

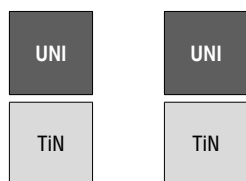
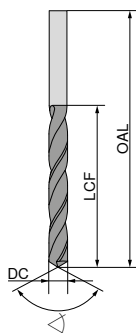
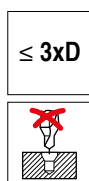
# Сверление и обработка отверстий

## Технические характеристики

### По вопросам продаж и поддержки обращайтесь:

|                             |                                 |                                |                           |
|-----------------------------|---------------------------------|--------------------------------|---------------------------|
| Алматы (7273)495-231        | Казань (843)206-01-48           | Новокузнецк (3843)20-46-81     | Смоленск (4812)29-41-54   |
| Архангельск (8182)63-90-72  | Калининград (4012)72-03-81      | Новосибирск (383)227-86-73     | Сочи (862)225-72-31       |
| Астрахань (8512)99-46-04    | Калуга (4842)92-23-67           | Омск (3812)21-46-40            | Ставрополь (8652)20-65-13 |
| Барнаул (3852)73-04-60      | Кемерово (3842)65-04-62         | Орел (4862)44-53-42            | Сургут (3462)77-98-35     |
| Белгород (4722)40-23-64     | Киров (8332)68-02-04            | Оренбург (3532)37-68-04        | Тверь (4822)63-31-35      |
| Брянск (4832)59-03-52       | Краснодар (861)203-40-90        | Пенза (8412)22-31-16           | Томск (3822)98-41-53      |
| Владивосток (423)249-28-31  | Красноярск (391)204-63-61       | Пермь (342)205-81-47           | Тула (4872)74-02-29       |
| Волгоград (844)278-03-48    | Курск (4712)77-13-04            | Ростов-на-Дону (863)308-18-15  | Тюмень (3452)66-21-18     |
| Вологда (8172)26-41-59      | Липецк (4742)52-20-81           | Рязань (4912)46-61-64          | Ульяновск (8422)24-23-59  |
| Воронеж (473)204-51-73      | Магнитогорск (3519)55-03-13     | Самара (846)206-03-16          | Уфа (347)229-48-12        |
| Екатеринбург (343)384-55-89 | Москва (495)268-04-70           | Санкт-Петербург (812)309-46-40 | Хабаровск (4212)92-98-04  |
| Иваново (4932)77-34-06      | Мурманск (8152)59-64-93         | Саратов (845)249-38-78         | Челябинск (351)202-03-61  |
| Ижевск (3412)26-03-58       | Набережные Челны (8552)20-53-41 | Севастополь (8692)22-31-93     | Череповец (8202)49-02-64  |
| Иркутск (395)279-98-46      | Нижний Новгород (831)429-08-12  | Симферополь (3652)67-13-56     | Ярославль (4852)69-52-93  |
| Россия (495)268-04-70       | Киргизия (996)312-96-26-47      | Казахстан (7172)727-132        |                           |

## Спиральное сверло DIN 1897, сверхкороткое исполнение



118°  
HSS-E

130°  
HSS-E-PM

| DC <sub>h8</sub><br>mm | DC<br>дюйм | OAL<br>mm | LCF<br>mm | 10 107 ...        | 10 113 ...        |
|------------------------|------------|-----------|-----------|-------------------|-------------------|
| 1,00                   |            | 26        | 6         | 010 <sup>1)</sup> | 010 <sup>1)</sup> |
| 1,10                   |            | 28        | 7         | 011 <sup>1)</sup> | 011 <sup>1)</sup> |
| 1,20                   |            | 30        | 8         | 012 <sup>1)</sup> | 012 <sup>1)</sup> |
| 1,30                   |            | 30        | 8         | 013 <sup>1)</sup> | 013 <sup>1)</sup> |
| 1,40                   |            | 32        | 9         | 014 <sup>1)</sup> | 014 <sup>1)</sup> |
| 1,50                   |            | 32        | 9         | 015 <sup>1)</sup> | 015 <sup>1)</sup> |
| 1,60                   |            | 34        | 10        | 016 <sup>1)</sup> | 016 <sup>1)</sup> |
| 1,70                   |            | 34        | 10        | 017 <sup>1)</sup> | 017 <sup>1)</sup> |
| 1,80                   |            | 36        | 11        | 018 <sup>1)</sup> | 018 <sup>1)</sup> |
| 1,90                   |            | 36        | 11        | 019 <sup>1)</sup> | 019 <sup>1)</sup> |
| 2,00                   |            | 38        | 12        | 020 <sup>1)</sup> | 020 <sup>1)</sup> |
| 2,10                   |            | 38        | 12        | 021 <sup>1)</sup> | 021 <sup>1)</sup> |
| 2,20                   |            | 40        | 13        | 022 <sup>1)</sup> | 022 <sup>1)</sup> |
| 2,30                   |            | 40        | 13        | 023 <sup>1)</sup> | 023 <sup>1)</sup> |
| 2,38                   | 3/32       | 43        | 14        | 238 <sup>1)</sup> | 238 <sup>1)</sup> |
| 2,40                   |            | 43        | 14        | 024 <sup>1)</sup> | 024 <sup>1)</sup> |
| 2,50                   |            | 43        | 14        | 025 <sup>1)</sup> | 025 <sup>1)</sup> |
| 2,60                   |            | 43        | 14        | 026 <sup>1)</sup> | 026 <sup>1)</sup> |
| 2,70                   |            | 46        | 16        | 027 <sup>1)</sup> | 027 <sup>1)</sup> |
| 2,78                   | 7/64       | 46        | 16        | 278 <sup>1)</sup> | 278 <sup>1)</sup> |
| 2,80                   |            | 46        | 16        | 028 <sup>1)</sup> | 028 <sup>1)</sup> |
| 2,90                   |            | 46        | 16        | 029 <sup>1)</sup> | 029 <sup>1)</sup> |
| 3,00                   |            | 46        | 16        | 030 <sup>1)</sup> | 030 <sup>1)</sup> |
| 3,10                   |            | 49        | 18        | 031 <sup>1)</sup> | 031 <sup>1)</sup> |
| 3,17                   | 1/8        | 49        | 18        | 317 <sup>1)</sup> | 317 <sup>1)</sup> |
| 3,20                   |            | 49        | 18        | 032 <sup>1)</sup> | 032 <sup>1)</sup> |
| 3,30                   |            | 49        | 18        | 033 <sup>1)</sup> | 033 <sup>1)</sup> |
| 3,40                   |            | 52        | 20        | 034 <sup>1)</sup> | 034 <sup>1)</sup> |
| 3,50                   |            | 52        | 20        | 035 <sup>1)</sup> | 035 <sup>1)</sup> |
| 3,57                   | 9/64       | 52        | 20        | 357 <sup>1)</sup> | 357 <sup>1)</sup> |
| 3,60                   |            | 52        | 20        | 036 <sup>1)</sup> | 036 <sup>1)</sup> |
| 3,70                   |            | 52        | 20        | 037 <sup>1)</sup> | 037 <sup>1)</sup> |
| 3,80                   |            | 55        | 22        | 038 <sup>1)</sup> | 038 <sup>1)</sup> |
| 3,90                   |            | 55        | 22        | 039 <sup>1)</sup> | 039 <sup>1)</sup> |
| 3,97                   | 5/32       | 55        | 22        | 397 <sup>1)</sup> | 397 <sup>1)</sup> |
| 4,00                   |            | 55        | 22        | 040 <sup>1)</sup> | 040 <sup>1)</sup> |
| 4,10                   |            | 55        | 22        | 041 <sup>1)</sup> | 041 <sup>1)</sup> |
| 4,20                   |            | 55        | 22        | 042 <sup>1)</sup> | 042 <sup>1)</sup> |
| 4,30                   |            | 58        | 24        | 043 <sup>1)</sup> | 043 <sup>1)</sup> |
| 4,37                   | 11/64      | 58        | 24        | 437 <sup>1)</sup> | 437 <sup>1)</sup> |
| 4,40                   |            | 58        | 24        | 044 <sup>1)</sup> | 044 <sup>1)</sup> |
| 4,50                   |            | 58        | 24        | 045 <sup>1)</sup> | 045 <sup>1)</sup> |
| 4,60                   |            | 58        | 24        | 046 <sup>1)</sup> | 046 <sup>1)</sup> |
| 4,70                   |            | 58        | 24        | 047 <sup>1)</sup> | 047 <sup>1)</sup> |
| 4,76                   | 3/16       | 62        | 26        | 476 <sup>1)</sup> | 476 <sup>1)</sup> |
| 4,80                   |            | 62        | 26        | 048 <sup>1)</sup> | 048 <sup>1)</sup> |
| 4,90                   |            | 62        | 26        | 049 <sup>1)</sup> | 049 <sup>1)</sup> |
| 5,00                   |            | 62        | 26        | 050 <sup>1)</sup> | 050 <sup>1)</sup> |
| 5,10                   |            | 62        | 26        | 051 <sup>1)</sup> | 051 <sup>1)</sup> |
| 5,16                   | 13/64      | 62        | 26        | 516 <sup>1)</sup> | 516 <sup>1)</sup> |
| 5,20                   |            | 62        | 26        | 052 <sup>1)</sup> | 052 <sup>1)</sup> |
| 5,30                   |            | 62        | 26        | 053 <sup>1)</sup> | 053 <sup>1)</sup> |
| 5,40                   |            | 66        | 28        | 054 <sup>1)</sup> | 054 <sup>1)</sup> |
| 5,50                   |            | 66        | 28        | 055 <sup>1)</sup> | 055 <sup>1)</sup> |
| 5,56                   | 7/32       | 66        | 28        | 556 <sup>1)</sup> | 556 <sup>1)</sup> |

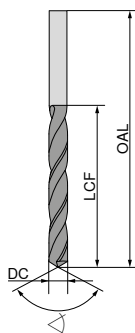
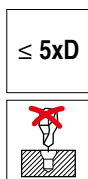
| DC <sub>h8</sub><br>mm | DC<br>дюйм | OAL<br>mm | LCF<br>mm | 10 107 ...        | 10 113 ...        |
|------------------------|------------|-----------|-----------|-------------------|-------------------|
| 5,60                   |            | 66        | 28        | 056 <sup>1)</sup> | 056 <sup>1)</sup> |
| 5,70                   |            | 66        | 28        | 057 <sup>1)</sup> | 057 <sup>1)</sup> |
| 5,80                   |            | 66        | 28        | 058 <sup>1)</sup> | 058 <sup>1)</sup> |
| 5,90                   |            | 66        | 28        | 059 <sup>1)</sup> | 059 <sup>1)</sup> |
| 5,95                   | 15/64      | 66        | 28        | 595 <sup>1)</sup> | 595 <sup>1)</sup> |
| 6,00                   |            | 66        | 28        | 060 <sup>1)</sup> | 060 <sup>1)</sup> |
| 6,10                   |            | 70        | 31        | 061 <sup>1)</sup> | 061 <sup>1)</sup> |
| 6,20                   |            | 70        | 31        | 062 <sup>1)</sup> | 062 <sup>1)</sup> |
| 6,30                   |            | 70        | 31        | 063 <sup>1)</sup> | 063 <sup>1)</sup> |
| 6,35                   | 1/4        | 70        | 31        | 635 <sup>1)</sup> | 635 <sup>1)</sup> |
| 6,40                   |            | 70        | 31        | 064 <sup>1)</sup> | 064 <sup>1)</sup> |
| 6,50                   |            | 70        | 31        | 065 <sup>1)</sup> | 065 <sup>1)</sup> |
| 6,60                   |            | 70        | 31        | 066 <sup>1)</sup> | 066 <sup>1)</sup> |
| 6,70                   |            | 70        | 31        | 067 <sup>1)</sup> | 067 <sup>1)</sup> |
| 6,75                   |            | 74        | 34        | 675 <sup>1)</sup> | 675 <sup>1)</sup> |
| 6,80                   |            | 74        | 34        | 068 <sup>1)</sup> | 068 <sup>1)</sup> |
| 6,90                   |            | 74        | 34        | 069 <sup>1)</sup> | 069 <sup>1)</sup> |
| 7,00                   |            | 74        | 34        | 070 <sup>1)</sup> | 070 <sup>1)</sup> |
| 7,10                   |            | 74        | 34        | 071 <sup>1)</sup> | 071 <sup>1)</sup> |
| 7,14                   | 9/32       | 74        | 34        | 714 <sup>1)</sup> | 714 <sup>1)</sup> |
| 7,20                   |            | 74        | 34        | 072 <sup>1)</sup> | 072 <sup>1)</sup> |
| 7,30                   |            | 74        | 34        | 073 <sup>1)</sup> | 073 <sup>1)</sup> |
| 7,40                   |            | 74        | 34        | 074 <sup>1)</sup> | 074 <sup>1)</sup> |
| 7,50                   |            | 74        | 34        | 075 <sup>1)</sup> | 075 <sup>1)</sup> |
| 7,60                   |            | 79        | 37        | 076 <sup>1)</sup> | 076 <sup>1)</sup> |
| 7,70                   |            | 79        | 37        | 077 <sup>1)</sup> | 077 <sup>1)</sup> |
| 7,80                   |            | 79        | 37        | 078 <sup>1)</sup> | 078 <sup>1)</sup> |
| 7,90                   |            | 79        | 37        | 079 <sup>1)</sup> | 079 <sup>1)</sup> |
| 7,94                   | 5/16       | 79        | 37        | 794 <sup>1)</sup> | 794 <sup>1)</sup> |
| 8,00                   |            | 79        | 37        | 080 <sup>1)</sup> | 080 <sup>1)</sup> |
| 8,10                   |            | 79        | 37        | 081 <sup>1)</sup> | 081 <sup>1)</sup> |
| 8,20                   |            | 79        | 37        | 082 <sup>1)</sup> | 082 <sup>1)</sup> |
| 8,30                   |            | 79        | 37        | 083 <sup>1)</sup> | 083 <sup>1)</sup> |
| 8,40                   |            | 79        | 37        | 084 <sup>1)</sup> | 084 <sup>1)</sup> |
| 8,50                   |            | 79        | 37        | 085 <sup>1)</sup> | 085 <sup>1)</sup> |
| 8,60                   |            | 84        | 40        | 086 <sup>1)</sup> |                   |
| 8,70                   |            | 84        | 40        | 087 <sup>1)</sup> |                   |
| 8,73                   | 11/32      | 84        | 40        | 873 <sup>1)</sup> | 873 <sup>1)</sup> |
| 8,80                   |            | 84        | 40        | 088 <sup>1)</sup> | 088 <sup>1)</sup> |
| 8,90                   |            | 84        | 40        | 089 <sup>1)</sup> |                   |
| 9,00                   |            | 84        | 40        | 090 <sup>1)</sup> | 090 <sup>1)</sup> |
| 9,10                   |            | 84        | 40        | 091 <sup>1)</sup> |                   |
| 9,20                   |            | 84        | 40        | 092 <sup>1)</sup> |                   |
| 9,30                   |            | 84        | 40        | 093 <sup>1)</sup> | 093 <sup>1)</sup> |
| 9,40                   |            | 84        | 40        | 094 <sup>1)</sup> |                   |
| 9,50                   |            | 84        | 40        | 095 <sup>1)</sup> | 095 <sup>1)</sup> |
| 9,60                   |            | 89        | 43        | 096 <sup>1)</sup> |                   |
| 9,70                   |            | 89        | 43        | 097 <sup>1)</sup> |                   |
| 9,80                   |            | 89        | 43        | 098 <sup>1)</sup> | 098 <sup>1)</sup> |
| 9,90                   |            | 89        | 43        | 099 <sup>1)</sup> |                   |
| 10,00                  |            | 89        | 43        | 100 <sup>1)</sup> | 100 <sup>1)</sup> |
| 10,10                  |            | 89        | 43        | 101 <sup>1)</sup> |                   |
| 10,20                  |            | 89        | 43        | 102 <sup>1)</sup> | 102 <sup>1)</sup> |
| 10,30                  |            | 89        | 43        | 103 <sup>1)</sup> |                   |
| 10,40                  |            | 89        | 43        | 104 <sup>1)</sup> |                   |
| 10,50                  |            | 89        | 43        | 105 <sup>1)</sup> | 105 <sup>1)</sup> |
| 11,00                  |            | 95        | 47        | 110 <sup>1)</sup> | 110 <sup>1)</sup> |
| 11,11                  | 7/16       | 95        | 47        | 111 <sup>1)</sup> | 111 <sup>1)</sup> |
| 11,50                  |            | 95        | 47        | 115 <sup>1)</sup> | 115 <sup>1)</sup> |
| 12,00                  |            | 102       | 51        | 120 <sup>1)</sup> | 120 <sup>1)</sup> |

|   |   |   |
|---|---|---|
| P | ● | ● |
| M | ● |   |
| K | ● | ● |
| N | ○ | ○ |
| S | ○ | ○ |
| H |   | ○ |
| O | ○ | ○ |

1) С самоцентрированием

→ v<sub>c</sub> стр. 11

## Спиральное сверло DIN 338, короткое исполнение



118°  
HSS-E

10 171 ...



130°  
HSS-E-PM

10 173 ...

| DC <sub>h8</sub><br>mm | DC<br>дюйм | OAL<br>mm | LCF<br>mm | 10 171 ...        | 10 173 ...        |
|------------------------|------------|-----------|-----------|-------------------|-------------------|
| 0,90                   |            | 32        | 11        | 009 <sup>1)</sup> |                   |
| 1,00                   |            | 34        | 12        | 010 <sup>1)</sup> | 010 <sup>1)</sup> |
| 1,10                   |            | 36        | 14        | 011 <sup>1)</sup> | 011 <sup>1)</sup> |
| 1,20                   |            | 38        | 16        | 012 <sup>1)</sup> | 012 <sup>1)</sup> |
| 1,25                   |            | 38        | 16        | 125 <sup>1)</sup> |                   |
| 1,30                   |            | 38        | 16        | 013 <sup>1)</sup> | 013 <sup>1)</sup> |
| 1,40                   |            | 40        | 18        | 014 <sup>1)</sup> | 014 <sup>1)</sup> |
| 1,45                   |            | 40        | 18        | 145 <sup>1)</sup> |                   |
| 1,50                   |            | 40        | 18        | 015 <sup>1)</sup> | 015 <sup>1)</sup> |
| 1,55                   |            | 43        | 20        | 155 <sup>1)</sup> |                   |
| 1,60                   |            | 43        | 20        | 016 <sup>1)</sup> | 016 <sup>1)</sup> |
| 1,65                   |            | 43        | 20        | 165 <sup>1)</sup> |                   |
| 1,70                   |            | 43        | 20        | 017 <sup>1)</sup> | 017 <sup>1)</sup> |
| 1,80                   |            | 46        | 22        | 018 <sup>1)</sup> | 018 <sup>1)</sup> |
| 1,90                   |            | 46        | 22        | 019 <sup>1)</sup> | 019 <sup>1)</sup> |
| 2,00                   |            | 49        | 24        | 020 <sup>1)</sup> | 020 <sup>1)</sup> |
| 2,10                   |            | 49        | 24        | 021 <sup>1)</sup> | 021 <sup>1)</sup> |
| 2,20                   |            | 53        | 27        | 022 <sup>1)</sup> | 022 <sup>1)</sup> |
| 2,30                   |            | 53        | 27        | 023 <sup>1)</sup> | 023 <sup>1)</sup> |
| 2,38                   | 3/32       | 57        | 30        | 238 <sup>1)</sup> | 238 <sup>1)</sup> |
| 2,40                   |            | 57        | 30        | 024 <sup>1)</sup> | 024 <sup>1)</sup> |
| 2,50                   |            | 57        | 30        | 025 <sup>1)</sup> | 025 <sup>1)</sup> |
| 2,55                   |            | 57        | 30        | 255 <sup>1)</sup> |                   |
| 2,60                   |            | 57        | 30        | 026 <sup>1)</sup> | 026 <sup>1)</sup> |
| 2,70                   |            | 61        | 33        | 027 <sup>1)</sup> | 027 <sup>1)</sup> |
| 2,78                   | 7/64       | 61        | 33        | 278 <sup>1)</sup> | 278 <sup>1)</sup> |
| 2,80                   |            | 61        | 33        | 028 <sup>1)</sup> | 028 <sup>1)</sup> |
| 2,90                   |            | 61        | 33        | 029 <sup>1)</sup> | 029 <sup>1)</sup> |
| 3,00                   |            | 61        | 33        | 030 <sup>1)</sup> | 030 <sup>1)</sup> |
| 3,10                   |            | 65        | 36        | 031 <sup>1)</sup> | 031 <sup>1)</sup> |
| 3,17                   | 1/8        | 65        | 36        | 317 <sup>1)</sup> | 317 <sup>1)</sup> |
| 3,20                   |            | 65        | 36        | 032 <sup>1)</sup> | 032 <sup>1)</sup> |
| 3,25                   |            | 65        | 36        | 325 <sup>1)</sup> |                   |
| 3,30                   |            | 65        | 36        | 033 <sup>1)</sup> | 033 <sup>1)</sup> |
| 3,40                   |            | 70        | 39        | 034 <sup>1)</sup> | 034 <sup>1)</sup> |
| 3,50                   |            | 70        | 39        | 035 <sup>1)</sup> | 035 <sup>1)</sup> |
| 3,57                   | 9/64       | 70        | 39        | 357 <sup>1)</sup> | 357 <sup>1)</sup> |
| 3,60                   |            | 70        | 39        | 036 <sup>1)</sup> | 036 <sup>1)</sup> |
| 3,70                   |            | 70        | 39        | 037 <sup>1)</sup> | 037 <sup>1)</sup> |
| 3,80                   |            | 75        | 43        | 038 <sup>1)</sup> | 038 <sup>1)</sup> |
| 3,90                   |            | 75        | 43        | 039 <sup>1)</sup> | 039 <sup>1)</sup> |
| 3,97                   | 5/32       | 75        | 43        | 397 <sup>1)</sup> | 397 <sup>1)</sup> |
| 4,00                   |            | 75        | 43        | 040 <sup>1)</sup> | 040 <sup>1)</sup> |
| 4,10                   |            | 75        | 43        | 041 <sup>1)</sup> | 041 <sup>1)</sup> |
| 4,20                   |            | 75        | 43        | 042 <sup>1)</sup> | 042 <sup>1)</sup> |
| 4,25                   |            | 75        | 43        | 425 <sup>1)</sup> |                   |
| 4,30                   |            | 80        | 47        | 043 <sup>1)</sup> | 043 <sup>1)</sup> |
| 4,37                   | 11/64      | 80        | 47        | 437 <sup>1)</sup> | 437 <sup>1)</sup> |
| 4,40                   |            | 80        | 47        | 044 <sup>1)</sup> | 044 <sup>1)</sup> |
| 4,50                   |            | 80        | 47        | 045 <sup>1)</sup> | 045 <sup>1)</sup> |
| 4,60                   |            | 80        | 47        | 046 <sup>1)</sup> | 046 <sup>1)</sup> |
| 4,65                   |            | 80        | 47        | 465 <sup>1)</sup> |                   |
| 4,70                   |            | 80        | 47        | 047 <sup>1)</sup> | 047 <sup>1)</sup> |
| 4,76                   | 3/16       | 86        | 52        | 476 <sup>1)</sup> | 476 <sup>1)</sup> |
| 4,80                   |            | 86        | 52        | 048 <sup>1)</sup> | 048 <sup>1)</sup> |
| 4,90                   |            | 86        | 52        | 049 <sup>1)</sup> | 049 <sup>1)</sup> |
| 4,95                   |            | 86        | 52        | 495 <sup>1)</sup> |                   |
| 5,00                   |            | 86        | 52        | 050 <sup>1)</sup> | 050 <sup>1)</sup> |
| 5,05                   |            | 86        | 52        | 505 <sup>1)</sup> |                   |
| 5,10                   |            | 86        | 52        | 051 <sup>1)</sup> | 051 <sup>1)</sup> |
| 5,16                   | 13/64      | 86        | 52        | 516 <sup>1)</sup> | 516 <sup>1)</sup> |

| DC <sub>h8</sub><br>mm | DC<br>дюйм | OAL<br>mm | LCF<br>mm |
|------------------------|------------|-----------|-----------|
| 5,20                   |            | 86        | 52        |
| 5,30                   |            | 86        | 52        |
| 5,40                   |            | 93        | 57        |
| 5,50                   |            | 93        | 57        |
| 5,55                   |            | 93        | 57        |
| 5,56                   | 7/32       | 93        | 57        |
| 5,60                   |            | 93        | 57        |
| 5,70                   |            | 93        | 57        |
| 5,75                   |            | 93        | 57        |
| 5,80                   |            | 93        | 57        |
| 5,90                   |            | 93        | 57        |
| 5,95                   | 15/64      | 93        | 57        |
| 6,00                   |            | 93        | 57        |
| 6,10                   |            | 101       | 63        |
| 6,20                   |            | 101       | 63        |
| 6,30                   |            | 101       | 63        |
| 6,35                   | 1/4        | 101       | 63        |
| 6,40                   |            | 101       | 63        |
| 6,50                   |            | 101       | 63        |
| 6,60                   |            | 101       | 63        |
| 6,70                   |            | 101       | 63        |
| 6,75                   |            | 109       | 69        |
| 6,80                   |            | 109       | 69        |
| 6,90                   |            | 109       | 69        |
| 7,00                   |            | 109       | 69        |
| 7,10                   |            | 109       | 69        |
| 7,14                   | 9/32       | 109       | 69        |
| 7,20                   |            | 109       | 69        |
| 7,30                   |            | 109       | 69        |
| 7,40                   |            | 109       | 69        |
| 7,45                   |            | 109       | 69        |
| 7,50                   |            | 109       | 69        |
| 7,60                   |            | 117       | 75        |
| 7,70                   |            | 117       | 75        |
| 7,80                   |            | 117       | 75        |
| 7,90                   |            | 117       | 75        |
| 7,94                   | 5/16       | 117       | 75        |
| 8,00                   |            | 117       | 75        |
| 8,10                   |            | 117       | 75        |
| 8,20                   |            | 117       | 75        |
| 8,30                   |            | 117       | 75        |
| 8,40                   |            | 117       | 75        |
| 8,50                   |            | 117       | 75        |
| 8,60                   |            | 125       | 81        |
| 8,70                   |            | 125       | 81        |
| 8,73                   | 11/32      | 125       | 81        |
| 8,80                   |            | 125       | 81        |
| 8,90                   |            | 125       | 81        |
| 9,00                   |            | 125       | 81        |
| 9,10                   |            | 125       | 81        |
| 9,20                   |            | 125       | 81        |
| 9,30                   |            | 125       | 81        |
| 9,35                   |            | 125       | 81        |
| 9,40                   |            | 125       | 81        |
| 9,50                   |            | 125       | 81        |
| 9,60                   |            | 133       | 87        |
| 9,70                   |            | 133       | 87        |
| 9,80                   |            | 133       | 87        |
| 9,90                   |            | 133       | 87        |
| 10,00                  |            | 133       | 87        |
| 10,10                  |            | 133       | 87        |
| 10,20                  |            | 133       | 87        |
| 10,30                  |            | 133       | 87        |
| 10,40                  |            | 133       | 87        |
| 10,50                  |            | 133       | 87        |
| 10,55                  |            | 133       | 87        |
| 11,00                  |            | 142       | 94        |
| 11,11                  | 7/16       | 142       | 94        |
| 11,20                  |            | 142       | 94        |
| 11,30                  |            | 142       | 94        |
| 11,40                  |            | 142       | 94        |
| 11,50                  |            | 142       | 94        |
| 11,60                  |            | 142       | 94        |
| 12,00                  |            | 151       | 101       |

10 171 ...

10 173 ...

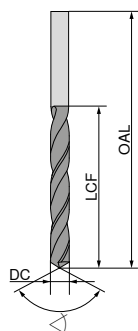
|   |   |   |
|---|---|---|
| P | ● | ● |
| M | ● |   |
| K | ● | ● |
| N | ○ | ○ |
| S | ○ | ○ |
| H |   | ○ |
| O | ○ | ○ |

1) С самоцентрированием

→ v<sub>c</sub> стр. 11

## Спиральное сверло DIN 340, длинное исполнение

≤ 10xD



UNI

TiN

118°  
HSS-E

10 270 ...

| DC <sub>h8</sub><br>mm | OAL<br>mm | LCF<br>mm |     |
|------------------------|-----------|-----------|-----|
| 1,0                    | 56        | 33        | 010 |
| 1,1                    | 60        | 37        | 011 |
| 1,2                    | 65        | 41        | 012 |
| 1,3                    | 65        | 41        | 013 |
| 1,4                    | 70        | 45        | 014 |
| 1,5                    | 70        | 45        | 015 |
| 1,6                    | 76        | 50        | 016 |
| 1,7                    | 76        | 50        | 017 |
| 1,8                    | 80        | 53        | 018 |
| 1,9                    | 80        | 53        | 019 |
| 2,0                    | 85        | 56        | 020 |
| 2,1                    | 85        | 56        | 021 |
| 2,2                    | 90        | 59        | 022 |
| 2,3                    | 90        | 59        | 023 |
| 2,4                    | 95        | 62        | 024 |
| 2,5                    | 95        | 62        | 025 |
| 2,6                    | 95        | 62        | 026 |
| 2,7                    | 100       | 66        | 027 |
| 2,8                    | 100       | 66        | 028 |
| 2,9                    | 100       | 66        | 029 |
| 3,0                    | 100       | 66        | 030 |
| 3,1                    | 106       | 69        | 031 |
| 3,2                    | 106       | 69        | 032 |
| 3,3                    | 106       | 69        | 033 |
| 3,4                    | 112       | 73        | 034 |
| 3,5                    | 112       | 73        | 035 |
| 3,6                    | 112       | 73        | 036 |
| 3,7                    | 112       | 73        | 037 |
| 3,8                    | 119       | 78        | 038 |
| 3,9                    | 119       | 78        | 039 |
| 4,0                    | 119       | 78        | 040 |
| 4,1                    | 119       | 78        | 041 |
| 4,2                    | 119       | 78        | 042 |
| 4,3                    | 126       | 82        | 043 |
| 4,4                    | 126       | 82        | 044 |
| 4,5                    | 126       | 82        | 045 |
| 4,6                    | 126       | 82        | 046 |
| 4,7                    | 126       | 82        | 047 |
| 4,8                    | 132       | 87        | 048 |
| 4,9                    | 132       | 87        | 049 |
| 5,0                    | 132       | 87        | 050 |
| 5,1                    | 132       | 87        | 051 |
| 5,2                    | 132       | 87        | 052 |
| 5,3                    | 132       | 87        | 053 |
| 5,4                    | 139       | 91        | 054 |
| 5,5                    | 139       | 91        | 055 |
| 5,6                    | 139       | 91        | 056 |
| 5,7                    | 139       | 91        | 057 |
| 5,8                    | 139       | 91        | 058 |
| 5,9                    | 139       | 91        | 059 |
| 6,0                    | 139       | 91        | 060 |
| 6,1                    | 148       | 97        | 061 |
| 6,2                    | 148       | 97        | 062 |
| 6,3                    | 148       | 97        | 063 |
| 6,4                    | 148       | 97        | 064 |
| 6,5                    | 148       | 97        | 065 |
| 6,6                    | 148       | 97        | 066 |
| 6,7                    | 148       | 97        | 067 |
| 6,8                    | 156       | 102       | 068 |
| 6,9                    | 156       | 102       | 069 |
| 7,0                    | 156       | 102       | 070 |
| 7,1                    | 156       | 102       | 071 |

10 270 ...

| DC <sub>h8</sub><br>mm | OAL<br>mm | LCF<br>mm |     |
|------------------------|-----------|-----------|-----|
| 7,2                    | 156       | 102       | 072 |
| 7,3                    | 156       | 102       | 073 |
| 7,4                    | 156       | 102       | 074 |
| 7,5                    | 156       | 102       | 075 |
| 7,6                    | 165       | 109       | 076 |
| 7,7                    | 165       | 109       | 077 |
| 7,8                    | 165       | 109       | 078 |
| 7,9                    | 165       | 109       | 079 |
| 8,0                    | 165       | 109       | 080 |
| 8,1                    | 165       | 109       | 081 |
| 8,2                    | 165       | 109       | 082 |
| 8,3                    | 165       | 109       | 083 |
| 8,4                    | 165       | 109       | 084 |
| 8,5                    | 165       | 109       | 085 |
| 8,6                    | 175       | 115       | 086 |
| 8,7                    | 175       | 115       | 087 |
| 8,8                    | 175       | 115       | 088 |
| 8,9                    | 175       | 115       | 089 |
| 9,0                    | 175       | 115       | 090 |
| 9,1                    | 175       | 115       | 091 |
| 9,2                    | 175       | 115       | 092 |
| 9,3                    | 175       | 115       | 093 |
| 9,4                    | 175       | 115       | 094 |
| 9,5                    | 175       | 115       | 095 |
| 9,6                    | 184       | 121       | 096 |
| 9,7                    | 184       | 121       | 097 |
| 9,8                    | 184       | 121       | 098 |
| 9,9                    | 184       | 121       | 099 |
| 10,0                   | 184       | 121       | 100 |
| 10,1                   | 184       | 121       | 101 |
| 10,2                   | 184       | 121       | 102 |
| 10,3                   | 184       | 121       | 103 |
| 10,4                   | 184       | 121       | 104 |
| 10,5                   | 184       | 121       | 105 |
| 11,0                   | 195       | 128       | 110 |
| 11,5                   | 195       | 128       | 115 |
| 12,0                   | 205       | 134       | 120 |

|   |   |
|---|---|
| P | ● |
| M | ● |
| K | ● |
| N | ○ |
| S | ○ |
| H |   |
| O | ○ |

→ v<sub>c</sub> стр. 11

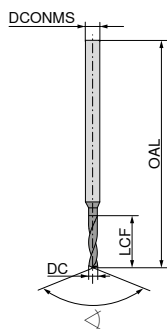


## Миниатюрное сверло DIN 1899

- ▲ Заточка по 4-м плоскостям
- ▲ С усиленным хвостовиком

## Комплект поставки:

- ▲ 5 шт. в упаковке
- ▲ Цена за шт.



118°  
HSS-E-PM

10 103 ...

| DC <sub>-0,004</sub><br>mm | OAL<br>mm | LCF<br>mm | DCONMS <sub>h8</sub><br>mm |       |
|----------------------------|-----------|-----------|----------------------------|-------|
| 0,15                       | 25        | 0,8       | 1,0                        | 00150 |
| 0,20                       | 25        | 1,5       | 1,0                        | 00200 |
| 0,25                       | 25        | 1,9       | 1,0                        | 00250 |
| 0,30                       | 25        | 1,9       | 1,0                        | 00300 |
| 0,35                       | 25        | 2,4       | 1,0                        | 00350 |
| 0,40                       | 25        | 3,0       | 1,0                        | 00400 |
| 0,45                       | 25        | 3,0       | 1,0                        | 00450 |
| 0,50                       | 25        | 3,4       | 1,0                        | 00500 |
| 0,55                       | 25        | 3,9       | 1,0                        | 00550 |
| 0,60                       | 25        | 3,9       | 1,0                        | 00600 |
| 0,65                       | 25        | 4,2       | 1,0                        | 00650 |
| 0,70                       | 25        | 4,8       | 1,0                        | 00700 |
| 0,75                       | 25        | 4,8       | 1,0                        | 00750 |
| 0,80                       | 25        | 5,3       | 1,5                        | 00800 |
| 0,85                       | 25        | 5,3       | 1,5                        | 00850 |
| 0,90                       | 25        | 6,0       | 1,5                        | 00900 |
| 0,95                       | 25        | 6,0       | 1,5                        | 00950 |
| 1,00                       | 25        | 6,8       | 1,5                        | 01000 |
| 1,05                       | 25        | 6,8       | 1,5                        | 01050 |
| 1,10                       | 25        | 7,6       | 1,5                        | 01100 |
| 1,15                       | 25        | 7,6       | 1,5                        | 01150 |
| 1,20                       | 25        | 8,5       | 1,5                        | 01200 |
| 1,25                       | 25        | 8,5       | 1,5                        | 01250 |
| 1,30                       | 25        | 8,5       | 1,5                        | 01300 |
| 1,35                       | 25        | 9,5       | 1,5                        | 01350 |
| 1,40                       | 25        | 9,5       | 1,5                        | 01400 |
| 1,45                       | 25        | 9,5       | 1,5                        | 01450 |

|   |   |
|---|---|
| P | ● |
| M | ○ |
| K | ○ |
| N | ● |
| S | ○ |
| H |   |
| O | ○ |

→ v<sub>c</sub> стр. 12

## Центровочное сверло NC, стандарт Ceratizit

- ▲ Спиральные канавки

NC-A

TiN



Прав.  
90°  
HSS

10 522 ...

NC-A

TiN

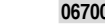
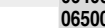
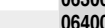
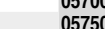
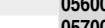
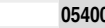
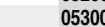
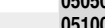
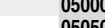
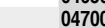
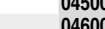
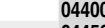
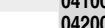
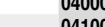
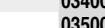
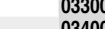
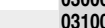
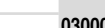
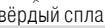
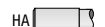
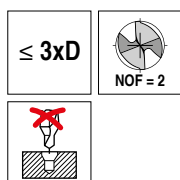


Лев.  
120°  
HSS

10 512 ...

| DC <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm |       |       |
|------------------------|-----------|-----------|-------|-------|
| 3                      | 46        | 12        | 030   | 030   |
| 4                      | 55        | 12        | 040   | 040   |
| 5                      | 62        | 14        | 050   | 050   |
| 6                      | 66        | 16        | 060   | 060   |
| 8                      | 79        | 21        | 080   | 080   |
| 10                     | 89        | 25        | 100   | 100   |
| 12                     | 102       | 30        | 120   | 120   |
| P                      |           |           | 25-55 | 25-55 |
| M                      |           |           | 20    | 20    |
| K                      |           |           | 30-55 | 30-55 |
| N                      |           |           | 65-85 | 65-85 |
| S                      |           |           |       |       |
| H                      |           |           |       |       |
| O                      |           |           |       |       |

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



11 777 ...

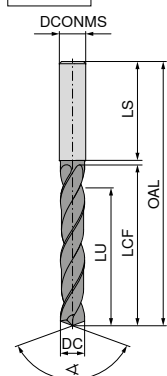
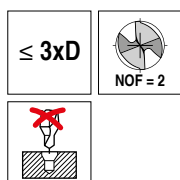
| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 3,00                   | 6                          | 62        | 20        | 14       | 36       | 03000 |
| 3,10                   | 6                          | 62        | 20        | 14       | 36       | 03100 |
| 3,15                   | 6                          | 62        | 20        | 14       | 36       | 03150 |
| 3,20                   | 6                          | 62        | 20        | 14       | 36       | 03200 |
| 3,22                   | 6                          | 62        | 20        | 14       | 36       | 03220 |
| 3,25                   | 6                          | 62        | 20        | 14       | 36       | 03250 |
| 3,30                   | 6                          | 62        | 20        | 14       | 36       | 03300 |
| 3,40                   | 6                          | 62        | 20        | 14       | 36       | 03400 |
| 3,50                   | 6                          | 62        | 20        | 14       | 36       | 03500 |
| 3,60                   | 6                          | 62        | 20        | 14       | 36       | 03600 |
| 3,70                   | 6                          | 62        | 20        | 14       | 36       | 03700 |
| 3,80                   | 6                          | 66        | 24        | 17       | 36       | 03800 |
| 3,85                   | 6                          | 66        | 24        | 17       | 36       | 03850 |
| 3,90                   | 6                          | 66        | 24        | 17       | 36       | 03900 |
| 4,00                   | 6                          | 66        | 24        | 17       | 36       | 04000 |
| 4,10                   | 6                          | 66        | 24        | 17       | 36       | 04100 |
| 4,20                   | 6                          | 66        | 24        | 17       | 36       | 04200 |
| 4,25                   | 6                          | 66        | 24        | 17       | 36       | 04250 |
| 4,30                   | 6                          | 66        | 24        | 17       | 36       | 04300 |
| 4,35                   | 6                          | 66        | 24        | 17       | 36       | 04350 |
| 4,40                   | 6                          | 66        | 24        | 17       | 36       | 04400 |
| 4,45                   | 6                          | 66        | 24        | 17       | 36       | 04450 |
| 4,50                   | 6                          | 66        | 24        | 17       | 36       | 04500 |
| 4,60                   | 6                          | 66        | 24        | 17       | 36       | 04600 |
| 4,65                   | 6                          | 66        | 24        | 17       | 36       | 04650 |
| 4,70                   | 6                          | 66        | 24        | 17       | 36       | 04700 |
| 4,80                   | 6                          | 66        | 28        | 20       | 36       | 04800 |
| 4,90                   | 6                          | 66        | 28        | 20       | 36       | 04900 |
| 4,95                   | 6                          | 66        | 28        | 20       | 36       | 04950 |
| 5,00                   | 6                          | 66        | 28        | 20       | 36       | 05000 |
| 5,05                   | 6                          | 66        | 28        | 20       | 36       | 05050 |
| 5,10                   | 6                          | 66        | 28        | 20       | 36       | 05100 |
| 5,20                   | 6                          | 66        | 28        | 20       | 36       | 05200 |
| 5,30                   | 6                          | 66        | 28        | 20       | 36       | 05300 |
| 5,40                   | 6                          | 66        | 28        | 20       | 36       | 05400 |
| 5,50                   | 6                          | 66        | 28        | 20       | 36       | 05500 |
| 5,55                   | 6                          | 66        | 28        | 20       | 36       | 05550 |
| 5,60                   | 6                          | 66        | 28        | 20       | 36       | 05600 |
| 5,70                   | 6                          | 66        | 28        | 20       | 36       | 05700 |
| 5,75                   | 6                          | 66        | 28        | 20       | 36       | 05750 |
| 5,80                   | 6                          | 66        | 28        | 20       | 36       | 05800 |
| 5,90                   | 6                          | 66        | 28        | 20       | 36       | 05900 |
| 5,95                   | 6                          | 66        | 28        | 20       | 36       | 05950 |
| 6,00                   | 6                          | 66        | 28        | 20       | 36       | 06000 |
| 6,10                   | 8                          | 79        | 34        | 24       | 36       | 06100 |
| 6,20                   | 8                          | 79        | 34        | 24       | 36       | 06200 |
| 6,30                   | 8                          | 79        | 34        | 24       | 36       | 06300 |
| 6,40                   | 8                          | 79        | 34        | 24       | 36       | 06400 |
| 6,50                   | 8                          | 79        | 34        | 24       | 36       | 06500 |
| 6,60                   | 8                          | 79        | 34        | 24       | 36       | 06600 |
| 6,70                   | 8                          | 79        | 34        | 24       | 36       | 06700 |

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 6,80                   | 8                          | 79        | 34        | 24       | 36       | 06800 |
| 6,90                   | 8                          | 79        | 34        | 24       | 36       | 06900 |
| 7,00                   | 8                          | 79        | 34        | 24       | 36       | 07000 |
| 7,10                   | 8                          | 79        | 41        | 29       | 36       | 07100 |
| 7,20                   | 8                          | 79        | 41        | 29       | 36       | 07200 |
| 7,30                   | 8                          | 79        | 41        | 29       | 36       | 07300 |
| 7,40                   | 8                          | 79        | 41        | 29       | 36       | 07400 |
| 7,45                   | 8                          | 79        | 41        | 29       | 36       | 07450 |
| 7,50                   | 8                          | 79        | 41        | 29       | 36       | 07500 |
| 7,60                   | 8                          | 79        | 41        | 29       | 36       | 07600 |
| 7,70                   | 8                          | 79        | 41        | 29       | 36       | 07700 |
| 7,80                   | 8                          | 79        | 41        | 29       | 36       | 07800 |
| 7,90                   | 8                          | 79        | 41        | 29       | 36       | 07900 |
| 8,00                   | 8                          | 79        | 41        | 29       | 36       | 08000 |
| 8,10                   | 10                         | 89        | 47        | 35       | 40       | 08100 |
| 8,20                   | 10                         | 89        | 47        | 35       | 40       | 08200 |
| 8,30                   | 10                         | 89        | 47        | 35       | 40       | 08300 |
| 8,40                   | 10                         | 89        | 47        | 35       | 40       | 08400 |
| 8,50                   | 10                         | 89        | 47        | 35       | 40       | 08500 |
| 8,60                   | 10                         | 89        | 47        | 35       | 40       | 08600 |
| 8,70                   | 10                         | 89        | 47        | 35       | 40       | 08700 |
| 8,80                   | 10                         | 89        | 47        | 35       | 40       | 08800 |
| 8,90                   | 10                         | 89        | 47        | 35       | 40       | 08900 |
| 9,00                   | 10                         | 89        | 47        | 35       | 40       | 09000 |
| 9,10                   | 10                         | 89        | 47        | 35       | 40       | 09100 |
| 9,20                   | 10                         | 89        | 47        | 35       | 40       | 09200 |
| 9,30                   | 10                         | 89        | 47        | 35       | 40       | 09300 |
| 9,35                   | 10                         | 89        | 47        | 35       | 40       | 09350 |
| 9,40                   | 10                         | 89        | 47        | 35       | 40       | 09400 |
| 9,45                   | 10                         | 89        | 47        | 35       | 40       | 09450 |
| 9,50                   | 10                         | 89        | 47        | 35       | 40       | 09500 |
| 9,60                   | 10                         | 89        | 47        | 35       | 40       | 09600 |
| 9,70                   | 10                         | 89        | 47        | 35       | 40       | 09700 |
| 9,80                   | 10                         | 89        | 47        | 35       | 40       | 09800 |
| 9,90                   | 10                         | 89        | 47        | 35       | 40       | 09900 |
| 10,00                  | 10                         | 89        | 47        | 35       | 40       | 10000 |
| 10,10                  | 12                         | 102       | 55        | 40       | 45       | 10100 |
| 10,20                  | 12                         | 102       | 55        | 40       | 45       | 10200 |
| 10,30                  | 12                         | 102       | 55        | 40       | 45       | 10300 |
| 10,40                  | 12                         | 102       | 55        | 40       | 45       | 10400 |
| 10,50                  | 12                         | 102       | 55        | 40       | 45       | 10500 |
| 10,55                  | 12                         | 102       | 55        | 40       | 45       | 10550 |
| 10,60                  | 12                         | 102       | 55        | 40       | 45       | 10600 |
| 10,70                  | 12                         | 102       | 55        | 40       | 45       | 10700 |
| 10,75                  | 12                         | 102       | 55        | 40       | 45       | 10750 |
| 10,80                  | 12                         | 102       | 55        | 40       | 45       | 10800 |
| 10,90                  | 12                         | 102       | 55        | 40       | 45       | 10900 |
| 11,00                  | 12                         | 102       | 55        | 40       | 45       | 11000 |
| 11,10                  | 12                         | 102       | 55        | 40       | 45       | 11100 |
| 11,20                  | 12                         | 102       | 55        | 40       | 45       | 11200 |
| 11,25                  | 12                         | 102       | 55        | 40       | 45       | 11250 |
| 11,30                  | 12                         | 102       | 55        | 40       | 45       | 11300 |
| 11,35                  | 12                         | 102       | 55        | 40       | 45       | 11350 |
| 11,40                  | 12                         | 102       | 55        | 40       | 45       | 11400 |
| 11,45                  | 12                         | 102       | 55        | 40       | 45       | 11450 |
| 11,50                  | 12                         | 102       | 55        | 40       | 45       | 11500 |
| 11,60                  | 12                         | 102       | 55        | 40       | 45       | 11600 |
| 11,70                  | 12                         | 102       | 55        | 40       | 45       | 11700 |
| 11,80                  | 12                         | 102       | 55        | 40       | 45       | 11800 |
| 11,90                  | 12                         | 102       | 55        | 40       | 45       | 11900 |
| 12,00                  | 12                         | 102       | 55        | 40       | 45       | 12000 |

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→ V<sub>c</sub> стр. 34Другие размеры и свёрла см. в нашем → **Общем каталоге,**  
гл. 2 «Твердосплавные свёрла»

## WPC – Высокопроизводительное твердосплавное сверло, DIN 6537



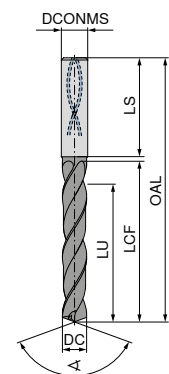
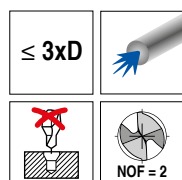
11 600 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 6,20                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 062 |
| 6,30                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 063 |
| 6,40                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 064 |
| 6,50                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 065 |
| 6,60                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 066 |
| 6,70                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 067 |
| 6,80                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 068 |
| 6,90                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 069 |
| 7,00                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 070 |
| 7,10                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 071 |
| 7,20                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 072 |
| 7,30                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 073 |
| 7,40                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 074 |
| 7,50                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 075 |
| 7,55                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 075 |
| 7,60                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 076 |
| 7,70                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 077 |
| 7,80                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 078 |
| 7,90                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 079 |
| 8,00                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 080 |
| 8,10                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 081 |
| 8,20                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 082 |
| 8,30                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 083 |
| 8,40                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 084 |
| 8,50                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 085 |
| 8,60                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 086 |
| 8,70                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 087 |
| 8,80                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 088 |
| 8,90                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 089 |
| 9,00                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 090 |
| 9,10                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 091 |
| 9,20                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 092 |
| 9,25                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 092 |
| 9,30                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 093 |
| 9,40                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 094 |
| 9,50                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 095 |
| 9,60                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 096 |
| 9,70                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 097 |
| 9,80                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 098 |
| 9,90                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 099 |
| 10,00                  | 10                         | 89        | 47,0      | 35,0     | 40,0     | 100 |
| 10,10                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 101 |
| 10,20                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 102 |
| 10,30                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 103 |
| 10,40                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 104 |
| 10,50                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 105 |
| 10,60                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 106 |
| 10,70                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 107 |
| 10,80                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 108 |
| 10,90                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 109 |
| 11,00                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 110 |
| 11,10                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 111 |
| 11,20                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 112 |
| 11,30                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 113 |
| 11,40                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 114 |
| 11,50                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 115 |
| 11,60                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 116 |
| 11,70                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 117 |
| 11,80                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 118 |
| 11,90                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 119 |
| 12,00                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 120 |

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→ v<sub>c</sub> стр. 40Другие размеры и сверла см. в нашем → **Общем каталоге,**  
гл. 2 «Твердосплавные сверла»

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



140°  
Твёрдый сплав  
11 780 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 3,00                   | 6                          | 62        | 20        | 14       | 36       | 03000 |
| 3,10                   | 6                          | 62        | 20        | 14       | 36       | 03100 |
| 3,15                   | 6                          | 62        | 20        | 14       | 36       | 03150 |
| 3,20                   | 6                          | 62        | 20        | 14       | 36       | 03200 |
| 3,22                   | 6                          | 62        | 20        | 14       | 36       | 03220 |
| 3,25                   | 6                          | 62        | 20        | 14       | 36       | 03250 |
| 3,30                   | 6                          | 62        | 20        | 14       | 36       | 03300 |
| 3,40                   | 6                          | 62        | 20        | 14       | 36       | 03400 |
| 3,50                   | 6                          | 62        | 20        | 14       | 36       | 03500 |
| 3,60                   | 6                          | 62        | 20        | 14       | 36       | 03600 |
| 3,70                   | 6                          | 62        | 20        | 14       | 36       | 03700 |
| 3,80                   | 6                          | 66        | 24        | 17       | 36       | 03800 |
| 3,85                   | 6                          | 66        | 24        | 17       | 36       | 03850 |
| 3,90                   | 6                          | 66        | 24        | 17       | 36       | 03900 |
| 4,00                   | 6                          | 66        | 24        | 17       | 36       | 04000 |
| 4,10                   | 6                          | 66        | 24        | 17       | 36       | 04100 |
| 4,20                   | 6                          | 66        | 24        | 17       | 36       | 04200 |
| 4,25                   | 6                          | 66        | 24        | 17       | 36       | 04250 |
| 4,30                   | 6                          | 66        | 24        | 17       | 36       | 04300 |
| 4,35                   | 6                          | 66        | 24        | 17       | 36       | 04350 |
| 4,40                   | 6                          | 66        | 24        | 17       | 36       | 04400 |
| 4,45                   | 6                          | 66        | 24        | 17       | 36       | 04450 |
| 4,50                   | 6                          | 66        | 24        | 17       | 36       | 04500 |
| 4,60                   | 6                          | 66        | 24        | 17       | 36       | 04600 |
| 4,65                   | 6                          | 66        | 24        | 17       | 36       | 04650 |
| 4,70                   | 6                          | 66        | 24        | 17       | 36       | 04700 |
| 4,80                   | 6                          | 66        | 28        | 20       | 36       | 04800 |
| 4,90                   | 6                          | 66        | 28        | 20       | 36       | 04900 |
| 4,95                   | 6                          | 66        | 28        | 20       | 36       | 04950 |
| 5,00                   | 6                          | 66        | 28        | 20       | 36       | 05000 |
| 5,05                   | 6                          | 66        | 28        | 20       | 36       | 05050 |
| 5,10                   | 6                          | 66        | 28        | 20       | 36       | 05100 |
| 5,20                   | 6                          | 66        | 28        | 20       | 36       | 05200 |
| 5,30                   | 6                          | 66        | 28        | 20       | 36       | 05300 |
| 5,40                   | 6                          | 66        | 28        | 20       | 36       | 05400 |
| 5,50                   | 6                          | 66        | 28        | 20       | 36       | 05500 |
| 5,55                   | 6                          | 66        | 28        | 20       | 36       | 05550 |
| 5,60                   | 6                          | 66        | 28        | 20       | 36       | 05600 |
| 5,70                   | 6                          | 66        | 28        | 20       | 36       | 05700 |
| 5,75                   | 6                          | 66        | 28        | 20       | 36       | 05750 |
| 5,80                   | 6                          | 66        | 28        | 20       | 36       | 05800 |
| 5,90                   | 6                          | 66        | 28        | 20       | 36       | 05900 |
| 5,95                   | 6                          | 66        | 28        | 20       | 36       | 05950 |
| 6,00                   | 6                          | 66        | 28        | 20       | 36       | 06000 |
| 6,10                   | 8                          | 79        | 34        | 24       | 36       | 06100 |
| 6,20                   | 8                          | 79        | 34        | 24       | 36       | 06200 |
| 6,30                   | 8                          | 79        | 34        | 24       | 36       | 06300 |
| 6,40                   | 8                          | 79        | 34        | 24       | 36       | 06400 |
| 6,50                   | 8                          | 79        | 34        | 24       | 36       | 06500 |
| 6,60                   | 8                          | 79        | 34        | 24       | 36       | 06600 |
| 6,70                   | 8                          | 79        | 34        | 24       | 36       | 06700 |

11 780 ...

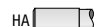
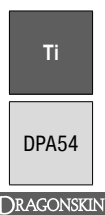
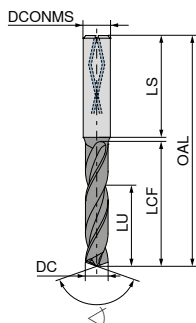
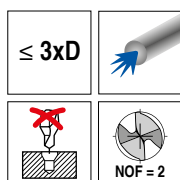
| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 6,80                   | 8                          | 79        | 34        | 24       | 36       | 06800 |
| 6,90                   | 8                          | 79        | 34        | 24       | 36       | 06900 |
| 7,00                   | 8                          | 79        | 34        | 24       | 36       | 07000 |
| 7,10                   | 8                          | 79        | 41        | 29       | 36       | 07100 |
| 7,20                   | 8                          | 79        | 41        | 29       | 36       | 07200 |
| 7,30                   | 8                          | 79        | 41        | 29       | 36       | 07300 |
| 7,40                   | 8                          | 79        | 41        | 29       | 36       | 07400 |
| 7,45                   | 8                          | 79        | 41        | 29       | 36       | 07450 |
| 7,50                   | 8                          | 79        | 41        | 29       | 36       | 07500 |
| 7,60                   | 8                          | 79        | 41        | 29       | 36       | 07600 |
| 7,70                   | 8                          | 79        | 41        | 29       | 36       | 07700 |
| 7,80                   | 8                          | 79        | 41        | 29       | 36       | 07800 |
| 7,90                   | 8                          | 79        | 41        | 29       | 36       | 07900 |
| 8,00                   | 8                          | 79        | 41        | 29       | 36       | 08000 |
| 8,10                   | 10                         | 89        | 47        | 35       | 40       | 08100 |
| 8,20                   | 10                         | 89        | 47        | 35       | 40       | 08200 |
| 8,30                   | 10                         | 89        | 47        | 35       | 40       | 08300 |
| 8,40                   | 10                         | 89        | 47        | 35       | 40       | 08400 |
| 8,50                   | 10                         | 89        | 47        | 35       | 40       | 08500 |
| 8,60                   | 10                         | 89        | 47        | 35       | 40       | 08600 |
| 8,70                   | 10                         | 89        | 47        | 35       | 40       | 08700 |
| 8,80                   | 10                         | 89        | 47        | 35       | 40       | 08800 |
| 8,90                   | 10                         | 89        | 47        | 35       | 40       | 08900 |
| 9,00                   | 10                         | 89        | 47        | 35       | 40       | 09000 |
| 9,10                   | 10                         | 89        | 47        | 35       | 40       | 09100 |
| 9,20                   | 10                         | 89        | 47        | 35       | 40       | 09200 |
| 9,30                   | 10                         | 89        | 47        | 35       | 40       | 09300 |
| 9,35                   | 10                         | 89        | 47        | 35       | 40       | 09350 |
| 9,40                   | 10                         | 89        | 47        | 35       | 40       | 09400 |
| 9,45                   | 10                         | 89        | 47        | 35       | 40       | 09450 |
| 9,50                   | 10                         | 89        | 47        | 35       | 40       | 09500 |
| 9,60                   | 10                         | 89        | 47        | 35       | 40       | 09600 |
| 9,70                   | 10                         | 89        | 47        | 35       | 40       | 09700 |
| 9,80                   | 10                         | 89        | 47        | 35       | 40       | 09800 |
| 9,90                   | 10                         | 89        | 47        | 35       | 40       | 09900 |
| 10,00                  | 10                         | 89        | 47        | 35       | 40       | 10000 |
| 10,10                  | 12                         | 102       | 55        | 40       | 45       | 10100 |
| 10,20                  | 12                         | 102       | 55        | 40       | 45       | 10200 |
| 10,30                  | 12                         | 102       | 55        | 40       | 45       | 10300 |
| 10,40                  | 12                         | 102       | 55        | 40       | 45       | 10400 |
| 10,50                  | 12                         | 102       | 55        | 40       | 45       | 10500 |
| 10,55                  | 12                         | 102       | 55        | 40       | 45       | 10550 |
| 10,60                  | 12                         | 102       | 55        | 40       | 45       | 10600 |
| 10,70                  | 12                         | 102       | 55        | 40       | 45       | 10700 |
| 10,75                  | 12                         | 102       | 55        | 40       | 45       | 10750 |
| 10,80                  | 12                         | 102       | 55        | 40       | 45       | 10800 |
| 10,90                  | 12                         | 102       | 55        | 40       | 45       | 10900 |
| 11,00                  | 12                         | 102       | 55        | 40       | 45       | 11000 |
| 11,10                  | 12                         | 102       | 55        | 40       | 45       | 11100 |
| 11,20                  | 12                         | 102       | 55        | 40       | 45       | 11200 |
| 11,25                  | 12                         | 102       | 55        | 40       | 45       | 11250 |
| 11,30                  | 12                         | 102       | 55        | 40       | 45       | 11300 |
| 11,35                  | 12                         | 102       | 55        | 40       | 45       | 11350 |
| 11,40                  | 12                         | 102       | 55        | 40       | 45       | 11400 |
| 11,45                  | 12                         | 102       | 55        | 40       | 45       | 11450 |
| 11,50                  | 12                         | 102       | 55        | 40       | 45       | 11500 |
| 11,60                  | 12                         | 102       | 55        | 40       | 45       | 11600 |
| 11,70                  | 12                         | 102       | 55        | 40       | 45       | 11700 |
| 11,80                  | 12                         | 102       | 55        | 40       | 45       | 11800 |
| 11,90                  | 12                         | 102       | 55        | 40       | 45       | 11900 |
| 12,00                  | 12                         | 102       | 55        | 40       | 45       | 12000 |

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→ V<sub>c</sub> стр. 34

Другие размеры и свёрла см. в нашем → **Общем каталоге,**  
гл. 2 «Твердосплавные свёрла»

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



Твёрдый сплав

10 786 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 3,00                   | 6                          | 62        | 20        | 14       | 36       | 030 |
| 3,10                   | 6                          | 62        | 20        | 14       | 36       | 031 |
| 3,20                   | 6                          | 62        | 20        | 14       | 36       | 032 |
| 3,30                   | 6                          | 62        | 20        | 14       | 36       | 033 |
| 3,40                   | 6                          | 62        | 20        | 14       | 36       | 034 |
| 3,50                   | 6                          | 62        | 20        | 14       | 36       | 035 |
| 3,60                   | 6                          | 62        | 20        | 14       | 36       | 036 |
| 3,70                   | 6                          | 62        | 20        | 14       | 36       | 037 |
| 3,80                   | 6                          | 66        | 24        | 17       | 36       | 038 |
| 3,90                   | 6                          | 66        | 24        | 17       | 36       | 039 |
| 3,97                   | 6                          | 66        | 24        | 17       | 36       | 900 |
| 4,00                   | 6                          | 66        | 24        | 17       | 36       | 040 |
| 4,10                   | 6                          | 66        | 24        | 17       | 36       | 041 |
| 4,20                   | 6                          | 66        | 24        | 17       | 36       | 042 |
| 4,23                   | 6                          | 66        | 24        | 17       | 36       | 901 |
| 4,30                   | 6                          | 66        | 24        | 17       | 36       | 043 |
| 4,40                   | 6                          | 66        | 24        | 17       | 36       | 044 |
| 4,50                   | 6                          | 66        | 24        | 17       | 36       | 045 |
| 4,60                   | 6                          | 66        | 24        | 17       | 36       | 046 |
| 4,70                   | 6                          | 66        | 24        | 17       | 36       | 047 |
| 4,80                   | 6                          | 66        | 28        | 20       | 36       | 048 |
| 4,90                   | 6                          | 66        | 28        | 20       | 36       | 049 |
| 5,00                   | 6                          | 66        | 28        | 20       | 36       | 050 |
| 5,10                   | 6                          | 66        | 28        | 20       | 36       | 051 |
| 5,20                   | 6                          | 66        | 28        | 20       | 36       | 052 |
| 5,30                   | 6                          | 66        | 28        | 20       | 36       | 053 |
| 5,40                   | 6                          | 66        | 28        | 20       | 36       | 054 |
| 5,50                   | 6                          | 66        | 28        | 20       | 36       | 055 |
| 5,56                   | 6                          | 66        | 28        | 20       | 36       | 902 |
| 5,60                   | 6                          | 66        | 28        | 20       | 36       | 056 |
| 5,70                   | 6                          | 66        | 28        | 20       | 36       | 057 |
| 5,80                   | 6                          | 66        | 28        | 20       | 36       | 058 |
| 5,90                   | 6                          | 66        | 28        | 20       | 36       | 059 |
| 6,00                   | 6                          | 66        | 28        | 20       | 36       | 060 |
| 6,10                   | 8                          | 79        | 34        | 24       | 36       | 061 |
| 6,20                   | 8                          | 79        | 34        | 24       | 36       | 062 |
| 6,30                   | 8                          | 79        | 34        | 24       | 36       | 063 |
| 6,35                   | 8                          | 79        | 34        | 24       | 36       | 903 |
| 6,40                   | 8                          | 79        | 34        | 24       | 36       | 064 |
| 6,50                   | 8                          | 79        | 34        | 24       | 36       | 065 |
| 6,60                   | 8                          | 79        | 34        | 24       | 36       | 066 |
| 6,70                   | 8                          | 79        | 34        | 24       | 36       | 067 |
| 6,80                   | 8                          | 79        | 34        | 24       | 36       | 068 |
| 6,90                   | 8                          | 79        | 34        | 24       | 36       | 069 |
| 7,00                   | 8                          | 79        | 34        | 24       | 36       | 070 |
| 7,10                   | 8                          | 79        | 41        | 29       | 36       | 071 |
| 7,20                   | 8                          | 79        | 41        | 29       | 36       | 072 |
| 7,30                   | 8                          | 79        | 41        | 29       | 36       | 073 |
| 7,40                   | 8                          | 79        | 41        | 29       | 36       | 074 |
| 7,50                   | 8                          | 79        | 41        | 29       | 36       | 075 |
| 7,60                   | 8                          | 79        | 41        | 29       | 36       | 076 |

10 786 ...

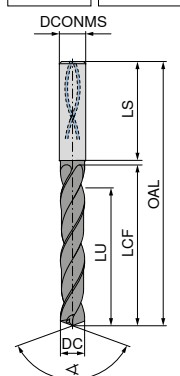
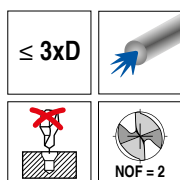
| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 7,70                   | 8                          | 79        | 41        | 29       | 36       | 077 |
| 7,80                   | 8                          | 79        | 41        | 29       | 36       | 078 |
| 7,90                   | 8                          | 79        | 41        | 29       | 36       | 079 |
| 7,94                   | 8                          | 79        | 41        | 29       | 36       | 904 |
| 8,00                   | 8                          | 79        | 41        | 29       | 36       | 080 |
| 8,10                   | 10                         | 89        | 47        | 35       | 40       | 081 |
| 8,20                   | 10                         | 89        | 47        | 35       | 40       | 082 |
| 8,30                   | 10                         | 89        | 47        | 35       | 40       | 083 |
| 8,40                   | 10                         | 89        | 47        | 35       | 40       | 084 |
| 8,50                   | 10                         | 89        | 47        | 35       | 40       | 085 |
| 8,60                   | 10                         | 89        | 47        | 35       | 40       | 086 |
| 8,70                   | 10                         | 89        | 47        | 35       | 40       | 087 |
| 8,80                   | 10                         | 89        | 47        | 35       | 40       | 088 |
| 8,90                   | 10                         | 89        | 47        | 35       | 40       | 089 |
| 9,00                   | 10                         | 89        | 47        | 35       | 40       | 090 |
| 9,10                   | 10                         | 89        | 47        | 35       | 40       | 091 |
| 9,20                   | 10                         | 89        | 47        | 35       | 40       | 092 |
| 9,30                   | 10                         | 89        | 47        | 35       | 40       | 093 |
| 9,40                   | 10                         | 89        | 47        | 35       | 40       | 094 |
| 9,50                   | 10                         | 89        | 47        | 35       | 40       | 095 |
| 9,53                   | 10                         | 89        | 47        | 35       | 40       | 905 |
| 9,60                   | 10                         | 89        | 47        | 35       | 40       | 096 |
| 9,70                   | 10                         | 89        | 47        | 35       | 40       | 097 |
| 9,80                   | 10                         | 89        | 47        | 35       | 40       | 098 |
| 9,90                   | 10                         | 89        | 47        | 35       | 40       | 099 |
| 10,00                  | 10                         | 89        | 47        | 35       | 40       | 100 |
| 10,10                  | 12                         | 102       | 55        | 40       | 45       | 101 |
| 10,20                  | 12                         | 102       | 55        | 40       | 45       | 102 |
| 10,30                  | 12                         | 102       | 55        | 40       | 45       | 103 |
| 10,40                  | 12                         | 102       | 55        | 40       | 45       | 104 |
| 10,50                  | 12                         | 102       | 55        | 40       | 45       | 105 |
| 10,60                  | 12                         | 102       | 55        | 40       | 45       | 106 |
| 10,70                  | 12                         | 102       | 55        | 40       | 45       | 107 |
| 10,80                  | 12                         | 102       | 55        | 40       | 45       | 108 |
| 10,90                  | 12                         | 102       | 55        | 40       | 45       | 109 |
| 11,00                  | 12                         | 102       | 55        | 40       | 45       | 110 |
| 11,10                  | 12                         | 102       | 55        | 40       | 45       | 111 |
| 11,11                  | 12                         | 102       | 55        | 40       | 45       | 906 |
| 11,20                  | 12                         | 102       | 55        | 40       | 45       | 112 |
| 11,30                  | 12                         | 102       | 55        | 40       | 45       | 113 |
| 11,40                  | 12                         | 102       | 55        | 40       | 45       | 114 |
| 11,50                  | 12                         | 102       | 55        | 40       | 45       | 115 |
| 11,60                  | 12                         | 102       | 55        | 40       | 45       | 116 |
| 11,70                  | 12                         | 102       | 55        | 40       | 45       | 117 |
| 11,80                  | 12                         | 102       | 55        | 40       | 45       | 118 |
| 11,90                  | 12                         | 102       | 55        | 40       | 45       | 119 |
| 12,00                  | 12                         | 102       | 55        | 40       | 45       | 120 |

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→ v<sub>c</sub> стр. 35Другие размеры и свёрла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные свёрла»



## WPC – Высокопроизводительное твердосплавное сверло, DIN 6537



HA  
140°  
Твёрдый сплав

11 603 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 1,00                   | 4                          | 45        | 6,0       | 4,5      | 32,0     | 010 |
| 1,10                   | 4                          | 45        | 6,6       | 5,0      | 31,5     | 011 |
| 1,20                   | 4                          | 45        | 7,2       | 5,4      | 31,0     | 012 |
| 1,30                   | 4                          | 45        | 7,8       | 5,9      | 31,5     | 013 |
| 1,40                   | 4                          | 45        | 8,4       | 6,3      | 30,0     | 014 |
| 1,50                   | 4                          | 50        | 9,0       | 6,8      | 35,0     | 015 |
| 1,60                   | 4                          | 50        | 9,6       | 7,2      | 34,5     | 016 |
| 1,70                   | 4                          | 50        | 10,2      | 7,7      | 34,0     | 017 |
| 1,80                   | 4                          | 50        | 10,8      | 8,1      | 33,5     | 018 |
| 1,90                   | 4                          | 50        | 11,4      | 8,6      | 33,0     | 019 |
| 2,00                   | 4                          | 50        | 12,0      | 9,0      | 33,0     | 020 |
| 2,10                   | 4                          | 55        | 12,6      | 9,5      | 37,5     | 021 |
| 2,20                   | 4                          | 55        | 13,2      | 9,9      | 37,0     | 022 |
| 2,30                   | 4                          | 55        | 13,8      | 10,4     | 36,5     | 023 |
| 2,40                   | 4                          | 55        | 14,4      | 10,8     | 36,0     | 024 |
| 2,50                   | 4                          | 55        | 15,0      | 11,3     | 35,5     | 025 |
| 2,60                   | 4                          | 55        | 15,6      | 11,7     | 35,5     | 026 |
| 2,70                   | 4                          | 55        | 16,2      | 12,2     | 35,0     | 027 |
| 2,80                   | 4                          | 55        | 16,8      | 12,6     | 34,0     | 028 |
| 2,90                   | 4                          | 55        | 17,4      | 13,1     | 34,0     | 029 |
| 3,00                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 030 |
| 3,10                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 031 |
| 3,20                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 032 |
| 3,25                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 890 |
| 3,30                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 033 |
| 3,40                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 034 |
| 3,50                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 035 |
| 3,60                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 036 |
| 3,70                   | 6                          | 62        | 20,0      | 14,0     | 36,0     | 037 |
| 3,80                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 038 |
| 3,90                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 039 |
| 4,00                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 040 |
| 4,10                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 041 |
| 4,20                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 042 |
| 4,30                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 043 |
| 4,40                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 044 |
| 4,50                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 045 |
| 4,60                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 046 |
| 4,65                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 900 |
| 4,70                   | 6                          | 66        | 24,0      | 17,0     | 36,0     | 047 |
| 4,80                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 048 |
| 4,90                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 049 |
| 5,00                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 050 |
| 5,10                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 051 |
| 5,20                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 052 |
| 5,30                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 053 |
| 5,40                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 054 |
| 5,50                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 055 |
| 5,55                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 902 |
| 5,60                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 056 |
| 5,70                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 057 |
| 5,80                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 058 |
| 5,90                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 059 |
| 6,00                   | 6                          | 66        | 28,0      | 20,0     | 36,0     | 060 |
| 6,10                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 061 |
| 6,20                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 062 |

11 603 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 6,30                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 063 |
| 6,40                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 064 |
| 6,50                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 065 |
| 6,60                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 066 |
| 6,70                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 067 |
| 6,80                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 068 |
| 6,90                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 069 |
| 7,00                   | 8                          | 79        | 34,0      | 24,0     | 36,0     | 070 |
| 7,10                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 071 |
| 7,20                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 072 |
| 7,30                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 073 |
| 7,40                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 074 |
| 7,45                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 924 |
| 7,50                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 075 |
| 7,55                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 975 |
| 7,60                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 076 |
| 7,70                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 077 |
| 7,80                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 078 |
| 7,90                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 079 |
| 8,00                   | 8                          | 79        | 41,0      | 29,0     | 36,0     | 080 |
| 8,10                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 081 |
| 8,20                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 082 |
| 8,30                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 083 |
| 8,40                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 084 |
| 8,50                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 085 |
| 8,60                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 086 |
| 8,70                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 087 |
| 8,80                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 088 |
| 8,90                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 089 |
| 9,00                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 090 |
| 9,10                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 091 |
| 9,20                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 092 |
| 9,25                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 925 |
| 9,30                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 093 |
| 9,35                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 930 |
| 9,40                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 094 |
| 9,50                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 095 |
| 9,60                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 096 |
| 9,70                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 097 |
| 9,80                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 098 |
| 9,90                   | 10                         | 89        | 47,0      | 35,0     | 40,0     | 099 |
| 10,00                  | 10                         | 89        | 47,0      | 35,0     | 40,0     | 100 |
| 10,10                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 101 |
| 10,20                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 102 |
| 10,30                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 103 |
| 10,40                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 104 |
| 10,50                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 105 |
| 10,60                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 106 |
| 10,70                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 107 |
| 10,75                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 904 |
| 10,80                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 108 |
| 10,90                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 109 |
| 11,00                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 110 |
| 11,10                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 111 |
| 11,20                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 112 |
| 11,25                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 912 |
| 11,30                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 113 |
| 11,40                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 114 |
| 11,50                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 115 |
| 11,60                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 116 |
| 11,70                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 117 |
| 11,80                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 118 |
| 11,90                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 119 |
| 12,00                  | 12                         | 102       | 55,0      | 40,0     | 45,0     | 120 |

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→ v<sub>c</sub> стр. 40



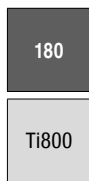
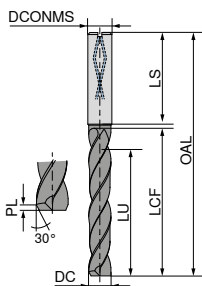
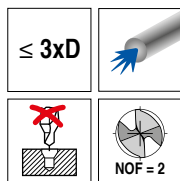
Другие размеры и свёрла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные свёрла»

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537

- ▲ Универсальное применение
- ▲ Четыре направляющие ленточки

- ▲ Полированные стружечные канавки
- ▲ Тип ALU 3xD по запросу

- ▲ PL = размер фаски



НА 180°  
Твёрдый сплав

10 720 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm | PL<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|----------|-----|
| 3,00                   | 6                          | 62        | 20        | 14       | 36       | 0,15     | 030 |
| 3,10                   | 6                          | 62        | 20        | 14       | 36       | 0,16     | 031 |
| 3,20                   | 6                          | 62        | 20        | 14       | 36       | 0,16     | 032 |
| 3,30                   | 6                          | 62        | 20        | 14       | 36       | 0,17     | 033 |
| 3,40                   | 6                          | 62        | 20        | 14       | 36       | 0,17     | 034 |
| 3,50                   | 6                          | 62        | 20        | 14       | 36       | 0,18     | 035 |
| 3,60                   | 6                          | 62        | 20        | 14       | 36       | 0,18     | 036 |
| 3,70                   | 6                          | 62        | 20        | 14       | 36       | 0,19     | 037 |
| 3,80                   | 6                          | 66        | 24        | 17       | 36       | 0,19     | 038 |
| 3,90                   | 6                          | 66        | 24        | 17       | 36       | 0,20     | 039 |
| 4,00                   | 6                          | 66        | 24        | 17       | 36       | 0,20     | 040 |
| 4,10                   | 6                          | 66        | 24        | 17       | 36       | 0,21     | 041 |
| 4,20                   | 6                          | 66        | 24        | 17       | 36       | 0,21     | 042 |
| 4,30                   | 6                          | 66        | 24        | 17       | 36       | 0,22     | 043 |
| 4,40                   | 6                          | 66        | 24        | 17       | 36       | 0,22     | 044 |
| 4,50                   | 6                          | 66        | 24        | 17       | 36       | 0,23     | 045 |
| 4,60                   | 6                          | 66        | 24        | 17       | 36       | 0,23     | 046 |
| 4,65                   | 6                          | 66        | 24        | 17       | 36       | 0,23     | 900 |
| 4,70                   | 6                          | 66        | 24        | 17       | 36       | 0,24     | 047 |
| 4,80                   | 6                          | 66        | 28        | 20       | 36       | 0,24     | 048 |
| 4,90                   | 6                          | 66        | 28        | 20       | 36       | 0,25     | 049 |
| 5,00                   | 6                          | 66        | 28        | 20       | 36       | 0,25     | 050 |
| 5,10                   | 6                          | 66        | 28        | 20       | 36       | 0,26     | 051 |
| 5,20                   | 6                          | 66        | 28        | 20       | 36       | 0,26     | 052 |
| 5,30                   | 6                          | 66        | 28        | 20       | 36       | 0,27     | 053 |
| 5,40                   | 6                          | 66        | 28        | 20       | 36       | 0,27     | 054 |
| 5,50                   | 6                          | 66        | 28        | 20       | 36       | 0,28     | 055 |
| 5,55                   | 6                          | 66        | 28        | 20       | 36       | 0,28     | 902 |
| 5,60                   | 6                          | 66        | 28        | 20       | 36       | 0,28     | 056 |
| 5,70                   | 6                          | 66        | 28        | 20       | 36       | 0,29     | 057 |
| 5,80                   | 6                          | 66        | 28        | 20       | 36       | 0,29     | 058 |
| 5,90                   | 6                          | 66        | 28        | 20       | 36       | 0,30     | 059 |
| 6,00                   | 6                          | 66        | 28        | 20       | 36       | 0,30     | 060 |
| 6,10                   | 8                          | 79        | 34        | 24       | 36       | 0,31     | 061 |
| 6,20                   | 8                          | 79        | 34        | 24       | 36       | 0,31     | 062 |
| 6,30                   | 8                          | 79        | 34        | 24       | 36       | 0,32     | 063 |
| 6,40                   | 8                          | 79        | 34        | 24       | 36       | 0,32     | 064 |
| 6,50                   | 8                          | 79        | 34        | 24       | 36       | 0,33     | 065 |
| 6,60                   | 8                          | 79        | 34        | 24       | 36       | 0,33     | 066 |
| 6,70                   | 8                          | 79        | 34        | 24       | 36       | 0,34     | 067 |
| 6,80                   | 8                          | 79        | 34        | 24       | 36       | 0,34     | 068 |
| 6,90                   | 8                          | 79        | 34        | 24       | 36       | 0,35     | 069 |
| 7,00                   | 8                          | 79        | 34        | 24       | 36       | 0,35     | 070 |
| 7,10                   | 8                          | 79        | 41        | 29       | 36       | 0,36     | 071 |
| 7,20                   | 8                          | 79        | 41        | 29       | 36       | 0,36     | 072 |
| 7,30                   | 8                          | 79        | 41        | 29       | 36       | 0,37     | 073 |
| 7,40                   | 8                          | 79        | 41        | 29       | 36       | 0,37     | 074 |
| 7,50                   | 8                          | 79        | 41        | 29       | 36       | 0,38     | 075 |
| 7,60                   | 8                          | 79        | 41        | 29       | 36       | 0,38     | 076 |
| 7,70                   | 8                          | 79        | 41        | 29       | 36       | 0,39     | 077 |
| 7,80                   | 8                          | 79        | 41        | 29       | 36       | 0,39     | 078 |
| 7,90                   | 8                          | 79        | 41        | 29       | 36       | 0,40     | 079 |
| 8,00                   | 8                          | 79        | 41        | 29       | 36       | 0,40     | 080 |
| 8,10                   | 10                         | 89        | 47        | 35       | 40       | 0,41     | 081 |

10 720 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm | PL<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|----------|-----|
| 8,20                   | 10                         | 89        | 47        | 35       | 40       | 0,41     | 082 |
| 8,30                   | 10                         | 89        | 47        | 35       | 40       | 0,42     | 083 |
| 8,40                   | 10                         | 89        | 47        | 35       | 40       | 0,42     | 084 |
| 8,50                   | 10                         | 89        | 47        | 35       | 40       | 0,43     | 085 |
| 8,60                   | 10                         | 89        | 47        | 35       | 40       | 0,43     | 086 |
| 8,70                   | 10                         | 89        | 47        | 35       | 40       | 0,44     | 087 |
| 8,80                   | 10                         | 89        | 47        | 35       | 40       | 0,44     | 088 |
| 8,90                   | 10                         | 89        | 47        | 35       | 40       | 0,45     | 089 |
| 9,00                   | 10                         | 89        | 47        | 35       | 40       | 0,45     | 090 |
| 9,10                   | 10                         | 89        | 47        | 35       | 40       | 0,46     | 091 |
| 9,20                   | 10                         | 89        | 47        | 35       | 40       | 0,46     | 092 |
| 9,30                   | 10                         | 89        | 47        | 35       | 40       | 0,47     | 093 |
| 9,40                   | 10                         | 89        | 47        | 35       | 40       | 0,47     | 094 |
| 9,50                   | 10                         | 89        | 47        | 35       | 40       | 0,48     | 095 |
| 9,60                   | 10                         | 89        | 47        | 35       | 40       | 0,48     | 096 |
| 9,70                   | 10                         | 89        | 47        | 35       | 40       | 0,49     | 097 |
| 9,80                   | 10                         | 89        | 47        | 35       | 40       | 0,49     | 098 |
| 9,90                   | 10                         | 89        | 47        | 35       | 40       | 0,50     | 099 |
| 10,00                  | 10                         | 89        | 47        | 35       | 40       | 0,50     | 100 |
| 10,10                  | 12                         | 100       | 53        | 38       | 45       | 0,51     | 101 |
| 10,20                  | 12                         | 100       | 53        | 38       | 45       | 0,51     | 102 |
| 10,30                  | 12                         | 100       | 53        | 38       | 45       | 0,52     | 103 |
| 10,40                  | 12                         | 100       | 53        | 38       | 45       | 0,52     | 104 |
| 10,50                  | 12                         | 100       | 53        | 38       | 45       | 0,53     | 105 |
| 10,60                  | 12                         | 100       | 53        | 38       | 45       | 0,53     | 106 |
| 10,70                  | 12                         | 100       | 53        | 38       | 45       | 0,54     | 107 |
| 10,80                  | 12                         | 100       | 53        | 38       | 45       | 0,54     | 108 |
| 10,90                  | 12                         | 100       | 53        | 38       | 45       | 0,55     | 109 |
| 11,00                  | 12                         | 100       | 53        | 38       | 45       | 0,55     | 110 |
| 11,10                  | 12                         | 100       | 53        | 38       | 45       | 0,56     | 111 |
| 11,20                  | 12                         | 100       | 53        | 38       | 45       | 0,56     | 112 |
| 11,30                  | 12                         | 100       | 53        | 38       | 45       | 0,57     | 113 |
| 11,40                  | 12                         | 100       | 53        | 38       | 45       | 0,57     | 114 |
| 11,50                  | 12                         | 100       | 53        | 38       | 45       | 0,58     | 115 |
| 11,60                  | 12                         | 100       | 53        | 38       | 45       | 0,58     | 116 |
| 11,70                  | 12                         | 100       | 53        | 38       | 45       | 0,59     | 117 |
| 11,80                  | 12                         | 100       | 53        | 38       | 45       | 0,59     | 118 |
| 11,90                  | 12                         | 100       | 53        | 38       | 45       | 0,60     | 119 |
| 12,00                  | 12                         | 100       | 53        | 38       | 45       | 0,60     | 120 |

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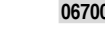
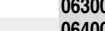
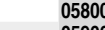
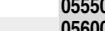
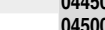
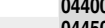
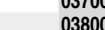
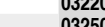
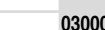
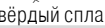
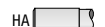
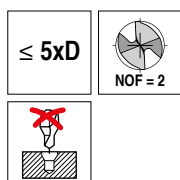
→ v<sub>c</sub> стр. 38



Другие размеры и свёрла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные свёрла»



## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



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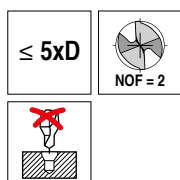
| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 3,00                   | 6                          | 66        | 28        | 23       | 36       | 03000 |
| 3,10                   | 6                          | 66        | 28        | 23       | 36       | 03100 |
| 3,15                   | 6                          | 66        | 28        | 23       | 36       | 03150 |
| 3,20                   | 6                          | 66        | 28        | 23       | 36       | 03200 |
| 3,22                   | 6                          | 66        | 28        | 23       | 36       | 03220 |
| 3,25                   | 6                          | 66        | 28        | 23       | 36       | 03250 |
| 3,30                   | 6                          | 66        | 28        | 23       | 36       | 03300 |
| 3,40                   | 6                          | 66        | 28        | 23       | 36       | 03400 |
| 3,50                   | 6                          | 66        | 28        | 23       | 36       | 03500 |
| 3,60                   | 6                          | 66        | 28        | 23       | 36       | 03600 |
| 3,70                   | 6                          | 66        | 28        | 23       | 36       | 03700 |
| 3,80                   | 6                          | 74        | 36        | 29       | 36       | 03800 |
| 3,85                   | 6                          | 74        | 36        | 29       | 36       | 03850 |
| 3,90                   | 6                          | 74        | 36        | 29       | 36       | 03900 |
| 4,00                   | 6                          | 74        | 36        | 29       | 36       | 04000 |
| 4,10                   | 6                          | 74        | 36        | 29       | 36       | 04100 |
| 4,20                   | 6                          | 74        | 36        | 29       | 36       | 04200 |
| 4,25                   | 6                          | 74        | 36        | 29       | 36       | 04250 |
| 4,30                   | 6                          | 74        | 36        | 29       | 36       | 04300 |
| 4,35                   | 6                          | 74        | 36        | 29       | 36       | 04350 |
| 4,40                   | 6                          | 74        | 36        | 29       | 36       | 04400 |
| 4,45                   | 6                          | 74        | 36        | 29       | 36       | 04450 |
| 4,50                   | 6                          | 74        | 36        | 29       | 36       | 04500 |
| 4,60                   | 6                          | 74        | 36        | 29       | 36       | 04600 |
| 4,65                   | 6                          | 74        | 36        | 29       | 36       | 04650 |
| 4,70                   | 6                          | 74        | 36        | 29       | 36       | 04700 |
| 4,80                   | 6                          | 82        | 44        | 35       | 36       | 04800 |
| 4,90                   | 6                          | 82        | 44        | 35       | 36       | 04900 |
| 4,95                   | 6                          | 82        | 44        | 35       | 36       | 04950 |
| 5,00                   | 6                          | 82        | 44        | 35       | 36       | 05000 |
| 5,05                   | 6                          | 82        | 44        | 35       | 36       | 05050 |
| 5,10                   | 6                          | 82        | 44        | 35       | 36       | 05100 |
| 5,20                   | 6                          | 82        | 44        | 35       | 36       | 05200 |
| 5,30                   | 6                          | 82        | 44        | 35       | 36       | 05300 |
| 5,40                   | 6                          | 82        | 44        | 35       | 36       | 05400 |
| 5,50                   | 6                          | 82        | 44        | 35       | 36       | 05500 |
| 5,55                   | 6                          | 82        | 44        | 35       | 36       | 05550 |
| 5,60                   | 6                          | 82        | 44        | 35       | 36       | 05600 |
| 5,70                   | 6                          | 82        | 44        | 35       | 36       | 05700 |
| 5,75                   | 6                          | 82        | 44        | 35       | 36       | 05750 |
| 5,80                   | 6                          | 82        | 44        | 35       | 36       | 05800 |
| 5,90                   | 6                          | 82        | 44        | 35       | 36       | 05900 |
| 5,95                   | 6                          | 82        | 44        | 35       | 36       | 05950 |
| 6,00                   | 6                          | 82        | 44        | 35       | 36       | 06000 |
| 6,10                   | 8                          | 91        | 53        | 43       | 36       | 06100 |
| 6,20                   | 8                          | 91        | 53        | 43       | 36       | 06200 |
| 6,30                   | 8                          | 91        | 53        | 43       | 36       | 06300 |
| 6,40                   | 8                          | 91        | 53        | 43       | 36       | 06400 |
| 6,50                   | 8                          | 91        | 53        | 43       | 36       | 06500 |
| 6,60                   | 8                          | 91        | 53        | 43       | 36       | 06600 |
| 6,70                   | 8                          | 91        | 53        | 43       | 36       | 06700 |

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 6,80                   | 8                          | 91        | 53        | 43       | 36       | 06800 |
| 6,90                   | 8                          | 91        | 53        | 43       | 36       | 06900 |
| 7,00                   | 8                          | 91        | 53        | 43       | 36       | 07000 |
| 7,10                   | 8                          | 91        | 53        | 43       | 36       | 07100 |
| 7,20                   | 8                          | 91        | 53        | 43       | 36       | 07200 |
| 7,30                   | 8                          | 91        | 53        | 43       | 36       | 07300 |
| 7,40                   | 8                          | 91        | 53        | 43       | 36       | 07400 |
| 7,45                   | 8                          | 91        | 53        | 43       | 36       | 07450 |
| 7,50                   | 8                          | 91        | 53        | 43       | 36       | 07500 |
| 7,60                   | 8                          | 91        | 53        | 43       | 36       | 07600 |
| 7,70                   | 8                          | 91        | 53        | 43       | 36       | 07700 |
| 7,80                   | 8                          | 91        | 53        | 43       | 36       | 07800 |
| 7,90                   | 8                          | 91        | 53        | 43       | 36       | 07900 |
| 8,00                   | 8                          | 91        | 53        | 43       | 36       | 08000 |
| 8,10                   | 10                         | 103       | 61        | 49       | 40       | 08100 |
| 8,20                   | 10                         | 103       | 61        | 49       | 40       | 08200 |
| 8,30                   | 10                         | 103       | 61        | 49       | 40       | 08300 |
| 8,40                   | 10                         | 103       | 61        | 49       | 40       | 08400 |
| 8,50                   | 10                         | 103       | 61        | 49       | 40       | 08500 |
| 8,60                   | 10                         | 103       | 61        | 49       | 40       | 08600 |
| 8,70                   | 10                         | 103       | 61        | 49       | 40       | 08700 |
| 8,80                   | 10                         | 103       | 61        | 49       | 40       | 08800 |
| 8,90                   | 10                         | 103       | 61        | 49       | 40       | 08900 |
| 9,00                   | 10                         | 103       | 61        | 49       | 40       | 09000 |
| 9,10                   | 10                         | 103       | 61        | 49       | 40       | 09100 |
| 9,20                   | 10                         | 103       | 61        | 49       | 40       | 09200 |
| 9,30                   | 10                         | 103       | 61        | 49       | 40       | 09300 |
| 9,35                   | 10                         | 103       | 61        | 49       | 40       | 09350 |
| 9,40                   | 10                         | 103       | 61        | 49       | 40       | 09400 |
| 9,45                   | 10                         | 103       | 61        | 49       | 40       | 09450 |
| 9,50                   | 10                         | 103       | 61        | 49       | 40       | 09500 |
| 9,60                   | 10                         | 103       | 61        | 49       | 40       | 09600 |
| 9,70                   | 10                         | 103       | 61        | 49       | 40       | 09700 |
| 9,80                   | 10                         | 103       | 61        | 49       | 40       | 09800 |
| 9,90                   | 10                         | 103       | 61        | 49       | 40       | 09900 |
| 10,00                  | 10                         | 103       | 61        | 49       | 40       | 10000 |
| 10,10                  | 12                         | 118       | 71        | 56       | 45       | 10100 |
| 10,20                  | 12                         | 118       | 71        | 56       | 45       | 10200 |
| 10,30                  | 12                         | 118       | 71        | 56       | 45       | 10300 |
| 10,40                  | 12                         | 118       | 71        | 56       | 45       | 10400 |
| 10,50                  | 12                         | 118       | 71        | 56       | 45       | 10500 |
| 10,55                  | 12                         | 118       | 71        | 56       | 45       | 10550 |
| 10,60                  | 12                         | 118       | 71        | 56       | 45       | 10600 |
| 10,70                  | 12                         | 118       | 71        | 56       | 45       | 10700 |
| 10,75                  | 12                         | 118       | 71        | 56       | 45       | 10750 |
| 10,80                  | 12                         | 118       | 71        | 56       | 45       | 10800 |
| 10,90                  | 12                         | 118       | 71        | 56       | 45       | 10900 |
| 11,00                  | 12                         | 118       | 71        | 56       | 45       | 11000 |
| 11,10                  | 12                         | 118       | 71        | 56       | 45       | 11100 |
| 11,20                  | 12                         | 118       | 71        | 56       | 45       | 11200 |
| 11,25                  | 12                         | 118       | 71        | 56       | 45       | 11250 |
| 11,30                  | 12                         | 118       | 71        | 56       | 45       | 11300 |
| 11,35                  | 12                         | 118       | 71        | 56       | 45       | 11350 |
| 11,40                  | 12                         | 118       | 71        | 56       | 45       | 11400 |
| 11,45                  | 12                         | 118       | 71        | 56       | 45       | 11450 |
| 11,50                  | 12                         | 118       | 71        | 56       | 45       | 11500 |
| 11,60                  | 12                         | 118       | 71        | 56       | 45       | 11600 |
| 11,70                  | 12                         | 118       | 71        | 56       | 45       | 11700 |
| 11,80                  | 12                         | 118       | 71        | 56       | 45       | 11800 |
| 11,90                  | 12                         | 118       | 71        | 56       | 45       | 11900 |
| 12,00                  | 12                         | 118       | 71        | 56       | 45       | 12000 |

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→ V<sub>c</sub> стр. 34Другие размеры и свёрла см. в нашем → **Общем каталоге,**  
гл. 2 «Твердосплавные свёрла»

## WPC – Высокопроизводительное твердосплавное сверло, DIN 6537



140°  
Твёрдый сплав

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| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 3,00                   | 6                          | 66        | 28        | 23       | 36       | 030 |
| 3,10                   | 6                          | 66        | 28        | 23       | 36       | 031 |
| 3,20                   | 6                          | 66        | 28        | 23       | 36       | 032 |
| 3,30                   | 6                          | 66        | 28        | 23       | 36       | 033 |
| 3,40                   | 6                          | 66        | 28        | 23       | 36       | 034 |
| 3,50                   | 6                          | 66        | 28        | 23       | 36       | 035 |
| 3,60                   | 6                          | 66        | 28        | 23       | 36       | 036 |
| 3,70                   | 6                          | 66        | 28        | 23       | 36       | 037 |
| 3,80                   | 6                          | 74        | 36        | 29       | 36       | 038 |
| 3,90                   | 6                          | 74        | 36        | 29       | 36       | 039 |
| 4,00                   | 6                          | 74        | 36        | 29       | 36       | 040 |
| 4,10                   | 6                          | 74        | 36        | 29       | 36       | 041 |
| 4,20                   | 6                          | 74        | 36        | 29       | 36       | 042 |
| 4,30                   | 6                          | 74        | 36        | 29       | 36       | 043 |
| 4,40                   | 6                          | 74        | 36        | 29       | 36       | 044 |
| 4,50                   | 6                          | 74        | 36        | 29       | 36       | 045 |
| 4,60                   | 6                          | 74        | 36        | 29       | 36       | 046 |
| 4,65                   | 6                          | 74        | 36        | 29       | 36       | 900 |
| 4,70                   | 6                          | 74        | 36        | 29       | 36       | 047 |
| 4,80                   | 6                          | 82        | 44        | 35       | 36       | 048 |
| 4,90                   | 6                          | 82        | 44        | 35       | 36       | 049 |
| 5,00                   | 6                          | 82        | 44        | 35       | 36       | 050 |
| 5,10                   | 6                          | 82        | 44        | 35       | 36       | 051 |
| 5,20                   | 6                          | 82        | 44        | 35       | 36       | 052 |
| 5,30                   | 6                          | 82        | 44        | 35       | 36       | 053 |
| 5,40                   | 6                          | 82        | 44        | 35       | 36       | 054 |
| 5,50                   | 6                          | 82        | 44        | 35       | 36       | 055 |
| 5,55                   | 6                          | 82        | 44        | 35       | 36       | 902 |
| 5,60                   | 6                          | 82        | 44        | 35       | 36       | 056 |
| 5,70                   | 6                          | 82        | 44        | 35       | 36       | 057 |
| 5,80                   | 6                          | 82        | 44        | 35       | 36       | 058 |
| 5,90                   | 6                          | 82        | 44        | 35       | 36       | 059 |
| 6,00                   | 6                          | 82        | 44        | 35       | 36       | 060 |
| 6,10                   | 8                          | 91        | 53        | 43       | 36       | 061 |
| 6,20                   | 8                          | 91        | 53        | 43       | 36       | 062 |
| 6,30                   | 8                          | 91        | 53        | 43       | 36       | 063 |
| 6,40                   | 8                          | 91        | 53        | 43       | 36       | 064 |
| 6,50                   | 8                          | 91        | 53        | 43       | 36       | 065 |
| 6,60                   | 8                          | 91        | 53        | 43       | 36       | 066 |
| 6,70                   | 8                          | 91        | 53        | 43       | 36       | 067 |
| 6,80                   | 8                          | 91        | 53        | 43       | 36       | 068 |
| 6,90                   | 8                          | 91        | 53        | 43       | 36       | 069 |
| 7,00                   | 8                          | 91        | 53        | 43       | 36       | 070 |
| 7,10                   | 8                          | 91        | 53        | 43       | 36       | 071 |
| 7,20                   | 8                          | 91        | 53        | 43       | 36       | 072 |
| 7,30                   | 8                          | 91        | 53        | 43       | 36       | 073 |
| 7,40                   | 8                          | 91        | 53        | 43       | 36       | 074 |
| 7,50                   | 8                          | 91        | 53        | 43       | 36       | 075 |
| 7,55                   | 8                          | 91        | 53        | 43       | 36       | 975 |
| 7,60                   | 8                          | 91        | 53        | 43       | 36       | 076 |
| 7,70                   | 8                          | 91        | 53        | 43       | 36       | 077 |
| 7,80                   | 8                          | 91        | 53        | 43       | 36       | 078 |
| 7,90                   | 8                          | 91        | 53        | 43       | 36       | 079 |

11 606 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 8,00                   | 8                          | 91        | 53        | 43       | 36       | 080 |
| 8,10                   | 10                         | 103       | 61        | 49       | 40       | 081 |
| 8,20                   | 10                         | 103       | 61        | 49       | 40       | 082 |
| 8,30                   | 10                         | 103       | 61        | 49       | 40       | 083 |
| 8,40                   | 10                         | 103       | 61        | 49       | 40       | 084 |
| 8,50                   | 10                         | 103       | 61        | 49       | 40       | 085 |
| 8,60                   | 10                         | 103       | 61        | 49       | 40       | 086 |
| 8,70                   | 10                         | 103       | 61        | 49       | 40       | 087 |
| 8,80                   | 10                         | 103       | 61        | 49       | 40       | 088 |
| 8,90                   | 10                         | 103       | 61        | 49       | 40       | 089 |
| 9,00                   | 10                         | 103       | 61        | 49       | 40       | 090 |
| 9,10                   | 10                         | 103       | 61        | 49       | 40       | 091 |
| 9,20                   | 10                         | 103       | 61        | 49       | 40       | 092 |
| 9,25                   | 10                         | 103       | 61        | 49       | 40       | 925 |
| 9,30                   | 10                         | 103       | 61        | 49       | 40       | 093 |
| 9,40                   | 10                         | 103       | 61        | 49       | 40       | 094 |
| 9,50                   | 10                         | 103       | 61        | 49       | 40       | 095 |
| 9,60                   | 10                         | 103       | 61        | 49       | 40       | 096 |
| 9,70                   | 10                         | 103       | 61        | 49       | 40       | 097 |
| 9,80                   | 10                         | 103       | 61        | 49       | 40       | 098 |
| 9,90                   | 10                         | 103       | 61        | 49       | 40       | 099 |
| 10,00                  | 10                         | 103       | 61        | 49       | 40       | 100 |
| 10,10                  | 12                         | 118       | 71        | 56       | 45       | 101 |
| 10,20                  | 12                         | 118       | 71        | 56       | 45       | 102 |
| 10,30                  | 12                         | 118       | 71        | 56       | 45       | 103 |
| 10,40                  | 12                         | 118       | 71        | 56       | 45       | 104 |
| 10,50                  | 12                         | 118       | 71        | 56       | 45       | 105 |
| 10,60                  | 12                         | 118       | 71        | 56       | 45       | 106 |
| 10,70                  | 12                         | 118       | 71        | 56       | 45       | 107 |
| 10,80                  | 12                         | 118       | 71        | 56       | 45       | 108 |
| 10,90                  | 12                         | 118       | 71        | 56       | 45       | 109 |
| 11,00                  | 12                         | 118       | 71        | 56       | 45       | 110 |
| 11,10                  | 12                         | 118       | 71        | 56       | 45       | 111 |
| 11,20                  | 12                         | 118       | 71        | 56       | 45       | 112 |
| 11,30                  | 12                         | 118       | 71        | 56       | 45       | 113 |
| 11,40                  | 12                         | 118       | 71        | 56       | 45       | 114 |
| 11,50                  | 12                         | 118       | 71        | 56       | 45       | 115 |
| 11,60                  | 12                         | 118       | 71        | 56       | 45       | 116 |
| 11,70                  | 12                         | 118       | 71        | 56       | 45       | 117 |
| 11,80                  | 12                         | 118       | 71        | 56       | 45       | 118 |
| 11,90                  | 12                         | 118       | 71        | 56       | 45       | 119 |
| 12,00                  | 12                         | 118       | 71        | 56       | 45       | 120 |

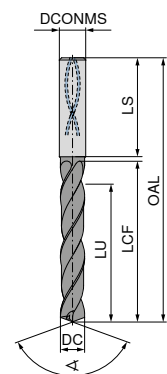
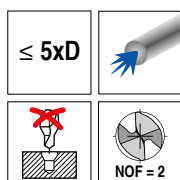
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→ v<sub>c</sub> стр. 41



Другие размеры и свёрла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные свёрла»

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



DRAGONSKIN



Твёрдый сплав

11 786 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 3,00                   | 6                          | 66        | 28        | 23       | 36       | 03000 |
| 3,10                   | 6                          | 66        | 28        | 23       | 36       | 03100 |
| 3,15                   | 6                          | 66        | 28        | 23       | 36       | 03150 |
| 3,20                   | 6                          | 66        | 28        | 23       | 36       | 03200 |
| 3,22                   | 6                          | 66        | 28        | 23       | 36       | 03220 |
| 3,25                   | 6                          | 66        | 28        | 23       | 36       | 03250 |
| 3,30                   | 6                          | 66        | 28        | 23       | 36       | 03300 |
| 3,40                   | 6                          | 66        | 28        | 23       | 36       | 03400 |
| 3,50                   | 6                          | 66        | 28        | 23       | 36       | 03500 |
| 3,60                   | 6                          | 66        | 28        | 23       | 36       | 03600 |
| 3,70                   | 6                          | 66        | 28        | 23       | 36       | 03700 |
| 3,80                   | 6                          | 74        | 36        | 29       | 36       | 03800 |
| 3,85                   | 6                          | 74        | 36        | 29       | 36       | 03850 |
| 3,90                   | 6                          | 74        | 36        | 29       | 36       | 03900 |
| 4,00                   | 6                          | 74        | 36        | 29       | 36       | 04000 |
| 4,10                   | 6                          | 74        | 36        | 29       | 36       | 04100 |
| 4,20                   | 6                          | 74        | 36        | 29       | 36       | 04200 |
| 4,25                   | 6                          | 74        | 36        | 29       | 36       | 04250 |
| 4,30                   | 6                          | 74        | 36        | 29       | 36       | 04300 |
| 4,35                   | 6                          | 74        | 36        | 29       | 36       | 04350 |
| 4,40                   | 6                          | 74        | 36        | 29       | 36       | 04400 |
| 4,45                   | 6                          | 74        | 36        | 29       | 36       | 04450 |
| 4,50                   | 6                          | 74        | 36        | 29       | 36       | 04500 |
| 4,60                   | 6                          | 74        | 36        | 29       | 36       | 04600 |
| 4,65                   | 6                          | 74        | 36        | 29       | 36       | 04650 |
| 4,70                   | 6                          | 74        | 36        | 29       | 36       | 04700 |
| 4,80                   | 6                          | 82        | 44        | 35       | 36       | 04800 |
| 4,90                   | 6                          | 82        | 44        | 35       | 36       | 04900 |
| 4,95                   | 6                          | 82        | 44        | 35       | 36       | 04950 |
| 5,00                   | 6                          | 82        | 44        | 35       | 36       | 05000 |
| 5,05                   | 6                          | 82        | 44        | 35       | 36       | 05050 |
| 5,10                   | 6                          | 82        | 44        | 35       | 36       | 05100 |
| 5,20                   | 6                          | 82        | 44        | 35       | 36       | 05200 |
| 5,30                   | 6                          | 82        | 44        | 35       | 36       | 05300 |
| 5,40                   | 6                          | 82        | 44        | 35       | 36       | 05400 |
| 5,50                   | 6                          | 82        | 44        | 35       | 36       | 05500 |
| 5,55                   | 6                          | 82        | 44        | 35       | 36       | 05550 |
| 5,60                   | 6                          | 82        | 44        | 35       | 36       | 05600 |
| 5,70                   | 6                          | 82        | 44        | 35       | 36       | 05700 |
| 5,75                   | 6                          | 82        | 44        | 35       | 36       | 05750 |
| 5,80                   | 6                          | 82        | 44        | 35       | 36       | 05800 |
| 5,90                   | 6                          | 82        | 44        | 35       | 36       | 05900 |
| 5,95                   | 6                          | 82        | 44        | 35       | 36       | 05950 |
| 6,00                   | 6                          | 82        | 44        | 35       | 36       | 06000 |
| 6,10                   | 8                          | 91        | 53        | 43       | 36       | 06100 |
| 6,20                   | 8                          | 91        | 53        | 43       | 36       | 06200 |
| 6,30                   | 8                          | 91        | 53        | 43       | 36       | 06300 |
| 6,40                   | 8                          | 91        | 53        | 43       | 36       | 06400 |
| 6,50                   | 8                          | 91        | 53        | 43       | 36       | 06500 |
| 6,60                   | 8                          | 91        | 53        | 43       | 36       | 06600 |
| 6,70                   | 8                          | 91        | 53        | 43       | 36       | 06700 |

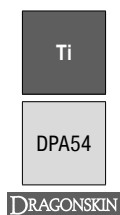
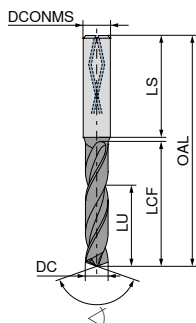
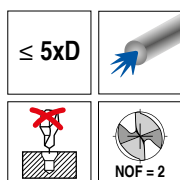
11 786 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 6,80                   | 8                          | 91        | 53        | 43       | 36       | 06800 |
| 6,90                   | 8                          | 91        | 53        | 43       | 36       | 06900 |
| 7,00                   | 8                          | 91        | 53        | 43       | 36       | 07000 |
| 7,10                   | 8                          | 91        | 53        | 43       | 36       | 07100 |
| 7,20                   | 8                          | 91        | 53        | 43       | 36       | 07200 |
| 7,30                   | 8                          | 91        | 53        | 43       | 36       | 07300 |
| 7,40                   | 8                          | 91        | 53        | 43       | 36       | 07400 |
| 7,45                   | 8                          | 91        | 53        | 43       | 36       | 07450 |
| 7,50                   | 8                          | 91        | 53        | 43       | 36       | 07500 |
| 7,60                   | 8                          | 91        | 53        | 43       | 36       | 07600 |
| 7,70                   | 8                          | 91        | 53        | 43       | 36       | 07700 |
| 7,80                   | 8                          | 91        | 53        | 43       | 36       | 07800 |
| 7,90                   | 8                          | 91        | 53        | 43       | 36       | 07900 |
| 8,00                   | 8                          | 91        | 53        | 43       | 36       | 08000 |
| 8,10                   | 10                         | 103       | 61        | 49       | 40       | 08100 |
| 8,20                   | 10                         | 103       | 61        | 49       | 40       | 08200 |
| 8,30                   | 10                         | 103       | 61        | 49       | 40       | 08300 |
| 8,40                   | 10                         | 103       | 61        | 49       | 40       | 08400 |
| 8,50                   | 10                         | 103       | 61        | 49       | 40       | 08500 |
| 8,60                   | 10                         | 103       | 61        | 49       | 40       | 08600 |
| 8,70                   | 10                         | 103       | 61        | 49       | 40       | 08700 |
| 8,80                   | 10                         | 103       | 61        | 49       | 40       | 08800 |
| 8,90                   | 10                         | 103       | 61        | 49       | 40       | 08900 |
| 9,00                   | 10                         | 103       | 61        | 49       | 40       | 09000 |
| 9,10                   | 10                         | 103       | 61        | 49       | 40       | 09100 |
| 9,20                   | 10                         | 103       | 61        | 49       | 40       | 09200 |
| 9,30                   | 10                         | 103       | 61        | 49       | 40       | 09300 |
| 9,35                   | 10                         | 103       | 61        | 49       | 40       | 09350 |
| 9,40                   | 10                         | 103       | 61        | 49       | 40       | 09400 |
| 9,45                   | 10                         | 103       | 61        | 49       | 40       | 09450 |
| 9,50                   | 10                         | 103       | 61        | 49       | 40       | 09500 |
| 9,60                   | 10                         | 103       | 61        | 49       | 40       | 09600 |
| 9,70                   | 10                         | 103       | 61        | 49       | 40       | 09700 |
| 9,80                   | 10                         | 103       | 61        | 49       | 40       | 09800 |
| 9,90                   | 10                         | 103       | 61        | 49       | 40       | 09900 |
| 10,00                  | 10                         | 103       | 61        | 49       | 40       | 10000 |
| 10,10                  | 12                         | 118       | 71        | 56       | 45       | 10100 |
| 10,20                  | 12                         | 118       | 71        | 56       | 45       | 10200 |
| 10,30                  | 12                         | 118       | 71        | 56       | 45       | 10300 |
| 10,40                  | 12                         | 118       | 71        | 56       | 45       | 10400 |
| 10,50                  | 12                         | 118       | 71        | 56       | 45       | 10500 |
| 10,55                  | 12                         | 118       | 71        | 56       | 45       | 10550 |
| 10,60                  | 12                         | 118       | 71        | 56       | 45       | 10600 |
| 10,70                  | 12                         | 118       | 71        | 56       | 45       | 10700 |
| 10,75                  | 12                         | 118       | 71        | 56       | 45       | 10750 |
| 10,80                  | 12                         | 118       | 71        | 56       | 45       | 10800 |
| 10,90                  | 12                         | 118       | 71        | 56       | 45       | 10900 |
| 11,00                  | 12                         | 118       | 71        | 56       | 45       | 11000 |
| 11,10                  | 12                         | 118       | 71        | 56       | 45       | 11100 |
| 11,20                  | 12                         | 118       | 71        | 56       | 45       | 11200 |
| 11,25                  | 12                         | 118       | 71        | 56       | 45       | 11250 |
| 11,30                  | 12                         | 118       | 71        | 56       | 45       | 11300 |
| 11,35                  | 12                         | 118       | 71        | 56       | 45       | 11350 |
| 11,40                  | 12                         | 118       | 71        | 56       | 45       | 11400 |
| 11,45                  | 12                         | 118       | 71        | 56       | 45       | 11450 |
| 11,50                  | 12                         | 118       | 71        | 56       | 45       | 11500 |
| 11,60                  | 12                         | 118       | 71        | 56       | 45       | 11600 |
| 11,70                  | 12                         | 118       | 71        | 56       | 45       | 11700 |
| 11,80                  | 12                         | 118       | 71        | 56       | 45       | 11800 |
| 11,90                  | 12                         | 118       | 71        | 56       | 45       | 11900 |
| 12,00                  | 12                         | 118       | 71        | 56       | 45       | 12000 |

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→ V<sub>c</sub> стр. 34Другие размеры и свёрла см. в нашем → **Общем каталоге,**  
гл. 2 «Твердосплавные свёрла»

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



140°  
Твёрдый сплав

10 787 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 3,00                   | 6                          | 66        | 28        | 23       | 36       | 030 |
| 3,10                   | 6                          | 66        | 28        | 23       | 36       | 031 |
| 3,20                   | 6                          | 66        | 28        | 23       | 36       | 032 |
| 3,30                   | 6                          | 66        | 28        | 23       | 36       | 033 |
| 3,40                   | 6                          | 66        | 28        | 23       | 36       | 034 |
| 3,50                   | 6                          | 66        | 28        | 23       | 36       | 035 |
| 3,60                   | 6                          | 66        | 28        | 23       | 36       | 036 |
| 3,70                   | 6                          | 66        | 28        | 23       | 36       | 037 |
| 3,80                   | 6                          | 74        | 36        | 29       | 36       | 038 |
| 3,90                   | 6                          | 74        | 36        | 29       | 36       | 039 |
| 3,97                   | 6                          | 74        | 36        | 29       | 36       | 900 |
| 4,00                   | 6                          | 74        | 36        | 29       | 36       | 040 |
| 4,10                   | 6                          | 74        | 36        | 29       | 36       | 041 |
| 4,20                   | 6                          | 74        | 36        | 29       | 36       | 042 |
| 4,23                   | 6                          | 74        | 36        | 29       | 36       | 901 |
| 4,30                   | 6                          | 74        | 36        | 29       | 36       | 043 |
| 4,40                   | 6                          | 74        | 36        | 29       | 36       | 044 |
| 4,50                   | 6                          | 74        | 36        | 29       | 36       | 045 |
| 4,60                   | 6                          | 74        | 36        | 29       | 36       | 046 |
| 4,70                   | 6                          | 74        | 36        | 29       | 36       | 047 |
| 4,80                   | 6                          | 82        | 44        | 35       | 36       | 048 |
| 4,90                   | 6                          | 82        | 44        | 35       | 36       | 049 |
| 5,00                   | 6                          | 82        | 44        | 35       | 36       | 050 |
| 5,10                   | 6                          | 82        | 44        | 35       | 36       | 051 |
| 5,20                   | 6                          | 82        | 44        | 35       | 36       | 052 |
| 5,30                   | 6                          | 82        | 44        | 35       | 36       | 053 |
| 5,40                   | 6                          | 82        | 44        | 35       | 36       | 054 |
| 5,50                   | 6                          | 82        | 44        | 35       | 36       | 055 |
| 5,56                   | 6                          | 82        | 44        | 35       | 36       | 902 |
| 5,60                   | 6                          | 82        | 44        | 35       | 36       | 056 |
| 5,70                   | 6                          | 82        | 44        | 35       | 36       | 057 |
| 5,80                   | 6                          | 82        | 44        | 35       | 36       | 058 |
| 5,90                   | 6                          | 82        | 44        | 35       | 36       | 059 |
| 6,00                   | 6                          | 82        | 44        | 35       | 36       | 060 |
| 6,10                   | 8                          | 91        | 53        | 43       | 36       | 061 |
| 6,20                   | 8                          | 91        | 53        | 43       | 36       | 062 |
| 6,30                   | 8                          | 91        | 53        | 43       | 36       | 063 |
| 6,35                   | 8                          | 91        | 53        | 43       | 36       | 903 |
| 6,40                   | 8                          | 91        | 53        | 43       | 36       | 064 |
| 6,50                   | 8                          | 91        | 53        | 43       | 36       | 065 |
| 6,60                   | 8                          | 91        | 53        | 43       | 36       | 066 |
| 6,70                   | 8                          | 91        | 53        | 43       | 36       | 067 |
| 6,80                   | 8                          | 91        | 53        | 43       | 36       | 068 |
| 6,90                   | 8                          | 91        | 53        | 43       | 36       | 069 |
| 7,00                   | 8                          | 91        | 53        | 43       | 36       | 070 |
| 7,10                   | 8                          | 91        | 53        | 43       | 36       | 071 |
| 7,20                   | 8                          | 91        | 53        | 43       | 36       | 072 |
| 7,30                   | 8                          | 91        | 53        | 43       | 36       | 073 |
| 7,40                   | 8                          | 91        | 53        | 43       | 36       | 074 |
| 7,50                   | 8                          | 91        | 53        | 43       | 36       | 075 |
| 7,60                   | 8                          | 91        | 53        | 43       | 36       | 076 |

10 787 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 7,70                   | 8                          | 91        | 53        | 43       | 36       | 077 |
| 7,80                   | 8                          | 91        | 53        | 43       | 36       | 078 |
| 7,90                   | 8                          | 91        | 53        | 43       | 36       | 079 |
| 7,94                   | 8                          | 91        | 53        | 43       | 36       | 904 |
| 8,00                   | 8                          | 91        | 53        | 43       | 36       | 080 |
| 8,10                   | 10                         | 103       | 61        | 49       | 40       | 081 |
| 8,20                   | 10                         | 103       | 61        | 49       | 40       | 082 |
| 8,30                   | 10                         | 103       | 61        | 49       | 40       | 083 |
| 8,40                   | 10                         | 103       | 61        | 49       | 40       | 084 |
| 8,50                   | 10                         | 103       | 61        | 49       | 40       | 085 |
| 8,60                   | 10                         | 103       | 61        | 49       | 40       | 086 |
| 8,70                   | 10                         | 103       | 61        | 49       | 40       | 087 |
| 8,80                   | 10                         | 103       | 61        | 49       | 40       | 088 |
| 8,90                   | 10                         | 103       | 61        | 49       | 40       | 089 |
| 9,00                   | 10                         | 103       | 61        | 49       | 40       | 090 |
| 9,10                   | 10                         | 103       | 61        | 49       | 40       | 091 |
| 9,20                   | 10                         | 103       | 61        | 49       | 40       | 092 |
| 9,30                   | 10                         | 103       | 61        | 49       | 40       | 093 |
| 9,40                   | 10                         | 103       | 61        | 49       | 40       | 094 |
| 9,50                   | 10                         | 103       | 61        | 49       | 40       | 095 |
| 9,53                   | 10                         | 103       | 61        | 49       | 40       | 905 |
| 9,60                   | 10                         | 103       | 61        | 49       | 40       | 096 |
| 9,70                   | 10                         | 103       | 61        | 49       | 40       | 097 |
| 9,80                   | 10                         | 103       | 61        | 49       | 40       | 098 |
| 9,90                   | 10                         | 103       | 61        | 49       | 40       | 099 |
| 10,00                  | 10                         | 103       | 61        | 49       | 40       | 100 |
| 10,10                  | 12                         | 118       | 71        | 54       | 45       | 101 |
| 10,20                  | 12                         | 118       | 71        | 54       | 45       | 102 |
| 10,30                  | 12                         | 118       | 71        | 54       | 45       | 103 |
| 10,40                  | 12                         | 118       | 71        | 54       | 45       | 104 |
| 10,50                  | 12                         | 118       | 71        | 54       | 45       | 105 |
| 10,60                  | 12                         | 118       | 71        | 54       | 45       | 106 |
| 10,70                  | 12                         | 118       | 71        | 54       | 45       | 107 |
| 10,80                  | 12                         | 118       | 71        | 54       | 45       | 108 |
| 10,90                  | 12                         | 118       | 71        | 54       | 45       | 109 |
| 11,00                  | 12                         | 118       | 71        | 54       | 45       | 110 |
| 11,10                  | 12                         | 118       | 71        | 54       | 45       | 111 |
| 11,11                  | 12                         | 118       | 71        | 54       | 45       | 906 |
| 11,20                  | 12                         | 118       | 71        | 54       | 45       | 112 |
| 11,30                  | 12                         | 118       | 71        | 54       | 45       | 113 |
| 11,40                  | 12                         | 118       | 71        | 54       | 45       | 114 |
| 11,50                  | 12                         | 118       | 71        | 54       | 45       | 115 |
| 11,60                  | 12                         | 118       | 71        | 54       | 45       | 116 |
| 11,70                  | 12                         | 118       | 71        | 54       | 45       | 117 |
| 11,80                  | 12                         | 118       | 71        | 54       | 45       | 118 |
| 11,90                  | 12                         | 118       | 71        | 54       | 45       | 119 |
| 12,00                  | 12                         | 118       | 71        | 54       | 45       | 120 |

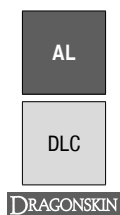
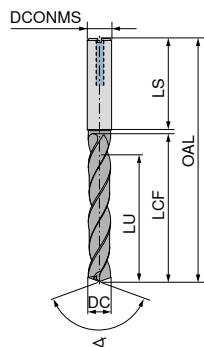
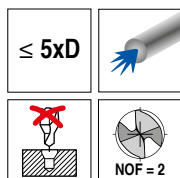
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→ v<sub>c</sub> стр. 35



Другие размеры и свёрла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные свёрла»

## WTX – Высокопроизводительное твердосплавное сверло, DIN 6537



135°  
Твёрдый сплав

10 791 ...

| DC <sub>h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 2,5                    | 4                          | 57        | 21        | 17       | 28       | 02500 |
| 2,6                    | 4                          | 57        | 21        | 17       | 28       | 02600 |
| 2,7                    | 4                          | 57        | 21        | 17       | 28       | 02700 |
| 2,8                    | 4                          | 57        | 21        | 17       | 28       | 02800 |
| 2,9                    | 4                          | 57        | 21        | 17       | 28       | 02900 |
| 3,0                    | 6                          | 66        | 28        | 23       | 36       | 03000 |
| 3,1                    | 6                          | 66        | 28        | 23       | 36       | 03100 |
| 3,2                    | 6                          | 66        | 28        | 23       | 36       | 03200 |
| 3,3                    | 6                          | 66        | 28        | 23       | 36       | 03300 |
| 3,4                    | 6                          | 66        | 28        | 23       | 36       | 03400 |
| 3,5                    | 6                          | 66        | 28        | 23       | 36       | 03500 |
| 3,6                    | 6                          | 66        | 28        | 23       | 36       | 03600 |
| 3,7                    | 6                          | 66        | 28        | 23       | 36       | 03700 |
| 3,8                    | 6                          | 74        | 36        | 29       | 36       | 03800 |
| 3,9                    | 6                          | 74        | 36        | 29       | 36       | 03900 |
| 4,0                    | 6                          | 74        | 36        | 29       | 36       | 04000 |
| 4,1                    | 6                          | 74        | 36        | 29       | 36       | 04100 |
| 4,2                    | 6                          | 74        | 36        | 29       | 36       | 04200 |
| 4,3                    | 6                          | 74        | 36        | 29       | 36       | 04300 |
| 4,4                    | 6                          | 74        | 36        | 29       | 36       | 04400 |
| 4,5                    | 6                          | 74        | 36        | 29       | 36       | 04500 |
| 4,6                    | 6                          | 74        | 36        | 29       | 36       | 04600 |
| 4,7                    | 6                          | 74        | 36        | 29       | 36       | 04700 |
| 4,8                    | 6                          | 82        | 44        | 35       | 36       | 04800 |
| 4,9                    | 6                          | 82        | 44        | 35       | 36       | 04900 |
| 5,0                    | 6                          | 82        | 44        | 35       | 36       | 05000 |
| 5,1                    | 6                          | 82        | 44        | 35       | 36       | 05100 |
| 5,2                    | 6                          | 82        | 44        | 35       | 36       | 05200 |
| 5,3                    | 6                          | 82        | 44        | 35       | 36       | 05300 |
| 5,4                    | 6                          | 82        | 44        | 35       | 36       | 05400 |
| 5,5                    | 6                          | 82        | 44        | 35       | 36       | 05500 |
| 5,6                    | 6                          | 82        | 44        | 35       | 36       | 05600 |
| 5,7                    | 6                          | 82        | 44        | 35       | 36       | 05700 |
| 5,8                    | 6                          | 82        | 44        | 35       | 36       | 05800 |
| 5,9                    | 6                          | 82        | 44        | 35       | 36       | 05900 |
| 6,0                    | 6                          | 82        | 44        | 35       | 36       | 06000 |
| 6,1                    | 8                          | 91        | 53        | 43       | 36       | 06100 |
| 6,2                    | 8                          | 91        | 53        | 43       | 36       | 06200 |
| 6,3                    | 8                          | 91        | 53        | 43       | 36       | 06300 |
| 6,4                    | 8                          | 91        | 53        | 43       | 36       | 06400 |
| 6,5                    | 8                          | 91        | 53        | 43       | 36       | 06500 |
| 6,6                    | 8                          | 91        | 53        | 43       | 36       | 06600 |
| 6,7                    | 8                          | 91        | 53        | 43       | 36       | 06700 |
| 6,8                    | 8                          | 91        | 53        | 43       | 36       | 06800 |
| 6,9                    | 8                          | 91        | 53        | 43       | 36       | 06900 |
| 7,0                    | 8                          | 91        | 53        | 43       | 36       | 07000 |
| 7,1                    | 8                          | 91        | 53        | 43       | 36       | 07100 |
| 7,2                    | 8                          | 91        | 53        | 43       | 36       | 07200 |
| 7,3                    | 8                          | 91        | 53        | 43       | 36       | 07300 |
| 7,4                    | 8                          | 91        | 53        | 43       | 36       | 07400 |
| 7,5                    | 8                          | 91        | 53        | 43       | 36       | 07500 |

10 791 ...

| DC <sub>h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|----------|-------|
| 7,6                    | 8                          | 91        | 53        | 43       | 36       | 07600 |
| 7,7                    | 8                          | 91        | 53        | 43       | 36       | 07700 |
| 7,8                    | 8                          | 91        | 53        | 43       | 36       | 07800 |
| 7,9                    | 8                          | 91        | 53        | 43       | 36       | 07900 |
| 8,0                    | 8                          | 91        | 53        | 43       | 36       | 08000 |
| 8,1                    | 10                         | 103       | 61        | 49       | 40       | 08100 |
| 8,2                    | 10                         | 103       | 61        | 49       | 40       | 08200 |
| 8,3                    | 10                         | 103       | 61        | 49       | 40       | 08300 |
| 8,4                    | 10                         | 103       | 61        | 49       | 40       | 08400 |
| 8,5                    | 10                         | 103       | 61        | 49       | 40       | 08500 |
| 8,6                    | 10                         | 103       | 61        | 49       | 40       | 08600 |
| 8,7                    | 10                         | 103       | 61        | 49       | 40       | 08700 |
| 8,8                    | 10                         | 103       | 61        | 49       | 40       | 08800 |
| 8,9                    | 10                         | 103       | 61        | 49       | 40       | 08900 |
| 9,0                    | 10                         | 103       | 61        | 49       | 40       | 09000 |
| 9,1                    | 10                         | 103       | 61        | 49       | 40       | 09100 |
| 9,2                    | 10                         | 103       | 61        | 49       | 40       | 09200 |
| 9,3                    | 10                         | 103       | 61        | 49       | 40       | 09300 |
| 9,4                    | 10                         | 103       | 61        | 49       | 40       | 09400 |
| 9,5                    | 10                         | 103       | 61        | 49       | 40       | 09500 |
| 9,6                    | 10                         | 103       | 61        | 49       | 40       | 09600 |
| 9,7                    | 10                         | 103       | 61        | 49       | 40       | 09700 |
| 9,8                    | 10                         | 103       | 61        | 49       | 40       | 09800 |
| 9,9                    | 10                         | 103       | 61        | 49       | 40       | 09900 |
| 10,0                   | 10                         | 103       | 61        | 49       | 40       | 10000 |
| 10,1                   | 12                         | 118       | 71        | 56       | 45       | 10100 |
| 10,2                   | 12                         | 118       | 71        | 56       | 45       | 10200 |
| 10,3                   | 12                         | 118       | 71        | 56       | 45       | 10300 |
| 10,4                   | 12                         | 118       | 71        | 56       | 45       | 10400 |
| 10,5                   | 12                         | 118       | 71        | 56       | 45       | 10500 |
| 10,6                   | 12                         | 118       | 71        | 56       | 45       | 10600 |
| 10,7                   | 12                         | 118       | 71        | 56       | 45       | 10700 |
| 10,8                   | 12                         | 118       | 71        | 56       | 45       | 10800 |
| 11,0                   | 12                         | 118       | 71        | 56       | 45       | 11000 |
| 11,1                   | 12                         | 118       | 71        | 56       | 45       | 11100 |
| 11,2                   | 12                         | 118       | 71        | 56       | 45       | 11200 |
| 11,3                   | 12                         | 118       | 71        | 56       | 45       | 11300 |
| 11,4                   | 12                         | 118       | 71        | 56       | 45       | 11400 |
| 11,5                   | 12                         | 118       | 71        | 56       | 45       | 11500 |
| 11,7                   | 12                         | 118       | 71        | 56       | 45       | 11700 |
| 11,8                   | 12                         | 118       | 71        | 56       | 45       | 11800 |
| 12,0                   | 12                         | 118       | 71        | 56       | 45       | 12000 |

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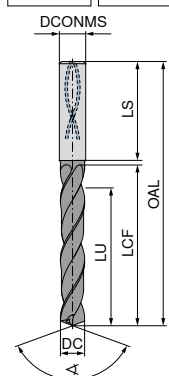
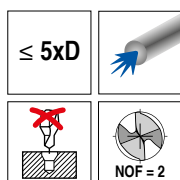
→ v. стр. 35



Другие размеры и свёрла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные свёрла»



## WPC – Высокопроизводительное твердосплавное сверло, DIN 6537



Твёрдый сплав

11 609 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 1,00                   | 4                          | 45        | 8,0       | 6,5      | 30,0     | 010 |
| 1,10                   | 4                          | 45        | 8,8       | 7,2      | 29,0     | 011 |
| 1,20                   | 4                          | 45        | 9,6       | 7,8      | 29,0     | 012 |
| 1,30                   | 4                          | 45        | 10,4      | 8,5      | 28,5     | 013 |
| 1,40                   | 4                          | 45        | 11,2      | 9,1      | 28,0     | 014 |
| 1,50                   | 4                          | 50        | 12,0      | 9,8      | 32,0     | 015 |
| 1,60                   | 4                          | 50        | 12,8      | 10,4     | 31,0     | 016 |
| 1,70                   | 4                          | 50        | 13,6      | 11,1     | 30,5     | 017 |
| 1,80                   | 4                          | 50        | 14,4      | 11,7     | 30,0     | 018 |
| 1,90                   | 4                          | 50        | 15,2      | 12,4     | 29,5     | 019 |
| 2,00                   | 4                          | 50        | 16,0      | 13,0     | 29,0     | 020 |
| 2,10                   | 4                          | 55        | 16,8      | 13,7     | 33,0     | 021 |
| 2,20                   | 4                          | 55        | 17,6      | 14,3     | 32,5     | 022 |
| 2,30                   | 4                          | 55        | 18,4      | 15,0     | 32,0     | 023 |
| 2,40                   | 4                          | 55        | 19,2      | 15,6     | 31,5     | 024 |
| 2,50                   | 4                          | 55        | 20,0      | 16,3     | 30,5     | 025 |
| 2,60                   | 4                          | 55        | 20,8      | 16,9     | 30,0     | 026 |
| 2,70                   | 4                          | 55        | 21,6      | 17,6     | 29,0     | 027 |
| 2,80                   | 4                          | 55        | 22,4      | 18,2     | 29,0     | 028 |
| 2,90                   | 4                          | 55        | 23,2      | 18,9     | 28,5     | 029 |
| 3,00                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 030 |
| 3,10                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 031 |
| 3,20                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 032 |
| 3,25                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 890 |
| 3,30                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 033 |
| 3,40                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 034 |
| 3,50                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 035 |
| 3,60                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 036 |
| 3,70                   | 6                          | 66        | 28,0      | 23,0     | 36,0     | 037 |
| 3,80                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 038 |
| 3,90                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 039 |
| 4,00                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 040 |
| 4,10                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 041 |
| 4,20                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 042 |
| 4,30                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 043 |
| 4,40                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 044 |
| 4,50                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 045 |
| 4,60                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 046 |
| 4,65                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 900 |
| 4,70                   | 6                          | 74        | 36,0      | 29,0     | 36,0     | 047 |
| 4,80                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 048 |
| 4,90                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 049 |
| 5,00                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 050 |
| 5,10                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 051 |
| 5,20                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 052 |
| 5,30                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 053 |
| 5,40                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 054 |
| 5,50                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 055 |
| 5,55                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 902 |
| 5,60                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 056 |
| 5,70                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 057 |
| 5,80                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 058 |
| 5,90                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 059 |
| 6,00                   | 6                          | 82        | 44,0      | 35,0     | 36,0     | 060 |
| 6,10                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 061 |
| 6,20                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 062 |

11 609 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 6,30                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 063 |
| 6,40                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 064 |
| 6,50                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 065 |
| 6,60                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 066 |
| 6,70                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 067 |
| 6,80                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 068 |
| 6,90                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 069 |
| 7,00                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 070 |
| 7,10                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 071 |
| 7,20                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 072 |
| 7,30                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 073 |
| 7,40                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 074 |
| 7,45                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 924 |
| 7,50                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 075 |
| 7,55                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 975 |
| 7,60                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 076 |
| 7,70                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 077 |
| 7,80                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 078 |
| 7,90                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 079 |
| 8,00                   | 8                          | 91        | 53,0      | 43,0     | 36,0     | 080 |
| 8,10                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 081 |
| 8,20                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 082 |
| 8,30                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 083 |
| 8,40                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 084 |
| 8,50                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 085 |
| 8,60                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 086 |
| 8,70                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 087 |
| 8,80                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 088 |
| 8,90                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 089 |
| 9,00                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 090 |
| 9,10                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 091 |
| 9,20                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 092 |
| 9,25                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 925 |
| 9,30                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 093 |
| 9,35                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 930 |
| 9,40                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 094 |
| 9,50                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 095 |
| 9,60                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 096 |
| 9,70                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 097 |
| 9,80                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 098 |
| 9,90                   | 10                         | 103       | 61,0      | 49,0     | 40,0     | 099 |
| 10,00                  | 10                         | 103       | 61,0      | 49,0     | 40,0     | 100 |
| 10,10                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 101 |
| 10,20                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 102 |
| 10,30                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 103 |
| 10,40                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 104 |
| 10,50                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 105 |
| 10,60                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 106 |
| 10,70                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 107 |
| 10,75                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 904 |
| 10,80                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 108 |
| 10,90                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 109 |
| 11,00                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 110 |
| 11,10                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 111 |
| 11,20                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 112 |
| 11,25                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 912 |
| 11,30                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 113 |
| 11,40                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 114 |
| 11,50                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 115 |
| 11,60                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 116 |
| 11,70                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 117 |
| 11,80                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 118 |
| 11,90                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 119 |
| 12,00                  | 12                         | 118       | 71,0      | 56,0     | 45,0     | 120 |

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→ v<sub>c</sub> стр. 41Другие размеры и сверла см. в нашем → **Общем каталоге**,  
гл. 2 «Твердосплавные сверла»

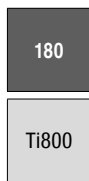
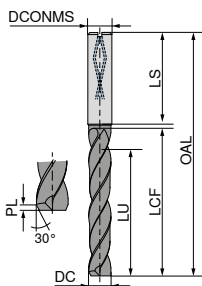
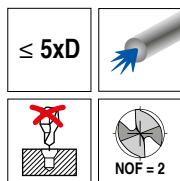


## WTH – Высокопроизводительное твердосплавное сверло, DIN 6537

- ▲ Универсальное применение
- ▲ Четыре направляющие ленточки

- ▲ Полированные стружечные канавки
- ▲ Тип ALU 5xD по запросу

- ▲ PL = размер фаски



НА   
Твёрдый сплав

10 721 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm | PL<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|----------|-----|
| 3,00                   | 6                          | 66        | 28        | 23       | 36       | 0,15     | 030 |
| 3,10                   | 6                          | 66        | 28        | 23       | 36       | 0,16     | 031 |
| 3,20                   | 6                          | 66        | 28        | 23       | 36       | 0,16     | 032 |
| 3,30                   | 6                          | 66        | 28        | 23       | 36       | 0,17     | 033 |
| 3,40                   | 6                          | 66        | 28        | 23       | 36       | 0,17     | 034 |
| 3,50                   | 6                          | 66        | 28        | 23       | 36       | 0,18     | 035 |
| 3,60                   | 6                          | 66        | 28        | 23       | 36       | 0,18     | 036 |
| 3,70                   | 6                          | 66        | 28        | 23       | 36       | 0,19     | 037 |
| 3,80                   | 6                          | 74        | 36        | 29       | 36       | 0,19     | 038 |
| 3,90                   | 6                          | 74        | 36        | 29       | 36       | 0,20     | 039 |
| 4,00                   | 6                          | 74        | 36        | 29       | 36       | 0,20     | 040 |
| 4,10                   | 6                          | 74        | 36        | 29       | 36       | 0,21     | 041 |
| 4,20                   | 6                          | 74        | 36        | 29       | 36       | 0,21     | 042 |
| 4,30                   | 6                          | 74        | 36        | 29       | 36       | 0,22     | 043 |
| 4,40                   | 6                          | 74        | 36        | 29       | 36       | 0,22     | 044 |
| 4,50                   | 6                          | 74        | 36        | 29       | 36       | 0,23     | 045 |
| 4,60                   | 6                          | 74        | 36        | 29       | 36       | 0,23     | 046 |
| 4,65                   | 6                          | 74        | 36        | 29       | 36       | 0,23     | 900 |
| 4,70                   | 6                          | 74        | 36        | 29       | 36       | 0,24     | 047 |
| 4,80                   | 6                          | 82        | 44        | 35       | 36       | 0,24     | 048 |
| 4,90                   | 6                          | 82        | 44        | 35       | 36       | 0,25     | 049 |
| 5,00                   | 6                          | 82        | 44        | 35       | 36       | 0,25     | 050 |
| 5,10                   | 6                          | 82        | 44        | 35       | 36       | 0,26     | 051 |
| 5,20                   | 6                          | 82        | 44        | 35       | 36       | 0,26     | 052 |
| 5,30                   | 6                          | 82        | 44        | 35       | 36       | 0,27     | 053 |
| 5,40                   | 6                          | 82        | 44        | 35       | 36       | 0,27     | 054 |
| 5,50                   | 6                          | 82        | 44        | 35       | 36       | 0,28     | 055 |
| 5,55                   | 6                          | 82        | 44        | 35       | 36       | 0,28     | 902 |
| 5,60                   | 6                          | 82        | 44        | 35       | 36       | 0,28     | 056 |
| 5,70                   | 6                          | 82        | 44        | 35       | 36       | 0,29     | 057 |
| 5,80                   | 6                          | 82        | 44        | 35       | 36       | 0,29     | 058 |
| 5,90                   | 6                          | 82        | 44        | 35       | 36       | 0,30     | 059 |
| 6,00                   | 6                          | 82        | 44        | 35       | 36       | 0,30     | 060 |
| 6,10                   | 8                          | 91        | 53        | 43       | 36       | 0,31     | 061 |
| 6,20                   | 8                          | 91        | 53        | 43       | 36       | 0,31     | 062 |
| 6,30                   | 8                          | 91        | 53        | 43       | 36       | 0,32     | 063 |
| 6,40                   | 8                          | 91        | 53        | 43       | 36       | 0,32     | 064 |
| 6,50                   | 8                          | 91        | 53        | 43       | 36       | 0,33     | 065 |
| 6,60                   | 8                          | 91        | 53        | 43       | 36       | 0,33     | 066 |
| 6,70                   | 8                          | 91        | 53        | 43       | 36       | 0,34     | 067 |
| 6,80                   | 8                          | 91        | 53        | 43       | 36       | 0,34     | 068 |
| 6,90                   | 8                          | 91        | 53        | 43       | 36       | 0,35     | 069 |
| 7,00                   | 8                          | 91        | 53        | 43       | 36       | 0,35     | 070 |
| 7,10                   | 8                          | 91        | 53        | 43       | 36       | 0,36     | 071 |
| 7,20                   | 8                          | 91        | 53        | 43       | 36       | 0,36     | 072 |
| 7,30                   | 8                          | 91        | 53        | 43       | 36       | 0,37     | 073 |
| 7,40                   | 8                          | 91        | 53        | 43       | 36       | 0,37     | 074 |
| 7,50                   | 8                          | 91        | 53        | 43       | 36       | 0,38     | 075 |
| 7,60                   | 8                          | 91        | 53        | 43       | 36       | 0,38     | 076 |
| 7,70                   | 8                          | 91        | 53        | 43       | 36       | 0,39     | 077 |
| 7,80                   | 8                          | 91        | 53        | 43       | 36       | 0,39     | 078 |
| 7,90                   | 8                          | 91        | 53        | 43       | 36       | 0,40     | 079 |
| 8,00                   | 8                          | 91        | 53        | 43       | 36       | 0,40     | 080 |
| 8,10                   | 10                         | 103       | 61        | 49       | 40       | 0,41     | 081 |

10 721 ...

| DC <sub>m7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm | PL<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|----------|-----|
| 8,20                   | 10                         | 103       | 61        | 49       | 40       | 0,41     | 082 |
| 8,30                   | 10                         | 103       | 61        | 49       | 40       | 0,42     | 083 |
| 8,40                   | 10                         | 103       | 61        | 49       | 40       | 0,42     | 084 |
| 8,50                   | 10                         | 103       | 61        | 49       | 40       | 0,43     | 085 |
| 8,60                   | 10                         | 103       | 61        | 49       | 40       | 0,43     | 086 |
| 8,70                   | 10                         | 103       | 61        | 49       | 40       | 0,44     | 087 |
| 8,80                   | 10                         | 103       | 61        | 49       | 40       | 0,44     | 088 |
| 8,90                   | 10                         | 103       | 61        | 49       | 40       | 0,45     | 089 |
| 9,00                   | 10                         | 103       | 61        | 49       | 40       | 0,45     | 090 |
| 9,10                   | 10                         | 103       | 61        | 49       | 40       | 0,46     | 091 |
| 9,20                   | 10                         | 103       | 61        | 49       | 40       | 0,46     | 092 |
| 9,30                   | 10                         | 103       | 61        | 49       | 40       | 0,47     | 093 |
| 9,40                   | 10                         | 103       | 61        | 49       | 40       | 0,47     | 094 |
| 9,50                   | 10                         | 103       | 61        | 49       | 40       | 0,48     | 095 |
| 9,60                   | 10                         | 103       | 61        | 49       | 40       | 0,48     | 096 |
| 9,70                   | 10                         | 103       | 61        | 49       | 40       | 0,49     | 097 |
| 9,80                   | 10                         | 103       | 61        | 49       | 40       | 0,49     | 098 |
| 9,90                   | 10                         | 103       | 61        | 49       | 40       | 0,50     | 099 |
| 10,00                  | 10                         | 103       | 61        | 49       | 40       | 0,50     | 100 |
| 10,10                  | 12                         | 116       | 69        | 54       | 45       | 0,51     | 101 |
| 10,20                  | 12                         | 116       | 69        | 54       | 45       | 0,51     | 102 |
| 10,30                  | 12                         | 116       | 69        | 54       | 45       | 0,52     | 103 |
| 10,40                  | 12                         | 116       | 69        | 54       | 45       | 0,52     | 104 |
| 10,50                  | 12                         | 116       | 69        | 54       | 45       | 0,53     | 105 |
| 10,60                  | 12                         | 116       | 69        | 54       | 45       | 0,53     | 106 |
| 10,70                  | 12                         | 116       | 69        | 54       | 45       | 0,54     | 107 |
| 10,80                  | 12                         | 116       | 69        | 54       | 45       | 0,54     | 108 |
| 10,90                  | 12                         | 116       | 69        | 54       | 45       | 0,55     | 109 |
| 11,00                  | 12                         | 116       | 69        | 54       | 45       | 0,55     | 110 |
| 11,10                  | 12                         | 116       | 69        | 54       | 45       | 0,56     | 111 |
| 11,20                  | 12                         | 116       | 69        | 54       | 45       | 0,56     | 112 |
| 11,30                  | 12                         | 116       | 69        | 54       | 45       | 0,57     | 113 |
| 11,40                  | 12                         | 116       | 69        | 54       | 45       | 0,57     | 114 |
| 11,50                  | 12                         | 116       | 69        | 54       | 45       | 0,58     | 115 |
| 11,60                  | 12                         | 116       | 69        | 54       | 45       | 0,58     | 116 |
| 11,70                  | 12                         | 116       | 69        | 54       | 45       | 0,59     | 117 |
| 11,80                  | 12                         | 116       | 69        | 54       | 45       | 0,59     | 118 |
| 11,90                  | 12                         | 116       | 69        | 54       | 45       | 0,60     | 119 |
| 12,00                  | 12                         | 116       | 69        | 54       | 45       | 0,60     | 120 |

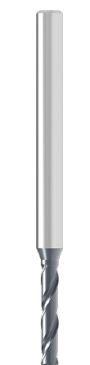
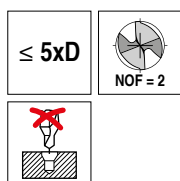
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→ v<sub>c</sub> стр. 39

Другие размеры и свёрла см. в нашем → **Общем каталоге, гл. 2 «Твердосплавные свёрла»**

## WTX – Высокопроизводительное твердосплавное сверло

▲ Унифицированный хвостовик Ø 3 мм h6 для использования в термопатроне



140°  
Твёрдый сплав

11 770 ...

| DC <sub>+0,004</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm |       |
|----------------------------|----------------------------|-----------|-----------|----------|-------|
| 0,10                       | 3                          | 38        | 1,2       | 1,0      | 00100 |
| 0,15                       | 3                          | 38        | 2,0       | 1,7      | 00150 |
| 0,20                       | 3                          | 38        | 3,5       | 3,0      | 00200 |
| 0,25                       | 3                          | 38        | 3,5       | 3,0      | 00250 |
| 0,30                       | 3                          | 38        | 5,5       | 5,0      | 00300 |
| 0,35                       | 3                          | 38        | 5,5       | 5,0      | 00350 |
| 0,40                       | 3                          | 38        | 7,0       | 6,0      | 00400 |
| 0,45                       | 3                          | 38        | 7,0       | 6,0      | 00450 |
| 0,50                       | 3                          | 38        | 7,0       | 6,0      | 00500 |
| 0,55                       | 3                          | 38        | 7,0       | 6,0      | 00550 |
| 0,60                       | 3                          | 38        | 7,0       | 6,0      | 00600 |
| 0,65                       | 3                          | 38        | 7,0       | 6,0      | 00650 |
| 0,70                       | 3                          | 38        | 10,5      | 8,0      | 00700 |
| 0,75                       | 3                          | 38        | 10,5      | 8,0      | 00750 |
| 0,80                       | 3                          | 38        | 10,5      | 8,0      | 00800 |
| 0,85                       | 3                          | 38        | 10,5      | 8,0      | 00850 |
| 0,90                       | 3                          | 38        | 10,5      | 8,0      | 00900 |
| 0,95                       | 3                          | 38        | 10,5      | 8,0      | 00950 |
| 0,97                       | 3                          | 38        | 10,5      | 8,0      | 00970 |
| 0,98                       | 3                          | 38        | 10,5      | 8,0      | 00980 |
| 0,99                       | 3                          | 38        | 10,5      | 8,0      | 00990 |
| 1,00                       | 3                          | 38        | 10,5      | 8,0      | 01000 |
| 1,01                       | 3                          | 38        | 10,5      | 8,0      | 01010 |
| 1,02                       | 3                          | 38        | 10,5      | 8,0      | 01020 |
| 1,03                       | 3                          | 38        | 10,5      | 8,0      | 01030 |
| 1,05                       | 3                          | 38        | 10,5      | 8,0      | 01050 |
| 1,10                       | 3                          | 38        | 10,5      | 8,0      | 01100 |
| 1,15                       | 3                          | 38        | 10,5      | 8,0      | 01150 |
| 1,20                       | 3                          | 38        | 10,5      | 8,0      | 01200 |
| 1,25                       | 3                          | 38        | 10,5      | 8,0      | 01250 |
| 1,30                       | 3                          | 38        | 10,5      | 8,0      | 01300 |
| 1,35                       | 3                          | 38        | 10,5      | 8,0      | 01350 |
| 1,40                       | 3                          | 38        | 10,5      | 8,0      | 01400 |
| 1,45                       | 3                          | 38        | 10,5      | 8,0      | 01450 |
| 1,47                       | 3                          | 38        | 10,5      | 8,0      | 01470 |
| 1,48                       | 3                          | 38        | 10,5      | 8,0      | 01480 |
| 1,49                       | 3                          | 38        | 10,5      | 8,0      | 01490 |
| 1,50                       | 3                          | 38        | 10,5      | 8,0      | 01500 |
| 1,51                       | 3                          | 38        | 10,5      | 8,0      | 01510 |
| 1,52                       | 3                          | 38        | 10,5      | 8,0      | 01520 |
| 1,53                       | 3                          | 38        | 10,5      | 8,0      | 01530 |
| 1,55                       | 3                          | 38        | 10,5      | 8,0      | 01550 |
| 1,60                       | 3                          | 38        | 10,5      | 8,0      | 01600 |
| 1,65                       | 3                          | 38        | 10,5      | 8,0      | 01650 |
| 1,70                       | 3                          | 38        | 10,5      | 8,0      | 01700 |
| 1,75                       | 3                          | 38        | 10,5      | 8,0      | 01750 |

11 770 ...

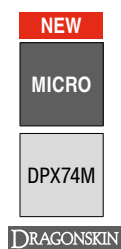
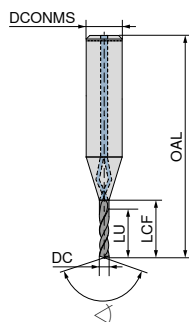
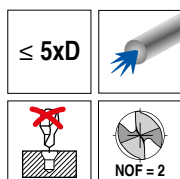
| DC <sub>+0,004</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm |       |
|----------------------------|----------------------------|-----------|-----------|----------|-------|
| 1,80                       | 3                          | 38        | 10,5      | 8,0      | 01800 |
| 1,85                       | 3                          | 38        | 12,0      | 8,0      | 01850 |
| 1,90                       | 3                          | 38        | 12,0      | 8,0      | 01900 |
| 1,95                       | 3                          | 38        | 12,0      | 8,0      | 01950 |
| 1,97                       | 3                          | 38        | 12,0      | 8,0      | 01970 |
| 1,98                       | 3                          | 38        | 12,0      | 8,0      | 01980 |
| 1,99                       | 3                          | 38        | 12,0      | 8,0      | 01990 |
| 2,00                       | 3                          | 42        | 13,0      | 9,0      | 02000 |
| 2,01                       | 3                          | 42        | 13,0      | 9,0      | 02010 |
| 2,02                       | 3                          | 42        | 13,0      | 9,0      | 02020 |
| 2,03                       | 3                          | 42        | 13,0      | 9,0      | 02030 |
| 2,05                       | 3                          | 42        | 13,0      | 9,0      | 02050 |
| 2,10                       | 3                          | 42        | 13,0      | 9,0      | 02100 |
| 2,15                       | 3                          | 42        | 13,0      | 9,0      | 02150 |
| 2,20                       | 3                          | 46        | 15,0      | 10,0     | 02200 |
| 2,25                       | 3                          | 46        | 15,0      | 10,0     | 02250 |
| 2,30                       | 3                          | 46        | 15,0      | 10,0     | 02300 |
| 2,35                       | 3                          | 46        | 15,0      | 10,0     | 02350 |
| 2,40                       | 3                          | 46        | 15,0      | 10,0     | 02400 |
| 2,45                       | 3                          | 46        | 15,0      | 10,0     | 02450 |
| 2,47                       | 3                          | 46        | 15,0      | 10,0     | 02470 |
| 2,48                       | 3                          | 46        | 15,0      | 10,0     | 02480 |
| 2,49                       | 3                          | 46        | 15,0      | 10,0     | 02490 |
| 2,50                       | 3                          | 46        | 15,0      | 10,0     | 02500 |
| 2,51                       | 3                          | 46        | 15,0      | 10,0     | 02510 |
| 2,52                       | 3                          | 46        | 15,0      | 10,0     | 02520 |
| 2,53                       | 3                          | 46        | 15,0      | 10,0     | 02530 |
| 2,60                       | 3                          | 46        | 15,0      | 10,0     | 02600 |
| 2,70                       | 3                          | 46        | 15,0      | 10,0     | 02700 |
| 2,80                       | 3                          | 46        | 15,0      | 10,0     | 02800 |
| 2,90                       | 3                          | 46        | 15,0      | 10,0     | 02900 |

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→ v<sub>c</sub> стр. 36

## WTX – Высокопроизводительное твердосплавное сверло

- ▲ Микросверло в специсполнении
- ▲ Универсальное применение
- ▲ Высокая надёжность производственных процессов
- ▲ Сверло для пилотных отверстий – высокопроизводительное сверло для глубокого сверления WTX-Micro



Твёрдый сплав  
10 693 ...

| DC <sub>m6</sub><br>mm | DCONMS <sub>n6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|-------|
| 0,8                    | 3                          | 39        | 5,6       | 4,0      | 00800 |
| 0,9                    | 3                          | 39        | 6,3       | 4,5      | 00900 |
| 1,0                    | 3                          | 40        | 7,0       | 5,0      | 01000 |
| 1,1                    | 3                          | 41        | 7,7       | 5,5      | 01100 |
| 1,2                    | 3                          | 41        | 8,4       | 6,0      | 01200 |
| 1,3                    | 3                          | 42        | 9,1       | 6,5      | 01300 |
| 1,4                    | 3                          | 42        | 9,8       | 7,0      | 01400 |
| 1,5                    | 3                          | 43        | 10,5      | 7,5      | 01500 |
| 1,6                    | 3                          | 44        | 11,2      | 8,0      | 01600 |
| 1,7                    | 3                          | 44        | 11,9      | 8,5      | 01700 |
| 1,8                    | 3                          | 45        | 12,6      | 9,0      | 01800 |
| 1,9                    | 3                          | 45        | 13,3      | 9,5      | 01900 |
| 2,0                    | 3                          | 46        | 14,0      | 10,0     | 02000 |
| 2,1                    | 3                          | 47        | 14,7      | 10,5     | 02100 |
| 2,2                    | 3                          | 47        | 15,4      | 11,0     | 02200 |
| 2,3                    | 3                          | 48        | 16,1      | 11,5     | 02300 |
| 2,4                    | 3                          | 48        | 16,8      | 12,0     | 02400 |
| 2,5                    | 3                          | 49        | 17,5      | 12,5     | 02500 |
| 2,6                    | 3                          | 50        | 18,2      | 13,0     | 02600 |
| 2,7                    | 3                          | 50        | 18,9      | 13,5     | 02700 |
| 2,8                    | 3                          | 51        | 19,6      | 14,0     | 02800 |
| 2,9                    | 3                          | 51        | 20,3      | 14,5     | 02900 |

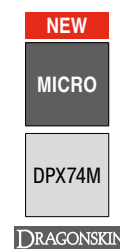
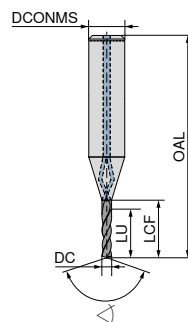
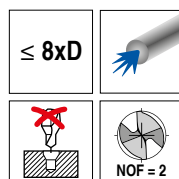
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→ v<sub>c</sub> стр. 36

Минимальное давление СОЖ: 30 бар

## WTX – Высокопроизводительное твердосплавное сверло

- ▲ Микросверло в специсполнении
- ▲ Универсальное применение
- ▲ Высокая надёжность производственных процессов



Твёрдый сплав  
10 694 ...

| DC <sub>n6</sub><br>mm | DCONMS <sub>n6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|-------|
| 0,8                    | 3                          | 41        | 8         | 6,4      | 00800 |
| 0,9                    | 3                          | 42        | 9         | 7,2      | 00900 |
| 1,0                    | 3                          | 43        | 10        | 8,0      | 01000 |
| 1,1                    | 3                          | 44        | 11        | 8,8      | 01100 |
| 1,2                    | 3                          | 45        | 12        | 9,6      | 01200 |
| 1,3                    | 3                          | 46        | 13        | 10,4     | 01300 |
| 1,4                    | 3                          | 47        | 14        | 11,2     | 01400 |
| 1,5                    | 3                          | 47        | 15        | 12,0     | 01500 |
| 1,6                    | 3                          | 48        | 16        | 12,8     | 01600 |
| 1,7                    | 3                          | 49        | 17        | 13,6     | 01700 |
| 1,8                    | 3                          | 50        | 18        | 14,4     | 01800 |
| 1,9                    | 3                          | 51        | 19        | 15,2     | 01900 |
| 2,0                    | 3                          | 52        | 20        | 16,0     | 02000 |
| 2,1                    | 3                          | 53        | 21        | 16,8     | 02100 |
| 2,2                    | 3                          | 54        | 22        | 17,6     | 02200 |
| 2,3                    | 3                          | 55        | 23        | 18,4     | 02300 |
| 2,4                    | 3                          | 56        | 24        | 19,2     | 02400 |
| 2,5                    | 3                          | 56        | 25        | 20,0     | 02500 |
| 2,6                    | 3                          | 57        | 26        | 20,8     | 02600 |
| 2,7                    | 3                          | 58        | 27        | 21,6     | 02700 |
| 2,8                    | 3                          | 59        | 28        | 22,4     | 02800 |
| 2,9                    | 3                          | 60        | 29        | 23,2     | 02900 |

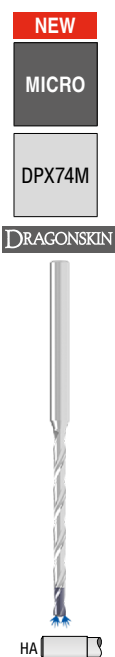
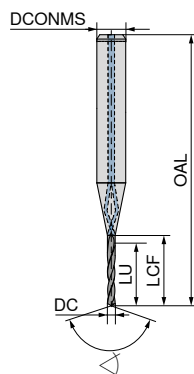
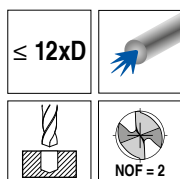
|   |   |
|---|---|
| P | ● |
| M | ● |
| K | ● |
| N | ○ |
| S | ○ |
| H |   |
| O |   |

→ v<sub>c</sub> стр. 37

Минимальное давление СОЖ: 30 бар

## WTX – Высокопроизводительное твердосплавное сверло

- ▲ Микросверло в специсполнении
- ▲ Универсальное применение
- ▲ Высокая надёжность производственных процессов
- ▲ Сверло для пилотных отверстий: 5xD WTX – Micro – Высокопроизводительное твердосплавное сверло



128°  
Твёрдый сплав  
10 695 ...

| DC <sub>h6</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm |       |
|------------------------|----------------------------|-----------|-----------|----------|-------|
| 0,8                    | 3                          | 44        | 11,2      | 9,6      | 00800 |
| 0,9                    | 3                          | 46        | 12,6      | 10,8     | 00900 |
| 1,0                    | 3                          | 47        | 14,0      | 12,0     | 01000 |
| 1,1                    | 3                          | 48        | 15,4      | 13,2     | 01100 |
| 1,2                    | 3                          | 50        | 16,8      | 14,4     | 01200 |
| 1,3                    | 3                          | 51        | 18,2      | 15,6     | 01300 |
| 1,4                    | 3                          | 52        | 19,6      | 16,8     | 01400 |
| 1,5                    | 3                          | 53        | 21,0      | 18,0     | 01500 |
| 1,6                    | 3                          | 55        | 22,4      | 19,2     | 01600 |
| 1,7                    | 3                          | 56        | 23,8      | 20,4     | 01700 |
| 1,8                    | 3                          | 57        | 25,2      | 21,6     | 01800 |
| 1,9                    | 3                          | 59        | 26,6      | 22,8     | 01900 |
| 2,0                    | 3                          | 60        | 28,0      | 24,0     | 02000 |
| 2,1                    | 3                          | 61        | 29,4      | 25,2     | 02100 |
| 2,2                    | 3                          | 63        | 30,8      | 26,4     | 02200 |
| 2,3                    | 3                          | 64        | 32,2      | 27,6     | 02300 |
| 2,4                    | 3                          | 65        | 33,6      | 28,8     | 02400 |
| 2,5                    | 3                          | 67        | 35,0      | 30,0     | 02500 |
| 2,6                    | 3                          | 68        | 36,4      | 31,2     | 02600 |
| 2,7                    | 3                          | 69        | 37,8      | 32,4     | 02700 |
| 2,8                    | 3                          | 70        | 39,2      | 33,6     | 02800 |
| 2,9                    | 3                          | 72        | 40,6      | 34,8     | 02900 |

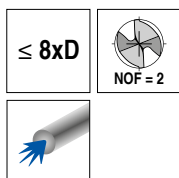
|   |   |
|---|---|
| P | ● |
| M | ● |
| K | ● |
| N |   |
| S | ○ |
| H |   |
| O |   |

→ v<sub>c</sub> стр. 37



Минимальное давление СОЖ: 30 бар

## WPC – Высокоэффективное сверло, заводской стандарт



135°  
Твердый сплав

11 612 ...

| DC <sub>h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 3,0                    | 6                          | 72        | 34        | 29       | 36       | 030 |
| 3,1                    | 6                          | 72        | 34        | 29       | 36       | 031 |
| 3,2                    | 6                          | 72        | 34        | 29       | 36       | 032 |
| 3,3                    | 6                          | 72        | 34        | 29       | 36       | 033 |
| 3,4                    | 6                          | 72        | 34        | 29       | 36       | 034 |
| 3,5                    | 6                          | 72        | 34        | 29       | 36       | 035 |
| 3,6                    | 6                          | 72        | 34        | 29       | 36       | 036 |
| 3,7                    | 6                          | 72        | 34        | 29       | 36       | 037 |
| 3,8                    | 6                          | 81        | 43        | 36       | 36       | 038 |
| 3,9                    | 6                          | 81        | 43        | 36       | 36       | 039 |
| 4,0                    | 6                          | 81        | 43        | 36       | 36       | 040 |
| 4,1                    | 6                          | 81        | 43        | 36       | 36       | 041 |
| 4,2                    | 6                          | 81        | 43        | 36       | 36       | 042 |
| 4,3                    | 6                          | 81        | 43        | 36       | 36       | 043 |
| 4,4                    | 6                          | 81        | 43        | 36       | 36       | 044 |
| 4,5                    | 6                          | 81        | 43        | 36       | 36       | 045 |
| 4,6                    | 6                          | 81        | 43        | 36       | 36       | 046 |
| 4,7                    | 6                          | 81        | 43        | 36       | 36       | 047 |
| 4,8                    | 6                          | 95        | 57        | 48       | 36       | 048 |
| 4,9                    | 6                          | 95        | 57        | 48       | 36       | 049 |
| 5,0                    | 6                          | 95        | 57        | 48       | 36       | 050 |
| 5,1                    | 6                          | 95        | 57        | 48       | 36       | 051 |
| 5,2                    | 6                          | 95        | 57        | 48       | 36       | 052 |
| 5,3                    | 6                          | 95        | 57        | 48       | 36       | 053 |
| 5,5                    | 6                          | 95        | 57        | 48       | 36       | 055 |
| 5,8                    | 6                          | 95        | 57        | 48       | 36       | 058 |
| 5,9                    | 6                          | 95        | 57        | 48       | 36       | 059 |
| 6,0                    | 6                          | 95        | 57        | 48       | 36       | 060 |
| 6,1                    | 8                          | 114       | 76        | 64       | 36       | 061 |
| 6,2                    | 8                          | 114       | 76        | 64       | 36       | 062 |
| 6,3                    | 8                          | 114       | 76        | 64       | 36       | 063 |
| 6,5                    | 8                          | 114       | 76        | 64       | 36       | 065 |
| 6,6                    | 8                          | 114       | 76        | 64       | 36       | 066 |
| 6,8                    | 8                          | 114       | 76        | 64       | 36       | 068 |
| 7,0                    | 8                          | 114       | 76        | 64       | 36       | 070 |
| 7,4                    | 8                          | 114       | 76        | 64       | 36       | 074 |
| 7,5                    | 8                          | 114       | 76        | 64       | 36       | 075 |
| 7,7                    | 8                          | 114       | 76        | 64       | 36       | 077 |
| 7,8                    | 8                          | 114       | 76        | 64       | 36       | 078 |
| 7,9                    | 8                          | 114       | 76        | 64       | 36       | 079 |
| 8,0                    | 8                          | 114       | 76        | 64       | 36       | 080 |
| 8,1                    | 10                         | 142       | 95        | 80       | 40       | 081 |
| 8,2                    | 10                         | 142       | 95        | 80       | 40       | 082 |
| 8,3                    | 10                         | 142       | 95        | 80       | 40       | 083 |
| 8,5                    | 10                         | 142       | 95        | 80       | 40       | 085 |
| 8,6                    | 10                         | 142       | 95        | 80       | 40       | 086 |
| 8,7                    | 10                         | 142       | 95        | 80       | 40       | 087 |
| 8,8                    | 10                         | 142       | 95        | 80       | 40       | 088 |
| 9,0                    | 10                         | 142       | 95        | 80       | 40       | 090 |
| 9,1                    | 10                         | 142       | 95        | 80       | 40       | 091 |
| 9,2                    | 10                         | 142       | 95        | 80       | 40       | 092 |
| 9,3                    | 10                         | 142       | 95        | 80       | 40       | 093 |
| 9,4                    | 10                         | 142       | 95        | 80       | 40       | 094 |

11 612 ...

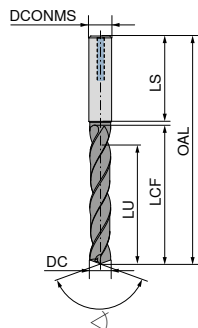
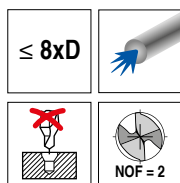
| DC <sub>h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |     |
|------------------------|----------------------------|-----------|-----------|----------|----------|-----|
| 9,5                    | 10                         | 142       | 95        | 80       | 40       | 095 |
| 9,7                    | 10                         | 142       | 95        | 80       | 40       | 097 |
| 9,8                    | 10                         | 142       | 95        | 80       | 40       | 098 |
| 9,9                    | 10                         | 142       | 95        | 80       | 40       | 099 |
| 10,0                   | 10                         | 142       | 95        | 80       | 40       | 100 |
| 10,2                   | 12                         | 162       | 114       | 96       | 45       | 102 |
| 10,5                   | 12                         | 162       | 114       | 96       | 45       | 105 |
| 10,8                   | 12                         | 162       | 114       | 96       | 45       | 108 |
| 11,0                   | 12                         | 162       | 114       | 96       | 45       | 110 |
| 11,2                   | 12                         | 162       | 114       | 96       | 45       | 112 |
| 11,5                   | 12                         | 162       | 114       | 96       | 45       | 115 |
| 11,8                   | 12                         | 162       | 114       | 96       | 45       | 118 |
| 12,0                   | 12                         | 162       | 114       | 96       | 45       | 120 |
| 12,5                   | 14                         | 178       | 131       | 112      | 45       | 125 |
| 13,0                   | 14                         | 178       | 131       | 112      | 45       | 130 |
| 13,5                   | 14                         | 178       | 131       | 112      | 45       | 135 |
| 14,0                   | 14                         | 178       | 131       | 112      | 45       | 140 |
| 14,5                   | 16                         | 203       | 152       | 128      | 48       | 145 |
| 15,0                   | 16                         | 203       | 152       | 128      | 48       | 150 |
| 15,5                   | 16                         | 203       | 152       | 128      | 48       | 155 |
| 16,0                   | 16                         | 203       | 152       | 128      | 48       | 160 |
| 16,5                   | 18                         | 222       | 171       | 144      | 48       | 165 |
| 17,0                   | 18                         | 222       | 171       | 144      | 48       | 170 |
| 17,5                   | 18                         | 222       | 171       | 144      | 48       | 175 |
| 18,0                   | 18                         | 222       | 171       | 144      | 48       | 180 |
| 18,5                   | 20                         | 243       | 190       | 160      | 50       | 185 |
| 19,0                   | 20                         | 243       | 190       | 160      | 50       | 190 |
| 20,0                   | 20                         | 243       | 190       | 160      | 50       | 200 |

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→ V<sub>c</sub> на стр. 132



## WTX – Высокопроизводительное сверло, заводской стандарт



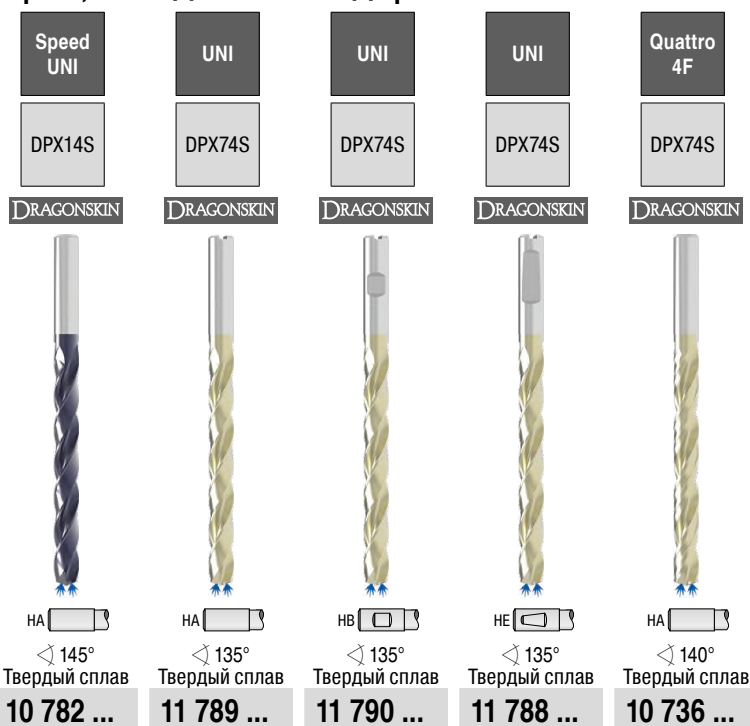
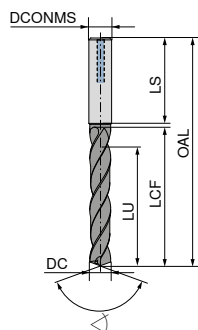
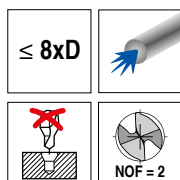
| Speed<br>UNI  | UNI           | UNI           | UNI           | Quattro<br>4F |
|---------------|---------------|---------------|---------------|---------------|
| DPX14S        | DPX74S        | DPX74S        | DPX74S        | DPX74S        |
| DRAGONSKIN    | DRAGONSKIN    | DRAGONSKIN    | DRAGONSKIN    | DRAGONSKIN    |
|               |               |               |               |               |
| HA            | HA            | HB            | HE            | HA            |
| 145°          | 135°          | 135°          | 135°          | 140°          |
| Твердый сплав | Твердый сплав | Твердый сплав | Твердый сплав | Твердый сплав |
| 10 782 ...    | 11 789 ...    | 11 790 ...    | 11 788 ...    | 10 736 ...    |

| DC <sub>m7/h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |  |       |  |     |       |
|---------------------------|----------------------------|-----------|-----------|----------|----------|--|-------|--|-----|-------|
| 3,00                      | 6                          | 72        | 34        | 29       | 36       |  | 03000 |  | 030 | 03000 |
| 3,10                      | 6                          | 72        | 34        | 29       | 36       |  | 03100 |  | 031 | 03100 |
| 3,20                      | 6                          | 72        | 34        | 29       | 36       |  | 03200 |  | 032 | 03200 |
| 3,30                      | 6                          | 72        | 34        | 29       | 36       |  | 03300 |  | 033 | 03300 |
| 3,40                      | 6                          | 72        | 34        | 29       | 36       |  | 03400 |  | 034 | 03400 |
| 3,50                      | 6                          | 72        | 34        | 29       | 36       |  | 03500 |  | 035 | 03500 |
| 3,60                      | 6                          | 72        | 34        | 29       | 36       |  | 03600 |  | 036 | 03600 |
| 3,70                      | 6                          | 72        | 34        | 29       | 36       |  | 03700 |  | 037 | 03700 |
| 3,80                      | 6                          | 81        | 43        | 36       | 36       |  | 03800 |  | 038 | 03800 |
| 3,90                      | 6                          | 81        | 43        | 36       | 36       |  | 03900 |  | 039 | 03900 |
| 4,00                      | 6                          | 81        | 43        | 36       | 36       |  | 04000 |  | 040 | 04000 |
| 4,10                      | 6                          | 81        | 43        | 36       | 36       |  | 04100 |  | 041 | 04100 |
| 4,20                      | 6                          | 81        | 43        | 36       | 36       |  | 04200 |  | 042 | 04200 |
| 4,30                      | 6                          | 81        | 43        | 36       | 36       |  | 04300 |  | 043 | 04300 |
| 4,40                      | 6                          | 81        | 43        | 36       | 36       |  | 04400 |  | 044 | 04400 |
| 4,50                      | 6                          | 81        | 43        | 36       | 36       |  | 04500 |  | 045 | 04500 |
| 4,60                      | 6                          | 81        | 43        | 36       | 36       |  | 04600 |  | 046 | 04600 |
| 4,65                      | 6                          | 81        | 43        | 36       | 36       |  | 04650 |  |     |       |
| 4,70                      | 6                          | 81        | 43        | 36       | 36       |  | 04700 |  | 047 | 04700 |
| 4,80                      | 6                          | 95        | 57        | 48       | 36       |  | 04800 |  | 048 | 04800 |
| 4,90                      | 6                          | 95        | 57        | 48       | 36       |  | 04900 |  | 049 | 04900 |
| 5,00                      | 6                          | 95        | 57        | 48       | 36       |  | 05000 |  | 050 | 05000 |
| 5,10                      | 6                          | 95        | 57        | 48       | 36       |  | 05100 |  | 051 | 05100 |
| 5,20                      | 6                          | 95        | 57        | 48       | 36       |  | 05200 |  | 052 | 05200 |
| 5,30                      | 6                          | 95        | 57        | 48       | 36       |  | 05300 |  | 053 | 05300 |
| 5,40                      | 6                          | 95        | 57        | 48       | 36       |  | 05400 |  | 054 | 05400 |
| 5,50                      | 6                          | 95        | 57        | 48       | 36       |  | 05500 |  | 055 | 05500 |
| 5,55                      | 6                          | 95        | 57        | 48       | 36       |  | 05550 |  |     |       |
| 5,60                      | 6                          | 95        | 57        | 48       | 36       |  | 05600 |  | 056 | 05600 |
| 5,70                      | 6                          | 95        | 57        | 48       | 36       |  | 05700 |  | 057 | 05700 |
| 5,80                      | 6                          | 95        | 57        | 48       | 36       |  | 05800 |  | 058 | 05800 |
| 5,90                      | 6                          | 95        | 57        | 48       | 36       |  | 05900 |  | 059 | 05900 |
| 6,00                      | 6                          | 95        | 57        | 48       | 36       |  | 06000 |  | 060 | 06000 |
| 6,10                      | 8                          | 114       | 76        | 64       | 36       |  | 06100 |  | 061 | 06100 |
| 6,20                      | 8                          | 114       | 76        | 64       | 36       |  | 06200 |  | 062 | 06200 |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| P | • | • | • | • | • |
| M | • |   |   |   |   |
| K | • | • | • | • | • |
| N |   |   |   |   |   |
| S |   |   |   |   |   |
| H |   | ○ | ○ | ○ | ○ |
| O |   |   |   |   |   |

→ v<sub>c</sub> на стр. 109-118Ø DC<sub>m7</sub> для типа UNI и Quattro 4F/ Ø DC<sub>h7</sub> для типа Speed UNI

## WTX – Высокопроизводительное сверло, заводской стандарт

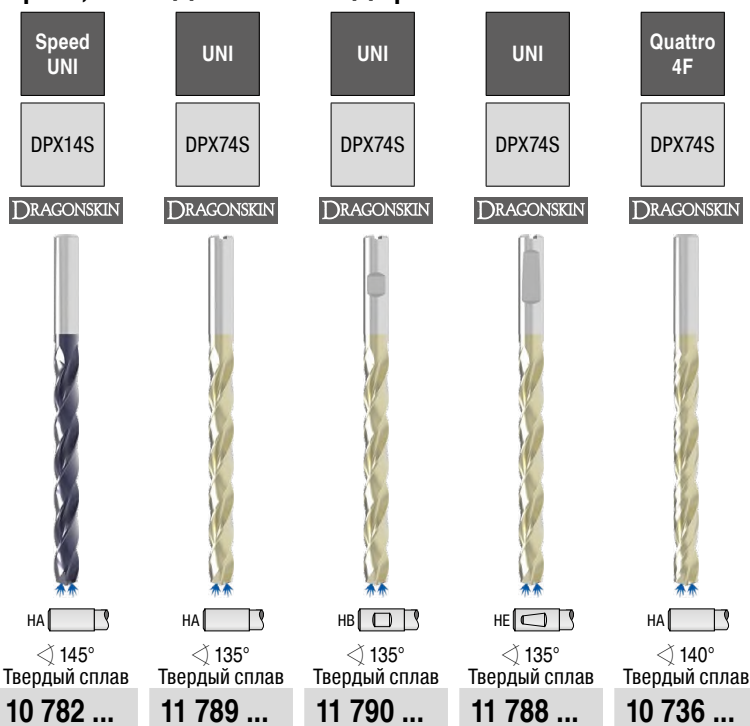
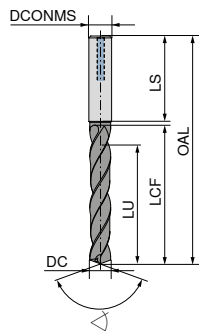
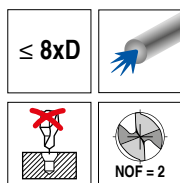


| DC <sub>m7/h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |            |            |            |            |
|---------------------------|----------------------------|-----------|-----------|----------|----------|-------|------------|------------|------------|------------|
| 6,30                      | 8                          | 114       | 76        | 64       | 36       |       | 10 782 ... | 11 789 ... | 11 790 ... | 11 788 ... |
| 6,40                      | 8                          | 114       | 76        | 64       | 36       | 06300 | 063        | 063        | 063        | 06300      |
| 6,50                      | 8                          | 114       | 76        | 64       | 36       | 06400 | 064        | 064        | 064        | 06400      |
| 6,60                      | 8                          | 114       | 76        | 64       | 36       | 06500 | 065        | 065        | 065        | 06500      |
| 6,70                      | 8                          | 114       | 76        | 64       | 36       | 06600 | 066        | 066        | 066        | 06600      |
| 6,80                      | 8                          | 114       | 76        | 64       | 36       | 06700 | 067        | 067        | 067        | 06700      |
| 6,90                      | 8                          | 114       | 76        | 64       | 36       | 06800 | 068        | 068        | 068        | 06800      |
| 7,00                      | 8                          | 114       | 76        | 64       | 36       | 06900 | 069        | 069        | 069        | 06900      |
| 7,10                      | 8                          | 114       | 76        | 64       | 36       | 07000 | 070        | 070        | 070        | 07000      |
| 7,20                      | 8                          | 114       | 76        | 64       | 36       | 07100 | 071        | 071        | 071        | 07100      |
| 7,30                      | 8                          | 114       | 76        | 64       | 36       | 07200 | 072        | 072        | 072        | 07200      |
| 7,40                      | 8                          | 114       | 76        | 64       | 36       | 07300 | 073        | 073        | 073        | 07300      |
| 7,50                      | 8                          | 114       | 76        | 64       | 36       | 07400 | 074        | 074        | 074        | 07400      |
| 7,60                      | 8                          | 114       | 76        | 64       | 36       | 07500 | 075        | 075        | 075        | 07500      |
| 7,70                      | 8                          | 114       | 76        | 64       | 36       | 07600 | 076        | 076        | 076        | 07600      |
| 7,80                      | 8                          | 114       | 76        | 64       | 36       | 07700 | 077        | 077        | 077        | 07700      |
| 7,90                      | 8                          | 114       | 76        | 64       | 36       | 07800 | 078        | 078        | 078        | 07800      |
| 8,00                      | 8                          | 114       | 76        | 64       | 36       | 07900 | 079        | 079        | 079        | 07900      |
| 8,10                      | 10                         | 142       | 95        | 80       | 40       | 08000 | 080        | 080        | 080        | 08000      |
| 8,20                      | 10                         | 142       | 95        | 80       | 40       | 08100 | 081        | 081        | 081        | 08100      |
| 8,30                      | 10                         | 142       | 95        | 80       | 40       | 08200 | 082        | 082        | 082        | 08200      |
| 8,40                      | 10                         | 142       | 95        | 80       | 40       | 08300 | 083        | 083        | 083        | 08300      |
| 8,50                      | 10                         | 142       | 95        | 80       | 40       | 08400 | 084        | 084        | 084        | 08400      |
| 8,60                      | 10                         | 142       | 95        | 80       | 40       | 08500 | 085        | 085        | 085        | 08500      |
| 8,70                      | 10                         | 142       | 95        | 80       | 40       | 08600 | 086        | 086        | 086        | 08600      |
| 8,80                      | 10                         | 142       | 95        | 80       | 40       | 08700 | 087        | 087        | 087        | 08700      |
| 8,90                      | 10                         | 142       | 95        | 80       | 40       | 08800 | 088        | 088        | 088        | 08800      |
| 9,00                      | 10                         | 142       | 95        | 80       | 40       | 08900 | 089        | 089        | 089        | 08900      |
| 9,10                      | 10                         | 142       | 95        | 80       | 40       | 09000 | 090        | 090        | 090        | 09000      |
| 9,20                      | 10                         | 142       | 95        | 80       | 40       | 09100 | 091        | 091        | 091        | 09100      |
| 9,30                      | 10                         | 142       | 95        | 80       | 40       | 09200 | 092        | 092        | 092        | 09200      |
| 9,40                      | 10                         | 142       | 95        | 80       | 40       | 09300 | 093        | 093        | 093        | 09300      |
| 9,50                      | 10                         | 142       | 95        | 80       | 40       | 09400 | 094        | 094        | 094        | 09400      |
| 9,60                      | 10                         | 142       | 95        | 80       | 40       | 09500 | 095        | 095        | 095        | 09500      |
| 9,70                      | 10                         | 142       | 95        | 80       | 40       | 09600 | 096        | 096        | 096        | 09600      |
|                           |                            |           |           |          |          | 09700 | 097        | 097        | 097        | 09700      |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| P | • | • | • | • | • |
| M | • |   |   |   |   |
| K | • | • | • | • | • |
| N |   |   |   |   |   |
| S |   |   |   |   |   |
| H |   | ○ | ○ | ○ | ○ |
| O |   |   |   |   |   |

→ v<sub>c</sub> на стр. 109-118Ø DC<sub>m7</sub> для типа UNI и Quattro 4F/ Ø DC<sub>h7</sub> для типа Speed UNI

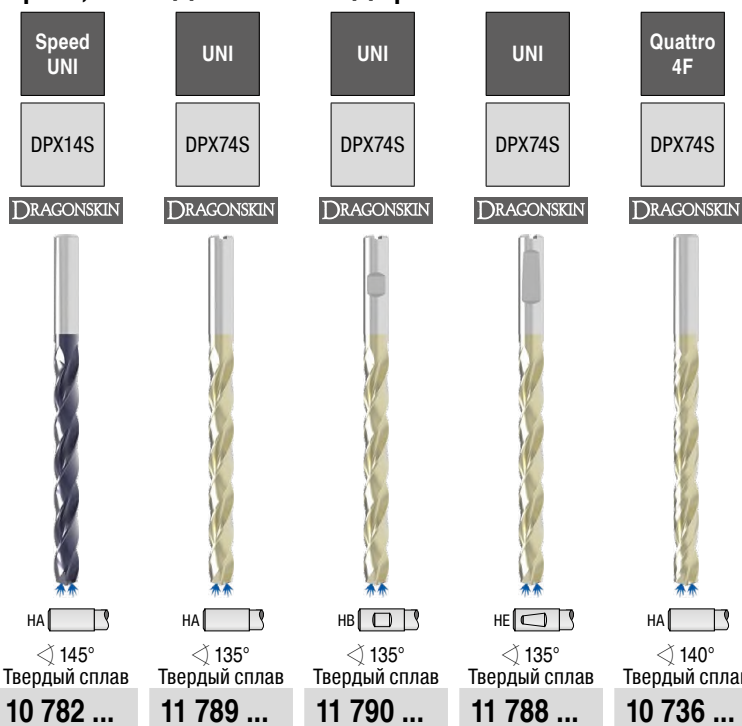
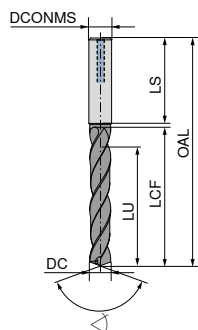
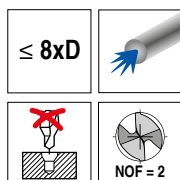
## WTX – Высокопроизводительное сверло, заводской стандарт



| DC <sub>m7/h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |       |            |            |            |            |
|---------------------------|----------------------------|-----------|-----------|----------|----------|-------|------------|------------|------------|------------|
| 9,80                      | 10                         | 142       | 95        | 80       | 40       |       | 10 782 ... | 11 789 ... | 11 790 ... | 11 788 ... |
| 9,90                      | 10                         | 142       | 95        | 80       | 40       | 09800 | 098        | 098        | 098        | 09800      |
| 10,00                     | 10                         | 142       | 95        | 80       | 40       | 09900 | 099        | 099        | 099        | 09900      |
| 10,10                     | 12                         | 162       | 114       | 96       | 45       | 10000 | 100        | 100        | 100        | 10000      |
| 10,20                     | 12                         | 162       | 114       | 96       | 45       | 10100 | 101        | 101        | 101        | 10100      |
| 10,30                     | 12                         | 162       | 114       | 96       | 45       | 10200 | 102        | 102        | 102        | 10200      |
| 10,40                     | 12                         | 162       | 114       | 96       | 45       | 10300 | 103        | 103        | 103        | 10300      |
| 10,50                     | 12                         | 162       | 114       | 96       | 45       | 10400 | 104        | 104        | 104        | 10400      |
| 10,60                     | 12                         | 162       | 114       | 96       | 45       | 10500 | 105        | 105        | 105        | 10500      |
| 10,70                     | 12                         | 162       | 114       | 96       | 45       | 10600 | 106        | 106        | 106        | 10600      |
| 10,80                     | 12                         | 162       | 114       | 96       | 45       | 10700 | 107        | 107        | 107        | 10700      |
| 10,90                     | 12                         | 162       | 114       | 96       | 45       | 10800 | 108        | 108        | 108        | 10800      |
| 11,00                     | 12                         | 162       | 114       | 96       | 45       | 10900 | 109        | 109        | 109        | 10900      |
| 11,10                     | 12                         | 162       | 114       | 96       | 45       | 11000 | 110        | 110        | 110        | 11000      |
| 11,20                     | 12                         | 162       | 114       | 96       | 45       | 11100 | 111        | 111        | 111        | 11100      |
| 11,30                     | 12                         | 162       | 114       | 96       | 45       | 11200 | 112        | 112        | 112        | 11200      |
| 11,40                     | 12                         | 162       | 114       | 96       | 45       | 11300 | 113        | 113        | 113        | 11300      |
| 11,50                     | 12                         | 162       | 114       | 96       | 45       | 11400 | 114        | 114        | 114        | 11400      |
| 11,60                     | 12                         | 162       | 114       | 96       | 45       | 11500 | 115        | 115        | 115        | 11500      |
| 11,70                     | 12                         | 162       | 114       | 96       | 45       | 11600 | 116        | 116        | 116        | 11600      |
| 11,80                     | 12                         | 162       | 114       | 96       | 45       | 11700 | 117        | 117        | 117        | 11700      |
| 11,90                     | 12                         | 162       | 114       | 96       | 45       | 11800 | 118        | 118        | 118        | 11800      |
| 12,00                     | 12                         | 162       | 114       | 96       | 45       | 11900 | 119        | 119        | 119        | 11900      |
| 12,50                     | 14                         | 178       | 131       | 112      | 45       | 12000 | 120        | 120        | 120        | 12000      |
| 12,50                     | 14                         | 178       | 131       | 112      | 43       | 12500 | 125        |            |            | 12500      |
| 12,80                     | 14                         | 178       | 131       | 112      | 45       |       |            | 125        | 125        |            |
| 12,80                     | 14                         | 178       | 131       | 112      | 45       | 12800 | 128        | 128        | 128        | 12800      |
| 13,00                     | 14                         | 178       | 131       | 112      | 45       | 13000 | 130        |            |            | 13000      |
| 13,00                     | 14                         | 178       | 131       | 112      | 43       |       |            | 130        | 130        |            |
| 13,50                     | 14                         | 178       | 131       | 112      | 45       | 13500 | 135        |            |            | 13500      |
| 13,50                     | 14                         | 178       | 131       | 112      | 43       |       |            | 135        | 135        |            |
| 13,80                     | 14                         | 178       | 131       | 112      | 45       | 13800 | 138        |            |            | 13800      |
| 13,80                     | 14                         | 178       | 131       | 112      | 43       |       |            | 138        | 138        |            |
| 14,00                     | 14                         | 178       | 131       | 112      | 45       | 14000 | 140        |            |            | 14000      |
| 14,00                     | 14                         | 178       | 131       | 112      | 43       |       |            | 140        | 140        |            |
| P                         |                            |           |           |          |          |       | •          | •          | •          | •          |
| M                         |                            |           |           |          |          |       | •          |            |            |            |
| K                         |                            |           |           |          |          |       | •          | •          | •          | •          |
| N                         |                            |           |           |          |          |       |            |            |            |            |
| S                         |                            |           |           |          |          |       |            |            |            |            |
| H                         |                            |           |           |          |          |       |            | ○          | ○          | ○          |
| O                         |                            |           |           |          |          |       |            |            |            |            |

→ v<sub>c</sub> на стр. 109-118

## WTX – Высокопроизводительное сверло, заводской стандарт



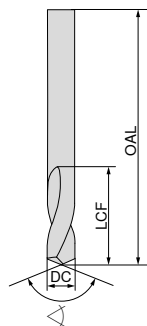
| DC <sub>m7/h7</sub><br>mm | DCONMS <sub>h6</sub><br>mm | OAL<br>mm | LCF<br>mm | LU<br>mm | LS<br>mm |  |       |     |     |       |
|---------------------------|----------------------------|-----------|-----------|----------|----------|--|-------|-----|-----|-------|
| 14,50                     | 16                         | 203       | 152       | 128      | 48       |  | 14500 | 145 | 145 | 14500 |
| 14,80                     | 16                         | 203       | 152       | 128      | 48       |  | 14800 | 148 | 148 | 14800 |
| 15,00                     | 16                         | 203       | 152       | 128      | 48       |  | 15000 | 150 | 150 | 15000 |
| 15,50                     | 16                         | 203       | 152       | 128      | 48       |  | 15500 | 155 | 155 | 15500 |
| 15,80                     | 16                         | 203       | 152       | 128      | 48       |  | 15800 | 158 | 158 | 15800 |
| 16,00                     | 16                         | 203       | 152       | 128      | 48       |  | 16000 | 160 | 160 | 16000 |
| 16,50                     | 18                         | 222       | 171       | 144      | 48       |  | 16500 | 165 | 165 | 16500 |
| 16,80                     | 18                         | 222       | 171       | 144      | 48       |  | 16800 | 168 | 168 | 16800 |
| 17,00                     | 18                         | 222       | 171       | 144      | 48       |  | 17000 | 170 | 170 | 17000 |
| 17,50                     | 18                         | 222       | 171       | 144      | 48       |  | 17500 | 175 | 175 | 17500 |
| 17,80                     | 18                         | 222       | 171       | 144      | 48       |  | 17800 | 178 | 178 | 17800 |
| 18,00                     | 18                         | 222       | 171       | 144      | 48       |  | 18000 | 180 | 180 | 18000 |
| 18,50                     | 20                         | 243       | 190       | 160      | 50       |  | 18500 | 185 | 185 | 18500 |
| 18,80                     | 20                         | 243       | 190       | 160      | 50       |  | 18800 | 188 | 188 | 18800 |
| 19,00                     | 20                         | 243       | 190       | 160      | 50       |  | 19000 | 190 | 190 | 19000 |
| 19,50                     | 20                         | 243       | 190       | 160      | 50       |  | 19500 | 195 | 195 | 19500 |
| 19,80                     | 20                         | 243       | 190       | 160      | 50       |  | 19800 | 198 | 198 | 19800 |
| 20,00                     | 20                         | 243       | 190       | 160      | 50       |  | 20000 | 200 | 200 | 20000 |
| P                         |                            |           |           |          |          |  | •     | •   | •   | •     |
| M                         |                            |           |           |          |          |  | •     |     |     |       |
| K                         |                            |           |           |          |          |  | •     | •   | •   | •     |
| N                         |                            |           |           |          |          |  |       |     |     |       |
| S                         |                            |           |           |          |          |  |       |     |     |       |
| H                         |                            |           |           |          |          |  |       | ○   | ○   | ○     |
| O                         |                            |           |           |          |          |  |       |     |     |       |

→ v<sub>c</sub> на стр. 109–118Ø DC<sub>m7</sub> для типа UNI и Quattro 4F/ Ø DC<sub>h7</sub> для типа Speed UNI

## Сверло центровочное NC, заводской стандарт

▲ со спиральными канавками

2



|                        |           |           | NC-A          | NC-A              | NC-A          | NC-A              | NC-A          | NC-A              |
|------------------------|-----------|-----------|---------------|-------------------|---------------|-------------------|---------------|-------------------|
|                        |           |           |               | TiAlN             |               | TiAlN             |               | TiAlN             |
|                        |           |           |               |                   |               |                   |               |                   |
|                        |           |           | HA            | HB                | HA            | HB                | HA            | HB                |
|                        |           |           | ∠ 90°         | ∠ 90°             | ∠ 120°        | ∠ 120°            | ∠ 142°        | ∠ 142°            |
|                        |           |           | Твердый сплав | Твердый сплав     | Твердый сплав | Твердый сплав     | Твердый сплав | Твердый сплав     |
|                        |           |           | 10 702 ...    | 10 716 ...        | 10 703 ...    | 10 717 ...        | 10 704 ...    | 10 718 ...        |
| DC <sub>hs</sub><br>mm | OAL<br>mm | LCF<br>mm |               |                   |               |                   |               |                   |
| 2                      | 32        | 6         | 002           | 002 <sup>1)</sup> | 002           | 002 <sup>1)</sup> | 002           | 002 <sup>1)</sup> |
| 3                      | 32        | 8         | 003           | 003 <sup>1)</sup> | 003           | 003 <sup>1)</sup> | 003           | 003 <sup>1)</sup> |
| 4                      | 40        | 10        | 004           | 004 <sup>1)</sup> | 004           | 004 <sup>1)</sup> | 004           | 004 <sup>1)</sup> |
| 5                      | 50        | 13        | 005           | 005 <sup>1)</sup> | 005           | 005 <sup>1)</sup> | 005           | 005 <sup>1)</sup> |
| 6                      | 50        | 13        | 006           | 006               | 006           | 006               | 006           | 006               |
| 8                      | 60        | 23        | 008           | 008               | 008           | 008               | 008           | 008               |
| 10                     | 70        | 24        | 010           | 010               | 010           | 010               | 010           | 010               |
| 12                     | 70        | 24        | 012           | 012               | 012           | 012               | 012           | 012               |
| 14                     | 75        | 26        | 014           | 014               | 014           | 014               | 014           | 014               |
| 16                     | 75        | 29        | 016           | 016               | 016           | 016               | 016           | 016               |
| 18                     | 100       | 35        | 018           | 018               | 018           | 018               | 018           | 018               |
| 20                     | 100       | 35        | 020           | 020               | 020           | 020               | 020           | 020               |
| P                      |           |           | ○             | ○                 | ○             | ○                 | ○             | ○                 |
| M                      |           |           |               |                   |               |                   |               |                   |
| K                      |           |           | ●             | ●                 | ●             | ●                 | ●             | ●                 |
| N                      |           |           | ●             | ●                 | ●             | ●                 | ●             | ●                 |
| S                      |           |           |               |                   |               |                   |               |                   |
| H                      |           |           |               | ○                 |               | ○                 |               | ○                 |
| O                      |           |           |               |                   |               |                   |               |                   |

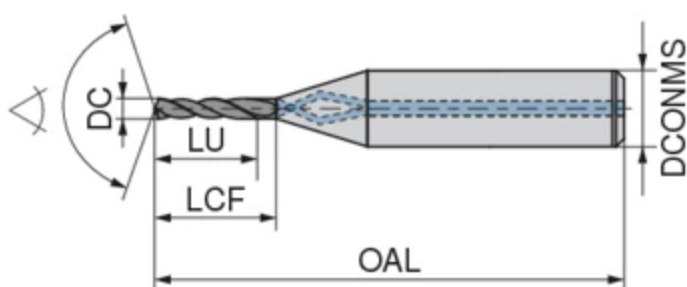
1) Исполнение хвостовика DIN 6535 HA

→ v<sub>c</sub> на стр. 149+150

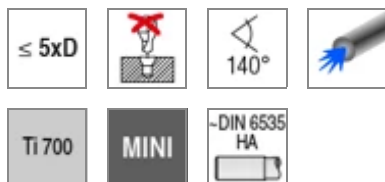
Артикул: 10775...

## WTH – Высокопроизводительное сверло, заводской стандарт

WNT \ Performance



Краткие характеристики:



Применимость по материалам:



### Описание:

- геометрия стружечной канавки WTH, способствующая оптимальному формированию стружки и ее наилучшему отводу
- для всех диаметров унифицированный хвостовик 3 мм

### Технические характеристики

Кол-во режущих кромок NOF

2

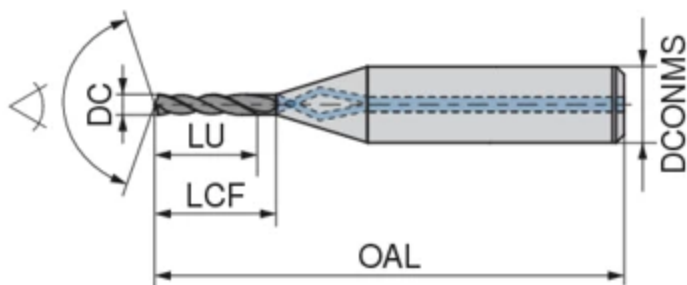


| d <sub>1</sub><br>DC | l <sub>1</sub><br>OAL<br>(mm) | l <sub>2</sub><br>LCF<br>(mm) | d <sub>2</sub><br>DCONMS | l <sub>4</sub><br>LS<br>(mm) | l <sub>3</sub><br>LU<br>(mm) | d <sub>1</sub> +0,004<br>DC<br>(mm) | d <sub>2</sub> -0,002/+0,005<br>DCONMS<br>(mm) |
|----------------------|-------------------------------|-------------------------------|--------------------------|------------------------------|------------------------------|-------------------------------------|------------------------------------------------|
| Артикул: 10775010    |                               |                               |                          |                              |                              |                                     |                                                |
| 1                    | 55                            | 8                             | 3                        | 43,5                         | 5                            |                                     |                                                |
| Артикул: 10775011    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,1                  | 55                            | 12                            | 3                        | 39,7                         | 8                            |                                     |                                                |
| Артикул: 10775012    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,2                  | 55                            | 12                            | 3                        | 39,9                         | 8                            |                                     |                                                |
| Артикул: 10775013    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,3                  | 55                            | 12                            | 3                        | 40,1                         | 8                            |                                     |                                                |
| Артикул: 10775014    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,4                  | 55                            | 12                            | 3                        | 40,2                         | 8                            |                                     |                                                |
| Артикул: 10775015    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,5                  | 55                            | 12                            | 3                        | 40,4                         | 8                            |                                     |                                                |
| Артикул: 10775016    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,6                  | 68                            | 16                            | 3                        | 49,6                         | 11                           |                                     |                                                |
| Артикул: 10775017    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,7                  | 68                            | 16                            | 3                        | 49,7                         | 11                           |                                     |                                                |
| Артикул: 10775018    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,8                  | 68                            | 16                            | 3                        | 49,9                         | 11                           |                                     |                                                |
| Артикул: 10775019    |                               |                               |                          |                              |                              |                                     |                                                |
| 1,9                  | 68                            | 16                            | 3                        | 50,1                         | 11                           |                                     |                                                |
| Артикул: 10775020    |                               |                               |                          |                              |                              |                                     |                                                |
| 2                    | 68                            | 16                            | 3                        | 50,3                         | 11                           |                                     |                                                |
| Артикул: 10775021    |                               |                               |                          |                              |                              |                                     |                                                |
| 2,1                  | 74                            | 20                            | 3                        | 52,4                         | 14                           |                                     |                                                |
| Артикул: 10775022    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 74                            | 20                            |                          | 52,6                         | 14                           | 2,2                                 | 3                                              |
| Артикул: 10775023    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 74                            | 20                            |                          | 52,8                         | 14                           | 2,3                                 | 3                                              |
| Артикул: 10775024    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 74                            | 20                            |                          | 53                           | 14                           | 2,4                                 | 3                                              |
| Артикул: 10775025    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 74                            | 20                            |                          | 53,1                         | 14                           | 2,5                                 | 3                                              |
| Артикул: 10775026    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 81                            | 23                            |                          | 57,3                         | 16                           | 2,6                                 | 3                                              |
| Артикул: 10775027    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 81                            | 23                            |                          | 57,5                         | 16                           | 2,7                                 | 3                                              |
| Артикул: 10775028    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 81                            | 23                            |                          | 57,7                         | 16                           | 2,8                                 | 3                                              |
| Артикул: 10775029    |                               |                               |                          |                              |                              |                                     |                                                |
|                      | 81                            | 23                            |                          | 57,8                         | 16                           | 2,9                                 | 3                                              |

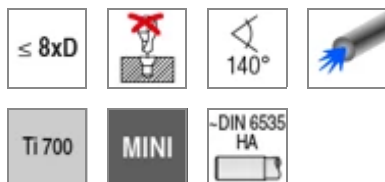
Артикул: 10778...

## WTH – Высокопроизводительное сверло, заводской стандарт

WNT \ Performance



Краткие характеристики:



Применимость по материалам:



### Описание:

- геометрия стружечной канавки WTH, способствующая оптимальному формированию стружки и ее наилучшему отводу
- для всех диаметров унифицированный хвостовик 3 мм

### Технические характеристики

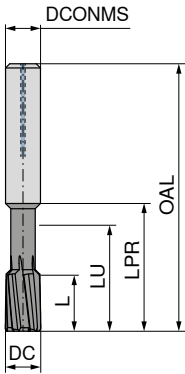
Кол-во режущих кромок NOF

2

| $d_1 \pm 0,004$<br>DC<br>(mm) | $l_1$<br>OAL<br>(mm) | $l_2$<br>LCF<br>(mm) | $d_2 \pm 0,002 / \pm 0,005$<br>DCONMS<br>(mm) | $l_4$<br>LS<br>(mm) | $l_5$<br>LU<br>(mm) |
|-------------------------------|----------------------|----------------------|-----------------------------------------------|---------------------|---------------------|
| Артикул: 10778010             |                      |                      |                                               |                     |                     |
| 1                             | 55                   | 11                   | 3                                             | 40,5                | 8                   |
| Артикул: 10778011             |                      |                      |                                               |                     |                     |
| 1,1                           | 55                   | 17                   | 3                                             | 34,7                | 13                  |
| Артикул: 10778012             |                      |                      |                                               |                     |                     |
| 1,2                           | 55                   | 17                   | 3                                             | 34,9                | 13                  |
| Артикул: 10778013             |                      |                      |                                               |                     |                     |
| 1,3                           | 55                   | 17                   | 3                                             | 35,1                | 13                  |
| Артикул: 10778014             |                      |                      |                                               |                     |                     |
| 1,4                           | 55                   | 17                   | 3                                             | 35,2                | 13                  |
| Артикул: 10778015             |                      |                      |                                               |                     |                     |
| 1,5                           | 55                   | 17                   | 3                                             | 35,4                | 13                  |
| Артикул: 10778016             |                      |                      |                                               |                     |                     |
| 1,6                           | 68                   | 22                   | 3                                             | 43,6                | 17                  |
| Артикул: 10778017             |                      |                      |                                               |                     |                     |
| 1,7                           | 68                   | 22                   | 3                                             | 43,7                | 17                  |
| Артикул: 10778018             |                      |                      |                                               |                     |                     |
| 1,8                           | 68                   | 22                   | 3                                             | 43,9                | 17                  |
| Артикул: 10778019             |                      |                      |                                               |                     |                     |
| 1,9                           | 68                   | 22                   | 3                                             | 44,1                | 17                  |
| Артикул: 10778020             |                      |                      |                                               |                     |                     |
| 2                             | 68                   | 22                   | 3                                             | 44,3                | 17                  |
| Артикул: 10778021             |                      |                      |                                               |                     |                     |
| 2,1                           | 74                   | 28                   | 3                                             | 44,4                | 22                  |
| Артикул: 10778022             |                      |                      |                                               |                     |                     |
| 2,2                           | 74                   | 28                   | 3                                             | 44,6                | 22                  |
| Артикул: 10778023             |                      |                      |                                               |                     |                     |
| 2,3                           | 74                   | 28                   | 3                                             | 44,8                | 22                  |
| Артикул: 10778024             |                      |                      |                                               |                     |                     |
| 2,4                           | 74                   | 28                   | 3                                             | 45                  | 22                  |
| Артикул: 10778025             |                      |                      |                                               |                     |                     |
| 2,5                           | 74                   | 28                   | 3                                             | 45,1                | 22                  |
| Артикул: 10778026             |                      |                      |                                               |                     |                     |
| 2,6                           | 81                   | 32                   | 3                                             | 48,3                | 25                  |
| Артикул: 10778027             |                      |                      |                                               |                     |                     |
| 2,7                           | 81                   | 32                   | 3                                             | 48,5                | 25                  |
| Артикул: 10778028             |                      |                      |                                               |                     |                     |
| 2,8                           | 81                   | 32                   | 3                                             | 48,7                | 25                  |
| Артикул: 10778029             |                      |                      |                                               |                     |                     |
| 2,9                           | 81                   | 32                   | 3                                             | 48,8                | 25                  |

# Fullmax – Высокопроизводительная развёртка, короткое исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальная геометрия и покрытие для универсального использования



51P.57  
НА   
Левая спираль  
≤ 30°  
ASG2210  
Твёрдый сплав  
Сквозное отверстие

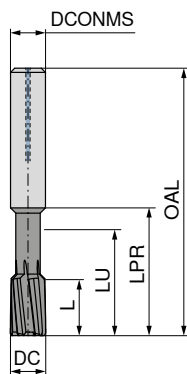
40 483 ...

| DC <sub>H7</sub><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>H6</sub><br>mm | ZEFP |       |
|------------------------|-----------|---------|----------|-----------|----------------------------|------|-------|
| 4                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04000 |
| 5                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05000 |
| 6                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06000 |
| 7                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07000 |
| 8                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08000 |
| 9                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09000 |
| 10                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10000 |
| 11                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11000 |
| 12                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12000 |
| P                      |           |         |          |           |                            |      | ●     |
| M                      |           |         |          |           |                            |      | ●     |
| K                      |           |         |          |           |                            |      | ●     |
| N                      |           |         |          |           |                            |      | ○     |
| S                      |           |         |          |           |                            |      | ○     |
| H                      |           |         |          |           |                            |      | ○     |
| O                      |           |         |          |           |                            |      |       |

→ v<sub>c</sub> стр. 75

**Fullmax – Высокопроизводительная развёртка, короткое исполнение**

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальная геометрия и покрытие для универсального использования
- ▲ Допуск:  $\varnothing 2,96 - 6,03 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 6,04 - 20,05 \text{ мм} = +0,005 \text{ мм}$



51P.57

НА

Левая спираль

 $\angle 30^\circ$ 

ASG2210

Твёрдый сплав  
Сквозное отверстие**40 489 ...**

| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|---------------------|
| 2,96 - 3,96               | 50        | 12      | 24       | 28        | 4                          | 4    | xxxxx <sup>1)</sup> |
| 3,97                      | 50        | 12      | 24       | 28        | 4                          | 4    | 03970               |
| 3,98                      | 50        | 12      | 24       | 28        | 4                          | 4    | 03980               |
| 3,99                      | 50        | 12      | 24       | 28        | 4                          | 4    | 03990               |
| 4,00                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04000               |
| 4,01                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04010               |
| 4,02                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04020               |
| 4,03                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04030               |
| 4,04 - 4,05               | 50        | 12      | 24       | 28        | 4                          | 4    | xxxxx <sup>1)</sup> |
| 4,06 - 4,96               | 64        | 12      | 31       | 36        | 6                          | 4    | xxxxx <sup>1)</sup> |
| 4,97                      | 64        | 12      | 31       | 36        | 6                          | 4    | 04970               |
| 4,98                      | 64        | 12      | 31       | 36        | 6                          | 4    | 04980               |
| 4,99                      | 64        | 12      | 31       | 36        | 6                          | 4    | 04990               |
| 5,00                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05000               |
| 5,01                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05010               |
| 5,02                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05020               |
| 5,03                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05030               |
| 5,04 - 5,96               | 64        | 12      | 31       | 36        | 6                          | 4    | xxxxx <sup>1)</sup> |
| 5,97                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05970               |
| 5,98                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05980               |
| 5,99                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05990               |
| 6,00                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06000               |
| 6,01                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06010               |
| 6,02                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06020               |
| 6,03                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06030               |
| 6,04 - 6,05               | 64        | 12      | 31       | 36        | 6                          | 4    | xxxxx <sup>1)</sup> |
| 6,06 - 7,96               | 70        | 16      | 31       | 36        | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,97                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07970               |
| 7,98                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07980               |
| 7,99                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07990               |
| P                         |           |         |          |           |                            |      | ●                   |
| M                         |           |         |          |           |                            |      | ●                   |
| K                         |           |         |          |           |                            |      | ●                   |
| N                         |           |         |          |           |                            |      | ○                   |
| S                         |           |         |          |           |                            |      | ○                   |
| H                         |           |         |          |           |                            |      | ○                   |
| O                         |           |         |          |           |                            |      |                     |

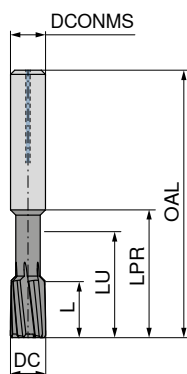
1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ v<sub>c</sub> стр. 75

Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → стр. 80.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 489 08820)!

**Fullmax – Высокопроизводительная развёртка, короткое исполнение**

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальная геометрия и покрытие для универсального использования
- ▲ Допуск:  $\varnothing 2,96 - 6,03 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 6,04 - 20,05 \text{ мм} = +0,005 \text{ мм}$



51P.57

НА

Левая спираль

 $\angle 30^\circ$ 

ASG2210

Твёрдый сплав  
Сквозное отверстие**40 489 ...**

| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|---------------------|
| 8,00                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08000               |
| 8,01                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08010               |
| 8,02                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08020               |
| 8,03                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08030               |
| 8,04 - 8,05               | 70        | 16      | 31       | 36        | 8                          | 6    | xxxxx <sup>1)</sup> |
| 8,06 - 9,96               | 80        | 16      | 35       | 40        | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,97                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09970               |
| 9,98                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09980               |
| 9,99                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09990               |
| 10,00                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10000               |
| 10,01                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10010               |
| 10,02                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10020               |
| 10,03                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10030               |
| 10,04 - 10,05             | 80        | 16      | 35       | 40        | 10                         | 6    | xxxxx <sup>1)</sup> |
| 10,06 - 11,96             | 90        | 20      | 40       | 45        | 12                         | 6    | xxxxx <sup>1)</sup> |
| 11,97                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11970               |
| 11,98                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11980               |
| 11,99                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11990               |
| 12,00                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12000               |
| 12,01                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12010               |
| 12,02                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12020               |
| 12,03                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12030               |

|   |   |
|---|---|
| P | ● |
| M | ● |
| K | ● |
| N | ○ |
| S | ○ |
| H | ○ |
| O | ○ |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ v. cтp. 75

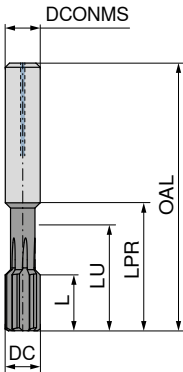


Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → **стр. 80**.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 489 08820)!



Fullmax – Высокопроизводительная развёртка, короткое исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальная геометрия и покрытие для универсального использования



51M.57  
HA

С прямыми канавками  
60°  
ASG2110  
Твёрдый сплав  
Глухое отверстие

40 481 ...

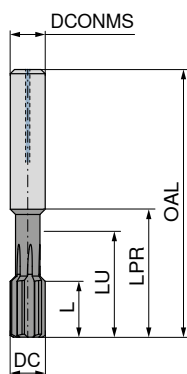
| DC <sub>H7</sub><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |
|------------------------|-----------|---------|----------|-----------|----------------------------|------|
| 4                      | 50        | 12      | 24       | 28        | 4                          | 4    |
| 5                      | 64        | 12      | 31       | 36        | 6                          | 4    |
| 6                      | 64        | 12      | 31       | 36        | 6                          | 4    |
| 7                      | 70        | 16      | 31       | 36        | 8                          | 6    |
| 8                      | 70        | 16      | 31       | 36        | 8                          | 6    |
| 9                      | 80        | 16      | 35       | 40        | 10                         | 6    |
| 10                     | 80        | 16      | 35       | 40        | 10                         | 6    |
| 11                     | 90        | 20      | 40       | 45        | 12                         | 6    |
| 12                     | 90        | 20      | 40       | 45        | 12                         | 6    |

|   |   |
|---|---|
| P | ● |
| M | ● |
| K | ● |
| N | ○ |
| S | ○ |
| H | ○ |
| O |   |

→ v<sub>c</sub> стр. 75

## Fullmax – Высокопроизводительная развёртка, короткое исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальная геометрия и покрытие для универсального использования
- ▲ Допуск:  $\varnothing 2,96 - 6,03 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 6,04 - 20,05 \text{ мм} = +0,005 \text{ мм}$



51M.57

НА

С прямыми канавками

 $\angle 60^\circ$ 

ASG2110

Твёрдый сплав  
Глухое отверстие

40 488 ...

| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|---------------------|
| 2,96 - 3,96               | 50        | 12      | 24       | 28        | 4                          | 4    | xxxxx <sup>1)</sup> |
| 3,97                      | 50        | 12      | 24       | 28        | 4                          | 4    | 03970               |
| 3,98                      | 50        | 12      | 24       | 28        | 4                          | 4    | 03980               |
| 3,99                      | 50        | 12      | 24       | 28        | 4                          | 4    | 03990               |
| 4,00                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04000               |
| 4,01                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04010               |
| 4,02                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04020               |
| 4,03                      | 50        | 12      | 24       | 28        | 4                          | 4    | 04030               |
| 4,04 - 4,05               | 50        | 12      | 24       | 28        | 4                          | 4    | xxxxx <sup>1)</sup> |
| 4,06 - 4,96               | 64        | 12      | 31       | 36        | 6                          | 4    | xxxxx <sup>1)</sup> |
| 4,97                      | 64        | 12      | 31       | 36        | 6                          | 4    | 04970               |
| 4,98                      | 64        | 12      | 31       | 36        | 6                          | 4    | 04980               |
| 4,99                      | 64        | 12      | 31       | 36        | 6                          | 4    | 04990               |
| 5,00                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05000               |
| 5,01                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05010               |
| 5,02                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05020               |
| 5,03                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05030               |
| 5,04 - 5,96               | 64        | 12      | 31       | 36        | 6                          | 4    | xxxxx <sup>1)</sup> |
| 5,97                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05970               |
| 5,98                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05980               |
| 5,99                      | 64        | 12      | 31       | 36        | 6                          | 4    | 05990               |
| 6,00                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06000               |
| 6,01                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06010               |
| 6,02                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06020               |
| 6,03                      | 64        | 12      | 31       | 36        | 6                          | 4    | 06030               |
| 6,04 - 6,05               | 64        | 12      | 31       | 36        | 6                          | 4    | xxxxx <sup>1)</sup> |
| 6,06 - 7,96               | 70        | 16      | 31       | 36        | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,97                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07970               |
| 7,98                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07980               |
| 7,99                      | 70        | 16      | 31       | 36        | 8                          | 6    | 07990               |
| P                         |           |         |          |           |                            |      | ●                   |
| M                         |           |         |          |           |                            |      | ●                   |
| K                         |           |         |          |           |                            |      | ●                   |
| N                         |           |         |          |           |                            |      | ○                   |
| S                         |           |         |          |           |                            |      | ○                   |
| H                         |           |         |          |           |                            |      | ○                   |
| O                         |           |         |          |           |                            |      |                     |

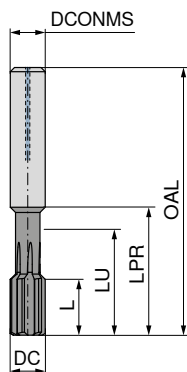
1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ v<sub>c</sub> стр. 75

Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → стр. 80.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 488 08820)!

## Fullmax – Высокопроизводительная развёртка, короткое исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальная геометрия и покрытие для универсального использования
- ▲ Допуск:  $\varnothing 2,96 - 6,03 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 6,04 - 20,05 \text{ мм} = +0,005 \text{ мм}$



51M.57

НА

С прямыми канавками

 $\angle 60^\circ$ 

ASG2110

Твёрдый сплав  
Глухое отверстие

40 488 ...

| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|---------------------|
| 8,00                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08000               |
| 8,01                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08010               |
| 8,02                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08020               |
| 8,03                      | 70        | 16      | 31       | 36        | 8                          | 6    | 08030               |
| 8,04 - 8,05               | 70        | 16      | 31       | 36        | 8                          | 6    | xxxxx <sup>1)</sup> |
| 8,06 - 9,96               | 80        | 16      | 35       | 40        | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,97                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09970               |
| 9,98                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09980               |
| 9,99                      | 80        | 16      | 35       | 40        | 10                         | 6    | 09990               |
| 10,00                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10000               |
| 10,01                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10010               |
| 10,02                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10020               |
| 10,03                     | 80        | 16      | 35       | 40        | 10                         | 6    | 10030               |
| 10,04 - 10,05             | 80        | 16      | 35       | 40        | 10                         | 6    | xxxxx <sup>1)</sup> |
| 10,06 - 11,96             | 90        | 20      | 40       | 45        | 12                         | 6    | xxxxx <sup>1)</sup> |
| 11,97                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11970               |
| 11,98                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11980               |
| 11,99                     | 90        | 20      | 40       | 45        | 12                         | 6    | 11990               |
| 12,00                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12000               |
| 12,01                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12010               |
| 12,02                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12020               |
| 12,03                     | 90        | 20      | 40       | 45        | 12                         | 6    | 12030               |

|   |   |
|---|---|
| P | ● |
| M | ● |
| K | ● |
| N | ○ |
| S | ○ |
| H | ○ |
| O | ○ |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

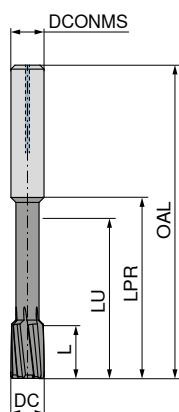
→ v. cтp. 75



Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → **стр. 80**.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 488 08820)!

**Fullmax – Высокопроизводительная развёртка, длинное исполнение**

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальные геометрии и покрытия



| UNI                                           | VA                                            | ALU                                                 |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| DBG-U                                         | DBQ                                           | DBC-N                                               |
|                                               |                                               |                                                     |
| 52P.57<br>НА                                  | 52S.44<br>НА                                  | 52N.17<br>НА                                        |
| Левая спираль<br>$\angle 30^\circ$<br>ASG2210 | Левая спираль<br>$\angle 30^\circ$<br>ASG2231 | С прямыми канавками<br>$\angle 30^\circ$<br>ASG2270 |
| Твёрдый сплав<br>Сквозное отверстие           | Твёрдый сплав<br>Сквозное отверстие           | Твёрдый сплав<br>Сквозное отверстие                 |
| 40 484 ...                                    | 40 401 ...                                    | 40 471 ...                                          |
| 04000                                         | 04000                                         | 04000                                               |
| 05000                                         | 05000                                         | 05000                                               |
| 06000                                         | 06000                                         | 06000                                               |
| 07000                                         | 07000                                         | 07000                                               |
| 08000                                         | 08000                                         | 08000                                               |
| 09000                                         | 09000                                         | 09000                                               |
| 10000                                         | 10000                                         | 10000                                               |
| 11000                                         | 11000                                         | 11000                                               |
| 12000                                         | 12000                                         | 12000                                               |

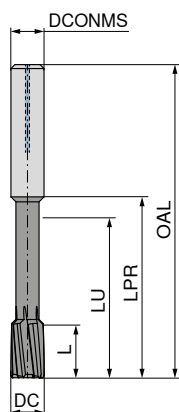
| DC <sub>H7</sub><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |
|------------------------|-----------|---------|----------|-----------|----------------------------|------|
| 4                      | 60        | 12      | 28       | 32        | 4                          | 4    |
| 5                      | 76        | 12      | 35       | 40        | 6                          | 4    |
| 6                      | 76        | 12      | 35       | 40        | 6                          | 4    |
| 7                      | 101       | 16      | 60       | 65        | 8                          | 6    |
| 8                      | 101       | 16      | 60       | 65        | 8                          | 6    |
| 9                      | 108       | 16      | 63       | 68        | 10                         | 6    |
| 10                     | 108       | 16      | 63       | 68        | 10                         | 6    |
| 11                     | 130       | 20      | 80       | 85        | 12                         | 6    |
| 12                     | 130       | 20      | 80       | 85        | 12                         | 6    |

|   |   |   |   |
|---|---|---|---|
| P | • | • |   |
| M | • | • |   |
| K | • |   |   |
| N | ○ |   | • |
| S | ○ |   |   |
| H | ○ |   |   |
| O |   |   | ○ |

→ v<sub>c</sub> стр. 76+77

# Fullmax – Высокопроизводительная развёртка, длинное исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальные геометрии и покрытия
- ▲ Допуск:  $\varnothing 2,96 - 5,96 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 5,97\text{c}20,05 \text{ мм} = +0,005 \text{ мм}$



| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP | 40 486 ...         | 40 403 ...         | 40 473 ...          |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|--------------------|--------------------|---------------------|
| 2,96 - 3,96               | 60        | 12      | 28       | 32        | 4                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 3,97                      | 60        | 12      | 28       | 32        | 4                          | 4    | 03970              | 03970              | 03970 <sup>1)</sup> |
| 3,98                      | 60        | 12      | 28       | 32        | 4                          | 4    | 03980              | 03980              | 03980 <sup>1)</sup> |
| 3,99                      | 60        | 12      | 28       | 32        | 4                          | 4    | 03990              | 03990              | 03990 <sup>1)</sup> |
| 4,00                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04000              | 04000              | 04000 <sup>1)</sup> |
| 4,01                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04010              | 04010              | 04010 <sup>1)</sup> |
| 4,02                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04020              | 04020              | 04020 <sup>1)</sup> |
| 4,03                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04030              | 04030              | 04030 <sup>1)</sup> |
| 4,04 - 4,05               | 60        | 12      | 28       | 32        | 4                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 4,06 - 4,96               | 76        | 12      | 35       | 40        | 6                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 4,97                      | 76        | 12      | 35       | 40        | 6                          | 4    | 04970              | 04970              | 04970 <sup>1)</sup> |
| 4,98                      | 76        | 12      | 35       | 40        | 6                          | 4    | 04980              | 04980              | 04980 <sup>1)</sup> |
| 4,99                      | 76        | 12      | 35       | 40        | 6                          | 4    | 04990              | 04990              | 04990 <sup>1)</sup> |
| 5,00                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05000              | 05000              | 05000 <sup>1)</sup> |
| 5,01                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05010              | 05010              | 05010 <sup>1)</sup> |
| 5,02                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05020              | 05020              | 05020 <sup>1)</sup> |
| 5,03                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05030              | 05030              | 05030 <sup>1)</sup> |
| 5,04 - 5,96               | 76        | 12      | 35       | 40        | 6                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 5,97                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05970              | 05970              | 05970 <sup>1)</sup> |
| 5,98                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05980              | 05980              | 05980 <sup>1)</sup> |
| 5,99                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05990              | 05990              | 05990 <sup>1)</sup> |
| 6,00                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06000              | 06000              | 06000 <sup>1)</sup> |
| 6,01                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06010              | 06010              | 06010 <sup>1)</sup> |
| 6,02                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06020              | 06020              | 06020 <sup>1)</sup> |
| 6,03                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06030              | 06030              | 06030 <sup>1)</sup> |
| 6,04 - 6,05               | 76        | 12      | 35       | 40        | 6                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 6,06 - 7,96               | 101       | 16      | 60       | 65        | 8                          | 6    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 7,97                      | 101       | 16      | 60       | 65        | 8                          | 6    | 07970              | 07970              | 07970 <sup>1)</sup> |
| 7,98                      | 101       | 16      | 60       | 65        | 8                          | 6    | 07980              | 07980              | 07980 <sup>1)</sup> |
| P                         |           |         |          |           |                            |      | ●                  | ●                  |                     |
| M                         |           |         |          |           |                            |      | ●                  | ●                  |                     |
| K                         |           |         |          |           |                            |      | ●                  |                    |                     |
| N                         |           |         |          |           |                            |      | ○                  |                    | ●                   |
| S                         |           |         |          |           |                            |      | ○                  |                    |                     |
| H                         |           |         |          |           |                            |      | ○                  |                    |                     |
| O                         |           |         |          |           |                            |      |                    |                    | ○                   |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ v. c. стр. 76+77

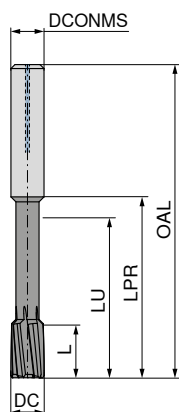
2) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 42 рабочих дня



Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → **стр. 80**.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 486 08820)!

## Fullmax – Высокопроизводительная развёртка, длинное исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальные геометрии и покрытия
- ▲ Допуск:  $\varnothing 2,96 - 5,96 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 5,97 \text{с}20,05 \text{ мм} = +0,005 \text{ мм}$



| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP | 40 486 ...          | 40 403 ...          | 40 473 ...          |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|---------------------|---------------------|---------------------|
| 7,99                      | 101       | 16      | 60       | 65        | 8                          | 6    | 07990               | 07990               | 07990 <sup>1)</sup> |
| 8,00                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08000               | 08000               | 08000 <sup>1)</sup> |
| 8,01                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08010               | 08010               | 08010 <sup>1)</sup> |
| 8,02                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08020               | 08020               | 08020 <sup>1)</sup> |
| 8,03                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08030               | 08030               | 08030 <sup>1)</sup> |
| 8,04 - 8,05               | 101       | 16      | 60       | 65        | 8                          | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 8,06 - 9,96               | 108       | 16      | 63       | 68        | 10                         | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 9,97                      | 108       | 16      | 63       | 68        | 10                         | 6    | 09970               | 09970               | 09970 <sup>1)</sup> |
| 9,98                      | 108       | 16      | 63       | 68        | 10                         | 6    | 09980               | 09980               | 09980 <sup>1)</sup> |
| 9,99                      | 108       | 16      | 63       | 68        | 10                         | 6    | 09990               | 09990               | 09990 <sup>1)</sup> |
| 10,00                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10000               | 10000               | 10000 <sup>1)</sup> |
| 10,01                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10010               | 10010               | 10010 <sup>1)</sup> |
| 10,02                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10020               | 10020               | 10020 <sup>1)</sup> |
| 10,03                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10030               | 10030               | 10030 <sup>1)</sup> |
| 10,04 - 10,05             | 108       | 16      | 63       | 68        | 10                         | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 10,06 - 11,96             | 130       | 20      | 80       | 85        | 12                         | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 11,97                     | 130       | 20      | 80       | 85        | 12                         | 6    | 11970               | 11970               | 11970 <sup>1)</sup> |
| 11,98                     | 130       | 20      | 80       | 85        | 12                         | 6    | 11980               | 11980               | 11980 <sup>1)</sup> |
| 11,99                     | 130       | 20      | 80       | 85        | 12                         | 6    | 11990               | 11990               | 11990 <sup>1)</sup> |
| 12,00                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12000               | 12000               | 12000 <sup>1)</sup> |
| 12,01                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12010               | 12010               | 12010 <sup>1)</sup> |
| 12,02                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12020               | 12020               | 12020 <sup>1)</sup> |
| 12,03                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12030               | 12030               | 12030 <sup>1)</sup> |
| P                         |           |         |          |           |                            |      | ●                   | ●                   |                     |
| M                         |           |         |          |           |                            |      | ●                   | ●                   |                     |
| K                         |           |         |          |           |                            |      | ●                   |                     |                     |
| N                         |           |         |          |           |                            |      | ○                   |                     | ●                   |
| S                         |           |         |          |           |                            |      | ○                   |                     |                     |
| H                         |           |         |          |           |                            |      | ○                   |                     |                     |
| O                         |           |         |          |           |                            |      |                     |                     | ○                   |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ v.c. стр. 76+77

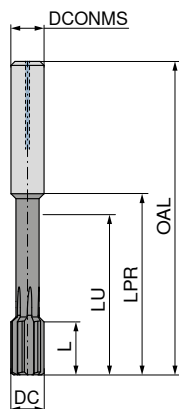
2) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 42 рабочих дня



Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → стр. 80.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 486 08820)!

## Fullmax – Высокопроизводительная развёртка, длинное исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальные геометрии и покрытия



| UNI   | VA  | ALU   |
|-------|-----|-------|
| DBG-U | DBQ | DBC-N |



52M.57  
HA

С прямыми канавками

60°

ASG2110

Твёрдый сплав  
Глухое отверстие

40 485 ...



52T.45  
HA

С прямыми канавками

45°

ASG2131

Твёрдый сплав  
Глухое отверстие

40 402 ...



52Q.17  
HA

С прямыми канавками

60°

ASG2170

Твёрдый сплав  
Глухое отверстие

40 472 ...

| DC <sub>H7</sub><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |
|------------------------|-----------|---------|----------|-----------|----------------------------|------|
| 4                      | 60        | 12      | 28       | 32        | 4                          | 4    |
| 5                      | 76        | 12      | 35       | 40        | 6                          | 4    |
| 6                      | 76        | 12      | 35       | 40        | 6                          | 4    |
| 7                      | 101       | 16      | 60       | 65        | 8                          | 6    |
| 8                      | 101       | 16      | 60       | 65        | 8                          | 6    |
| 9                      | 108       | 16      | 63       | 68        | 10                         | 6    |
| 10                     | 108       | 16      | 63       | 68        | 10                         | 6    |
| 11                     | 130       | 20      | 80       | 85        | 12                         | 6    |
| 12                     | 130       | 20      | 80       | 85        | 12                         | 6    |

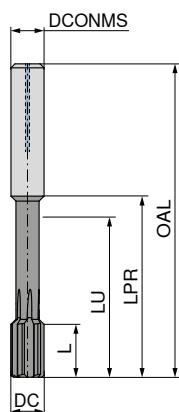
|   |   |   |   |
|---|---|---|---|
| P | ● | ● |   |
| M | ● | ● |   |
| K | ● |   |   |
| N | ○ |   | ● |
| S | ○ |   |   |
| H | ○ |   |   |
| O |   |   | ○ |

→ v<sub>c</sub> стр. 76+77



## Fullmax – Высокопроизводительная развёртка, длинное исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальные геометрии и покрытия
- ▲ Допуск:  $\varnothing 2,96 - 5,96 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 5,97\text{c}20,05 \text{ мм} = +0,005 \text{ мм}$



| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                    |                    |                     |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|--------------------|--------------------|---------------------|
| 2,96 - 3,96               | 60        | 12      | 28       | 32        | 4                          | 4    |                    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup>  |
| 3,97                      | 60        | 12      | 28       | 32        | 4                          | 4    | 03970              | 03970              | 03970 <sup>1)</sup> |
| 3,98                      | 60        | 12      | 28       | 32        | 4                          | 4    | 03980              | 03980              | 03980 <sup>1)</sup> |
| 3,99                      | 60        | 12      | 28       | 32        | 4                          | 4    | 03990              | 03990              | 03990 <sup>1)</sup> |
| 4,00                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04000              | 04000              | 04000 <sup>1)</sup> |
| 4,01                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04010              | 04010              | 04010 <sup>1)</sup> |
| 4,02                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04020              | 04020              | 04020 <sup>1)</sup> |
| 4,03                      | 60        | 12      | 28       | 32        | 4                          | 4    | 04030              | 04030              | 04030 <sup>1)</sup> |
| 4,04 - 4,05               | 60        | 12      | 28       | 32        | 4                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 4,06 - 4,96               | 76        | 12      | 35       | 40        | 6                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 4,97                      | 76        | 12      | 35       | 40        | 6                          | 4    | 04970              | 04970              | 04970 <sup>1)</sup> |
| 4,98                      | 76        | 12      | 35       | 40        | 6                          | 4    | 04980              | 04980              | 04980 <sup>1)</sup> |
| 4,99                      | 76        | 12      | 35       | 40        | 6                          | 4    | 04990              | 04990              | 04990 <sup>1)</sup> |
| 5,00                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05000              | 05000              | 05000 <sup>1)</sup> |
| 5,01                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05010              | 05010              | 05010 <sup>1)</sup> |
| 5,02                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05020              | 05020              | 05020 <sup>1)</sup> |
| 5,03                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05030              | 05030              | 05030 <sup>1)</sup> |
| 5,04 - 5,96               | 76        | 12      | 35       | 40        | 6                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 5,97                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05970              | 05970              | 05970 <sup>1)</sup> |
| 5,98                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05980              | 05980              | 05980 <sup>1)</sup> |
| 5,99                      | 76        | 12      | 35       | 40        | 6                          | 4    | 05990              | 05990              | 05990 <sup>1)</sup> |
| 6,00                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06000              | 06000              | 06000 <sup>1)</sup> |
| 6,01                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06010              | 06010              | 06010 <sup>1)</sup> |
| 6,02                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06020              | 06020              | 06020 <sup>1)</sup> |
| 6,03                      | 76        | 12      | 35       | 40        | 6                          | 4    | 06030              | 06030              | 06030 <sup>1)</sup> |
| 6,04 - 6,05               | 76        | 12      | 35       | 40        | 6                          | 4    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 6,06 - 7,96               | 101       | 16      | 60       | 65        | 8                          | 6    | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  |
| 7,97                      | 101       | 16      | 60       | 65        | 8                          | 6    | 07970              | 07970              | 07970 <sup>1)</sup> |
| 7,98                      | 101       | 16      | 60       | 65        | 8                          | 6    | 07980              | 07980              | 07980 <sup>1)</sup> |
| P                         |           |         |          |           |                            |      | ●                  | ●                  |                     |
| M                         |           |         |          |           |                            |      | ●                  | ●                  |                     |
| K                         |           |         |          |           |                            |      | ●                  |                    |                     |
| N                         |           |         |          |           |                            |      | ○                  |                    | ●                   |
| S                         |           |         |          |           |                            |      | ○                  |                    |                     |
| H                         |           |         |          |           |                            |      | ○                  |                    |                     |
| O                         |           |         |          |           |                            |      |                    |                    | ○                   |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ v. cтр. 76+77

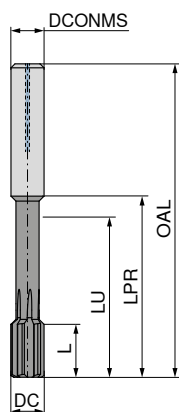
2) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 42 рабочих дня



Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → **стр. 80**.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 487 08820)!

## Fullmax – Высокопроизводительная развёртка, длинное исполнение

- ▲ Неравномерный шаг зубьев
- ▲ Для высокопроизводительной обработки
- ▲ Специальные геометрии и покрытия
- ▲ Допуск:  $\varnothing 2,96 - 5,96 \text{ мм} = +0,004 \text{ мм}$
- ▲ Допуск:  $\varnothing 5,97 \text{ c } 20,05 \text{ мм} = +0,005 \text{ мм}$



| DC<br>+0,004/+0,005<br>mm | OAL<br>mm | L<br>mm | LU<br>mm | LPR<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP | 40 487 ...          | 40 404 ...          | 40 474 ...          |
|---------------------------|-----------|---------|----------|-----------|----------------------------|------|---------------------|---------------------|---------------------|
| 7,99                      | 101       | 16      | 60       | 65        | 8                          | 6    | 07990               | 07990               | 07990 <sup>1)</sup> |
| 8,00                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08000               | 08000               | 08000 <sup>1)</sup> |
| 8,01                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08010               | 08010               | 08010 <sup>1)</sup> |
| 8,02                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08020               | 08020               | 08020 <sup>1)</sup> |
| 8,03                      | 101       | 16      | 60       | 65        | 8                          | 6    | 08030               | 08030               | 08030 <sup>1)</sup> |
| 8,04 - 8,05               | 101       | 16      | 60       | 65        | 8                          | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 8,06 - 9,96               | 108       | 16      | 63       | 68        | 10                         | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 9,97                      | 108       | 16      | 63       | 68        | 10                         | 6    | 09970               | 09970               | 09970 <sup>1)</sup> |
| 9,98                      | 108       | 16      | 63       | 68        | 10                         | 6    | 09980               | 09980               | 09980 <sup>1)</sup> |
| 9,99                      | 108       | 16      | 63       | 68        | 10                         | 6    | 09990               | 09990               | 09990 <sup>1)</sup> |
| 10,00                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10000               | 10000               | 10000 <sup>1)</sup> |
| 10,01                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10010               | 10010               | 10010 <sup>1)</sup> |
| 10,02                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10020               | 10020               | 10020 <sup>1)</sup> |
| 10,03                     | 108       | 16      | 63       | 68        | 10                         | 6    | 10030               | 10030               | 10030 <sup>1)</sup> |
| 10,04 - 10,05             | 108       | 16      | 63       | 68        | 10                         | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 10,06 - 11,96             | 130       | 20      | 80       | 85        | 12                         | 6    | xxxxx <sup>1)</sup> | xxxxx <sup>2)</sup> | xxxxx <sup>1)</sup> |
| 11,97                     | 130       | 20      | 80       | 85        | 12                         | 6    | 11970               | 11970               | 11970 <sup>1)</sup> |
| 11,98                     | 130       | 20      | 80       | 85        | 12                         | 6    | 11980               | 11980               | 11980 <sup>1)</sup> |
| 11,99                     | 130       | 20      | 80       | 85        | 12                         | 6    | 11990               | 11990               | 11990 <sup>1)</sup> |
| 12,00                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12000               | 12000               | 12000 <sup>1)</sup> |
| 12,01                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12010               | 12010               | 12010 <sup>1)</sup> |
| 12,02                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12020               | 12020               | 12020 <sup>1)</sup> |
| 12,03                     | 130       | 20      | 80       | 85        | 12                         | 6    | 12030               | 12030               | 12030 <sup>1)</sup> |
| P                         |           |         |          |           |                            |      | ●                   | ●                   |                     |
| M                         |           |         |          |           |                            |      | ●                   | ●                   |                     |
| K                         |           |         |          |           |                            |      | ●                   |                     |                     |
| N                         |           |         |          |           |                            |      | ○                   |                     | ●                   |
| S                         |           |         |          |           |                            |      | ○                   |                     |                     |
| H                         |           |         |          |           |                            |      | ○                   |                     |                     |
| O                         |           |         |          |           |                            |      |                     |                     | ○                   |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 35 рабочих дней

→ V<sub>c</sub> стр. 76+77

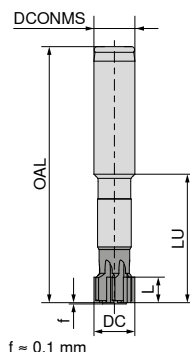
2) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 42 рабочих дня



Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → стр. 80.  
При заказе xxxx следует указывать требуемый диаметр (например,  $\varnothing 8,82 \text{ мм}$  → арт. № 40 487 08820)!

# Мономах – Быстрорежущая развертка, короткое исполнение

- ▲ Возможность регулировки под отверстия со сверхмалыми допусками
- ▲ Компенсация износа в пределах поля допуска
- ▲ Извлечение из отверстия на быстром ходе
- ▲ До класса точности IT 5 абсолютная технологическая надежность, начиная уже с первого отверстия



| DST                                           | DBC                                         | DBG-P                                     | DST                                           | TiN                                       |
|-----------------------------------------------|---------------------------------------------|-------------------------------------------|-----------------------------------------------|-------------------------------------------|
|                                               |                                             |                                           |                                               |                                           |
| 56J.93<br>≤ 3xD<br>◊ 45°<br>ASG3000<br>CERMET | 56J.17<br>≤ 3xD<br>◊ 45/8°<br>ASG0706<br>HM | 56J.65<br>≤ 3xD<br>◊ 45°<br>ASG0106<br>HM | 56J.93<br>≤ 3xD<br>◊ 25°<br>ASG4000<br>CERMET | 56J.71<br>≤ 3xD<br>◊ 45°<br>ASG3000<br>HM |
| Сквозное отверстие                            | Сквозное отверстие                          | Сквозное отверстие                        | Сквозное отверстие                            | Сквозное отверстие                        |

| DC <sub>H7</sub><br>mm | OAL<br>mm | LU<br>mm | L<br>mm | DCONMS <sub>H6</sub><br>mm | ZEFP | 40 625 ...         | 40 648 ...          | 40 652 ...         | 40 635 ...         | 40 605 ...         |
|------------------------|-----------|----------|---------|----------------------------|------|--------------------|---------------------|--------------------|--------------------|--------------------|
| 5,60 - 5,99            | 85        | 40       | 10      | 12                         | 4    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 6,00                   | 85        | 40       | 10      | 12                         | 4    | 060                | 06000 <sup>1)</sup> | 06000              | 060                | 060                |
| 6,01 - 7,99            | 85        | 40       | 10      | 12                         | 4    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 8,00                   | 85        | 40       | 10      | 12                         | 4    | 080                | 08000 <sup>1)</sup> | 08000              | 080                | 080                |
| 8,01 - 8,89            | 85        | 40       | 10      | 12                         | 4    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 8,90 - 9,89            | 95        | 50       | 10      | 12                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 9,90 - 9,99            | 95        | 50       | 10      | 12                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 10,00                  | 95        | 50       | 10      | 12                         | 6    | 100                | 10000 <sup>1)</sup> | 10000              | 100                | 100                |
| 10,01 - 11,99          | 95        | 50       | 10      | 12                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 12,00                  | 95        | 50       | 10      | 12                         | 6    | 120                | 12000 <sup>1)</sup> | 12000              | 120                | 120                |
| 12,01 - 13,99          | 95        | 50       | 10      | 12                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 14,00                  | 95        | 50       | 10      | 12                         | 6    | 140                | 14000 <sup>1)</sup> | 14000              | 140                | 140                |
| 14,01 - 14,99          | 95        | 50       | 10      | 12                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 15,00                  | 95        | 50       | 10      | 12                         | 6    | 150                | 15000 <sup>1)</sup> | 15000              | 150                | 150                |
| 15,01 - 15,89          | 95        | 50       | 10      | 12                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 15,90 - 15,99          | 100       | 50       | 10      | 16                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 16,00                  | 100       | 50       | 10      | 16                         | 6    | 160                | 16000 <sup>1)</sup> | 16000              | 160                | 160                |
| 16,01 - 17,99          | 100       | 50       | 10      | 16                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 18,00                  | 100       | 50       | 10      | 16                         | 6    | 180                | 18000 <sup>1)</sup> | 18000              | 180                | 180                |
| 18,01 - 18,89          | 100       | 50       | 10      | 16                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 18,90 - 19,99          | 120       | 60       | 10      | 20                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| 20,00                  | 120       | 60       | 10      | 20                         | 6    | 200                | 20000 <sup>1)</sup> | 20000              | 200                | 200                |
| 20,01 - 25,89          | 120       | 60       | 10      | 20                         | 6    | xxxx <sup>2)</sup> | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup> | xxxx <sup>2)</sup> | xxxx <sup>1)</sup> |
| P                      |           |          |         |                            |      | ●                  |                     | ●                  | ●                  | ○                  |
| M                      |           |          |         |                            |      |                    |                     | ●                  |                    |                    |
| K                      |           |          |         |                            |      | ●                  |                     |                    | ○                  | ○                  |
| N                      |           |          |         |                            |      | ○                  | ●                   |                    |                    | ●                  |
| S                      |           |          |         |                            |      |                    |                     |                    |                    |                    |
| H                      |           |          |         |                            |      |                    |                     |                    |                    |                    |
| O                      |           |          |         |                            |      |                    | ○                   |                    |                    |                    |

- 1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 45 рабочих дней / Мин. количество для заказа – 2 шт.  
2) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 30 рабочих дней / Мин. количество для заказа – 2 шт.

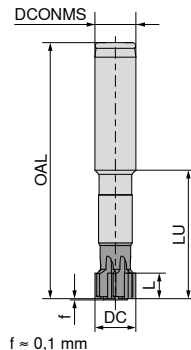
→ v<sub>c</sub> на стр. 76-79

Не использовать в термопартронах!

При заказе xxxx следует указывать требуемый диаметр H7 (например, 15,89 H7 → арт. № 40 635 1589)!  
По запросу также возможны любые другие диаметры и классы точности (например, 18,5<sup>+0,025</sup> или 18 N7).

# Мономах – Быстрорежущая развертка, короткое исполнение

- ▲ Возможность регулировки под отверстия со сверхмалыми допусками
- ▲ Компенсация износа в пределах поля допуска
- ▲ Извлечение из отверстия на быстром ходе
- ▲ До класса точности IT 5 абсолютная технологическая надежность, начиная уже с первого отверстия



56H.65  
≤ 3xD  
45°  
ASG0106  
HM

Глухое отверстие

40 644 ...

56H.17  
≤ 3xD  
45/8°  
ASG0706  
HM

Глухое отверстие

40 640 ...

56H.65  
≤ 3xD  
45°  
ASG3000  
HM

Глухое отверстие

40 657 ...

| DC <sub>H7</sub><br>mm | OAL<br>mm | LU<br>mm | L<br>mm | DCONMS <sub>H6</sub><br>mm | ZEFP |  |                     |                     |
|------------------------|-----------|----------|---------|----------------------------|------|--|---------------------|---------------------|
| 5,60 - 5,99            | 85        | 40       | 10      | 12                         | 4    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 6,00                   | 85        | 40       | 10      | 12                         | 4    |  | 06000 <sup>1)</sup> | 06000 <sup>1)</sup> |
| 6,01 - 7,99            | 85        | 40       | 10      | 12                         | 4    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 8,00                   | 85        | 40       | 10      | 12                         | 4    |  | 08000 <sup>1)</sup> | 08000 <sup>1)</sup> |
| 8,01 - 8,89            | 85        | 40       | 10      | 12                         | 4    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 8,90 - 9,89            | 95        | 50       | 10      | 12                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 9,90 - 9,99            | 95        | 50       | 10      | 12                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 10,00                  | 95        | 50       | 10      | 12                         | 6    |  | 10000 <sup>1)</sup> | 10000 <sup>1)</sup> |
| 10,01 - 11,99          | 95        | 50       | 10      | 12                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 12,00                  | 95        | 50       | 10      | 12                         | 6    |  | 12000 <sup>1)</sup> | 12000 <sup>1)</sup> |
| 12,01 - 13,99          | 95        | 50       | 10      | 12                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 14,00                  | 95        | 50       | 10      | 12                         | 6    |  | 14000 <sup>1)</sup> | 14000 <sup>1)</sup> |
| 14,01 - 14,99          | 95        | 50       | 10      | 12                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 15,00                  | 95        | 50       | 10      | 12                         | 6    |  | 15000 <sup>1)</sup> | 15000 <sup>1)</sup> |
| 15,01 - 15,89          | 95        | 50       | 10      | 12                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 15,90 - 15,99          | 100       | 50       | 10      | 16                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 16,00                  | 100       | 50       | 10      | 16                         | 6    |  | 16000 <sup>1)</sup> | 16000 <sup>1)</sup> |
| 16,01 - 17,99          | 100       | 50       | 10      | 16                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 18,00                  | 100       | 50       | 10      | 16                         | 6    |  | 18000 <sup>1)</sup> | 18000 <sup>1)</sup> |
| 18,01 - 18,89          | 100       | 50       | 10      | 16                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 18,90 - 19,99          | 120       | 60       | 10      | 20                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| 20,00                  | 120       | 60       | 10      | 20                         | 6    |  | 20000 <sup>1)</sup> | 20000 <sup>1)</sup> |
| 20,01 - 25,89          | 120       | 60       | 10      | 20                         | 6    |  | xxxx <sup>1)</sup>  | xxxx <sup>1)</sup>  |
| P                      |           |          |         |                            |      |  | •                   | •                   |
| M                      |           |          |         |                            |      |  | •                   |                     |
| K                      |           |          |         |                            |      |  |                     | •                   |
| N                      |           |          |         |                            |      |  | •                   |                     |
| S                      |           |          |         |                            |      |  |                     |                     |
| H                      |           |          |         |                            |      |  |                     |                     |
| O                      |           |          |         |                            |      |  | ○                   |                     |

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 45 рабочих дней / Мин. количество для заказа – 2 шт.

→ v<sub>c</sub> на стр. 76–79



Не использовать в термопартонах!



При заказе xxxx следует указывать требуемый диаметр H7 (например, 15,89 H7 → арт. № 40 644 1589)!

По запросу также возможны любые другие диаметры и классы точности (например, 18,5<sup>+0,025</sup> или 18 H7).

## Развёртка машинная, DIN 8093-2B

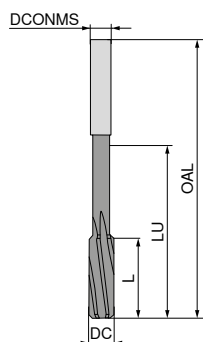
▲ С шагом 0,01 мм

▲ Ø 3,76–12,05 мм, с внутренним центром

▲ Неравномерный шаг зубьев

▲ Ø 0,6–0,94 мм, аналог DIN 8093-B

▲ Ø 0,95–3,75 мм, с двухсторонними центрами

NC  
100

~НА  
Левая спираль  
Твёрдый сплав

40 430 ...

| DC <sup>+0,004</sup><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|----------------------------|-----------|---------|----------|----------------------------|------|---------------------|
| 0,59 - 0,64                | 45        | 5       | 7,5      | 3                          | 4    | xxxxx <sup>1)</sup> |
| 0,65 - 0,74                | 45        | 5       | 7,5      | 3                          | 4    | xxxxx <sup>1)</sup> |
| 0,75 - 0,84                | 45        | 6       | 8,0      | 3                          | 4    | xxxxx <sup>1)</sup> |
| 0,85 - 0,95                | 45        | 6       | 8,0      | 3                          | 4    | xxxxx <sup>1)</sup> |
| 0,96                       | 50        | 6       | 17,5     | 3                          | 3    | 00960 <sup>1)</sup> |
| 0,97                       | 50        | 6       | 17,5     | 3                          | 3    | 00970 <sup>1)</sup> |
| 0,98                       | 50        | 6       | 17,5     | 3                          | 3    | 00980 <sup>2)</sup> |
| 0,99                       | 50        | 6       | 17,5     | 3                          | 3    | 00990 <sup>2)</sup> |
| 1,00                       | 50        | 6       | 17,5     | 3                          | 3    | 01000 <sup>2)</sup> |
| 1,01                       | 50        | 6       | 17,5     | 3                          | 3    | 01010 <sup>2)</sup> |
| 1,02                       | 50        | 6       | 17,5     | 3                          | 3    | 01020 <sup>2)</sup> |
| 1,03                       | 50        | 6       | 17,5     | 3                          | 3    | 01030 <sup>2)</sup> |
| 1,04 - 1,06                | 50        | 6       | 17,5     | 3                          | 3    | xxxxx <sup>2)</sup> |
| 1,07 - 1,18                | 50        | 9       | 17,5     | 3                          | 3    | xxxxx <sup>2)</sup> |
| 1,19 - 1,32                | 50        | 9       | 17,5     | 3                          | 3    | xxxxx <sup>2)</sup> |
| 1,33 - 1,50                | 50        | 9       | 18,0     | 3                          | 3    | xxxxx <sup>2)</sup> |
| 1,51 - 1,70                | 50        | 10      | 18,0     | 3                          | 3    | xxxxx <sup>2)</sup> |
| 1,71 - 1,90                | 50        | 11      | 18,5     | 3                          | 4    | xxxxx <sup>2)</sup> |
| 1,91 - 1,97                | 50        | 12      | 18,5     | 3                          | 4    | xxxxx <sup>2)</sup> |
| 1,98                       | 50        | 12      | 18,5     | 3                          | 4    | 01980               |
| 1,99                       | 50        | 12      | 18,5     | 3                          | 4    | 01990               |
| 2,00                       | 50        | 12      | 18,5     | 3                          | 4    | 02000               |
| 2,01                       | 50        | 12      | 18,5     | 3                          | 4    | 02010               |
| 2,02                       | 50        | 12      | 18,5     | 3                          | 4    | 02020               |
| 2,03                       | 50        | 12      | 18,5     | 3                          | 4    | 02030               |
| 2,04 - 2,12                | 50        | 12      | 18,5     | 3                          | 4    | xxxxx <sup>2)</sup> |
| 2,13 - 2,36                | 50        | 12      | 18,5     | 3                          | 4    | xxxxx <sup>2)</sup> |
| 2,37 - 2,47                | 60        | 16      | 29,0     | 3                          | 4    | xxxxx <sup>2)</sup> |
| 2,48                       | 60        | 16      | 29,0     | 3                          | 4    | 02480               |
| 2,49                       | 60        | 16      | 29,0     | 3                          | 4    | 02490               |
| 2,50                       | 60        | 16      | 29,0     | 3                          | 4    | 02500               |
| 2,51                       | 60        | 16      | 29,0     | 3                          | 4    | 02510               |
| 2,52                       | 60        | 16      | 29,0     | 3                          | 4    | 02520               |
| 2,53                       | 60        | 16      | 29,0     | 3                          | 4    | 02530               |
| 2,54 - 2,65                | 60        | 16      | 29,0     | 3                          | 4    | xxxxx <sup>2)</sup> |
| 2,66 - 2,80                | 65        | 17      | 33,0     | 4                          | 6    | xxxxx <sup>2)</sup> |
| 2,81 - 2,96                | 65        | 17      | 33,0     | 4                          | 6    | xxxxx <sup>2)</sup> |
| 2,97                       | 65        | 17      | 33,0     | 4                          | 6    | 02970               |
| 2,98                       | 65        | 17      | 33,0     | 4                          | 6    | 02980               |
| 2,99                       | 65        | 17      | 33,0     | 4                          | 6    | 02990               |
| 3,00                       | 65        | 17      | 33,0     | 4                          | 6    | 03000               |
| 3,01                       | 65        | 17      | 33,0     | 4                          | 6    | 03010               |
| 3,02                       | 65        | 17      | 33,0     | 4                          | 6    | 03020               |
| 3,03                       | 65        | 17      | 33,0     | 4                          | 6    | 03030               |
| 3,04 - 3,35                | 65        | 18      | 33,0     | 4                          | 6    | xxxxx <sup>2)</sup> |
| 3,36 - 3,75                | 75        | 18      | 43,0     | 4                          | 6    | xxxxx <sup>2)</sup> |
| 3,76 - 3,96                | 75        | 19      | 43,0     | 4                          | 6    | xxxxx <sup>2)</sup> |
| 3,97                       | 75        | 19      | 43,0     | 4                          | 6    | 03970               |
| 3,98                       | 75        | 19      | 43,0     | 4                          | 6    | 03980               |
| 3,99                       | 75        | 19      | 43,0     | 4                          | 6    | 03990               |
| 4,00                       | 75        | 19      | 43,0     | 4                          | 6    | 04000               |
| 4,01                       | 75        | 19      | 43,0     | 4                          | 6    | 04010               |
| 4,02                       | 75        | 19      | 43,0     | 4                          | 6    | 04020               |
| 4,03                       | 75        | 19      | 43,0     | 4                          | 6    | 04030               |
| 4,04 - 4,25                | 75        | 19      | 43,0     | 4                          | 6    | xxxxx <sup>2)</sup> |
| 4,26 - 4,75                | 80        | 21      | 39,0     | 6                          | 6    | xxxxx <sup>2)</sup> |
| 4,76 - 4,96                | 93        | 23      | 52,0     | 6                          | 6    | xxxxx <sup>2)</sup> |
| 4,97                       | 93        | 23      | 52,0     | 6                          | 6    | 04970               |
| 4,98                       | 93        | 23      | 52,0     | 6                          | 6    | 04980               |
| 4,99                       | 93        | 23      | 52,0     | 6                          | 6    | 04990               |

40 430 ...

| DC <sup>+0,004</sup><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|----------------------------|-----------|---------|----------|----------------------------|------|---------------------|
| 5,00                       | 93        | 23      | 52,0     | 6                          | 6    | 05000               |
| 5,01                       | 93        | 23      | 52,0     | 6                          | 6    | 05010               |
| 5,02                       | 93        | 23      | 52,0     | 6                          | 6    | 05020               |
| 5,03                       | 93        | 23      | 52,0     | 6                          | 6    | 05030               |
| 5,04 - 5,30                | 93        | 23      | 52,0     | 6                          | 6    | xxxxx <sup>2)</sup> |
| 5,31 - 5,96                | 93        | 26      | 53,0     | 6                          | 6    | xxxxx <sup>2)</sup> |
| 5,97                       | 93        | 26      | 53,0     | 6                          | 6    | 05970               |
| 5,98                       | 93        | 26      | 53,0     | 6                          | 6    | 05980               |
| 5,99                       | 93        | 26      | 53,0     | 6                          | 6    | 05990               |
| 6,00                       | 93        | 26      | 53,0     | 6                          | 6    | 06000               |
| 6,01                       | 93        | 26      | 53,0     | 6                          | 6    | 06010               |
| 6,02                       | 93        | 26      | 53,0     | 6                          | 6    | 06020               |
| 6,03                       | 93        | 26      | 53,0     | 6                          | 6    | 06030               |
| 6,04 - 6,70                | 101       | 28      | 61,0     | 6                          | 6    | xxxxx <sup>2)</sup> |
| 6,71 - 7,50                | 109       | 31      | 68,0     | 8                          | 6    | xxxxx <sup>2)</sup> |
| 7,51 - 7,96                | 117       | 33      | 77,0     | 8                          | 6    | xxxxx <sup>2)</sup> |
| 7,97                       | 117       | 33      | 77,0     | 8                          | 6    | 07970               |
| 7,98                       | 117       | 33      | 77,0     | 8                          | 6    | 07980               |
| 7,99                       | 117       | 33      | 77,0     | 8                          | 6    | 07990               |
| 8,00                       | 117       | 33      | 77,0     | 8                          | 6    | 08000               |
| 8,01                       | 117       | 33      | 77,0     | 8                          | 6    | 08010               |
| 8,02                       | 117       | 33      | 77,0     | 8                          | 6    | 08020               |
| 8,03                       | 117       | 33      | 77,0     | 8                          | 6    | 08030               |
| 8,04                       | 117       | 33      | 77,0     | 8                          | 6    | 08040               |
| 8,05 - 8,50                | 117       | 33      | 77,0     | 8                          | 6    | xxxxx <sup>2)</sup> |
| 8,51 - 9,04                | 125       | 36      | 80,0     | 10                         | 6    | xxxxx <sup>2)</sup> |
| 9,05 - 9,50                | 125       | 36      | 80,0     | 10                         | 6    | xxxxx <sup>2)</sup> |
| 9,51 - 9,96                | 133       | 38      | 88,0     | 10                         | 6    | xxxxx <sup>2)</sup> |
| 9,97                       | 133       | 38      | 88,0     | 10                         | 6    | 09970               |
| 9,98                       | 133       | 38      | 88,0     | 10                         | 6    | 09980               |
| 9,99                       | 133       | 38      | 88,0     | 10                         | 6    | 09990               |
| 10,00                      | 133       | 38      | 88,0     | 10                         | 6    | 10000               |
| 10,01                      | 133       | 38      | 88,0     | 10                         | 6    | 10010               |
| 10,02                      | 133       | 38      | 88,0     | 10                         | 6    | 10020               |
| 10,03                      | 133       | 38      | 88,0     | 10                         | 6    | 10030               |
| 10,04                      | 133       | 38      | 88,0     | 10                         | 6    | 10040               |
| 10,05                      | 133       | 38      | 88,0     | 10                         | 6    | 10050               |
| 10,06 - 10,60              | 133       | 38      | 88,0     | 10                         | 6    | xxxxx <sup>2)</sup> |
| 10,61 - 11,80              | 142       | 41      | 97,0     | 10                         | 6    | xxxxx <sup>2)</sup> |
| 11,81 - 11,96              | 151       | 44      | 100,0    | 12                         | 6    | xxxxx <sup>2)</sup> |
| 11,97                      | 151       | 44      | 100,0    | 12                         | 6    | 11970               |
| 11,98                      | 151       | 44      | 100,0    | 12                         | 6    | 11980               |
| 11,99                      | 151       | 44      | 100,0    | 12                         | 6    | 11990               |
| 12,00                      | 151       | 44      | 100,0    | 12                         | 6    | 12000               |
| 12,01                      | 151       | 44      | 100,0    | 12                         | 6    | 12010               |
| 12,02                      | 151       | 44      | 100,0    | 12                         | 6    | 12020               |
| 12,03                      | 151       | 44      | 100,0    | 12                         | 6    | 12030               |
| 12,04                      | 151       | 44      | 100,0    | 12                         | 6    | 12040               |
| 12,05                      | 151       | 44      | 100,0    | 12                         | 6    | 12050               |

|   |   |
|---|---|
| P | ● |
| M |   |
| K | ○ |
| N | ● |
| S |   |
| H |   |
| O | ● |

→ v<sub>c</sub> стр. 78

- 1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 22 рабочих дня / Мин. количество для заказа – 3 шт.
- 2) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 22 рабочих дня



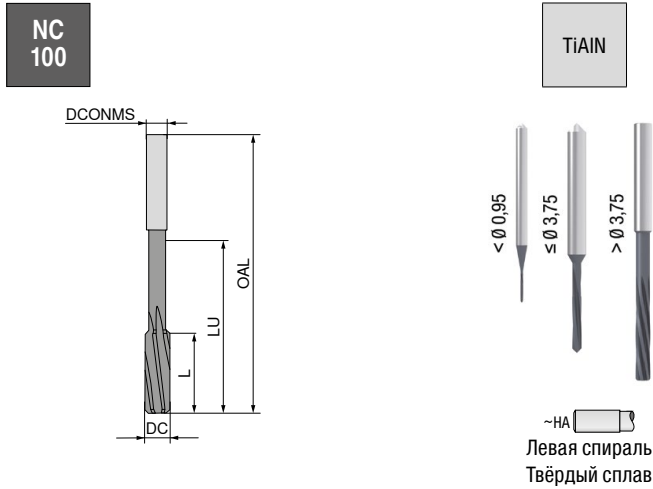
Данные развёртки изготавливаются с различными допусками.

Точные размеры см. в таблице на → стр. 80

При заказе xxxx следует указывать требуемый диаметр (например, Ø 8,05 мм → арт. № 40 430 08050)!

# Развёртка машинная, DIN 8093-2B

- ▲ С шагом 0,01 мм
- ▲ Неравномерный шаг зубьев
- ▲ Ø 0,6–0,94 мм, аналог DIN 8093-B
- ▲ Ø 0,95–3,75 мм, с двухсторонними центрами



| DC <sup>+0,004</sup><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|----------------------------|-----------|---------|----------|----------------------------|------|---------------------|
| 1,00                       | 50        | 6       | 17,5     | 3                          | 3    | 01000 <sup>1)</sup> |
| 1,01                       | 50        | 6       | 17,5     | 3                          | 3    | 01010 <sup>1)</sup> |
| 1,02                       | 50        | 6       | 17,5     | 3                          | 3    | 01020 <sup>1)</sup> |
| 1,03                       | 50        | 6       | 17,5     | 3                          | 3    | 01030 <sup>1)</sup> |
| 1,04 - 1,06                | 50        | 6       | 17,5     | 3                          | 3    | xxxxx <sup>1)</sup> |
| 1,07 - 1,18                | 50        | 9       | 17,5     | 3                          | 3    | xxxxx <sup>1)</sup> |
| 1,19 - 1,32                | 50        | 9       | 17,5     | 3                          | 3    | xxxxx <sup>1)</sup> |
| 1,33 - 1,50                | 50        | 9       | 18,0     | 3                          | 3    | xxxxx <sup>1)</sup> |
| 1,51 - 1,70                | 50        | 10      | 18,0     | 3                          | 3    | xxxxx <sup>1)</sup> |
| 1,71 - 1,90                | 50        | 11      | 18,5     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 1,91 - 1,97                | 50        | 12      | 18,5     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 1,98                       | 50        | 12      | 18,5     | 3                          | 4    | 01980               |
| 1,99                       | 50        | 12      | 18,5     | 3                          | 4    | 01990               |
| 2,00                       | 50        | 12      | 18,5     | 3                          | 4    | 02000               |
| 2,01                       | 50        | 12      | 18,5     | 3                          | 4    | 02010               |
| 2,02                       | 50        | 12      | 18,5     | 3                          | 4    | 02020               |
| 2,03                       | 50        | 12      | 18,5     | 3                          | 4    | 02030               |
| 2,04 - 2,12                | 50        | 12      | 18,5     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,13 - 2,36                | 50        | 12      | 18,5     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,37 - 2,47                | 60        | 16      | 29,0     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,48                       | 60        | 16      | 29,0     | 3                          | 4    | 02480               |
| 2,49                       | 60        | 16      | 29,0     | 3                          | 4    | 02490               |
| 2,50                       | 60        | 16      | 29,0     | 3                          | 4    | 02500               |
| 2,51                       | 60        | 16      | 29,0     | 3                          | 4    | 02510               |
| 2,52                       | 60        | 16      | 29,0     | 3                          | 4    | 02520               |
| 2,53                       | 60        | 16      | 29,0     | 3                          | 4    | 02530               |
| 2,54 - 2,65                | 60        | 16      | 29,0     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,66 - 2,80                | 65        | 17      | 33,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 2,81 - 2,96                | 65        | 17      | 33,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 2,97                       | 65        | 17      | 33,0     | 4                          | 6    | 02970               |
| 2,98                       | 65        | 17      | 33,0     | 4                          | 6    | 02980               |
| 2,99                       | 65        | 17      | 33,0     | 4                          | 6    | 02990               |
| 3,00                       | 65        | 17      | 33,0     | 4                          | 6    | 03000               |
| 3,01                       | 65        | 17      | 33,0     | 4                          | 6    | 03010               |
| 3,02                       | 65        | 17      | 33,0     | 4                          | 6    | 03020               |
| 3,03                       | 65        | 17      | 33,0     | 4                          | 6    | 03030               |
| 3,04 - 3,35                | 65        | 18      | 33,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 3,36 - 3,75                | 75        | 18      | 43,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 3,76 - 3,96                | 75        | 19      | 43,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 3,97                       | 75        | 19      | 43,0     | 4                          | 6    | 03970               |
| 3,98                       | 75        | 19      | 43,0     | 4                          | 6    | 03980               |
| 3,99                       | 75        | 19      | 43,0     | 4                          | 6    | 03990               |
| 4,00                       | 75        | 19      | 43,0     | 4                          | 6    | 04000               |
| 4,01                       | 75        | 19      | 43,0     | 4                          | 6    | 04010               |
| 4,02                       | 75        | 19      | 43,0     | 4                          | 6    | 04020               |
| 4,03                       | 75        | 19      | 43,0     | 4                          | 6    | 04030               |
| 4,04 - 4,25                | 75        | 19      | 43,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 4,26 - 4,75                | 80        | 21      | 39,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 4,76 - 4,96                | 93        | 23      | 52,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 4,97                       | 93        | 23      | 52,0     | 6                          | 6    | 04970               |
| 4,98                       | 93        | 23      | 52,0     | 6                          | 6    | 04980               |
| 4,99                       | 93        | 23      | 52,0     | 6                          | 6    | 04990               |
| 5,00                       | 93        | 23      | 52,0     | 6                          | 6    | 05000               |
| 5,01                       | 93        | 23      | 52,0     | 6                          | 6    | 05010               |
| 5,02                       | 93        | 23      | 52,0     | 6                          | 6    | 05020               |
| 5,03                       | 93        | 23      | 52,0     | 6                          | 6    | 05030               |
| 5,04 - 5,30                | 93        | 23      | 52,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 5,31 - 5,96                | 93        | 26      | 53,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 5,97                       | 93        | 26      | 53,0     | 6                          | 6    | 05970               |
| 5,98                       | 93        | 26      | 53,0     | 6                          | 6    | 05980               |

| DC <sup>+0,004</sup><br>mm | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP | 40 431 ...          |
|----------------------------|-----------|---------|----------|----------------------------|------|---------------------|
| 5,99                       | 93        | 26      | 53,0     | 6                          | 6    | 05990               |
| 6,00                       | 93        | 26      | 53,0     | 6                          | 6    | 06000               |
| 6,01                       | 93        | 26      | 53,0     | 6                          | 6    | 06010               |
| 6,02                       | 93        | 26      | 53,0     | 6                          | 6    | 06020               |
| 6,03                       | 93        | 26      | 53,0     | 6                          | 6    | 06030               |
| 6,04 - 6,70                | 101       | 28      | 61,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 6,71 - 7,50                | 109       | 31      | 68,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,51 - 7,96                | 117       | 33      | 77,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,97                       | 117       | 33      | 77,0     | 8                          | 6    | 07970               |
| 7,98                       | 117       | 33      | 77,0     | 8                          | 6    | 07980               |
| 7,99                       | 117       | 33      | 77,0     | 8                          | 6    | 07990               |
| 8,00                       | 117       | 33      | 77,0     | 8                          | 6    | 08000               |
| 8,01                       | 117       | 33      | 77,0     | 8                          | 6    | 08010               |
| 8,02                       | 117       | 33      | 77,0     | 8                          | 6    | 08020               |
| 8,03                       | 117       | 33      | 77,0     | 8                          | 6    | 08030               |
| 8,04                       | 117       | 33      | 77,0     | 8                          | 6    | 08040               |
| 8,05 - 8,50                | 117       | 33      | 77,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 8,51 - 9,04                | 125       | 36      | 80,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,05 - 9,50                | 125       | 36      | 80,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,51 - 9,96                | 133       | 38      | 88,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,97                       | 133       | 38      | 88,0     | 10                         | 6    | 09970               |
| 9,98                       | 133       | 38      | 88,0     | 10                         | 6    | 09980               |
| 9,99                       | 133       | 38      | 88,0     | 10                         | 6    | 09990               |
| 10,00                      | 133       | 38      | 88,0     | 10                         | 6    | 10000               |
| 10,01                      | 133       | 38      | 88,0     | 10                         | 6    | 10010               |
| 10,02                      | 133       | 38      | 88,0     | 10                         | 6    | 10020               |
| 10,03                      | 133       | 38      | 88,0     | 10                         | 6    | 10030               |
| 10,04                      | 133       | 38      | 88,0     | 10                         | 6    | 10040               |
| 10,05                      | 133       | 38      | 88,0     | 10                         | 6    | 10050               |
| 10,06 - 10,60              | 133       | 38      | 88,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 10,61 - 11,80              | 142       | 41      | 97,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 11,81 - 11,96              | 151       | 44      | 100,0    | 12                         | 6    | xxxxx <sup>1)</sup> |
| 11,97                      | 151       | 44      | 100,0    | 12                         | 6    | 11970               |
| 11,98                      | 151       | 44      | 100,0    | 12                         | 6    | 11980               |
| 11,99                      | 151       | 44      | 100,0    | 12                         | 6    | 11990               |
| 12,00                      | 151       | 44      | 100,0    | 12                         | 6    | 12000               |
| 12,01                      | 151       | 44      | 100,0    | 12                         | 6    | 12010               |
| 12,02                      | 151       | 44      | 100,0    | 12                         | 6    | 12020               |
| 12,03                      | 151       | 44      | 100,0    | 12                         | 6    | 12030               |
| 12,04                      | 151       | 44      | 100,0    | 12                         | 6    | 12040               |
| 12,05                      | 151       | 44      | 100,0    | 12                         | 6    | 12050               |

→ v<sub>c</sub> стр. 78  
1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 22 рабочих дня

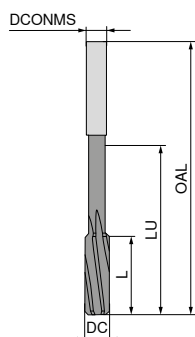
Данные развёртки изготавливаются с различными допусками. Точные размеры см. в таблице на → стр. 80  
При заказе xxxx следует указывать требуемый диаметр (например, Ø 8,05 мм → арт. № 40 431 08050)!

## Развёртка машинная, DIN 212-3-B

▲ С шагом 0,01 мм

▲ Допуск: Ø 1,00 - Ø 5,50 мм = +0,004 мм

▲ Допуск: Ø 5,51 - Ø 12,00 мм = +0,005 мм

NC  
100Левая спираль  
HSS-E

40 115 ...

| DC<br>mm    | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|-------------|-----------|---------|----------|----------------------------|------|---------------------|
| 0,95 - 0,99 | 34        | 5,5     | 12,5     | 1                          | 3    | xxxxx <sup>1)</sup> |
| 1,00        | 34        | 5,5     | 12,5     | 1                          | 3    | 01000               |
| 1,01        | 34        | 5,5     | 12,5     | 1                          | 3    | 01010               |
| 1,02        | 34        | 5,5     | 12,5     | 1                          | 3    | 01020               |
| 1,03 - 1,06 | 34        | 5,5     | 12,5     | 1                          | 3    | xxxxx <sup>1)</sup> |
| 1,07 - 1,18 | 36        | 6,5     | 13,0     | 1                          | 3    | xxxxx <sup>1)</sup> |
| 1,19 - 1,32 | 38        | 7,5     | 14,0     | 2                          | 3    | xxxxx <sup>1)</sup> |
| 1,33 - 1,41 | 40        | 8,0     | 15,5     | 2                          | 3    | xxxxx <sup>1)</sup> |
| 1,42 - 1,49 | 40        | 8,0     | 15,5     | 2                          | 3    | xxxxx <sup>1)</sup> |
| 1,50        | 40        | 8,0     | 15,5     | 2                          | 3    | 01500               |
| 1,51        | 43        | 9,0     | 16,0     | 2                          | 3    | 01510               |
| 1,52        | 43        | 9,0     | 16,0     | 2                          | 3    | 01520               |
| 1,53 - 1,70 | 43        | 9,0     | 16,0     | 2                          | 3    | xxxxx <sup>1)</sup> |
| 1,71 - 1,90 | 46        | 10,0    | 19,0     | 2                          | 4    | xxxxx <sup>1)</sup> |
| 1,91 - 1,96 | 49        | 11,0    | 21,0     | 2                          | 4    | xxxxx <sup>1)</sup> |
| 1,97        | 49        | 11,0    | 21,0     | 2                          | 4    | 01970               |
| 1,98        | 49        | 11,0    | 21,0     | 2                          | 4    | 01980               |
| 1,99        | 49        | 11,0    | 21,0     | 2                          | 4    | 01990               |
| 2,00        | 49        | 11,0    | 21,0     | 2                          | 4    | 02000               |
| 2,01        | 49        | 11,0    | 21,0     | 2                          | 4    | 02010               |
| 2,02        | 49        | 11,0    | 21,0     | 2                          | 4    | 02020               |
| 2,03 - 2,12 | 49        | 11,0    | 21,0     | 2                          | 4    | xxxxx <sup>1)</sup> |
| 2,13 - 2,36 | 53        | 12,0    | 22,0     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,37 - 2,47 | 57        | 14,0    | 26,0     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,48        | 57        | 14,0    | 26,0     | 3                          | 4    | 02480               |
| 2,49        | 57        | 14,0    | 26,0     | 3                          | 4    | 02490               |
| 2,50        | 57        | 14,0    | 26,0     | 3                          | 4    | 02500               |
| 2,51        | 57        | 14,0    | 26,0     | 3                          | 4    | 02510               |
| 2,52        | 57        | 14,0    | 26,0     | 3                          | 4    | 02520               |
| 2,53 - 2,65 | 57        | 14,0    | 26,0     | 3                          | 4    | xxxxx <sup>1)</sup> |
| 2,66 - 2,96 | 61        | 15,0    | 30,0     | 3                          | 6    | xxxxx <sup>1)</sup> |
| 2,97        | 61        | 15,0    | 30,0     | 3                          | 6    | 02970               |
| 2,98        | 61        | 15,0    | 30,0     | 3                          | 6    | 02980               |
| 2,99        | 61        | 15,0    | 30,0     | 3                          | 6    | 02990               |
| 3,00        | 61        | 15,0    | 30,0     | 3                          | 6    | 03000               |
| 3,01        | 61        | 15,0    | 30,0     | 3                          | 6    | 03010               |
| 3,02        | 61        | 15,0    | 30,0     | 3                          | 6    | 03020               |
| 3,03        | 61        | 15,0    | 30,0     | 3                          | 6    | 03030 <sup>1)</sup> |
| 3,04 - 3,35 | 65        | 16,0    | 34,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 3,36 - 3,75 | 70        | 18,0    | 39,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 3,76 - 3,96 | 75        | 19,0    | 44,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 3,97        | 75        | 19,0    | 44,0     | 4                          | 6    | 03970               |
| 3,98        | 75        | 19,0    | 44,0     | 4                          | 6    | 03980               |
| 3,99        | 75        | 19,0    | 44,0     | 4                          | 6    | 03990               |
| 4,00        | 75        | 19,0    | 44,0     | 4                          | 6    | 04000               |
| 4,01        | 75        | 19,0    | 44,0     | 4                          | 6    | 04010               |
| 4,02        | 75        | 19,0    | 44,0     | 4                          | 6    | 04020               |
| 4,03 - 4,25 | 75        | 19,0    | 44,0     | 4                          | 6    | xxxxx <sup>1)</sup> |
| 4,26 - 4,75 | 80        | 21,0    | 48,0     | 5                          | 6    | xxxxx <sup>1)</sup> |
| 4,76 - 4,96 | 86        | 23,0    | 54,0     | 5                          | 6    | xxxxx <sup>1)</sup> |
| 4,97        | 86        | 23,0    | 54,0     | 5                          | 6    | 04970               |
| 4,98        | 86        | 23,0    | 54,0     | 5                          | 6    | 04980               |
| 4,99        | 86        | 23,0    | 54,0     | 5                          | 6    | 04990               |
| 5,00        | 86        | 23,0    | 54,0     | 5                          | 6    | 05000               |
| 5,01        | 86        | 23,0    | 54,0     | 5                          | 6    | 05010               |
| 5,02        | 86        | 23,0    | 54,0     | 5                          | 6    | 05020               |

40 115 ...

| DC<br>mm      | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>h6</sub><br>mm | ZEFP |                     |
|---------------|-----------|---------|----------|----------------------------|------|---------------------|
| 5,03 - 5,30   | 86        | 23,0    | 54,0     | 5                          | 6    | xxxxx <sup>1)</sup> |
| 5,31 - 5,60   | 93        | 26,0    | 53,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 5,61 - 5,96   | 93        | 26,0    | 53,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 5,97          | 93        | 26,0    | 53,0     | 6                          | 6    | 05970               |
| 5,98          | 93        | 26,0    | 53,0     | 6                          | 6    | 05980               |
| 5,99          | 93        | 26,0    | 53,0     | 6                          | 6    | 05990               |
| 6,00          | 93        | 26,0    | 53,0     | 6                          | 6    | 06000               |
| 6,01          | 93        | 26,0    | 53,0     | 6                          | 6    | 06010               |
| 6,02          | 93        | 26,0    | 53,0     | 6                          | 6    | 06020               |
| 6,03          | 93        | 26,0    | 53,0     | 6                          | 6    | 06030 <sup>1)</sup> |
| 6,04 - 6,70   | 101       | 28,0    | 61,0     | 6                          | 6    | xxxxx <sup>1)</sup> |
| 6,71 - 7,20   | 109       | 31,0    | 69,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,21 - 7,50   | 109       | 31,0    | 69,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,51 - 7,96   | 117       | 33,0    | 77,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 7,97          | 117       | 33,0    | 77,0     | 8                          | 6    | 07970               |
| 7,98          | 117       | 33,0    | 77,0     | 8                          | 6    | 07980               |
| 7,99          | 117       | 33,0    | 77,0     | 8                          | 6    | 07990               |
| 8,00          | 117       | 33,0    | 77,0     | 8                          | 6    | 08000               |
| 8,01          | 117       | 33,0    | 77,0     | 8                          | 6    | 08010               |
| 8,02          | 117       | 33,0    | 77,0     | 8                          | 6    | 08020               |
| 8,03 - 8,20   | 117       | 33,0    | 77,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 8,21 - 8,50   | 117       | 33,0    | 77,0     | 8                          | 6    | xxxxx <sup>1)</sup> |
| 8,51 - 8,99   | 125       | 36,0    | 81,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,00          | 125       | 36,0    | 81,0     | 10                         | 6    | 09000               |
| 9,01          | 125       | 36,0    | 81,0     | 10                         | 6    | 09010               |
| 9,02          | 125       | 36,0    | 81,0     | 10                         | 6    | 09020               |
| 9,03 - 9,20   | 125       | 36,0    | 81,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,21 - 9,50   | 125       | 36,0    | 81,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,51 - 9,96   | 133       | 38,0    | 89,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 9,97          | 133       | 38,0    | 89,0     | 10                         | 6    | 09970               |
| 9,98          | 133       | 38,0    | 89,0     | 10                         | 6    | 09980               |
| 9,99          | 133       | 38,0    | 89,0     | 10                         | 6    | 09990               |
| 10,00         | 133       | 38,0    | 89,0     | 10                         | 6    | 10000               |
| 10,01         | 133       | 38,0    | 89,0     | 10                         | 6    | 10010               |
| 10,02         | 133       | 38,0    | 89,0     | 10                         | 6    | 10020               |
| 10,03 - 10,20 | 133       | 38,0    | 89,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 10,21 - 10,60 | 133       | 38,0    | 89,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 10,61 - 11,20 | 142       | 41,0    | 98,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 11,21 - 11,80 | 142       | 41,0    | 98,0     | 10                         | 6    | xxxxx <sup>1)</sup> |
| 11,81 - 11,96 | 151       | 44,0    | 106,0    | 10                         | 6    | xxxxx <sup>1)</sup> |
| 11,97         | 151       | 44,0    | 106,0    | 10                         | 6    | 11970               |
| 11,98         | 151       | 44,0    | 106,0    | 10                         | 6    | 11980               |
| 11,99         | 151       | 44,0    | 106,0    | 10                         | 6    | 11990               |
| 12,00         | 151       | 44,0    | 106,0    | 10                         | 6    | 12000               |

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|---|---|
| P | ● |
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| K | ● |
| N | ● |
| S |   |
| H |   |
| O | ● |

→ v<sub>c</sub> стр. 791) Изготавливается по запросу. Обмену и возврату не подлежит / Мин.  
количество для заказа — 5 шт.

Данные развёртки изготавливаются с различными допусками.

Точные размеры см. в таблице на → стр. 80.

При заказе xxxx следует указывать требуемый диаметр  
(например, Ø 8,03 мм → арт. № 40 115 08030!)

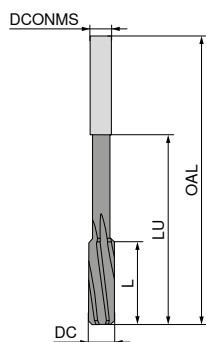


## Развёртка машинная, DIN 212-B

▲ С шагом 0,01 мм

▲ Допуск: Ø 0,95 – 5,50 мм = +0,004 мм

▲ Допуск: Ø 5,51 – 12,00 мм = +0,005 мм

N  
100Левая спираль  
HSS-E

40 140 ...

| DC<br>mm    | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>н9</sub><br>mm | ZEFP |                    |
|-------------|-----------|---------|----------|----------------------------|------|--------------------|
| 0,95 - 1,06 | 34        | 5,5     | 13       | 1,0                        | 3    | xxxx <sup>1)</sup> |
| 1,07 - 1,18 | 36        | 6,5     | 14       | 1,1                        | 3    | xxxx <sup>1)</sup> |
| 1,19 - 1,32 | 38        | 7,5     | 15       | 1,2                        | 3    | xxxx <sup>1)</sup> |
| 1,33 - 1,39 | 40        | 8,0     | 16       | 1,4                        | 3    | xxxx <sup>1)</sup> |
| 1,40 - 1,47 | 40        | 8,0     | 16       | 1,4                        | 3    | xxxx <sup>1)</sup> |
| 1,48        | 40        | 8,0     | 16       | 1,4                        | 3    | 01480              |
| 1,49        | 40        | 8,0     | 16       | 1,4                        | 3    | 01490              |
| 1,50        | 40        | 8,0     | 16       | 1,4                        | 3    | 01500              |
| 1,51 - 1,70 | 43        | 9,0     | 18       | 1,6                        | 3    | xxxx <sup>1)</sup> |
| 1,71 - 1,90 | 46        | 10,0    | 20       | 1,8                        | 4    | xxxx <sup>1)</sup> |
| 1,91 - 1,97 | 49        | 11,0    | 22       | 2,0                        | 4    | xxxx <sup>1)</sup> |
| 1,98        | 49        | 11,0    | 22       | 2,0                        | 4    | 01980              |
| 1,99        | 49        | 11,0    | 22       | 2,0                        | 4    | 01990              |
| 2,00        | 49        | 11,0    | 22       | 2,0                        | 4    | 02000              |
| 2,01        | 49        | 11,0    | 22       | 2,0                        | 4    | 02010              |
| 2,02        | 49        | 11,0    | 22       | 2,0                        | 4    | 02020              |
| 2,03        | 49        | 11,0    | 22       | 2,0                        | 4    | 02030              |
| 2,04        | 49        | 11,0    | 22       | 2,0                        | 4    | 02040              |
| 2,05        | 49        | 11,0    | 22       | 2,0                        | 4    | 02050              |
| 2,06 - 2,09 | 49        | 11,0    | 22       | 2,0                        | 4    | xxxx <sup>1)</sup> |
| 2,10 - 2,12 | 49        | 11,0    | 22       | 2,0                        | 4    | xxxx <sup>1)</sup> |
| 2,13 - 2,36 | 53        | 12,0    | 24       | 2,2                        | 4    | xxxx <sup>1)</sup> |
| 2,37 - 2,49 | 57        | 14,0    | 26       | 2,5                        | 4    | xxxx <sup>1)</sup> |
| 2,50 - 2,59 | 57        | 14,0    | 26       | 2,5                        | 4    | xxxx <sup>1)</sup> |
| 2,60 - 2,65 | 57        | 14,0    | 26       | 2,5                        | 4    | xxxx <sup>1)</sup> |
| 2,66 - 2,80 | 61        | 15,0    | 30       | 2,8                        | 6    | xxxx <sup>1)</sup> |
| 2,81 - 2,94 | 61        | 15,0    | 29       | 3,0                        | 6    | xxxx <sup>1)</sup> |
| 2,95        | 61        | 15,0    | 29       | 3,0                        | 6    | 02950              |
| 2,96        | 61        | 15,0    | 29       | 3,0                        | 6    | 02960              |
| 2,97        | 61        | 15,0    | 29       | 3,0                        | 6    | 02970              |
| 2,98        | 61        | 15,0    | 29       | 3,0                        | 6    | 02980              |
| 2,99        | 61        | 15,0    | 29       | 3,0                        | 6    | 02990              |
| 3,00        | 61        | 15,0    | 29       | 3,0                        | 6    | 03000              |
| 3,01        | 65        | 16,0    | 33       | 3,2                        | 6    | 03010              |
| 3,02        | 65        | 16,0    | 33       | 3,2                        | 6    | 03020              |
| 3,03        | 65        | 16,0    | 33       | 3,2                        | 6    | 03030              |
| 3,04        | 65        | 16,0    | 33       | 3,2                        | 6    | 03040              |
| 3,05        | 65        | 16,0    | 33       | 3,2                        | 6    | 03050              |
| 3,06        | 65        | 16,0    | 33       | 3,2                        | 6    | 03060              |
| 3,07        | 65        | 16,0    | 33       | 3,2                        | 6    | 03070              |
| 3,08 - 3,09 | 65        | 16,0    | 33       | 3,2                        | 6    | xxxx <sup>1)</sup> |
| 3,10 - 3,35 | 65        | 16,0    | 33       | 3,2                        | 6    | xxxx <sup>1)</sup> |
| 3,36 - 3,49 | 70        | 18,0    | 38       | 3,5                        | 6    | xxxx <sup>1)</sup> |
| 3,50 - 3,59 | 70        | 18,0    | 38       | 3,5                        | 6    | xxxx <sup>1)</sup> |
| 3,60 - 3,75 | 70        | 18,0    | 38       | 3,5                        | 6    | xxxx <sup>1)</sup> |
| 3,76 - 3,81 | 75        | 19,0    | 46       | 4,0                        | 6    | xxxx <sup>1)</sup> |
| 3,82 - 3,94 | 75        | 19,0    | 46       | 4,0                        | 6    | xxxx <sup>1)</sup> |
| 3,95        | 75        | 19,0    | 46       | 4,0                        | 6    | 03950              |
| 3,96        | 75        | 19,0    | 46       | 4,0                        | 6    | 03960              |
| 3,97        | 75        | 19,0    | 46       | 4,0                        | 6    | 03970              |
| 3,98        | 75        | 19,0    | 46       | 4,0                        | 6    | 03980              |
| 3,99        | 75        | 19,0    | 46       | 4,0                        | 6    | 03990              |

40 140 ...

| DC<br>mm    | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>н9</sub><br>mm | ZEFP |                    |
|-------------|-----------|---------|----------|----------------------------|------|--------------------|
| 4,00        | 75        | 19,0    | 46       | 4,0                        | 6    | 04000              |
| 4,01        | 75        | 19,0    | 46       | 4,0                        | 6    | 04010              |
| 4,02        | 75        | 19,0    | 46       | 4,0                        | 6    | 04020              |
| 4,03        | 75        | 19,0    | 46       | 4,0                        | 6    | 04030              |
| 4,04        | 75        | 19,0    | 46       | 4,0                        | 6    | 04040              |
| 4,05        | 75        | 19,0    | 46       | 4,0                        | 6    | 04050              |
| 4,06        | 75        | 19,0    | 46       | 4,0                        | 6    | 04060              |
| 4,07        | 75        | 19,0    | 46       | 4,0                        | 6    | 04070              |
| 4,08        | 75        | 19,0    | 46       | 4,0                        | 6    | 04080              |
| 4,09 - 4,20 | 75        | 19,0    | 46       | 4,0                        | 6    | xxxx <sup>1)</sup> |
| 4,21 - 4,25 | 75        | 19,0    | 46       | 4,0                        | 6    | xxxx <sup>1)</sup> |
| 4,26 - 4,75 | 80        | 21,0    | 51       | 4,5                        | 5    | xxxx <sup>1)</sup> |
| 4,76 - 4,95 | 86        | 23,0    | 57       | 5,0                        | 6    | xxxx <sup>1)</sup> |
| 4,96        | 86        | 23,0    | 57       | 5,0                        | 6    | 04960              |
| 4,97        | 86        | 23,0    | 57       | 5,0                        | 6    | 04970              |
| 4,98        | 86        | 23,0    | 57       | 5,0                        | 6    | 04980              |
| 4,99        | 86        | 23,0    | 57       | 5,0                        | 6    | 04990              |
| 5,00        | 86        | 23,0    | 57       | 5,0                        | 6    | 05000              |
| 5,01        | 86        | 23,0    | 57       | 5,0                        | 6    | 05010              |
| 5,02        | 86        | 23,0    | 57       | 5,0                        | 6    | 05020              |
| 5,03        | 86        | 23,0    | 57       | 5,0                        | 6    | 05030              |
| 5,04        | 86        | 23,0    | 57       | 5,0                        | 6    | 05040              |
| 5,05        | 86        | 23,0    | 57       | 5,0                        | 6    | 05050              |
| 5,06        | 86        | 23,0    | 57       | 5,0                        | 6    | 05060              |
| 5,07        | 86        | 23,0    | 57       | 5,0                        | 6    | 05070              |
| 5,08 - 5,20 | 86        | 23,0    | 57       | 5,0                        | 6    | xxxx <sup>1)</sup> |
| 5,21 - 5,30 | 86        | 23,0    | 57       | 5,0                        | 6    | xxxx <sup>1)</sup> |
| 5,31 - 5,94 | 93        | 26,0    | 56       | 5,6                        | 6    | xxxx <sup>1)</sup> |
| 5,95        | 93        | 26,0    | 56       | 5,6                        | 6    | 05950              |
| 5,96        | 93        | 26,0    | 56       | 5,6                        | 6    | 05960              |
| 5,97        | 93        | 26,0    | 56       | 5,6                        | 6    | 05970              |
| 5,98        | 93        | 26,0    | 56       | 5,6                        | 6    | 05980              |
| 5,99        | 93        | 26,0    | 56       | 5,6                        | 6    | 05990              |

|   |   |
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| M | ○ |
| K | ● |
| N | ● |
| S | ○ |
| H |   |
| O | ● |

→ v<sub>c</sub> стр. 79

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 24 рабочих дня



Данные развёртки изготавливаются с различными допусками.

Точные размеры см. в таблице на → стр. 80.

При заказе xxxx следует указывать требуемый диаметр  
(например, Ø 10,06 мм → арт. № 40 140 10060)!

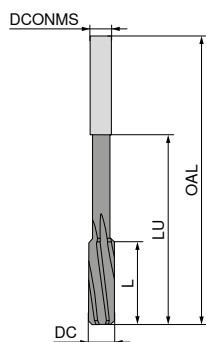


## Развёртка машинная, DIN 212-B

▲ С шагом 0,01 мм

▲ Допуск: Ø 0,95 – 5,50 мм = +0,004 мм

▲ Допуск: Ø 5,51 – 12,00 мм = +0,005 мм

N  
100Левая спираль  
HSS-E

40 140 ...

| DC<br>mm    | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>н9</sub><br>mm | ZEFP |                     |
|-------------|-----------|---------|----------|----------------------------|------|---------------------|
| 6,00        | 93        | 26      | 56       | 6,3                        | 6    | 06000               |
| 6,01        | 101       | 28      | 72       | 6,3                        | 6    | 06010               |
| 6,02        | 101       | 28      | 72       | 6,3                        | 6    | 06020               |
| 6,03        | 101       | 28      | 72       | 6,3                        | 6    | 06030               |
| 6,04        | 101       | 28      | 72       | 6,3                        | 6    | 06040               |
| 6,05        | 101       | 28      | 72       | 6,3                        | 6    | 06050               |
| 6,06 - 6,11 | 101       | 28      | 72       | 6,3                        | 6    | xxxx <sup>1)</sup>  |
| 6,12 - 6,34 | 101       | 28      | 72       | 6,3                        | 6    | xxxx <sup>1)</sup>  |
| 6,35        | 101       | 28      | 72       | 6,3                        | 6    | 06350               |
| 6,36        | 101       | 28      | 72       | 6,3                        | 6    | 06360 <sup>1)</sup> |
| 6,71 - 6,94 | 109       | 31      | 80       | 7,1                        | 6    | xxxx <sup>1)</sup>  |
| 6,95        | 109       | 31      | 80       | 7,1                        | 6    | 06950               |
| 6,96        | 109       | 31      | 80       | 7,1                        | 6    | 06960               |
| 6,97        | 109       | 31      | 80       | 7,1                        | 6    | 06970               |
| 6,98        | 109       | 31      | 80       | 7,1                        | 6    | 06980               |
| 6,99        | 109       | 31      | 80       | 7,1                        | 6    | 06990               |
| 7,00        | 109       | 31      | 80       | 7,1                        | 6    | 07000               |
| 7,01        | 109       | 31      | 80       | 7,1                        | 6    | 07010               |
| 7,02        | 109       | 31      | 80       | 7,1                        | 6    | 07020               |
| 7,03        | 109       | 31      | 80       | 7,1                        | 6    | 07030               |
| 7,04 - 7,50 | 109       | 31      | 80       | 7,1                        | 6    | xxxx <sup>1)</sup>  |
| 7,51 - 7,63 | 117       | 33      | 80       | 7,1                        | 6    | xxxx <sup>1)</sup>  |
| 7,64 - 7,94 | 117       | 33      | 80       | 8,0                        | 6    | xxxx <sup>1)</sup>  |
| 7,95        | 117       | 33      | 84       | 8,0                        | 6    | 07950               |
| 7,96        | 117       | 33      | 84       | 8,0                        | 6    | 07960               |
| 7,97        | 117       | 33      | 84       | 8,0                        | 6    | 07970               |
| 7,98        | 117       | 33      | 84       | 8,0                        | 6    | 07980               |
| 7,99        | 117       | 33      | 84       | 8,0                        | 6    | 07990               |
| 8,00        | 117       | 33      | 84       | 8,0                        | 6    | 08000               |
| 8,01        | 117       | 33      | 84       | 8,0                        | 6    | 08010               |
| 8,02        | 117       | 33      | 84       | 8,0                        | 6    | 08020               |
| 8,03        | 117       | 33      | 84       | 8,0                        | 6    | 08030               |
| 8,04        | 117       | 33      | 84       | 8,0                        | 6    | 08040               |
| 8,05        | 117       | 33      | 84       | 8,0                        | 6    | 08050               |
| 8,06 - 8,20 | 117       | 33      | 84       | 8,0                        | 6    | xxxx <sup>1)</sup>  |
| 8,21 - 8,50 | 117       | 33      | 84       | 8,0                        | 6    | xxxx <sup>1)</sup>  |
| 8,51 - 8,63 | 125       | 36      | 84       | 8,0                        | 6    | xxxx <sup>1)</sup>  |
| 8,64 - 8,95 | 125       | 36      | 84       | 9,0                        | 6    | xxxx <sup>1)</sup>  |
| 8,96        | 125       | 36      | 92       | 9,0                        | 6    | 08960               |
| 8,97        | 125       | 36      | 92       | 9,0                        | 6    | 08970               |
| 8,98        | 125       | 36      | 92       | 9,0                        | 6    | 08980               |
| 8,99        | 125       | 36      | 92       | 9,0                        | 6    | 08990               |
| 9,00        | 125       | 36      | 92       | 9,0                        | 6    | 09000               |
| 9,01        | 125       | 36      | 92       | 9,0                        | 6    | 09010               |
| 9,02        | 125       | 36      | 92       | 9,0                        | 6    | 09020               |
| 9,03 - 9,50 | 125       | 36      | 92       | 9,0                        | 6    | xxxx <sup>1)</sup>  |
| 9,51 - 9,63 | 133       | 38      | 92       | 9,0                        | 6    | xxxx <sup>1)</sup>  |
| 9,64 - 9,95 | 133       | 38      | 92       | 10,0                       | 6    | xxxx <sup>1)</sup>  |
| 9,96        | 133       | 38      | 101      | 10,0                       | 6    | 09960               |
| 9,97        | 133       | 38      | 101      | 10,0                       | 6    | 09970               |
| 9,98        | 133       | 38      | 101      | 10,0                       | 6    | 09980               |
| 9,99        | 133       | 38      | 101      | 10,0                       | 6    | 09990               |

40 140 ...

| DC<br>mm      | OAL<br>mm | L<br>mm | LU<br>mm | DCONMS <sub>н9</sub><br>mm | ZEFP |                    |
|---------------|-----------|---------|----------|----------------------------|------|--------------------|
| 10,00         | 133       | 38      | 101      | 10,0                       | 6    | 10000              |
| 10,01         | 133       | 38      | 101      | 10,0                       | 6    | 10010              |
| 10,02         | 133       | 38      | 101      | 10,0                       | 6    | 10020              |
| 10,03         | 133       | 38      | 101      | 10,0                       | 6    | 10030              |
| 10,04         | 133       | 38      | 101      | 10,0                       | 6    | 10040              |
| 10,05         | 133       | 38      | 101      | 10,0                       | 6    | 10050              |
| 10,06 - 10,09 | 133       | 38      | 101      | 10,0                       | 6    | xxxx <sup>1)</sup> |
| 10,10         | 133       | 38      | 101      | 10,0                       | 6    | 10100              |
| 10,11 - 10,19 | 133       | 38      | 101      | 10,0                       | 6    | xxxx <sup>1)</sup> |
| 10,20         | 133       | 38      | 101      | 10,0                       | 6    | 10200              |
| 10,21 - 10,69 | 133       | 38      | 101      | 10,0                       | 6    | xxxx <sup>1)</sup> |
| 10,70 - 11,20 | 142       | 41      | 101      | 10,0                       | 6    | xxxx <sup>1)</sup> |
| 11,21 - 11,80 | 142       | 41      | 101      | 10,0                       | 6    | xxxx <sup>1)</sup> |
| 11,81 - 11,95 | 151       | 44      | 110      | 10,0                       | 6    | xxxx <sup>1)</sup> |
| 11,96         | 151       | 44      | 110      | 10,0                       | 6    | 11960              |
| 11,97         | 151       | 44      | 110      | 10,0                       | 6    | 11970              |
| 11,98         | 151       | 44      | 110      | 10,0                       | 6    | 11980              |
| 11,99         | 151       | 44      | 110      | 10,0                       | 6    | 11990              |
| 12,00         | 151       | 44      | 110      | 10,0                       | 6    | 12000              |

|   |   |
|---|---|
| P | ● |
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| K | ● |
| N | ● |
| S | ○ |
| H |   |
| O | ● |

→ v<sub>c</sub> стр. 79

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 24 рабочих дня



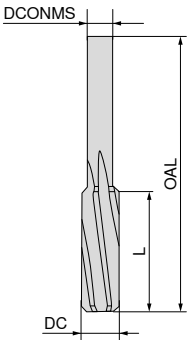
Данные развёртки изготавливаются с различными допусками.

Точные размеры см. в таблице на → стр. 80.

При заказе xxxx следует указывать требуемый диаметр (например, Ø 10,06 мм → арт. № 40 140 10060!)

Развёртка машинная, DIN 8089-B

AR



Левая спираль  
HSS-E  
Сквозное отверстие

| DC <sub>H7</sub><br>mm | OAL<br>mm | L<br>mm | DCNMS <sub>h8</sub><br>mm | ZEFP |     |
|------------------------|-----------|---------|---------------------------|------|-----|
| 4,0                    | 56        | 20      | 3,55                      | 6    | 040 |
| 4,5                    | 63        | 22      | 4,00                      | 6    | 045 |
| 5,0                    | 63        | 22      | 4,00                      | 6    | 050 |
| 5,5                    | 63        | 22      | 5,00                      | 6    | 055 |
| 6,0                    | 63        | 22      | 5,00                      | 6    | 060 |
| 6,5                    | 63        | 22      | 5,00                      | 6    | 065 |
| 7,0                    | 71        | 25      | 6,30                      | 6    | 070 |
| 8,0                    | 71        | 25      | 6,30                      | 6    | 080 |
| 9,0                    | 71        | 25      | 8,00                      | 6    | 090 |
| 10,0                   | 71        | 25      | 8,00                      | 6    | 100 |
| 11,0                   | 80        | 28      | 10,00                     | 6    | 110 |
| 12,0                   | 80        | 28      | 10,00                     | 6    | 120 |
| P                      |           |         |                           |      | ●   |
| M                      |           |         |                           |      | ○   |
| K                      |           |         |                           |      | ●   |
| N                      |           |         |                           |      | ●   |
| S                      |           |         |                           |      | ○   |
| H                      |           |         |                           |      |     |
| O                      |           |         |                           |      | ●   |

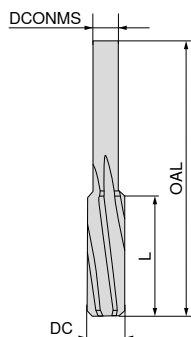
→ v<sub>c</sub> стр. 79

## Развёртка машинная, DIN 8089-B

▲ С шагом 0,01 мм

▲ Допуск: Ø 3,76 - 5,50 мм = +0,004 мм

▲ Допуск: Ø 5,51 - 12,00 мм = +0,005 мм

AR  
100

HSS-E

Левая спираль

40 139 ...

| DC<br>mm    | OAL<br>mm | L<br>mm | DCONMS <sub>h8</sub><br>mm | ZEFP |                     |
|-------------|-----------|---------|----------------------------|------|---------------------|
| 3,76 - 3,81 | 56        | 20      | 3,55                       | 6    | xxxxx <sup>1)</sup> |
| 3,82 - 3,94 | 56        | 20      | 3,55                       | 6    | xxxxx <sup>1)</sup> |
| 3,95        | 56        | 20      | 3,55                       | 6    | 03950               |
| 3,96        | 56        | 20      | 3,55                       | 6    | 03960               |
| 3,97        | 56        | 20      | 3,55                       | 6    | 03970               |
| 3,98        | 56        | 20      | 3,55                       | 6    | 03980               |
| 3,99        | 56        | 20      | 3,55                       | 6    | 03990               |
| 4,00        | 56        | 20      | 3,55                       | 6    | 04000               |
| 4,01        | 56        | 20      | 3,55                       | 6    | 04010               |
| 4,02        | 56        | 20      | 3,55                       | 6    | 04020               |
| 4,03 - 4,20 | 56        | 20      | 3,55                       | 6    | xxxxx <sup>1)</sup> |
| 4,21 - 4,25 | 56        | 20      | 3,55                       | 6    | xxxxx <sup>1)</sup> |
| 4,26 - 4,75 | 63        | 22      | 4,00                       | 6    | xxxxx <sup>1)</sup> |
| 4,76 - 4,94 | 63        | 22      | 4,00                       | 6    | xxxxx <sup>1)</sup> |
| 4,95        | 63        | 22      | 4,00                       | 6    | 04950               |
| 4,96        | 63        | 22      | 4,00                       | 6    | 04960               |
| 4,97        | 63        | 22      | 4,00                       | 6    | 04970               |
| 4,98        | 63        | 22      | 4,00                       | 6    | 04980               |
| 4,99        | 63        | 22      | 4,00                       | 6    | 04990               |
| 5,00        | 63        | 22      | 4,00                       | 6    | 05000               |
| 5,01        | 63        | 22      | 4,00                       | 6    | 05010               |
| 5,02        | 63        | 22      | 4,00                       | 6    | 05020               |
| 5,03        | 63        | 22      | 4,00                       | 6    | 05030               |
| 5,04        | 63        | 22      | 4,00                       | 6    | 05040               |
| 5,05        | 63        | 22      | 4,00                       | 6    | 05050               |
| 5,06 - 5,20 | 63        | 22      | 4,00                       | 6    | xxxxx <sup>1)</sup> |
| 5,21 - 5,30 | 63        | 22      | 4,00                       | 6    | xxxxx <sup>1)</sup> |
| 5,31 - 5,70 | 63        | 22      | 5,00                       | 6    | xxxxx <sup>1)</sup> |
| 5,71 - 5,94 | 63        | 22      | 5,00                       | 6    | xxxxx <sup>1)</sup> |
| 5,95        | 63        | 22      | 5,00                       | 6    | 05950               |
| 5,96        | 63        | 22      | 5,00                       | 6    | 05960               |
| 5,97        | 63        | 22      | 5,00                       | 6    | 05970               |
| 5,98        | 63        | 22      | 5,00                       | 6    | 05980               |
| 5,99        | 63        | 22      | 5,00                       | 6    | 05990               |
| 6,00        | 63        | 22      | 5,00                       | 6    | 06000               |
| 6,01        | 63        | 22      | 5,00                       | 6    | 06010               |
| 6,02        | 63        | 22      | 5,00                       | 6    | 06020               |
| 6,03 - 6,11 | 63        | 22      | 5,00                       | 6    | xxxxx <sup>1)</sup> |
| 6,12 - 6,70 | 63        | 22      | 5,00                       | 6    | xxxxx <sup>1)</sup> |
| 6,71 - 6,94 | 71        | 25      | 6,30                       | 6    | xxxxx <sup>1)</sup> |
| 6,95        | 71        | 25      | 6,30                       | 6    | 06950               |
| 6,96        | 71        | 25      | 6,30                       | 6    | 06960               |
| 6,97        | 71        | 25      | 6,30                       | 6    | 06970               |
| 6,98        | 71        | 25      | 6,30                       | 6    | 06980               |
| 6,99        | 71        | 25      | 6,30                       | 6    | 06990               |
| 7,00        | 71        | 25      | 6,30                       | 6    | 07000               |
| 7,01        | 71        | 25      | 6,30                       | 6    | 07010               |
| 7,02        | 71        | 25      | 6,30                       | 6    | 07020               |
| 7,03 - 7,25 | 71        | 25      | 6,30                       | 6    | xxxxx <sup>1)</sup> |
| 7,26 - 7,94 | 71        | 25      | 6,30                       | 6    | xxxxx <sup>1)</sup> |
| 7,95        | 71        | 25      | 6,30                       | 6    | 07950               |
| 7,96        | 71        | 25      | 6,30                       | 6    | 07960               |

40 139 ...

| DC<br>mm      | OAL<br>mm | L<br>mm | DCONMS <sub>h8</sub><br>mm | ZEFP |                     |
|---------------|-----------|---------|----------------------------|------|---------------------|
| 7,97          | 71        | 25      | 6,30                       | 6    | 07970               |
| 7,98          | 71        | 25      | 6,30                       | 6    | 07980               |
| 7,99          | 71        | 25      | 6,30                       | 6    | 07990               |
| 8,00          | 71        | 25      | 6,30                       | 6    | 08000               |
| 8,01          | 71        | 25      | 6,30                       | 6    | 08010               |
| 8,02          | 71        | 25      | 6,30                       | 6    | 08020               |
| 8,03          | 71        | 25      | 6,30                       | 6    | 08030               |
| 8,04          | 71        | 25      | 6,30                       | 6    | 08040               |
| 8,05 - 8,20   | 71        | 25      | 6,30                       | 6    | xxxxx <sup>1)</sup> |
| 8,21 - 8,50   | 71        | 25      | 6,30                       | 6    | xxxxx <sup>1)</sup> |
| 8,51 - 8,94   | 71        | 25      | 8,00                       | 6    | xxxxx <sup>1)</sup> |
| 8,95          | 71        | 25      | 8,00                       | 6    | 08950               |
| 8,96          | 71        | 25      | 8,00                       | 6    | 08960               |
| 8,97          | 71        | 25      | 8,00                       | 6    | 08970               |
| 8,98          | 71        | 25      | 8,00                       | 6    | 08980               |
| 8,99          | 71        | 25      | 8,00                       | 6    | 08990               |
| 9,00          | 71        | 25      | 8,00                       | 6    | 09000               |
| 9,01          | 71        | 25      | 8,00                       | 6    | 09010 <sup>1)</sup> |
| 9,02          | 71        | 25      | 8,00                       | 6    | 09020               |
| 9,03 - 9,25   | 71        | 25      | 8,00                       | 6    | xxxxx <sup>1)</sup> |
| 9,26 - 9,94   | 71        | 25      | 8,00                       | 6    | xxxxx <sup>1)</sup> |
| 9,95          | 71        | 25      | 8,00                       | 6    | 09950               |
| 9,96          | 71        | 25      | 8,00                       | 6    | 09960               |
| 9,97          | 71        | 25      | 8,00                       | 6    | 09970               |
| 9,98          | 71        | 25      | 8,00                       | 6    | 09980               |
| 9,99          | 71        | 25      | 8,00                       | 6    | 09990               |
| 10,00         | 71        | 25      | 8,00                       | 6    | 10000               |
| 10,01         | 71        | 25      | 8,00                       | 6    | 10010               |
| 10,02         | 71        | 25      | 8,00                       | 6    | 10020               |
| 10,03 - 10,20 | 71        | 25      | 8,00                       | 6    | xxxxx <sup>1)</sup> |
| 10,21 - 10,60 | 71        | 25      | 8,00                       | 6    | xxxxx <sup>1)</sup> |
| 10,61 - 11,20 | 80        | 28      | 10,00                      | 6    | xxxxx <sup>1)</sup> |
| 11,21 - 11,25 | 80        | 28      | 10,00                      | 6    | xxxxx <sup>1)</sup> |
| 11,26 - 11,94 | 80        | 28      | 10,00                      | 6    | xxxxx <sup>1)</sup> |
| 11,95         | 80        | 28      | 10,00                      | 6    | 11950               |
| 11,96         | 80        | 28      | 10,00                      | 6    | 11960               |
| 11,97         | 80        | 28      | 10,00                      | 6    | 11970               |
| 11,98         | 80        | 28      | 10,00                      | 6    | 11980               |
| 11,99         | 80        | 28      | 10,00                      | 6    | 11990               |
| 12,00         | 80        | 28      | 10,00                      | 6    | 12000               |

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| K | ● |
| N | ● |
| S | ○ |
| H | ● |
| O | ● |

→ v<sub>c</sub> стр. 79

1) Изготавливается по запросу. Обмену и возврату не подлежит / Срок поставки: 24 рабочих дня



Данные развёртки изготавливаются с различными допусками.

Точные размеры см. в таблице на → стр. 80.

При заказе xxxx следует указывать требуемый диаметр (например, Ø 10,06 мм → арт. № 40 139 10060)!

**По вопросам продаж и поддержки обращайтесь:**

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