



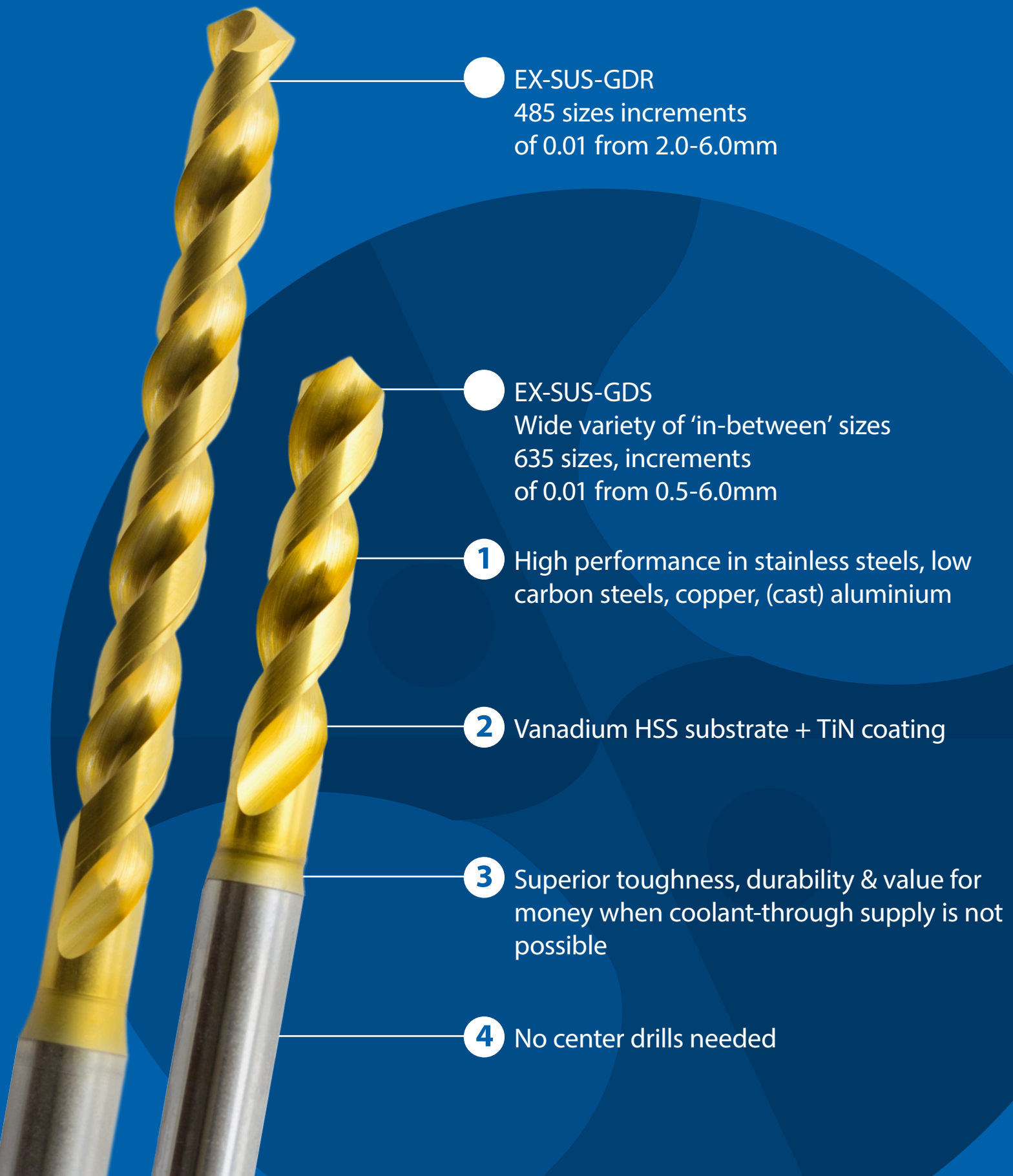
TiN-coated HSSE precision drills

# EX-(SUS) SERIES

Volume 3



# KEY FEATURES: EX-SUS SERIES



● EX-SUS-GDR  
485 sizes increments  
of 0.01 from 2.0-6.0mm

● EX-SUS-GDS  
Wide variety of 'in-between' sizes  
635 sizes, increments  
of 0.01 from 0.5-6.0mm

① High performance in stainless steels, low  
carbon steels, copper, (cast) aluminium

② Vanadium HSS substrate + TiN coating

③ Superior toughness, durability & value for  
money when coolant-through supply is not  
possible

④ No center drills needed

# RECOMMENDED WORK MATERIALS

The EX-SUS-GDS & EX-SUS-GDR drill line is famous worldwide for its incredible performance in gummy materials like stainless steel. Its high helix and refined X-thinning point geometry yield incredible sharpness which make it the ideal solution for processing soft materials. Available in stub and jobber lengths and in diameter increments of every 0.01 mm.

- No center drills needed. Achieves high accuracy high shearing forces ideal in gummy materials.
- Added heat resistance via 3% Vanadium content yields superior performance to standard High Speed Steel drills.
- Increased hardness and lubricity increases wear resistance thereby extending tool life.
- Over 1.100 sizes available from stock, with diameter tolerances that can replace reaming operations

## Applications

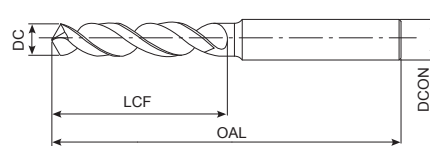
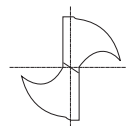
- Aluminum Alloy, Cast Aluminum, Low Carbon Steel, **Stainless Steel**.
- In applications where internal coolant supply is not possible the EX-SUS drill is the absolute most cost-effective solution for Stainless Steel.
- Any drilling application where you cannot locate an “in-between” diameter size in anyone else’s drill offering.

|                     | EX-SUS-GDS/GDR<br> | EX-GDS<br> | EX-GDR<br> |
|---------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Low carbon steel    | ⊙                                                                                                     | ○                                                                                              | ○                                                                                               |
| Medium carbon steel | ○                                                                                                     | ⊙                                                                                              | ⊙                                                                                               |
| High carbon steel   |                                                                                                       | ⊙                                                                                              | ⊙                                                                                               |
| Alloys steels       |                                                                                                       | ⊙                                                                                              | ⊙                                                                                               |
| ~35 HRC             |                                                                                                       | ⊙                                                                                              | ○                                                                                               |
| 35~45 HRC           |                                                                                                       | ⊙ / ○*                                                                                         |                                                                                                 |
| 45~50 HRC           |                                                                                                       |                                                                                                |                                                                                                 |
| 50~70 HRC           |                                                                                                       |                                                                                                |                                                                                                 |
| Stainless           | ⊙                                                                                                     |                                                                                                |                                                                                                 |
| Tool steel          |                                                                                                       | ⊙ / ○*                                                                                         | ⊙                                                                                               |
| Cast iron           |                                                                                                       | ⊙                                                                                              | ⊙                                                                                               |
| Ductile cast iron   |                                                                                                       | ○                                                                                              | ○                                                                                               |
| Copper              | ⊙                                                                                                     |                                                                                                |                                                                                                 |
| Aluminium           | ⊙                                                                                                     |                                                                                                | ○                                                                                               |
| Alu alloy casting   | ○                                                                                                     | ○                                                                                              | ○                                                                                               |
| Titanium alloy      |                                                                                                       |                                                                                                |                                                                                                 |
| Inconel             |                                                                                                       | ○                                                                                              |                                                                                                 |
| Magnesium alloy     |                                                                                                       | ○                                                                                              | ○                                                                                               |

⊙ Recommended ○ Good \* Drilling depth 3D~4D

# EX-SUS-GDS

Drilling | HSS | 3xD



- First choice in quality and performance
- HSSE drill with TiN coating
- Up to 3xD
- For stainless steel, low carbon steel and cast aluminium
- 635 sizes - from Ø 0,5 - 6 mm in 0,01 mm increments



| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 61505   | 0,5  | 3   | 38  | 3    |
| 8595051 | 0,51 | 3   | 38  | 3    |
| 8595052 | 0,52 | 3   | 38  | 3    |
| 8595053 | 0,53 | 3   | 38  | 3    |
| 8595054 | 0,54 | 3,5 | 38  | 3    |
| 8595055 | 0,55 | 3,5 | 38  | 3    |
| 8595056 | 0,56 | 3,5 | 38  | 3    |
| 8595057 | 0,57 | 3,5 | 38  | 3    |
| 8595058 | 0,58 | 3,5 | 38  | 3    |
| 8595059 | 0,59 | 3,5 | 38  | 3    |
| 61506   | 0,6  | 3,5 | 38  | 3    |
| 8595061 | 0,61 | 4   | 38  | 3    |
| 8595062 | 0,62 | 4   | 38  | 3    |
| 8595063 | 0,63 | 4   | 38  | 3    |
| 8595064 | 0,64 | 4   | 38  | 3    |
| 8595065 | 0,65 | 4   | 38  | 3    |
| 8595066 | 0,66 | 4   | 38  | 3    |
| 8595067 | 0,67 | 4   | 38  | 3    |
| 8595068 | 0,68 | 4,5 | 38  | 3    |
| 8595069 | 0,69 | 4,5 | 38  | 3    |
| 61507   | 0,7  | 4,5 | 38  | 3    |
| 8595071 | 0,71 | 4,5 | 38  | 3    |
| 8595072 | 0,72 | 4,5 | 38  | 3    |
| 8595073 | 0,73 | 4,5 | 38  | 3    |
| 8595074 | 0,74 | 4,5 | 38  | 3    |
| 8595075 | 0,75 | 4,5 | 38  | 3    |
| 8595076 | 0,76 | 5   | 38  | 3    |
| 8595077 | 0,77 | 5   | 38  | 3    |
| 8595078 | 0,78 | 5   | 38  | 3    |
| 8595079 | 0,79 | 5   | 38  | 3    |
| 61508   | 0,8  | 5   | 38  | 3    |
| 8595081 | 0,81 | 5   | 38  | 3    |
| 8595082 | 0,82 | 5   | 38  | 3    |
| 8595083 | 0,83 | 5   | 38  | 3    |
| 8595084 | 0,84 | 5   | 38  | 3    |
| 8595085 | 0,85 | 5   | 38  | 3    |
| 8595086 | 0,86 | 5,5 | 38  | 3    |
| 8595087 | 0,87 | 5,5 | 38  | 3    |
| 8595088 | 0,88 | 5,5 | 38  | 3    |
| 8595089 | 0,89 | 5,5 | 38  | 3    |
| 61509   | 0,9  | 5,5 | 38  | 3    |
| 8595091 | 0,91 | 5,5 | 38  | 3    |
| 8595092 | 0,92 | 5,5 | 38  | 3    |
| 8595093 | 0,93 | 5,5 | 38  | 3    |
| 8595094 | 0,94 | 5,5 | 38  | 3    |
| 8595095 | 0,95 | 6   | 38  | 3    |

| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595096 | 0,96 | 6   | 38  | 3    |
| 8595097 | 0,97 | 6   | 38  | 3    |
| 8595098 | 0,98 | 6   | 38  | 3    |
| 8595099 | 0,99 | 6   | 38  | 3    |
| 61510   | 1    | 6   | 38  | 3    |
| 8595101 | 1,01 | 6   | 38  | 3    |
| 8595102 | 1,02 | 6   | 38  | 3    |
| 8595103 | 1,03 | 6   | 38  | 3    |
| 8595104 | 1,04 | 6   | 38  | 3    |
| 8595105 | 1,05 | 6   | 38  | 3    |
| 8595106 | 1,06 | 6   | 38  | 3    |
| 8595107 | 1,07 | 7   | 39  | 3    |
| 8595108 | 1,08 | 7   | 39  | 3    |
| 8595109 | 1,09 | 7   | 39  | 3    |
| 61511   | 1,1  | 7   | 39  | 3    |
| 8595111 | 1,11 | 7   | 39  | 3    |
| 8595112 | 1,12 | 7   | 39  | 3    |
| 8595113 | 1,13 | 7   | 39  | 3    |
| 8595114 | 1,14 | 7   | 39  | 3    |
| 8595115 | 1,15 | 7   | 39  | 3    |
| 8595116 | 1,16 | 7   | 39  | 3    |
| 8595117 | 1,17 | 7   | 39  | 3    |
| 8595118 | 1,18 | 7   | 39  | 3    |
| 8595119 | 1,19 | 8   | 40  | 3    |
| 61512   | 1,2  | 8   | 40  | 3    |
| 8595121 | 1,21 | 8   | 40  | 3    |
| 8595122 | 1,22 | 8   | 40  | 3    |
| 8595123 | 1,23 | 8   | 40  | 3    |
| 8595124 | 1,24 | 8   | 40  | 3    |
| 8595125 | 1,25 | 8   | 40  | 3    |
| 8595126 | 1,26 | 8   | 40  | 3    |
| 8595127 | 1,27 | 8   | 40  | 3    |
| 8595128 | 1,28 | 8   | 40  | 3    |
| 8595129 | 1,29 | 8   | 40  | 3    |
| 61513   | 1,3  | 8   | 40  | 3    |
| 8595131 | 1,31 | 8   | 40  | 3    |
| 8595132 | 1,32 | 8   | 40  | 3    |
| 8595133 | 1,33 | 8   | 41  | 3    |
| 8595134 | 1,34 | 8   | 41  | 3    |
| 8595135 | 1,35 | 8   | 41  | 3    |
| 8595136 | 1,36 | 8   | 41  | 3    |
| 8595137 | 1,37 | 9   | 41  | 3    |
| 8595138 | 1,38 | 9   | 41  | 3    |
| 8595139 | 1,39 | 9   | 41  | 3    |
| 61514   | 1,4  | 9   | 41  | 3    |
| 8595141 | 1,41 | 9   | 41  | 3    |

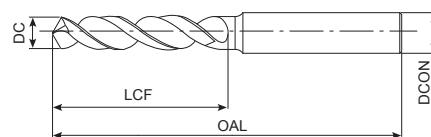
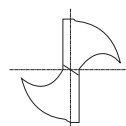
Drilling | HSS

3xD



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- First choice in quality and performance
- HSSE drill with TiN coating
- Up to 3xD
- For stainless steel, low carbon steel and cast aluminium
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| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595142 | 1,42 | 9   | 41  | 3    |
| 8595143 | 1,43 | 9   | 41  | 3    |
| 8595144 | 1,44 | 9   | 41  | 3    |
| 8595145 | 1,45 | 9   | 41  | 3    |
| 8595146 | 1,46 | 9   | 41  | 3    |
| 8595147 | 1,47 | 9   | 41  | 3    |
| 8595148 | 1,48 | 9   | 41  | 3    |
| 8595149 | 1,49 | 9   | 41  | 3    |
| 61515   | 1,5  | 9   | 41  | 3    |
| 8595151 | 1,51 | 10  | 42  | 3    |
| 8595152 | 1,52 | 10  | 42  | 3    |
| 8595153 | 1,53 | 10  | 42  | 3    |
| 8595154 | 1,54 | 10  | 42  | 3    |
| 8595155 | 1,55 | 10  | 42  | 3    |
| 8595156 | 1,56 | 10  | 42  | 3    |
| 8595157 | 1,57 | 10  | 42  | 3    |
| 8595158 | 1,58 | 10  | 42  | 3    |
| 8595159 | 1,59 | 10  | 42  | 3    |
| 61516   | 1,6  | 10  | 42  | 3    |
| 8595161 | 1,61 | 10  | 42  | 3    |
| 8595162 | 1,62 | 10  | 42  | 3    |
| 8595163 | 1,63 | 10  | 42  | 3    |
| 8595164 | 1,64 | 10  | 42  | 3    |
| 8595165 | 1,65 | 10  | 42  | 3    |
| 8595166 | 1,66 | 10  | 42  | 3    |
| 8595167 | 1,67 | 10  | 42  | 3    |
| 8595168 | 1,68 | 10  | 42  | 3    |
| 8595169 | 1,69 | 10  | 42  | 3    |
| 61517   | 1,7  | 10  | 42  | 3    |
| 8595171 | 1,71 | 11  | 43  | 3    |
| 8595172 | 1,72 | 11  | 43  | 3    |
| 8595173 | 1,73 | 11  | 43  | 3    |
| 8595174 | 1,74 | 11  | 43  | 3    |
| 8595175 | 1,75 | 11  | 43  | 3    |
| 8595176 | 1,76 | 11  | 43  | 3    |
| 8595177 | 1,77 | 11  | 43  | 3    |
| 8595178 | 1,78 | 11  | 43  | 3    |
| 8595179 | 1,79 | 11  | 43  | 3    |
| 61518   | 1,8  | 11  | 43  | 3    |
| 8595181 | 1,81 | 11  | 43  | 3    |
| 8595182 | 1,82 | 11  | 43  | 3    |
| 8595183 | 1,83 | 11  | 43  | 3    |
| 8595184 | 1,84 | 11  | 43  | 3    |
| 8595185 | 1,85 | 11  | 43  | 3    |
| 8595186 | 1,86 | 11  | 43  | 3    |
| 8595187 | 1,87 | 11  | 43  | 3    |

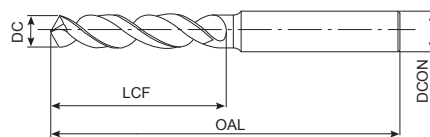
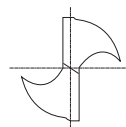
| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595188 | 1,88 | 11  | 43  | 3    |
| 8595189 | 1,89 | 11  | 43  | 3    |
| 61519   | 1,9  | 11  | 43  | 3    |
| 8595191 | 1,91 | 12  | 44  | 3    |
| 8595192 | 1,92 | 12  | 44  | 3    |
| 8595193 | 1,93 | 12  | 44  | 3    |
| 8595194 | 1,94 | 12  | 44  | 3    |
| 8595195 | 1,95 | 12  | 44  | 3    |
| 8595196 | 1,96 | 12  | 44  | 3    |
| 8595197 | 1,97 | 12  | 44  | 3    |
| 8595198 | 1,98 | 12  | 44  | 3    |
| 8595199 | 1,99 | 12  | 44  | 3    |
| 61520   | 2    | 12  | 44  | 3    |
| 8595201 | 2,01 | 12  | 44  | 3    |
| 8595202 | 2,02 | 12  | 44  | 3    |
| 8595203 | 2,03 | 12  | 44  | 3    |
| 8595204 | 2,04 | 12  | 44  | 3    |
| 8595205 | 2,05 | 12  | 44  | 3    |
| 8595206 | 2,06 | 12  | 44  | 3    |
| 8595207 | 2,07 | 12  | 44  | 3    |
| 8595208 | 2,08 | 12  | 44  | 3    |
| 8595209 | 2,09 | 12  | 44  | 3    |
| 61521   | 2,1  | 12  | 44  | 3    |
| 8595211 | 2,11 | 12  | 44  | 3    |
| 8595212 | 2,12 | 12  | 44  | 3    |
| 8595213 | 2,13 | 13  | 45  | 3    |
| 8595214 | 2,14 | 13  | 45  | 3    |
| 8595215 | 2,15 | 13  | 45  | 3    |
| 8595216 | 2,16 | 13  | 45  | 3    |
| 8595217 | 2,17 | 13  | 45  | 3    |
| 8595218 | 2,18 | 13  | 45  | 3    |
| 8595219 | 2,19 | 13  | 45  | 3    |
| 61522   | 2,2  | 13  | 45  | 3    |
| 8595221 | 2,21 | 13  | 45  | 3    |
| 8595222 | 2,22 | 13  | 45  | 3    |
| 8595223 | 2,23 | 13  | 45  | 3    |
| 8595224 | 2,24 | 13  | 45  | 3    |
| 8595225 | 2,25 | 13  | 45  | 3    |
| 8595226 | 2,26 | 13  | 45  | 3    |
| 8595227 | 2,27 | 13  | 45  | 3    |
| 8595228 | 2,28 | 13  | 45  | 3    |
| 8595229 | 2,29 | 13  | 45  | 3    |
| 61523   | 2,3  | 13  | 45  | 3    |
| 8595231 | 2,31 | 13  | 45  | 3    |
| 8595232 | 2,32 | 13  | 45  | 3    |
| 8595233 | 2,33 | 13  | 45  | 3    |

Drilling | HSS

3xD

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| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595234 | 2,34 | 13  | 45  | 3    |
| 8595235 | 2,35 | 13  | 45  | 3    |
| 8595236 | 2,36 | 13  | 45  | 3    |
| 8595237 | 2,37 | 14  | 46  | 3    |
| 8595238 | 2,38 | 14  | 46  | 3    |
| 8595239 | 2,39 | 14  | 46  | 3    |
| 61524   | 2,4  | 14  | 46  | 3    |
| 8595241 | 2,41 | 14  | 46  | 3    |
| 8595242 | 2,42 | 14  | 46  | 3    |
| 8595243 | 2,43 | 14  | 46  | 3    |
| 8595244 | 2,44 | 14  | 46  | 3    |
| 8595245 | 2,45 | 14  | 46  | 3    |
| 8595246 | 2,46 | 14  | 46  | 3    |
| 8595247 | 2,47 | 14  | 46  | 3    |
| 8595248 | 2,48 | 14  | 46  | 3    |
| 8595249 | 2,49 | 14  | 46  | 3    |
| 61525   | 2,5  | 14  | 46  | 3    |
| 8595251 | 2,51 | 14  | 46  | 3    |
| 8595252 | 2,52 | 14  | 46  | 3    |
| 8595253 | 2,53 | 14  | 46  | 3    |
| 8595254 | 2,54 | 14  | 46  | 3    |
| 8595255 | 2,55 | 14  | 46  | 3    |
| 8595256 | 2,56 | 14  | 46  | 3    |
| 8595257 | 2,57 | 14  | 46  | 3    |
| 8595258 | 2,58 | 14  | 46  | 3    |
| 8595259 | 2,59 | 14  | 46  | 3    |
| 61526   | 2,6  | 14  | 46  | 3    |
| 8595261 | 2,61 | 14  | 46  | 3    |
| 8595262 | 2,62 | 14  | 46  | 3    |
| 8595263 | 2,63 | 14  | 46  | 3    |
| 8595264 | 2,64 | 14  | 46  | 3    |
| 8595265 | 2,65 | 14  | 46  | 3    |
| 8595266 | 2,66 | 16  | 48  | 3    |
| 8595267 | 2,67 | 16  | 48  | 3    |
| 8595268 | 2,68 | 16  | 48  | 3    |
| 8595269 | 2,69 | 16  | 48  | 3    |
| 61527   | 2,7  | 16  | 48  | 3    |
| 8595271 | 2,71 | 16  | 48  | 3    |
| 8595272 | 2,72 | 16  | 48  | 3    |
| 8595273 | 2,73 | 16  | 48  | 3    |
| 8595274 | 2,74 | 16  | 48  | 3    |
| 8595275 | 2,75 | 16  | 48  | 3    |
| 8595276 | 2,76 | 16  | 48  | 3    |
| 8595277 | 2,77 | 16  | 48  | 3    |
| 8595278 | 2,78 | 16  | 48  | 3    |
| 8595279 | 2,79 | 16  | 48  | 3    |

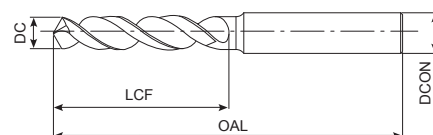
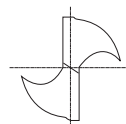
| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 61528   | 2,8  | 16  | 48  | 3    |
| 8595281 | 2,81 | 16  | 48  | 3    |
| 8595282 | 2,82 | 16  | 48  | 3    |
| 8595283 | 2,83 | 16  | 48  | 3    |
| 8595284 | 2,84 | 16  | 48  | 3    |
| 8595285 | 2,85 | 16  | 48  | 3    |
| 8595286 | 2,86 | 16  | 48  | 3    |
| 8595287 | 2,87 | 16  | 48  | 3    |
| 8595288 | 2,88 | 16  | 48  | 3    |
| 8595289 | 2,89 | 16  | 48  | 3    |
| 61529   | 2,9  | 16  | 48  | 3    |
| 8595291 | 2,91 | 16  | 48  | 3    |
| 8595292 | 2,92 | 16  | 48  | 3    |
| 8595293 | 2,93 | 16  | 48  | 3    |
| 8595294 | 2,94 | 16  | 48  | 3    |
| 8595295 | 2,95 | 16  | 48  | 3    |
| 8595296 | 2,96 | 16  | 48  | 3    |
| 8595297 | 2,97 | 16  | 48  | 3    |
| 8595298 | 2,98 | 16  | 48  | 3    |
| 8595299 | 2,99 | 16  | 48  | 3    |
| 61530   | 3    | 16  | 48  | 3    |
| 8595301 | 3,01 | 18  | 50  | 4    |
| 8595302 | 3,02 | 18  | 50  | 4    |
| 8595303 | 3,03 | 18  | 50  | 4    |
| 8595304 | 3,04 | 18  | 50  | 4    |
| 8595305 | 3,05 | 18  | 50  | 4    |
| 8595306 | 3,06 | 18  | 50  | 4    |
| 8595307 | 3,07 | 18  | 50  | 4    |
| 8595308 | 3,08 | 18  | 50  | 4    |
| 8595309 | 3,09 | 18  | 50  | 4    |
| 61531   | 3,1  | 18  | 50  | 4    |
| 8595311 | 3,11 | 18  | 50  | 4    |
| 8595312 | 3,12 | 18  | 50  | 4    |
| 8595313 | 3,13 | 18  | 50  | 4    |
| 8595314 | 3,14 | 18  | 50  | 4    |
| 8595315 | 3,15 | 18  | 50  | 4    |
| 8595316 | 3,16 | 18  | 50  | 4    |
| 8595317 | 3,17 | 18  | 50  | 4    |
| 8595318 | 3,18 | 18  | 50  | 4    |
| 8595319 | 3,19 | 18  | 50  | 4    |
| 61532   | 3,2  | 18  | 50  | 4    |
| 8595321 | 3,21 | 18  | 50  | 4    |
| 8595322 | 3,22 | 18  | 50  | 4    |
| 8595323 | 3,23 | 18  | 50  | 4    |
| 8595324 | 3,24 | 18  | 50  | 4    |
| 8595325 | 3,25 | 18  | 50  | 4    |

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| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595326 | 3,26 | 18  | 50  | 4    |
| 8595327 | 3,27 | 18  | 50  | 4    |
| 8595328 | 3,28 | 18  | 50  | 4    |
| 8595329 | 3,29 | 18  | 50  | 4    |
| 61533   | 3,3  | 18  | 50  | 4    |
| 8595331 | 3,31 | 18  | 50  | 4    |
| 8595332 | 3,32 | 18  | 50  | 4    |
| 8595333 | 3,33 | 18  | 50  | 4    |
| 8595334 | 3,34 | 18  | 50  | 4    |
| 8595335 | 3,35 | 18  | 50  | 4    |
| 8595336 | 3,36 | 20  | 52  | 4    |
| 8595337 | 3,37 | 20  | 52  | 4    |
| 8595338 | 3,38 | 20  | 52  | 4    |
| 8595339 | 3,39 | 20  | 52  | 4    |
| 61534   | 3,4  | 20  | 52  | 4    |
| 8595341 | 3,41 | 20  | 52  | 4    |
| 8595342 | 3,42 | 20  | 52  | 4    |
| 8595343 | 3,43 | 20  | 52  | 4    |
| 8595344 | 3,44 | 20  | 52  | 4    |
| 8595345 | 3,45 | 20  | 52  | 4    |
| 8595346 | 3,46 | 20  | 52  | 4    |
| 8595347 | 3,47 | 20  | 52  | 4    |
| 8595348 | 3,48 | 20  | 52  | 4    |
| 8595349 | 3,49 | 20  | 52  | 4    |
| 61535   | 3,5  | 20  | 52  | 4    |
| 8595351 | 3,51 | 20  | 52  | 4    |
| 8595352 | 3,52 | 20  | 52  | 4    |
| 8595353 | 3,53 | 20  | 52  | 4    |
| 8595354 | 3,54 | 20  | 52  | 4    |
| 8595355 | 3,55 | 20  | 52  | 4    |
| 8595356 | 3,56 | 20  | 52  | 4    |
| 8595357 | 3,57 | 20  | 52  | 4    |
| 8595358 | 3,58 | 20  | 52  | 4    |
| 8595359 | 3,59 | 20  | 52  | 4    |
| 61536   | 3,6  | 20  | 52  | 4    |
| 8595361 | 3,61 | 20  | 52  | 4    |
| 8595362 | 3,62 | 20  | 52  | 4    |
| 8595363 | 3,63 | 20  | 52  | 4    |
| 8595364 | 3,64 | 20  | 52  | 4    |
| 8595365 | 3,65 | 20  | 52  | 4    |
| 8595366 | 3,66 | 20  | 52  | 4    |
| 8595367 | 3,67 | 20  | 52  | 4    |
| 8595368 | 3,68 | 20  | 52  | 4    |
| 8595369 | 3,69 | 20  | 52  | 4    |
| 61537   | 3,7  | 20  | 52  | 4    |
| 8595371 | 3,71 | 20  | 52  | 4    |

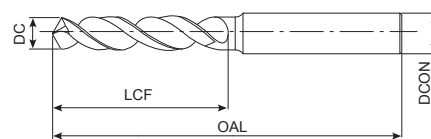
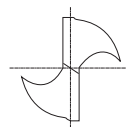
| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595372 | 3,72 | 20  | 52  | 4    |
| 8595373 | 3,73 | 20  | 52  | 4    |
| 8595374 | 3,74 | 20  | 52  | 4    |
| 8595375 | 3,75 | 20  | 52  | 4    |
| 8595376 | 3,76 | 22  | 54  | 4    |
| 8595377 | 3,77 | 22  | 54  | 4    |
| 8595378 | 3,78 | 22  | 54  | 4    |
| 8595379 | 3,79 | 22  | 54  | 4    |
| 61538   | 3,8  | 22  | 54  | 4    |
| 8595381 | 3,81 | 22  | 54  | 4    |
| 8595382 | 3,82 | 22  | 54  | 4    |
| 8595383 | 3,83 | 22  | 54  | 4    |
| 8595384 | 3,84 | 22  | 54  | 4    |
| 8595385 | 3,85 | 22  | 54  | 4    |
| 8595386 | 3,86 | 22  | 54  | 4    |
| 8595387 | 3,87 | 22  | 54  | 4    |
| 8595388 | 3,88 | 22  | 54  | 4    |
| 8595389 | 3,89 | 22  | 54  | 4    |
| 61539   | 3,9  | 22  | 54  | 4    |
| 8595391 | 3,91 | 22  | 54  | 4    |
| 8595392 | 3,92 | 22  | 54  | 4    |
| 8595393 | 3,93 | 22  | 54  | 4    |
| 8595394 | 3,94 | 22  | 54  | 4    |
| 8595395 | 3,95 | 22  | 54  | 4    |
| 8595396 | 3,96 | 22  | 54  | 4    |
| 8595397 | 3,97 | 22  | 54  | 4    |
| 8595398 | 3,98 | 22  | 54  | 4    |
| 8595399 | 3,99 | 22  | 54  | 4    |
| 61540   | 4    | 22  | 54  | 4    |
| 8595401 | 4,01 | 22  | 66  | 6    |
| 8595402 | 4,02 | 22  | 66  | 6    |
| 8595403 | 4,03 | 22  | 66  | 6    |
| 8595404 | 4,04 | 22  | 66  | 6    |
| 8595405 | 4,05 | 22  | 66  | 6    |
| 8595406 | 4,06 | 22  | 66  | 6    |
| 8595407 | 4,07 | 22  | 66  | 6    |
| 8595408 | 4,08 | 22  | 66  | 6    |
| 8595409 | 4,09 | 22  | 66  | 6    |
| 61541   | 4,1  | 22  | 66  | 6    |
| 8595411 | 4,11 | 22  | 66  | 6    |
| 8595412 | 4,12 | 22  | 66  | 6    |
| 8595413 | 4,13 | 22  | 66  | 6    |
| 8595414 | 4,14 | 22  | 66  | 6    |
| 8595415 | 4,15 | 22  | 66  | 6    |
| 8595416 | 4,16 | 22  | 66  | 6    |
| 8595417 | 4,17 | 22  | 66  | 6    |

Drilling | HSS

3xD

# EX-SUS-GDS

Drilling | HSS | 3xD



- First choice in quality and performance
- HSSE drill with TiN coating
- Up to 3xD
- For stainless steel, low carbon steel and cast aluminium
- 635 sizes - from Ø 0,5 - 6 mm in 0,01 mm increments



| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595418 | 4,18 | 22  | 66  | 6    |
| 8595419 | 4,19 | 22  | 66  | 6    |
| 61542   | 4,2  | 22  | 66  | 6    |
| 8595421 | 4,21 | 22  | 66  | 6    |
| 8595422 | 4,22 | 22  | 66  | 6    |
| 8595423 | 4,23 | 22  | 66  | 6    |
| 8595424 | 4,24 | 22  | 66  | 6    |
| 8595425 | 4,25 | 22  | 66  | 6    |
| 8595426 | 4,26 | 24  | 68  | 6    |
| 8595427 | 4,27 | 24  | 68  | 6    |
| 8595428 | 4,28 | 24  | 68  | 6    |
| 8595429 | 4,29 | 24  | 68  | 6    |
| 61543   | 4,3  | 24  | 68  | 6    |
| 8595431 | 4,31 | 24  | 68  | 6    |
| 8595432 | 4,32 | 24  | 68  | 6    |
| 8595433 | 4,33 | 24  | 68  | 6    |
| 8595434 | 4,34 | 24  | 68  | 6    |
| 8595435 | 4,35 | 24  | 68  | 6    |
| 8595436 | 4,36 | 24  | 68  | 6    |
| 8595437 | 4,37 | 24  | 68  | 6    |
| 8595438 | 4,38 | 24  | 68  | 6    |
| 8595439 | 4,39 | 24  | 68  | 6    |
| 61544   | 4,4  | 24  | 68  | 6    |
| 8595441 | 4,41 | 24  | 68  | 6    |
| 8595442 | 4,42 | 24  | 68  | 6    |
| 8595443 | 4,43 | 24  | 68  | 6    |
| 8595444 | 4,44 | 24  | 68  | 6    |
| 8595445 | 4,45 | 24  | 68  | 6    |
| 8595446 | 4,46 | 24  | 68  | 6    |
| 8595447 | 4,47 | 24  | 68  | 6    |
| 8595448 | 4,48 | 24  | 68  | 6    |
| 8595449 | 4,49 | 24  | 68  | 6    |
| 61545   | 4,5  | 24  | 68  | 6    |
| 8595451 | 4,51 | 24  | 68  | 6    |
| 8595452 | 4,52 | 24  | 68  | 6    |
| 8595453 | 4,53 | 24  | 68  | 6    |
| 8595454 | 4,54 | 24  | 68  | 6    |
| 8595455 | 4,55 | 24  | 68  | 6    |
| 8595456 | 4,56 | 24  | 68  | 6    |
| 8595457 | 4,57 | 24  | 68  | 6    |
| 8595458 | 4,58 | 24  | 68  | 6    |
| 8595459 | 4,59 | 24  | 68  | 6    |
| 61546   | 4,6  | 24  | 68  | 6    |
| 8595461 | 4,61 | 24  | 68  | 6    |
| 8595462 | 4,62 | 24  | 68  | 6    |
| 8595463 | 4,63 | 24  | 68  | 6    |

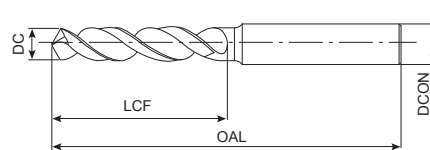
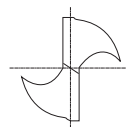
| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595464 | 4,64 | 24  | 68  | 6    |
| 8595465 | 4,65 | 24  | 68  | 6    |
| 8595466 | 4,66 | 24  | 68  | 6    |
| 8595467 | 4,67 | 24  | 68  | 6    |
| 8595468 | 4,68 | 24  | 68  | 6    |
| 8595469 | 4,69 | 24  | 68  | 6    |
| 61547   | 4,7  | 24  | 68  | 6    |
| 8595471 | 4,71 | 24  | 68  | 6    |
| 8595472 | 4,72 | 24  | 68  | 6    |
| 8595473 | 4,73 | 24  | 68  | 6    |
| 8595474 | 4,74 | 24  | 68  | 6    |
| 8595475 | 4,75 | 24  | 68  | 6    |
| 8595476 | 4,76 | 26  | 70  | 6    |
| 8595477 | 4,77 | 26  | 70  | 6    |
| 8595478 | 4,78 | 26  | 70  | 6    |
| 8595479 | 4,79 | 26  | 70  | 6    |
| 61548   | 4,8  | 26  | 70  | 6    |
| 8595481 | 4,81 | 26  | 70  | 6    |
| 8595482 | 4,82 | 26  | 70  | 6    |
| 8595483 | 4,83 | 26  | 70  | 6    |
| 8595484 | 4,84 | 26  | 70  | 6    |
| 8595485 | 4,85 | 26  | 70  | 6    |
| 8595486 | 4,86 | 26  | 70  | 6    |
| 8595487 | 4,87 | 26  | 70  | 6    |
| 8595488 | 4,88 | 26  | 70  | 6    |
| 8595489 | 4,89 | 26  | 70  | 6    |
| 61549   | 4,9  | 26  | 70  | 6    |
| 8595491 | 4,91 | 26  | 70  | 6    |
| 8595492 | 4,92 | 26  | 70  | 6    |
| 8595493 | 4,93 | 26  | 70  | 6    |
| 8595494 | 4,94 | 26  | 70  | 6    |
| 8595495 | 4,95 | 26  | 70  | 6    |
| 8595496 | 4,96 | 26  | 70  | 6    |
| 8595497 | 4,97 | 26  | 70  | 6    |
| 8595498 | 4,98 | 26  | 70  | 6    |
| 8595499 | 4,99 | 26  | 70  | 6    |
| 61550   | 5    | 26  | 70  | 6    |
| 8595501 | 5,01 | 26  | 70  | 6    |
| 8595502 | 5,02 | 26  | 70  | 6    |
| 8595503 | 5,03 | 26  | 70  | 6    |
| 8595504 | 5,04 | 26  | 70  | 6    |
| 8595505 | 5,05 | 26  | 70  | 6    |
| 8595506 | 5,06 | 26  | 70  | 6    |
| 8595507 | 5,07 | 26  | 70  | 6    |
| 8595508 | 5,08 | 26  | 70  | 6    |
| 8595509 | 5,09 | 26  | 70  | 6    |

Drilling | HSS

3xD

# EX-SUS-GDS

Drilling | HSS | 3xD



- First choice in quality and performance
- HSSE drill with TiN coating
- Up to 3xD
- For stainless steel, low carbon steel and cast aluminium
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| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 61551   | 5,1  | 26  | 70  | 6    |
| 8595511 | 5,11 | 26  | 70  | 6    |
| 8595512 | 5,12 | 26  | 70  | 6    |
| 8595513 | 5,13 | 26  | 70  | 6    |
| 8595514 | 5,14 | 26  | 70  | 6    |
| 8595515 | 5,15 | 26  | 70  | 6    |
| 8595516 | 5,16 | 26  | 70  | 6    |
| 8595517 | 5,17 | 26  | 70  | 6    |
| 8595518 | 5,18 | 26  | 70  | 6    |
| 8595519 | 5,19 | 26  | 70  | 6    |
| 61552   | 5,2  | 26  | 70  | 6    |
| 8595521 | 5,21 | 26  | 70  | 6    |
| 8595522 | 5,22 | 26  | 70  | 6    |
| 8595523 | 5,23 | 26  | 70  | 6    |
| 8595524 | 5,24 | 26  | 70  | 6    |
| 8595525 | 5,25 | 26  | 70  | 6    |
| 8595526 | 5,26 | 26  | 70  | 6    |
| 8595527 | 5,27 | 26  | 70  | 6    |
| 8595528 | 5,28 | 26  | 70  | 6    |
| 8595529 | 5,29 | 26  | 70  | 6    |
| 61553   | 5,3  | 26  | 70  | 6    |
| 8595531 | 5,31 | 28  | 72  | 6    |
| 8595532 | 5,32 | 28  | 72  | 6    |
| 8595533 | 5,33 | 28  | 72  | 6    |
| 8595534 | 5,34 | 28  | 72  | 6    |
| 8595535 | 5,35 | 28  | 72  | 6    |
| 8595536 | 5,36 | 28  | 72  | 6    |
| 8595537 | 5,37 | 28  | 72  | 6    |
| 8595538 | 5,38 | 28  | 72  | 6    |
| 8595539 | 5,39 | 28  | 72  | 6    |
| 61554   | 5,4  | 28  | 72  | 6    |
| 8595541 | 5,41 | 28  | 72  | 6    |
| 8595542 | 5,42 | 28  | 72  | 6    |
| 8595543 | 5,43 | 28  | 72  | 6    |
| 8595544 | 5,44 | 28  | 72  | 6    |
| 8595545 | 5,45 | 28  | 72  | 6    |
| 8595546 | 5,46 | 28  | 72  | 6    |
| 8595547 | 5,47 | 28  | 72  | 6    |
| 8595548 | 5,48 | 28  | 72  | 6    |
| 8595549 | 5,49 | 28  | 72  | 6    |
| 61555   | 5,5  | 28  | 72  | 6    |
| 8595551 | 5,51 | 28  | 72  | 6    |
| 8595552 | 5,52 | 28  | 72  | 6    |
| 8595553 | 5,53 | 28  | 72  | 6    |
| 8595554 | 5,54 | 28  | 72  | 6    |
| 8595555 | 5,55 | 28  | 72  | 6    |

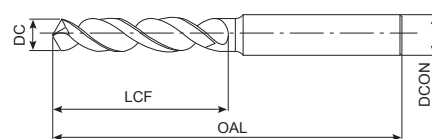
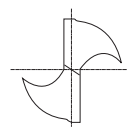
| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8595556 | 5,56 | 28  | 72  | 6    |
| 8595557 | 5,57 | 28  | 72  | 6    |
| 8595558 | 5,58 | 28  | 72  | 6    |
| 8595559 | 5,59 | 28  | 72  | 6    |
| 61556   | 5,6  | 28  | 72  | 6    |
| 8595561 | 5,61 | 28  | 72  | 6    |
| 8595562 | 5,62 | 28  | 72  | 6    |
| 8595563 | 5,63 | 28  | 72  | 6    |
| 8595564 | 5,64 | 28  | 72  | 6    |
| 8595565 | 5,65 | 28  | 72  | 6    |
| 8595566 | 5,66 | 28  | 72  | 6    |
| 8595567 | 5,67 | 28  | 72  | 6    |
| 8595568 | 5,68 | 28  | 72  | 6    |
| 8595569 | 5,69 | 28  | 72  | 6    |
| 61557   | 5,7  | 28  | 72  | 6    |
| 8595571 | 5,71 | 28  | 72  | 6    |
| 8595572 | 5,72 | 28  | 72  | 6    |
| 8595573 | 5,73 | 28  | 72  | 6    |
| 8595574 | 5,74 | 28  | 72  | 6    |
| 8595575 | 5,75 | 28  | 72  | 6    |
| 8595576 | 5,76 | 28  | 72  | 6    |
| 8595577 | 5,77 | 28  | 72  | 6    |
| 8595578 | 5,78 | 28  | 72  | 6    |
| 8595579 | 5,79 | 28  | 72  | 6    |
| 61558   | 5,8  | 28  | 72  | 6    |
| 8595581 | 5,81 | 28  | 72  | 6    |
| 8595582 | 5,82 | 28  | 72  | 6    |
| 8595583 | 5,83 | 28  | 72  | 6    |
| 8595584 | 5,84 | 28  | 72  | 6    |
| 8595585 | 5,85 | 28  | 72  | 6    |
| 8595586 | 5,86 | 28  | 72  | 6    |
| 8595587 | 5,87 | 28  | 72  | 6    |
| 8595588 | 5,88 | 28  | 72  | 6    |
| 8595589 | 5,89 | 28  | 72  | 6    |
| 61559   | 5,9  | 28  | 72  | 6    |
| 8595591 | 5,91 | 28  | 72  | 6    |
| 8595592 | 5,92 | 28  | 72  | 6    |
| 8595593 | 5,93 | 28  | 72  | 6    |
| 8595594 | 5,94 | 28  | 72  | 6    |
| 8595595 | 5,95 | 28  | 72  | 6    |
| 8595596 | 5,96 | 28  | 72  | 6    |
| 8595597 | 5,97 | 28  | 72  | 6    |
| 8595598 | 5,98 | 28  | 72  | 6    |
| 8595599 | 5,99 | 28  | 72  | 6    |
| 61560   | 6    | 28  | 72  | 6    |
| 61561   | 6,1  | 31  | 75  | 8    |





# EX-SUS-GDS

Drilling | HSS | 3xD



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| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 61562 | 6,2  | 31  | 75  | 8    |
| 61563 | 6,3  | 31  | 75  | 8    |
| 61564 | 6,4  | 31  | 75  | 8    |
| 61565 | 6,5  | 31  | 75  | 8    |
| 61566 | 6,6  | 31  | 75  | 8    |
| 61567 | 6,7  | 31  | 75  | 8    |
| 61568 | 6,8  | 34  | 78  | 8    |
| 61569 | 6,9  | 34  | 78  | 8    |
| 61570 | 7    | 34  | 78  | 8    |
| 61571 | 7,1  | 34  | 78  | 8    |
| 61572 | 7,2  | 34  | 78  | 8    |
| 61573 | 7,3  | 34  | 78  | 8    |
| 61574 | 7,4  | 34  | 78  | 8    |
| 61575 | 7,5  | 34  | 78  | 8    |
| 61576 | 7,6  | 37  | 81  | 8    |
| 61577 | 7,7  | 37  | 81  | 8    |
| 61578 | 7,8  | 37  | 81  | 8    |
| 61579 | 7,9  | 37  | 81  | 8    |
| 61580 | 8    | 37  | 81  | 8    |
| 61581 | 8,1  | 37  | 87  | 10   |
| 61582 | 8,2  | 37  | 87  | 10   |
| 61583 | 8,3  | 37  | 87  | 10   |
| 61584 | 8,4  | 37  | 87  | 10   |
| 61585 | 8,5  | 37  | 87  | 10   |
| 61586 | 8,6  | 40  | 90  | 10   |
| 61587 | 8,7  | 40  | 90  | 10   |
| 61588 | 8,8  | 40  | 90  | 10   |
| 61589 | 8,9  | 40  | 90  | 10   |
| 61590 | 9    | 40  | 90  | 10   |
| 61591 | 9,1  | 40  | 90  | 10   |
| 61592 | 9,2  | 40  | 90  | 10   |
| 61593 | 9,3  | 40  | 90  | 10   |
| 61594 | 9,4  | 40  | 90  | 10   |
| 61595 | 9,5  | 40  | 90  | 10   |
| 61596 | 9,6  | 43  | 93  | 10   |
| 61597 | 9,7  | 43  | 93  | 10   |
| 61598 | 9,8  | 43  | 93  | 10   |
| 61599 | 9,9  | 43  | 93  | 10   |
| 61600 | 10   | 43  | 93  | 10   |
| 61601 | 10,1 | 43  | 100 | 12   |
| 61602 | 10,2 | 43  | 100 | 12   |
| 61603 | 10,3 | 43  | 100 | 12   |
| 61604 | 10,4 | 43  | 100 | 12   |
| 61605 | 10,5 | 43  | 100 | 12   |
| 61606 | 10,6 | 43  | 100 | 12   |
| 61607 | 10,7 | 47  | 104 | 12   |

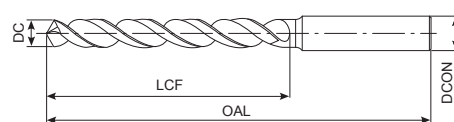
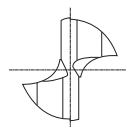
| EDP      | DC   | LCF | OAL | DCON |
|----------|------|-----|-----|------|
| 61608    | 10,8 | 47  | 104 | 12   |
| 61609    | 10,9 | 47  | 104 | 12   |
| 61610    | 11   | 47  | 104 | 12   |
| 61611    | 11,1 | 47  | 104 | 12   |
| 61612    | 11,2 | 47  | 104 | 12   |
| 61613    | 11,3 | 47  | 104 | 12   |
| 61614    | 11,4 | 47  | 104 | 12   |
| 61615    | 11,5 | 47  | 104 | 12   |
| 61616    | 11,6 | 47  | 104 | 12   |
| 61617    | 11,7 | 47  | 104 | 12   |
| 61618    | 11,8 | 47  | 104 | 12   |
| 61619    | 11,9 | 51  | 108 | 12   |
| 61620    | 12   | 51  | 108 | 12   |
| 43011210 | 12,1 | 51  | 108 | 16   |
| 43011220 | 12,2 | 51  | 108 | 16   |
| 43011230 | 12,3 | 51  | 108 | 16   |
| 43011240 | 12,4 | 51  | 108 | 16   |
| 43011250 | 12,5 | 51  | 108 | 16   |
| 43011260 | 12,6 | 51  | 108 | 16   |
| 43011270 | 12,7 | 51  | 108 | 16   |
| 43011280 | 12,8 | 51  | 108 | 16   |
| 43011290 | 12,9 | 51  | 108 | 16   |
| 43011300 | 13   | 51  | 108 | 16   |
| 43011350 | 13,5 | 54  | 114 | 16   |
| 43011400 | 14   | 54  | 114 | 16   |
| 43011450 | 14,5 | 56  | 116 | 16   |
| 43011500 | 15   | 56  | 116 | 16   |
| 43011550 | 15,5 | 58  | 118 | 16   |
| 43011600 | 16   | 58  | 118 | 16   |
| 43011650 | 16,5 | 60  | 126 | 20   |
| 43011700 | 17   | 60  | 126 | 20   |
| 43011750 | 17,5 | 62  | 128 | 20   |
| 43011800 | 18   | 62  | 128 | 20   |
| 43011850 | 18,5 | 64  | 130 | 20   |
| 43011900 | 19   | 64  | 130 | 20   |
| 43011950 | 19,5 | 66  | 132 | 20   |
| 43012000 | 20   | 66  | 132 | 20   |

Drilling | HSS

3xD

# EX-SUS-GDR

Drilling | HSS | 5xD



- First choice in quality and performance
- HSSE drill with TiN coating
- Up to 5xD
- For stainless steel, low carbon steel and cast aluminium
- 485 sizes - from Ø 2 - 6 mm in 0,01 mm increments

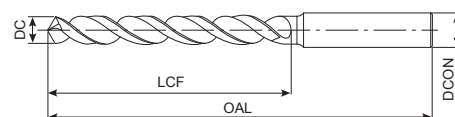
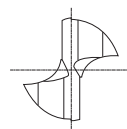


| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 62520   | 2    | 24  | 56  | 3    |
| 8597201 | 2,01 | 24  | 56  | 3    |
| 8597202 | 2,02 | 24  | 56  | 3    |
| 8597203 | 2,03 | 24  | 56  | 3    |
| 8597204 | 2,04 | 24  | 56  | 3    |
| 8597205 | 2,05 | 24  | 56  | 3    |
| 8597206 | 2,06 | 24  | 56  | 3    |
| 8597207 | 2,07 | 24  | 56  | 3    |
| 8597208 | 2,08 | 24  | 56  | 3    |
| 8597209 | 2,09 | 24  | 56  | 3    |
| 62521   | 2,1  | 24  | 56  | 3    |
| 8597211 | 2,11 | 24  | 56  | 3    |
| 8597212 | 2,12 | 24  | 56  | 3    |
| 8597213 | 2,13 | 27  | 59  | 3    |
| 8597214 | 2,14 | 27  | 59  | 3    |
| 8597215 | 2,15 | 27  | 59  | 3    |
| 8597216 | 2,16 | 27  | 59  | 3    |
| 8597217 | 2,17 | 27  | 59  | 3    |
| 8597218 | 2,18 | 27  | 59  | 3    |
| 8597219 | 2,19 | 27  | 59  | 3    |
| 62522   | 2,2  | 27  | 59  | 3    |
| 8597221 | 2,21 | 27  | 59  | 3    |
| 8597222 | 2,22 | 27  | 59  | 3    |
| 8597223 | 2,23 | 27  | 59  | 3    |
| 8597224 | 2,24 | 27  | 59  | 3    |
| 8597225 | 2,25 | 27  | 59  | 3    |
| 8597226 | 2,26 | 27  | 59  | 3    |
| 8597227 | 2,27 | 27  | 59  | 3    |
| 8597228 | 2,28 | 27  | 59  | 3    |
| 8597229 | 2,29 | 27  | 59  | 3    |
| 62523   | 2,3  | 27  | 59  | 3    |
| 8597231 | 2,31 | 27  | 59  | 3    |
| 8597232 | 2,32 | 27  | 59  | 3    |
| 8597233 | 2,33 | 27  | 59  | 3    |
| 8597234 | 2,34 | 27  | 59  | 3    |
| 8597235 | 2,35 | 27  | 59  | 3    |
| 8597236 | 2,36 | 27  | 59  | 3    |
| 8597237 | 2,37 | 30  | 62  | 3    |
| 8597238 | 2,38 | 30  | 62  | 3    |
| 8597239 | 2,39 | 30  | 62  | 3    |
| 62524   | 2,4  | 30  | 62  | 3    |
| 8597241 | 2,41 | 30  | 62  | 3    |
| 8597242 | 2,42 | 30  | 62  | 3    |
| 8597243 | 2,43 | 30  | 62  | 3    |
| 8597244 | 2,44 | 30  | 62  | 3    |
| 8597245 | 2,45 | 30  | 62  | 3    |

| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8597246 | 2,46 | 30  | 62  | 3    |
| 8597247 | 2,47 | 30  | 62  | 3    |
| 8597248 | 2,48 | 30  | 62  | 3    |
| 8597249 | 2,49 | 30  | 62  | 3    |
| 62525   | 2,5  | 30  | 62  | 3    |
| 8597251 | 2,51 | 30  | 62  | 3    |
| 8597252 | 2,52 | 30  | 62  | 3    |
| 8597253 | 2,53 | 30  | 62  | 3    |
| 8597254 | 2,54 | 30  | 62  | 3    |
| 8597255 | 2,55 | 30  | 62  | 3    |
| 8597256 | 2,56 | 30  | 62  | 3    |
| 8597257 | 2,57 | 30  | 62  | 3    |
| 8597258 | 2,58 | 30  | 62  | 3    |
| 8597259 | 2,59 | 30  | 62  | 3    |
| 62526   | 2,6  | 30  | 62  | 3    |
| 8597261 | 2,61 | 30  | 62  | 3    |
| 8597262 | 2,62 | 30  | 62  | 3    |
| 8597263 | 2,63 | 30  | 62  | 3    |
| 8597264 | 2,64 | 30  | 62  | 3    |
| 8597265 | 2,65 | 30  | 62  | 3    |
| 8597266 | 2,66 | 33  | 65  | 3    |
| 8597267 | 2,67 | 33  | 65  | 3    |
| 8597268 | 2,68 | 33  | 65  | 3    |
| 8597269 | 2,69 | 33  | 65  | 3    |
| 62527   | 2,7  | 33  | 65  | 3    |
| 8597271 | 2,71 | 33  | 65  | 3    |
| 8597272 | 2,72 | 33  | 65  | 3    |
| 8597273 | 2,73 | 33  | 65  | 3    |
| 8597274 | 2,74 | 33  | 65  | 3    |
| 8597275 | 2,75 | 33  | 65  | 3    |
| 8597276 | 2,76 | 33  | 65  | 3    |
| 8597277 | 2,77 | 33  | 65  | 3    |
| 8597278 | 2,78 | 33  | 65  | 3    |
| 8597279 | 2,79 | 33  | 65  | 3    |
| 62528   | 2,8  | 33  | 65  | 3    |
| 8597281 | 2,81 | 33  | 65  | 3    |
| 8597282 | 2,82 | 33  | 65  | 3    |
| 8597283 | 2,83 | 33  | 65  | 3    |
| 8597284 | 2,84 | 33  | 65  | 3    |
| 8597285 | 2,85 | 33  | 65  | 3    |
| 8597286 | 2,86 | 33  | 65  | 3    |
| 8597287 | 2,87 | 33  | 65  | 3    |
| 8597288 | 2,88 | 33  | 65  | 3    |
| 8597289 | 2,89 | 33  | 65  | 3    |
| 62529   | 2,9  | 33  | 65  | 3    |
| 8597291 | 2,91 | 33  | 65  | 3    |

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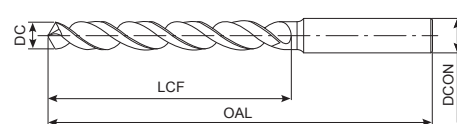
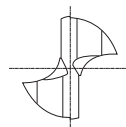
| EDP     | DC   | LCF | OAL | DCON | EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|---------|------|-----|-----|------|
| 8597292 | 2,92 | 33  | 65  | 3    | 8597338 | 3,38 | 39  | 71  | 4    |
| 8597293 | 2,93 | 33  | 65  | 3    | 8597339 | 3,39 | 39  | 71  | 4    |
| 8597294 | 2,94 | 33  | 65  | 3    | 62534   | 3,4  | 39  | 71  | 4    |
| 8597295 | 2,95 | 33  | 65  | 3    | 8597341 | 3,41 | 39  | 71  | 4    |
| 8597296 | 2,96 | 33  | 65  | 3    | 8597342 | 3,42 | 39  | 71  | 4    |
| 8597297 | 2,97 | 33  | 65  | 3    | 8597343 | 3,43 | 39  | 71  | 4    |
| 8597298 | 2,98 | 33  | 65  | 3    | 8597344 | 3,44 | 39  | 71  | 4    |
| 8597299 | 2,99 | 33  | 65  | 3    | 8597345 | 3,45 | 39  | 71  | 4    |
| 62530   | 3    | 33  | 65  | 3    | 8597346 | 3,46 | 39  | 71  | 4    |
| 8597301 | 3,01 | 36  | 68  | 4    | 8597347 | 3,47 | 39  | 71  | 4    |
| 8597302 | 3,02 | 36  | 68  | 4    | 8597348 | 3,48 | 39  | 71  | 4    |
| 8597303 | 3,03 | 36  | 68  | 4    | 8597349 | 3,49 | 39  | 71  | 4    |
| 8597304 | 3,04 | 36  | 68  | 4    | 62535   | 3,5  | 39  | 71  | 4    |
| 8597305 | 3,05 | 36  | 68  | 4    | 8597351 | 3,51 | 39  | 71  | 4    |
| 8597306 | 3,06 | 36  | 68  | 4    | 8597352 | 3,52 | 39  | 71  | 4    |
| 8597307 | 3,07 | 36  | 68  | 4    | 8597353 | 3,53 | 39  | 71  | 4    |
| 8597308 | 3,08 | 36  | 68  | 4    | 8597354 | 3,54 | 39  | 71  | 4    |
| 8597309 | 3,09 | 36  | 68  | 4    | 8597355 | 3,55 | 39  | 71  | 4    |
| 62531   | 3,1  | 36  | 68  | 4    | 8597356 | 3,56 | 39  | 71  | 4    |
| 8597311 | 3,11 | 36  | 68  | 4    | 8597357 | 3,57 | 39  | 71  | 4    |
| 8597312 | 3,12 | 36  | 68  | 4    | 8597358 | 3,58 | 39  | 71  | 4    |
| 8597313 | 3,13 | 36  | 68  | 4    | 8597359 | 3,59 | 39  | 71  | 4    |
| 8597314 | 3,14 | 36  | 68  | 4    | 62536   | 3,6  | 39  | 71  | 4    |
| 8597315 | 3,15 | 36  | 68  | 4    | 8597361 | 3,61 | 39  | 71  | 4    |
| 8597316 | 3,16 | 36  | 68  | 4    | 8597362 | 3,62 | 39  | 71  | 4    |
| 8597317 | 3,17 | 36  | 68  | 4    | 8597363 | 3,63 | 39  | 71  | 4    |
| 8597318 | 3,18 | 36  | 68  | 4    | 8597364 | 3,64 | 39  | 71  | 4    |
| 8597319 | 3,19 | 36  | 68  | 4    | 8597365 | 3,65 | 39  | 71  | 4    |
| 62532   | 3,2  | 36  | 68  | 4    | 8597366 | 3,66 | 39  | 71  | 4    |
| 8597321 | 3,21 | 36  | 68  | 4    | 8597367 | 3,67 | 39  | 71  | 4    |
| 8597322 | 3,22 | 36  | 68  | 4    | 8597368 | 3,68 | 39  | 71  | 4    |
| 8597323 | 3,23 | 36  | 68  | 4    | 8597369 | 3,69 | 39  | 71  | 4    |
| 8597324 | 3,24 | 36  | 68  | 4    | 62537   | 3,7  | 39  | 71  | 4    |
| 8597325 | 3,25 | 36  | 68  | 4    | 8597371 | 3,71 | 39  | 71  | 4    |
| 8597326 | 3,26 | 36  | 68  | 4    | 8597372 | 3,72 | 39  | 71  | 4    |
| 8597327 | 3,27 | 36  | 68  | 4    | 8597373 | 3,73 | 39  | 71  | 4    |
| 8597328 | 3,28 | 36  | 68  | 4    | 8597374 | 3,74 | 39  | 71  | 4    |
| 8597329 | 3,29 | 36  | 68  | 4    | 8597375 | 3,75 | 39  | 71  | 4    |
| 62533   | 3,3  | 36  | 68  | 4    | 8597376 | 3,76 | 43  | 75  | 4    |
| 8597331 | 3,31 | 36  | 68  | 4    | 8597377 | 3,77 | 43  | 75  | 4    |
| 8597332 | 3,32 | 36  | 68  | 4    | 8597378 | 3,78 | 43  | 75  | 4    |
| 8597333 | 3,33 | 36  | 68  | 4    | 8597379 | 3,79 | 43  | 75  | 4    |
| 8597334 | 3,34 | 36  | 68  | 4    | 62538   | 3,8  | 43  | 75  | 4    |
| 8597335 | 3,35 | 36  | 68  | 4    | 8597381 | 3,81 | 43  | 75  | 4    |
| 8597336 | 3,36 | 39  | 71  | 4    | 8597382 | 3,82 | 43  | 75  | 4    |
| 8597337 | 3,37 | 39  | 71  | 4    | 8597383 | 3,83 | 43  | 75  | 4    |

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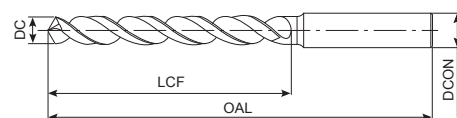
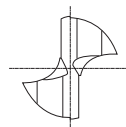


| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8597384 | 3,84 | 43  | 75  | 4    |
| 8597385 | 3,85 | 43  | 75  | 4    |
| 8597386 | 3,86 | 43  | 75  | 4    |
| 8597387 | 3,87 | 43  | 75  | 4    |
| 8597388 | 3,88 | 43  | 75  | 4    |
| 8597389 | 3,89 | 43  | 75  | 4    |
| 62539   | 3,9  | 43  | 75  | 4    |
| 8597391 | 3,91 | 43  | 75  | 4    |
| 8597392 | 3,92 | 43  | 75  | 4    |
| 8597393 | 3,93 | 43  | 75  | 4    |
| 8597394 | 3,94 | 43  | 75  | 4    |
| 8597395 | 3,95 | 43  | 75  | 4    |
| 8597396 | 3,96 | 43  | 75  | 4    |
| 8597397 | 3,97 | 43  | 75  | 4    |
| 8597398 | 3,98 | 43  | 75  | 4    |
| 8597399 | 3,99 | 43  | 75  | 4    |
| 62540   | 4    | 43  | 75  | 4    |
| 8597401 | 4,01 | 43  | 87  | 6    |
| 8597402 | 4,02 | 43  | 87  | 6    |
| 8597403 | 4,03 | 43  | 87  | 6    |
| 8597404 | 4,04 | 43  | 87  | 6    |
| 8597405 | 4,05 | 43  | 87  | 6    |
| 8597406 | 4,06 | 43  | 87  | 6    |
| 8597407 | 4,07 | 43  | 87  | 6    |
| 8597408 | 4,08 | 43  | 87  | 6    |
| 8597409 | 4,09 | 43  | 87  | 6    |
| 62541   | 4,1  | 43  | 87  | 6    |
| 8597411 | 4,11 | 43  | 87  | 6    |
| 8597412 | 4,12 | 43  | 87  | 6    |
| 8597413 | 4,13 | 43  | 87  | 6    |
| 8597414 | 4,14 | 43  | 87  | 6    |
| 8597415 | 4,15 | 43  | 87  | 6    |
| 8597416 | 4,16 | 43  | 87  | 6    |
| 8597417 | 4,17 | 43  | 87  | 6    |
| 8597418 | 4,18 | 43  | 87  | 6    |
| 8597419 | 4,19 | 43  | 87  | 6    |
| 62542   | 4,2  | 43  | 87  | 6    |
| 8597421 | 4,21 | 43  | 87  | 6    |
| 8597422 | 4,22 | 43  | 87  | 6    |
| 8597423 | 4,23 | 43  | 87  | 6    |
| 8597424 | 4,24 | 43  | 87  | 6    |
| 8597425 | 4,25 | 43  | 87  | 6    |
| 8597426 | 4,26 | 47  | 91  | 6    |
| 8597427 | 4,27 | 47  | 91  | 6    |
| 8597428 | 4,28 | 47  | 91  | 6    |
| 8597429 | 4,29 | 47  | 91  | 6    |

| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 62543   | 4,3  | 47  | 91  | 6    |
| 8597431 | 4,31 | 47  | 91  | 6    |
| 8597432 | 4,32 | 47  | 91  | 6    |
| 8597433 | 4,33 | 47  | 91  | 6    |
| 8597434 | 4,34 | 47  | 91  | 6    |
| 8597435 | 4,35 | 47  | 91  | 6    |
| 8597436 | 4,36 | 47  | 91  | 6    |
| 8597437 | 4,37 | 47  | 91  | 6    |
| 8597438 | 4,38 | 47  | 91  | 6    |
| 8597439 | 4,39 | 47  | 91  | 6    |
| 62544   | 4,4  | 47  | 91  | 6    |
| 8597441 | 4,41 | 47  | 91  | 6    |
| 8597442 | 4,42 | 47  | 91  | 6    |
| 8597443 | 4,43 | 47  | 91  | 6    |
| 8597444 | 4,44 | 47  | 91  | 6    |
| 8597445 | 4,45 | 47  | 91  | 6    |
| 8597446 | 4,46 | 47  | 91  | 6    |
| 8597447 | 4,47 | 47  | 91  | 6    |
| 8597448 | 4,48 | 47  | 91  | 6    |
| 8597449 | 4,49 | 47  | 91  | 6    |
| 62545   | 4,5  | 47  | 91  | 6    |
| 8597451 | 4,51 | 47  | 91  | 6    |
| 8597452 | 4,52 | 47  | 91  | 6    |
| 8597453 | 4,53 | 47  | 91  | 6    |
| 8597454 | 4,54 | 47  | 91  | 6    |
| 8597455 | 4,55 | 47  | 91  | 6    |
| 8597456 | 4,56 | 47  | 91  | 6    |
| 8597457 | 4,57 | 47  | 91  | 6    |
| 8597458 | 4,58 | 47  | 91  | 6    |
| 8597459 | 4,59 | 47  | 91  | 6    |
| 62546   | 4,6  | 47  | 91  | 6    |
| 8597461 | 4,61 | 47  | 91  | 6    |
| 8597462 | 4,62 | 47  | 91  | 6    |
| 8597463 | 4,63 | 47  | 91  | 6    |
| 8597464 | 4,64 | 47  | 91  | 6    |
| 8597465 | 4,65 | 47  | 91  | 6    |
| 8597466 | 4,66 | 47  | 91  | 6    |
| 8597467 | 4,67 | 47  | 91  | 6    |
| 8597468 | 4,68 | 47  | 91  | 6    |
| 8597469 | 4,69 | 47  | 91  | 6    |
| 62547   | 4,7  | 47  | 91  | 6    |
| 8597471 | 4,71 | 47  | 91  | 6    |
| 8597472 | 4,72 | 47  | 91  | 6    |
| 8597473 | 4,73 | 47  | 91  | 6    |
| 8597474 | 4,74 | 47  | 91  | 6    |
| 8597475 | 4,75 | 47  | 91  | 6    |

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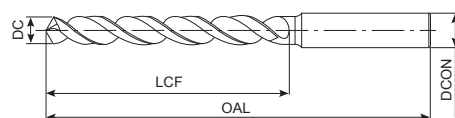
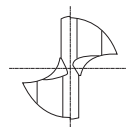
Drilling | HSS

5xD

| EDP     | DC   | LCF | OAL | DCON | EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|---------|------|-----|-----|------|
| 8597476 | 4,76 | 52  | 96  | 6    | 8597522 | 5,22 | 52  | 96  | 6    |
| 8597477 | 4,77 | 52  | 96  | 6    | 8597523 | 5,23 | 52  | 96  | 6    |
| 8597478 | 4,78 | 52  | 96  | 6    | 8597524 | 5,24 | 52  | 96  | 6    |
| 8597479 | 4,79 | 52  | 96  | 6    | 8597525 | 5,25 | 52  | 96  | 6    |
| 62548   | 4,8  | 52  | 96  | 6    | 8597526 | 5,26 | 52  | 96  | 6    |
| 8597481 | 4,81 | 52  | 96  | 6    | 8597527 | 5,27 | 52  | 96  | 6    |
| 8597482 | 4,82 | 52  | 96  | 6    | 8597528 | 5,28 | 52  | 96  | 6    |
| 8597483 | 4,83 | 52  | 96  | 6    | 8597529 | 5,29 | 52  | 96  | 6    |
| 8597484 | 4,84 | 52  | 96  | 6    | 62553   | 5,3  | 52  | 96  | 6    |
| 8597485 | 4,85 | 52  | 96  | 6    | 8597531 | 5,31 | 57  | 101 | 6    |
| 8597486 | 4,86 | 52  | 96  | 6    | 8597532 | 5,32 | 57  | 101 | 6    |
| 8597487 | 4,87 | 52  | 96  | 6    | 8597533 | 5,33 | 57  | 101 | 6    |
| 8597488 | 4,88 | 52  | 96  | 6    | 8597534 | 5,34 | 57  | 101 | 6    |
| 8597489 | 4,89 | 52  | 96  | 6    | 8597535 | 5,35 | 57  | 101 | 6    |
| 62549   | 4,9  | 52  | 96  | 6    | 8597536 | 5,36 | 57  | 101 | 6    |
| 8597491 | 4,91 | 52  | 96  | 6    | 8597537 | 5,37 | 57  | 101 | 6    |
| 8597492 | 4,92 | 52  | 96  | 6    | 8597538 | 5,38 | 57  | 101 | 6    |
| 8597493 | 4,93 | 52  | 96  | 6    | 8597539 | 5,39 | 57  | 101 | 6    |
| 8597494 | 4,94 | 52  | 96  | 6    | 62554   | 5,4  | 57  | 101 | 6    |
| 8597495 | 4,95 | 52  | 96  | 6    | 8597541 | 5,41 | 57  | 101 | 6    |
| 8597496 | 4,96 | 52  | 96  | 6    | 8597542 | 5,42 | 57  | 101 | 6    |
| 8597497 | 4,97 | 52  | 96  | 6    | 8597543 | 5,43 | 57  | 101 | 6    |
| 8597498 | 4,98 | 52  | 96  | 6    | 8597544 | 5,44 | 57  | 101 | 6    |
| 8597499 | 4,99 | 52  | 96  | 6    | 8597545 | 5,45 | 57  | 101 | 6    |
| 62550   | 5    | 52  | 96  | 6    | 8597546 | 5,46 | 57  | 101 | 6    |
| 8597501 | 5,01 | 52  | 96  | 6    | 8597547 | 5,47 | 57  | 101 | 6    |
| 8597502 | 5,02 | 52  | 96  | 6    | 8597548 | 5,48 | 57  | 101 | 6    |
| 8597503 | 5,03 | 52  | 96  | 6    | 8597549 | 5,49 | 57  | 101 | 6    |
| 8597504 | 5,04 | 52  | 96  | 6    | 62555   | 5,5  | 57  | 101 | 6    |
| 8597505 | 5,05 | 52  | 96  | 6    | 8597551 | 5,51 | 57  | 101 | 6    |
| 8597506 | 5,06 | 52  | 96  | 6    | 8597552 | 5,52 | 57  | 101 | 6    |
| 8597507 | 5,07 | 52  | 96  | 6    | 8597553 | 5,53 | 57  | 101 | 6    |
| 8597508 | 5,08 | 52  | 96  | 6    | 8597554 | 5,54 | 57  | 101 | 6    |
| 8597509 | 5,09 | 52  | 96  | 6    | 8597555 | 5,55 | 57  | 101 | 6    |
| 62551   | 5,1  | 52  | 96  | 6    | 8597556 | 5,56 | 57  | 101 | 6    |
| 8597511 | 5,11 | 52  | 96  | 6    | 8597557 | 5,57 | 57  | 101 | 6    |
| 8597512 | 5,12 | 52  | 96  | 6    | 8597558 | 5,58 | 57  | 101 | 6    |
| 8597513 | 5,13 | 52  | 96  | 6    | 8597559 | 5,59 | 57  | 101 | 6    |
| 8597514 | 5,14 | 52  | 96  | 6    | 62556   | 5,6  | 57  | 101 | 6    |
| 8597515 | 5,15 | 52  | 96  | 6    | 8597561 | 5,61 | 57  | 101 | 6    |
| 8597516 | 5,16 | 52  | 96  | 6    | 8597562 | 5,62 | 57  | 101 | 6    |
| 8597517 | 5,17 | 52  | 96  | 6    | 8597563 | 5,63 | 57  | 101 | 6    |
| 8597518 | 5,18 | 52  | 96  | 6    | 8597564 | 5,64 | 57  | 101 | 6    |
| 8597519 | 5,19 | 52  | 96  | 6    | 8597565 | 5,65 | 57  | 101 | 6    |
| 62552   | 5,2  | 52  | 96  | 6    | 8597566 | 5,66 | 57  | 101 | 6    |
| 8597521 | 5,21 | 52  | 96  | 6    | 8597567 | 5,67 | 57  | 101 | 6    |

# EX-SUS-GDR

Drilling | HSS | 5xD



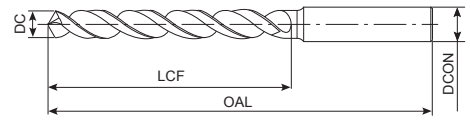
- First choice in quality and performance
- HSSE drill with TiN coating
- Up to 5xD
- For stainless steel, low carbon steel and cast aluminium
- 485 sizes - from Ø 2 - 6 mm in 0,01 mm increments



| EDP     | DC   | LCF | OAL | DCON |
|---------|------|-----|-----|------|
| 8597568 | 5,68 | 57  | 101 | 6    |
| 8597569 | 5,69 | 57  | 101 | 6    |
| 62557   | 5,7  | 57  | 101 | 6    |
| 8597571 | 5,71 | 57  | 101 | 6    |
| 8597572 | 5,72 | 57  | 101 | 6    |
| 8597573 | 5,73 | 57  | 101 | 6    |
| 8597574 | 5,74 | 57  | 101 | 6    |
| 8597575 | 5,75 | 57  | 101 | 6    |
| 8597576 | 5,76 | 57  | 101 | 6    |
| 8597577 | 5,77 | 57  | 101 | 6    |
| 8597578 | 5,78 | 57  | 101 | 6    |
| 8597579 | 5,79 | 57  | 101 | 6    |
| 62558   | 5,8  | 57  | 101 | 6    |
| 8597581 | 5,81 | 57  | 101 | 6    |
| 8597582 | 5,82 | 57  | 101 | 6    |
| 8597583 | 5,83 | 57  | 101 | 6    |
| 8597584 | 5,84 | 57  | 101 | 6    |
| 8597585 | 5,85 | 57  | 101 | 6    |
| 8597586 | 5,86 | 57  | 101 | 6    |
| 8597587 | 5,87 | 57  | 101 | 6    |
| 8597588 | 5,88 | 57  | 101 | 6    |
| 8597589 | 5,89 | 57  | 101 | 6    |
| 62559   | 5,9  | 57  | 101 | 6    |
| 8597591 | 5,91 | 57  | 101 | 6    |
| 8597592 | 5,92 | 57  | 101 | 6    |
| 8597593 | 5,93 | 57  | 101 | 6    |
| 8597594 | 5,94 | 57  | 101 | 6    |
| 8597595 | 5,95 | 57  | 101 | 6    |
| 8597596 | 5,96 | 57  | 101 | 6    |
| 8597597 | 5,97 | 57  | 101 | 6    |
| 8597598 | 5,98 | 57  | 101 | 6    |
| 8597599 | 5,99 | 57  | 101 | 6    |
| 62560   | 6    | 57  | 101 | 6    |
| 62561   | 6,1  | 63  | 107 | 8    |
| 62562   | 6,2  | 63  | 107 | 8    |
| 62563   | 6,3  | 63  | 107 | 8    |
| 62564   | 6,4  | 63  | 107 | 8    |
| 62565   | 6,5  | 63  | 107 | 8    |
| 62566   | 6,6  | 63  | 107 | 8    |
| 62567   | 6,7  | 63  | 107 | 8    |
| 62568   | 6,8  | 69  | 113 | 8    |
| 62569   | 6,9  | 69  | 113 | 8    |
| 62570   | 7    | 69  | 113 | 8    |
| 62571   | 7,1  | 69  | 113 | 8    |
| 62572   | 7,2  | 69  | 113 | 8    |
| 62573   | 7,3  | 69  | 113 | 8    |

| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 62574 | 7,4  | 69  | 113 | 8    |
| 62575 | 7,5  | 69  | 113 | 8    |
| 62576 | 7,6  | 75  | 119 | 8    |
| 62577 | 7,7  | 75  | 119 | 8    |
| 62578 | 7,8  | 75  | 119 | 8    |
| 62579 | 7,9  | 75  | 119 | 8    |
| 62580 | 8    | 75  | 119 | 8    |
| 62581 | 8,1  | 75  | 125 | 10   |
| 62582 | 8,2  | 75  | 125 | 10   |
| 62583 | 8,3  | 75  | 125 | 10   |
| 62584 | 8,4  | 75  | 125 | 10   |
| 62585 | 8,5  | 75  | 125 | 10   |
| 62586 | 8,6  | 81  | 131 | 10   |
| 62587 | 8,7  | 81  | 131 | 10   |
| 62588 | 8,8  | 81  | 131 | 10   |
| 62589 | 8,9  | 81  | 131 | 10   |
| 62590 | 9    | 81  | 131 | 10   |
| 62591 | 9,1  | 81  | 131 | 10   |
| 62592 | 9,2  | 81  | 131 | 10   |
| 62593 | 9,3  | 81  | 131 | 10   |
| 62594 | 9,4  | 81  | 131 | 10   |
| 62595 | 9,5  | 81  | 131 | 10   |
| 62596 | 9,6  | 87  | 137 | 10   |
| 62597 | 9,7  | 87  | 137 | 10   |
| 62598 | 9,8  | 87  | 137 | 10   |
| 62599 | 9,9  | 87  | 137 | 10   |
| 62600 | 10   | 87  | 137 | 10   |
| 62601 | 10,1 | 87  | 144 | 12   |
| 62602 | 10,2 | 87  | 144 | 12   |
| 62603 | 10,3 | 87  | 144 | 12   |
| 62604 | 10,4 | 87  | 144 | 12   |
| 62605 | 10,5 | 87  | 144 | 12   |
| 62606 | 10,6 | 87  | 144 | 12   |
| 62607 | 10,7 | 94  | 151 | 12   |
| 62608 | 10,8 | 94  | 151 | 12   |
| 62609 | 10,9 | 94  | 151 | 12   |
| 62610 | 11   | 94  | 151 | 12   |
| 62611 | 11,1 | 94  | 151 | 12   |
| 62612 | 11,2 | 94  | 151 | 12   |
| 62613 | 11,3 | 94  | 151 | 12   |
| 62614 | 11,4 | 94  | 151 | 12   |
| 62615 | 11,5 | 94  | 151 | 12   |
| 62616 | 11,6 | 94  | 151 | 12   |
| 62617 | 11,7 | 94  | 151 | 12   |
| 62618 | 11,8 | 94  | 151 | 12   |
| 62619 | 11,9 | 101 | 158 | 12   |

## Drilling | HSS | 5xD



- |                                                                                   |                                                                                |                                                              |                                                            |                                                      |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|
| <p><b>P</b> <input checked="" type="radio"/></p> <p><math>C &lt; 0,2\%</math></p> | <p><b>P</b> <input type="radio"/></p> <p><math>0,25 &lt; C &lt; 0,4</math></p> | <p><b>M</b> <input checked="" type="radio"/></p> <p>INOX</p> | <p><b>N</b> <input checked="" type="radio"/></p> <p>AI</p> | <p><b>N</b> <input type="radio"/></p> <p>AC, ADC</p> |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|

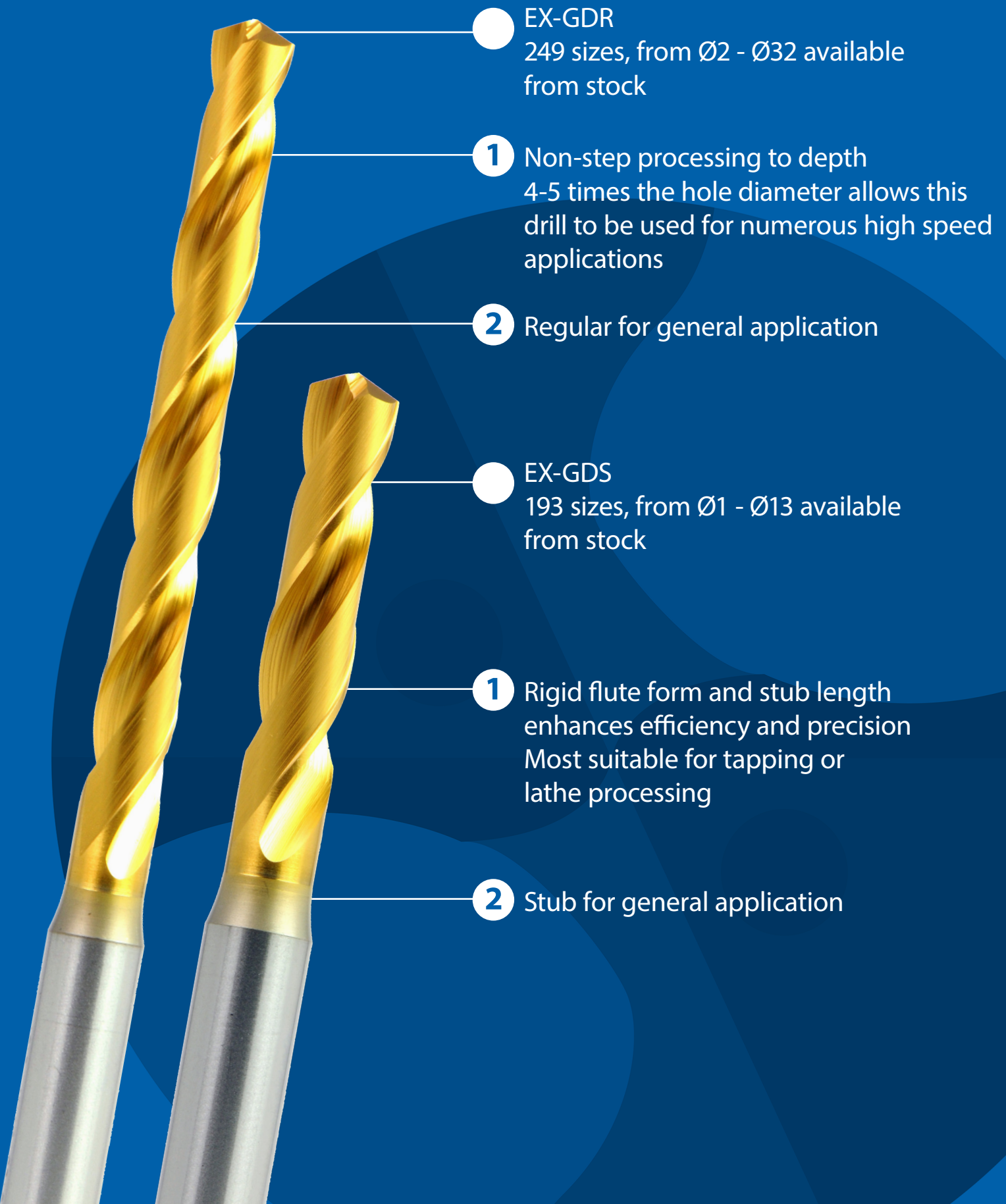
[illegible]



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# KEY FEATURES: EX-SERIES



## EX-GDR

249 sizes, from Ø2 - Ø32 available from stock

1

Non-step processing to depth  
4-5 times the hole diameter allows this drill to be used for numerous high speed applications

2

Regular for general application

## EX-GDS

193 sizes, from Ø1 - Ø13 available from stock

1

Rigid flute form and stub length  
enhances efficiency and precision  
Most suitable for tapping or  
lathe processing

2

Stub for general application

# RECOMMENDED WORK MATERIALS

The EX-GDS & EX-GDR drill line is famous worldwide for its incredible performance in nearly all material families. From cast iron and hardened alloy steel to manual machines or CNC controls, this drill has the toughness and durability to perform. Available in stub and jobber lengths in a complete stocked size offering.

- No center drills needed. Achieves high accuracy while reducing drill thrust force for longer tool life
- Added hardness versus ordinary HSS, yet exceptional toughness provides exceptional versatility in any application.
- Increased hardness and lubricity increases wear resistance thereby extending tool life.

## Applications

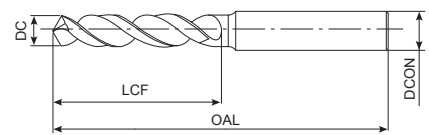
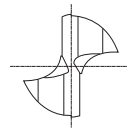
- Cast Aluminum, Cast Iron, Carbon Steel, Alloy Steel, Die Steel, Hardened Steel < 45 HRC.
- Proven cost-effective in any application, from small run jobs to large scale production runs.
- Easily reground and recoated by OSG's local Regrind Service.

|                     | EX-SUS-GDS/GDR<br> | EX-GDS<br> | EX-GDR<br> |
|---------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Low carbon steel    | ◎                                                                                                     | ○                                                                                              | ○                                                                                               |
| Medium carbon steel | ○                                                                                                     | ◎                                                                                              | ◎                                                                                               |
| High carbon steel   |                                                                                                       | ◎                                                                                              | ◎                                                                                               |
| Alloys steels       |                                                                                                       | ◎                                                                                              | ◎                                                                                               |
| ~35 HRC             |                                                                                                       | ◎                                                                                              | ○                                                                                               |
| 35~45 HRC           |                                                                                                       | ◎ / ○*                                                                                         |                                                                                                 |
| 45~50 HRC           |                                                                                                       |                                                                                                |                                                                                                 |
| 50~70 HRC           |                                                                                                       |                                                                                                |                                                                                                 |
| Stainless           | ◎                                                                                                     |                                                                                                |                                                                                                 |
| Tool steel          |                                                                                                       | ◎ / ○*                                                                                         | ◎                                                                                               |
| Cast iron           |                                                                                                       | ◎                                                                                              | ◎                                                                                               |
| Ductile cast iron   |                                                                                                       | ○                                                                                              | ○                                                                                               |
| Copper              | ◎                                                                                                     |                                                                                                |                                                                                                 |
| Aluminium           | ◎                                                                                                     |                                                                                                | ○                                                                                               |
| Alu alloy casting   | ○                                                                                                     | ○                                                                                              | ○                                                                                               |
| Titanium alloy      |                                                                                                       |                                                                                                |                                                                                                 |
| Inconel             |                                                                                                       | ○                                                                                              |                                                                                                 |
| Magnesium alloy     |                                                                                                       | ○                                                                                              | ○                                                                                               |

◎ Recommended ○ Good \* Drilling depth 3D~4D

# EX-GDS

Drilling | HSS | 3xD



- HSSE drill with TiN coating
- Up to 3xD
- General purpose
- 193 sizes



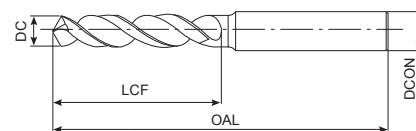
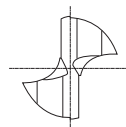
| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60010 | 1    | 6   | 38  | 3    |
| 60410 | 1,05 | 6   | 38  | 3    |
| 60011 | 1,1  | 7   | 39  | 3    |
| 60411 | 1,15 | 7   | 39  | 3    |
| 60012 | 1,2  | 8   | 40  | 3    |
| 60412 | 1,25 | 8   | 40  | 3    |
| 60013 | 1,3  | 8   | 40  | 3    |
| 60413 | 1,35 | 9   | 41  | 3    |
| 60014 | 1,4  | 9   | 41  | 3    |
| 60414 | 1,45 | 9   | 41  | 3    |
| 60015 | 1,5  | 9   | 41  | 3    |
| 60415 | 1,55 | 10  | 42  | 3    |
| 60016 | 1,6  | 10  | 42  | 3    |
| 60416 | 1,65 | 10  | 42  | 3    |
| 60017 | 1,7  | 10  | 42  | 3    |
| 60417 | 1,75 | 11  | 43  | 3    |
| 60018 | 1,8  | 11  | 43  | 3    |
| 60418 | 1,85 | 11  | 43  | 3    |
| 60019 | 1,9  | 11  | 43  | 3    |
| 60419 | 1,95 | 12  | 44  | 3    |
| 60020 | 2    | 12  | 44  | 3    |
| 60420 | 2,05 | 12  | 44  | 3    |
| 60021 | 2,1  | 12  | 44  | 3    |
| 60421 | 2,15 | 13  | 45  | 3    |
| 60022 | 2,2  | 13  | 45  | 3    |
| 60422 | 2,25 | 13  | 45  | 3    |
| 60023 | 2,3  | 13  | 45  | 3    |
| 60423 | 2,35 | 13  | 45  | 3    |
| 60024 | 2,4  | 14  | 46  | 3    |
| 60424 | 2,45 | 14  | 46  | 3    |
| 60025 | 2,5  | 14  | 46  | 3    |
| 60425 | 2,55 | 14  | 46  | 3    |
| 60026 | 2,6  | 14  | 46  | 3    |
| 60426 | 2,65 | 14  | 46  | 3    |
| 60027 | 2,7  | 16  | 48  | 3    |
| 60427 | 2,75 | 16  | 48  | 3    |
| 60028 | 2,8  | 16  | 48  | 3    |
| 60428 | 2,85 | 16  | 48  | 3    |
| 60029 | 2,9  | 16  | 48  | 3    |
| 60429 | 2,95 | 16  | 48  | 3    |
| 60030 | 3    | 16  | 48  | 3    |
| 60430 | 3,05 | 18  | 50  | 4    |
| 60031 | 3,1  | 18  | 50  | 4    |
| 60431 | 3,15 | 18  | 50  | 4    |
| 60032 | 3,2  | 18  | 50  | 4    |
| 60432 | 3,25 | 18  | 50  | 4    |

| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60033 | 3,3  | 18  | 50  | 4    |
| 60433 | 3,35 | 18  | 50  | 4    |
| 60034 | 3,4  | 20  | 52  | 4    |
| 60434 | 3,45 | 20  | 52  | 4    |
| 60035 | 3,5  | 20  | 52  | 4    |
| 60435 | 3,55 | 20  | 52  | 4    |
| 60036 | 3,6  | 20  | 52  | 4    |
| 60436 | 3,65 | 20  | 52  | 4    |
| 60037 | 3,7  | 20  | 52  | 4    |
| 60437 | 3,75 | 20  | 52  | 4    |
| 60038 | 3,8  | 22  | 54  | 4    |
| 60438 | 3,85 | 22  | 54  | 4    |
| 60039 | 3,9  | 22  | 54  | 4    |
| 60439 | 3,95 | 22  | 54  | 4    |
| 60040 | 4    | 22  | 54  | 4    |
| 60440 | 4,05 | 22  | 66  | 6    |
| 60041 | 4,1  | 22  | 66  | 6    |
| 60441 | 4,15 | 22  | 66  | 6    |
| 60042 | 4,2  | 22  | 66  | 6    |
| 60442 | 4,25 | 22  | 66  | 6    |
| 60043 | 4,3  | 24  | 68  | 6    |
| 60443 | 4,35 | 24  | 68  | 6    |
| 60044 | 4,4  | 24  | 68  | 6    |
| 60444 | 4,45 | 24  | 68  | 6    |
| 60045 | 4,5  | 24  | 68  | 6    |
| 60445 | 4,55 | 24  | 68  | 6    |
| 60046 | 4,6  | 24  | 68  | 6    |
| 60446 | 4,65 | 24  | 68  | 6    |
| 60047 | 4,7  | 24  | 68  | 6    |
| 60447 | 4,75 | 24  | 68  | 6    |
| 60048 | 4,8  | 26  | 70  | 6    |
| 60448 | 4,85 | 26  | 70  | 6    |
| 60049 | 4,9  | 26  | 70  | 6    |
| 60449 | 4,95 | 26  | 70  | 6    |
| 60050 | 5    | 26  | 70  | 6    |
| 60450 | 5,05 | 26  | 70  | 6    |
| 60051 | 5,1  | 26  | 70  | 6    |
| 60451 | 5,15 | 26  | 70  | 6    |
| 60052 | 5,2  | 26  | 70  | 6    |
| 60452 | 5,25 | 26  | 70  | 6    |
| 60053 | 5,3  | 26  | 70  | 6    |
| 60453 | 5,35 | 28  | 72  | 6    |
| 60054 | 5,4  | 28  | 72  | 6    |
| 60454 | 5,45 | 28  | 72  | 6    |
| 60055 | 5,5  | 28  | 72  | 6    |
| 60455 | 5,55 | 28  | 72  | 6    |

Drilling | HSS

3xD





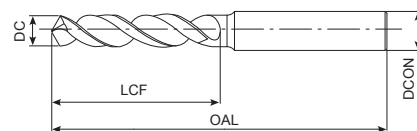
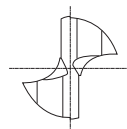
- HSSE drill with TiN coating
- Up to 3xD
- General purpose
- 193 sizes



| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60056 | 5,6  | 28  | 72  | 6    |
| 60456 | 5,65 | 28  | 72  | 6    |
| 60057 | 5,7  | 28  | 72  | 6    |
| 60457 | 5,75 | 28  | 72  | 6    |
| 60058 | 5,8  | 28  | 72  | 6    |
| 60458 | 5,85 | 28  | 72  | 6    |
| 60059 | 5,9  | 28  | 72  | 6    |
| 60459 | 5,95 | 28  | 72  | 6    |
| 60060 | 6    | 28  | 72  | 6    |
| 60061 | 6,1  | 31  | 75  | 8    |
| 60062 | 6,2  | 31  | 75  | 8    |
| 60063 | 6,3  | 31  | 75  | 8    |
| 60064 | 6,4  | 31  | 75  | 8    |
| 60065 | 6,5  | 31  | 75  | 8    |
| 60465 | 6,55 | 31  | 75  | 8    |
| 60066 | 6,6  | 31  | 75  | 8    |
| 60466 | 6,65 | 31  | 75  | 8    |
| 60067 | 6,7  | 31  | 75  | 8    |
| 60068 | 6,8  | 34  | 78  | 8    |
| 60069 | 6,9  | 34  | 78  | 8    |
| 60070 | 7    | 34  | 78  | 8    |
| 60071 | 7,1  | 34  | 78  | 8    |
| 60072 | 7,2  | 34  | 78  | 8    |
| 60073 | 7,3  | 34  | 78  | 8    |
| 60473 | 7,35 | 34  | 78  | 8    |
| 60074 | 7,4  | 34  | 78  | 8    |
| 60075 | 7,5  | 34  | 78  | 8    |
| 60475 | 7,55 | 37  | 81  | 8    |
| 60076 | 7,6  | 37  | 81  | 8    |
| 60476 | 7,65 | 37  | 81  | 8    |
| 60077 | 7,7  | 37  | 81  | 8    |
| 60078 | 7,8  | 37  | 81  | 8    |
| 60079 | 7,9  | 37  | 81  | 8    |
| 60080 | 8    | 37  | 81  | 8    |
| 60081 | 8,1  | 37  | 87  | 10   |
| 60082 | 8,2  | 37  | 87  | 10   |
| 60083 | 8,3  | 37  | 87  | 10   |
| 60483 | 8,35 | 37  | 87  | 10   |
| 60084 | 8,4  | 37  | 87  | 10   |
| 60085 | 8,5  | 37  | 87  | 10   |
| 60485 | 8,55 | 40  | 90  | 10   |
| 60086 | 8,6  | 40  | 90  | 10   |
| 60486 | 8,65 | 40  | 90  | 10   |
| 60087 | 8,7  | 40  | 90  | 10   |
| 60088 | 8,8  | 40  | 90  | 10   |
| 60089 | 8,9  | 40  | 90  | 10   |

| EDP   | DC    | LCF | OAL | DCON |
|-------|-------|-----|-----|------|
| 60090 | 9     | 40  | 90  | 10   |
| 60091 | 9,1   | 40  | 90  | 10   |
| 60092 | 9,2   | 40  | 90  | 10   |
| 60492 | 9,25  | 40  | 90  | 10   |
| 60093 | 9,3   | 40  | 90  | 10   |
| 60493 | 9,35  | 40  | 90  | 10   |
| 60094 | 9,4   | 40  | 90  | 10   |
| 60494 | 9,45  | 40  | 90  | 10   |
| 60095 | 9,5   | 40  | 90  | 10   |
| 60495 | 9,55  | 43  | 93  | 10   |
| 60096 | 9,6   | 43  | 93  | 10   |
| 60496 | 9,65  | 43  | 93  | 10   |
| 60097 | 9,7   | 43  | 93  | 10   |
| 60098 | 9,8   | 43  | 93  | 10   |
| 60099 | 9,9   | 43  | 93  | 10   |
| 60499 | 9,95  | 43  | 93  | 10   |
| 60100 | 10    | 43  | 93  | 10   |
| 60101 | 10,1  | 43  | 100 | 12   |
| 60102 | 10,2  | 43  | 100 | 12   |
| 62002 | 10,25 | 43  | 100 | 12   |
| 60103 | 10,3  | 43  | 100 | 12   |
| 62003 | 10,35 | 43  | 100 | 12   |
| 60104 | 10,4  | 43  | 100 | 12   |
| 60105 | 10,5  | 43  | 100 | 12   |
| 62005 | 10,55 | 43  | 100 | 12   |
| 60106 | 10,6  | 43  | 100 | 12   |
| 62006 | 10,65 | 47  | 104 | 12   |
| 60107 | 10,7  | 47  | 104 | 12   |
| 60108 | 10,8  | 47  | 104 | 12   |
| 60109 | 10,9  | 47  | 104 | 12   |
| 62009 | 10,95 | 47  | 104 | 12   |
| 60110 | 11    | 47  | 104 | 12   |
| 60111 | 11,1  | 47  | 104 | 12   |
| 60112 | 11,2  | 47  | 104 | 12   |
| 62012 | 11,25 | 47  | 104 | 12   |
| 60113 | 11,3  | 47  | 104 | 12   |
| 62013 | 11,35 | 47  | 104 | 12   |
| 60114 | 11,4  | 47  | 104 | 12   |
| 60115 | 11,5  | 47  | 104 | 12   |
| 62015 | 11,55 | 47  | 104 | 12   |
| 60116 | 11,6  | 47  | 104 | 12   |
| 60117 | 11,7  | 47  | 104 | 12   |
| 60118 | 11,8  | 47  | 104 | 12   |
| 60119 | 11,9  | 51  | 108 | 12   |
| 60120 | 12    | 51  | 108 | 12   |
| 60121 | 12,1  | 51  | 108 | 12   |

## Drilling | HSS | 3xD

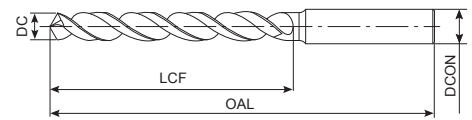
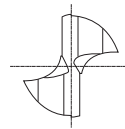


- |            |                |            |            |            |            |            |            |            |            |
|------------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>P</b> ○ | <b>P</b> ●     | <b>P</b> ● | <b>P</b> ● | <b>K</b> ● | <b>K</b> ○ | <b>N</b> ○ | <b>S</b> ○ | <b>H</b> ● | <b>H</b> ● |
| C < 0,2%   | 0,25 < C < 0,4 | C ≥ 0,45%  | SCM        | GG         | GGG        | AC, ADC    | Ni         | 25-35 HRC  | 35-45 HRC  |

[illegible]

# EX-GDR

Drilling | HSS | 5xD



- HSSE drill with TiN coating
- Up to 5xD
- General purpose
- 249 sizes



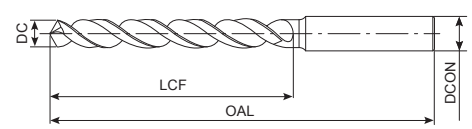
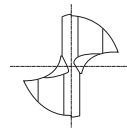
| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60520 | 2    | 24  | 56  | 3    |
| 62120 | 2,05 | 24  | 56  | 3    |
| 60521 | 2,1  | 24  | 56  | 3    |
| 62121 | 2,15 | 27  | 59  | 3    |
| 60522 | 2,2  | 27  | 59  | 3    |
| 62122 | 2,25 | 27  | 59  | 3    |
| 60523 | 2,3  | 27  | 59  | 3    |
| 62123 | 2,35 | 27  | 59  | 3    |
| 60524 | 2,4  | 30  | 62  | 3    |
| 62124 | 2,45 | 30  | 62  | 3    |
| 60525 | 2,5  | 30  | 62  | 3    |
| 62125 | 2,55 | 30  | 62  | 3    |
| 60526 | 2,6  | 30  | 62  | 3    |
| 62126 | 2,65 | 30  | 62  | 3    |
| 60527 | 2,7  | 33  | 65  | 3    |
| 62127 | 2,75 | 33  | 65  | 3    |
| 60528 | 2,8  | 33  | 65  | 3    |
| 62128 | 2,85 | 33  | 65  | 3    |
| 60529 | 2,9  | 33  | 65  | 3    |
| 62129 | 2,95 | 33  | 65  | 3    |
| 60530 | 3    | 33  | 65  | 3    |
| 62130 | 3,05 | 36  | 68  | 4    |
| 60531 | 3,1  | 36  | 68  | 4    |
| 62131 | 3,15 | 36  | 68  | 4    |
| 60532 | 3,2  | 36  | 68  | 4    |
| 62132 | 3,25 | 36  | 68  | 4    |
| 60533 | 3,3  | 36  | 68  | 4    |
| 62133 | 3,35 | 36  | 68  | 4    |
| 60534 | 3,4  | 39  | 71  | 4    |
| 62134 | 3,45 | 39  | 71  | 4    |
| 60535 | 3,5  | 39  | 71  | 4    |
| 62135 | 3,55 | 39  | 71  | 4    |
| 60536 | 3,6  | 39  | 71  | 4    |
| 62136 | 3,65 | 39  | 71  | 4    |
| 60537 | 3,7  | 39  | 71  | 4    |
| 62137 | 3,75 | 39  | 71  | 4    |
| 60538 | 3,8  | 43  | 75  | 4    |
| 62138 | 3,85 | 43  | 75  | 4    |
| 60539 | 3,9  | 43  | 75  | 4    |
| 62139 | 3,95 | 43  | 75  | 4    |
| 60540 | 4    | 43  | 75  | 4    |
| 62140 | 4,05 | 43  | 87  | 6    |
| 60541 | 4,1  | 43  | 87  | 6    |
| 62141 | 4,15 | 43  | 87  | 6    |
| 60542 | 4,2  | 43  | 87  | 6    |
| 62142 | 4,25 | 43  | 87  | 6    |

| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60543 | 4,3  | 47  | 91  | 6    |
| 62143 | 4,35 | 47  | 91  | 6    |
| 60544 | 4,4  | 47  | 91  | 6    |
| 62144 | 4,45 | 47  | 91  | 6    |
| 60545 | 4,5  | 47  | 91  | 6    |
| 62145 | 4,55 | 47  | 91  | 6    |
| 60546 | 4,6  | 47  | 91  | 6    |
| 62146 | 4,65 | 47  | 91  | 6    |
| 60547 | 4,7  | 47  | 91  | 6    |
| 62147 | 4,75 | 47  | 91  | 6    |
| 60548 | 4,8  | 52  | 96  | 6    |
| 62148 | 4,85 | 52  | 96  | 6    |
| 60549 | 4,9  | 52  | 96  | 6    |
| 62149 | 4,95 | 52  | 96  | 6    |
| 60550 | 5    | 52  | 96  | 6    |
| 62150 | 5,05 | 52  | 96  | 6    |
| 60551 | 5,1  | 52  | 96  | 6    |
| 62151 | 5,15 | 52  | 96  | 6    |
| 60552 | 5,2  | 52  | 96  | 6    |
| 62152 | 5,25 | 52  | 96  | 6    |
| 60553 | 5,3  | 52  | 96  | 6    |
| 62153 | 5,35 | 57  | 101 | 6    |
| 60554 | 5,4  | 57  | 101 | 6    |
| 62154 | 5,45 | 57  | 101 | 6    |
| 60555 | 5,5  | 57  | 101 | 6    |
| 62155 | 5,55 | 57  | 101 | 6    |
| 60556 | 5,6  | 57  | 101 | 6    |
| 62156 | 5,65 | 57  | 101 | 6    |
| 60557 | 5,7  | 57  | 101 | 6    |
| 62157 | 5,75 | 57  | 101 | 6    |
| 60558 | 5,8  | 57  | 101 | 6    |
| 62158 | 5,85 | 57  | 101 | 6    |
| 60559 | 5,9  | 57  | 101 | 6    |
| 62159 | 5,95 | 57  | 101 | 6    |
| 60560 | 6    | 57  | 101 | 6    |
| 62160 | 6,05 | 63  | 107 | 8    |
| 60561 | 6,1  | 63  | 107 | 8    |
| 62161 | 6,15 | 63  | 107 | 8    |
| 60562 | 6,2  | 63  | 107 | 8    |
| 62162 | 6,25 | 63  | 107 | 8    |
| 60563 | 6,3  | 63  | 107 | 8    |
| 62163 | 6,35 | 63  | 107 | 8    |
| 60564 | 6,4  | 63  | 107 | 8    |
| 62164 | 6,45 | 63  | 107 | 8    |
| 60565 | 6,5  | 63  | 107 | 8    |
| 62165 | 6,55 | 63  | 107 | 8    |



# EX-GDR

Drilling | HSS | 5xD



- HSSE drill with TiN coating
- Up to 5xD
- General purpose
- 249 sizes



Drilling | HSS

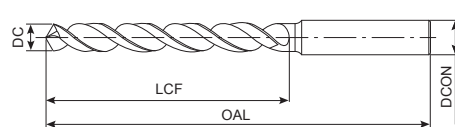
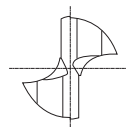
5xD

| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60566 | 6,6  | 63  | 107 | 8    |
| 62166 | 6,65 | 63  | 107 | 8    |
| 60567 | 6,7  | 63  | 107 | 8    |
| 62167 | 6,75 | 69  | 113 | 8    |
| 60568 | 6,8  | 69  | 113 | 8    |
| 62168 | 6,85 | 69  | 113 | 8    |
| 60569 | 6,9  | 69  | 113 | 8    |
| 62169 | 6,95 | 69  | 113 | 8    |
| 60570 | 7    | 69  | 113 | 8    |
| 62170 | 7,05 | 69  | 113 | 8    |
| 60571 | 7,1  | 69  | 113 | 8    |
| 62171 | 7,15 | 69  | 113 | 8    |
| 60572 | 7,2  | 69  | 113 | 8    |
| 62172 | 7,25 | 69  | 113 | 8    |
| 60573 | 7,3  | 69  | 113 | 8    |
| 62173 | 7,35 | 69  | 113 | 8    |
| 60574 | 7,4  | 69  | 113 | 8    |
| 62174 | 7,45 | 69  | 113 | 8    |
| 60575 | 7,5  | 69  | 113 | 8    |
| 62175 | 7,55 | 75  | 119 | 8    |
| 60576 | 7,6  | 75  | 119 | 8    |
| 62176 | 7,65 | 75  | 119 | 8    |
| 60577 | 7,7  | 75  | 119 | 8    |
| 62177 | 7,75 | 75  | 119 | 8    |
| 60578 | 7,8  | 75  | 119 | 8    |
| 62178 | 7,85 | 75  | 119 | 8    |
| 60579 | 7,9  | 75  | 119 | 8    |
| 62179 | 7,95 | 75  | 119 | 8    |
| 60580 | 8    | 75  | 119 | 8    |
| 62180 | 8,05 | 75  | 125 | 10   |
| 60581 | 8,1  | 75  | 125 | 10   |
| 62181 | 8,15 | 75  | 125 | 10   |
| 60582 | 8,2  | 75  | 125 | 10   |
| 62182 | 8,25 | 75  | 125 | 10   |
| 60583 | 8,3  | 75  | 125 | 10   |
| 62183 | 8,35 | 75  | 125 | 10   |
| 60584 | 8,4  | 75  | 125 | 10   |
| 62184 | 8,45 | 75  | 125 | 10   |
| 60585 | 8,5  | 75  | 125 | 10   |
| 62185 | 8,55 | 81  | 131 | 10   |
| 60586 | 8,6  | 81  | 131 | 10   |
| 62186 | 8,65 | 81  | 131 | 10   |
| 60587 | 8,7  | 81  | 131 | 10   |
| 62187 | 8,75 | 81  | 131 | 10   |
| 60588 | 8,8  | 81  | 131 | 10   |
| 62188 | 8,85 | 81  | 131 | 10   |

| EDP   | DC    | LCF | OAL | DCON |
|-------|-------|-----|-----|------|
| 60589 | 8,9   | 81  | 131 | 10   |
| 62189 | 8,95  | 81  | 131 | 10   |
| 60590 | 9     | 81  | 131 | 10   |
| 62190 | 9,05  | 81  | 131 | 10   |
| 60591 | 9,1   | 81  | 131 | 10   |
| 62191 | 9,15  | 81  | 131 | 10   |
| 60592 | 9,2   | 81  | 131 | 10   |
| 62192 | 9,25  | 81  | 131 | 10   |
| 60593 | 9,3   | 81  | 131 | 10   |
| 62193 | 9,35  | 81  | 131 | 10   |
| 60594 | 9,4   | 81  | 131 | 10   |
| 62194 | 9,45  | 81  | 131 | 10   |
| 60595 | 9,5   | 81  | 131 | 10   |
| 62195 | 9,55  | 87  | 137 | 10   |
| 60596 | 9,6   | 87  | 137 | 10   |
| 62196 | 9,65  | 87  | 137 | 10   |
| 60597 | 9,7   | 87  | 137 | 10   |
| 62197 | 9,75  | 87  | 137 | 10   |
| 60598 | 9,8   | 87  | 137 | 10   |
| 62198 | 9,85  | 87  | 137 | 10   |
| 60599 | 9,9   | 87  | 137 | 10   |
| 62199 | 9,95  | 87  | 137 | 10   |
| 60600 | 10    | 87  | 137 | 10   |
| 62200 | 10,05 | 87  | 144 | 12   |
| 60601 | 10,1  | 87  | 144 | 12   |
| 62201 | 10,15 | 87  | 144 | 12   |
| 60602 | 10,2  | 87  | 144 | 12   |
| 62202 | 10,25 | 87  | 144 | 12   |
| 60603 | 10,3  | 87  | 144 | 12   |
| 62203 | 10,35 | 87  | 144 | 12   |
| 60604 | 10,4  | 87  | 144 | 12   |
| 62204 | 10,45 | 87  | 144 | 12   |
| 60605 | 10,5  | 87  | 144 | 12   |
| 62205 | 10,55 | 87  | 144 | 12   |
| 60606 | 10,6  | 87  | 144 | 12   |
| 62206 | 10,65 | 94  | 151 | 12   |
| 60607 | 10,7  | 94  | 151 | 12   |
| 62207 | 10,75 | 94  | 151 | 12   |
| 60608 | 10,8  | 94  | 151 | 12   |
| 62208 | 10,85 | 94  | 151 | 12   |
| 60609 | 10,9  | 94  | 151 | 12   |
| 62209 | 10,95 | 94  | 151 | 12   |
| 60610 | 11    | 94  | 151 | 12   |
| 62210 | 11,05 | 94  | 151 | 12   |
| 60611 | 11,1  | 94  | 151 | 12   |
| 62211 | 11,15 | 94  | 151 | 12   |

# EX-GDR

Drilling | HSS | 5xD



- HSSE drill with TiN coating
- Up to 5xD
- General purpose
- 249 sizes



| EDP   | DC    | LCF | OAL | DCON |
|-------|-------|-----|-----|------|
| 60612 | 11,2  | 94  | 151 | 12   |
| 62212 | 11,25 | 94  | 151 | 12   |
| 60613 | 11,3  | 94  | 151 | 12   |
| 62213 | 11,35 | 94  | 151 | 12   |
| 60614 | 11,4  | 94  | 151 | 12   |
| 62214 | 11,45 | 94  | 151 | 12   |
| 60615 | 11,5  | 94  | 151 | 12   |
| 62215 | 11,55 | 94  | 151 | 12   |
| 60616 | 11,6  | 94  | 151 | 12   |
| 62216 | 11,65 | 94  | 151 | 12   |
| 60617 | 11,7  | 94  | 151 | 12   |
| 62217 | 11,75 | 94  | 151 | 12   |
| 60618 | 11,8  | 94  | 151 | 12   |
| 62218 | 11,85 | 101 | 158 | 12   |
| 60619 | 11,9  | 101 | 158 | 12   |
| 62219 | 11,95 | 101 | 158 | 12   |
| 60620 | 12    | 101 | 158 | 12   |
| 60621 | 12,1  | 101 | 158 | 12   |
| 60622 | 12,2  | 101 | 158 | 12   |
| 60623 | 12,3  | 101 | 158 | 12   |
| 60624 | 12,4  | 101 | 158 | 12   |
| 60625 | 12,5  | 101 | 158 | 12   |
| 60626 | 12,6  | 101 | 158 | 12   |
| 60627 | 12,7  | 101 | 158 | 12   |
| 60628 | 12,8  | 101 | 158 | 12   |
| 60629 | 12,9  | 101 | 158 | 12   |
| 60630 | 13    | 101 | 158 | 12   |
| 60635 | 13,5  | 90  | 150 | 16   |
| 60640 | 14    | 90  | 150 | 16   |
| 60641 | 14,1  | 95  | 155 | 16   |
| 60645 | 14,5  | 95  | 155 | 16   |
| 60650 | 15    | 95  | 161 | 20   |
| 60655 | 15,5  | 100 | 166 | 20   |
| 60656 | 15,6  | 100 | 166 | 20   |
| 60660 | 16    | 100 | 166 | 20   |
| 60665 | 16,5  | 106 | 172 | 20   |
| 60670 | 17    | 106 | 172 | 20   |
| 60675 | 17,5  | 112 | 178 | 20   |
| 60676 | 17,6  | 112 | 178 | 20   |
| 60680 | 18    | 112 | 178 | 20   |
| 60685 | 18,5  | 118 | 184 | 20   |
| 60690 | 19    | 118 | 194 | 25   |
| 60695 | 19,5  | 125 | 201 | 25   |
| 60696 | 19,6  | 125 | 201 | 25   |
| 60700 | 20    | 125 | 201 | 25   |
| 60705 | 20,5  | 128 | 204 | 25   |

| EDP   | DC   | LCF | OAL | DCON |
|-------|------|-----|-----|------|
| 60710 | 21   | 128 | 204 | 25   |
| 60711 | 21,1 | 128 | 204 | 25   |
| 60715 | 21,5 | 132 | 208 | 25   |
| 60720 | 22   | 132 | 208 | 25   |
| 60725 | 22,5 | 136 | 212 | 25   |
| 60730 | 23   | 136 | 212 | 25   |
| 60735 | 23,5 | 136 | 212 | 25   |
| 60740 | 24   | 140 | 220 | 32   |
| 60745 | 24,5 | 140 | 220 | 32   |
| 60750 | 25   | 140 | 220 | 32   |
| 60755 | 25,5 | 145 | 225 | 32   |
| 60760 | 26   | 145 | 225 | 32   |
| 60765 | 26,5 | 145 | 225 | 32   |
| 60770 | 27   | 150 | 230 | 32   |
| 60780 | 28   | 150 | 230 | 32   |
| 60790 | 29   | 155 | 235 | 32   |
| 60800 | 30   | 155 | 235 | 32   |
| 60810 | 31   | 160 | 241 | 32   |
| 60820 | 32   | 165 | 245 | 32   |

Drilling | HSS

5xD

# CUTTING CONDITIONS

Drilling | Solid | Cutting conditions

## EX-SUS-GDS/EX-SUS-GDR

|    | SUS                            |                |                                 |                |                              |                |                                   |                | Al                        |                | AC                        |                | Cu                        |                | C≤0,2%                    |                |
|----|--------------------------------|----------------|---------------------------------|----------------|------------------------------|----------------|-----------------------------------|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|----------------|
|    | Austenitic<br>SUS304<br>SUS200 |                | Martensitic<br>SUS420<br>SUS440 |                | Ferritic<br>SUS430<br>SUS405 |                | Precipitation<br>SUS630<br>SUS631 |                | A5052 - 7075              |                | AC4C - ADC                |                | C1020 - 2600              |                | CK15 - St40<br>~500 N/mm² |                |
| Vc | 13 ~ 18 m/min                  |                | 15 ~ 20 m/min                   |                | 15 ~ 20 m/min                |                | 8 ~ 12 m/min                      |                | 32 ~ 63 m/min             |                | 63 ~ 100 m/min            |                | 25 ~ 50 m/min             |                | 32 ~ 40 m/min             |                |
| Ø  | S<br>(min <sup>-1</sup> )      | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )       | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )    | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )         | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> ) | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> ) | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> ) | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> ) | F<br>(mm/rev.) |
| 1  | 4.800                          | 0,02~0,04      | 5.550                           | 0,02~0,04      | 5.550                        | 0,01~0,03      | 3.200                             | 0,01~0,03      | 15.000                    | 0,02~0,06      | 25.000                    | 0,02~0,06      | 12.000                    | 0,01~0,03      | 10.000                    | 0,02~0,05      |
| 2  | 2.400                          | 0,05~0,07      | 2.850                           | 0,05~0,07      | 2.850                        | 0,03~0,05      | 1.600                             | 0,03~0,05      | 8.000                     | 0,04~0,12      | 10.000                    | 0,04~0,12      | 5.100                     | 0,04~0,06      | 5.700                     | 0,06~0,09      |
| 3  | 1.600                          | 0,06~0,09      | 1.900                           | 0,06~0,09      | 1.900                        | 0,04~0,06      | 1.100                             | 0,04~0,06      | 5.300                     | 0,06~0,18      | 6.700                     | 0,06~0,18      | 3.400                     | 0,06~0,09      | 3.850                     | 0,10~0,13      |
| 4  | 1.200                          | 0,08~0,12      | 1.450                           | 0,08~0,12      | 1.450                        | 0,06~0,08      | 800                               | 0,06~0,08      | 4.000                     | 0,08~0,24      | 6.400                     | 0,08~0,24      | 2.550                     | 0,08~0,11      | 2.900                     | 0,11~0,15      |
| 5  | 950                            | 0,10~0,15      | 1.150                           | 0,12~0,15      | 1.150                        | 0,08~0,10      | 650                               | 0,08~0,10      | 3.200                     | 0,10~0,30      | 5.000                     | 0,10~0,30      | 2.050                     | 0,10~0,13      | 2.260                     | 0,12~0,18      |
| 6  | 800                            | 0,12~0,18      | 950                             | 0,15~0,18      | 950                          | 0,09~0,12      | 550                               | 0,09~0,12      | 2.700                     | 0,12~0,36      | 4.200                     | 0,12~0,36      | 1.700                     | 0,12~0,15      | 1.900                     | 0,13~0,19      |
| 8  | 600                            | 0,16~0,24      | 720                             | 0,20~0,24      | 720                          | 0,12~0,16      | 400                               | 0,12~0,16      | 2.000                     | 0,16~0,45      | 3.200                     | 0,16~0,45      | 1.250                     | 0,16~0,20      | 1.400                     | 0,17~0,24      |
| 10 | 480                            | 0,20~0,28      | 570                             | 0,25~0,30      | 570                          | 0,15~0,20      | 320                               | 0,15~0,20      | 1.600                     | 0,20~0,55      | 2.500                     | 0,20~0,55      | 1.000                     | 0,20~0,25      | 1.120                     | 0,20~0,28      |
| 12 | 400                            | 0,24~0,34      | 480                             | 0,30~0,36      | 480                          | 0,18~0,24      | 280                               | 0,18~0,24      | 1.350                     | 0,24~0,66      | 2.100                     | 0,24~0,66      | 850                       | 0,24~0,30      | 950                       | 0,24~0,34      |
| 13 | 370                            | 0,26~0,36      | 440                             | 0,32~0,40      | 440                          | 0,20~0,26      | 250                               | 0,20~0,26      | 1.250                     | 0,25~0,72      | 2.000                     | 0,25~0,72      | 780                       | 0,26~0,32      | 880                       | 0,26~0,36      |
| 14 | 340                            | 0,28~0,39      | 410                             | 0,35~0,45      | 410                          | 0,21~0,30      | 225                               | 0,21~0,30      | 1.140                     | 0,27~0,74      | 1.850                     | 0,27~0,74      | 730                       | 0,26~0,34      | 820                       | 0,27~0,39      |
| 15 | 320                            | 0,29~0,40      | 380                             | 0,36~0,48      | 380                          | 0,22~0,31      | 210                               | 0,22~0,31      | 1.060                     | 0,29~0,80      | 1.700                     | 0,29~0,80      | 680                       | 0,26~0,36      | 760                       | 0,28~0,42      |
| 16 | 300                            | 0,30~0,43      | 355                             | 0,37~0,50      | 355                          | 0,23~0,32      | 200                               | 0,23~0,32      | 1.000                     | 0,30~0,83      | 1.600                     | 0,30~0,83      | 640                       | 0,27~0,37      | 720                       | 0,29~0,43      |
| 17 | 280                            | 0,31~0,45      | 335                             | 0,38~0,52      | 335                          | 0,24~0,34      | 185                               | 0,24~0,34      | 940                       | 0,31~0,88      | 1.500                     | 0,31~0,88      | 600                       | 0,28~0,39      | 675                       | 0,30~0,46      |
| 18 | 265                            | 0,32~0,47      | 320                             | 0,39~0,54      | 320                          | 0,25~0,36      | 175                               | 0,25~0,36      | 885                       | 0,32~0,94      | 1.450                     | 0,32~0,94      | 570                       | 0,29~0,41      | 640                       | 0,32~0,49      |
| 19 | 250                            | 0,33~0,48      | 300                             | 0,40~0,55      | 300                          | 0,25~0,38      | 170                               | 0,25~0,38      | 840                       | 0,34~0,97      | 1.350                     | 0,34~0,97      | 540                       | 0,30~0,43      | 600                       | 0,33~0,51      |
| 20 | 240                            | 0,34~0,50      | 285                             | 0,40~0,56      | 285                          | 0,26~0,40      | 160                               | 0,26~0,40      | 800                       | 0,36~1,00      | 1.300                     | 0,36~1,00      | 510                       | 0,30~0,44      | 570                       | 0,34~0,52      |

# CUTTING CONDITIONS

Drilling | Solid | Cutting conditions

## EX-GDS

|  | 1.05Low Carbon Steel-Mild steel<br>S15C-SS400<br>~500N/mm <sup>2</sup> |                | Carbon steel<br>S50c<br>500~700N/mm <sup>2</sup> |                | Alloy steel<br>SCM-SCr<br>710~900N/mm <sup>2</sup> |                | Special alloy steel-hardened steel |                |                                    |                |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------|--------------------------------------------------|----------------|----------------------------------------------------|----------------|------------------------------------|----------------|------------------------------------|----------------|
|                                                                                   |                                                                        |                |                                                  |                |                                                    |                | SKD61<br>~900N/mm <sup>2</sup>     |                | SKD11<br>900~1060N/mm <sup>2</sup> |                |
| Vc                                                                                | 32~40m/min                                                             |                | 22~30m/min                                       |                | 20~25m/min                                         |                | 10~16m/min                         |                | 8~12m/min                          |                |
| Ø                                                                                 | S<br>(min <sup>-1</sup> )                                              | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )                        | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )                          | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )          | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )          | F<br>(mm/rev.) |
| 1                                                                                 | 11.500                                                                 | 0,03~0,05      | 8.000                                            | 0,03~0,05      | 7.000                                              | 0,03~0,05      | 4.000                              | 0,03~0,05      | 3.200                              | 0,03~0,05      |
| 2                                                                                 | 5.700                                                                  | 0,06~0,09      | 4.000                                            | 0,06~0,09      | 3.500                                              | 0,06~0,09      | 2.000                              | 0,06~0,09      | 1.600                              | 0,06~0,09      |
| 3                                                                                 | 3.800                                                                  | 0,1~0,13       | 2.800                                            | 0,1~0,13       | 2.400                                              | 0,1~0,13       | 1.350                              | 0,1~0,13       | 1.060                              | 0,1~0,13       |
| 4                                                                                 | 2.900                                                                  | 0,11~0,15      | 2.100                                            | 0,11~0,15      | 1.800                                              | 0,11~0,15      | 1.000                              | 0,11~0,15      | 800                                | 0,11~0,15      |
| 5                                                                                 | 2.300                                                                  | 0,12~0,18      | 1.650                                            | 0,12~0,18      | 1.400                                              | 0,12~0,18      | 800                                | 0,12~0,18      | 640                                | 0,12~0,18      |
| 6                                                                                 | 1.900                                                                  | 0,13~0,19      | 1.400                                            | 0,13~0,19      | 1.200                                              | 0,13~0,19      | 660                                | 0,13~0,19      | 530                                | 0,13~0,19      |
| 7                                                                                 | 1.650                                                                  | 0,15~0,22      | 1.200                                            | 0,15~0,22      | 1.050                                              | 0,15~0,22      | 570                                | 0,15~0,22      | 450                                | 0,15~0,22      |
| 8                                                                                 | 1.400                                                                  | 0,17~0,24      | 1.050                                            | 0,17~0,24      | 920                                                | 0,17~0,24      | 500                                | 0,16~0,24      | 400                                | 0,17~0,24      |
| 9                                                                                 | 1.250                                                                  | 0,18~0,26      | 920                                              | 0,18~0,26      | 810                                                | 0,18~0,26      | 440                                | 0,18~0,26      | 350                                | 0,18~0,26      |
| 10                                                                                | 1.150                                                                  | 0,20~0,28      | 830                                              | 0,20~0,28      | 730                                                | 0,20~0,28      | 400                                | 0,20~0,28      | 230                                | 0,20~0,28      |
| 11                                                                                | 1.050                                                                  | 0,22~0,32      | 750                                              | 0,22~0,32      | 670                                                | 0,22~0,32      | 360                                | 0,22~0,31      | 300                                | 0,22~0,32      |
| 12                                                                                | 950                                                                    | 0,24~0,34      | 690                                              | 0,24~0,34      | 610                                                | 0,24~0,34      | 330                                | 0,24~0,34      | 270                                | 0,24~0,34      |
| 13                                                                                | 880                                                                    | 0,26~0,36      | 640                                              | 0,26~0,36      | 560                                                | 0,26~0,36      | 300                                | 0,26~0,36      | 250                                | 0,26~0,36      |

|  | Hardened steel             |                |                            |                | Inconel 718<br>38~43HRC   |                | Cast iron<br>FC250<br>~350N/mm² |                | Aluminium alloy casting<br>ADC-AC |                |
|-----------------------------------------------------------------------------------|----------------------------|----------------|----------------------------|----------------|---------------------------|----------------|---------------------------------|----------------|-----------------------------------|----------------|
|                                                                                   | 34~43HRC<br>1060~1400N/mm² |                | 43~48HRC<br>1400~1600N/mm² |                |                           |                |                                 |                |                                   |                |
| Vc                                                                                | 10~15m/min                 |                | 6~10m/min                  |                | 6~8m/min                  |                | 32~40m/min                      |                | 63~100m/min                       |                |
| Ø                                                                                 | S<br>(min <sup>-1</sup> )  | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )  | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> ) | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )       | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )         | F<br>(mm/rev.) |
| 1                                                                                 | 3.800                      | 0,01~0,03      | 2.500                      | 0,01~0,02      | 2.500                     | 0,01~0,02      | 10.000                          | 0,04~0,06      | 20.000                            | 0,06~0,09      |
| 2                                                                                 | 1.900                      | 0,02~0,05      | 1.250                      | 0,02~0,04      | 1.250                     | 0,02~0,04      | 5.700                           | 0,08~0,11      | 10.000                            | 0,12~0,18      |
| 3                                                                                 | 1.250                      | 0,03~0,08      | 850                        | 0,03~0,06      | 850                       | 0,03~0,06      | 3.800                           | 0,11~0,16      | 10.000                            | 0,18~0,26      |
| 4                                                                                 | 960                        | 0,04~0,1       | 640                        | 0,04~0,08      | 630                       | 0,04~0,08      | 2.900                           | 0,13~0,19      | 7.500                             | 0,24~0,34      |
| 5                                                                                 | 760                        | 0,05~0,13      | 510                        | 0,05~0,10      | 500                       | 0,05~0,10      | 2.300                           | 0,16~0,22      | 6.300                             | 0,28~0,40      |
| 6                                                                                 | 640                        | 0,06~0,15      | 430                        | 0,06~0,12      | 430                       | 0,06~0,12      | 1.900                           | 0,19~0,26      | 5.000                             | 0,34~0,48      |
| 7                                                                                 | 550                        | 0,07~0,18      | 360                        | 0,07~0,14      | 360                       | 0,07~0,14      | 1.650                           | 0,20~0,28      | 4.450                             | 0,36~0,50      |
| 8                                                                                 | 480                        | 0,08~0,20      | 320                        | 0,08~0,16      | 320                       | 0,08~0,16      | 1.450                           | 0,21~0,31      | 4.000                             | 0,38~0,53      |
| 9                                                                                 | 430                        | 0,09~0,23      | 280                        | 0,09~0,18      | 280                       | 0,09~0,18      | 1.270                           | 0,23~0,33      | 3.450                             | 0,41~0,58      |
| 10                                                                                | 380                        | 0,10~0,25      | 260                        | 0,10~0,20      | 260                       | 0,10~0,20      | 1.150                           | 0,25~0,35      | 3.150                             | 0,45~0,63      |
| 11                                                                                | 350                        | 0,11~0,28      | 230                        | 0,11~0,22      | 230                       | 0,11~0,22      | 1.050                           | 0,27~0,38      | 2.850                             | 0,48~0,69      |
| 12                                                                                | 320                        | 0,12~0,30      | 210                        | 0,12~0,24      | 210                       | 0,12~0,24      | 960                             | 0,30~0,42      | 2.650                             | 0,53~0,75      |
| 13                                                                                | 300                        | 0,13~0,32      | 200                        | 0,13~0,26      | 200                       | 0,13~0,26      | 880                             | 0,31~0,42      | 2.400                             | 0,56~0,79      |

## EX-GDR

|  | 1.05Low Carbon Steel-Mild steel<br>S15C-SS400<br>~500N/mm <sup>2</sup> |                | Carbon steel<br>S50c<br>500~700N/mm <sup>2</sup> |                | Alloy steel<br>SCM-SCr<br>710~900N/mm <sup>2</sup> |                | Special alloy steel-hardened steel |                |                                    |                | Cast iron<br>FC250<br>~350N/mm <sup>2</sup> |                | Aluminium alloy casting<br>ADC-AC |                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------|--------------------------------------------------|----------------|----------------------------------------------------|----------------|------------------------------------|----------------|------------------------------------|----------------|---------------------------------------------|----------------|-----------------------------------|----------------|
|                                                                                     |                                                                        |                |                                                  |                |                                                    |                | SKD61<br>~900N/mm <sup>2</sup>     |                | SKD11<br>900~1060N/mm <sup>2</sup> |                |                                             |                |                                   |                |
| Vc                                                                                  | 32~40m/min                                                             |                | 22~30m/min                                       |                | 20~25m/min                                         |                | 10~16m/min                         |                | 8~12m/min                          |                | 32~40m/min                                  |                | 63~100m/min                       |                |
| Ø                                                                                   | S<br>(min <sup>-1</sup> )                                              | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )                        | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )                          | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )          | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )          | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )                   | F<br>(mm/rev.) | S<br>(min <sup>-1</sup> )         | F<br>(mm/rev.) |
| 2                                                                                   | 5.700                                                                  | 0,06~0,09      | 4.000                                            | 0,06~0,09      | 3.500                                              | 0,06~0,09      | 1.900                              | 0,06~0,09      | 1.600                              | 0,06~0,09      | 5.700                                       | 0,08~0,11      | 10.000                            | 0,12~0,18      |
| 3                                                                                   | 3.850                                                                  | 0,1~0,13       | 2.800                                            | 0,1~0,13       | 2.400                                              | 0,1~0,13       | 1.320                              | 0,1~0,13       | 1.060                              | 0,1~0,13       | 3.850                                       | 0,11~0,16      | 10.000                            | 0,20~0,28      |
| 4                                                                                   | 2.900                                                                  | 0,11~0,15      | 2.100                                            | 0,11~0,15      | 1.800                                              | 0,11~0,15      | 950                                | 0,11~0,15      | 800                                | 0,11~0,15      | 2.900                                       | 0,13~0,19      | 7.500                             | 0,24~0,34      |
| 5                                                                                   | 2.260                                                                  | 0,12~0,18      | 1.600                                            | 0,12~0,18      | 1.400                                              | 0,12~0,18      | 750                                | 0,12~0,18      | 630                                | 0,12~0,18      | 2.260                                       | 0,16~0,22      | 6.300                             | 0,28~0,40      |
| 6                                                                                   | 1.900                                                                  | 0,13~0,19      | 1.320                                            | 0,13~0,19      | 1.180                                              | 0,13~0,19      | 630                                | 0,13~0,19      | 530                                | 0,13~0,19      | 1.900                                       | 0,19~0,26      | 5.000                             | 0,34~0,48      |
| 8                                                                                   | 1.400                                                                  | 0,17~0,24      | 1.000                                            | 0,17~0,24      | 900                                                | 0,17~0,24      | 480                                | 0,17~0,24      | 400                                | 0,17~0,24      | 1.400                                       | 0,21~0,30      | 4.000                             | 0,38~0,53      |
| 10                                                                                  | 1.120                                                                  | 0,20~0,28      | 800                                              | 0,20~0,28      | 710                                                | 0,20~0,28      | 380                                | 0,20~0,28      | 320                                | 0,20~0,28      | 1.120                                       | 0,25~0,35      | 3.150                             | 0,45~0,63      |
| 12                                                                                  | 950                                                                    | 0,24~0,34      | 670                                              | 0,24~0,34      | 600                                                | 0,24~0,34      | 320                                | 0,24~0,34      | 270                                | 0,24~0,34      | 950                                         | 0,30~0,42      | 2.650                             | 0,53~0,75      |
| 13                                                                                  | 880                                                                    | 0,26~0,36      | 610                                              | 0,26~0,36      | 540                                                | 0,26~0,36      | 290                                | 0,26~0,36      | 240                                | 0,26~0,36      | 880                                         | 0,31~0,42      | 2.400                             | 0,56~0,79      |
| 14                                                                                  | 820                                                                    | 0,28~0,39      | 570                                              | 0,28~0,39      | 500                                                | 0,28~0,39      | 270                                | 0,28~0,39      | 230                                | 0,28~0,39      | 820                                         | 0,32~0,44      | 2.250                             | 0,57~0,81      |
| 16                                                                                  | 720                                                                    | 0,30~0,43      | 500                                              | 0,30~0,43      | 440                                                | 0,30~0,43      | 240                                | 0,30~0,43      | 200                                | 0,30~0,43      | 720                                         | 0,34~0,46      | 1.950                             | 0,61~0,85      |
| 18                                                                                  | 640                                                                    | 0,34~0,49      | 440                                              | 0,34~0,49      | 390                                                | 0,34~0,49      | 210                                | 0,34~0,49      | 180                                | 0,34~0,49      | 640                                         | 0,36~0,50      | 1.750                             | 0,63~0,90      |
| 20                                                                                  | 570                                                                    | 0,36~0,50      | 400                                              | 0,36~0,50      | 350                                                | 0,36~0,50      | 190                                | 0,36~0,50      | 160                                | 0,36~0,50      | 570                                         | 0,40~0,56      | 1.550                             | 0,68~0,98      |
| 22                                                                                  | 520                                                                    | 0,40~0,55      | 360                                              | 0,40~0,55      | 320                                                | 0,40~0,55      | 170                                | 0,40~0,55      | 150                                | 0,40~0,55      | 520                                         | 0,42~0,59      | 1.400                             | 0,73~1,06      |
| 24                                                                                  | 480                                                                    | 0,41~0,60      | 330                                              | 0,41~0,60      | 290                                                | 0,41~0,60      | 160                                | 0,41~0,60      | 135                                | 0,41~0,60      | 480                                         | 0,46~0,65      | 1.300                             | 0,77~1,13      |
| 26                                                                                  | 440                                                                    | 0,42~0,65      | 310                                              | 0,42~0,65      | 270                                                | 0,42~0,65      | 150                                | 0,42~0,65      | 120                                | 0,42~0,65      | 440                                         | 0,47~0,68      | 1.200                             | 0,81~1,20      |
| 28                                                                                  | 410                                                                    | 0,45~0,70      | 290                                              | 0,45~0,70      | 250                                                | 0,45~0,70      | 140                                | 0,45~0,70      | 110                                | 0,45~0,70      | 410                                         | 0,50~0,73      | 1.100                             | 0,84~1,26      |
| 30                                                                                  | 380                                                                    | 0,48~0,75      | 270                                              | 0,48~0,75      | 230                                                | 0,48~0,75      | 130                                | 0,48~0,75      | 105                                | 0,48~0,75      | 380                                         | 0,54~0,78      | 1.000                             | 0,87~1,32      |
| 32                                                                                  | 360                                                                    | 0,51~0,80      | 250                                              | 0,51~0,80      | 220                                                | 0,51~0,80      | 120                                | 0,51~0,80      | 100                                | 0,51~0,80      | 360                                         | 0,58~0,83      | 950                               | 0,9~1,38       |



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