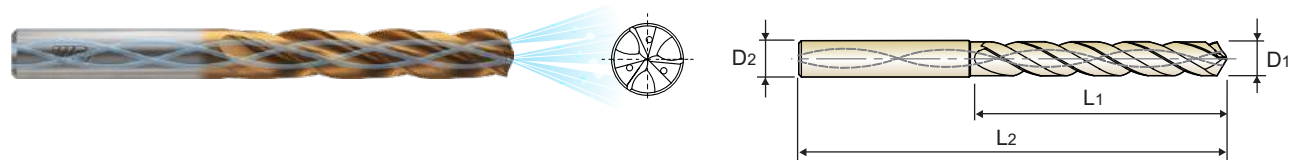


H-COATED SOLID CARBIDE DREAM DRILLS  
High Feed with Coolant Holes (5XD)

DGR495 SERIES

- Drilling for Carbon Steels, Alloy Steels(-HRc35) and Cast Iron
- Higher productivity due to 1.5 to 2 times faster feeding speed than 2-flute drill
- Multi-Layer coating delivers much better productivity and reliability
- Self centering and chip breaking by R-thinning and coolant holes



DIN 6537

CARBIDE

h6

m7

140°

20 bar

P. 48

LONG  
5 × D

| EDP No.   | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-----------|----------------|----------------|--------------|----------------|
|           | D1             | D2             | L1           | L2             |
| H-Coating |                |                |              |                |
| DGR495050 | 5.0            | 6              | 44           | 82             |
| DGR495051 | 5.1            | 6              | 44           | 82             |
| DGR495052 | 5.2            | 6              | 44           | 82             |
| DGR495053 | 5.3            | 6              | 44           | 82             |
| DGR495054 | 5.4            | 6              | 44           | 82             |
| DGR495055 | 5.5            | 6              | 44           | 82             |
| DGR495056 | 5.6            | 6              | 44           | 82             |
| DGR495057 | 5.7            | 6              | 44           | 82             |
| DGR495058 | 5.8            | 6              | 44           | 82             |
| DGR495059 | 5.9            | 6              | 44           | 82             |
| DGR495060 | 6.0            | 6              | 44           | 82             |
| DGR495061 | 6.1            | 8              | 53           | 91             |
| DGR495062 | 6.2            | 8              | 53           | 91             |
| DGR495063 | 6.3            | 8              | 53           | 91             |
| DGR495064 | 6.4            | 8              | 53           | 91             |
| DGR495065 | 6.5            | 8              | 53           | 91             |
| DGR495066 | 6.6            | 8              | 53           | 91             |
| DGR495067 | 6.7            | 8              | 53           | 91             |
| DGR495068 | 6.8            | 8              | 53           | 91             |
| DGR495069 | 6.9            | 8              | 53           | 91             |
| DGR495070 | 7.0            | 8              | 53           | 91             |
| DGR495071 | 7.1            | 8              | 53           | 91             |
| DGR495072 | 7.2            | 8              | 53           | 91             |
| DGR495073 | 7.3            | 8              | 53           | 91             |

| EDP No.   | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-----------|----------------|----------------|--------------|----------------|
|           | D1             | D2             | L1           | L2             |
| H-Coating |                |                |              |                |
| DGR495074 | 7.4            | 8              | 53           | 91             |
| DGR495075 | 7.5            | 8              | 53           | 91             |
| DGR495076 | 7.6            | 8              | 53           | 91             |
| DGR495077 | 7.7            | 8              | 53           | 91             |
| DGR495078 | 7.8            | 8              | 53           | 91             |
| DGR495079 | 7.9            | 8              | 53           | 91             |
| DGR495080 | 8.0            | 8              | 53           | 91             |
| DGR495081 | 8.1            | 10             | 61           | 103            |
| DGR495082 | 8.2            | 10             | 61           | 103            |
| DGR495083 | 8.3            | 10             | 61           | 103            |
| DGR495084 | 8.4            | 10             | 61           | 103            |
| DGR495085 | 8.5            | 10             | 61           | 103            |
| DGR495086 | 8.6            | 10             | 61           | 103            |
| DGR495087 | 8.7            | 10             | 61           | 103            |
| DGR495088 | 8.8            | 10             | 61           | 103            |
| DGR495089 | 8.9            | 10             | 61           | 103            |
| DGR495090 | 9.0            | 10             | 61           | 103            |
| DGR495091 | 9.1            | 10             | 61           | 103            |
| DGR495092 | 9.2            | 10             | 61           | 103            |
| DGR495093 | 9.3            | 10             | 61           | 103            |
| DGR495094 | 9.4            | 10             | 61           | 103            |
| DGR495095 | 9.5            | 10             | 61           | 103            |
| DGR495096 | 9.6            | 10             | 61           | 103            |
| DGR495097 | 9.7            | 10             | 61           | 103            |

► Other shank types are available on your request.

► NEXT PAGE

|                      |                        |     |                        |     |     |                                           |     |     |                        |                                    |                             |                 |     |     |                 |        |                   |     |                     | ◎ : Excellent   ○ : Good |                    |  |  |
|----------------------|------------------------|-----|------------------------|-----|-----|-------------------------------------------|-----|-----|------------------------|------------------------------------|-----------------------------|-----------------|-----|-----|-----------------|--------|-------------------|-----|---------------------|--------------------------|--------------------|--|--|
| ISO                  | P                      |     |                        |     |     |                                           |     |     |                        |                                    | M                           |                 |     |     | K               |        |                   |     |                     |                          |                    |  |  |
| Material Description | Non-alloy steel        |     |                        |     |     | Low alloy steel                           |     |     |                        | High alloyed steel, and tool steel |                             | Stainless steel |     |     | Grey cast iron  |        | Nodular cast iron |     | Malleable cast iron |                          |                    |  |  |
| VDI 3323             | 1                      | 2   | 3                      | 4   | 5   | 6                                         | 7   | 8   | 9                      | 10                                 | 11                          | 12              | 13  | 14  | 15              | 16     | 17                | 18  | 19                  | 20                       |                    |  |  |
| HRc                  |                        | 13  | 25                     | 28  | 32  | 10                                        | 29  | 32  | 38                     | 15                                 | 35                          | 15              | 23  | 10  | 10              | 26     | 3                 | 25  |                     | 21                       |                    |  |  |
| HB                   | 125                    | 190 | 250                    | 270 | 300 | 180                                       | 275 | 300 | 350                    | 200                                | 325                         | 200             | 240 | 180 | 180             | 260    | 160               | 250 | 130                 | 230                      |                    |  |  |
| Recommended          |                        | ◎   | ◎                      | ◎   | ○   | ◎                                         | ◎   | ○   | ○                      | ◎                                  | ○                           |                 |     |     | ◎               | ○      | ◎                 | ○   | ◎                   | ○                        |                    |  |  |
| ISO                  | N                      |     |                        |     |     |                                           |     |     |                        |                                    | S                           |                 |     |     |                 |        | H                 |     |                     |                          |                    |  |  |
| Material Description | Aluminum-wrought alloy |     | Aluminum-cast, alloyed |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     | Non Metallic Materials |                                    | Heat Resistant Super Alloys |                 |     |     | Titanium Alloys |        | Hardened steel    |     | Chilled Cast Iron   |                          | Hardened Cast Iron |  |  |
| VDI 3323             | 21                     | 22  | 23                     | 24  | 25  | 26                                        | 27  | 28  | 29                     | 30                                 | 31                          | 32              | 33  | 34  | 35              | 36     | 37                | 38  | 39                  | 40                       | 41                 |  |  |
| HRc                  |                        |     |                        |     |     |                                           |     |     |                        |                                    | 15                          | 30              | 25  | 38  | 34              |        |                   | 55  | 60                  | 42                       | 55                 |  |  |
| HB                   | 60                     | 100 | 75                     | 90  | 130 | 110                                       | 90  | 100 |                        |                                    | 200                         | 280             | 250 | 350 | 320             | 400 Rm | 1050 Rm           | 550 | 630                 | 400                      | 550                |  |  |
| Recommended          |                        |     |                        |     |     |                                           |     |     |                        |                                    |                             |                 |     |     |                 |        |                   |     |                     |                          |                    |  |  |

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DIN 6537

CARBIDE

h6

m7

140°

20 bar

P. 48

LONG  
5 × D

| EDP No.   | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-----------|----------------|----------------|--------------|----------------|
|           | D1             | D2             | L1           | L2             |
| H-Coating |                |                |              |                |
| DGR495098 | 9.8            | 10             | 61           | 103            |
| DGR495099 | 9.9            | 10             | 61           | 103            |
| DGR495100 | 10.0           | 10             | 61           | 103            |
| DGR495101 | 10.1           | 12             | 71           | 118            |
| DGR495102 | 10.2           | 12             | 71           | 118            |
| DGR495103 | 10.3           | 12             | 71           | 118            |
| DGR495104 | 10.4           | 12             | 71           | 118            |
| DGR495105 | 10.5           | 12             | 71           | 118            |
| DGR495106 | 10.6           | 12             | 71           | 118            |
| DGR495107 | 10.7           | 12             | 71           | 118            |
| DGR495108 | 10.8           | 12             | 71           | 118            |
| DGR495109 | 10.9           | 12             | 71           | 118            |
| DGR495110 | 11.0           | 12             | 71           | 118            |
| DGR495111 | 11.1           | 12             | 71           | 118            |
| DGR495112 | 11.2           | 12             | 71           | 118            |
| DGR495113 | 11.3           | 12             | 71           | 118            |
| DGR495114 | 11.4           | 12             | 71           | 118            |
| DGR495115 | 11.5           | 12             | 71           | 118            |
| DGR495116 | 11.6           | 12             | 71           | 118            |
| DGR495117 | 11.7           | 12             | 71           | 118            |

| EDP No.   | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-----------|----------------|----------------|--------------|----------------|
|           | D1             | D2             | L1           | L2             |
| H-Coating |                |                |              |                |
| DGR495118 | 11.8           | 12             | 71           | 118            |
| DGR495119 | 11.9           | 12             | 71           | 118            |
| DGR495120 | 12.0           | 12             | 71           | 118            |
| DGR495125 | 12.5           | 14             | 77           | 124            |
| DGR495130 | 13.0           | 14             | 77           | 124            |
| DGR495135 | 13.5           | 14             | 77           | 124            |
| DGR495140 | 14.0           | 14             | 77           | 124            |
| DGR495145 | 14.5           | 16             | 83           | 133            |
| DGR495150 | 15.0           | 16             | 83           | 133            |
| DGR495155 | 15.5           | 16             | 83           | 133            |
| DGR495160 | 16.0           | 16             | 83           | 133            |
| DGR495165 | 16.5           | 18             | 93           | 143            |
| DGR495170 | 17.0           | 18             | 93           | 143            |
| DGR495175 | 17.5           | 18             | 93           | 143            |
| DGR495180 | 18.0           | 18             | 93           | 143            |
| DGR495185 | 18.5           | 20             | 101          | 153            |
| DGR495190 | 19.0           | 20             | 101          | 153            |
| DGR495195 | 19.5           | 20             | 101          | 153            |
| DGR495200 | 20.0           | 20             | 101          | 153            |

► Other shank types are available on your request.

|                      |                        |     |                        |     |     |                                           |     |     |                        |                                    |                             |                 |     |     |                |                 |                   |                |                     | ◎ : Excellent   ○ : Good |                    |  |  |
|----------------------|------------------------|-----|------------------------|-----|-----|-------------------------------------------|-----|-----|------------------------|------------------------------------|-----------------------------|-----------------|-----|-----|----------------|-----------------|-------------------|----------------|---------------------|--------------------------|--------------------|--|--|
| ISO                  | P                      |     |                        |     |     |                                           |     |     |                        |                                    | M                           |                 |     |     | K              |                 |                   |                |                     |                          |                    |  |  |
| Material Description | Non-alloy steel        |     |                        |     |     | Low alloy steel                           |     |     |                        | High alloyed steel, and tool steel |                             | Stainless steel |     |     | Grey cast iron |                 | Nodular cast iron |                | Malleable cast iron |                          |                    |  |  |
|                      | 1                      | 2   | 3                      | 4   | 5   | 6                                         | 7   | 8   | 9                      | 10                                 | 11                          | 12              | 13  | 14  | 15             | 16              | 17                | 18             | 19                  | 20                       |                    |  |  |
| VDI 3323             |                        |     |                        |     |     |                                           |     |     |                        |                                    |                             |                 |     |     |                |                 |                   |                |                     |                          |                    |  |  |
| HRc                  |                        | 13  | 25                     | 28  | 32  | 10                                        | 29  | 32  | 38                     | 15                                 | 35                          | 15              | 23  | 10  | 10             | 26              | 3                 | 25             |                     | 21                       |                    |  |  |
| HB                   | 125                    | 190 | 250                    | 270 | 300 | 180                                       | 275 | 300 | 350                    | 200                                | 325                         | 200             | 240 | 180 | 180            | 260             | 160               | 250            | 130                 | 230                      |                    |  |  |
| Recommended          | ◎                      | ◎   | ◎                      | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎                      | ◎                                  | ◎                           |                 |     |     | ◎              | ◎               | ◎                 | ◎              | ◎                   | ◎                        |                    |  |  |
| ISO                  | N                      |     |                        |     |     |                                           |     |     |                        |                                    | S                           |                 |     |     |                |                 |                   | H              |                     |                          |                    |  |  |
| Material Description | Aluminum-wrought alloy |     | Aluminum-cast, alloyed |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     | Non Metallic Materials |                                    | Heat Resistant Super Alloys |                 |     |     |                | Titanium Alloys |                   | Hardened steel |                     | Chilled Cast Iron        | Hardened Cast Iron |  |  |
|                      | 21                     | 22  | 23                     | 24  | 25  | 26                                        | 27  | 28  | 29                     | 30                                 | 31                          | 32              | 33  | 34  | 35             | 36              | 37                | 38             | 39                  | 40                       | 41                 |  |  |
| VDI 3323             |                        |     |                        |     |     |                                           |     |     |                        |                                    | 15                          | 30              | 25  | 38  | 34             | 36              | 37                | 55             | 60                  | 42                       | 55                 |  |  |
| HRc                  |                        |     |                        |     |     |                                           |     |     |                        |                                    |                             |                 |     |     |                |                 |                   |                |                     |                          |                    |  |  |
| HB                   | 60                     | 100 | 75                     | 90  | 130 | 110                                       | 90  | 100 |                        |                                    | 200                         | 280             | 250 | 350 | 320            | 400 Rm          | 1050 Rm           | 550            | 630                 | 400                      | 550                |  |  |
| Recommended          |                        |     |                        |     |     |                                           |     |     |                        |                                    |                             |                 |     |     |                |                 |                   |                |                     |                          |                    |  |  |