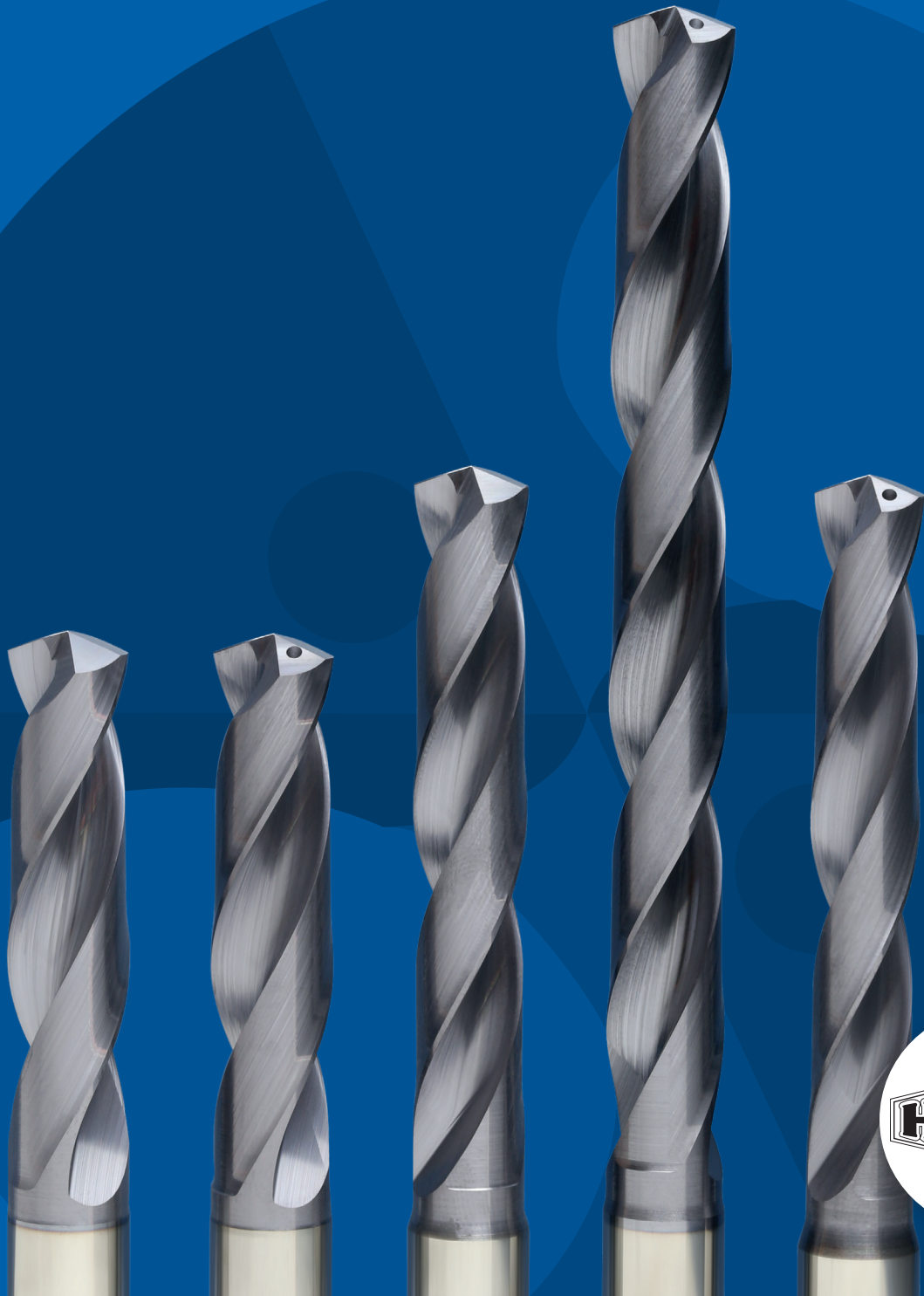




Carbide Drill Series

# HY-PRO

Volume 6.1



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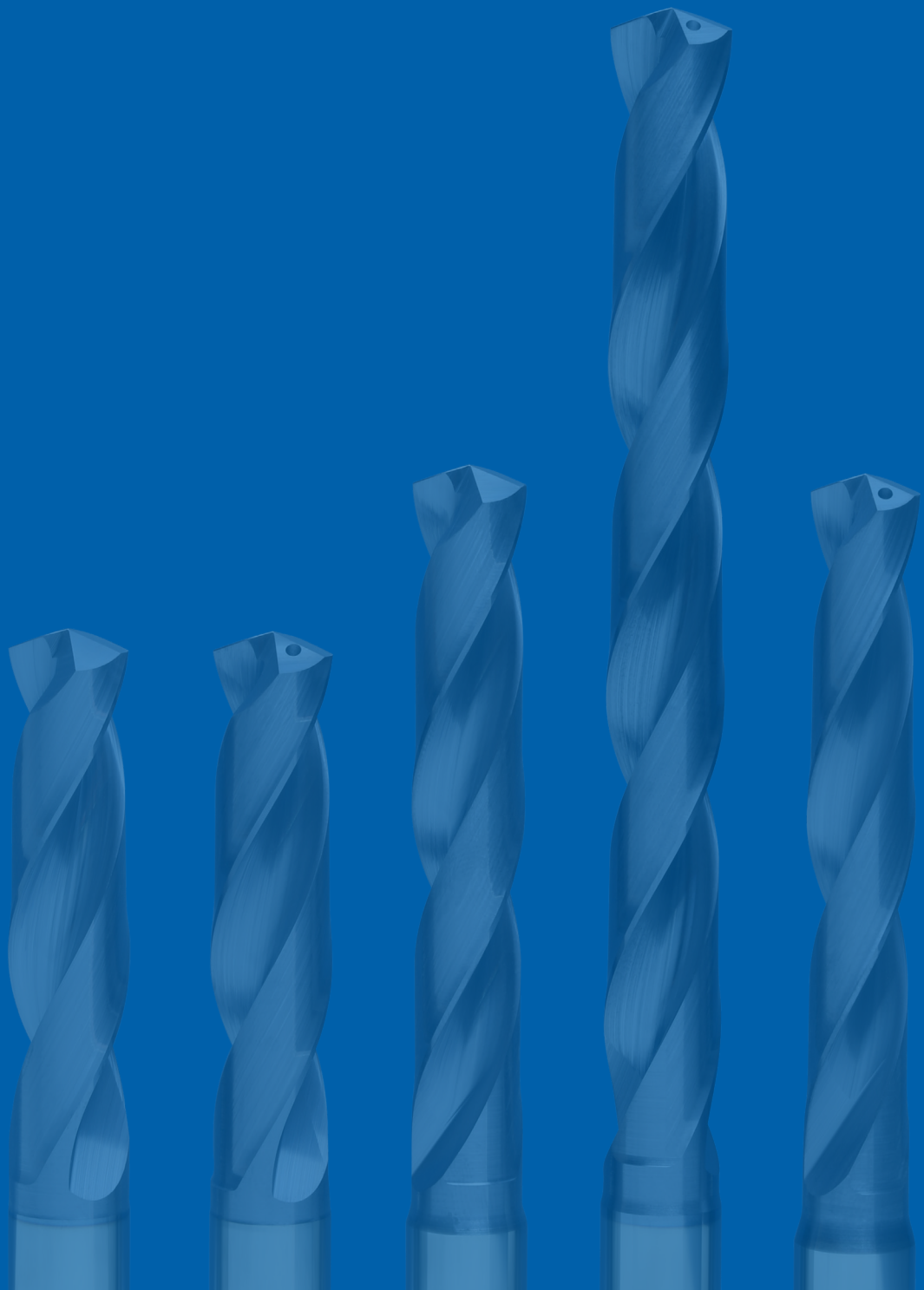
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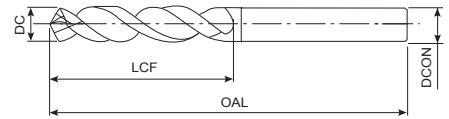
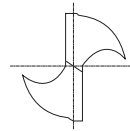
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# HYP-HP-3D

Drilling | Solid carbide | 3xD



- Carbide drill with EgiAs coating
- Up to 3xD
- General purpose
- 154 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |             |           |
|--|----------------|--------------|------------|-------------------|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|-------------|-----------|

Drilling | Solid carbide

3xD

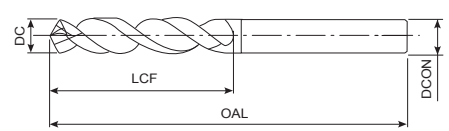
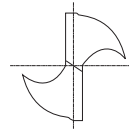
| EDP      | DC   | DC Inch | LCF | OAL | DCON |
|----------|------|---------|-----|-----|------|
| 30200100 | 1    | -       | 7   | 35  | 3    |
| 30200110 | 1,1  | -       | 7   | 35  | 3    |
| 30200120 | 1,2  | -       | 8   | 35  | 3    |
| 30200130 | 1,3  | -       | 8   | 35  | 3    |
| 30200140 | 1,4  | -       | 9   | 35  | 3    |
| 30200150 | 1,5  | -       | 9   | 40  | 3    |
| 30200160 | 1,6  | -       | 10  | 40  | 3    |
| 30200170 | 1,7  | -       | 10  | 40  | 3    |
| 30200180 | 1,8  | -       | 11  | 40  | 3    |
| 30200190 | 1,9  | -       | 11  | 40  | 3    |
| 30200200 | 2    | -       | 13  | 45  | 3    |
| 30200210 | 2,1  | -       | 13  | 45  | 3    |
| 30200220 | 2,2  | -       | 13  | 45  | 3    |
| 30200230 | 2,3  | -       | 13  | 45  | 3    |
| 30200240 | 2,4  | -       | 15  | 45  | 3    |
| 30200250 | 2,5  | -       | 15  | 50  | 3    |
| 30200260 | 2,6  | -       | 15  | 50  | 3    |
| 30200270 | 2,7  | -       | 17  | 50  | 3    |
| 30200280 | 2,8  | -       | 17  | 50  | 3    |
| 30200290 | 2,9  | -       | 17  | 50  | 3    |
| 30200300 | 3    | -       | 20  | 62  | 6    |
| 30200310 | 3,1  | -       | 20  | 62  | 6    |
| 30200317 | 3,17 | 1/8     | 20  | 62  | 6    |
| 30200320 | 3,2  | -       | 20  | 62  | 6    |
| 30200330 | 3,3  | -       | 20  | 62  | 6    |
| 30200340 | 3,4  | -       | 20  | 62  | 6    |
| 30200350 | 3,5  | -       | 20  | 62  | 6    |
| 30200357 | 3,57 | 9/64    | 20  | 62  | 6    |
| 30200360 | 3,6  | -       | 20  | 62  | 6    |
| 30200370 | 3,7  | -       | 20  | 62  | 6    |
| 30200380 | 3,8  | -       | 24  | 66  | 6    |
| 30200390 | 3,9  | -       | 24  | 66  | 6    |
| 30200397 | 3,97 | 5/32    | 24  | 66  | 6    |
| 30200400 | 4    | -       | 24  | 66  | 6    |
| 30200410 | 4,1  | -       | 24  | 66  | 6    |
| 30200420 | 4,2  | -       | 24  | 66  | 6    |
| 30200430 | 4,3  | -       | 24  | 66  | 6    |
| 30200437 | 4,37 | 11/64   | 24  | 66  | 6    |
| 30200440 | 4,4  | -       | 24  | 66  | 6    |
| 30200450 | 4,5  | -       | 24  | 66  | 6    |
| 30200460 | 4,6  | -       | 24  | 66  | 6    |
| 30200470 | 4,7  | -       | 24  | 66  | 6    |
| 30200476 | 4,76 | 3/16    | 24  | 66  | 6    |
| 30200480 | 4,8  | -       | 28  | 66  | 6    |
| 30200490 | 4,9  | -       | 28  | 66  | 6    |
| 30200500 | 5    | -       | 28  | 66  | 6    |

| EDP      | DC   | DC Inch | LCF | OAL | DCON |
|----------|------|---------|-----|-----|------|
| 30200510 | 5,1  | -       | 28  | 66  | 6    |
| 30200516 | 5,16 | 13/64   | 28  | 66  | 6    |
| 30200520 | 5,2  | -       | 28  | 66  | 6    |
| 30200530 | 5,3  | -       | 28  | 66  | 6    |
| 30200540 | 5,4  | -       | 28  | 66  | 6    |
| 30200550 | 5,5  | -       | 28  | 66  | 6    |
| 30200556 | 5,56 | 7/32    | 28  | 66  | 6    |
| 30200560 | 5,6  | -       | 28  | 66  | 6    |
| 30200570 | 5,7  | -       | 28  | 66  | 6    |
| 30200580 | 5,8  | -       | 28  | 66  | 6    |
| 30200590 | 5,9  | -       | 28  | 66  | 6    |
| 30200595 | 5,95 | 15/64   | 28  | 66  | 6    |
| 30200600 | 6    | -       | 28  | 66  | 6    |
| 30200610 | 6,1  | -       | 34  | 79  | 8    |
| 30200620 | 6,2  | -       | 34  | 79  | 8    |
| 30200630 | 6,3  | -       | 34  | 79  | 8    |
| 30200635 | 6,35 | 1/4     | 34  | 79  | 8    |
| 30200640 | 6,4  | -       | 34  | 79  | 8    |
| 30200650 | 6,5  | -       | 34  | 79  | 8    |
| 30200660 | 6,6  | -       | 34  | 79  | 8    |
| 30200670 | 6,7  | -       | 34  | 79  | 8    |
| 30200675 | 6,75 | 17/64   | 34  | 79  | 8    |
| 30200680 | 6,8  | -       | 34  | 79  | 8    |
| 30200690 | 6,9  | -       | 34  | 79  | 8    |
| 30200700 | 7    | -       | 34  | 79  | 8    |
| 30200710 | 7,1  | -       | 41  | 79  | 8    |
| 30200714 | 7,14 | 9/32    | 41  | 79  | 8    |
| 30200720 | 7,2  | -       | 41  | 79  | 8    |
| 30200730 | 7,3  | -       | 41  | 79  | 8    |
| 30200740 | 7,4  | -       | 41  | 79  | 8    |
| 30200750 | 7,5  | -       | 41  | 79  | 8    |
| 30200754 | 7,54 | 19/64   | 41  | 79  | 8    |
| 30200760 | 7,6  | -       | 41  | 79  | 8    |
| 30200770 | 7,7  | -       | 41  | 79  | 8    |
| 30200780 | 7,8  | -       | 41  | 79  | 8    |
| 30200790 | 7,9  | -       | 41  | 79  | 8    |
| 30200794 | 7,94 | 5/16    | 41  | 79  | 8    |
| 30200800 | 8    | -       | 41  | 79  | 8    |
| 30200810 | 8,1  | -       | 47  | 89  | 10   |
| 30200820 | 8,2  | -       | 47  | 89  | 10   |
| 30200830 | 8,3  | -       | 47  | 89  | 10   |
| 30200833 | 8,33 | 21/64   | 47  | 89  | 10   |
| 30200840 | 8,4  | -       | 47  | 89  | 10   |
| 30200850 | 8,5  | -       | 47  | 89  | 10   |
| 30200860 | 8,6  | -       | 47  | 89  | 10   |
| 30200870 | 8,7  | -       | 47  | 89  | 10   |



# HYP-HP-3D

Drilling | Solid carbide | 3xD



- Carbide drill with EgiAs coating
- Up to 3xD
- General purpose
- 154 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |             |           |
|--|----------------|--------------|------------|-------------------|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|-------------|-----------|

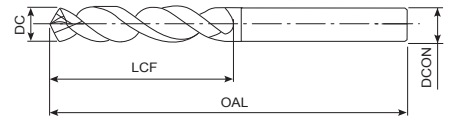
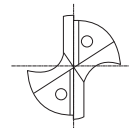
| EDP      | DC    | DC Inch | LCF | OAL | DCON |
|----------|-------|---------|-----|-----|------|
| 30200873 | 8,73  | 11/32   | 47  | 89  | 10   |
| 30200880 | 8,8   | -       | 47  | 89  | 10   |
| 30200890 | 8,9   | -       | 47  | 89  | 10   |
| 30200900 | 9     | -       | 47  | 89  | 10   |
| 30200910 | 9,1   | -       | 47  | 89  | 10   |
| 30200913 | 9,13  | 23/64   | 47  | 89  | 10   |
| 30200920 | 9,2   | -       | 47  | 89  | 10   |
| 30200930 | 9,3   | -       | 47  | 89  | 10   |
| 30200940 | 9,4   | -       | 47  | 89  | 10   |
| 30200950 | 9,5   | -       | 47  | 89  | 10   |
| 30200952 | 9,52  | 3/8     | 47  | 89  | 10   |
| 30200960 | 9,6   | -       | 47  | 89  | 10   |
| 30200970 | 9,7   | -       | 47  | 89  | 10   |
| 30200980 | 9,8   | -       | 47  | 89  | 10   |
| 30200990 | 9,9   | -       | 47  | 89  | 10   |
| 30200992 | 9,92  | 25/64   | 47  | 89  | 10   |
| 30201000 | 10    | -       | 47  | 89  | 10   |
| 30201010 | 10,1  | -       | 55  | 102 | 12   |
| 30201020 | 10,2  | -       | 55  | 102 | 12   |
| 30201030 | 10,3  | -       | 55  | 102 | 12   |
| 30201032 | 10,32 | 13/32   | 55  | 102 | 12   |
| 30201040 | 10,4  | -       | 55  | 102 | 12   |
| 30201050 | 10,5  | -       | 55  | 102 | 12   |
| 30201060 | 10,6  | -       | 55  | 102 | 12   |
| 30201070 | 10,7  | -       | 55  | 102 | 12   |
| 30201072 | 10,72 | 27/64   | 55  | 102 | 12   |
| 30201080 | 10,8  | -       | 55  | 102 | 12   |
| 30201090 | 10,9  | -       | 55  | 102 | 12   |
| 30201100 | 11    | -       | 55  | 102 | 12   |
| 30201110 | 11,1  | -       | 55  | 102 | 12   |
| 30201111 | 11,11 | 7/16    | 55  | 102 | 12   |
| 30201120 | 11,2  | -       | 55  | 102 | 12   |
| 30201130 | 11,3  | -       | 55  | 102 | 12   |
| 30201140 | 11,4  | -       | 55  | 102 | 12   |
| 30201150 | 11,5  | -       | 55  | 102 | 12   |
| 30201151 | 11,51 | 29/64   | 55  | 102 | 12   |
| 30201160 | 11,6  | -       | 55  | 102 | 12   |
| 30201170 | 11,7  | -       | 55  | 102 | 12   |
| 30201180 | 11,8  | -       | 55  | 102 | 12   |
| 30201190 | 11,9  | -       | 55  | 102 | 12   |
| 30201191 | 11,91 | 15/32   | 55  | 102 | 12   |
| 30201200 | 12    | -       | 55  | 102 | 12   |
| 30201230 | 12,3  | 31/64   | 60  | 107 | 14   |
| 30201250 | 12,5  | -       | 60  | 107 | 14   |
| 30201270 | 12,7  | 1/2     | 60  | 107 | 14   |
| 30201300 | 13    | -       | 60  | 107 | 14   |

| EDP      | DC    | DC Inch | LCF | OAL | DCON |
|----------|-------|---------|-----|-----|------|
| 30201350 | 13,5  | -       | 60  | 107 | 14   |
| 30201400 | 14    | -       | 60  | 107 | 14   |
| 30201429 | 14,29 | 9/16    | 65  | 115 | 16   |
| 30201450 | 14,5  | -       | 65  | 115 | 16   |
| 30201500 | 15    | -       | 65  | 115 | 16   |
| 30201550 | 15,5  | -       | 65  | 115 | 16   |
| 30201587 | 15,87 | 5/8     | 65  | 115 | 16   |
| 30201600 | 16    | -       | 65  | 115 | 16   |
| 30201650 | 16,5  | -       | 73  | 123 | 18   |
| 30201700 | 17    | -       | 73  | 123 | 18   |
| 30201750 | 17,5  | -       | 73  | 123 | 18   |
| 30201800 | 18    | -       | 73  | 123 | 18   |
| 30201850 | 18,5  | -       | 79  | 131 | 20   |
| 30201900 | 19    | -       | 79  | 131 | 20   |
| 30201950 | 19,5  | -       | 79  | 131 | 20   |
| 30202000 | 20    | -       | 79  | 131 | 20   |



# HYP-HPO-3D

Drilling | Solid carbide | 3xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 3xD
- General purpose
- 136 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |  |             |           |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> |  | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|

Drilling | Solid carbide

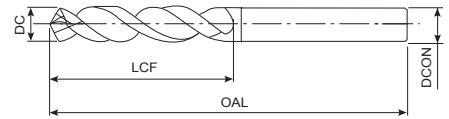
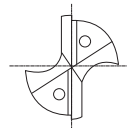
3xD

| EDP      | DC   | DC Inch | LCF | OAL | DCON | EDP      | DC   | DC Inch | LCF | OAL | DCON |
|----------|------|---------|-----|-----|------|----------|------|---------|-----|-----|------|
| 30210300 | 3    | -       | 20  | 62  | 6    | 30210650 | 6,5  | -       | 34  | 79  | 8    |
| 30210310 | 3,1  | -       | 20  | 62  | 6    | 30210660 | 6,6  | -       | 34  | 79  | 8    |
| 30210317 | 3,17 | 1/8     | 20  | 62  | 6    | 30210670 | 6,7  | -       | 34  | 79  | 8    |
| 30210320 | 3,2  | -       | 20  | 62  | 6    | 30210675 | 6,75 | 17/64   | 34  | 79  | 8    |
| 30210330 | 3,3  | -       | 20  | 62  | 6    | 30210680 | 6,8  | -       | 34  | 79  | 8    |
| 30210340 | 3,4  | -       | 20  | 62  | 6    | 30210690 | 6,9  | -       | 34  | 79  | 8    |
| 30210350 | 3,5  | -       | 20  | 62  | 6    | 30210700 | 7    | -       | 34  | 79  | 8    |
| 30210357 | 3,57 | 9/64    | 20  | 62  | 6    | 30210710 | 7,1  | -       | 41  | 79  | 8    |
| 30210360 | 3,6  | -       | 20  | 62  | 6    | 30210714 | 7,14 | 9/32    | 41  | 79  | 8    |
| 30210370 | 3,7  | -       | 20  | 62  | 6    | 30210720 | 7,2  | -       | 41  | 79  | 8    |
| 30210380 | 3,8  | -       | 24  | 66  | 6    | 30210730 | 7,3  | -       | 41  | 79  | 8    |
| 30210390 | 3,9  | -       | 24  | 66  | 6    | 30210740 | 7,4  | -       | 41  | 79  | 8    |
| 30210397 | 3,97 | 5/32    | 24  | 66  | 6    | 30210750 | 7,5  | -       | 41  | 79  | 8    |
| 30210400 | 4    | -       | 24  | 66  | 6    | 30210754 | 7,54 | 19/64   | 41  | 79  | 8    |
| 30210410 | 4,1  | -       | 24  | 66  | 6    | 30210760 | 7,6  | -       | 41  | 79  | 8    |
| 30210420 | 4,2  | -       | 24  | 66  | 6    | 30210770 | 7,7  | -       | 41  | 79  | 8    |
| 30210430 | 4,3  | -       | 24  | 66  | 6    | 30210780 | 7,8  | -       | 41  | 79  | 8    |
| 30210437 | 4,37 | 11/64   | 24  | 66  | 6    | 30210790 | 7,9  | -       | 41  | 79  | 8    |
| 30210440 | 4,4  | -       | 24  | 66  | 6    | 30210794 | 7,94 | 5/16    | 41  | 79  | 8    |
| 30210450 | 4,5  | -       | 24  | 66  | 6    | 30210800 | 8    | -       | 41  | 79  | 8    |
| 30210460 | 4,6  | -       | 24  | 66  | 6    | 30210810 | 8,1  | -       | 47  | 89  | 10   |
| 30210465 | 4,65 | -       | 24  | 66  | 6    | 30210820 | 8,2  | -       | 47  | 89  | 10   |
| 30210470 | 4,7  | -       | 24  | 66  | 6    | 30210830 | 8,3  | -       | 47  | 89  | 10   |
| 30210476 | 4,76 | 3/16    | 24  | 66  | 6    | 30210833 | 8,33 | 21/64   | 47  | 89  | 10   |
| 30210480 | 4,8  | -       | 28  | 66  | 6    | 30210840 | 8,4  | -       | 47  | 89  | 10   |
| 30210490 | 4,9  | -       | 28  | 66  | 6    | 30210850 | 8,5  | -       | 47  | 89  | 10   |
| 30210500 | 5    | -       | 28  | 66  | 6    | 30210860 | 8,6  | -       | 47  | 89  | 10   |
| 30210510 | 5,1  | -       | 28  | 66  | 6    | 30210870 | 8,7  | -       | 47  | 89  | 10   |
| 30210516 | 5,16 | 13/64   | 28  | 66  | 6    | 30210873 | 8,73 | 11/32   | 47  | 89  | 10   |
| 30210520 | 5,2  | -       | 28  | 66  | 6    | 30210880 | 8,8  | -       | 47  | 89  | 10   |
| 30210530 | 5,3  | -       | 28  | 66  | 6    | 30210890 | 8,9  | -       | 47  | 89  | 10   |
| 30210540 | 5,4  | -       | 28  | 66  | 6    | 30210900 | 9    | -       | 47  | 89  | 10   |
| 30210550 | 5,5  | -       | 28  | 66  | 6    | 30210910 | 9,1  | -       | 47  | 89  | 10   |
| 30210555 | 5,55 | -       | 28  | 66  | 6    | 30210913 | 9,13 | 23/64   | 47  | 89  | 10   |
| 30210556 | 5,56 | 7/32    | 28  | 66  | 6    | 30210920 | 9,2  | -       | 47  | 89  | 10   |
| 30210560 | 5,6  | -       | 28  | 66  | 6    | 30210930 | 9,3  | -       | 47  | 89  | 10   |
| 30210570 | 5,7  | -       | 28  | 66  | 6    | 30210940 | 9,4  | -       | 47  | 89  | 10   |
| 30210580 | 5,8  | -       | 28  | 66  | 6    | 30210950 | 9,5  | -       | 47  | 89  | 10   |
| 30210590 | 5,9  | -       | 28  | 66  | 6    | 30210952 | 9,52 | 3/8     | 47  | 89  | 10   |
| 30210595 | 5,95 | 15/64   | 28  | 66  | 6    | 30210960 | 9,6  | -       | 47  | 89  | 10   |
| 30210600 | 6    | -       | 28  | 66  | 6    | 30210970 | 9,7  | -       | 47  | 89  | 10   |
| 30210610 | 6,1  | -       | 34  | 79  | 8    | 30210980 | 9,8  | -       | 47  | 89  | 10   |
| 30210620 | 6,2  | -       | 34  | 79  | 8    | 30210990 | 9,9  | -       | 47  | 89  | 10   |
| 30210630 | 6,3  | -       | 34  | 79  | 8    | 30210992 | 9,92 | 25/64   | 47  | 89  | 10   |
| 30210635 | 6,35 | 1/4     | 34  | 79  | 8    | 30211000 | 10   | -       | 47  | 89  | 10   |
| 30210640 | 6,4  | -       | 34  | 79  | 8    | 30211010 | 10,1 | -       | 55  | 102 | 12   |



# HYP-HPO-3D-HE

Drilling | Solid carbide | 3xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 3xD
- With Whistle Notch shank for general purpose
- 134 sizes



Drilling | Solid carbide

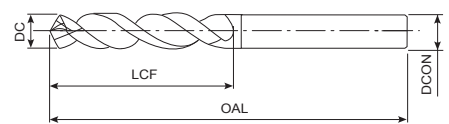
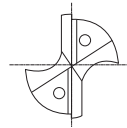
3xD

| EDP         | DC   | DC Inch | LCF | OAL | DCON | EDP         | DC   | DC Inch | LCF | OAL | DCON |
|-------------|------|---------|-----|-----|------|-------------|------|---------|-----|-----|------|
| 30210300-HE | 3    | -       | 20  | 62  | 6    | 30210670-HE | 6,7  | -       | 34  | 79  | 8    |
| 30210310-HE | 3,1  | -       | 20  | 62  | 6    | 30210675-HE | 6,75 | 17/64   | 34  | 79  | 8    |
| 30210317-HE | 3,17 | 1/8     | 20  | 62  | 6    | 30210680-HE | 6,8  | -       | 34  | 79  | 8    |
| 30210320-HE | 3,2  | -       | 20  | 62  | 6    | 30210690-HE | 6,9  | -       | 34  | 79  | 8    |
| 30210330-HE | 3,3  | -       | 20  | 62  | 6    | 30210700-HE | 7    | -       | 34  | 79  | 8    |
| 30210340-HE | 3,4  | -       | 20  | 62  | 6    | 30210710-HE | 7,1  | -       | 41  | 79  | 8    |
| 30210350-HE | 3,5  | -       | 20  | 62  | 6    | 30210714-HE | 7,14 | 9/32    | 41  | 79  | 8    |
| 30210357-HE | 3,57 | 9/64    | 20  | 62  | 6    | 30210720-HE | 7,2  | -       | 41  | 79  | 8    |
| 30210360-HE | 3,6  | -       | 20  | 62  | 6    | 30210730-HE | 7,3  | -       | 41  | 79  | 8    |
| 30210370-HE | 3,7  | -       | 20  | 62  | 6    | 30210740-HE | 7,4  | -       | 41  | 79  | 8    |
| 30210380-HE | 3,8  | -       | 24  | 66  | 6    | 30210750-HE | 7,5  | -       | 41  | 79  | 8    |
| 30210390-HE | 3,9  | -       | 24  | 66  | 6    | 30210754-HE | 7,54 | 19/64   | 41  | 79  | 8    |
| 30210397-HE | 3,97 | 5/32    | 24  | 66  | 6    | 30210760-HE | 7,6  | -       | 41  | 79  | 8    |
| 30210400-HE | 4    | -       | 24  | 66  | 6    | 30210770-HE | 7,7  | -       | 41  | 79  | 8    |
| 30210410-HE | 4,1  | -       | 24  | 66  | 6    | 30210780-HE | 7,8  | -       | 41  | 79  | 8    |
| 30210420-HE | 4,2  | -       | 24  | 66  | 6    | 30210790-HE | 7,9  | -       | 41  | 79  | 8    |
| 30210430-HE | 4,3  | -       | 24  | 66  | 6    | 30210794-HE | 7,94 | 5/16    | 41  | 79  | 8    |
| 30210437-HE | 4,37 | 11/64   | 24  | 66  | 6    | 30210800-HE | 8    | -       | 41  | 79  | 8    |
| 30210440-HE | 4,4  | -       | 24  | 66  | 6    | 30210810-HE | 8,1  | -       | 47  | 89  | 10   |
| 30210450-HE | 4,5  | -       | 24  | 66  | 6    | 30210820-HE | 8,2  | -       | 47  | 89  | 10   |
| 30210460-HE | 4,6  | -       | 24  | 66  | 6    | 30210830-HE | 8,3  | -       | 47  | 89  | 10   |
| 30210470-HE | 4,7  | -       | 24  | 66  | 6    | 30210833-HE | 8,33 | 21/64   | 47  | 89  | 10   |
| 30210476-HE | 4,76 | 3/16    | 24  | 66  | 6    | 30210840-HE | 8,4  | -       | 47  | 89  | 10   |
| 30210480-HE | 4,8  | -       | 28  | 66  | 6    | 30210850-HE | 8,5  | -       | 47  | 89  | 10   |
| 30210490-HE | 4,9  | -       | 28  | 66  | 6    | 30210860-HE | 8,6  | -       | 47  | 89  | 10   |
| 30210500-HE | 5    | -       | 28  | 66  | 6    | 30210870-HE | 8,7  | -       | 47  | 89  | 10   |
| 30210510-HE | 5,1  | -       | 28  | 66  | 6    | 30210873-HE | 8,73 | 11/32   | 47  | 89  | 10   |
| 30210516-HE | 5,16 | 13/64   | 28  | 66  | 6    | 30210880-HE | 8,8  | -       | 47  | 89  | 10   |
| 30210520-HE | 5,2  | -       | 28  | 66  | 6    | 30210890-HE | 8,9  | -       | 47  | 89  | 10   |
| 30210530-HE | 5,3  | -       | 28  | 66  | 6    | 30210900-HE | 9    | -       | 47  | 89  | 10   |
| 30210540-HE | 5,4  | -       | 28  | 66  | 6    | 30210910-HE | 9,1  | -       | 47  | 89  | 10   |
| 30210550-HE | 5,5  | -       | 28  | 66  | 6    | 30210913-HE | 9,13 | 23/64   | 47  | 89  | 10   |
| 30210556-HE | 5,56 | 7/32    | 28  | 66  | 6    | 30210920-HE | 9,2  | -       | 47  | 89  | 10   |
| 30210560-HE | 5,6  | -       | 28  | 66  | 6    | 30210930-HE | 9,3  | -       | 47  | 89  | 10   |
| 30210570-HE | 5,7  | -       | 28  | 66  | 6    | 30210940-HE | 9,4  | -       | 47  | 89  | 10   |
| 30210580-HE | 5,8  | -       | 28  | 66  | 6    | 30210950-HE | 9,5  | -       | 47  | 89  | 10   |
| 30210590-HE | 5,9  | -       | 28  | 66  | 6    | 30210952-HE | 9,52 | 3/8     | 47  | 89  | 10   |
| 30210595-HE | 5,95 | 15/64   | 28  | 66  | 6    | 30210960-HE | 9,6  | -       | 47  | 89  | 10   |
| 30210600-HE | 6    | -       | 28  | 66  | 6    | 30210970-HE | 9,7  | -       | 47  | 89  | 10   |
| 30210610-HE | 6,1  | -       | 34  | 79  | 8    | 30210980-HE | 9,8  | -       | 47  | 89  | 10   |
| 30210620-HE | 6,2  | -       | 34  | 79  | 8    | 30210990-HE | 9,9  | -       | 47  | 89  | 10   |
| 30210630-HE | 6,3  | -       | 34  | 79  | 8    | 30210992-HE | 9,92 | 25/64   | 47  | 89  | 10   |
| 30210635-HE | 6,35 | 1/4     | 34  | 79  | 8    | 30211000-HE | 10   | -       | 47  | 89  | 10   |
| 30210640-HE | 6,4  | -       | 34  | 79  | 8    | 30211010-HE | 10,1 | -       | 47  | 89  | 12   |
| 30210650-HE | 6,5  | -       | 34  | 79  | 8    | 30211020-HE | 10,2 | -       | 55  | 102 | 12   |
| 30210660-HE | 6,6  | -       | 34  | 79  | 8    | 30211030-HE | 10,3 | -       | 55  | 102 | 12   |



# HYP-HPO-3D-HB NEW

Drilling | Solid carbide | 3xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 3xD
- With Weldon shank for general purpose
- 136 sizes



Drilling | Solid carbide

3xD

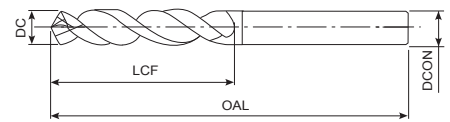
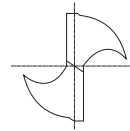
| EDP         | DC   | DC Inch | LCF | OAL | DCON | EDP         | DC   | DC Inch | LCF | OAL | DCON |
|-------------|------|---------|-----|-----|------|-------------|------|---------|-----|-----|------|
| 30210300-HB | 3    | -       | 20  | 62  | 6    | 30210650-HB | 6,5  | -       | 34  | 79  | 8    |
| 30210310-HB | 3,1  | -       | 20  | 62  | 6    | 30210660-HB | 6,6  | -       | 34  | 79  | 8    |
| 30210317-HB | 3,17 | 1/8     | 20  | 62  | 6    | 30210670-HB | 6,7  | -       | 34  | 79  | 8    |
| 30210320-HB | 3,2  | -       | 20  | 62  | 6    | 30210675-HB | 6,75 | 17/64   | 34  | 79  | 8    |
| 30210330-HB | 3,3  | -       | 20  | 62  | 6    | 30210680-HB | 6,8  | -       | 34  | 79  | 8    |
| 30210340-HB | 3,4  | -       | 20  | 62  | 6    | 30210690-HB | 6,9  | -       | 34  | 79  | 8    |
| 30210350-HB | 3,5  | -       | 20  | 62  | 6    | 30210700-HB | 7    | -       | 34  | 79  | 8    |
| 30210357-HB | 3,57 | 9/64    | 20  | 62  | 6    | 30210710-HB | 7,1  | -       | 41  | 79  | 8    |
| 30210360-HB | 3,6  | -       | 20  | 62  | 6    | 30210714-HB | 7,14 | 9/32    | 41  | 79  | 8    |
| 30210370-HB | 3,7  | -       | 20  | 62  | 6    | 30210720-HB | 7,2  | -       | 41  | 79  | 8    |
| 30210380-HB | 3,8  | -       | 24  | 66  | 6    | 30210730-HB | 7,3  | -       | 41  | 79  | 8    |
| 30210390-HB | 3,9  | -       | 24  | 66  | 6    | 30210740-HB | 7,4  | -       | 41  | 79  | 8    |
| 30210397-HB | 3,97 | 5/32    | 24  | 66  | 6    | 30210750-HB | 7,5  | -       | 41  | 79  | 8    |
| 30210400-HB | 4    | -       | 24  | 66  | 6    | 30210754-HB | 7,54 | 19/64   | 41  | 79  | 8    |
| 30210410-HB | 4,1  | -       | 24  | 66  | 6    | 30210760-HB | 7,6  | -       | 41  | 79  | 8    |
| 30210420-HB | 4,2  | -       | 24  | 66  | 6    | 30210770-HB | 7,7  | -       | 41  | 79  | 8    |
| 30210430-HB | 4,3  | -       | 24  | 66  | 6    | 30210780-HB | 7,8  | -       | 41  | 79  | 8    |
| 30210437-HB | 4,37 | 11/64   | 24  | 66  | 6    | 30210790-HB | 7,9  | -       | 41  | 79  | 8    |
| 30210440-HB | 4,4  | -       | 24  | 66  | 6    | 30210794-HB | 7,94 | 5/16    | 41  | 79  | 8    |
| 30210450-HB | 4,5  | -       | 24  | 66  | 6    | 30210800-HB | 8    | -       | 41  | 79  | 8    |
| 30210460-HB | 4,6  | -       | 24  | 66  | 6    | 30210810-HB | 8,1  | -       | 47  | 89  | 10   |
| 30210465-HB | 4,65 | -       | 24  | 66  | 6    | 30210820-HB | 8,2  | -       | 47  | 89  | 10   |
| 30210470-HB | 4,7  | -       | 24  | 66  | 6    | 30210830-HB | 8,3  | -       | 47  | 89  | 10   |
| 30210476-HB | 4,76 | 3/16    | 24  | 66  | 6    | 30210833-HB | 8,33 | 21/64   | 47  | 89  | 10   |
| 30210480-HB | 4,8  | -       | 28  | 66  | 6    | 30210840-HB | 8,4  | -       | 47  | 89  | 10   |
| 30210490-HB | 4,9  | -       | 28  | 66  | 6    | 30210850-HB | 8,5  | -       | 47  | 89  | 10   |
| 30210500-HB | 5    | -       | 28  | 66  | 6    | 30210860-HB | 8,6  | -       | 47  | 89  | 10   |
| 30210510-HB | 5,1  | -       | 28  | 66  | 6    | 30210870-HB | 8,7  | -       | 47  | 89  | 10   |
| 30210516-HB | 5,16 | 13/64   | 28  | 66  | 6    | 30210873-HB | 8,73 | 11/32   | 47  | 89  | 10   |
| 30210520-HB | 5,2  | -       | 28  | 66  | 6    | 30210880-HB | 8,8  | -       | 47  | 89  | 10   |
| 30210530-HB | 5,3  | -       | 28  | 66  | 6    | 30210890-HB | 8,9  | -       | 47  | 89  | 10   |
| 30210540-HB | 5,4  | -       | 28  | 66  | 6    | 30210900-HB | 9    | -       | 47  | 89  | 10   |
| 30210550-HB | 5,5  | -       | 28  | 66  | 6    | 30210910-HB | 9,1  | -       | 47  | 89  | 10   |
| 30210555-HB | 5,55 | -       | 28  | 66  | 6    | 30210913-HB | 9,13 | 23/64   | 47  | 89  | 10   |
| 30210556-HB | 5,56 | 7/32    | 28  | 66  | 6    | 30210920-HB | 9,2  | -       | 47  | 89  | 10   |
| 30210560-HB | 5,6  | -       | 28  | 66  | 6    | 30210930-HB | 9,3  | -       | 47  | 89  | 10   |
| 30210570-HB | 5,7  | -       | 28  | 66  | 6    | 30210940-HB | 9,4  | -       | 47  | 89  | 10   |
| 30210580-HB | 5,8  | -       | 28  | 66  | 6    | 30210950-HB | 9,5  | -       | 47  | 89  | 10   |
| 30210590-HB | 5,9  | -       | 28  | 66  | 6    | 30210952-HB | 9,52 | 3/8     | 47  | 89  | 10   |
| 30210595-HB | 5,95 | 15/64   | 28  | 66  | 6    | 30210960-HB | 9,6  | -       | 47  | 89  | 10   |
| 30210600-HB | 6    | -       | 28  | 66  | 6    | 30210970-HB | 9,7  | -       | 47  | 89  | 10   |
| 30210610-HB | 6,1  | -       | 34  | 79  | 8    | 30210980-HB | 9,8  | -       | 47  | 89  | 10   |
| 30210620-HB | 6,2  | -       | 34  | 79  | 8    | 30210990-HB | 9,9  | -       | 47  | 89  | 10   |
| 30210630-HB | 6,3  | -       | 34  | 79  | 8    | 30210992-HB | 9,92 | 25/64   | 47  | 89  | 10   |
| 30210635-HB | 6,35 | 1/4     | 34  | 79  | 8    | 30211000-HB | 10   | -       | 47  | 89  | 10   |
| 30210640-HB | 6,4  | -       | 34  | 79  | 8    | 30211010-HB | 10,1 | -       | 55  | 102 | 12   |





# HYP-HP-5D

Drilling | Solid carbide | 5xD



- Carbide drill with EgiAs coating
- Up to 5xD
- General purpose
- 154 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |             |           |
|--|----------------|--------------|------------|-------------------|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|-------------|-----------|

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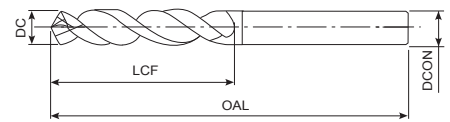
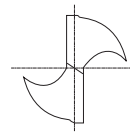
Drilling | Solid carbide

5xD

| EDP      | DC   | DC Inch | LCF | OAL | DCON | EDP      | DC   | DC Inch | LCF | OAL | DCON |
|----------|------|---------|-----|-----|------|----------|------|---------|-----|-----|------|
| 31200100 | 1    | -       | 9   | 38  | 3    | 31200510 | 5,1  | -       | 44  | 82  | 6    |
| 31200110 | 1,1  | -       | 9   | 38  | 3    | 31200516 | 5,16 | 13/64   | 44  | 82  | 6    |
| 31200120 | 1,2  | -       | 11  | 38  | 3    | 31200520 | 5,2  | -       | 44  | 82  | 6    |
| 31200130 | 1,3  | -       | 11  | 38  | 3    | 31200530 | 5,3  | -       | 44  | 82  | 6    |
| 31200140 | 1,4  | -       | 12  | 38  | 3    | 31200540 | 5,4  | -       | 44  | 82  | 6    |
| 31200150 | 1,5  | -       | 12  | 45  | 3    | 31200550 | 5,5  | -       | 44  | 82  | 6    |
| 31200160 | 1,6  | -       | 14  | 45  | 3    | 31200556 | 5,56 | 7/32    | 44  | 82  | 6    |
| 31200170 | 1,7  | -       | 14  | 45  | 3    | 31200560 | 5,6  | -       | 44  | 82  | 6    |
| 31200180 | 1,8  | -       | 16  | 45  | 3    | 31200570 | 5,7  | -       | 44  | 82  | 6    |
| 31200190 | 1,9  | -       | 16  | 45  | 3    | 31200580 | 5,8  | -       | 44  | 82  | 6    |
| 31200200 | 2    | -       | 18  | 52  | 3    | 31200590 | 5,9  | -       | 44  | 82  | 6    |
| 31200210 | 2,1  | -       | 18  | 52  | 3    | 31200595 | 5,95 | 15/64   | 44  | 82  | 6    |
| 31200220 | 2,2  | -       | 20  | 52  | 3    | 31200600 | 6    | -       | 44  | 82  | 6    |
| 31200230 | 2,3  | -       | 20  | 52  | 3    | 31200610 | 6,1  | -       | 53  | 91  | 8    |
| 31200240 | 2,4  | -       | 22  | 52  | 3    | 31200620 | 6,2  | -       | 53  | 91  | 8    |
| 31200250 | 2,5  | -       | 22  | 56  | 3    | 31200630 | 6,3  | -       | 53  | 91  | 8    |
| 31200260 | 2,6  | -       | 22  | 56  | 3    | 31200635 | 6,35 | 1/4     | 53  | 91  | 8    |
| 31200270 | 2,7  | -       | 23  | 56  | 3    | 31200640 | 6,4  | -       | 53  | 91  | 8    |
| 31200280 | 2,8  | -       | 23  | 56  | 3    | 31200650 | 6,5  | -       | 53  | 91  | 8    |
| 31200290 | 2,9  | -       | 23  | 56  | 3    | 31200660 | 6,6  | -       | 53  | 91  | 8    |
| 31200300 | 3    | -       | 28  | 66  | 6    | 31200670 | 6,7  | -       | 53  | 91  | 8    |
| 31200310 | 3,1  | -       | 28  | 66  | 6    | 31200675 | 6,75 | 17/64   | 53  | 91  | 8    |
| 31200317 | 3,17 | 1/8     | 28  | 66  | 6    | 31200680 | 6,8  | -       | 53  | 91  | 8    |
| 31200320 | 3,2  | -       | 28  | 66  | 6    | 31200690 | 6,9  | -       | 53  | 91  | 8    |
| 31200330 | 3,3  | -       | 28  | 66  | 6    | 31200700 | 7    | -       | 53  | 91  | 8    |
| 31200340 | 3,4  | -       | 28  | 66  | 6    | 31200710 | 7,1  | -       | 53  | 91  | 8    |
| 31200350 | 3,5  | -       | 28  | 66  | 6    | 31200714 | 7,14 | 9/32    | 53  | 91  | 8    |
| 31200357 | 3,57 | 9/64    | 28  | 66  | 6    | 31200720 | 7,2  | -       | 53  | 91  | 8    |
| 31200360 | 3,6  | -       | 28  | 66  | 6    | 31200730 | 7,3  | -       | 53  | 91  | 8    |
| 31200370 | 3,7  | -       | 28  | 66  | 6    | 31200740 | 7,4  | -       | 53  | 91  | 8    |
| 31200380 | 3,8  | -       | 36  | 74  | 6    | 31200750 | 7,5  | -       | 53  | 91  | 8    |
| 31200390 | 3,9  | -       | 36  | 74  | 6    | 31200754 | 7,54 | 19/64   | 53  | 91  | 8    |
| 31200397 | 3,97 | 5/32    | 36  | 74  | 6    | 31200760 | 7,6  | -       | 53  | 91  | 8    |
| 31200400 | 4    | -       | 36  | 74  | 6    | 31200770 | 7,7  | -       | 53  | 91  | 8    |
| 31200410 | 4,1  | -       | 36  | 74  | 6    | 31200780 | 7,8  | -       | 53  | 91  | 8    |
| 31200420 | 4,2  | -       | 36  | 74  | 6    | 31200790 | 7,9  | -       | 53  | 91  | 8    |
| 31200430 | 4,3  | -       | 36  | 74  | 6    | 31200794 | 7,94 | 5/16    | 53  | 91  | 8    |
| 31200437 | 4,37 | 11/64   | 36  | 74  | 6    | 31200800 | 8    | -       | 53  | 91  | 8    |
| 31200440 | 4,4  | -       | 36  | 74  | 6    | 31200810 | 8,1  | -       | 61  | 103 | 10   |
| 31200450 | 4,5  | -       | 36  | 74  | 6    | 31200820 | 8,2  | -       | 61  | 103 | 10   |
| 31200460 | 4,6  | -       | 36  | 74  | 6    | 31200830 | 8,3  | -       | 61  | 103 | 10   |
| 31200470 | 4,7  | -       | 36  | 74  | 6    | 31200833 | 8,33 | 21/64   | 61  | 103 | 10   |
| 31200476 | 4,76 | 3/16    | 44  | 82  | 6    | 31200840 | 8,4  | -       | 61  | 103 | 10   |
| 31200480 | 4,8  | -       | 44  | 82  | 6    | 31200850 | 8,5  | -       | 61  | 103 | 10   |
| 31200490 | 4,9  | -       | 44  | 82  | 6    | 31200860 | 8,6  | -       | 61  | 103 | 10   |
| 31200500 | 5    | -       | 44  | 82  | 6    | 31200870 | 8,7  | -       | 61  | 103 | 10   |

# HYP-HP-5D

Drilling | Solid carbide | 5xD



- Carbide drill with EgiAs coating
- Up to 5xD
- General purpose
- 154 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |             |           |
|--|----------------|--------------|------------|-------------------|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|-------------|-----------|

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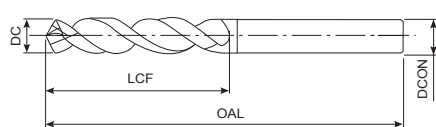
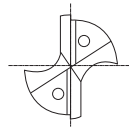
| EDP      | DC    | DC Inch | LCF | OAL | DCON |
|----------|-------|---------|-----|-----|------|
| 31200873 | 8,73  | 11/32   | 61  | 103 | 10   |
| 31200880 | 8,8   | -       | 61  | 103 | 10   |
| 31200890 | 8,9   | -       | 61  | 103 | 10   |
| 31200900 | 9     | -       | 61  | 103 | 10   |
| 31200910 | 9,1   | -       | 61  | 103 | 10   |
| 31200913 | 9,13  | 23/64   | 61  | 103 | 10   |
| 31200920 | 9,2   | -       | 61  | 103 | 10   |
| 31200930 | 9,3   | -       | 61  | 103 | 10   |
| 31200940 | 9,4   | -       | 61  | 103 | 10   |
| 31200950 | 9,5   | -       | 61  | 103 | 10   |
| 31200952 | 9,52  | 3/8     | 61  | 103 | 10   |
| 31200960 | 9,6   | -       | 61  | 103 | 10   |
| 31200970 | 9,7   | -       | 61  | 103 | 10   |
| 31200980 | 9,8   | -       | 61  | 103 | 10   |
| 31200990 | 9,9   | -       | 61  | 103 | 10   |
| 31200992 | 9,92  | 25/64   | 61  | 103 | 10   |
| 31201000 | 10    | -       | 61  | 103 | 10   |
| 31201010 | 10,1  | -       | 71  | 118 | 12   |
| 31201020 | 10,2  | -       | 71  | 118 | 12   |
| 31201030 | 10,3  | -       | 71  | 118 | 12   |
| 31201032 | 10,32 | 13/32   | 71  | 118 | 12   |
| 31201040 | 10,4  | -       | 71  | 118 | 12   |
| 31201050 | 10,5  | -       | 71  | 118 | 12   |
| 31201060 | 10,6  | -       | 71  | 118 | 12   |
| 31201070 | 10,7  | -       | 71  | 118 | 12   |
| 31201072 | 10,72 | 27/64   | 71  | 118 | 12   |
| 31201080 | 10,8  | -       | 71  | 118 | 12   |
| 31201090 | 10,9  | -       | 71  | 118 | 12   |
| 31201100 | 11    | -       | 71  | 118 | 12   |
| 31201110 | 11,1  | -       | 71  | 118 | 12   |
| 31201111 | 11,11 | 7/16    | 71  | 118 | 12   |
| 31201120 | 11,2  | -       | 71  | 118 | 12   |
| 31201130 | 11,3  | -       | 71  | 118 | 12   |
| 31201140 | 11,4  | -       | 71  | 118 | 12   |
| 31201150 | 11,5  | -       | 71  | 118 | 12   |
| 31201151 | 11,51 | 29/64   | 71  | 118 | 12   |
| 31201160 | 11,6  | -       | 71  | 118 | 12   |
| 31201170 | 11,7  | -       | 71  | 118 | 12   |
| 31201180 | 11,8  | -       | 71  | 118 | 12   |
| 31201190 | 11,9  | -       | 71  | 118 | 12   |
| 31201191 | 11,91 | 15/32   | 71  | 118 | 12   |
| 31201200 | 12    | -       | 71  | 118 | 12   |
| 31201230 | 12,3  | 31/64   | 77  | 124 | 14   |
| 31201250 | 12,5  | -       | 77  | 124 | 14   |
| 31201270 | 12,7  | 1/2     | 77  | 124 | 14   |
| 31201300 | 13    | -       | 77  | 124 | 14   |

| EDP      | DC    | DC Inch | LCF | OAL | DCON |
|----------|-------|---------|-----|-----|------|
| 31201350 | 13,5  | -       | 77  | 124 | 14   |
| 31201400 | 14    | -       | 77  | 124 | 14   |
| 31201429 | 14,29 | 9/16    | 83  | 133 | 16   |
| 31201450 | 14,5  | -       | 83  | 133 | 16   |
| 31201500 | 15    | -       | 83  | 133 | 16   |
| 31201550 | 15,5  | -       | 83  | 133 | 16   |
| 31201587 | 15,87 | 5/8     | 83  | 133 | 16   |
| 31201600 | 16    | -       | 83  | 133 | 16   |
| 31201650 | 16,5  | -       | 93  | 143 | 18   |
| 31201700 | 17    | -       | 93  | 143 | 18   |
| 31201750 | 17,5  | -       | 93  | 143 | 18   |
| 31201800 | 18    | -       | 93  | 143 | 18   |
| 31201850 | 18,5  | -       | 101 | 153 | 20   |
| 31201900 | 19    | -       | 101 | 153 | 20   |
| 31201950 | 19,5  | -       | 101 | 153 | 20   |
| 31202000 | 20    | -       | 101 | 153 | 20   |



# HYP-HPO-5D NEW SIZES

Drilling | Solid carbide | 5xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 5xD
- General purpose
- 156 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |  |             |           |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> |  | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|

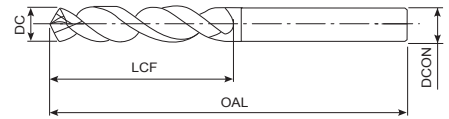
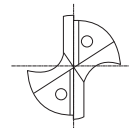
Drilling | Solid carbide

5xD

| EDP      | DC   | DC Inch | LCF | OAL | DCON | EDP      | DC   | DC Inch | LCF | OAL | DCON |
|----------|------|---------|-----|-----|------|----------|------|---------|-----|-----|------|
| 30220100 | 1    | -       | 8   | 55  | 3    | 30220500 | 5    | -       | 44  | 82  | 6    |
| 30220110 | 1,1  | -       | 12  | 55  | 3    | 30220510 | 5,1  | -       | 44  | 82  | 6    |
| 30220120 | 1,2  | -       | 12  | 55  | 3    | 30220516 | 5,16 | 13/64   | 44  | 82  | 6    |
| 30220130 | 1,3  | -       | 12  | 55  | 3    | 30220520 | 5,2  | -       | 44  | 82  | 6    |
| 30220140 | 1,4  | -       | 12  | 55  | 3    | 30220530 | 5,3  | -       | 44  | 82  | 6    |
| 30220150 | 1,5  | -       | 16  | 55  | 3    | 30220540 | 5,4  | -       | 44  | 82  | 6    |
| 30220160 | 1,6  | -       | 16  | 55  | 3    | 30220550 | 5,5  | -       | 44  | 82  | 6    |
| 30220170 | 1,7  | -       | 16  | 55  | 3    | 30220555 | 5,55 | -       | 44  | 82  | 6    |
| 30220180 | 1,8  | -       | 16  | 55  | 3    | 30220556 | 5,56 | 7/32    | 44  | 82  | 6    |
| 30220190 | 1,9  | -       | 16  | 55  | 3    | 30220560 | 5,6  | -       | 44  | 82  | 6    |
| 30220200 | 2    | -       | 21  | 57  | 4    | 30220570 | 5,7  | -       | 44  | 82  | 6    |
| 30220210 | 2,1  | -       | 21  | 57  | 4    | 30220580 | 5,8  | -       | 44  | 82  | 6    |
| 30220220 | 2,2  | -       | 21  | 57  | 4    | 30220590 | 5,9  | -       | 44  | 82  | 6    |
| 30220230 | 2,3  | -       | 21  | 57  | 4    | 30220595 | 5,95 | 15/54   | 44  | 82  | 6    |
| 30220240 | 2,4  | -       | 21  | 57  | 4    | 30220600 | 6    | -       | 44  | 82  | 6    |
| 30220250 | 2,5  | -       | 21  | 57  | 4    | 30220610 | 6,1  | -       | 53  | 91  | 8    |
| 30220260 | 2,6  | -       | 21  | 57  | 4    | 30220620 | 6,2  | -       | 53  | 91  | 8    |
| 30220270 | 2,7  | -       | 21  | 57  | 4    | 30220630 | 6,3  | -       | 53  | 91  | 8    |
| 30220280 | 2,8  | -       | 21  | 57  | 4    | 30220635 | 6,35 | 1/4     | 53  | 91  | 8    |
| 30220290 | 2,9  | -       | 21  | 57  | 4    | 30220640 | 6,4  | -       | 53  | 91  | 8    |
| 30220300 | 3    | -       | 28  | 66  | 6    | 30220650 | 6,5  | -       | 53  | 91  | 8    |
| 30220310 | 3,1  | -       | 28  | 66  | 6    | 30220660 | 6,6  | -       | 53  | 91  | 8    |
| 30220317 | 3,17 | 1/8     | 28  | 66  | 6    | 30220670 | 6,7  | -       | 53  | 91  | 8    |
| 30220320 | 3,2  | -       | 28  | 66  | 6    | 30220675 | 6,75 | 17/64   | 53  | 91  | 8    |
| 30220330 | 3,3  | -       | 28  | 66  | 6    | 30220680 | 6,8  | -       | 53  | 91  | 8    |
| 30220340 | 3,4  | -       | 28  | 66  | 6    | 30220690 | 6,9  | -       | 53  | 91  | 8    |
| 30220350 | 3,5  | -       | 28  | 66  | 6    | 30220700 | 7    | -       | 53  | 91  | 8    |
| 30220357 | 3,57 | 9/64    | 28  | 66  | 6    | 30220710 | 7,1  | -       | 53  | 91  | 8    |
| 30220360 | 3,6  | -       | 28  | 66  | 6    | 30220714 | 7,14 | 9/32    | 53  | 91  | 8    |
| 30220370 | 3,7  | -       | 28  | 66  | 6    | 30220720 | 7,2  | -       | 53  | 91  | 8    |
| 30220380 | 3,8  | -       | 36  | 74  | 6    | 30220730 | 7,3  | -       | 53  | 91  | 8    |
| 30220390 | 3,9  | -       | 36  | 74  | 6    | 30220740 | 7,4  | -       | 53  | 91  | 8    |
| 30220397 | 3,97 | 5/32    | 36  | 74  | 6    | 30220750 | 7,5  | -       | 53  | 91  | 8    |
| 30220400 | 4    | -       | 36  | 74  | 6    | 30220754 | 7,54 | 19/64   | 53  | 91  | 8    |
| 30220410 | 4,1  | -       | 36  | 74  | 6    | 30220760 | 7,6  | -       | 53  | 91  | 8    |
| 30220420 | 4,2  | -       | 36  | 74  | 6    | 30220770 | 7,7  | -       | 53  | 91  | 8    |
| 30220430 | 4,3  | -       | 36  | 74  | 6    | 30220780 | 7,8  | -       | 53  | 91  | 8    |
| 30220437 | 4,37 | 11/64   | 36  | 74  | 6    | 30220790 | 7,9  | -       | 53  | 91  | 8    |
| 30220440 | 4,4  | -       | 36  | 74  | 6    | 30220794 | 7,94 | 5/16    | 53  | 91  | 8    |
| 30220450 | 4,5  | -       | 36  | 74  | 6    | 30220800 | 8    | -       | 53  | 91  | 8    |
| 30220460 | 4,6  | -       | 36  | 74  | 6    | 30220810 | 8,1  | -       | 61  | 103 | 10   |
| 30220465 | 4,65 | -       | 36  | 74  | 6    | 30220820 | 8,2  | -       | 61  | 103 | 10   |
| 30220470 | 4,7  | -       | 36  | 74  | 6    | 30220830 | 8,3  | -       | 61  | 103 | 10   |
| 30220476 | 4,76 | 3/16    | 44  | 82  | 6    | 30220833 | 8,33 | 21/64   | 61  | 103 | 10   |
| 30220480 | 4,8  | -       | 44  | 82  | 6    | 30220840 | 8,4  | -       | 61  | 103 | 10   |
| 30220490 | 4,9  | -       | 44  | 82  | 6    | 30220850 | 8,5  | -       | 61  | 103 | 10   |

# HYP-HPO-5D NEW SIZES

Drilling | Solid carbide | 5xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 5xD
- General purpose
- 156 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

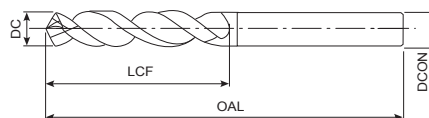
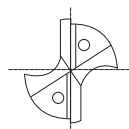
|  |                |              |            |                   |  |             |           |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> |  | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|

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| EDP      | DC    | DC Inch | LCF | OAL | DCON | EDP      | DC    | DC Inch | LCF | OAL | DCON |
|----------|-------|---------|-----|-----|------|----------|-------|---------|-----|-----|------|
| 30220860 | 8,6   | -       | 61  | 103 | 10   | 30221270 | 12,7  | 1/2     | 77  | 124 | 14   |
| 30220870 | 8,7   | -       | 61  | 103 | 10   | 30221300 | 13    | -       | 77  | 124 | 14   |
| 30220873 | 8,73  | 11/32   | 61  | 103 | 10   | 30221350 | 13,5  | -       | 77  | 124 | 14   |
| 30220880 | 8,8   | -       | 61  | 103 | 10   | 30221400 | 14    | -       | 77  | 124 | 14   |
| 30220890 | 8,9   | -       | 61  | 103 | 10   | 30221429 | 14,29 | 9/16    | 83  | 133 | 16   |
| 30220900 | 9     | -       | 61  | 103 | 10   | 30221450 | 14,5  | -       | 83  | 133 | 16   |
| 30220910 | 9,1   | -       | 61  | 103 | 10   | 30221500 | 15    | -       | 83  | 133 | 16   |
| 30220913 | 9,13  | 23/64   | 61  | 103 | 10   | 30221550 | 15,5  | -       | 83  | 133 | 16   |
| 30220920 | 9,2   | -       | 61  | 103 | 10   | 30221587 | 15,87 | 5/8     | 83  | 133 | 16   |
| 30220930 | 9,3   | -       | 61  | 103 | 10   | 30221600 | 16    | -       | 83  | 133 | 16   |
| 30220940 | 9,4   | -       | 61  | 103 | 10   | 30221650 | 16,5  | -       | 93  | 143 | 18   |
| 30220950 | 9,5   | -       | 61  | 103 | 10   | 30221700 | 17    | -       | 93  | 143 | 18   |
| 30220952 | 9,52  | 3/8     | 61  | 103 | 10   | 30221750 | 17,5  | -       | 93  | 143 | 18   |
| 30220960 | 9,6   | -       | 61  | 103 | 10   | 30221800 | 18    | -       | 93  | 143 | 18   |
| 30220970 | 9,7   | -       | 61  | 103 | 10   | 30221850 | 18,5  | -       | 101 | 153 | 20   |
| 30220980 | 9,8   | -       | 61  | 103 | 10   | 30221900 | 19    | -       | 101 | 153 | 20   |
| 30220990 | 9,9   | -       | 61  | 103 | 10   | 30221950 | 19,5  | -       | 101 | 153 | 20   |
| 30220992 | 9,92  | 25/64   | 61  | 103 | 10   | 30222000 | 20    | -       | 101 | 153 | 20   |
| 30221000 | 10    | -       | 61  | 103 | 10   |          |       |         |     |     |      |
| 30221010 | 10,1  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221020 | 10,2  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221030 | 10,3  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221032 | 10,32 | 13/32   | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221040 | 10,4  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221050 | 10,5  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221060 | 10,6  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221070 | 10,7  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221072 | 10,72 | 27/64   | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221080 | 10,8  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221090 | 10,9  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221100 | 11    | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221110 | 11,1  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221111 | 11,11 | 7/16    | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221120 | 11,2  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221130 | 11,3  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221140 | 11,4  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221150 | 11,5  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221151 | 11,51 | 29/64   | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221160 | 11,6  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221170 | 11,7  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221180 | 11,8  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221190 | 11,9  | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221191 | 11,91 | 15/32   | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221200 | 12    | -       | 71  | 118 | 12   |          |       |         |     |     |      |
| 30221230 | 12,3  | 31/64   | 77  | 124 | 14   |          |       |         |     |     |      |
| 30221250 | 12,5  | -       | 77  | 124 | 14   |          |       |         |     |     |      |

# HYP-HPO-5D-HE

Drilling | Solid carbide | 5xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 5xD
- With Whistle Notch shank for general purpose
- 134 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |  |  |             |           |
|--|----------------|--------------|------------|--|--|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> |  |  | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|--|--|-------------|-----------|

Drilling | Solid carbide

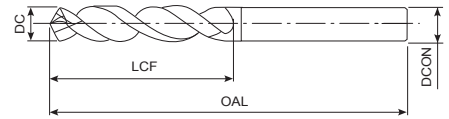
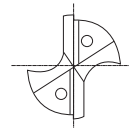
5xD

| EDP         | DC   | DC Inch | LCF | OAL | DCON | EDP         | DC   | DC Inch | LCF | OAL | DCON |
|-------------|------|---------|-----|-----|------|-------------|------|---------|-----|-----|------|
| 30220300-HE | 3    | -       | 28  | 66  | 6    | 30220670-HE | 6,7  | -       | 53  | 91  | 8    |
| 30220310-HE | 3,1  | -       | 28  | 66  | 6    | 30220675-HE | 6,75 | 17/64   | 53  | 91  | 8    |
| 30220317-HE | 3,17 | 1/8     | 28  | 66  | 6    | 30220680-HE | 6,8  | -       | 53  | 91  | 8    |
| 30220320-HE | 3,2  | -       | 28  | 66  | 6    | 30220690-HE | 6,9  | -       | 53  | 91  | 8    |
| 30220330-HE | 3,3  | -       | 28  | 66  | 6    | 30220700-HE | 7    | -       | 53  | 91  | 8    |
| 30220340-HE | 3,4  | -       | 28  | 66  | 6    | 30220710-HE | 7,1  | -       | 53  | 91  | 8    |
| 30220350-HE | 3,5  | -       | 28  | 66  | 6    | 30220714-HE | 7,14 | 9/32    | 53  | 91  | 8    |
| 30220357-HE | 3,57 | 9/64    | 28  | 66  | 6    | 30220720-HE | 7,2  | -       | 53  | 91  | 8    |
| 30220360-HE | 3,6  | -       | 28  | 66  | 6    | 30220730-HE | 7,3  | -       | 53  | 91  | 8    |
| 30220370-HE | 3,7  | -       | 28  | 66  | 6    | 30220740-HE | 7,4  | -       | 53  | 91  | 8    |
| 30220380-HE | 3,8  | -       | 36  | 74  | 6    | 30220750-HE | 7,5  | -       | 53  | 91  | 8    |
| 30220390-HE | 3,9  | -       | 36  | 74  | 6    | 30220754-HE | 7,54 | 19/64   | 53  | 91  | 8    |
| 30220397-HE | 3,97 | 5/32    | 36  | 74  | 6    | 30220760-HE | 7,6  | -       | 53  | 91  | 8    |
| 30220400-HE | 4    | -       | 36  | 74  | 6    | 30220770-HE | 7,7  | -       | 53  | 91  | 8    |
| 30220410-HE | 4,1  | -       | 36  | 74  | 6    | 30220780-HE | 7,8  | -       | 53  | 91  | 8    |
| 30220420-HE | 4,2  | -       | 36  | 74  | 6    | 30220790-HE | 7,9  | -       | 53  | 91  | 8    |
| 30220430-HE | 4,3  | -       | 36  | 74  | 6    | 30220794-HE | 7,94 | 5/16    | 53  | 91  | 8    |
| 30220437-HE | 4,37 | 11/64   | 36  | 74  | 6    | 30220800-HE | 8    | -       | 53  | 91  | 8    |
| 30220440-HE | 4,4  | -       | 36  | 74  | 6    | 30220810-HE | 8,1  | -       | 61  | 103 | 10   |
| 30220450-HE | 4,5  | -       | 36  | 74  | 6    | 30220820-HE | 8,2  | -       | 61  | 103 | 10   |
| 30220460-HE | 4,6  | -       | 36  | 74  | 6    | 30220830-HE | 8,3  | -       | 61  | 103 | 10   |
| 30220470-HE | 4,7  | -       | 36  | 74  | 6    | 30220833-HE | 8,33 | 21/64   | 61  | 103 | 10   |
| 30220476-HE | 4,76 | 3/16    | 44  | 82  | 6    | 30220840-HE | 8,4  | -       | 61  | 103 | 10   |
| 30220480-HE | 4,8  | -       | 44  | 82  | 6    | 30220850-HE | 8,5  | -       | 61  | 103 | 10   |
| 30220490-HE | 4,9  | -       | 44  | 82  | 6    | 30220860-HE | 8,6  | -       | 61  | 103 | 10   |
| 30220500-HE | 5    | -       | 44  | 82  | 6    | 30220870-HE | 8,7  | -       | 61  | 103 | 10   |
| 30220510-HE | 5,1  | -       | 44  | 82  | 6    | 30220873-HE | 8,73 | 11/32   | 61  | 103 | 10   |
| 30220516-HE | 5,16 | 13/64   | 44  | 82  | 6    | 30220880-HE | 8,8  | -       | 61  | 103 | 10   |
| 30220520-HE | 5,2  | -       | 44  | 82  | 6    | 30220890-HE | 8,9  | -       | 61  | 103 | 10   |
| 30220530-HE | 5,3  | -       | 44  | 82  | 6    | 30220900-HE | 9    | -       | 61  | 103 | 10   |
| 30220540-HE | 5,4  | -       | 44  | 82  | 6    | 30220910-HE | 9,1  | -       | 61  | 103 | 10   |
| 30220550-HE | 5,5  | -       | 44  | 82  | 6    | 30220913-HE | 9,13 | 23/64   | 61  | 103 | 10   |
| 30220556-HE | 5,56 | 7/32    | 44  | 82  | 6    | 30220920-HE | 9,2  | -       | 61  | 103 | 10   |
| 30220560-HE | 5,6  | -       | 44  | 82  | 6    | 30220930-HE | 9,3  | -       | 61  | 103 | 10   |
| 30220570-HE | 5,7  | -       | 44  | 82  | 6    | 30220940-HE | 9,4  | -       | 61  | 103 | 10   |
| 30220580-HE | 5,8  | -       | 44  | 82  | 6    | 30220950-HE | 9,5  | -       | 61  | 103 | 10   |
| 30220590-HE | 5,9  | -       | 44  | 82  | 6    | 30220952-HE | 9,52 | 3/8     | 61  | 103 | 10   |
| 30220595-HE | 5,95 | 15/64   | 44  | 82  | 6    | 30220960-HE | 9,6  | -       | 61  | 103 | 10   |
| 30220600-HE | 6    | -       | 44  | 82  | 6    | 30220970-HE | 9,7  | -       | 61  | 103 | 10   |
| 30220610-HE | 6,1  | -       | 53  | 91  | 8    | 30220980-HE | 9,8  | -       | 61  | 103 | 10   |
| 30220620-HE | 6,2  | -       | 53  | 91  | 8    | 30220990-HE | 9,9  | -       | 61  | 103 | 10   |
| 30220630-HE | 6,3  | -       | 53  | 91  | 8    | 30220992-HE | 9,92 | 25/64   | 61  | 103 | 10   |
| 30220635-HE | 6,35 | 1/4     | 53  | 91  | 8    | 30221000-HE | 10   | -       | 61  | 103 | 10   |
| 30220640-HE | 6,4  | -       | 53  | 91  | 8    | 30221010-HE | 10,1 | -       | 71  | 118 | 12   |
| 30220650-HE | 6,5  | -       | 53  | 91  | 8    | 30221020-HE | 10,2 | -       | 71  | 118 | 12   |
| 30220660-HE | 6,6  | -       | 53  | 91  | 8    | 30221030-HE | 10,3 | -       | 71  | 118 | 12   |



# HYP-HPO-5D-HE

Drilling | Solid carbide | 5xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 5xD
- With Whistle Notch shank for general purpose
- 134 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |  |  |             |           |             |
|--|----------------|--------------|------------|--|--|-------------|-----------|-------------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> |  |  | <b>140°</b> | <b>m7</b> | <br>Page 23 |
|--|----------------|--------------|------------|--|--|-------------|-----------|-------------|

| EDP         | DC    | DC Inch | LCF | OAL | DCON | EDP | DC | DC Inch | LCF | OAL | DCON |
|-------------|-------|---------|-----|-----|------|-----|----|---------|-----|-----|------|
| 30221032-HE | 10,32 | 13/32   | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221040-HE | 10,4  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221050-HE | 10,5  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221060-HE | 10,6  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221070-HE | 10,7  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221072-HE | 10,72 | 27/64   | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221080-HE | 10,8  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221090-HE | 10,9  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221100-HE | 11    | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221110-HE | 11,1  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221111-HE | 11,11 | 7/16    | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221120-HE | 11,2  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221130-HE | 11,3  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221140-HE | 11,4  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221150-HE | 11,5  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221151-HE | 11,51 | 29/64   | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221160-HE | 11,6  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221170-HE | 11,7  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221180-HE | 11,8  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221190-HE | 11,9  | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221191-HE | 11,91 | 15/32   | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221200-HE | 12    | -       | 71  | 118 | 12   |     |    |         |     |     |      |
| 30221230-HE | 12,3  | 31/64   | 77  | 124 | 14   |     |    |         |     |     |      |
| 30221250-HE | 12,5  | -       | 77  | 124 | 14   |     |    |         |     |     |      |
| 30221270-HE | 12,7  | 1/2     | 77  | 124 | 14   |     |    |         |     |     |      |
| 30221300-HE | 13    | -       | 77  | 124 | 14   |     |    |         |     |     |      |
| 30221350-HE | 13,5  | -       | 77  | 124 | 14   |     |    |         |     |     |      |
| 30221400-HE | 14    | -       | 77  | 124 | 14   |     |    |         |     |     |      |
| 30221429-HE | 14,29 | 9/16    | 83  | 133 | 16   |     |    |         |     |     |      |
| 30221450-HE | 14,5  | -       | 83  | 133 | 16   |     |    |         |     |     |      |
| 30221500-HE | 15    | -       | 83  | 133 | 16   |     |    |         |     |     |      |
| 30221550-HE | 15,5  | -       | 83  | 133 | 16   |     |    |         |     |     |      |
| 30221587-HE | 15,87 | 5/8     | 83  | 133 | 16   |     |    |         |     |     |      |
| 30221600-HE | 16    | -       | 83  | 133 | 16   |     |    |         |     |     |      |
| 30221650-HE | 16,5  | -       | 93  | 143 | 18   |     |    |         |     |     |      |
| 30221700-HE | 17    | -       | 93  | 143 | 18   |     |    |         |     |     |      |
| 30221750-HE | 17,5  | -       | 93  | 143 | 18   |     |    |         |     |     |      |
| 30221800-HE | 18    | -       | 93  | 143 | 18   |     |    |         |     |     |      |
| 30221850-HE | 18,5  | -       | 101 | 153 | 20   |     |    |         |     |     |      |
| 30221900-HE | 19    | -       | 101 | 153 | 20   |     |    |         |     |     |      |
| 30221950-HE | 19,5  | -       | 101 | 153 | 20   |     |    |         |     |     |      |
| 30222000-HE | 20    | -       | 101 | 153 | 20   |     |    |         |     |     |      |

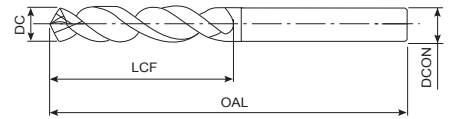
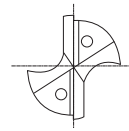
Drilling | Solid carbide



5xD

# HYP-HPO-5D-HB NEW

Drilling | Solid carbide | 5xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 5xD
- With Weldon shank for general purpose
- 136 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |  |             |           |
|--|----------------|--------------|------------|--|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> |  | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|--|-------------|-----------|

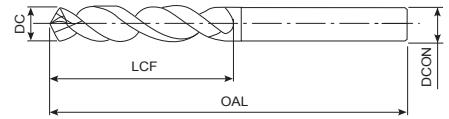
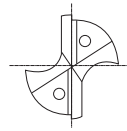
Drilling | Solid carbide 5xD

| EDP         | DC   | DC Inch | LCF | OAL | DCON | EDP         | DC   | DC Inch | LCF | OAL | DCON |
|-------------|------|---------|-----|-----|------|-------------|------|---------|-----|-----|------|
| 30220300-HB | 3    | -       | 28  | 66  | 6    | 30220650-HB | 6,5  | -       | 53  | 91  | 8    |
| 30220310-HB | 3,1  | -       | 28  | 66  | 6    | 30220660-HB | 6,6  | -       | 53  | 91  | 8    |
| 30220317-HB | 3,17 | 1/8     | 28  | 66  | 6    | 30220670-HB | 6,7  | -       | 53  | 91  | 8    |
| 30220320-HB | 3,2  | -       | 28  | 66  | 6    | 30220675-HB | 6,75 | 17/64   | 53  | 91  | 8    |
| 30220330-HB | 3,3  | -       | 28  | 66  | 6    | 30220680-HB | 6,8  | -       | 53  | 91  | 8    |
| 30220340-HB | 3,4  | -       | 28  | 66  | 6    | 30220690-HB | 6,9  | -       | 53  | 91  | 8    |
| 30220350-HB | 3,5  | -       | 28  | 66  | 6    | 30220700-HB | 7    | -       | 53  | 91  | 8    |
| 30220357-HB | 3,57 | 9/64    | 28  | 66  | 6    | 30220710-HB | 7,1  | -       | 53  | 91  | 8    |
| 30220360-HB | 3,6  | -       | 28  | 66  | 6    | 30220714-HB | 7,14 | 9/32    | 53  | 91  | 8    |
| 30220370-HB | 3,7  | -       | 28  | 66  | 6    | 30220720-HB | 7,2  | -       | 53  | 91  | 8    |
| 30220380-HB | 3,8  | -       | 36  | 74  | 6    | 30220730-HB | 7,3  | -       | 53  | 91  | 8    |
| 30220390-HB | 3,9  | -       | 36  | 74  | 6    | 30220740-HB | 7,4  | -       | 53  | 91  | 8    |
| 30220397-HB | 3,97 | 5/32    | 36  | 74  | 6    | 30220750-HB | 7,5  | -       | 53  | 91  | 8    |
| 30220400-HB | 4    | -       | 36  | 74  | 6    | 30220754-HB | 7,54 | 19/64   | 53  | 91  | 8    |
| 30220410-HB | 4,1  | -       | 36  | 74  | 6    | 30220760-HB | 7,6  | -       | 53  | 91  | 8    |
| 30220420-HB | 4,2  | -       | 36  | 74  | 6    | 30220770-HB | 7,7  | -       | 53  | 91  | 8    |
| 30220430-HB | 4,3  | -       | 36  | 74  | 6    | 30220780-HB | 7,8  | -       | 53  | 91  | 8    |
| 30220437-HB | 4,37 | 11/64   | 36  | 74  | 6    | 30220790-HB | 7,9  | -       | 53  | 91  | 8    |
| 30220440-HB | 4,4  | -       | 36  | 74  | 6    | 30220794-HB | 7,94 | 5/16    | 53  | 91  | 8    |
| 30220450-HB | 4,5  | -       | 36  | 74  | 6    | 30220800-HB | 8    | -       | 53  | 91  | 8    |
| 30220460-HB | 4,6  | -       | 36  | 74  | 6    | 30220810-HB | 8,1  | -       | 61  | 103 | 10   |
| 30220465-HB | 4,65 | -       | 36  | 74  | 6    | 30220820-HB | 8,2  | -       | 61  | 103 | 10   |
| 30220470-HB | 4,7  | -       | 36  | 74  | 6    | 30220830-HB | 8,3  | -       | 61  | 103 | 10   |
| 30220476-HB | 4,76 | 3/16    | 44  | 82  | 6    | 30220833-HB | 8,33 | 21/64   | 61  | 103 | 10   |
| 30220480-HB | 4,8  | -       | 44  | 82  | 6    | 30220840-HB | 8,4  | -       | 61  | 103 | 10   |
| 30220490-HB | 4,9  | -       | 44  | 82  | 6    | 30220850-HB | 8,5  | -       | 61  | 103 | 10   |
| 30220500-HB | 5    | -       | 44  | 82  | 6    | 30220860-HB | 8,6  | -       | 61  | 103 | 10   |
| 30220510-HB | 5,1  | -       | 44  | 82  | 6    | 30220870-HB | 8,7  | -       | 61  | 103 | 10   |
| 30220516-HB | 5,16 | 13/64   | 44  | 82  | 6    | 30220873-HB | 8,73 | 11/32   | 61  | 103 | 10   |
| 30220520-HB | 5,2  | -       | 44  | 82  | 6    | 30220880-HB | 8,8  | -       | 61  | 103 | 10   |
| 30220530-HB | 5,3  | -       | 44  | 82  | 6    | 30220890-HB | 8,9  | -       | 61  | 103 | 10   |
| 30220540-HB | 5,4  | -       | 44  | 82  | 6    | 30220900-HB | 9    | -       | 61  | 103 | 10   |
| 30220550-HB | 5,5  | -       | 44  | 82  | 6    | 30220910-HB | 9,1  | -       | 61  | 103 | 10   |
| 30220555-HB | 5,55 | -       | 44  | 82  | 6    | 30220913-HB | 9,13 | 23/64   | 61  | 103 | 10   |
| 30220556-HB | 5,56 | 7/32    | 44  | 82  | 6    | 30220920-HB | 9,2  | -       | 61  | 103 | 10   |
| 30220560-HB | 5,6  | -       | 44  | 82  | 6    | 30220930-HB | 9,3  | -       | 61  | 103 | 10   |
| 30220570-HB | 5,7  | -       | 44  | 82  | 6    | 30220940-HB | 9,4  | -       | 61  | 103 | 10   |
| 30220580-HB | 5,8  | -       | 44  | 82  | 6    | 30220950-HB | 9,5  | -       | 61  | 103 | 10   |
| 30220590-HB | 5,9  | -       | 44  | 82  | 6    | 30220952-HB | 9,52 | 3/8     | 61  | 103 | 10   |
| 30220595-HB | 5,95 | 15/54   | 44  | 82  | 6    | 30220960-HB | 9,6  | -       | 61  | 103 | 10   |
| 30220600-HB | 6    | -       | 44  | 82  | 6    | 30220970-HB | 9,7  | -       | 61  | 103 | 10   |
| 30220610-HB | 6,1  | -       | 53  | 91  | 8    | 30220980-HB | 9,8  | -       | 61  | 103 | 10   |
| 30220620-HB | 6,2  | -       | 53  | 91  | 8    | 30220990-HB | 9,9  | -       | 61  | 103 | 10   |
| 30220630-HB | 6,3  | -       | 53  | 91  | 8    | 30220992-HB | 9,92 | 25/64   | 61  | 103 | 10   |
| 30220635-HB | 6,35 | 1/4     | 53  | 91  | 8    | 30221000-HB | 10   | -       | 61  | 103 | 10   |
| 30220640-HB | 6,4  | -       | 53  | 91  | 8    | 30221010-HB | 10,1 | -       | 71  | 118 | 12   |



# HYP-HPO-8D

Drilling | Solid carbide | 8xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 8xD
- General purpose
- 134 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

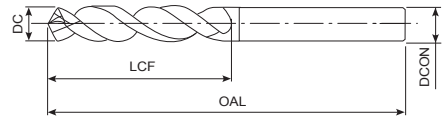
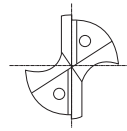
|  |                |              |            |                   |  |             |           |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> |  | <b>140°</b> | <b>m7</b> |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|

Drilling | Solid carbide 8xD

| EDP      | DC   | DC Inch | LCF | OAL | DCON | EDP      | DC   | DC Inch | LCF | OAL | DCON |
|----------|------|---------|-----|-----|------|----------|------|---------|-----|-----|------|
| 32210300 | 3    | -       | 34  | 72  | 4    | 32210670 | 6,7  | -       | 66  | 106 | 8    |
| 32210310 | 3,1  | -       | 43  | 81  | 4    | 32210675 | 6,75 | 17/64   | 66  | 106 | 8    |
| 32210317 | 3,17 | 1/8     | 43  | 81  | 4    | 32210680 | 6,8  | -       | 66  | 106 | 8    |
| 32210320 | 3,2  | -       | 43  | 81  | 4    | 32210690 | 6,9  | -       | 76  | 116 | 8    |
| 32210330 | 3,3  | -       | 43  | 81  | 4    | 32210700 | 7    | -       | 76  | 116 | 8    |
| 32210340 | 3,4  | -       | 43  | 81  | 4    | 32210710 | 7,1  | -       | 76  | 116 | 8    |
| 32210350 | 3,5  | -       | 43  | 81  | 4    | 32210714 | 7,14 | 9/32    | 76  | 116 | 8    |
| 32210357 | 3,57 | 9/64    | 43  | 81  | 4    | 32210720 | 7,2  | -       | 76  | 116 | 8    |
| 32210360 | 3,6  | -       | 43  | 81  | 4    | 32210730 | 7,3  | -       | 76  | 116 | 8    |
| 32210370 | 3,7  | -       | 43  | 81  | 4    | 32210740 | 7,4  | -       | 76  | 116 | 8    |
| 32210380 | 3,8  | -       | 43  | 81  | 4    | 32210750 | 7,5  | -       | 76  | 116 | 8    |
| 32210390 | 3,9  | -       | 43  | 81  | 4    | 32210754 | 7,54 | 19/64   | 76  | 116 | 8    |
| 32210397 | 3,97 | 5/32    | 43  | 81  | 4    | 32210760 | 7,6  | -       | 76  | 116 | 8    |
| 32210400 | 4    | -       | 43  | 81  | 4    | 32210770 | 7,7  | -       | 76  | 116 | 8    |
| 32210410 | 4,1  | -       | 50  | 90  | 6    | 32210780 | 7,8  | -       | 76  | 116 | 8    |
| 32210420 | 4,2  | -       | 50  | 90  | 6    | 32210790 | 7,9  | -       | 76  | 116 | 8    |
| 32210430 | 4,3  | -       | 50  | 90  | 6    | 32210794 | 7,94 | 5/16    | 76  | 116 | 8    |
| 32210437 | 4,37 | 11/64   | 50  | 90  | 6    | 32210800 | 8    | -       | 76  | 116 | 8    |
| 32210440 | 4,4  | -       | 50  | 90  | 6    | 32210810 | 8,1  | -       | 87  | 131 | 10   |
| 32210450 | 4,5  | -       | 50  | 90  | 6    | 32210820 | 8,2  | -       | 87  | 131 | 10   |
| 32210460 | 4,6  | -       | 50  | 90  | 6    | 32210830 | 8,3  | -       | 87  | 131 | 10   |
| 32210470 | 4,7  | -       | 50  | 90  | 6    | 32210833 | 8,33 | 21/64   | 87  | 131 | 10   |
| 32210476 | 4,76 | 3/16    | 50  | 90  | 6    | 32210840 | 8,4  | -       | 87  | 131 | 10   |
| 32210480 | 4,8  | -       | 50  | 90  | 6    | 32210850 | 8,5  | -       | 87  | 131 | 10   |
| 32210490 | 4,9  | -       | 50  | 90  | 6    | 32210860 | 8,6  | -       | 87  | 131 | 10   |
| 32210500 | 5    | -       | 50  | 90  | 6    | 32210870 | 8,7  | -       | 87  | 131 | 10   |
| 32210510 | 5,1  | -       | 57  | 97  | 6    | 32210873 | 8,73 | 11/32   | 87  | 131 | 10   |
| 32210516 | 5,16 | 13/64   | 57  | 97  | 6    | 32210880 | 8,8  | -       | 87  | 131 | 10   |
| 32210520 | 5,2  | -       | 57  | 97  | 6    | 32210890 | 8,9  | -       | 87  | 131 | 10   |
| 32210530 | 5,3  | -       | 57  | 97  | 6    | 32210900 | 9    | -       | 87  | 131 | 10   |
| 32210540 | 5,4  | -       | 57  | 97  | 6    | 32210910 | 9,1  | -       | 95  | 139 | 10   |
| 32210550 | 5,5  | -       | 57  | 97  | 6    | 32210913 | 9,13 | 23/64   | 95  | 139 | 10   |
| 32210556 | 5,56 | 7/32    | 57  | 97  | 6    | 32210920 | 9,2  | -       | 95  | 139 | 10   |
| 32210560 | 5,6  | -       | 57  | 97  | 6    | 32210930 | 9,3  | -       | 95  | 139 | 10   |
| 32210570 | 5,7  | -       | 57  | 97  | 6    | 32210940 | 9,4  | -       | 95  | 139 | 10   |
| 32210580 | 5,8  | -       | 57  | 97  | 6    | 32210950 | 9,5  | -       | 95  | 139 | 10   |
| 32210590 | 5,9  | -       | 57  | 97  | 6    | 32210952 | 9,52 | 3/8     | 95  | 139 | 10   |
| 32210595 | 5,95 | 15/64   | 57  | 97  | 6    | 32210960 | 9,6  | -       | 95  | 139 | 10   |
| 32210600 | 6    | -       | 57  | 97  | 6    | 32210970 | 9,7  | -       | 95  | 139 | 10   |
| 32210610 | 6,1  | -       | 66  | 106 | 8    | 32210980 | 9,8  | -       | 95  | 139 | 10   |
| 32210620 | 6,2  | -       | 66  | 106 | 8    | 32210990 | 9,9  | -       | 95  | 139 | 10   |
| 32210630 | 6,3  | -       | 66  | 106 | 8    | 32210992 | 9,92 | 25/64   | 95  | 139 | 10   |
| 32210635 | 6,35 | 1/4     | 66  | 106 | 8    | 32211000 | 10   | -       | 95  | 139 | 10   |
| 32210640 | 6,4  | -       | 66  | 106 | 8    | 32211010 | 10,1 | -       | 106 | 155 | 12   |
| 32210650 | 6,5  | -       | 66  | 106 | 8    | 32211020 | 10,2 | -       | 106 | 155 | 12   |
| 32210660 | 6,6  | -       | 66  | 106 | 8    | 32211030 | 10,3 | -       | 106 | 155 | 12   |

# HYP-HPO-8D

Drilling | Solid carbide | 8xD



- Carbide drill with internal coolant, EgiAs coating
- Up to 8xD
- General purpose
- 134 sizes

|                        |                              |                         |                   |                    |                  |                   |                         |                         |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|
| <b>P</b> ○<br>C < 0,2% | <b>P</b> ●<br>0,25 < C < 0,4 | <b>P</b> ●<br>C ≥ 0,45% | <b>P</b> ●<br>SCM | <b>M</b> ○<br>INOX | <b>K</b> ●<br>GG | <b>K</b> ●<br>GGG | <b>H</b> ●<br>25-35 HRC | <b>H</b> ○<br>35-45 HRC |
|------------------------|------------------------------|-------------------------|-------------------|--------------------|------------------|-------------------|-------------------------|-------------------------|

|  |                |              |            |                   |  |             |           |             |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|-------------|
|  | <b>CARBIDE</b> | <b>EgiAs</b> | <b>30°</b> | <b>SHRINK FIT</b> |  | <b>140°</b> | <b>m7</b> | <br>Page 23 |
|--|----------------|--------------|------------|-------------------|--|-------------|-----------|-------------|

| EDP      | DC    | DC Inch | LCF | OAL | DCON | EDP | DC | DC Inch | LCF | OAL | DCON |
|----------|-------|---------|-----|-----|------|-----|----|---------|-----|-----|------|
| 32211032 | 10,32 | 13/32   | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211040 | 10,4  | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211050 | 10,5  | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211060 | 10,6  | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211070 | 10,7  | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211072 | 10,72 | 27/64   | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211080 | 10,8  | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211090 | 10,9  | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211100 | 11    | -       | 106 | 155 | 12   |     |    |         |     |     |      |
| 32211110 | 11,1  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211111 | 11,11 | 7/16    | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211120 | 11,2  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211130 | 11,3  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211140 | 11,4  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211150 | 11,5  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211151 | 11,51 | 29/64   | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211160 | 11,6  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211170 | 11,7  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211180 | 11,8  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211190 | 11,9  | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211191 | 11,91 | 15/32   | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211200 | 12    | -       | 114 | 163 | 12   |     |    |         |     |     |      |
| 32211230 | 12,3  | 31/64   | 133 | 182 | 14   |     |    |         |     |     |      |
| 32211250 | 12,5  | -       | 133 | 182 | 14   |     |    |         |     |     |      |
| 32211270 | 12,7  | 1/2     | 133 | 182 | 14   |     |    |         |     |     |      |
| 32211300 | 13    | -       | 133 | 182 | 14   |     |    |         |     |     |      |
| 32211350 | 13,5  | -       | 133 | 182 | 14   |     |    |         |     |     |      |
| 32211400 | 14    | -       | 133 | 182 | 14   |     |    |         |     |     |      |
| 32211429 | 14,29 | 9/16    | 152 | 204 | 16   |     |    |         |     |     |      |
| 32211450 | 14,5  | -       | 152 | 204 | 16   |     |    |         |     |     |      |
| 32211500 | 15    | -       | 152 | 204 | 16   |     |    |         |     |     |      |
| 32211550 | 15,5  | -       | 152 | 204 | 16   |     |    |         |     |     |      |
| 32211587 | 15,87 | 5/8     | 152 | 204 | 16   |     |    |         |     |     |      |
| 32211600 | 16    | -       | 152 | 204 | 16   |     |    |         |     |     |      |
| 32211650 | 16,5  | -       | 171 | 223 | 18   |     |    |         |     |     |      |
| 32211700 | 17    | -       | 171 | 223 | 18   |     |    |         |     |     |      |
| 32211750 | 17,5  | -       | 171 | 223 | 18   |     |    |         |     |     |      |
| 32211800 | 18    | -       | 171 | 223 | 18   |     |    |         |     |     |      |
| 32211850 | 18,5  | -       | 190 | 244 | 20   |     |    |         |     |     |      |
| 32211900 | 19    | -       | 190 | 244 | 20   |     |    |         |     |     |      |
| 32211950 | 19,5  | -       | 190 | 244 | 20   |     |    |         |     |     |      |
| 32212000 | 20    | -       | 190 | 244 | 20   |     |    |         |     |     |      |

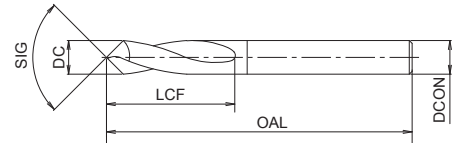
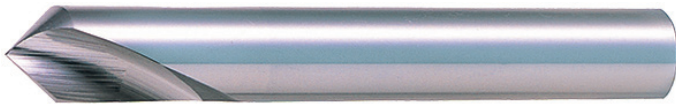
Drilling | Solid carbide



8xD

# HYP-LDS

## Drilling | Spotting & Chamfering



- Carbide drill for centring and chamfering, bright finish
- With 90°, 120° or 142° point angle
- For steels and cast iron
- 24 sizes



| EDP      | DC | SIG | LCF | OAL | DCON | EDP | DC | SIG | LCF | OAL | DCON |
|----------|----|-----|-----|-----|------|-----|----|-----|-----|-----|------|
| 20900300 | 3  | 90  | 8   | 35  | 3    |     |    |     |     |     |      |
| 21200300 | 3  | 120 | 8   | 35  | 3    |     |    |     |     |     |      |
| 21420300 | 3  | 142 | 8   | 35  | 3    |     |    |     |     |     |      |
| 20900400 | 4  | 90  | 10  | 40  | 4    |     |    |     |     |     |      |
| 21200400 | 4  | 120 | 10  | 40  | 4    |     |    |     |     |     |      |
| 21420400 | 4  | 142 | 10  | 40  | 4    |     |    |     |     |     |      |
| 20900600 | 6  | 90  | 16  | 50  | 6    |     |    |     |     |     |      |
| 21200600 | 6  | 120 | 16  | 50  | 6    |     |    |     |     |     |      |
| 21420600 | 6  | 142 | 16  | 50  | 6    |     |    |     |     |     |      |
| 20900800 | 8  | 90  | 23  | 60  | 8    |     |    |     |     |     |      |
| 21200800 | 8  | 120 | 23  | 60  | 8    |     |    |     |     |     |      |
| 21420800 | 8  | 142 | 23  | 60  | 8    |     |    |     |     |     |      |
| 20901000 | 10 | 90  | 24  | 70  | 10   |     |    |     |     |     |      |
| 21201000 | 10 | 120 | 24  | 70  | 10   |     |    |     |     |     |      |
| 21421000 | 10 | 142 | 24  | 70  | 10   |     |    |     |     |     |      |
| 20901200 | 12 | 90  | 25  | 70  | 12   |     |    |     |     |     |      |
| 21201200 | 12 | 120 | 25  | 70  | 12   |     |    |     |     |     |      |
| 21421200 | 12 | 142 | 25  | 70  | 12   |     |    |     |     |     |      |
| 20901600 | 16 | 90  | 30  | 80  | 16   |     |    |     |     |     |      |
| 21201600 | 16 | 120 | 30  | 80  | 16   |     |    |     |     |     |      |
| 21421600 | 16 | 142 | 30  | 80  | 16   |     |    |     |     |     |      |
| 20902000 | 20 | 90  | 35  | 100 | 20   |     |    |     |     |     |      |
| 21202000 | 20 | 120 | 35  | 100 | 20   |     |    |     |     |     |      |
| 21422000 | 20 | 142 | 35  | 100 | 20   |     |    |     |     |     |      |

## HYP-LDS

| Vc            | C≤0,2%<br>St40<br>~ 500 N/mm² |                | Carbon Steel<br>CK45<br>500 ~ 710 N/mm² |                | SCM<br>SCM440<br>710 ~ 900 N/mm² |                | Special Steel<br>SKD61<br>28 HRC |                | Special Steel<br>SKD11<br>34 HRC |                | GG<br>GG25<br>~ 350 N/mm² |                | AC<br>AC4D     |                |
|---------------|-------------------------------|----------------|---|----------------|----------------------------------|----------------|----------------------------------|----------------|----------------------------------|----------------|---------------------------|----------------|----------------|----------------|
|               | S<br>(min⁻¹)                  | F<br>(mm/rev.) | S<br>(min⁻¹)                            | F<br>(mm/rev.) | S<br>(min⁻¹)                     | F<br>(mm/rev.) | S<br>(min⁻¹)                     | F<br>(mm/rev.) | S<br>(min⁻¹)                     | F<br>(mm/rev.) | S<br>(min⁻¹)              | F<br>(mm/rev.) | S<br>(min⁻¹)   | F<br>(mm/rev.) |
| 63 ~ 80 m/min |                               |                | 40 ~ 63 m/min                           |                | 32 ~ 50 m/min                    |                | 20 ~ 28 m/min                    |                | 16 ~ 22 m/min                    |                | 63 ~ 100 m/min            |                | 80 ~ 160 m/min |                |
| 3             | 7.500                         | 0,04~0,08      | 5.500                                   | 0,04~0,08      | 4.500                            | 0,04~0,08      | 2.500                            | 0,04~0,08      | 2.000                            | 0,04~0,08      | 8.000                     | 0,05~0,09      | 12.000         | 0,10~0,22      |
| 4             | 5.700                         | 0,05~0,10      | 4.100                                   | 0,05~0,10      | 3.300                            | 0,05~0,10      | 1.900                            | 0,05~0,10      | 1.500                            | 0,05~0,10      | 6.500                     | 0,07~0,12      | 9.500          | 0,12~0,25      |
| 6             | 3.800                         | 0,06~0,12      | 2.700                                   | 0,06~0,12      | 2.300                            | 0,06~0,12      | 1.250                            | 0,06~0,12      | 1.000                            | 0,06~0,12      | 4.300                     | 0,12~0,18      | 6.400          | 0,14~0,28      |
| 8             | 2.800                         | 0,08~0,15      | 2.000                                   | 0,08~0,15      | 1.700                            | 0,08~0,15      | 950                              | 0,08~0,15      | 750                              | 0,08~0,15      | 3.200                     | 0,13~0,20      | 4.800          | 0,18~0,32      |
| 10            | 2.300                         | 0,10~0,18      | 1.700                                   | 0,10~0,18      | 1.400                            | 0,10~0,18      | 750                              | 0,10~0,18      | 600                              | 0,10~0,18      | 2.600                     | 0,17~0,25      | 3.800          | 0,22~0,36      |
| 12            | 1.900                         | 0,12~0,21      | 1.400                                   | 0,12~0,21      | 1.200                            | 0,12~0,21      | 650                              | 0,12~0,21      | 500                              | 0,12~0,21      | 2.200                     | 0,21~0,30      | 3.200          | 0,25~0,40      |
| 16            | 1.400                         | 0,16~0,28      | 1.000                                   | 0,16~0,28      | 900                              | 0,16~0,28      | 500                              | 0,16~0,28      | 380                              | 0,16~0,28      | 1.600                     | 0,24~0,32      | 2.400          | 0,32~0,48      |
| 20            | 1.150                         | 0,20~0,34      | 820                                     | 0,20~0,34      | 700                              | 0,20~0,34      | 400                              | 0,20~0,34      | 300                              | 0,20~0,34      | 1.300                     | 0,26~0,40      | 1.900          | 0,40~0,60      |
| 25            | 900                           | 0,25~0,45      | 650                                     | 0,25~0,45      | 560                              | 0,25~0,45      | 300                              | 0,25~0,45      | 250                              | 0,25~0,45      | 1.000                     | 0,30~0,50      | 1.500          | 0,50~0,75      |





# CUTTING CONDITIONS

Drilling | Solid | Cutting conditions

## HYP-HP-3D/HYP-HPO-3D/-HE/-HB


Standard drilling


|  | Steel                   |                         |                          | Cu             | A5052 /A7075   | Al<br>< 13% Si<br>< 130 HB |
|---|-------------------------|-------------------------|--------------------------|----------------|----------------|----------------------------|
|   | < 700 N/mm <sup>2</sup> | < 850 N/mm <sup>2</sup> | < 1000 N/mm <sup>2</sup> |                |                |                            |
| Vc  | 100 ~ 150 m/min         | 80 ~ 120 m/min          | 70 ~ 110 m/min           | 50 ~ 90 m/min  | 60 ~ 110 m/min | 120 ~ 220 m/min            |
| Ø   | F<br>(mm/rev.)          | F<br>(mm/rev.)          | F<br>(mm/rev.)           | F<br>(mm/rev.) | F<br>(mm/rev.) | F<br>(mm/rev.)             |
| 3   | 0,09~0,12               | 0,09~0,12               | 0,09~0,12                | 0,02~0,03      | 0,09~0,20      | 0,09~0,28                  |
| 4   | 0,10~0,15               | 0,10~0,15               | 0,10~0,15                | 0,02~0,04      | 0,10~0,24      | 0,10~0,38                  |
| 5   | 0,12~0,18               | 0,12~0,18               | 0,12~0,18                | 0,03~0,05      | 0,12~0,28      | 0,12~0,40                  |
| 6   | 0,14~0,20               | 0,14~0,20               | 0,14~0,20                | 0,03~0,06      | 0,14~0,34      | 0,14~0,48                  |
| 8   | 0,16~0,24               | 0,16~0,24               | 0,16~0,24                | 0,04~0,08      | 0,16~0,38      | 0,16~0,53                  |
| 10  | 0,18~0,27               | 0,18~0,27               | 0,18~0,27                | 0,05~0,10      | 0,18~0,45      | 0,18~0,63                  |
| 12  | 0,20~0,30               | 0,20~0,30               | 0,20~0,30                | 0,06~0,12      | 0,20~0,53      | 0,20~0,75                  |
| 14  | 0,22~0,35               | 0,22~0,35               | 0,22~0,35                | 0,08~0,16      | 0,22~0,57      | 0,22~0,81                  |
| 16  | 0,25~0,36               | 0,25~0,36               | 0,25~0,36                | 0,10~0,18      | 0,25~0,61      | 0,25~0,85                  |
| 18  | 0,28~0,38               | 0,28~0,38               | 0,28~0,38                | 0,12~0,20      | 0,28~0,63      | 0,28~0,90                  |
| 20  | 0,30~0,40               | 0,30~0,40               | 0,30~0,40                | 0,20~0,28      | 0,28~0,68      | 0,30~0,98                  |

|  | GG (G)          |                 | SUS            | High-Alloy Steel         | Special Alloys | Hardened Steel |
|---|-----------------|-----------------|----------------|--------------------------|----------------|----------------|
|   | < 180 HB        | < 300 HB        | < 820 HB       | < 1200 N/mm <sup>2</sup> | < 30 HRC       | < 60 HRC       |
| Vc  | 150 ~ 200 m/min | 100 ~ 150 m/min | 40 ~ 50 m/min  | 50 ~ 60 m/min            | 15 ~ 25 m/min  | 15 ~ 25 m/min  |
| Ø   | F<br>(mm/rev.)  | F<br>(mm/rev.)  | F<br>(mm/rev.) | F<br>(mm/rev.)           | F<br>(mm/rev.) | F<br>(mm/rev.) |
| 3   | 0,12~0,15       | 0,12~0,15       | 0,09~0,12      | 0,07~0,11                | 0,05~0,09      | 0,03~0,05      |
| 4   | 0,13~0,18       | 0,13~0,18       | 0,10~0,15      | 0,08~0,13                | 0,06~0,10      | 0,04~0,06      |
| 5   | 0,15~0,22       | 0,15~0,22       | 0,12~0,18      | 0,10~0,15                | 0,08~0,12      | 0,05~0,07      |
| 6   | 0,18~0,25       | 0,18~0,25       | 0,14~0,20      | 0,12~0,18                | 0,09~0,15      | 0,05~0,07      |
| 8   | 0,20~0,30       | 0,20~0,30       | 0,16~0,24      | 0,14~0,22                | 0,12~0,20      | 0,06~0,08      |
| 10  | 0,23~0,33       | 0,23~0,33       | 0,18~0,27      | 0,15~0,25                | 0,13~0,23      | 0,07~0,10      |
| 12  | 0,25~0,38       | 0,25~0,38       | 0,20~0,30      | 0,17~0,26                | 0,14~0,24      | 0,09~0,12      |
| 14  | 0,30~0,43       | 0,30~0,43       | 0,22~0,35      | 0,18~0,30                | 0,15~0,26      | 0,10~0,13      |
| 16  | 0,35~0,50       | 0,35~0,50       | 0,25~0,36      | 0,20~0,32                | 0,16~0,26      | 0,10~0,13      |
| 18  | 0,38~0,55       | 0,38~0,55       | 0,28~0,38      | 0,23~0,33                | 0,18~0,28      | 0,12~0,16      |
| 20  | 0,40~0,63       | 0,40~0,63       | 0,30~0,40      | 0,25~0,35                | 0,20~0,30      | 0,14~0,18      |

## HYP-HP-5D/HYP-HPO-5D/-HE/-HB/HYP-HPO-8D

Standard drilling

|  | Steel                   |                         |                          | Cu             | A5052 /A7075   | Al<br>< 13% Si<br>< 130 HB |
|---|-------------------------|-------------------------|--------------------------|----------------|----------------|----------------------------|
|   | < 700 N/mm <sup>2</sup> | < 850 N/mm <sup>2</sup> | < 1000 N/mm <sup>2</sup> |                |                |                            |
| Vc<br>( < Ø3 )  | 40 ~ 60 m/min           | 40 ~ 60 m/min           | 40 ~ 60 m/min            | 20 ~ 50 m/min  | 40 ~ 60 m/min  | 50 ~ 70 m/min              |
| Vc  | 100 ~ 150 m/min         | 80 ~ 120 m/min          | 70 ~ 110 m/min           | 50 ~ 90 m/min  | 60 ~ 110 m/min | 120 ~ 220 m/min            |
| Ø   | F<br>(mm/rev.)          | F<br>(mm/rev.)          | F<br>(mm/rev.)           | F<br>(mm/rev.) | F<br>(mm/rev.) | F<br>(mm/rev.)             |
| 1   | 0,01~0,03               | 0,01~0,03               | 0,01~0,03                | 0,007~0,01     | 0,01~0,03      | 0,02~0,06                  |
| 2   | 0,02 ~ 0,06             | 0,02 ~ 0,06             | 0,02 ~ 0,06              | 0,014~0,02     | 0,02 ~ 0,06    | 0,04~0,12                  |
| 3   | 0,09~0,12               | 0,09~0,12               | 0,09~0,12                | 0,02~0,03      | 0,09~0,20      | 0,09~0,28                  |
| 4   | 0,10~0,15               | 0,10~0,15               | 0,10~0,15                | 0,02~0,04      | 0,10~0,24      | 0,10~0,38                  |
| 5   | 0,12~0,18               | 0,12~0,18               | 0,12~0,18                | 0,03~0,05      | 0,12~0,28      | 0,12~0,40                  |
| 6   | 0,14~0,20               | 0,14~0,20               | 0,14~0,20                | 0,03~0,06      | 0,14~0,34      | 0,14~0,48                  |
| 8   | 0,16~0,24               | 0,16~0,24               | 0,16~0,24                | 0,04~0,08      | 0,16~0,38      | 0,16~0,53                  |
| 10  | 0,18~0,27               | 0,18~0,27               | 0,18~0,27                | 0,05~0,10      | 0,18~0,45      | 0,18~0,63                  |
| 12  | 0,20~0,30               | 0,20~0,30               | 0,20~0,30                | 0,06~0,12      | 0,20~0,53      | 0,20~0,75                  |
| 14  | 0,22~0,35               | 0,22~0,35               | 0,22~0,35                | 0,08~0,16      | 0,22~0,57      | 0,22~0,81                  |
| 16  | 0,25~0,36               | 0,25~0,36               | 0,25~0,36                | 0,10~0,18      | 0,25~0,61      | 0,25~0,85                  |
| 18  | 0,28~0,38               | 0,28~0,38               | 0,28~0,38                | 0,12~0,20      | 0,28~0,63      | 0,28~0,90                  |
| 20  | 0,30~0,40               | 0,30~0,40               | 0,30~0,40                | 0,20~0,28      | 0,28~0,68      | 0,30~0,98                  |

|  | GG (G)          |                 | SUS            | High-Alloy Steel         | Special Alloys | Hardened Steel |
|---|-----------------|-----------------|----------------|--------------------------|----------------|----------------|
|   | < 180 HB        | < 300 HB        | < 820 HB       | < 1200 N/mm <sup>2</sup> | < 30 HRC       | < 60 HRC       |
| Vc<br>( < Ø3 )  | 50 ~ 60 m/min   | 50 ~ 60 m/min   | 30 ~ 50 m/min  | 40 ~ 60 m/min            | 15 ~ 20 m/min  | 15 ~ 20 m/min  |
| Vc  | 150 ~ 200 m/min | 100 ~ 150 m/min | 40 ~ 50 m/min  | 50 ~ 60 m/min            | 15 ~ 25 m/min  | 15 ~ 25 m/min  |
| Ø   | F<br>(mm/rev.)  | F<br>(mm/rev.)  | F<br>(mm/rev.) | F<br>(mm/rev.)           | F<br>(mm/rev.) | F<br>(mm/rev.) |
| 1   | 0,02~0,04       | 0,02~0,04       | 0,01 ~ 0,03    | 0,01 ~ 0,03              | 0,015~0,03     | 0,01~0,015     |
| 2   | 0,04~0,08       | 0,04~0,08       | 0,02 ~ 0,06    | 0,02 ~ 0,06              | 0,03~0,06      | 0,02 ~ 0,03    |
| 3   | 0,12~0,15       | 0,12~0,15       | 0,09~0,12      | 0,07~0,11                | 0,05~0,09      | 0,03~0,05      |
| 4   | 0,13~0,18       | 0,13~0,18       | 0,10~0,15      | 0,08~0,13                | 0,06~0,10      | 0,04~0,06      |
| 5   | 0,15~0,22       | 0,15~0,22       | 0,12~0,18      | 0,10~0,15                | 0,08~0,12      | 0,05~0,07      |
| 6   | 0,18~0,25       | 0,18~0,25       | 0,14~0,20      | 0,12~0,18                | 0,09~0,15      | 0,05~0,07      |
| 8   | 0,20~0,30       | 0,20~0,30       | 0,16~0,24      | 0,14~0,22                | 0,12~0,20      | 0,06~0,08      |
| 10  | 0,23~0,33       | 0,23~0,33       | 0,18~0,27      | 0,15~0,25                | 0,13~0,23      | 0,07~0,10      |
| 12  | 0,25~0,38       | 0,25~0,38       | 0,20~0,30      | 0,17~0,26                | 0,14~0,24      | 0,09~0,12      |
| 14  | 0,30~0,43       | 0,30~0,43       | 0,22~0,35      | 0,18~0,30                | 0,15~0,26      | 0,10~0,13      |
| 16  | 0,35~0,50       | 0,35~0,50       | 0,25~0,36      | 0,20~0,32                | 0,16~0,26      | 0,10~0,13      |
| 18  | 0,38~0,55       | 0,38~0,55       | 0,28~0,38      | 0,23~0,33                | 0,18~0,28      | 0,12~0,16      |
| 20  | 0,40~0,63       | 0,40~0,63       | 0,30~0,40      | 0,25~0,35                | 0,20~0,30      | 0,14~0,18      |



shaping your dreams

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