

PUNTE LUNGHE TWIST DRILLS, LONG SERIES LANGE SPIRALBOHRER FORETS LONGS BROCAS LARGA

CL 200



25°-30°



118°



STANDARD



CL 230

FORI PROFONDI
DEEP HOLE



35°-40°



135°



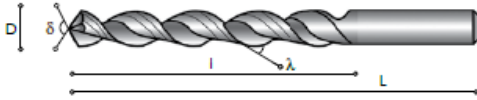
DIN 1412 C



CL200



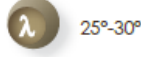
CL230



Dal Ø 0,5 al Ø 6 = 10 pz Dal Ø 6,1 al Ø 13 = 5 pz

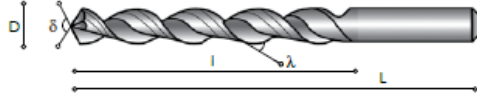
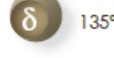
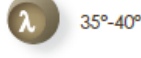
| D h8 | L | l | CODE | HSS 5200..... € | HSS+5%Co 5230..... € | HSS+5%Co 6230..... € QUARTZ | HSS+5%Co 7230..... € TITANITE |
|------|-----|----|-----------|-----------------------|----------------------------|-----------------------------------|-------------------------------------|
| 0,5 | 32 | 12 |00050 | 10,88 | | | |
| 0,6 | 35 | 15 |00060 | 8,81 | | | |
| 0,7 | 42 | 21 |00070 | 7,73 | | | |
| 0,8 | 46 | 25 |00080 | 7,23 | | | |
| 0,9 | 51 | 29 |00090 | 6,87 | | | |
| 1 | 56 | 33 |00100 | 4,38 | | | |
| 1,1 | 60 | 37 |00110 | 4,52 | | | |
| 1,2 | 65 | 41 |00120 | 3,86 | | | |
| 1,25 | 65 | 41 |00125 | 3,22 | | | |
| 1,3 | 65 | 41 |00130 | 3,86 | | | |
| 1,4 | 70 | 45 |00140 | 4,02 | | | |
| 1,5 | 70 | 45 |00150 | 3,22 | | | |
| 1,6 | 76 | 50 |00160 | 3,58 | | | |
| 1,7 | 76 | 50 |00170 | 3,51 | | | |
| 1,75 | 80 | 53 |00175 | 3,96 | | | |
| 1,8 | 80 | 53 |00180 | 3,51 | | | |
| 1,9 | 80 | 53 |00190 | 3,51 | | | |
| 2 | 85 | 56 |00200 | 2,57 | 5,38 | 7,84 | 9,33 |
| 2,1 | 85 | 56 |00210 | 2,72 | 5,38 | 8,17 | 9,94 |
| 2,2 | 90 | 59 |00220 | 2,72 | 5,67 | 8,48 | 10,25 |
| 2,25 | 90 | 59 |00225 | 3,36 | 6,47 | 9,38 | 11,15 |
| 2,3 | 90 | 59 |00230 | 2,72 | 5,67 | 8,48 | 10,25 |
| 2,4 | 95 | 62 |00240 | 2,72 | 5,67 | 8,48 | 10,25 |
| 2,5 | 95 | 62 |00250 | 2,72 | 5,67 | 8,48 | 10,25 |
| 2,6 | 95 | 62 |00260 | 2,93 | 5,67 | 8,48 | 10,25 |
| 2,7 | 100 | 66 |00270 | 2,93 | 5,67 | 8,48 | 10,25 |
| 2,75 | 100 | 66 |00275 | 3,72 | 6,47 | 9,38 | 11,15 |
| 2,8 | 100 | 66 |00280 | 3,15 | 5,67 | 8,48 | 10,25 |
| 2,9 | 100 | 66 |00290 | 3,43 | 5,67 | 8,48 | 10,25 |
| 3 | 100 | 66 |00300 | 2,57 | 5,67 | 8,48 | 10,25 |
| 3,1 | 106 | 69 |00310 | 3,08 | 6,94 | 10,63 | 12,91 |
| 3,2 | 106 | 69 |00320 | 3,08 | 6,66 | 10,32 | 12,61 |
| 3,25 | 106 | 69 |00325 | 3,96 | 7,66 | 11,41 | 13,70 |
| 3,3 | 106 | 69 |00330 | 3,29 | 6,66 | 10,32 | 12,61 |
| 3,4 | 112 | 73 |00340 | 3,29 | 7,09 | 10,79 | 13,07 |
| 3,5 | 112 | 73 |00350 | 3,08 | 6,01 | 9,60 | 11,88 |
| 3,6 | 112 | 73 |00360 | 3,29 | 7,45 | 11,19 | 13,48 |
| 3,7 | 112 | 73 |00370 | 3,43 | 7,45 | 11,19 | 13,48 |
| 3,75 | 112 | 73 |00375 | 4,22 | 8,16 | 11,96 | 14,25 |
| 3,8 | 119 | 78 |00380 | 3,51 | 8,02 | 11,81 | 14,09 |

CL 200



CL 230

FORI PROFONDI
DEEP HOLE



CL200

CL230



Dal Ø 0,5 al Ø 6 = 10 pz Dal Ø 6,1 al Ø 13 = 5 pz

| D h8 | L | l | CODE | HSS | HSS+5%Co | HSS+5%Co | HSS+5%Co |
|------|-----|-----|-----------|----------------|----------------|-----------------------|-------------------------|
| | | | | 5200..... € | 5230..... € | 6230..... € QUARTZ | 7230..... € TITANITE |
| 3,9 | 119 | 78 |00390 | 3,65 | 8,02 | 11,81 | 14,09 |
| 4 | 119 | 78 |00400 | 3,36 | 6,66 | 10,32 | 12,61 |
| 4,1 | 119 | 78 |00410 | 3,86 | 7,52 | 11,88 | 14,69 |
| 4,2 | 119 | 78 |00420 | 3,86 | 7,52 | 11,88 | 14,69 |
| 4,25 | 119 | 78 |00425 | 4,93 | 10,73 | 15,42 | 18,23 |
| 4,3 | 126 | 82 |00430 | 4,38 | 10,16 | 14,79 | 17,60 |
| 4,4 | 126 | 82 |00440 | 4,38 | 10,16 | 14,79 | 17,60 |
| 4,5 | 126 | 82 |00450 | 4,09 | 7,95 | 12,36 | 15,17 |
| 4,6 | 126 | 82 |00460 | 4,38 | 10,16 | 14,79 | 17,60 |
| 4,7 | 126 | 82 |00470 | 4,38 | 10,16 | 14,79 | 17,60 |
| 4,75 | 126 | 82 |00475 | 5,59 | 11,73 | 16,52 | 19,32 |
| 4,8 | 132 | 87 |00480 | 4,73 | 10,66 | 15,35 | 18,15 |
| 4,9 | 132 | 87 |00490 | 4,73 | 10,66 | 15,35 | 18,15 |
| 5 | 132 | 87 |00500 | 4,45 | 8,31 | 12,76 | 15,56 |
| 5,1 | 132 | 87 |00510 | 5,09 | 10,66 | 15,35 | 18,15 |
| 5,2 | 132 | 87 |00520 | 5,09 | 10,66 | 15,35 | 18,15 |
| 5,25 | 132 | 87 |00525 | 6,58 | 11,73 | 16,52 | 19,32 |
| 5,3 | 132 | 87 |00530 | 5,09 | 10,66 | 15,35 | 18,15 |
| 5,4 | 139 | 91 |00540 | 5,80 | 12,09 | 16,91 | 19,72 |
| 5,5 | 139 | 91 |00550 | 5,45 | 9,66 | 14,25 | 17,05 |
| 5,6 | 139 | 91 |00560 | 5,80 | 13,09 | 18,03 | 20,83 |
| 5,7 | 139 | 91 |00570 | 5,80 | 13,09 | 18,03 | 20,83 |
| 5,75 | 139 | 91 |00575 | 6,84 | 14,39 | 19,45 | 22,24 |
| 5,8 | 139 | 91 |00580 | 5,80 | 13,09 | 18,03 | 20,83 |
| 5,9 | 139 | 91 |00590 | 5,80 | 13,09 | 18,03 | 20,83 |
| 6 | 139 | 91 |00600 | 5,45 | 10,95 | 15,67 | 18,47 |
| 6,1 | 148 | 97 |00610 | 6,80 | | | |
| 6,2 | 148 | 97 |00620 | 6,80 | 16,74 | 24,26 | 28,77 |
| 6,25 | 148 | 97 |00625 | 7,36 | 18,46 | 26,15 | 30,67 |
| 6,3 | 148 | 97 |00630 | 6,80 | | | |
| 6,4 | 148 | 97 |00640 | 7,23 | | | |
| 6,5 | 148 | 97 |00650 | 6,80 | 16,74 | 24,26 | 28,77 |
| 6,6 | 148 | 97 |00660 | 7,23 | | | |
| 6,7 | 148 | 97 |00670 | 7,23 | | | |
| 6,75 | 156 | 102 |00675 | 7,95 | 18,46 | 26,15 | 30,67 |
| 6,8 | 156 | 102 |00680 | 8,38 | 18,89 | 26,63 | 31,15 |
| 6,9 | 156 | 102 |00690 | 8,38 | | | |
| 7 | 156 | 102 |00700 | 8,02 | 15,95 | 23,39 | 27,91 |
| 7,1 | 156 | 102 |00710 | 10,66 | | | |
| 7,2 | 156 | 102 |00720 | 10,66 | 20,67 | 28,59 | 33,10 |



| D h8 | L | I | CODE | HSS 5200..... € | HSS+5%Co 5230..... € | HSS+5%Co 6230..... € QUARTZ | HSS+5%Co 7230..... € TITANITE |
|-------|-----|-----|----------|-----------------------|----------------------------|-----------------------------------|-------------------------------------|
| 7,25 | 156 | 102 | ...00725 | 9,53 | 22,75 | 30,88 | 35,39 |
| 7,3 | 156 | 102 | ...00730 | 10,66 | | | |
| 7,4 | 156 | 102 | ...00740 | 10,66 | | | |
| 7,5 | 156 | 102 | ...00750 | 8,45 | 18,03 | 25,68 | 30,19 |
| 7,6 | 165 | 109 | ...00760 | 11,09 | | | |
| 7,7 | 165 | 109 | ...00770 | 11,09 | | | |
| 7,75 | 165 | 109 | ...00775 | 10,46 | 24,40 | 32,68 | 37,20 |
| 7,8 | 165 | 109 | ...00780 | 11,16 | 22,10 | 30,16 | 34,67 |
| 7,9 | 165 | 109 | ...00790 | 11,09 | | | |
| 8 | 165 | 109 | ...00800 | 9,66 | 18,46 | 26,15 | 30,67 |
| 8,1 | 165 | 109 | ...00810 | 11,95 | | | |
| 8,2 | 165 | 109 | ...00820 | 11,95 | 22,25 | 31,15 | 36,31 |
| 8,25 | 165 | 109 | ...00825 | 10,80 | 24,54 | 33,65 | 38,83 |
| 8,3 | 165 | 109 | ...00830 | 11,95 | | | |
| 8,4 | 165 | 109 | ...00840 | 11,95 | | | |
| 8,5 | 165 | 109 | ...00850 | 10,73 | 20,67 | 29,40 | 34,57 |
| 8,6 | 175 | 115 | ...00860 | 14,67 | | | |
| 8,7 | 175 | 115 | ...00870 | 14,67 | | | |
| 8,75 | 175 | 115 | ...00875 | 12,93 | 25,09 | 34,27 | 39,43 |
| 8,8 | 175 | 115 | ...00880 | 14,67 | 22,82 | 31,77 | 36,94 |
| 8,9 | 175 | 115 | ...00890 | 14,67 | | | |
| 9 | 175 | 115 | ...00900 | 11,45 | 21,67 | 30,51 | 35,67 |
| 9,1 | 175 | 115 | ...00910 | 15,68 | | | |
| 9,2 | 175 | 115 | ...00920 | 15,68 | 29,26 | 38,85 | 44,02 |
| 9,25 | 175 | 115 | ...00925 | 14,23 | 32,26 | 42,16 | 47,32 |
| 9,3 | 175 | 115 | ...00930 | 15,68 | | | |
| 9,4 | 175 | 115 | ...00940 | 15,68 | | | |
| 9,5 | 175 | 115 | ...00950 | 13,16 | 28,26 | 37,75 | 42,92 |
| 9,6 | 184 | 121 | ...00960 | 15,68 | | | |
| 9,7 | 184 | 121 | ...00970 | 15,39 | | | |
| 9,75 | 184 | 121 | ...00975 | 15,26 | 43,27 | 56,90 | 64,08 |
| 9,8 | 184 | 121 | ...00980 | 15,75 | 39,34 | 52,57 | 59,77 |
| 9,9 | 184 | 121 | ...00990 | 15,75 | | | |
| 10 | 184 | 121 | ...01000 | 13,23 | 29,76 | 42,04 | 49,22 |
| 10,1 | 184 | 121 | ...01010 | 17,10 | | | |
| 10,2 | 184 | 121 | ...01020 | 17,10 | | | |
| 10,25 | 184 | 121 | ...01025 | 17,38 | 50,35 | 64,69 | 71,87 |
| 10,3 | 184 | 121 | ...01030 | 17,10 | | | |
| 10,4 | 184 | 121 | ...01040 | 17,10 | | | |
| 10,5 | 184 | 121 | ...01050 | 17,38 | 45,78 | 59,66 | 66,84 |
| 10,6 | 195 | 128 | ...01060 | 17,10 | | | |
| 10,7 | 195 | 128 | ...01070 | 19,95 | | | |
| 10,75 | 195 | 128 | ...01075 | 20,38 | 57,51 | 72,57 | 79,75 |
| 10,8 | 195 | 128 | ...01080 | 19,95 | | | |
| 10,9 | 195 | 128 | ...01090 | 19,95 | | | |
| 11 | 195 | 128 | ...01100 | 19,10 | 42,98 | 56,59 | 63,77 |
| 11,1 | 195 | 128 | ...01110 | 18,75 | | | |
| 11,2 | 195 | 128 | ...01120 | 22,06 | | | |
| 11,25 | 195 | 128 | ...01125 | 22,52 | 63,29 | 78,92 | 86,11 |
| 11,3 | 195 | 128 | ...01130 | 22,06 | | | |
| 11,4 | 195 | 128 | ...01140 | 22,06 | | | |
| 11,5 | 195 | 128 | ...01150 | 19,52 | 57,51 | 72,57 | 79,75 |
| 11,6 | 195 | 128 | ...01160 | 21,35 | | | |
| 11,7 | 195 | 128 | ...01170 | 24,23 | | | |
| 11,75 | 195 | 128 | ...01175 | 24,70 | 68,44 | 84,58 | 91,77 |
| 11,8 | 205 | 134 | ...01180 | 22,39 | | | |
| 11,9 | 205 | 134 | ...01190 | 22,39 | | | |
| 12 | 205 | 134 | ...01200 | 21,67 | 58,50 | 73,65 | 80,83 |
| 12,1 | 205 | 134 | ...01210 | 23,95 | | | |
| 12,2 | 205 | 134 | ...01220 | 23,95 | | | |
| 12,25 | 205 | 134 | ...01225 | 26,01 | 69,23 | 87,12 | 95,58 |
| 12,3 | 205 | 134 | ...01230 | 23,60 | | | |
| 12,4 | 205 | 134 | ...01240 | 23,60 | | | |

