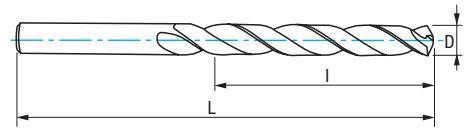


Ref. **1030**

BROCA MANGO CILÍNDRICO HSS. SERIE LARGA

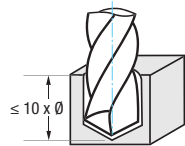
HSS Straight Shank Drill Bit. Long Series

Foret queue cylindrique HSS. Série longue



| | | | | | | | | |
|-----|-----------|-----------|------|--|--|-------------|------------------------------------|-----------|
| HSS | HSS + TIN | DIN 340 N | 118° | | | Blue Finish | Rectificado Ground Taillé meulé | Tol. D h8 |
|-----|-----------|-----------|------|--|--|-------------|------------------------------------|-----------|

HSS **TIN** **x2,5** Resistencia al desgaste
Wear Resistance
Résistant à l'usure



| Material | | Vc (m/min) | | Avances f/rev. (mm/rev) - Feed - Pas | | | | | | | | | |
|----------|-------|------------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Grupo | Sub. | HSS | TIN | Ø 2 | Ø 3 | Ø 4 | Ø 5 | Ø 6 | Ø 8 | Ø 10 | Ø 12 | Ø 16 | Ø 20 |
| P | P.1 | 25-30 | 30-35 | 0,045 | 0,055 | 0,070 | 0,080 | 0,100 | 0,120 | 0,150 | 0,160 | 0,180 | 0,250 |
| | K | 30-35 | 36-42 | 0,060 | 0,090 | 0,100 | 0,120 | 0,150 | 0,180 | 0,210 | 0,250 | 0,300 | 0,360 |
| N | K.2 | 25-30 | 30-36 | 0,050 | 0,070 | 0,080 | 0,100 | 0,120 | 0,140 | 0,170 | 0,200 | 0,240 | 0,280 |
| | N.3 | 60-80 | 72-96 | 0,080 | 0,110 | 0,130 | 0,150 | 0,190 | 0,220 | 0,260 | 0,320 | 0,380 | 0,450 |
| | N.4 | | | 0,080 | 0,110 | 0,130 | 0,150 | 0,190 | 0,220 | 0,260 | 0,320 | 0,380 | 0,450 |
| N.5 | 40-50 | 48-60 | 0,060 | 0,090 | 0,100 | 0,120 | 0,150 | 0,180 | 0,210 | 0,250 | 0,300 | 0,360 | |

$$r.p.m. = \frac{Vc \times 1.000}{\pi \times \phi}$$

$$Vf (mm/min.) = r.p.m. \times f$$

* Se recomienda reducir el avance entre 2/3 y 1/2

* It is recommended to reduce feed between 2/3 & 1/2

* On conseille réduire l'avance entre 2/3 et 1/2


| D mm | L mm | I mm | | N° Art. HSS | € | N° Art. TIN | € |
|------------------|------|------|----|-------------|------|-------------|------|
| 0,50 | 32 | 12 | 10 | 26656 | 5,60 | | |
| 0,60 | 35 | 15 | 10 | 26658 | 4,55 | | |
| 0,70 | 42 | 21 | 10 | 19467 | 4,55 | | |
| 0,80 | 46 | 25 | 10 | 24592 | 4,55 | | |
| 0,90 | 51 | 29 | 10 | 26659 | 4,55 | | |
| 1,00 | 56 | 33 | 10 | 11573 | 4,60 | 27465 | 5,73 |
| 1,10 | 60 | 37 | 10 | 11576 | 4,47 | 27466 | 5,60 |
| 1,20 | 65 | 41 | 10 | 11579 | 4,47 | 27467 | 5,60 |
| 1,25 | 65 | 41 | 10 | 11582 | 4,61 | 27468 | 5,76 |
| 1,30 | 65 | 41 | 10 | 11585 | 4,47 | 27111 | 5,60 |
| 1,40 | 70 | 45 | 10 | 11588 | 4,47 | 27469 | 5,60 |
| New! 1,45 | 70 | 45 | 10 | 31704 | 4,47 | 31706 | 5,60 |
| 1,50 | 70 | 45 | 10 | 11591 | 3,32 | 27470 | 4,43 |
| 1,60 | 76 | 50 | 10 | 11594 | 4,47 | 27471 | 5,60 |
| 1,70 | 76 | 50 | 10 | 11597 | 4,47 | 27472 | 5,60 |
| 1,75 | 80 | 53 | 10 | 11600 | 3,70 | 27473 | 4,81 |
| 1,80 | 80 | 53 | 10 | 11603 | 3,55 | 27141 | 4,71 |
| 1,90 | 80 | 53 | 10 | 11606 | 3,55 | 27474 | 4,71 |
| 2,00 | 85 | 56 | 10 | 11609 | 2,35 | 27145 | 3,52 |
| 2,10 | 85 | 56 | 10 | 11612 | 3,24 | 27146 | 4,28 |
| 2,20 | 90 | 59 | 10 | 11615 | 3,24 | 27475 | 4,28 |
| 2,25 | 90 | 59 | 10 | 11618 | 2,59 | 27476 | 3,63 |
| 2,30 | 90 | 59 | 10 | 11621 | 3,12 | 27142 | 4,17 |
| 2,40 | 95 | 62 | 10 | 11624 | 3,12 | 27477 | 4,17 |
| 2,50 | 95 | 62 | 10 | 11627 | 2,35 | 27478 | 3,39 |
| 2,60 | 95 | 62 | 10 | 11630 | 3,12 | 27479 | 4,17 |
| 2,70 | 100 | 66 | 10 | 11633 | 3,12 | 27144 | 4,17 |
| 2,75 | 100 | 66 | 10 | 11636 | 3,24 | 27480 | 4,29 |
| 2,80 | 100 | 66 | 10 | 11639 | 3,12 | 27143 | 4,17 |
| 2,90 | 100 | 66 | 10 | 11642 | 3,12 | 27147 | 4,17 |
| 3,00 | 100 | 66 | 10 | 11645 | 2,19 | 20132 | 3,22 |
| 3,10 | 106 | 69 | 10 | 11648 | 2,43 | 27220 | 3,74 |
| 3,20 | 106 | 69 | 10 | 11651 | 2,43 | 27217 | 3,74 |
| 3,25 | 106 | 69 | 10 | 11654 | 2,43 | 27213 | 3,74 |


| D mm | L mm | I mm | | N° Art. HSS | € | N° Art. TIN | € |
|------|------|------|----|-------------|------|-------------|------|
| 3,30 | 106 | 69 | 10 | 11657 | 2,43 | 27210 | 3,74 |
| 3,40 | 112 | 73 | 10 | 11660 | 3,12 | 27167 | 4,42 |
| 3,50 | 112 | 73 | 10 | 11663 | 2,30 | 27211 | 3,61 |
| 3,60 | 112 | 73 | 10 | 11666 | 3,12 | 27515 | 4,42 |
| 3,70 | 112 | 73 | 10 | 11669 | 3,12 | 28267 | 4,42 |
| 3,75 | 112 | 73 | 10 | 11672 | 3,24 | 27218 | 4,58 |
| 3,80 | 119 | 78 | 10 | 11675 | 3,89 | 27221 | 5,20 |
| 3,90 | 119 | 78 | 10 | 11678 | 3,89 | 27222 | 5,20 |
| 4,00 | 119 | 78 | 10 | 11681 | 2,49 | 27216 | 3,82 |
| 4,10 | 119 | 78 | 10 | 11684 | 3,26 | 27219 | 4,59 |
| 4,20 | 119 | 78 | 10 | 11687 | 3,26 | 27224 | 4,59 |
| 4,25 | 119 | 78 | 10 | 11690 | 3,26 | 27214 | 4,59 |
| 4,30 | 126 | 82 | 10 | 11693 | 4,21 | 27215 | 5,53 |
| 4,40 | 126 | 82 | 10 | 11696 | 4,21 | 27481 | 5,53 |
| 4,50 | 126 | 82 | 10 | 11699 | 2,97 | 27089 | 4,30 |
| 4,60 | 126 | 82 | 10 | 11702 | 4,21 | 27212 | 5,53 |
| 4,70 | 126 | 82 | 10 | 19955 | 4,21 | 27482 | 5,53 |
| 4,75 | 126 | 82 | 10 | 11705 | 4,39 | 76657 | 5,70 |
| 4,80 | 132 | 87 | 10 | 11708 | 4,87 | 27483 | 6,19 |
| 4,90 | 132 | 87 | 10 | 11711 | 4,87 | 27484 | 6,19 |
| 5,00 | 132 | 87 | 10 | 11714 | 3,19 | 27103 | 4,51 |
| 5,10 | 132 | 87 | 10 | 11717 | 4,87 | 27155 | 6,19 |
| 5,20 | 132 | 87 | 10 | 11720 | 4,87 | 27101 | 6,19 |
| 5,25 | 132 | 87 | 10 | 11723 | 5,05 | 27104 | 6,38 |
| 5,30 | 132 | 87 | 10 | 11726 | 5,29 | 76658 | 6,63 |
| 5,40 | 139 | 91 | 10 | 11729 | 5,29 | 27153 | 6,63 |
| 5,50 | 139 | 91 | 10 | 11732 | 4,20 | 27152 | 5,51 |
| 5,60 | 139 | 91 | 10 | 11735 | 5,29 | 27109 | 6,63 |
| 5,70 | 139 | 91 | 10 | 11738 | 5,29 | 27107 | 6,63 |
| 5,75 | 139 | 91 | 10 | 11741 | 5,50 | 27114 | 6,82 |
| 5,80 | 139 | 91 | 10 | 11744 | 5,83 | 27100 | 7,14 |
| 5,90 | 139 | 91 | 10 | 11747 | 5,83 | 27282 | 7,14 |
| 6,00 | 139 | 91 | 10 | 11750 | 3,90 | 27168 | 5,22 |
| 6,10 | 148 | 97 | 10 | 11753 | 5,83 | 27105 | 9,36 |

Ref. **1030****BROCA MANGO CILÍNDRICO HSS. SERIE LARGA**

HSS Straight Shank Drill Bit. Long Series

Foret queue cylindrique HSS. Série longue

| D mm | L mm | I mm |  | N° Art. HSS | € | N° Art. TIN | € |
|---------|---------|---------|---|----------------|-------|----------------|-------|
| 6,20 | 148 | 97 | 10 | 11756 | 5,83 | 27281 | 9,36 |
| 6,25 | 148 | 97 | 10 | 11759 | 6,04 | 27485 | 9,58 |
| 6,30 | 148 | 97 | 10 | 11762 | 5,89 | 27486 | 9,39 |
| 6,40 | 148 | 97 | 10 | 11765 | 5,89 | 27108 | 9,39 |
| 6,50 | 148 | 97 | 10 | 11768 | 4,99 | 20135 | 8,51 |
| 6,60 | 148 | 97 | 10 | 11771 | 5,89 | 27169 | 9,39 |
| 6,70 | 148 | 97 | 10 | 11774 | 5,89 | 27283 | 9,39 |
| 6,75 | 156 | 102 | 10 | 11777 | 6,11 | 27487 | 9,62 |
| 6,80 | 156 | 102 | 10 | 11780 | 6,11 | 27160 | 9,62 |
| 6,90 | 156 | 102 | 10 | 11783 | 6,25 | 27106 | 9,79 |
| 7,00 | 156 | 102 | 10 | 11786 | 5,82 | 20138 | 9,35 |
| 7,10 | 156 | 102 | 10 | 11789 | 6,25 | 27158 | 9,79 |
| 7,20 | 156 | 102 | 10 | 11792 | 6,25 | 27488 | 9,79 |
| 7,25 | 156 | 102 | 10 | 11795 | 6,50 | 27159 | 10,02 |
| 7,30 | 156 | 102 | 10 | 11798 | 6,38 | 76659 | 9,90 |
| 7,40 | 156 | 102 | 10 | 11801 | 6,38 | 27489 | 9,90 |
| 7,50 | 156 | 102 | 10 | 11804 | 6,19 | 27490 | 9,71 |
| 7,60 | 165 | 109 | 10 | 11807 | 6,38 | 20141 | 9,90 |
| 7,70 | 165 | 109 | 10 | 11810 | 6,38 | 27157 | 9,90 |
| 7,75 | 165 | 109 | 10 | 11813 | 6,63 | 27491 | 10,15 |
| 7,80 | 165 | 109 | 10 | 11816 | 7,14 | 27154 | 10,65 |
| 7,90 | 165 | 109 | 10 | 11819 | 7,14 | 27232 | 10,65 |
| 8,00 | 165 | 109 | 10 | 11822 | 6,90 | 27492 | 10,42 |
| 8,10 | 165 | 109 | 5 | 11825 | 7,14 | 27493 | 11,29 |
| 8,20 | 165 | 109 | 5 | 11828 | 7,14 | 27494 | 11,29 |
| 8,25 | 165 | 109 | 5 | 11831 | 7,41 | 28850 | 11,54 |
| 8,30 | 165 | 109 | 5 | 11834 | 10,97 | 27495 | 15,12 |
| 8,40 | 165 | 109 | 5 | 11837 | 10,97 | 20144 | 15,12 |
| 8,50 | 165 | 109 | 5 | 11840 | 7,67 | 27496 | 11,82 |
| 8,60 | 175 | 115 | 5 | 11843 | 10,97 | 27284 | 15,12 |
| 8,70 | 175 | 115 | 5 | 11846 | 10,97 | 27516 | 15,12 |
| 8,75 | 175 | 115 | 5 | 11849 | 11,42 | 27285 | 15,54 |
| 8,80 | 175 | 115 | 5 | 11852 | 11,21 | 27497 | 15,36 |
| 8,90 | 175 | 115 | 5 | 11855 | 11,21 | 27517 | 15,36 |
| 9,00 | 175 | 115 | 5 | 11858 | 8,34 | 27113 | 12,50 |
| 9,10 | 175 | 115 | 5 | 11861 | 11,21 | 27110 | 15,36 |
| 9,20 | 175 | 115 | 5 | 11864 | 11,21 | 27231 | 15,36 |
| 9,25 | 175 | 115 | 5 | 11867 | 11,66 | 27498 | 15,79 |
| 9,30 | 175 | 115 | 5 | 11870 | 12,08 | 27112 | 16,22 |
| 9,40 | 175 | 115 | 5 | 11873 | 12,08 | 27499 | 16,22 |
| 9,50 | 175 | 115 | 5 | 11876 | 8,45 | 27500 | 12,58 |
| 9,60 | 184 | 121 | 5 | 11879 | 12,08 | 27501 | 16,22 |
| 9,70 | 184 | 121 | 5 | 11882 | 12,08 | 27502 | 16,22 |
| 9,75 | 184 | 121 | 5 | 11885 | 12,53 | 27503 | 16,65 |
| 9,80 | 184 | 121 | 5 | 11888 | 12,08 | 27504 | 16,22 |
| 9,90 | 184 | 121 | 5 | 11891 | 12,08 | 26994 | 16,22 |
| 10,00 | 184 | 121 | 5 | 11894 | 9,13 | 20147 | 13,27 |

| D mm | L mm | I mm |  | N° Art. HSS | € | N° Art. TIN | € |
|---------|---------|---------|---|----------------|--------|----------------|-------|
| 10,20 | 184 | 121 | 1 | 11900 | 12,33 | 20150 | 20,98 |
| 10,25 | 184 | 121 | 1 | 11903 | 11,42 | 27230 | 20,06 |
| 10,50 | 184 | 121 | 1 | 11912 | 12,33 | 27229 | 20,98 |
| 10,75 | 195 | 128 | 1 | 11921 | 12,53 | 27505 | 21,18 |
| 10,80 | 195 | 128 | 1 | 11924 | 15,68 | 26996 | 24,34 |
| 11,00 | 195 | 128 | 1 | 11930 | 13,71 | 27228 | 22,34 |
| 11,10 | 195 | 128 | 1 | 30588 | 18,33 | 30589 | 26,96 |
| 11,25 | 195 | 128 | 1 | 11939 | 16,29 | 27506 | 24,94 |
| 11,50 | 195 | 128 | 1 | 11948 | 13,97 | 27227 | 22,59 |
| 11,75 | 195 | 128 | 1 | 11957 | 18,33 | 27225 | 26,97 |
| 11,80 | 195 | 128 | 1 | 11960 | 18,33 | 27507 | 26,97 |
| 11,90 | 205 | 134 | 1 | 11963 | 18,33 | 27508 | 26,97 |
| 12,00 | 205 | 134 | 1 | 11966 | 15,61 | 27509 | 24,28 |
| 12,20 | 205 | 134 | 1 | 11972 | 17,66 | 26993 | 28,50 |
| 12,25 | 205 | 134 | 1 | 11975 | 17,71 | 27510 | 28,54 |
| 12,30 | 205 | 134 | 1 | 11978 | 20,87 | 27511 | 31,74 |
| 12,50 | 205 | 134 | 1 | 11984 | 16,44 | 27512 | 27,31 |
| 12,75 | 205 | 134 | 1 | 11993 | 21,69 | 27513 | 32,55 |
| 13,00 | 205 | 134 | 1 | 12002 | 18,66 | 27226 | 29,51 |
| 13,25 | 214 | 140 | 1 | 12005 | 21,69 | | |
| 13,50 | 214 | 140 | 1 | 12008 | 20,83 | 12933 | 31,67 |
| 13,75 | 214 | 140 | 1 | 12011 | 21,75 | 17836 | 32,63 |
| 14,00 | 214 | 140 | 1 | 12014 | 22,48 | 12935 | 33,34 |
| 14,25 | 220 | 144 | 1 | 12017 | 40,49 | 17837 | 51,36 |
| 14,50 | 220 | 144 | 1 | 12020 | 26,33 | 12936 | 37,16 |
| 14,75 | 220 | 144 | 1 | 12023 | 40,49 | | |
| 15,00 | 220 | 144 | 1 | 12026 | 25,46 | 12939 | 36,33 |
| 15,25 | 227 | 149 | 1 | 12029 | 45,73 | | |
| 15,50 | 227 | 149 | 1 | 12032 | 37,80 | | |
| 15,75 | 227 | 149 | 1 | 12035 | 45,73 | | |
| 16,00 | 227 | 149 | 1 | 12038 | 29,64 | 21320 | 38,29 |
| 16,25 | 235 | 154 | 1 | 12041 | 50,47 | | |
| 16,50 | 235 | 154 | 1 | 12044 | 35,06 | | |
| 16,75 | 235 | 154 | 1 | 12047 | 50,47 | 21324 | 59,12 |
| 17,00 | 235 | 154 | 1 | 12050 | 35,22 | 21326 | 43,86 |
| 17,25 | 241 | 158 | 1 | 12053 | 58,02 | | |
| 17,50 | 241 | 158 | 1 | 12056 | 52,07 | | |
| 17,75 | 241 | 158 | 1 | 12059 | 67,66 | | |
| 18,00 | 241 | 158 | 1 | 12062 | 36,73 | | |
| 18,25 | 247 | 162 | 1 | 12065 | 79,70 | | |
| 18,50 | 247 | 162 | 1 | 12068 | 56,88 | | |
| 18,75 | 247 | 162 | 1 | 12071 | 79,02 | | |
| 19,00 | 247 | 162 | 1 | 12074 | 46,03 | | |
| 19,25 | 254 | 166 | 1 | 12077 | 88,55 | | |
| 19,50 | 254 | 166 | 1 | 12080 | 88,55 | | |
| 19,75 | 254 | 166 | 1 | 12083 | 100,00 | | |
| 20,00 | 254 | 166 | 1 | 12086 | 51,66 | | |

New!

New!

