

PRICE LIST

DPM01102022
(w.e.f. 01st October 2022)



HSS Toolbits

HSS Drills

HSS Endmills

HSS Reamers

HSS Core Drills

HSS & TCT Annular Cutters

HSS Taps

Carbide Tipped Tools

Tungsten Carbide Rotary Burrs

Solid Carbide Drills

Solid Carbide End Mills



Terms & Conditions

1. All Govt. taxes and levies are extra.
2. Delivery F.O.R Destination
3. This price list is effective from 01.10.2022 and super ceeds our previous Price list, Prices are subject to revision without any notice.
4. For unlisted intermediate sizes, please contact the respective sales team.
5. We also manufacture special products as per your requirements.
6. All MTO items required in minimum order value of Rs.20,000/- net or MOQ as per size whichever is higher.
7. If coating (TiN, TiCN, TiAlN) required while ordering will be charged extra if not included in price list. Minimum Order Value should be Rs.20,000 in each size or minimum order qty. as mentioned.

| | | |
|---------------------------|---|--|
| Jobber, Stub & | : | All sizes upto Dia 13.00mm to be ordered |
| Long Series Drills | : | In multiple of 10 Nos. |
| Centre Drills | : | Upto 1/2" (12.50 mm) to be ordered in multiple of 100 Nos. |
| ToolBits | : | Upto 1/2" (12.50 mm) to be ordered in multiple of 10Nos. |
| Parallel Shank Endmills : | | Upto 1/2" (12.50 mm) to be ordered in multiple of 10Nos |

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HSS TOOLBIT BLANKS



| NOMINAL SIZE | | | GRADES | | | | | | PKT. QTY. |
|--------------|--------------|----------------|-------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------|
| MM | INCH | EQUIVALENT MM | ZEDD SQ. Price Each Rs. | S100 M35 SQ./RD Price Each Rs. | S200 M42 SQ./RD Price Each Rs. | S400 T42 SQ./RD Price Each Rs. | S400E M35 SQ./RD Price Each Rs. | S500 T42 SQ./RD Price Each Rs. | |
| - | 3/32 x 2.1/2 | 2.38 x 63.50 | 140 | 310 | 436 | 459 | 365 | 488 | 10 |
| - | 3/32 x 3 | 2.38 x 76.20 | 164 | 501 | 701 | 735 | 588 | 781 | 10 |
| 3 x 75 | 1/8 x 3 | 3.18 x 76.20 | 164 | 343 | 483 | 510 | 401 | 531 | 10 |
| 3 x 100 | 1/8 x 4 | 3.18 x 101.60 | 215 | 618 | 889 | 933 | 734 | 970 | 10 |
| 4 x 75 | 5/32 x 3 | 3.97 x 76.20 | 164 | 347 | 495 | 520 | 410 | 532 | 10 |
| 4 x 100 | 5/32 x 4 | 3.97 x 101.60 | 220 | 538 | 769 | 808 | 640 | 829 | 10 |
| 5 x 75 | 3/16 x 3 | 4.76 x 76.20 | 140 | 274 | 360 | 377 | 321 | 390 | 10 |
| 5 x 100 | 3/16 x 4 | 4.76 x 101.60 | 185 | 404 | 525 | 552 | 477 | 578 | 10 |
| 5 x 150 | 3/16 x 6 | 4.76 x 152.40 | 286 | 730 | 1,120 | 1,183 | 856 | 1,184 | 10 |
| 6 x 75 | 1/4 x 3 | 6.35 x 76.20 | 160 | 347 | 483 | 510 | 410 | 532 | 10 |
| 6 x 100 | 1/4 x 4 | 6.35 x 101.60 | 188 | 472 | 641 | 676 | 552 | 703 | 10 |
| 6 x 150 | 1/4 x 6 | 6.35 x 152.40 | 271 | 772 | 1,048 | 1,105 | 909 | 1,147 | 10 |
| 6 x 200 | 1/4 x 8 | 6.35 x 203.20 | 386 | 1,281 | 1,774 | 1,867 | 1,502 | 1,964 | 10 |
| 8 x 75 | 5/16 x 3 | 7.94 x 76.20 | 178 | 456 | 619 | 656 | 538 | 698 | 10 |
| 8 x 100 | 5/16 x 4 | 7.94 x 101.60 | 231 | 627 | 851 | 893 | 738 | 953 | 10 |
| 8 x 150 | 5/16 x 6 | 7.94 x 152.40 | 381 | 1,001 | 1,368 | 1,438 | 1,184 | 1,525 | 10 |
| 8 x 200 | 5/16 x 8 | 7.94 x 203.20 | 484 | 1,426 | 1,933 | 2,038 | 1,682 | 2,174 | 10 |
| - | 3/8 x 3 | 9.53 x 76.20 | 223 | 531 | 735 | 780 | 620 | 827 | 10 |
| - | 3/8 x 4 | 9.53 x 101.60 | 271 | 709 | 972 | 1,025 | 837 | 1,112 | 10 |
| - | 3/8 x 6 | 9.53 x 152.40 | 421 | 1,119 | 1,566 | 1,645 | 1,322 | 1,757 | 10 |
| - | 3/8 x 8 | 9.53 x 203.20 | 571 | 1,593 | 2,220 | 2,340 | 1,869 | 2,492 | 10 |
| - | 3/8 x 10 | 9.53 x 254.00 | 736 | 2,111 | 2,940 | 3,095 | 2,481 | 3,301 | 10 |
| 10 x 75 | - | - | 248 | 578 | 803 | 843 | 679 | 903 | 10 |
| 10 x 100 | - | - | 293 | 772 | 1,076 | 1,132 | 907 | 1,208 | 10 |
| 10 x 150 | - | - | 454 | 1,208 | 1,686 | 1,776 | 1,426 | 1,888 | 10 |
| 10 x 200 | - | - | 636 | 1,704 | 2,370 | 2,494 | 2,006 | 2,659 | 10 |
| 10 x 250 | - | - | 802 | 2,249 | 3,132 | 3,294 | 2,635 | 3,508 | 10 |
| 12 x 75 | 1/2 x 3 | 12.70 x 76.20 | 335 | 838 | 1,202 | 1,263 | 989 | 1,316 | 10 |
| 12 x 100 | 1/2 x 4 | 12.70 x 101.60 | 421 | 1,119 | 1,567 | 1,649 | 1,322 | 1,764 | 10 |
| 12 x 150 | 1/2 x 6 | 12.70 x 152.40 | 642 | 1,723 | 2,456 | 2,591 | 2,028 | 2,708 | 10 |
| 12 x 200 | 1/2 x 8 | 12.70 x 203.20 | 843 | 2,407 | 3,428 | 3,608 | 2,832 | 3,776 | 10 |
| 12 x 250 | 1/2 x 10 | 12.70 x 254.00 | 1,285 | 3,370 | 4,713 | 4,967 | 3,965 | 5,270 | 10 |
| 14 x 100 | 9/16 x 4 | 14.29 x 101.60 | 519 | 1,438 | 1,933 | 2,038 | 1,696 | 2,174 | 1 |
| 14 x 150 | 9/16 x 6 | 14.29 x 152.40 | 796 | 2,174 | 2,919 | 3,071 | 2,549 | 3,272 | 1 |
| 14 x 200 | 9/16 x 8 | 14.29 x 203.20 | 1,093 | 3,017 | 4,060 | 4,274 | 3,547 | 4,548 | 1 |
| 16 x 100 | 5/8 x 4 | 15.88 x 101.60 | 666 | 1,844 | 2,635 | 2,776 | 2,175 | 2,887 | 1 |
| 16 x 150 | 5/8 x 6 | 15.88 x 152.40 | 982 | 2,772 | 3,861 | 4,060 | 3,257 | 4,325 | 1 |
| 16 x 200 | 5/8 x 8 | 15.88 x 203.20 | 1,327 | 3,788 | 5,412 | 5,699 | 4,460 | 5,920 | 1 |
| - | 3/4 x 4 | 19.05 x 101.60 | 921 | 2,565 | 3,619 | 3,809 | 3,015 | 4,016 | 1 |
| - | 3/4 x 6 | 19.05 x 152.40 | 1,346 | 3,839 | 5,310 | 5,593 | 4,523 | 6,018 | 1 |
| - | 3/4 x 8 | 19.05 x 203.20 | 1,841 | 5,154 | 7,277 | 7,660 | 6,060 | 8,067 | 1 |
| 20 x 100 | - | - | 1,006 | 2,794 | 3,948 | 4,157 | 3,285 | 4,376 | 1 |
| 20 x 150 | - | - | 1,465 | 4,183 | 5,916 | 6,231 | 4,928 | 6,564 | 1 |
| 20 x 200 | - | - | 2,003 | 5,575 | 7,888 | 8,306 | 6,571 | 8,746 | 1 |
| 25 x 150 | 1 x 6 | 25.40 x 152.40 | 2,266 | 6,377 | 8,908 | 9,381 | 7,502 | 9,969 | 1 |
| 25 x 200 | 1 x 8 | 25.40 x 203.20 | 3,081 | 8,502 | 11,876 | 12,503 | 10,003 | 13,292 | 1 |

(Square Toolbit blanks are with bevelled ends)

- ZEDD = (HSS With 0% Cobalt) (62-65 HRc)
- S100 = M35 (HSS With 5% Cobalt) (63-65 HRc)
- S200 = M42 (HSS With 8% Cobalt) (65-68 HRc)
- S400 = T42 (HSS With 10% Cobalt) (64-67 HRc)
- S400E = M35 with Cryogenic (Ultra Low) Heat Treatment (64-67 HRc)
- S500 = T42 with Cryogenic (Ultra Low) Heat Treatment (65-69 HRc)

HSS FLAT (RECTANGULAR) TOOLBIT BLANKS

| NOMINAL SIZE | | | GRADES | | PKT. QTY. |
|---------------|----------------|------------------------|----------------|----------------|-----------|
| MM | INCH | EQUIVALENT MM | MARK III | T42 | |
| | | | Price Each Rs. | Price Each Rs. | |
| 3 x 20 x 150 | 1/8 x 3/4 x 6 | 3.18 x 19.05 x 152.40 | 1,056 | 1,649 | 10 |
| 3 x 25 x 150 | 1/8 x 1 x 6 | 3.18 x 25.40 x 152.40 | 1,508 | 2,356 | 10 |
| 5 x 25 x 150 | 3/16 x 1 x 6 | 4.76 x 25.40 x 152.40 | 1,658 | 2,892 | 10 |
| 6 x 12 x 100 | 1/4 x 1/2 x 4 | 6.35 x 12.70 x 101.60 | 637 | 995 | 10 |
| 6 x 12 x 150 | 1/4 x 1/2 x 6 | 6.35 x 12.70 x 152.40 | 974 | 1,532 | 10 |
| 6 x 16 x 150 | 1/4 x 5/8 x 6 | 6.35 x 15.88 x 152.40 | 1,161 | 1,883 | 10 |
| 6 x 20 x 150 | 1/4 x 3/4 x 6 | 6.35 x 19.05 x 152.40 | 1,378 | 2,157 | 10 |
| 6 x 25 x 150 | 1/4 x 1 x 6 | 6.35 x 25.40 x 152.40 | 1,682 | 2,630 | 10 |
| 10 x 12 x 100 | 3/8 x 1/2 x 4 | 9.53 x 12.70 x 101.60 | 958 | 1,501 | 10 |
| 10 x 16 x 100 | 3/8 x 5/8 x 4 | 9.53 x 15.88 x 101.60 | 1,063 | 1,665 | 10 |
| 10 x 16 x 150 | 3/8 x 5/8 x 6 | 9.53 x 15.88 x 152.40 | 1,660 | 2,591 | 10 |
| 10 x 20 x 150 | 3/8 x 3/4 x 6* | 9.53 x 19.05 x 152.40 | 1,913 | 2,984 | 10 |
| 10 x 25 x 150 | 3/8 x 1 x 6 | 9.53 x 25.40 x 152.40 | 3,279 | 5,123 | 10 |
| 12 x 16 x 150 | 1/2 x 5/8 x 6 | 12.70 x 15.88 x 152.40 | 2,046 | 3,633 | 1 |
| 12 x 20 x 150 | 1/2 x 3/4 x 6 | 12.70 x 19.05 x 152.40 | 2,265 | 4,016 | 1 |
| 12 x 25 x 150 | 1/2 x 1 x 6 | 12.70 x 25.40 x 152.40 | 2,969 | 4,650 | 1 |
| 16 x 20 x 150 | 5/8 x 3/4 x 6 | 15.88 x 19.05 x 152.40 | 3,083 | 5,267 | 1 |
| 20 x 25 x 150 | 3/4 x 1 x 6 | 19.05 x 25.40 x 152.40 | 4,341 | 8,332 | 1 |

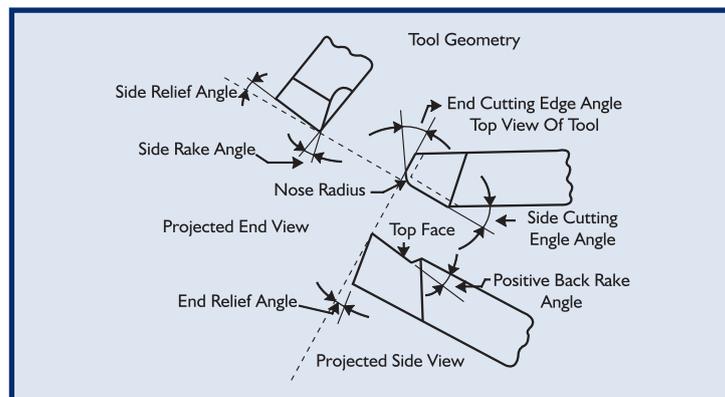
- Mark III - M35 (HSS with 5% Cobalt) (63-66 HRC), T42 (HSS with 10% Cobalt)

HSS PARTING TOOLBITS

| NOMINAL SIZE | | GRADES | | PKT. QTY. |
|----------------|-----------------------|----------------|----------------|-----------|
| INCH | EQUIVALENT MM | MARK II | T42 | |
| | | Price Each Rs. | Price Each Rs. | |
| 3/32 x 1/2 x 4 | 2.38 x 12.70 x 101.60 | 834 | 1,463 | 10 |
| 3/32 x 5/8 x 5 | 2.38 x 15.88 x 127.00 | 1,045 | 1,923 | 10 |
| 1/8 x 3/4 x 6* | 3.18 x 19.05 x 152.40 | 1,332 | 2,361 | 10 |
| 1/8 x 7/8 x 6 | 3.18 x 22.23 x 152.40 | 1,559 | 2,883 | 10 |
| 3/16 x 1 x 6 | 4.76 x 25.40 x 152.40 | 1,938 | 3,303 | 10 |

- Mark II - M2 (HSS with 0% Cobalt) (62-65 HRC), T42 (HSS with 10% Cobalt)

ToolBit Terms - General Features



HSS TOOL BIT BLANK



New Launch

(1/4"x4") 6.35x101.60 mm

(3/8"x4") 9.53x101.60mm

MIRANDA ZEDD PLUS

MIRANDA ZEDD PLUS





HSS TOOL BIT BLANK

| PRODUCT CODE | DESC | PRIZE PER PICE | PACKING QTY. |
|--------------------|--------------------------------------|----------------|--------------|
| MIRTSAI05CI0505100 | TOOLBIT BLANK SQ 3/16"X4" H SS ZEDD+ | 195 | 10 |
| MIRTSAI05CI0505150 | TOOLBIT BLANK SQ 3/16"X6" H SS ZEDD+ | 301 | 10 |
| MIRTSAI05CI0606075 | TOOLBIT BLANK SQ 1/4"X3" ZEDD + | 169 | 10 |
| MIRTSAI05CI0606100 | TOOLBIT BLANK SQ 1/4"X4" ZEDD + | 197 | 10 |
| MIRTSAI05CI0606150 | TOOLBIT BLANK SQ 1/4"X6" ZEDD + | 283 | 10 |
| MIRTSAI05CI0808075 | TOOLBIT BLANK SQ 5/16"X3" H SS ZEDD+ | 187 | 10 |
| MIRTSAI05CI0808100 | TOOLBIT BLANK SQ 5/16"X4" H SS ZEDD+ | 243 | 10 |
| MIRTSAI05CI0808150 | TOOLBIT BLANK SQ 5/16"X6" H SS ZEDD+ | 400 | 10 |
| MIRTSAI05CI1010075 | TOOLBIT BLANK SQ 3/8"X3" ZEDD + | 233 | 10 |
| MIRTSAI05CI1010100 | TOOLBIT BLANK SQ 3/8"X4" ZEDD + | 283 | 10 |
| MIRTSAI05CI1010150 | TOOLBIT BLANK SQ 3/8"X6" ZEDD + | 442 | 10 |
| MIRTSAI05CI1010200 | TOOLBIT BLANK SQ 3/8"X8" ZEDD + | 599 | 10 |
| MIRTSAI05CI1212075 | TOOLBIT BLANK SQ 1/2"X3" ZEDD + | 352 | 10 |
| MIRTSAI05CI1212100 | TOOLBIT BLANK SQ 1/2"X4" ZEDD + | 442 | 10 |
| MIRTSAI05CI1212150 | TOOLBIT BLANK SQ 1/2"X6" ZEDD + | 675 | 10 |
| MIRTSAI05CI1212200 | TOOLBIT BLANK SQ 1/2"X8" ZEDD + | 883 | 10 |
| MIRTSAI05CI1616100 | TOOLBIT BLANK SQ 5/8"X4" ZEDD + | 701 | 10 |
| MIRTSAI05CI1616150 | TOOLBIT BLANK SQ 5/8"X6" ZEDD + | 1032 | 10 |
| MIRTSAI05CI2020150 | TOOLBIT BLANK SQ 3/4"X6" ZEDD + | 1413 | 10 |
| MIRTSAI05CI2525150 | TOOLBIT BLANK SQ 1"X6" ZEDD + | 2380 | 10 |
| MIRTSAI05CI2525200 | TOOLBIT BLANK SQ 1"X8" ZEDD + | 3235 | 10 |

FEATURE

- Superior Performance
- Improved Wear Resistance
- Extended Pointing Frequency
- Special Surface Treatment
- Excellent Performance on Critical Application



MIRANDA Gold Drills



MIRANDA Super Drills

MIRANDA Gold Drills

SIZE RANGE : GOLD JOBBER DRILL

- Metric size : 1.0 mm to 20.0 mm
- Inch size : 3/64" to 25/32"

APPLICATION :

- Suitable for non ferrous metals.
- Suitable for aluminium alloy & Cast steel material.
- Suitable for material up to 25HRc.
- Suitable for general application

MIRANDA Super Drills

SIZE RANGE : SUPER JOBBER DRILL

- Metric size : 1.00 mm to 16.0 mm
- Inch size : 3/64" to 5/8"

APPLICATION :

- Drilling alloy steel up to 28-35 HRc.
- Suitable for drilling all types of stainless steel materials.
- Suitable for forged steel components.
- All Titanium alloys, Hastelloy, Inconel and Heat Resistant steels.



HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS : 5101 - 1991)



| SIZES | | | PRICE Rs. / 10 Nos. | | | SIZES | | | PRICE Rs. / 10 Nos. | | |
|-------|------|-----|----------------------|-----------------------|-------------------------|-------|-------|-----|----------------------|-----------------------|-------------------------|
| MM | INCH | DG | STD JOBBER DRILLS M2 | GOLD JOBBER DRILLS M2 | SUPER JOBBER DRILLS M35 | MM | INCH | DG | STD JOBBER DRILLS M2 | GOLD JOBBER DRILLS M2 | SUPER JOBBER DRILLS M35 |
| 1.00 | - | - | 539 | 598 | 730 | 2.90 | - | - | 580 | 641 | 783 |
| 1.02 | - | 60 | 539 | 598 | 730 | 2.95 | - | 32 | 580 | 641 | 783 |
| 1.04 | - | 59 | 539 | 598 | 730 | 3.00 | - | - | 520 | 575 | 702 |
| 1.07 | - | 58 | 539 | 598 | 730 | 3.05 | - | 31* | | | - |
| 1.09 | - | 57 | 539 | 598 | 730 | 3.10 | - | - | 680 | 755 | 920 |
| 1.10 | - | - | 539 | 598 | 730 | 3.17 | 1/8 | - | 680 | 755 | 920 |
| 1.18 | - | 56 | 539 | 598 | 730 | 3.20 | - | - | 698 | 774 | 942 |
| 1.19 | 3/64 | - | 539 | 598 | 730 | 3.26 | - | 30 | 698 | 774 | 942 |
| 1.20 | - | - | 539 | 598 | 730 | 3.30 | - | - | 698 | 774 | 942 |
| 1.30 | - | - | 539 | 598 | 730 | 3.40 | - | - | 698 | 774 | 942 |
| 1.32 | - | 55 | 539 | 598 | 730 | 3.45 | - | 29 | 698 | 774 | 942 |
| 1.40 | - | 54 | 539 | 598 | 730 | 3.50 | - | - | 698 | 774 | 942 |
| 1.50 | - | - | 539 | 598 | 730 | 3.57 | 9/64 | 28 | 698 | 774 | 942 |
| 1.51 | - | 53 | 539 | 598 | 730 | 3.60 | - | - | 1,039 | 1,152 | 1,403 |
| 1.59 | 1/16 | - | 539 | 598 | 730 | 3.66 | - | 27 | 1,039 | 1,152 | 1,403 |
| 1.60 | - | - | 539 | 598 | 730 | 3.70 | - | - | 1,039 | 1,152 | 1,403 |
| 1.61 | - | 52 | 564 | 626 | 764 | 3.73 | - | 26 | 1,039 | 1,152 | 1,403 |
| 1.70 | - | 51 | 564 | 626 | 764 | 3.80 | - | 25 | 1,039 | 1,152 | 1,403 |
| 1.78 | - | 50 | 564 | 626 | 764 | 3.86 | - | 24 | 1,039 | 1,152 | 1,403 |
| 1.80 | - | - | 564 | 626 | 764 | 3.90 | - | - | 1,039 | 1,152 | 1,403 |
| 1.85 | - | 49 | 564 | 626 | 764 | 3.91 | - | 23 | 1,039 | 1,152 | 1,403 |
| 1.90 | - | - | 564 | 626 | 764 | 3.97 | 5/32 | - | 1,039 | 1,152 | 1,403 |
| 1.93 | - | 48 | 564 | 626 | 764 | 3.99 | - | 22 | 1,039 | 1,152 | 1,403 |
| 1.98 | 5/64 | - | 564 | 626 | 764 | 4.00 | - | - | 1,039 | 1,152 | 1,403 |
| 1.99 | - | 47 | 564 | 626 | 764 | 4.04 | - | 21 | 1,253 | 1,389 | 1,692 |
| 2.00 | - | - | 564 | 626 | 764 | 4.09 | - | 20 | 1,253 | 1,389 | 1,692 |
| 2.06 | - | 46 | 564 | 626 | 764 | 4.10 | - | - | 1,253 | 1,389 | 1,692 |
| 2.08 | - | 45 | 564 | 626 | 764 | 4.20 | - | - | 1,253 | 1,389 | 1,692 |
| 2.10 | - | - | 564 | 626 | 764 | 4.22 | - | 19 | 1,253 | 1,389 | 1,692 |
| 2.18 | - | 44 | 564 | 626 | 764 | 4.30 | - | 18 | 1,253 | 1,389 | 1,692 |
| 2.20 | - | - | 564 | 626 | 764 | 4.37 | 11/64 | - | 1,253 | 1,389 | 1,692 |
| 2.26 | - | 43 | 564 | 626 | 764 | 4.39 | - | 17 | 1,253 | 1,389 | 1,692 |
| 2.30 | - | - | 564 | 626 | 764 | 4.40 | - | - | 1,253 | 1,389 | 1,692 |
| 2.37 | - | 42 | 564 | 626 | 764 | 4.50 | - | 16 | 1,645 | 1,828 | 2,221 |
| 2.38 | 3/32 | - | 564 | 626 | 764 | 4.57 | - | 15 | 1,645 | 1,828 | 2,221 |
| 2.40 | - | - | 564 | 626 | 764 | 4.60 | - | - | 1,645 | 1,828 | 2,221 |
| 2.44 | - | 41 | 564 | 626 | 764 | 4.62 | - | 14 | 1,645 | 1,828 | 2,221 |
| 2.49 | - | 40 | | | - | 4.70 | - | 13 | 1,645 | 1,828 | 2,221 |
| 2.50 | - | - | 564 | 626 | 764 | 4.76 | 3/16 | - | 1,645 | 1,828 | 2,221 |
| 2.53 | - | 39 | 564 | 626 | 764 | 4.80 | - | 12 | 1,645 | 1,828 | 2,221 |
| 2.58 | - | 38 | | | - | 4.85 | - | 11 | 1,808 | 2,006 | 2,441 |
| 2.60 | - | - | 564 | 626 | 764 | 4.90 | - | - | 1,808 | 2,006 | 2,441 |
| 2.64 | - | 37* | 564 | 626 | 764 | 4.92 | - | 10 | 1,808 | 2,006 | 2,441 |
| 2.70 | - | - | 564 | 626 | 764 | 4.98 | - | 9 | 1,808 | 2,006 | 2,441 |
| 2.71 | - | 36 | 564 | 626 | 764 | 5.00 | - | - | 1,808 | 2,006 | 2,441 |
| 2.78 | 7/64 | - | 564 | 626 | 764 | 5.06 | - | 8 | 1,808 | 2,006 | 2,441 |
| 2.79 | - | 35 | 580 | 626 | 786 | 5.10 | - | - | 1,808 | 2,006 | 2,441 |
| 2.80 | - | - | 580 | 626 | 786 | 5.11 | - | 7 | 1,808 | 2,006 | 2,441 |
| 2.82 | - | 34 | 580 | 626 | 786 | 5.16 | 13/64 | - | 1,808 | 2,006 | 2,441 |
| 2.87 | - | 33 | 580 | 626 | 786 | 5.18 | - | 6 | 1,808 | 2,006 | 2,441 |

HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS : 5101 - 1991)

| SIZES | | | PRICE Rs. / 10 Nos. | | | SIZES | | | PRICE Rs. / 10 Nos. | | |
|-------|--------|----|---------------------|--------------------|---------------------|--------|--------|----|---------------------|--------------------|---------------------|
| MM | INCH | DG | STD JOBBER DRILLS | GOLD JOBBER DRILLS | SUPER JOBBER DRILLS | MM | INCH | DG | STD JOBBER DRILLS | GOLD JOBBER DRILLS | SUPER JOBBER DRILLS |
| 5.20* | - | - | 1,808 | 2,006 | 2,441 | 9.13 | 23/64 | - | 5,456 | 6,060 | 7,502 |
| 5.22 | - | 5 | 1,952 | 2,167 | 2,650 | 9.20 | - | - | 5,456 | 6,060 | 7,502 |
| 5.30* | - | - | 1,952 | 2,167 | 2,650 | 9.30 | - | - | 5,456 | 6,060 | 7,502 |
| 5.31 | - | 4 | 1,952 | 2,167 | 2,650 | 9.34 | - | U | 5,456 | 6,060 | 7,502 |
| 5.40* | - | - | 1,952 | 2,167 | 2,650 | 9.40* | - | - | 5,456 | 6,060 | 7,502 |
| 5.41 | - | 3 | 1,952 | 2,167 | 2,650 | 9.50* | - | - | 5,456 | 6,060 | 7,502 |
| 5.50* | - | - | 1,952 | 2,167 | 2,650 | 9.52 | 3/8* | - | 6,210 | 6,895 | 8,539 |
| 5.56 | 7/32* | - | 1,952 | 2,167 | 2,650 | 9.60 | - | - | 6,210 | 6,895 | 8,539 |
| 5.60 | - | - | 1,952 | 2,167 | 2,650 | 9.70 | - | - | 6,210 | 6,895 | 8,539 |
| 5.61 | - | 2 | 2,174 | 2,415 | 2,940 | 9.80 | - | - | 6,210 | 6,895 | 8,539 |
| 5.70 | - | - | 2,174 | 2,415 | 2,940 | 9.90 | - | - | 6,921 | 7,682 | 9,447 |
| 5.79 | - | 1 | 2,174 | 2,415 | 2,940 | 9.92 | 25/64 | - | - | - | - |
| 5.80* | - | - | 2,174 | 2,415 | 2,940 | 10.00* | - | - | 6,921 | 7,682 | 9,447 |
| 5.90* | - | - | 2,174 | 2,415 | 2,940 | 10.10* | - | - | 6,921 | 7,682 | 9,447 |
| 5.95 | 15/64* | - | 2,174 | 2,415 | 2,940 | 10.20* | - | - | 6,921 | 7,682 | 9,447 |
| 6.00* | - | - | 2,174 | 2,415 | 2,940 | 10.30* | - | - | 7,532 | 8,359 | 10,281 |
| 6.04 | - | B | 2,382 | 2,647 | 3,230 | 10.32 | 13/32* | - | 7,532 | 8,359 | 10,281 |
| 6.10* | - | - | 2,382 | 2,647 | 3,230 | 10.40 | - | - | 7,532 | 8,359 | 10,281 |
| 6.15 | - | C | 2,382 | 2,647 | 3,230 | 10.50* | - | - | 7,532 | 8,359 | 10,281 |
| 6.20* | - | - | 2,382 | 2,647 | 3,230 | 10.60 | - | - | 7,532 | 8,359 | 10,281 |
| 6.30* | - | - | 2,382 | 2,647 | 3,230 | 10.70 | - | - | 7,959 | 8,837 | 10,864 |
| 6.35 | 1/4* | E | 2,382 | 2,647 | 3,230 | 10.72 | 27/64 | - | 7,959 | 8,837 | 10,864 |
| 6.40 | - | - | 2,382 | 2,647 | 3,230 | 10.80* | - | - | 7,959 | 8,837 | 10,864 |
| 6.50* | - | - | 3,042 | 3,377 | 4,120 | 10.90 | - | - | 7,959 | 8,837 | 10,864 |
| 6.60* | - | - | 3,042 | 3,377 | 4,120 | 11.00* | - | - | 7,959 | 8,837 | 10,864 |
| 6.63 | - | G | 3,042 | 3,377 | 4,120 | 11.10* | - | - | 8,884 | 9,859 | 12,127 |
| 6.70* | - | - | 3,042 | 3,377 | 4,120 | 11.11 | 7/16* | - | 8,884 | 9,859 | 12,127 |
| 6.75 | 17/64* | H | 3,042 | 3,377 | 4,120 | 11.20 | - | - | 8,884 | 9,859 | 12,127 |
| 6.80* | - | - | 3,042 | 3,377 | 4,120 | 11.30 | - | - | 8,884 | 9,859 | 12,127 |
| 6.90* | - | - | 3,328 | 3,692 | 4,493 | 11.40 | - | - | 8,884 | 9,859 | 12,127 |
| 7.00* | - | J | 3,328 | 3,692 | 4,493 | 11.50* | - | - | 9,360 | 10,388 | 12,776 |
| 7.10 | - | - | 3,328 | 3,692 | 4,493 | 11.51 | 29/64 | - | 9,360 | 10,388 | 12,776 |
| 7.14 | 9/32* | K | 3,328 | 3,692 | 4,493 | 11.60 | - | - | 9,360 | 10,388 | 12,776 |
| 7.20 | - | - | 3,328 | 3,692 | 4,493 | 11.70 | - | - | 9,360 | 10,388 | 12,776 |
| 7.30* | - | - | 3,516 | 3,905 | 4,760 | 11.80* | - | - | 9,360 | 10,388 | 12,776 |
| 7.40 | - | - | 3,516 | 3,905 | 4,760 | 11.90 | - | - | 10,003 | 11,109 | 13,654 |
| 7.50* | - | - | 3,516 | 3,905 | 4,760 | 11.91 | 15/32 | - | 10,003 | 11,109 | 13,654 |
| 7.54 | 19/64* | - | 3,818 | 4,238 | 5,162 | 12.00* | - | - | 10,003 | 11,109 | 13,654 |
| 7.60 | - | - | 3,819 | 4,238 | 5,161 | 12.10 | - | - | 10,003 | 11,109 | 13,654 |
| 7.70 | - | - | 3,819 | 4,238 | 5,161 | 12.20 | - | - | 10,003 | 11,109 | 13,654 |
| 7.80* | - | - | 3,819 | 4,238 | 5,161 | 12.30 | 31/64 | - | 10,610 | 11,779 | 14,483 |
| 7.90* | - | - | 4,173 | 4,632 | 5,640 | 12.40 | - | - | 10,610 | 11,779 | 14,483 |
| 7.94 | 5/16* | - | 4,173 | 4,632 | 5,640 | 12.50* | - | - | 10,610 | 11,779 | 14,483 |
| 8.00* | - | - | 4,173 | 4,632 | 5,640 | 12.60 | - | - | 10,610 | 11,779 | 14,483 |
| 8.03 | - | O | 4,173 | 4,632 | 5,640 | 12.70 | 1/2* | - | 11,197 | 12,429 | 15,284 |
| 8.10* | - | - | 4,173 | 4,632 | 5,640 | 12.80 | - | - | 11,197 | 12,429 | 15,284 |
| 8.20* | - | - | 4,173 | 4,632 | 5,640 | 12.90 | - | - | 11,197 | 12,429 | 15,284 |
| 8.30 | - | - | 4,958 | 5,503 | 6,830 | 13.00* | - | - | 11,197 | 12,429 | 15,284 |
| 8.33 | 21/64* | - | 4,958 | 5,503 | 6,830 | 13.10 | 33/64 | - | 13,932 | 15,465 | 19,017 |
| 8.40 | - | - | 4,958 | 5,503 | 6,830 | 13.20 | - | - | 13,932 | 15,465 | 19,017 |
| 8.50* | - | - | 4,958 | 5,503 | 6,830 | 13.30 | - | - | 13,932 | 15,465 | 19,017 |
| 8.60* | - | - | 4,958 | 5,503 | 6,830 | 13.40 | - | - | 13,932 | 15,465 | 19,017 |
| 8.70* | - | - | 4,958 | 5,503 | 6,830 | 13.49 | 17/32* | - | 14,816 | 16,448 | 20,224 |
| 8.73 | 11/32* | - | 5,287 | 5,869 | 7,270 | 13.50* | - | - | 14,816 | 16,448 | 20,224 |
| 8.80 | - | - | 5,287 | 5,869 | 7,270 | 13.60 | - | - | 14,816 | - | 20,224 |
| 8.90 | - | - | 5,287 | 5,869 | 7,270 | 13.70 | - | - | 14,816 | - | 20,224 |
| 9.00* | - | - | 5,287 | 5,869 | 7,270 | 13.80 | - | - | 14,816 | 16,448 | 20,224 |
| 9.10 | - | - | 5,456 | 6,060 | 7,453 | 13.89 | 35/64 | - | 16,090 | 17,864 | 21,963 |

| SIZES | | | PRICE Rs. / 10 Nos. | | |
|--------|-------|----|---------------------|--------------------|---------------------|
| MM | INCH | DG | STD JOBBER DRILLS | GOLD JOBBER DRILLS | SUPER JOBBER DRILLS |
| 13.90 | - | - | 16,090 | 17,863 | 21,947 |
| 14.00* | - | - | 16,090 | 17,863 | 21,947 |
| 14.25 | - | - | 16,090 | 17,863 | 21,947 |
| 14.29 | 9/16 | - | 16,866 | 18,723 | 23,005 |
| 14.50* | - | - | 18,160 | 18,723 | 24,770 |
| 14.68 | 37/64 | - | 18,160 | 20,160 | 24,770 |
| 14.75 | - | - | 18,160 | 20,160 | 24,770 |
| 15.00* | - | - | 18,160 | 20,160 | 24,770 |
| 15.08 | 19/32 | - | 18,160 | 20,160 | 24,770 |
| 15.25 | - | - | 18,160 | 20,160 | 24,770 |

| SIZES | | | PRICE Rs. / 10 Nos. | | |
|--------|-------|----|---------------------|--------------------|---------------------|
| MM | INCH | DG | STD JOBBER DRILLS | GOLD JOBBER DRILLS | SUPER JOBBER DRILLS |
| 15.50* | - | - | 19,712 | 21,880 | 27,104 |
| 15.75 | - | - | 19,712 | 21,880 | 27,104 |
| 15.87 | 5/8* | - | | | - |
| 16.00* | - | - | 19,712 | 21,880 | 27,104 |
| 17.00 | - | - | 20,866 | 23,164 | |
| 17.46 | 11/16 | - | 20,866 | 23,164 | |
| 18.00 | - | - | 22,584 | 25,071 | |
| 19.00 | - | - | 23,878 | 26,506 | |
| 19.05 | 3/4 | - | 23,878 | 26,506 | |
| 20.00 | - | - | | | |

DRILL SET (IS : 5101 - 1991)

| DRILL SET | PRICE Rs. / SET | |
|----------------------------|--------------------|--------------------|
| | STD. JOBBER DRILLS | GOLD JOBBER DRILLS |
| 1.50 TO 6.50 MM (13 Pcs.) | 1,884 | 2,093 |
| 1.00 TO 10.00 MM (19 Pcs.) | 5,249 | |
| 1.00 TO 13.00 MM (25 Pcs.) | 11,115 | 12,337 |
| 1/16 TO 1/4 INCH (13 Pcs.) | 1,884 | 2,093 |
| 1/16 TO 3/8 INCH (21 Pcs.) | 5,601 | 6,226 |
| 1/16 TO 1/2 INCH (29 Pcs.) | 12,354 | |

HSS PARALLEL SHANK STUB SERIES (IS : 5100 - 1969)

| SIZES | | PRICE Rs. / 10 Nos. | | |
|-------|-------|---------------------|------------------|-------------------|
| MM | INCH | STD. STUB DRILLS | GOLD STUB DRILLS | SUPER STUB DRILLS |
| 1.50 | | 558 | 618 | - |
| 1.60 | | 558 | 618 | - |
| 1.90 | | - | | - |
| 2.00 | | 558 | 618 | - |
| 2.20 | | 558 | 618 | - |
| 2.50 | | 558 | 618 | - |
| 2.78 | 7/64 | 558 | 618 | - |
| 2.90 | | 606 | 675 | - |
| 3.00 | - | 560 | 624 | 801 |
| 3.17 | 1/8* | 662 | 736 | 944 |
| 3.20 | - | 699 | 774 | 995 |
| 3.50 | - | 699 | 774 | 995 |
| 3.57 | 9/64 | 699 | 774 | 995 |
| 3.97 | 5/32* | 992 | 1,100 | 1,415 |
| 4.00 | - | 992 | 1,100 | 1,415 |
| 4.20 | - | 1,116 | 1,238 | 1,590 |
| 4.50 | - | 1,475 | 1,641 | 2,106 |
| 4.76 | 3/16 | 1,475 | 1,641 | 2,106 |
| 5.00 | - | 1,580 | 1,753 | 2,251 |
| 5.16 | 13/64 | 1,580 | 1,753 | 2,251 |
| 5.50 | - | 1,712 | 1,901 | 2,438 |
| 5.56 | 7/32 | 1,712 | | 2,438 |
| 6.00 | - | 1,938 | 2,147 | 2,760 |

| SIZES | | PRICE Rs. / 10 Nos. | | |
|-------|-------|---------------------|------------------|-------------------|
| MM | INCH | STD. STUB DRILLS | GOLD STUB DRILLS | SUPER STUB DRILLS |
| 6.35 | 1/4 | 2,164 | 2,402 | 3,086 |
| 6.50 | - | 2,654 | 2,946 | 3,783 |
| 6.75 | 17/64 | 2,654 | | 3,783 |
| 6.80 | - | 2,654 | 2,946 | 3,783 |
| 7.00 | - | 2,916 | 3,235 | 4,157 |
| 7.14 | 9/32* | 2,916 | 3,235 | 4,157 |
| 7.50 | - | 3,022 | 3,354 | 4,310 |
| 7.94 | 5/16* | 3,660 | 4,064 | 5,220 |
| 8.00 | - | 3,595 | 3,992 | 5,127 |
| 8.50 | - | 4,500 | 4,996 | 6,419 |
| 9.00 | - | 4,700 | 5,217 | 6,703 |
| 9.50 | - | 4,959 | 5,504 | 7,070 |
| 9.52 | 3/8 | 5,179 | 5,749 | 7,384 |
| 10.00 | - | 6,338 | 7,039 | 9,041 |
| 10.50 | - | 6,819 | 7,570 | - |
| 11.00 | - | 7,678 | 8,523 | 10,947 |
| 11.11 | 7/16 | 8,523 | 8,879 | 11,406 |
| 12.00 | - | 9,060 | 10,058 | 12,920 |
| 12.70 | 1/2 | 10,033 | 11,136 | 14,308 |
| 13.00 | - | 10,033 | 11,136 | 14,308 |
| 14.00 | - | 13,675 | 15,177 | - |
| 15.00 | - | 15,399 | 17,093 | - |
| 16.00 | - | 16,694 | 18,533 | - |

HSS DRILLS

HSS PARALLEL SHANK LONG SERIES (IS : 5102 - 1969)

| SIZES | | PRICE Rs. / PIECE | SIZES | | PRICE Rs. / PIECE | SIZES | | PRICE Rs. / PIECE |
|-------|------|----------------------|-------|-------|----------------------|-------|------|----------------------|
| MM | INCH | | MM | INCH | | MM | INCH | |
| 1.00 | - | 300 | 3.57 | 9/64 | 390 | 7.00 | - | 1,090 |
| 1.10 | - | 300 | 3.70 | - | 422 | 7.20 | - | 1,090 |
| 1.19 | - | 300 | 3.80 | - | 422 | 7.50 | - | 1,090 |
| 1.20 | - | 300 | 3.97 | 5/32 | 422 | 7.80 | - | 1,090 |
| 1.30 | - | 300 | 4.00 | - | 422 | 7.94 | 5/16 | 1,122 |
| 1.40 | - | 300 | 4.10 | - | 422 | 8.00 | - | 1,122 |
| 1.50 | - | 300 | 4.20 | - | 422 | 8.10 | - | 1,122 |
| 1.59 | 1/16 | 300 | 4.30 | - | 422 | 8.20 | - | 1,122 |
| 1.60 | - | 300 | 4.50 | - | 422 | 8.50 | - | 1,122 |
| 1.70 | - | 300 | 4.76 | 3/16 | 422 | 9.00 | - | 1,242 |
| 1.80 | - | 300 | 4.80 | - | 422 | 9.50 | - | 1,242 |
| 1.90 | - | 300 | 4.90 | - | 489 | 9.52 | 3/8 | 1,242 |
| 1.98 | 5/64 | 300 | 5.00 | - | 489 | 9.80 | - | 1,447 |
| 2.00 | - | 300 | 5.10 | - | 489 | 10.00 | - | 1,564 |
| 2.10 | - | 300 | 5.16 | 13/64 | 489 | 10.20 | - | 1,637 |
| 2.20 | - | 300 | 5.20 | - | 489 | 10.50 | - | 1,684 |
| 2.30 | - | 384 | 5.30 | - | 573 | 11.00 | - | 1,910 |
| 2.38 | 3/32 | 384 | 5.50 | - | 573 | 11.50 | - | 1,739 |
| 2.40 | - | 384 | 5.56 | 7/32 | 573 | 11.80 | - | 1,739 |
| 2.50 | - | 384 | 5.60 | - | 620 | 12.00 | - | 1,739 |
| 2.60 | - | 384 | 5.80 | - | 620 | 12.50 | - | 2,412 |
| 2.70 | - | 384 | 5.90 | - | 620 | 12.70 | 1/2 | 2,680 |
| 2.78 | 7/64 | 384 | 5.95 | 15/64 | 620 | 13.00 | - | 2,680 |
| 2.80 | - | 384 | 6.00 | - | 620 | 13.50 | - | 2,680 |
| 2.90 | - | 384 | 6.10 | - | 702 | 14.00 | - | 2,680 |
| 3.00 | - | 390 | 6.35 | 1/4 | 644 | 14.29 | 9/16 | 2,680 |
| 3.10 | - | 390 | 6.50 | - | 902 | 14.50 | - | 2,804 |
| 3.17 | 1/8 | 390 | 6.60 | - | 1,090 | 15.00 | - | 2,804 |
| 3.20 | - | 390 | 6.75 | 17/64 | 1,090 | 15.50 | - | 2,916 |
| 3.30 | - | 390 | 6.80 | - | 1,090 | 15.87 | 5/8 | 2,916 |
| 3.50 | - | 390 | 6.90 | - | 1,090 | 16.00 | - | |

Note : Minimum order value required is Rs.20000/- nett.

HSS PARALLEL SHANK - EXTRA LONG SERIES

| SIZES | | OAL MM FL MM | PRICE Rs. / PIECE | | | | | | |
|-------|-------|-----------------|-------------------|-------|-------|-------|-------|-------|-------|
| MM | INCH | | 150 | 175 | 200 | 225 | 250 | 300 | 350 |
| 3.00 | 1/8 | - | 1,133 | 1,365 | 1,561 | 1,840 | 2,206 | 2,645 | - |
| 3.50 | - | - | 1,179 | 1,373 | 1,570 | 2,131 | 2,364 | 3,121 | - |
| 4.00 | 5/32 | - | 1,132 | 1,373 | 1,570 | 2,134 | 2,372 | 3,121 | 4,296 |
| 4.50 | - | - | 1,140 | 1,407 | 1,607 | 2,137 | 2,377 | 3,345 | 4,405 |
| 5.00 | 3/16 | - | 1,169 | 1,439 | 1,637 | 2,177 | 2,427 | 3,422 | |
| 5.50 | 7/32 | - | 1,235 | 1,514 | 1,739 | 2,337 | 2,589 | 3,429 | 4,517 |
| 6.00 | - | - | 1,235 | 1,551 | 1,768 | 2,395 | 2,663 | 3,520 | 5,238 |
| 6.50 | 1/4 | - | - | - | 2,141 | - | 3,092 | 3,987 | 5,238 |
| 7.00 | - | - | - | - | 2,248 | - | 3,364 | 4,035 | 5,861 |
| 7.50 | 9/32 | - | - | - | 2,372 | - | 3,555 | 4,269 | 5,883 |
| 8.00 | 5/16 | - | - | - | 2,508 | - | 3,767 | 4,340 | 6,018 |
| 8.50 | 11/32 | - | - | - | 2,595 | - | 3,834 | 4,470 | 5,476 |
| 9.00 | - | - | - | - | 2,603 | - | 3,834 | 4,470 | 5,476 |
| 9.50 | 3/8 | - | - | - | 2,678 | - | 3,843 | 4,608 | |
| 10.00 | - | - | - | - | 2,720 | - | 3,924 | 5,207 | 6,396 |
| 10.50 | 13/32 | - | - | - | 2,955 | - | 4,077 | 5,476 | |
| 11.00 | 7/16 | - | - | - | - | - | 4,112 | 5,597 | 7,237 |
| 11.50 | - | - | - | - | - | - | 4,310 | 5,703 | 7,523 |
| 12.00 | 15/32 | - | - | - | - | - | 4,321 | 5,720 | |
| 12.50 | 1/2 | - | - | - | - | - | | 6,064 | |

Note : Other details will be maintained as per IS : 7823 - 2005.
Minimum order value required is Rs.20000/- nett.

HSS DRILLS
HSS CENTRE DRILLS



| TYPE 'A' & 'R' IS : 6708/6710 - 1977 | | | TYPE 'B' IS : 6709 - 1977 | | | B.S. 328 (PART 2) 1950 | | | |
|--------------------------------------|-------------|-----------------|---------------------------|-------------|-----------------|--------------------------|----------------|---------------|-----------------|
| PILOT DIA MM | BODY DIA MM | PRICE RS./PIECE | PILOT DIA MM | BODY DIA MM | PRICE RS./PIECE | SIZE B.S. NO. | PILOT DIA INCH | BODY DIA INCH | PRICE RS./PIECE |
| 1.00 | 3.15 | 268 | 1.00 | 4.00 | 439 | BS-1 | 3/64" | 1/8" | 268 |
| 1.25 | 3.15 | 268 | 1.25 | 5.00 | 473 | BS-2 | 1/16" | 3/16" | 268 |
| 1.60 | 4.00 | 268 | 1.60 | 6.30 | 553 | BS-3 | 3/32" | 1/4" | 307 |
| 2.00 | 5.00 | 268 | 2.00 | 8.00 | 777 | BS-4 | 1/8" | 5/16" | 478 |
| 2.50 | 6.30 | 307 | 2.50 | 10.00 | 991 | BS-5 | 3/16" | 7/16" | 631 |
| 3.15 | 8.00 | 478 | 3.15 | 11.20 | 1,326 | BS-6 | 1/4" | 5/8" | 1,185 |
| 4.00 | 10.00 | 591 | 4.00 | 14.00 | 1,776 | - | - | - | - |
| 5.00 | 12.50 | 1,005 | - | - | - | - | - | - | - |
| 6.30 | 16.00 | 1,185 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |

HSS TAPER SHANK DRILLS
IS : 5103 - 1969

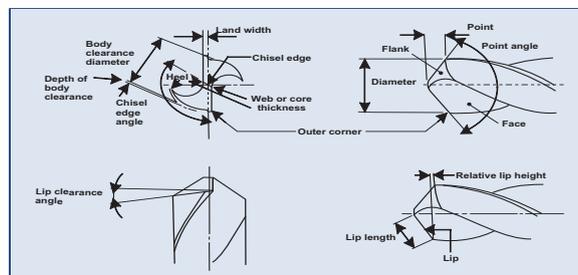
| SIZES | | PRICE RS. / PIECE | | SIZES | | PRICE RS. / PIECE | | SIZES | | PRICE RS. / PIECE | |
|-------|--------|-------------------|-------|-------|--------|-------------------|-------|-------|--------|-------------------|-------|
| MM | INCH | REGULAR | SUPER | MM | INCH | REGULAR | SUPER | MM | INCH | REGULAR | SUPER |
| 3.00 | - | | | 10.20 | - | 1,270 | 1,721 | 17.25 | - | 3,208 | 4,347 |
| 3.20 | - | 508 | 688 | 10.50 | - | 1,504 | 2,038 | 17.46 | 11/16* | 3,208 | 4,347 |
| 3.50 | - | 484 | 656 | 10.80 | - | 1,573 | 2,131 | 17.50 | - | 3,325 | 4,505 |
| 3.80 | - | 508 | 688 | 11.00 | - | 1,573 | 2,131 | 17.75 | - | 3,364 | 4,558 |
| 4.00 | - | 484 | 656 | 11.11 | 7/16* | 1,573 | 2,131 | 18.00 | - | 3,518 | 4,767 |
| 4.20 | - | 653 | 885 | 11.20 | - | 1,617 | 2,191 | 18.25 | - | 3,518 | 4,767 |
| 4.50 | - | 653 | 885 | 11.50 | - | 1,617 | 2,191 | 18.26 | 23/32 | 3,518 | 4,767 |
| 4.76 | 3/16 | 653 | 885 | 11.80 | - | 1,617 | 2,191 | 18.50 | - | 3,518 | 4,767 |
| 4.80 | - | 672 | 911 | 12.00 | - | 1,642 | 2,225 | 18.75 | - | 3,549 | 4,809 |
| 5.00 | - | 653 | 885 | 12.20 | - | 1,642 | 2,225 | 19.00 | - | 3,549 | 4,809 |
| 5.20 | - | 672 | 911 | 12.50 | - | 1,642 | 2,225 | 19.05 | 3/4* | 3,549 | |
| 5.50 | - | 653 | 885 | 12.70 | 1/2* | 1,642 | 2,225 | 19.25 | - | 3,728 | 5,051 |
| 5.80 | - | 672 | 911 | 12.80 | - | 2,274 | 3,081 | 19.50 | - | 3,728 | 5,051 |
| 6.00 | - | 653 | 885 | 13.00 | - | 2,274 | 3,081 | 19.75 | - | 3,728 | 5,051 |
| 6.20 | - | 741 | 1,004 | 13.20 | - | 2,381 | 3,226 | 19.84 | 25/32 | 3,728 | 5,051 |
| 6.35 | 1/4* | 729 | 988 | 13.49 | 17/32* | 2,381 | 3,226 | 20.00 | - | 4,007 | 5,429 |
| 6.50 | - | 745 | 1,009 | 13.50 | - | 2,548 | 3,453 | 20.25 | 51/64 | 4,048 | 5,485 |
| 6.75 | 17/64* | | | 13.80 | - | 2,548 | 3,453 | 20.50 | - | 4,048 | 5,485 |
| 6.80 | - | 755 | 1,023 | 14.00 | - | 2,548 | 3,453 | 20.64 | 13/16* | 4,048 | 5,485 |
| 7.00 | - | 745 | 1,009 | 14.25 | - | 2,728 | 3,696 | 20.75 | - | 4,232 | 5,734 |
| 7.20 | - | 755 | 1,023 | 14.29 | 9/16* | 2,728 | 3,696 | 21.00 | - | 4,232 | 5,734 |
| 7.50 | - | 745 | 1,009 | 14.50 | - | 2,849 | 3,860 | 21.25 | - | 4,346 | |
| 7.80 | - | 755 | 1,023 | 14.75 | - | 2,849 | 3,860 | 21.43 | 27/32 | | |
| 7.94 | 5/16* | 745 | 1,009 | 15.00 | - | 2,849 | 3,860 | 21.50 | - | 4,463 | 6,047 |
| 8.00 | - | 745 | 1,009 | 15.25 | - | 2,895 | | 21.75 | - | 4,463 | 6,047 |
| 8.20 | - | | | 15.50 | - | 2,895 | 3,923 | 22.00 | - | 4,549 | 6,164 |
| 8.50 | - | 970 | 1,314 | 15.75 | - | 2,895 | 3,923 | 22.22 | 7/8 | 4,549 | 6,164 |
| 8.80 | - | 1,174 | 1,591 | 15.87 | 5/8* | 2,895 | | 22.25 | - | 4,959 | 6,719 |
| 9.00 | - | 1,067 | 1,446 | 16.00 | - | 2,960 | 4,011 | 22.50 | - | 4,959 | 6,719 |
| 9.20 | - | 1,174 | 1,591 | 16.25 | - | 2,960 | 4,011 | 22.75 | - | 5,055 | 6,850 |
| 9.50 | - | 1,067 | 1,446 | 16.50 | - | 3,164 | 4,287 | 23.00 | 29/32 | 5,055 | 6,850 |
| 9.52 | 3/8* | 1,067 | 1,446 | 16.67 | 21/32 | 3,164 | 4,287 | 23.25 | - | 5,301 | 7,183 |
| 9.80 | - | 1,257 | 1,703 | 16.75 | - | 3,164 | 4,287 | 23.50 | - | 6,033 | 8,175 |
| 10.00 | - | 1,135 | 1,538 | 17.00 | - | 3,164 | 4,287 | 23.75 | - | 6,033 | 8,175 |

Note : • For Super Series : Minimum order value required is Rs. 20000/- nett or
 • MOQ : From 3mm to 10mm - 50 Nos., From 20mm to 32mm - 10 Nos. Above 50mm - 2 Nos.
 From 10mm to 20mm - 30 Nos. From 32mm to 50mm - 5 Nos.

| SIZES | | PRICE RS. / PIECE | |
|--------|--------|-------------------|--------|
| MM | INCH | REGULAR | SUPER |
| 24.00* | - | 6,191 | 8,389 |
| 24.25 | - | 6,303 | 8,541 |
| 24.50* | - | 6,303 | |
| 24.75 | - | 6,598 | 8,940 |
| 25.00* | 63/64 | 6,598 | 8,940 |
| 25.40 | 1* | 6,688 | 9,062 |
| 25.50* | - | 7,262 | |
| 25.75 | - | 7,262 | 9,840 |
| 26.00* | - | 7,326 | 9,927 |
| 26.25 | - | 7,876 | 10,672 |
| 26.50* | - | 8,054 | 10,913 |
| 27.00* | - | 8,312 | 11,263 |
| 27.25 | - | 8,329 | 11,286 |
| 27.50 | - | 8,329 | |
| 27.75 | - | | |
| 28.00* | - | 9,152 | 12,401 |
| 28.25 | - | 9,152 | 12,401 |
| 28.50 | - | 9,152 | 12,401 |
| 28.58 | 1.1/8 | 9,152 | 12,401 |
| 28.75 | - | 9,420 | 12,764 |
| 29.00* | - | 9,558 | 12,951 |
| 29.25 | - | 9,558 | 12,951 |
| 29.50 | - | 9,607 | 13,017 |
| 29.75 | - | | |
| 30.00* | - | 9,808 | 13,290 |
| 30.25 | - | 11,151 | 15,110 |
| 30.50* | - | 11,151 | |
| 30.75 | - | 11,331 | 15,354 |
| 31.00* | - | 12,607 | |
| 31.50 | - | 13,175 | 17,852 |
| 31.75 | 1.1/4 | 13,175 | 17,852 |
| 32.00* | - | 14,424 | 19,545 |
| 32.50 | - | 14,424 | 19,545 |
| 33.00* | - | 14,785 | |
| 33.34 | 1.5/16 | | |
| 33.50 | - | 15,294 | 20,723 |
| 34.00* | - | 15,590 | 21,124 |
| 34.50 | - | 17,068 | 23,127 |
| 34.93 | 1.3/8 | 17,205 | 23,313 |
| 35.00* | - | 17,205 | 23,313 |
| 35.50 | - | 18,253 | 24,733 |
| 36.00* | - | 18,523 | 25,099 |

| SIZES | | PRICE RS. / PIECE | |
|--------|---------|-------------------|--------|
| MM | INCH | REGULAR | SUPER |
| 36.50 | 1.7/16 | 18,883 | 25,586 |
| 37.00* | - | 19,337 | |
| 37.50 | - | 20,616 | 27,935 |
| 38.00* | - | 20,935 | 28,367 |
| 38.10 | 1.1/2 | 20,935 | 28,367 |
| 38.50 | 1.33/64 | 21,568 | 29,225 |
| 39.00* | - | 22,847 | |
| 39.50 | - | 22,847 | 30,958 |
| 39.69 | 1.9/16 | 22,847 | 30,958 |
| 40.00* | - | 23,440 | 31,761 |
| 40.50 | - | 24,797 | 33,600 |
| 41.00 | - | 24,797 | 33,600 |
| 41.27 | 1.5/8 | 24,797 | 33,600 |
| 41.50 | - | 25,768 | 34,916 |
| 42.00* | - | 25,768 | |
| 42.50 | - | 26,424 | 35,805 |
| 43.00 | - | 27,381 | |
| 43.50 | - | 27,381 | 37,101 |
| 44.00 | - | 28,345 | |
| 44.45 | 1.3/4 | 28,345 | 38,407 |
| 44.50 | - | 28,345 | 38,407 |
| 45.00* | - | 29,009 | |
| 45.50 | - | 30,325 | 41,090 |
| 46.00 | - | 30,325 | 41,090 |
| 46.50 | - | | |
| 47.00 | - | 31,847 | 43,153 |
| 47.50 | - | 32,517 | 44,061 |
| 47.62 | 1.7/8 | 32,517 | 44,061 |
| 48.00 | - | 35,459 | 48,047 |
| 48.50 | - | 35,724 | 48,406 |
| 49.00 | - | 35,724 | 48,406 |
| 49.50 | - | 36,100 | 48,916 |
| 50.00 | - | 36,100 | |
| 50.50 | - | 38,027 | 51,527 |
| 50.80 | 2 | 38,027 | 51,527 |
| 51.00 | - | 51,622 | 69,948 |
| 52.00 | - | 51,622 | 69,948 |
| 52.50 | - | 67,185 | 91,036 |
| 53.00 | - | 67,185 | 91,036 |
| 53.50 | - | 67,185 | 91,036 |
| 53.97 | 2.1/8 | 67,185 | 91,036 |
| 54.00 | - | 67,185 | 91,036 |

| SIZES | | PRICE RS. / PIECE | |
|-------|--------|-------------------|----------|
| MM | INCH | REGULAR | SUPER |
| 54.50 | - | 70,577 | 95,632 |
| 55.00 | - | 70,577 | 95,632 |
| 55.50 | - | 70,577 | 95,632 |
| 55.56 | 2.3/16 | 70,577 | 95,632 |
| 56.00 | - | 73,541 | 99,648 |
| 56.50 | - | 73,541 | 99,648 |
| 57.00 | - | 73,541 | 99,648 |
| 57.15 | 2.1/4 | 73,541 | 99,648 |
| 57.50 | - | 80,261 | 1,08,754 |
| 58.00 | - | 80,261 | 1,08,754 |
| 58.50 | - | 80,261 | 1,08,754 |
| 58.74 | 2.5/16 | 80,261 | 1,08,754 |
| 59.00 | - | 81,794 | 1,10,831 |
| 59.50 | - | 81,794 | 1,10,831 |
| 60.00 | - | 81,794 | 1,10,831 |
| 60.32 | 2.3/8 | 81,794 | 1,10,831 |
| 60.50 | - | 86,942 | 1,17,806 |
| 61.00 | - | 86,942 | 1,17,806 |
| 61.50 | - | 86,942 | 1,17,806 |
| 62.00 | - | 86,942 | 1,17,806 |
| 62.50 | - | 86,942 | 1,17,806 |
| 63.00 | - | 88,406 | 1,19,790 |
| 63.50 | 2.1/2 | 88,406 | 1,19,790 |
| 64.00 | - | 97,702 | 1,32,386 |
| 65.00 | - | 97,702 | 1,32,386 |
| 65.09 | 2.9/16 | 97,702 | 1,32,386 |
| 66.00 | - | 98,436 | 1,33,381 |
| 66.67 | 2.5/8 | 98,436 | 1,33,381 |
| 67.00 | - | 1,00,834 | 1,36,630 |
| 68.00 | - | 1,08,063 | 1,46,425 |
| 69.00 | - | 1,17,142 | 1,58,727 |
| 69.85 | 2.3/4 | 1,17,142 | 1,58,727 |
| 70.00 | - | 1,17,142 | 1,58,727 |
| 71.00 | - | 1,26,381 | 1,71,246 |
| 71.50 | - | 1,26,381 | 1,71,246 |
| 72.00 | - | 1,28,866 | 1,74,613 |
| 73.00 | - | 1,28,866 | 1,74,613 |
| 73.02 | 2.7/8 | 1,28,866 | 1,74,613 |
| 74.00 | - | 1,37,132 | 1,85,814 |
| 75.00 | - | 1,38,908 | 1,88,220 |
| 76.00 | - | 1,38,908 | 1,88,220 |
| 76.20 | 3 | 1,38,908 | 1,88,220 |



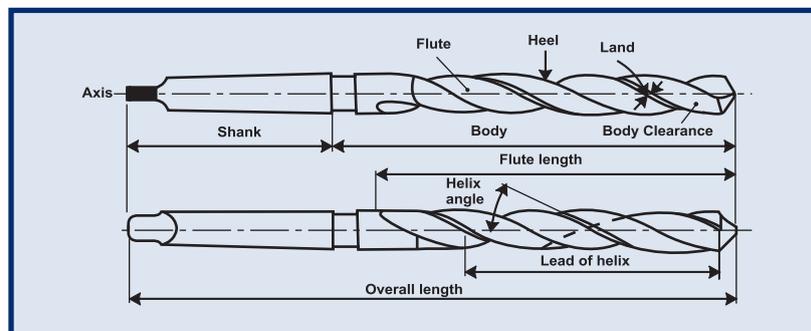
Note : • For Super Series : Minimum order value required is Rs. 20000/- nett or
 • MOQ : From 3mm to 10mm - 50 Nos., From 20mm to 32mm - 10 Nos. Above 50mm - 2 Nos.
 From 10mm to 20mm - 30 Nos. From 32mm to 50mm - 5 Nos.

HSS DRILLS
HSS TAPER SHANK TWIST DRILLS (LONG SERIES)
IS : 8305 - 1976 (Type N)



| SIZES | | OAL | PRICE Rs. / PIECE |
|-------|-------|-----|----------------------|
| MM | INCH | MM | |
| 5.00 | - | 155 | 1,596 |
| 5.16 | 13/64 | 155 | 1,596 |
| 5.56 | 7/32 | 161 | 1,781 |
| 6.00 | - | 161 | 1,781 |
| 6.35 | 1/4 | 167 | 1,992 |
| 6.50 | - | 167 | 1,992 |
| 7.00 | - | 174 | 2,140 |
| 7.50 | - | 174 | 2,212 |
| 7.94 | 5/16 | 181 | 2,337 |
| 8.00 | - | 181 | |
| 8.50 | - | 181 | 2,387 |
| 9.00 | - | 188 | 2,584 |
| 9.50 | - | 188 | 2,644 |
| 9.52 | 3/8 | 197 | 2,644 |
| 10.00 | - | 197 | 3,006 |
| 10.50 | - | 197 | 3,092 |
| 11.00 | - | 206 | |
| 11.11 | 7/16 | 206 | 3,274 |
| 11.50 | - | 206 | 3,274 |
| 12.00 | - | 215 | 3,888 |
| 12.50 | - | 215 | 4,098 |
| 12.70 | 1/2 | 215 | 4,098 |
| 13.00 | - | 215 | 4,098 |
| 13.49 | 17/32 | 223 | |
| 13.50 | - | 223 | 4,486 |
| 14.00 | - | 223 | 4,668 |
| 14.29 | 9/16 | 245 | 5,827 |
| 14.50 | - | 245 | 5,827 |
| 15.00 | - | 245 | |
| 15.50 | - | 251 | 6,096 |
| 15.87 | 5/8 | 251 | 6,253 |
| 16.00 | - | 251 | |
| 16.50 | - | 257 | |
| 17.00 | - | 257 | |
| 17.50 | - | 263 | |
| 18.00 | - | 263 | |
| 18.50 | - | 269 | 7,184 |
| 19.00 | - | 269 | 7,298 |
| 19.05 | 3/4 | 275 | 7,298 |

| SIZES | | OAL | PRICE Rs. / PIECE |
|-------|-------|-----|----------------------|
| MM | INCH | MM | |
| 19.50 | - | 275 | 7,497 |
| 20.00 | - | 275 | 7,624 |
| 20.50 | - | 282 | 7,750 |
| 21.00 | - | 282 | 7,894 |
| 21.43 | 27/32 | 289 | 9,169 |
| 21.50 | - | 289 | 9,169 |
| 21.75 | - | 289 | 9,356 |
| 22.00 | - | 289 | |
| 22.22 | 7/8 | 289 | 9,992 |
| 22.50 | - | 296 | 9,992 |
| 23.00 | - | 296 | 10,470 |
| 23.50 | - | 319 | 12,794 |
| 24.00 | - | 327 | 12,794 |
| 24.50 | - | 327 | 13,354 |
| 25.00 | - | 327 | |
| 25.40 | 1 | 335 | 13,836 |
| 25.50 | - | 335 | 13,836 |
| 26.00 | - | 335 | 14,391 |
| 26.50 | - | 335 | 14,809 |
| 27.00 | - | 343 | 17,553 |
| 27.50 | - | 343 | 18,110 |
| 28.00 | - | 343 | 18,673 |
| 28.50 | - | 351 | 19,270 |
| 29.00 | - | 351 | 19,813 |
| 29.50 | - | 351 | 20,365 |
| 30.00 | - | 351 | 20,942 |
| 30.50 | - | 360 | 21,494 |
| 31.00 | - | 360 | 21,494 |
| 31.50 | - | 360 | 21,650 |
| 32.00 | - | 397 | 25,903 |
| 32.50 | - | 397 | 27,019 |
| 33.00 | - | 397 | 27,019 |
| 34.00 | - | 406 | 28,196 |
| 34.50 | - | 406 | 29,432 |
| 35.00 | - | 406 | 29,432 |
| 36.00 | - | 416 | 32,254 |
| 38.00 | - | 426 | 36,236 |
| 38.10 | 1.1/2 | 426 | 37,423 |
| 40.00 | - | 426 | 38,907 |



HSS TAPER SHANK TWIST DRILLS (EXTRA LONG SERIES)

IS : 7822 - 2005

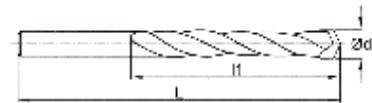
| SIZES | | OVERALL LENGTH IN MM | | | | | | | | | |
|-------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| | | 200 | 225 | 250 | 275 | 300 | 315 | 325 | 350 | 375 | 400 |
| MM | INCH | PRICE RS./PIECE | | | | | | | | | |
| 10.00 | - | 3,004 | 3,401 | | 4,482 | 5,162 | 5,636 | - | - | - | - |
| 10.50 | - | | 3,530 | 4,098 | 4,738 | | 5,877 | 6,176 | 7,065 | - | - |
| 11.00 | - | 3,158 | 3,641 | 4,135 | 4,810 | 5,529 | 6,072 | 6,338 | 7,190 | - | - |
| 11.50 | 7/16 | 3,274 | 3,716 | 4,244 | 4,936 | | 6,176 | 6,455 | 7,386 | - | - |
| 12.00 | - | - | | 4,425 | 5,127 | | 6,418 | | 7,624 | - | - |
| 12.50 | 1/2 | - | 4,098 | 4,576 | 5,314 | 6,057 | 6,620 | 6,924 | 7,984 | - | - |

| SIZES | | OVERALL LENGTH IN MM | | | | | | | | | |
|-------|-------|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| | | 250 | 275 | 300 | 315 | 325 | 350 | 375 | 400 | 450 | 500 |
| MM | INCH | PRICE RS./PIECE | | | | | | | | | |
| 13.00 | - | | 6,219 | | 8,030 | 8,066 | 9,178 | - | - | - | - |
| 13.50 | - | | 6,346 | 7,600 | 8,229 | 8,208 | 9,351 | - | - | - | - |
| 14.00 | - | 5,790 | 6,535 | 7,739 | 8,397 | 8,343 | 9,537 | 10,774 | | - | - |
| 14.50 | 9/16 | 5,827 | 6,621 | 7,849 | 8,440 | 8,463 | 9,715 | 10,958 | 12,310 | 16,152 | 20,380 |
| 15.00 | - | 5,958 | 6,772 | 8,044 | 8,620 | 8,667 | | 11,117 | 12,504 | | 20,589 |
| 15.50 | - | 6,096 | 6,923 | 8,118 | 8,791 | 8,785 | 10,065 | 11,329 | 12,672 | 16,502 | 20,768 |
| 16.00 | 5/8 | 6,253 | 7,040 | 8,279 | 8,914 | 8,948 | | 11,502 | 12,934 | 16,785 | |
| 16.50 | - | 6,360 | 7,136 | | 9,081 | 9,087 | 10,389 | 11,715 | | 16,966 | 21,124 |
| 17.00 | - | | 7,306 | 8,527 | 9,191 | | | 11,875 | | 17,172 | 21,321 |
| 17.50 | 11/16 | - | - | | 9,369 | | 10,760 | 12,074 | 13,509 | | 21,523 |
| 18.00 | - | - | - | 8,865 | 9,576 | 9,538 | 10,931 | 12,285 | 13,759 | 17,553 | 21,731 |
| 18.50 | - | - | - | 9,006 | 9,694 | 9,710 | 11,026 | 12,431 | | 17,752 | 21,940 |

| SIZES | | OVERALL LENGTH IN MM | | | | | | | | | |
|-------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 300 | 315 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 |
| MM | INCH | PRICE RS./PIECE | | | | | | | | | |
| 19.00 | 3/4 | 8,749 | 9,388 | 9,852 | 11,213 | 12,621 | 14,158 | 15,948 | 17,958 | 19,886 | 21,879 |
| 19.50 | - | | 9,493 | 9,951 | 11,418 | 12,872 | 14,446 | 16,152 | 18,089 | 20,124 | 22,279 |
| 20.00 | - | 9,010 | 9,651 | 10,140 | 11,548 | 13,045 | | 16,466 | | 20,347 | |
| 20.50 | - | 9,180 | 9,828 | 10,282 | 11,740 | 13,206 | 14,875 | 16,667 | 18,669 | 20,658 | 22,876 |
| 21.00 | 13/16 | 9,343 | 10,017 | 10,456 | | 13,481 | 15,121 | 17,026 | 18,975 | 21,039 | 23,239 |
| 21.50 | - | | 10,183 | 10,631 | | 13,738 | 15,408 | 17,277 | 19,351 | 21,418 | 23,705 |
| 22.00 | - | 9,743 | 10,453 | 10,932 | | 13,978 | | 17,553 | 19,657 | 21,758 | 24,084 |
| 22.50 | 7/8 | 9,992 | 10,672 | 11,170 | 12,639 | 14,158 | 15,833 | 17,852 | 19,948 | 22,137 | 24,491 |
| 23.00 | - | 10,470 | 11,172 | 11,585 | | 14,470 | 16,117 | 18,110 | 20,328 | 22,463 | 24,855 |
| 23.50 | - | 11,502 | - | 12,793 | 14,021 | 15,413 | 16,666 | 18,725 | 20,903 | 23,138 | 25,624 |
| 24.00 | 15/16 | 11,502 | - | 12,793 | 14,159 | 15,611 | | 19,318 | 21,564 | 23,766 | 26,307 |
| 24.50 | - | 11,861 | - | 13,354 | 14,806 | 16,152 | 17,842 | 19,948 | 22,179 | 24,465 | 27,019 |
| 25.00 | - | - | - | 13,840 | | 16,785 | 18,387 | 20,514 | 22,821 | 25,143 | 27,772 |
| 25.50 | 1 | - | - | - | 15,826 | 17,277 | 18,934 | 21,104 | 23,423 | 25,819 | 28,427 |
| 26.00 | - | - | - | - | 16,467 | | 19,552 | 21,731 | 24,111 | 26,490 | 29,178 |
| 26.50 | - | - | - | - | 16,966 | 18,426 | 20,094 | 22,333 | 24,731 | 27,114 | 29,893 |
| 27.00 | 1.1/16 | - | - | - | 17,553 | 19,076 | 20,691 | 22,926 | 25,350 | 27,821 | 30,595 |
| 27.50 | - | - | - | - | 18,110 | 19,559 | 21,203 | 23,533 | 25,985 | 28,466 | 31,283 |
| 28.00 | - | - | - | - | 18,673 | 20,124 | | 24,111 | 26,616 | 29,751 | 32,040 |
| 28.50 | 1.1/8 | - | - | - | | 20,717 | | 24,670 | 27,265 | 29,849 | 32,698 |

| SIZES | | OVERALL LENGTH IN MM | | | | | | | | | |
|-------|---------|----------------------|-----|-----|--------|--------|--------|--------|--------|--------|--------|
| | | 300 | 315 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 |
| MM | INCH | PRICE RS./PIECE | | | | | | | | | |
| 29.00 | - | - | - | - | 19,813 | 21,288 | 22,972 | 25,300 | 27,915 | 30,477 | 33,439 |
| 29.50 | - | - | - | - | 20,357 | 21,825 | 23,518 | | 28,507 | 31,163 | 34,175 |
| 30.00 | 1.3/16 | - | - | - | | 22,410 | 24,099 | 26,490 | 29,150 | 31,823 | 34,845 |
| 31.00 | 1.1/4 | - | - | - | 21,494 | 22,970 | 24,685 | 27,144 | 29,907 | 32,654 | 35,829 |
| 32.00 | - | - | - | - | 21,652 | 23,423 | | 28,466 | 31,352 | 34,175 | |
| 33.00 | 1.5/16 | - | - | - | - | - | | 29,733 | 32,751 | 35,698 | 39,128 |
| 34.00 | - | - | - | - | - | - | 28,199 | 30,993 | 34,157 | 37,247 | 40,811 |
| 35.00 | 1.3/8 | - | - | - | - | - | 29,432 | 32,356 | 35,563 | 38,806 | |
| 36.00 | - | - | - | - | - | - | 30,595 | 33,583 | 36,934 | 40,302 | 44,138 |
| 37.00 | 1.7/16 | - | - | - | - | - | 31,755 | 34,845 | 38,338 | 41,814 | 45,746 |
| 38.00 | 1.1/2 | - | - | - | - | - | 32,967 | 36,235 | 39,826 | 43,380 | 47,485 |
| 39.00 | - | - | - | - | - | - | 34,176 | 37,819 | 41,096 | 44,761 | 48,901 |
| 40.00 | - | - | - | - | - | - | - | 38,905 | 42,540 | 46,273 | 50,509 |
| 41.00 | 1.5/8 | - | - | - | - | - | - | - | - | - | |
| 42.00 | - | - | - | - | - | - | - | - | - | - | 54,503 |
| 43.00 | - | - | - | - | - | - | - | - | - | - | 56,915 |
| 44.00 | - | - | - | - | - | - | - | - | - | - | 59,294 |
| 45.00 | 1.3/4 | - | - | - | - | - | - | - | - | - | 61,710 |
| 46.00 | 1.13/16 | - | - | - | - | - | - | - | - | - | 64,319 |
| 47.00 | - | - | - | - | - | - | - | - | - | - | 66,919 |
| 48.00 | 1.7/8 | - | - | - | - | - | - | - | - | - | 69,530 |
| 49.00 | 1.15/16 | - | - | - | - | - | - | - | - | - | - |
| 50.00 | - | - | - | - | - | - | - | - | - | - | - |

**MASONRY DRILLS - CARBIDE TIPPED
(GROUND FLUTED & BRIGHT PLATED)**



| SIZES | | FLUTE LENGTH | OVERALL LENGTH | PRICE RS. / PIECE |
|-------|--------|--------------|----------------|-------------------|
| MM | INCH | | | STD DRILLS |
| 3 | 1/8" | 40 | 76 | 60 |
| 4 | 5/32" | 45 | 85 | 69 |
| 5 | 3/16" | 45 | 90 | 76 |
| 5.5 | 7/32" | 45 | 90 | 93 |
| 6 | 15/64" | 60 | 110 | 99 |
| 6.5 | 1/4" | 60 | 110 | 99 |
| 7 | 9/32" | 60 | 110 | 186 |
| 8 | 5/16" | 80 | 120 | 161 |
| 9 | 11/32" | 80 | 120 | 188 |
| 10 | 3/8" | 80 | 120 | 188 |
| 11 | 7/16" | 115 | 160 | 262 |
| 12 | 15/32" | 115 | 160 | 233 |
| 13 | 1/2" | 115 | 160 | 233 |

HSS ENDMILLS

**HSS PARALLEL SHANK ENDMILLS
IS 6353 - 1991 & BS-122 (PART-1) 1953**

| Dia | | Price Each Rs. | | Dia | | Price Each Rs. | | Dia | | Price Each Rs. | | Dia | | Price Each Rs. | |
|-----|------|----------------|-------|-----|-------|----------------|-------|-----|-------|----------------|--------|-----|-------|----------------|--------|
| MM | INCH | M2 | M42 | MM | INCH | M2 | M42 | MM | INCH | M2 | M42 | MM | INCH | M2 | M42 |
| 3* | 1/8 | 760 | 1,215 | 15* | - | 1,431 | 2,293 | 27 | - | 3,128 | 5,001 | 40 | - | 7,465 | 11,941 |
| 4* | 5/32 | 760 | 1,215 | 16* | 5/8 | 1,440 | 2,304 | 28 | 1.1/8 | 3,651 | 5,840 | 41 | 1.5/8 | 7,465 | 11,941 |
| 5* | 3/16 | 760 | 1,215 | 17 | - | 1,576 | 2,523 | 29 | - | 3,651 | 5,840 | 42 | - | 8,491 | 13,587 |
| 6* | 1/4* | 851 | 1,360 | 18* | - | 1,747 | 2,798 | 30* | - | 4,015 | 6,428 | 43 | - | 8,491 | 13,587 |
| 7 | - | 961 | 1,538 | 19* | 3/4 | 1,747 | 2,798 | 32 | 1.1/4 | 4,379 | 7,008 | 45 | 1.3/4 | 9,513 | 15,217 |
| 8* | 5/16 | 961 | 1,538 | 20* | 13/16 | 1,935 | 3,095 | 33 | - | 4,850 | 7,759 | 46 | - | 9,513 | 15,217 |
| 9* | 3/8* | 961 | 1,538 | 21 | - | 2,177 | 3,489 | 34 | 1.3/8 | 5,289 | 8,460 | 47 | 1.7/8 | 10,491 | 16,784 |
| 10* | - | 961 | 1,538 | 22* | 7/8 | 2,195 | 3,511 | 35 | - | 5,289 | 8,460 | 48 | - | 10,491 | 16,784 |
| 11 | 7/16 | 961 | 1,538 | 23 | - | 2,384 | 3,814 | 36 | - | 5,766 | 9,227 | 49 | - | 10,491 | 16,784 |
| 12* | 1/2* | 993 | 1,589 | 24* | - | 2,384 | 3,814 | 37 | - | 6,212 | 9,934 | 50 | - | 11,509 | 18,411 |
| 13 | - | 1,131 | 1,805 | 25* | 1.0 | 2,559 | 4,090 | 38 | - | 6,624 | 10,595 | - | - | - | - |
| 14* | 9/16 | 1,231 | 1,975 | 26 | - | 2,659 | 4,253 | 39 | - | 7,022 | 11,235 | - | - | - | - |

**HSS PARALLEL SHANK SLOT DRILLS
IS 6352 - 1991 & BS (PART - 1) 1953**

| Dia | | Price Each Rs. | | Dia | | Price Each Rs. | | Dia | | Price Each Rs. | | Dia | | Price Each Rs. | |
|-----|------|----------------|-------|-----|-------|----------------|-------|-----|-------|----------------|--------|-----|-------|----------------|--------|
| MM | INCH | M2 | M42 | MM | INCH | M2 | M42 | MM | INCH | M2 | M42 | MM | INCH | M2 | M42 |
| 3 | 1/8 | 926 | 1,483 | 14 | 9/16 | 1,440 | 2,304 | 26 | - | 3,903 | 6,247 | 43 | - | 8,981 | 14,371 |
| 4 | 5/32 | 926 | 1,483 | 15 | - | 1,623 | 2,600 | 30 | - | 4,794 | 7,669 | 44 | - | 8,981 | 14,371 |
| 5* | 3/16 | 926 | 1,483 | 16 | 5/8 | 1,621 | 2,594 | 32 | 1.1/4 | 4,794 | 7,669 | 45 | 1.3/4 | 8,981 | 14,371 |
| 6* | 1/4 | 993 | 1,592 | 18 | - | 1,994 | 3,186 | 34 | 1.3/8 | 5,766 | 9,227 | 46 | - | 9,971 | 15,953 |
| 7 | - | 993 | 1,592 | 20* | 3/4 | 1,994 | 3,186 | 35 | - | 5,766 | 9,227 | 47 | 1.7/8 | 9,971 | 15,953 |
| 8* | 5/16 | 993 | 1,592 | 21 | 13/16 | 2,327 | 3,722 | 36 | - | 6,189 | 9,903 | 48 | - | 9,971 | 15,953 |
| 9 | 3/8 | 993 | 1,592 | 22 | 7/8 | 2,327 | 3,722 | 38 | 1.1/2 | 6,677 | 10,681 | 49 | - | 10,936 | 17,499 |
| 10* | - | 1,027 | 1,641 | 23 | - | 2,764 | 4,424 | 40 | - | 7,139 | 11,423 | 50 | 2.0 | 10,936 | 17,499 |
| 11 | - | 1,027 | 1,641 | 24 | - | 2,764 | 4,424 | 41 | - | 8,080 | 12,927 | - | - | - | - |
| 12 | 1/2 | 1,126 | 1,801 | 25 | 1.0 | 2,764 | 4,424 | 42 | - | 8,080 | 12,927 | - | - | - | - |

**HSS PARALLEL SHANK ENDMILLS - : LONG SERIES
IS 6353 - 1991**

| Dia | | Price Each Rs. | | Dia | | Price Each Rs. | | Dia | | Price Each Rs. | | Dia | | Price Each Rs. | |
|-----|-------|----------------|-----|-------|-------|----------------|-------|-------|----|----------------|--------|-----|--------|----------------|--|
| MM | M2 | M42 | MM | M2 | M42 | MM | M2 | M42 | MM | M2 | M42 | MM | M2 | M42 | |
| 3 | 987 | 1,580 | 9 | 1,251 | 1,998 | 20 | 2,517 | 4,026 | 32 | 5,693 | 9,108 | 44 | 10,936 | 17,499 | |
| 4 | 987 | 1,580 | 10* | 1,251 | 1,998 | 22 | 2,855 | 4,566 | 33 | 6,306 | 10,088 | 45 | 10,936 | 17,499 | |
| 5 | 987 | 1,580 | 12* | 1,290 | 2,065 | 25 | 3,326 | 5,322 | 36 | 7,496 | 11,994 | 46 | 10,936 | 17,499 | |
| 6 | 1,108 | 1,771 | 14 | 1,604 | 2,564 | 26 | 3,456 | 5,529 | 40 | 9,704 | 15,522 | 47 | 10,936 | 17,499 | |
| 7 | 1,251 | 1,998 | 16 | 1,872 | 2,993 | 28 | 4,747 | 7,594 | 45 | 12,364 | 19,785 | 48 | 10,936 | 17,499 | |
| 8 | 1,251 | 1,998 | 18 | 2,271 | 3,634 | 30 | 5,223 | 8,356 | 50 | 14,961 | 23,937 | 49 | 10,936 | 17,499 | |

**HSS PARALLEL SHANK ROUGHING END MILLS -M42
4 FLUTES - COARSE PITCH - TO IS : 6353 -1991 / BS:122**

| SIZE | | PRICE RS. / PIECE | |
|------|-------|-------------------|-------------|
| MM | INCH | STANDARD SERIES | LONG SERIES |
| 6 | 1/4 | 2,748 | 3,735 |
| 8 | 5/16 | 2,748 | 3,735 |
| 10 | 3/8 | 2,748 | 3,735 |
| 12 | 1/2 | 2,748 | 3,735 |
| 14 | - | 4,178 | 5,683 |
| 16 | 5/8 | 4,861 | 6,621 |
| 18 | - | 5,925 | 7,390 |
| 20 | 3/4 | 6,614 | 9,004 |
| 22 | 7/8 | 7,094 | 9,662 |
| 25 | 1 | 8,363 | 11,402 |
| 28 | 1.1/8 | 11,278 | 15,365 |
| 30 | - | 13,541 | 18,454 |

HSS REAMERS



REFERENCE STANDARDS

HSS HAND REAMERS WITH PARALLEL SHANK
HSS MACHINE REAMERS WITH TAPER SHANK
HSS CHUCKING REAMERS WITH PARALLEL SHANK
HSS CHUCKING REAMERS WITH TAPER SHANK

MM SIZE INCH SIZES
IS : 5444 - 1978 BS 328 PART-4
IS : 5445 - 1978 1983
IS : 5446 - 1978
IS : 5447 - 1978

| SIZE | | PRICE Rs. /PIECE |
|----------|-------|--|
| DIAMETER | | HAND REAMER LONG FLUTED MACHINE REAMER CHUCKING REAMER |
| MM | INCH | |
| 4.00 | - | 1,314 |
| (4.76) | 3/16 | 1,314 |
| 4.50 | - | 1,314 |
| 5.00 | - | 1,314 |
| (5.56) | 7/32 | 1,314 |
| 6.00 | - | 1,530 |
| (6.35) | 1/4 | 1,530 |
| 7.00 | - | 1,530 |
| (7.14) | 9/32 | 1,530 |
| (7.94) | 5/16 | 1,743 |
| 8.00 | - | 1,743 |
| (8.73) | 11/32 | 1,830 |
| 9.00 | - | 1,830 |
| (9.52) | 3/8 | 1,989 |
| 10.00 | - | 2,205 |
| (10.32) | 13/32 | 2,205 |
| 11.00 | - | 2,470 |
| (11.11) | 7/16 | 2,470 |
| (11.91) | 15/32 | 2,575 |
| 12.00 | - | 2,575 |
| (12.70) | 1/2 | 2,662 |
| 13.00 | - | 3,247 |
| (13.49) | 17/32 | 3,247 |
| 14.00 | - | 3,247 |
| (14.29) | 9/16 | 3,247 |
| 15.00 | - | 3,266 |
| (15.08) | 19/32 | 3,266 |
| (15.87) | 5/8 | 3,266 |
| 16.00 | - | 3,266 |
| (16.67) | 21/32 | 3,771 |
| 17.00 | - | 3,771 |
| (17.46) | 11/16 | 3,771 |
| 18.00 | - | 4,035 |
| (18.26) | 23/32 | 4,282 |
| 19.00 | - | 4,282 |
| (19.05) | 3/4 | 4,282 |
| 20.00 | - | 4,787 |
| (20.64) | 13/16 | 4,880 |
| 21.00 | - | 5,404 |
| 22.00 | - | 5,404 |
| (22.22) | 7/8 | 5,404 |
| 23.00 | - | 6,322 |
| (23.81) | 15/16 | 7,000 |

| SIZE | | PRICE Rs. /PIECE |
|----------|---------|--|
| DIAMETER | | HAND REAMER LONG FLUTED MACHINE REAMER CHUCKING REAMER |
| MM | INCH | |
| 24.00 | - | 7,000 |
| 25.00 | - | 7,020 |
| (25.40) | 1 | 7,152 |
| 26.00 | - | 8,668 |
| (26.99) | 1.1/16 | 9,927 |
| 27.00 | - | 9,927 |
| 28.00 | - | 9,927 |
| (28.57) | 1.1/8 | 9,927 |
| 29.00 | - | 10,525 |
| 30.00 | - | 11,353 |
| (30.16) | 1.3/16 | 11,353 |
| 31.00 | - | 12,535 |
| (31.75) | 1.1/4 | 12,535 |
| 32.00 | - | 12,535 |
| 33.00 | - | 14,244 |
| (33.34) | 1.5/16 | 14,244 |
| 34.00 | - | 15,989 |
| (34.92) | 1.3/8 | 17,491 |
| 35.00 | - | 17,491 |
| 36.00 | - | 17,491 |
| (36.51) | 1.7/16 | 17,637 |
| 37.00 | - | 19,211 |
| 38.00 | - | 19,211 |
| (38.10) | 1.1/2 | 19,211 |
| 39.00 | - | 21,242 |
| (39.69) | 1.9/16 | 23,193 |
| 40.00 | - | 23,193 |
| 41.00 | - | 23,417 |
| (41.27) | 1.5/8 | 23,417 |
| 42.00 | - | 27,579 |
| (42.86) | 1.11/16 | 27,579 |
| 43.00 | - | 27,579 |
| 44.00 | - | 27,579 |
| (44.45) | 1.3/4 | 27,579 |
| 45.00 | - | 32,311 |
| 46.00 | - | 32,311 |
| 47.00 | - | 34,901 |
| (47.62) | 1.7/8 | 37,484 |
| 48.00 | - | 37,484 |
| 49.00 | - | 37,484 |
| (49.21) | 1.15/16 | 37,484 |
| 50.00 | - | 37,484 |
| (50.80) | 2 | 37,484 |

HSS TAPER PIN REAMERS (TAPER 1 IN 50)

HAND - IS : 5881 -1984

MACHINE - IS : 5918 - 1984

| DIA | PRICE Rs. /PIECE | |
|-----|------------------|---------|
| MM | HAND | MACHINE |
| 6 | 2,845 | 2,845 |
| 8 | 3,851 | 3,851 |
| 10 | 4,258 | 4,258 |
| 12 | 5,152 | 5,152 |
| 14 | 5,799 | 5,799 |

| DIA | PRICE Rs. /PIECE | |
|-----|------------------|---------|
| MM | HAND | MACHINE |
| 16 | 6,456 | 6,456 |
| 20 | 10,042 | 10,042 |
| 25 | 10,641 | 10,641 |
| 30 | 14,334 | 14,334 |
| 32 | 15,723 | 15,723 |

| DIA | PRICE Rs. /PIECE | |
|-----|------------------|---------|
| MM | HAND | MACHINE |
| 40 | 28,147 | 28,147 |
| 50 | 48,783 | 48,783 |
| - | - | - |
| - | - | - |
| - | - | - |

HSS TAPER PIN REAMERS (TAPER 1 IN 48)

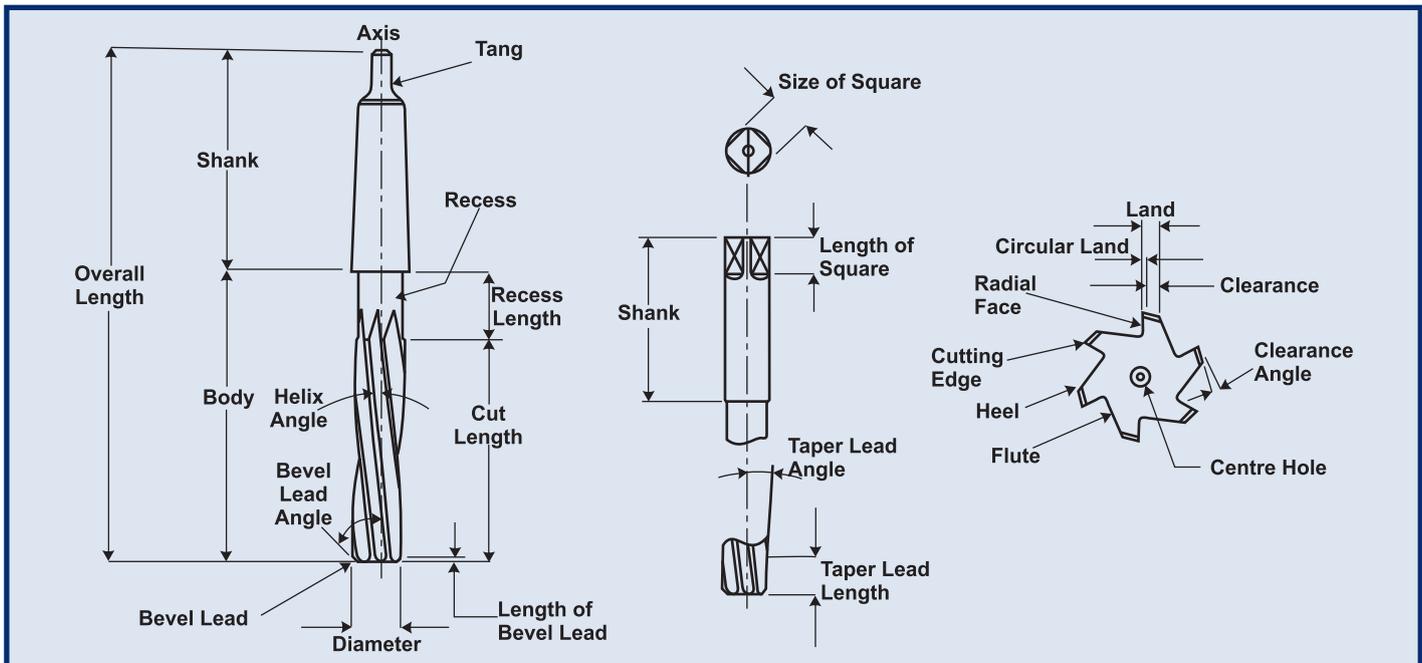
HAND/MACHINE - BS 328 (PART 4) 1983

| DIA | PRICE Rs. /PIECE | |
|-------|------------------|---------|
| MM | HAND | MACHINE |
| 1/4 | 2,647 | 2,647 |
| 9/32 | 2,894 | 2,894 |
| 5/16 | 3,216 | 3,216 |
| 11/32 | 3,621 | 3,621 |

| DIA | PRICE Rs. /PIECE | |
|-------|------------------|---------|
| MM | HAND | MACHINE |
| 3/8 | 3,696 | 3,696 |
| 13/32 | 4,137 | 4,137 |
| 7/16 | 4,258 | 4,258 |
| 1/2 | 4,832 | 4,832 |

| DIA | PRICE Rs. /PIECE | |
|------|------------------|---------|
| MM | HAND | MACHINE |
| 9/16 | 5,574 | 5,574 |
| 5/8 | 6,212 | 6,212 |
| 3/4 | 7,690 | 7,822 |
| 7/8 | 9,662 | 9,662 |

Reamer Terms - General Features



**HIGH SPEED STEEL
TAPER SHANK CORE DRILLS**



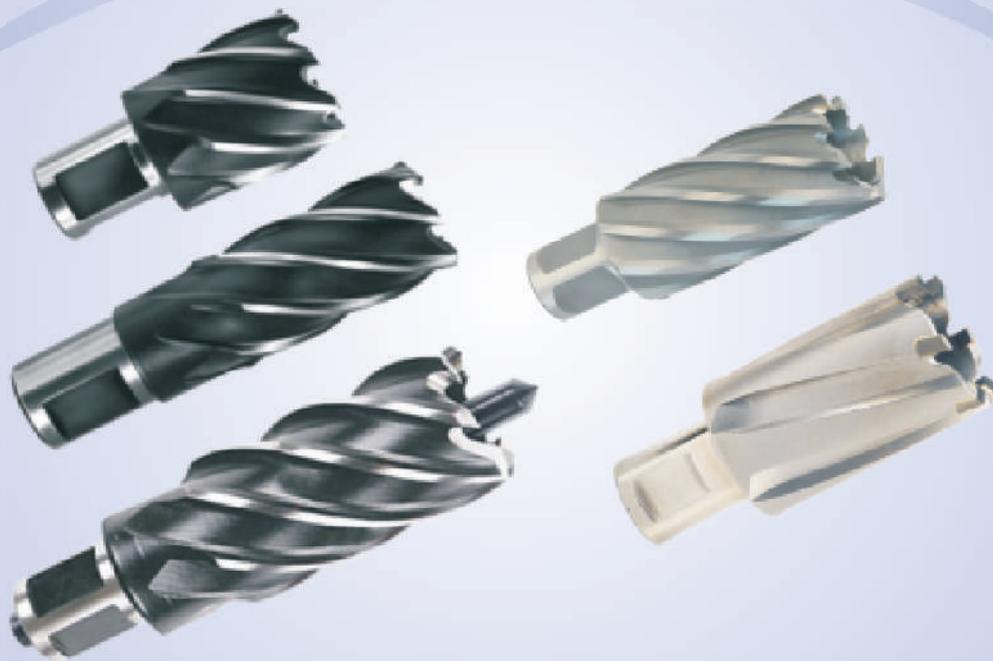
Specifications conform to : IS 5366 - 1978, ISO 7079 - 1981
DIN 343 - 1981, BS 328 - 1959
Dimensions in mm / Inch

| Size | | Price Rs. Piece |
|-------|--------|--------------------|
| mm | inch | |
| 14.00 | | 2,719 |
| 14.29 | 9/16 | 2,798 |
| 15.00 | | 2,919 |
| 15.08 | 19/32 | 2,919 |
| 15.87 | 5/8 | 2,948 |
| 16.00 | | 2,948 |
| 16.67 | 21/32 | 3,145 |
| 17.00 | | 3,145 |
| 17.46 | 11/16 | 3,397 |
| 18.00 | | 3,652 |
| 18.26 | 23/32 | 3,652 |
| 19.00 | | 4,175 |
| 19.05 | 3/4 | 4,175 |
| 19.84 | 25/32 | 4,191 |
| 20.00 | | 4,191 |
| 20.64 | 13/16 | 4,484 |
| 21.00 | | 4,484 |
| 21.43 | 27/32 | 4,739 |
| 22.00 | | 4,739 |
| 22.22 | 7/8 | 5,028 |
| 23.00 | | 5,323 |
| 23.02 | 29/32 | 5,323 |
| 23.81 | 15/16 | 5,811 |
| 24.00 | | 6,072 |
| 24.61 | 31/32 | 6,072 |
| 25.00 | | 7,056 |
| 25.40 | 1 | 7,056 |
| 26.00 | | 7,613 |
| 26.19 | 1.1/32 | 7,613 |
| 26.99 | 1.1/16 | 8,404 |
| 27.00 | | 8,404 |
| 27.78 | 1.3/32 | 8,723 |
| 28.00 | | 9,241 |
| 28.57 | 1.1/8 | 9,243 |
| 29.00 | 1.5/32 | 9,663 |
| 29.37 | | 9,663 |
| 30.00 | 1.3/16 | 10,276 |
| 30.16 | 1.7/32 | 10,276 |
| 30.96 | | 10,665 |
| 31.00 | | 11,992 |

| Size | | Price Rs. Piece |
|-------|---------|--------------------|
| mm | inch | |
| 31.75 | 1.1/4 | 12,516 |
| 32.00 | | 13,716 |
| 32.54 | 1.9/32 | 13,716 |
| 33.00 | | 14,000 |
| 33.34 | 1.5/16 | 14,000 |
| 34.00 | | 15,268 |
| 34.13 | 1.11/32 | 15,268 |
| 34.92 | 1.3/8 | 16,222 |
| 35.00 | | 16,222 |
| 35.72 | 1.13/32 | 17,447 |
| 36.00 | | 17,447 |
| 36.51 | 1.7/16 | 18,406 |
| 37.00 | | 18,406 |
| 37.31 | 1.15/32 | 18,928 |
| 38.00 | | 20,248 |
| 38.10 | 1.1/2 | 20,248 |
| 39.00 | | 22,206 |
| 39.69 | 1.9/16 | 22,206 |
| 40.00 | | 22,206 |
| 41.00 | | 24,474 |
| 41.27 | 1.5/8 | 24,474 |
| 42.00 | | 25,201 |
| 42.07 | 1.21/32 | 25,201 |
| 42.86 | 1.11/16 | 26,009 |
| 43.00 | | 26,009 |
| 44.00 | | 27,493 |
| 44.45 | 1.3/4 | 27,493 |
| 45.00 | | 28,464 |
| 45.24 | 1.25/32 | 28,464 |
| 46.00 | | 29,519 |
| 46.04 | 1.13/16 | 29,519 |
| 47.00 | | 30,673 |
| 47.62 | 1.7/8 | 32,256 |
| 48.00 | | 32,256 |
| 49.00 | | 34,443 |
| 49.21 | 1.15/16 | 34,443 |
| 50.00 | | 37,064 |
| 50.80 | 2 | 40,981 |
| 51.00 | | 41,337 |
| 52.00 | | 45,525 |

| Size | | Price Rs. Piece |
|-------|---------|--------------------|
| mm | inch | |
| 52.39 | 2.1/16 | 45,525 |
| 53.00 | | 53,179 |
| 53.97 | 2.1/8 | 53,179 |
| 54.00 | | 53,179 |
| 55.00 | | 55,740 |
| 55.56 | 2.3/16 | 55,740 |
| 56.00 | | 58,101 |
| 57.00 | | 58,101 |
| 57.15 | 2.1/4 | 58,101 |
| 58.00 | | 63,492 |
| 58.74 | 2.5/16 | 63,492 |
| 59.00 | | 64,665 |
| 60.00 | | 64,665 |
| 60.32 | 2.3/8 | 64,665 |
| 61.00 | | 68,916 |
| 61.91 | 2.7/16 | 68,916 |
| 62.00 | | 68,916 |
| 63.00 | | 75,846 |
| 63.50 | 2.1/2 | 75,846 |
| 64.00 | | 82,817 |
| 65.00 | | 82,817 |
| 65.09 | 2.9/16 | 82,817 |
| 66.00 | | 86,831 |
| 66.67 | 2.5/8 | 86,831 |
| 67.00 | | 90,456 |
| 68.00 | | 94,849 |
| 68.26 | 2.11/16 | 94,849 |
| 69.00 | | 99,482 |
| 69.85 | 2.3/4 | 1,01,347 |
| 70.00 | | 1,01,347 |
| 71.00 | | 1,03,355 |
| 71.44 | 2.13/16 | 1,03,355 |
| 72.00 | | 1,08,078 |
| 73.00 | | 1,12,085 |
| 73.02 | 2.7/8 | 1,12,085 |
| 74.00 | | 1,16,323 |
| 74.61 | 2.15/16 | 1,16,323 |
| 75.00 | | 1,20,611 |
| 76.00 | | 1,26,402 |
| 76.20 | 3 | 1,26,402 |

Annular Cutters (HSS & TCT)



SIZE RANGE :

- Size : 11.0 mm To 60.0 mm
- Depth of Cut : 50.00 mm
- Special size / shank on request
- Coating on request

FEATURE :

- | | | |
|-------------------------------|------|--|
| Reduced Torque and thrust | ———— | Due to peripheral cutting |
| Minimizes kerf area | ———— | Unique center free design |
| Reducing HP and feed pressure | ———— | Alternating tooth geometry |
| Faster feed, less friction | ———— | Evenly distributes chip load to multiple cutting edges |
| Longer tool life | ———— | Special Heat treatment / surface treatment |
| Single pass-cutting, | ———— | No pre drilling required |
| High accuracy | ———— | Less Drifting- Precise Center locating |
| Smooth hole finish | ———— | Evenly distributes chip load to multiple cutting edges |

ANNULAR CUTTER



| SIZE DIA. MM | HSS M2 - PRICE RS. / PIECE | | HSS M42 | TCT |
|-----------------|----------------------------|--------------|--------------|--------------|
| | LENGTH 25 MM | LENGTH 50 MM | LENGTH 50 MM | LENGTH 50 MM |
| 12-13 | - | - | - | 4,341 |
| 14-15 | - | - | - | 4,341 |
| 16*-17 | 2,134 | 2682 | 3,485 | 4,341 |
| 18-19 | 2,225 | 2784 | 3,620 | 4,341 |
| 20*-21 | 2,339 | 2897 | 3,768 | 4,341 |
| 22*-23 | 2,784 | 3297 | 4,286 | 4,478 |
| 24*-25 | 2,887 | 3491 | 4,539 | 4,478 |
| 26*-27 | 3,058 | 3686 | 4,790 | 5,056 |
| 28-29 | 3,297 | 4015 | 5,220 | 5,056 |
| 30*-31 | 3,457 | 4217 | 5,484 | 5,056 |
| 32*-33 | 3,616 | 4506 | 5,859 | 6,003 |
| 34-35 | 3,810 | 4804 | 6,243 | 6,003 |
| 36-37 | 4,323 | 5442 | 7,074 | 6,828 |
| 38-39 | 4,631 | 5772 | 7,505 | 6,828 |
| 40-41 | 5,077 | 6321 | 8,215 | 6,828 |
| 42-43 | 5,488 | 6834 | 8,883 | 8,338 |
| 44-45 | 6,023 | 7507 | 9,759 | 8,338 |
| 46-47 | 6,480 | 8066 | 10,484 | 8,998 |
| 48-49 | 6,834 | 8521 | 11,079 | 8,998 |
| 50-51 | 7,302 | 9616 | 12,501 | 9,437 |
| 52 | 7,781 | 9880 | 12,844 | 10,109 |
| 53 | 8,020 | 10199 | 13,259 | 10,536 |
| 54 | 8,271 | 10541 | 13,703 | 10,742 |
| 55 | 8,472 | 10826 | 14,074 | 11,004 |
| 56 | 8,772 | 11156 | 14,504 | 11,483 |
| 57 | 9,092 | 11425 | 14,853 | 11,841 |
| 58 | 9,321 | 11739 | 15,260 | 11,991 |
| 59 | 9,606 | 12001 | 15,602 | 12,198 |
| 60 | 9,897 | 12344 | 16,046 | 12,451 |

EJECTOR PIN

| SIZE | TYPE | PRICE RS./ PEICE |
|-----------|-------|------------------|
| 6.34 X 73 | CL 25 | 324 |
| 6.34 X 98 | CL 50 | 437 |

HSS TAPS



PRODUCT RANGE

- Types** : Hand & Machine, Straight Flute, Spiral, Spiral Point, Nib, Ring Taps
Range : 2.0 mm to 140.0 mm
Grade of Steel : M2, M35 & M42
Product Standard : ISO 529, IS 6175, BS 949, DIN, ANSI, JIS
Thread Form : Metric, BSW, BSF, BA, BSP, UNF UNC, NPT...

APPLICATIONS

- Steel
- Stainless Steel
- Forged Steel
- Titanium & Nickel Alloy
- Aluminium

INDUSTRIES

- Automotive & Auto components
- Aerospace
- Heavy Engineering
- Power & Energy
- Railways
- Electronics & Electrical

HSS TAPS

| HSS GROUND THREAD HAND TAPS - COARSE PITCH | | | | | | | | | | IS 6175 - PART 1,2&3 -1992 | | | | |
|---|--------------|---------------------------|--------------|------------------|------------|--------------|------------------|------------|--------|----------------------------|-------------------------|-------|----------------|----------|
| HSS GROUND THREAD MACHINE TAPS - COARSE PITCH | | | | | | | | | | IS 6175 - PART 4 -1991 | | | | |
| HSS GROUND THREAD NUT TAPS - COARSE PITCH | | | | | | | | | | IS 6175 - PART 5 -1992 | | | | |
| Code | Size | Hand & Short Machine Taps | | | | | | | | | Long Shank Machine Taps | | | Nut Taps |
| | | IS 6175 Part 1 | | IS 6175 - Part 2 | | | IS 6175 - Part 3 | | | IS 6175 - Part 4 | | | IS 6175 Part 5 | |
| | | WTC_M | WTCPM | WHC_M | WHCPM | WHCTM | WUC_M | WUCPM | WUCTM | WMC_M | WMCPM | WMCTM | WVCNM | |
| Str. Flute | Spiral Point | Str. Flute | Spiral Point | Spiral Flute | Str. Flute | Spiral Point | Spiral Flute | Type A,C,D | Type B | Spiral | Nut Tap | | | |
| Price Each Rs. | | | | | | | | | | | | | | |
| 010253A | M1.0 x 0.25 | 1,164 | - | - | - | - | - | - | - | - | - | - | - | |
| 110253A | M1.1 x 0.25 | 1,164 | - | - | - | - | - | - | - | - | - | - | - | |
| 120253A | M1.2 x 0.25 | 1,164 | - | - | - | - | - | - | - | - | - | - | - | |
| 140303A | M1.4 x 0.30 | 989 | - | - | - | - | - | - | - | - | - | - | - | |
| 160353A | M1.6 x 0.35 | 989 | - | - | - | - | - | - | - | - | - | - | - | |
| 180353A | M1.8 x 0.35 | 989 | - | - | - | - | - | - | - | - | - | - | - | |
| 020403A | M2.0 x 0.40 | 711 | 830 | - | - | - | - | - | - | - | - | - | - | |
| 220453A | M2.2 x 0.45 | 711 | 830 | - | - | - | - | - | - | - | - | - | - | |
| 230453A | M2.3 x 0.40 | 711 | 830 | - | - | - | - | - | - | - | - | - | - | |
| 250453A | M2.5 x 0.45 | 711 | - | - | - | - | - | - | - | - | - | - | - | |
| 260453A | M2.6 x 0.45 | 711 | 830 | - | - | - | - | - | - | - | - | - | - | |
| 030503A | M3.0 x 0.50 | - | - | 428 | 536 | 584 | - | - | - | 942 | 1,111 | 781 | - | |
| 350603A | M3.5 x 0.60 | - | - | 428 | 536 | 584 | - | - | - | 942 | 1,111 | 781 | - | |
| 040703A | M4.0 x 0.70 | - | - | 428 | 536 | 584 | - | - | - | 942 | 1,111 | 781 | - | |
| 450753A | M4.5 x 0.75 | - | - | 457 | 566 | 613 | - | - | - | 692 | 824 | 830 | - | |
| 050803A | M5.0 x 0.80 | - | - | 457 | 566 | 613 | - | - | - | 673 | 824 | 830 | - | |
| 061003A | M6.0 x 1.00 | - | - | 457 | 566 | 624 | - | - | - | 721 | 879 | 907 | 942 | |
| 081253A | M8.0 x 1.25 | - | - | 550 | 655 | 691 | - | - | - | 785 | 958 | - | 1066 | |
| 101503A | M10 x 1.50 | - | - | 662 | 818 | 869 | - | - | - | 1,006 | 1,204 | - | 1416 | |
| 121753A | M12 x 1.75 | - | - | - | - | - | 1,039 | 1,254 | 1,382 | 1,428 | 1,691 | - | 2176 | |
| 142003A | M14 x 2.00 | - | - | - | - | - | 1,516 | 1,833 | 2,099 | 2,076 | 2,457 | - | 3013 | |
| 162003A | M16 x 2.00 | - | - | - | - | - | 1,516 | 1,833 | 2,099 | 2,076 | 2,457 | 2,699 | 3013 | |
| 182503A | M18 x 2.50 | - | - | - | - | - | 2,293 | 2,751 | 3,056 | 3,046 | 3,590 | 3,871 | 4603 | |
| 202503A | M20 x 2.50 | - | - | - | - | - | 2,929 | 3,509 | 4,076 | 3,751 | 4,412 | 4,612 | 6160 | |
| 222503A | M22 x 2.50 | - | - | - | - | - | 3,137 | 3,761 | 4,224 | 4,194 | 4,944 | - | 6240 | |
| 243003A | M24 x 3.00 | - | - | - | - | - | 3,493 | 4,198 | 4,589 | 4,547 | 5,364 | 5,826 | 7083 | |
| 253003A | M25 x 3.00 | - | - | - | - | - | 4,267 | 5,554 | - | 5,703 | - | - | 8472 | |
| 273003A | M27 x 3.00 | - | - | - | - | - | 5,298 | 6,356 | 6,849 | 6,548 | - | - | 10879 | |
| 303503A | M30 x 3.50 | - | - | - | - | - | 5,925 | 7,116 | 7,655 | 7,526 | - | - | 13709 | |
| 333503A | M33 x 3.50 | - | - | - | - | - | 7,221 | 9,349 | 10,314 | 8,837 | - | - | 15119 | |
| 364003A | M36 x 4.00 | - | - | - | - | - | 10,050 | 12,060 | 13,002 | 12,515 | - | - | 19576 | |
| 394003A | M39 x 4.00 | - | - | - | - | - | 11,810 | 14,155 | - | 13,906 | - | - | 23325 | |
| 424503A | M42 x 4.50 | - | - | - | - | - | 13,758 | 16,503 | - | 17,938 | - | - | 27784 | |
| 454503A | M45 x 4.50 | - | - | - | - | - | 18,529 | 22,234 | - | 21,277 | - | - | 33510 | |
| 485003A | M48 x 5.00 | - | - | - | - | - | 19,761 | 23,712 | - | 23,956 | - | - | 38985 | |
| 525003A | M52 x 5.00 | - | - | - | - | - | 24,806 | 29,761 | - | 27,722 | - | - | - | |
| 565503A | M56 x 5.50 | - | - | - | - | - | 35,302 | 42,356 | - | 38,816 | - | - | - | |
| 605503A | M60 x 5.50 | - | - | - | - | - | 37,208 | 44,643 | - | 42,097 | - | - | - | |
| 646003A | M64 x 6.00 | - | - | - | - | - | 39,137 | 46,967 | - | 47,513 | - | - | - | |
| 686003A | M68 x 6.00 | - | - | - | - | - | - | 58,585 | - | 66,200 | - | - | - | |
| 726003A | M72 x 6.00 | - | - | - | - | - | 65,529 | - | - | - | - | - | - | |
| 766003A | M76 x 6.00 | - | - | - | - | - | 80,142 | - | - | - | - | - | - | |
| 806003A | M80 x 6.00 | - | - | - | - | - | 96,804 | - | - | - | - | - | - | |
| 856003A | M85 x 6.00 | - | - | - | - | - | 1,19,551 | - | - | - | - | - | - | |
| 906003A | M90 x 6.00 | - | - | - | - | - | 1,49,210 | - | - | - | - | - | - | |
| 956003A | M95 x 6.00 | - | - | - | - | - | 1,87,863 | - | - | - | - | - | - | |
| 100603A | M100 x 6.00 | - | - | - | - | - | 2,32,141 | - | - | - | - | - | - | |

- The tap sizes up to M6 will be supplied with male centers on both sides Above M6 taps will be supplied with female centers on both sides.
- Please contact local sales team for prices of serial Taps, M35 & M42 Taps, Left Hand Taps

HSS TAPS

| HSS GROUND THREAD HAND TAPS - FINE PITCH | | | | | | | | | | | IS 6175 - PART 1,2&3 -1992 |
|---|-------------|----------------|------------------|--------------|--------------|------------------|--------------|--------------|-------------------------|--------|----------------------------|
| HSS GROUND THREAD MACHINE TAPS - FINE PITCH | | | | | | | | | | | IS 6175 - PART 4 -1991 |
| HSS GROUND THREAD NUT TAPS - FINE PITCH | | | | | | | | | | | IS 6175 - PART 5 -1992 |
| Hand & Short Machine Taps | | | | | | | | | Long Shank Machine Taps | | Nut Taps |
| Code | Size | IS 6175 Part 1 | IS 6175 - Part 2 | | | IS 6175 - Part 3 | | | IS 6175 - Part 4 | | IS 6175 Part 5 |
| | | WTF_M | WHF_M | WHFPM | WHFTM | WUF_M | WUFPM | WUFTM | WMF_M | WMF_M | WVFNM |
| | | Str. Flute | Str. Flute | Spiral Point | Spiral Flute | Str. Flute | Spiral Point | Spiral Flute | Type A,C,D | Type B | Nut Tap |
| Price Each Rs. | | | | | | | | | | | |
| 010023A | M1.0 x 0.20 | 1222 | - | - | - | - | - | - | - | - | - |
| 110203A | M1.1 x 0.20 | 1222 | - | - | - | - | - | - | - | - | - |
| 140203A | M1.4 x 0.20 | 1110 | - | - | - | - | - | - | - | - | - |
| 160203A | M1.6 x 0.20 | 1110 | - | - | - | - | - | - | - | - | - |
| 180203A | M1.8 x 0.20 | 1110 | - | - | - | - | - | - | - | - | - |
| 020253A | M2.0 x 0.25 | 939 | - | - | - | - | - | - | - | - | - |
| 222503A | M2.2 x 0.25 | 939 | - | - | - | - | - | - | - | - | - |
| 250303A | M2.5 x 0.30 | 939 | - | - | - | - | - | - | - | - | - |
| 260303A | M2.6 x 0.30 | 939 | - | - | - | - | - | - | - | - | - |
| 030353A | M3.0 x 0.35 | | 615 | 765 | 828 | 638 | 730 | 815 | 813 | 1,034 | - |
| 350353A | M3.5 x 0.35 | | 615 | 765 | 828 | 638 | 730 | 815 | 866 | 963 | - |
| 040503A | M4.0 x 0.50 | | 638 | 765 | 775 | 638 | 730 | 815 | 813 | 924 | - |
| 0450503A | M4.5 x 0.50 | | 595 | 736 | 799 | 647 | 749 | 815 | 1,284 | 1,436 | - |
| 050503A | M5.0 x 0.50 | | 625 | 745 | 828 | 651 | 749 | 815 | 822 | 963 | - |
| 060753A | M6.0 x 0.75 | | 625 | 745 | 792 | 651 | 786 | 815 | 822 | 963 | 1,110 |
| 070753A | M7.0 x 0.75 | | 719 | - | 965 | 743 | 896 | 928 | 942 | 1,110 | 1,362 |
| 080753A | M8.0 x 0.75 | | 719 | - | 965 | 743 | 896 | 928 | 942 | 1,110 | 1,240 |
| 081003A | M8.0 x 1.00 | | 651 | 781 | 842 | 719 | 811 | 928 | 869 | 1,030 | 1,240 |
| 091003A | M9.0 x 1.00 | | 806 | 1,027 | 1001 | 799 | 922 | 1,048 | 1,116 | 1,315 | 1,240 |
| 101003A | M10 x 1.00 | | 732 | 898 | | | 922 | 1,048 | 1,086 | 1,211 | 1,627 |
| 101253A | M10 x 1.25 | | 732 | 898 | | 799 | 922 | 1,048 | 1,086 | 1,225 | 1,627 |
| 121003A | M12 x 1.00 | | | | | 1,222 | 1,383 | 1,631 | 1,565 | 1,840 | 2,547 |
| 121253A | M12 x 1.25 | | | | | 1,222 | 1,383 | 1,564 | 1,565 | 1,840 | 2,547 |
| 121503A | M12 x 1.50 | | | | | 1,222 | 1,383 | | 1,565 | 1,840 | 2,547 |
| 141003A | M14 x 1.00 | | | | | 1,571 | 1,883 | 2,239 | 2,019 | 2,391 | 3,799 |
| 141253A | M14 x 1.25 | | | | | 1,604 | 1,934 | 2,192 | 2,060 | 2,432 | 3,799 |
| 141503A | M14 x 1.50 | | | | | 1,522 | 1,869 | 2,089 | 1,936 | 2,287 | 3,799 |
| 161003A | M16 x 1.00 | | | | | 1,568 | 1,931 | 2,192 | 2,175 | 2,570 | 3,799 |
| 161503A | M16 x 1.50 | | | | | 1,523 | 1,869 | 2,089 | 1,936 | 2,457 | 3,799 |
| 181003A | M18 x 1.00 | | | | | 2,863 | 3,199 | 3,409 | 3,553 | 4,191 | 5,377 |
| 181503A | M18 x 1.50 | | | | | 2,612 | 2,921 | 3,409 | 3,259 | 4,146 | 5,377 |
| 182003A | M18 x 2.00 | | | | | 2,863 | 3,199 | 3,409 | 3,553 | 4,191 | 5,377 |
| 201503A | M20 x 1.50 | | | | | 3,304 | 3,688 | | 4,254 | 5,024 | 6,899 |
| 202003A | M20 x 2.00 | | | | | 3,289 | 4,254 | 4,352 | 4,686 | 5,946 | 6,899 |
| 221503A | M22 x 1.50 | | | | | | 4,021 | 4,676 | 4,414 | 5,214 | 7,325 |
| 222003A | M22 x 2.00 | | | | | 3,877 | 4,665 | 4,676 | 4,758 | 6,030 | 7,325 |
| 241503A | M24 x 1.50 | | | | | 3,944 | 4,400 | 5,176 | 4,927 | 5,815 | 8,705 |
| 242003A | M24 x 2.00 | | | | | 3,937 | 5,070 | 5,176 | 5,192 | 6,587 | 8,705 |
| 251503A | M25 x 1.50 | | | | | 4,221 | 5,394 | - | 6,282 | 7,442 | 9,787 |
| 252003A | M25 x 2.00 | | | | | 4,179 | 5,394 | - | 6,282 | 7,442 | - |
| 261503A | M26 x 1.50 | | | | | 4,400 | 5,513 | - | 6,458 | 7,622 | - |
| 262003A | M26 x 2.00 | | | | | 4,400 | 5,513 | - | 6,458 | 7,622 | - |
| 271503A | M27 x 1.50 | | | | | 5,878 | 7,092 | - | 7,744 | 9,418 | - |
| 272003A | M27 x 2.00 | | | | | 5,878 | 7,092 | - | 7,744 | 9,418 | - |
| 281503A | M28 x 1.50 | | | | | 5,898 | 7,376 | - | 8,346 | 11,463 | - |
| 282003A | M28 x 2.00 | | | | | 5,898 | 7,376 | - | 8,346 | 11,463 | - |
| 301503A | M30 x 1.50 | | | | | 6,617 | 7,954 | - | 8,708 | 11,292 | - |
| 302003A | M30 x 2.00 | | | | | 6,617 | 7,963 | - | 8,708 | 11,292 | - |
| 303003A | M30 x 3.00 | | | | | 6,630 | 7,963 | - | 8,708 | 11,292 | - |
| 321503A | M32 x 1.50 | | | | | 7,048 | 8,729 | - | 9,617 | 12,442 | - |
| 322003A | M32 x 2.00 | | | | | 7,048 | 8,729 | - | 9,617 | 12,442 | - |

HSS TAPS

| Hand & Short Machine Taps | | | | | | Long Shank Machine Taps | | | Nut Taps | | |
|---------------------------|------------|----------------|------------------|--------------|------------------|-------------------------|--------------|------------------|------------|----------------|---------|
| Code | Size | IS 6175 Part 1 | IS 6175 - Part 2 | | IS 6175 - Part 3 | | | IS 6175 - Part 4 | | IS 6175 Part 5 | |
| | | WTF_M | WHF_M | WHFPM | WHFTM | WUF_M | WUFPM | WUFTM | WMF_M | WMF_M | WVFNM |
| | | Str. Flute | Str. Flute | Spiral Point | Spiral Flute | Str. Flute | Spiral Point | Spiral Flute | Type A,C,D | Type B | Nut Tap |
| Price Each Rs. | | | | | | | | | | | |
| 331503A | M33 x 1.50 | - | - | - | - | 8,088 | 10,116 | - | 10,529 | 13,128 | - |
| 332003A | M33 x 2.00 | - | - | - | - | 8,088 | 10,116 | - | 10,529 | 13,128 | - |
| 333003A | M33 x 3.00 | - | - | - | - | 8,088 | 10,116 | - | 10,529 | 13,128 | - |
| 351503A | M35 x 1.50 | - | - | - | - | 11,239 | 13,991 | - | 14,501 | 18,271 | - |
| 361503A | M36 x 1.50 | - | - | - | - | 11,235 | 13,991 | - | 14,501 | 18,271 | - |
| 362003A | M36 x 2.00 | - | - | - | - | 11,235 | 13,991 | - | 14,501 | 18,271 | - |
| 363003A | M36 x 3.00 | - | - | - | - | 11,220 | 13,991 | - | 14,501 | 18,271 | - |
| 391503A | M39 x 1.50 | - | - | - | - | 14,000 | - | - | - | - | - |
| 392003A | M39 x 2.00 | - | - | - | - | 14,000 | - | - | - | - | - |
| 393003A | M39 x 3.00 | - | - | - | - | 14,000 | - | - | - | - | - |
| 421503A | M42 x 1.50 | - | - | - | - | 15,561 | - | - | - | - | - |
| 422003A | M42 x 2.00 | - | - | - | - | 15,561 | - | - | - | - | - |
| 423003A | M42 x 3.00 | - | - | - | - | 15,561 | - | - | - | - | - |
| 424003A | M42 x 4.00 | - | - | - | - | 15,561 | - | - | - | - | - |
| 451503A | M45 x 1.50 | - | - | - | - | 21,571 | - | - | - | - | - |
| 452003A | M45 x 2.00 | - | - | - | - | 21,571 | - | - | - | - | - |
| 453003A | M45 x 3.00 | - | - | - | - | 21,571 | - | - | - | - | - |
| 454003A | M45 x 4.00 | - | - | - | - | 21,571 | - | - | - | - | - |
| 481503A | M48 x 1.50 | - | - | - | - | 20,957 | - | - | - | - | - |
| 482003A | M48 x 2.00 | - | - | - | - | 20,957 | - | - | - | - | - |
| 483003A | M48 x 3.00 | - | - | - | - | 20,957 | - | - | - | - | - |
| 484003A | M48 x 4.00 | - | - | - | - | 20,957 | - | - | - | - | - |
| 501503A | M50 x 1.50 | - | - | - | - | 24,778 | - | - | - | - | - |
| 502003A | M50 x 2.00 | - | - | - | - | 24,778 | - | - | - | - | - |
| 503003A | M50 x 3.00 | - | - | - | - | 24,778 | - | - | - | - | - |
| 521503A | M52 x 1.50 | - | - | - | - | 27,928 | - | - | - | - | - |
| 522003A | M52 x 2.00 | - | - | - | - | 27,928 | - | - | - | - | - |
| 523003A | M52 x 3.00 | - | - | - | - | 27,928 | - | - | - | - | - |
| 524003A | M52 x 4.00 | - | - | - | - | 27,928 | - | - | - | - | - |
| 561503A | M56 x 1.50 | - | - | - | - | 36,439 | - | - | - | - | - |
| 562003A | M56 x 2.00 | - | - | - | - | 36,439 | - | - | - | - | - |
| 563003A | M56 x 3.00 | - | - | - | - | 36,439 | - | - | - | - | - |
| 564003A | M56 x 4.00 | - | - | - | - | 36,439 | - | - | - | - | - |
| 601503A | M60 x 1.50 | - | - | - | - | 40,656 | - | - | - | - | - |
| 602003A | M60 x 2.00 | - | - | - | - | 40,656 | - | - | - | - | - |
| 603003A | M60 x 3.00 | - | - | - | - | 41,574 | - | - | - | - | - |
| 604003A | M60 x 4.00 | - | - | - | - | 41,574 | - | - | - | - | - |
| 641503A | M64 x 1.50 | - | - | - | - | 43,316 | - | - | - | - | - |
| 642003A | M64 x 2.00 | - | - | - | - | 43,316 | - | - | - | - | - |
| 643003A | M64 x 3.00 | - | - | - | - | 44,096 | - | - | - | - | - |
| 644003A | M64 x 4.00 | - | - | - | - | 44,096 | - | - | - | - | - |
| 681503A | M68 x 1.50 | - | - | - | - | 54,849 | - | - | - | - | - |
| 682003A | M68 x 2.00 | - | - | - | - | 54,849 | - | - | - | - | - |
| 683003A | M68 x 3.00 | - | - | - | - | 40,835 | - | - | - | - | - |
| 684003A | M68 x 4.00 | - | - | - | - | 55,550 | - | - | - | - | - |
| 724003A | M72 x 4.00 | - | - | - | - | 61,156 | - | - | - | - | - |

- The tap sizes up to M6 will be supplied with male centers on both sides Above M6 taps will be supplied with female centers on both sides.
- Please contact local sales team for MOQ for all fine pitch taps and for prices of Serial Taps, M35 & M42 Taps, Left Hand Taps

| HSS HAND TAPS - BSW(WTK_) & BSF (WTL_) | | | BS949 (Part 1) - 1992 | | | |
|--|-----------|--------|------------------------|--------------|--------------|----------|
| Part Code | | Size | Straight Flute | Spiral Point | Spiral flute | Nut taps |
| BSW(WTK_) | BSF(WTL_) | | | | | |
| I018406A* | - | 1/8" | 446 | 536 | 631 | - |
| I316246A* | I316326A | 3/16" | 446 | 560 | 603 | - |
| I014206A* | I014266A | 1/4" | 467 | 560 | 665 | 976 |
| I516186A* | I516226A | 5/16" | 523 | 657 | 698 | 1,064 |
| I038166A* | I038206A | 3/8" | 638 | 786 | 859 | 1,292 |
| I716146A* | I716186A | 7/16" | 822 | 1,018 | 1,137 | 1,742 |
| I012126A* | I012166A | 1/2" | 1,045 | 1,254 | 1,379 | 2,168 |
| I916126A | I916166A | 9/16" | 1,522 | 1,833 | 2,121 | 3,013 |
| I058116A* | I058146A | 5/8" | 1,522 | 1,833 | 2,121 | 3,013 |
| I116116A | I116146A | 11/16" | 2,223 | 2,742 | 2,994 | 3,874 |
| I034106A* | I034126A | 3/4" | 2,311 | 2,782 | 3,078 | 4,612 |
| I078096A | I078116A | 7/8" | 3,194 | 3,826 | 4,224 | 6,236 |
| I100086A* | I100106A | 1" | 4,003 | 4,809 | 5,080 | 8,127 |
| I118076A | I118096A | 1.1/8" | 5,377 | 6,452 | - | 10,944 |
| I114076A* | I114096A | 1.1/4" | 6,483 | 7,780 | - | 16,277 |
| I138066A | I138086A | 1.3/8" | 8,362 | 10,034 | - | 19,526 |
| I112066A | I112086A | 1.1/2" | 10,050 | 12,051 | - | - |

| HSS HAND TAPS - UNC(WTG_) & UNF(WTJ_) | | | BS949 (Part 1) - 1992 | | | |
|---------------------------------------|-----------|--------|------------------------|--------------|--------------|----------|
| Part Code | | Size | Straight Flute | Spiral Point | Spiral flute | Nut taps |
| UNC(WTG_) | UNF(WTJ_) | | | | | |
| - | N000806A | No 0 | 1,045 | - | - | - |
| N001646A | N001726A | No 1 | 1,045 | - | - | - |
| N002566A | N002646A | No 2 | 736 | - | - | - |
| N004406A | N004486A | No 4 | 501 | - | - | - |
| N005406A | N005446A | No 5 | 501 | 604 | 603 | - |
| N006326A | N006406A | No 6 | 501 | 604 | 603 | - |
| N008326A | N008366A | No 8 | 501 | 604 | 603 | - |
| N010246A | N010326A | No 10 | 501 | 604 | 603 | - |
| N012246A | N012286A | No 12 | 618 | 736 | 647 | - |
| I018286A | I018406A | 1/8" | 446 | 536 | 631 | - |
| I316246A | I316326A | 3/16" | 446 | 560 | 603 | - |
| I014206A* | I014286A | 1/4" | 463 | 569 | 665 | 974 |
| I516186A* | I516246A | 5/16" | 524 | 657 | 699 | 1,064 |
| I038166A* | I038246A | 3/8" | 638 | 786 | 859 | 1,292 |
| I716146A | I716206A | 7/16" | 822 | 1,018 | 1,137 | 1,739 |
| I012136A* | I012206A | 1/2" | 1,045 | 1,254 | 1,379 | 2,171 |
| I916126A | I916186A | 9/16" | 1,522 | 1,833 | 2,122 | 3,013 |
| I058116A* | I058186A* | 5/8" | 1,522 | 1,833 | 2,122 | 3,013 |
| I116116A | I116116A | 11/16" | 2,223 | 2,741 | 2,996 | 3,872 |
| I034106A* | I034166A | 3/4" | 2,311 | 2,782 | 3,078 | 4,611 |
| I078096A | I078146A | 7/8" | 3,194 | 3,826 | 4,224 | 6,236 |
| I100086A* | I100126A* | 1" | 4,003 | 4,809 | 5,080 | 8,127 |
| I118076A | I118126A | 1.1/8" | 5,377 | 6,449 | - | 10,944 |
| I114076A | I114126A | 1.1/4" | 6,481 | 7,776 | - | 16,276 |
| I138066A | I138126A | 1.3/8" | 8,362 | 10,035 | - | 19,526 |
| I112066A | I112126A | 1.1/2" | 10,050 | 12,049 | - | - |

- The tap sizes up to M6 will be supplied with male centers an both sides Above M6 taps will be supplied with female centers on both sides.
- Please contact local sales team for MOQ of above Taps & for prices of Serial Taps, M35 & M42 Taps, Left Hand Taps

| HSS HAND TAPS - BSCy (Code : WHQ_) | | | | BS949 (Part II) - 1951 | | |
|------------------------------------|--------|----------------|----------|-------------------------|----------------|--|
| Code | Size | Straight flute | Code | Size | Straight flute | |
| Price Each Rs. | | | | | | |
| N11SWG6A | 14 Swg | 811 | I516306A | 5/16" | 692 | |
| N10SWG6A | 10 Swg | 430 | I716266A | 7/16" | 1,044 | |
| N09SWG6A | 9 Swg | 430 | I012266A | 1/2" | 1,305 | |
| I532326A | 5/32" | 504 | I916206A | 9/16" | 2,070 | |
| I316326A | 3/16" | 504 | I100246A | 1" | 4,104 | |
| I732266A | 7/32" | 540 | O167096A | 1.370" | 8,644 | |
| I014266A | 1/4" | 569 | O137596A | 1.375" | 8,644 | |

- The manufacturing range of BSCy taps is 14 Swg upwards.

| HSS HAND TAPS - BA (Code : WTM_) | | | | BS949 (Part 1) - 1992 | | | |
|----------------------------------|-------|----------------|--------------|------------------------|--------|----------------|--------------|
| Code | Size | Straight flute | Spiral point | Code | Size | Straight flute | Spiral point |
| Price Each Rs. | | | | | | | |
| N0BA106A | No. 0 | 551 | 660 | N8BA436A | No. 8 | 902 | 869 |
| N1BA906A | No. 1 | 551 | 660 | 10BA356A | No. 10 | 1,077 | 1,252 |
| N2BA816A | No. 2 | 487 | 596 | 11BA316A | No. 11 | 1,670 | 2,006 |
| N3BA736A | No. 3 | 487 | 596 | 12BA286A | No. 12 | 1,670 | 2,006 |
| N4BA666A | No. 4 | 487 | 596 | 13BA256A | No. 13 | 1,752 | - |
| N5BA596A | No. 5 | 487 | 596 | 14BA236A | No. 14 | 1,752 | - |
| N6BA536A | No. 6 | 536 | 596 | - | - | - | - |

- All the tap sizes will be supplied with male centers on both sides.

| HSS PIPE TAPS | | | | BS949 (Part II) - 1969 | | | |
|-----------------|--------|--------|--------|-------------------------|----------|----------|--------|
| Parallel Thread | | | | Taper Thread | | | |
| Code | Size | WHP_ | NPS | WHU_ | WHR_ | WHS_ | WHT_ |
| | | BSP | | NPSF | BSPT | NPT | NPTF |
| Price Each Rs. | | | | | | | |
| I018286A | 1/8" | 689 | 813 | 979 | 1,005 | 1,030 | 1,080 |
| I014196A | 1/4" | 1,073 | 1,410 | 1,720 | 1,752 | 1,802 | 2,031 |
| I038196A | 3/8" | 1,613 | 1,808 | 2,182 | 2,251 | 2,289 | 2,648 |
| I012146A | 1/2" | 2,354 | 2,630 | 3,161 | 3,370 | 3,443 | 3,871 |
| I058146A | 5/8" | 2,670 | - | - | - | - | - |
| I034146A | 3/4" | 3,517 | 3,871 | 4,624 | 4,996 | 5,100 | 5,709 |
| I078146A | 7/8" | 4,465 | - | - | - | - | - |
| I001116A | 1" | 5,547 | 6,537 | 7,822 | 7,768 | 7,964 | 8,895 |
| I114116A | 1.1/4" | 8,555 | 10,105 | 12,125 | 11,118 | 11,372 | 13,111 |
| I112116A | 1.1/2" | 10,695 | 12,603 | 15,116 | 13,600 | 14,109 | - |
| I134116A | 1.3/4" | 13,376 | 15,719 | 18,855 | - | - | - |
| I200116A | 2" | 19,520 | 22,525 | 27,029 | 24,903 | 25,500 | - |
| I214116A | 2.1/4" | 33,298 | - | - | - | - | - |
| I212116A | 2.1/2" | 47,509 | - | - | 72,623 | 72,623 | - |
| I234116A | 2.3/4" | 53,413 | - | - | - | - | - |
| I300116A | 3" | 60,201 | - | - | 94,516 | 94,516 | - |
| I312116A | 3.1/2" | 79,117 | - | - | 1,26,196 | 1,26,196 | - |
| I400116A | 4" | 99,566 | - | - | 1,59,224 | 1,59,224 | - |

- Minimum order value of Rs.20000/- Nett.

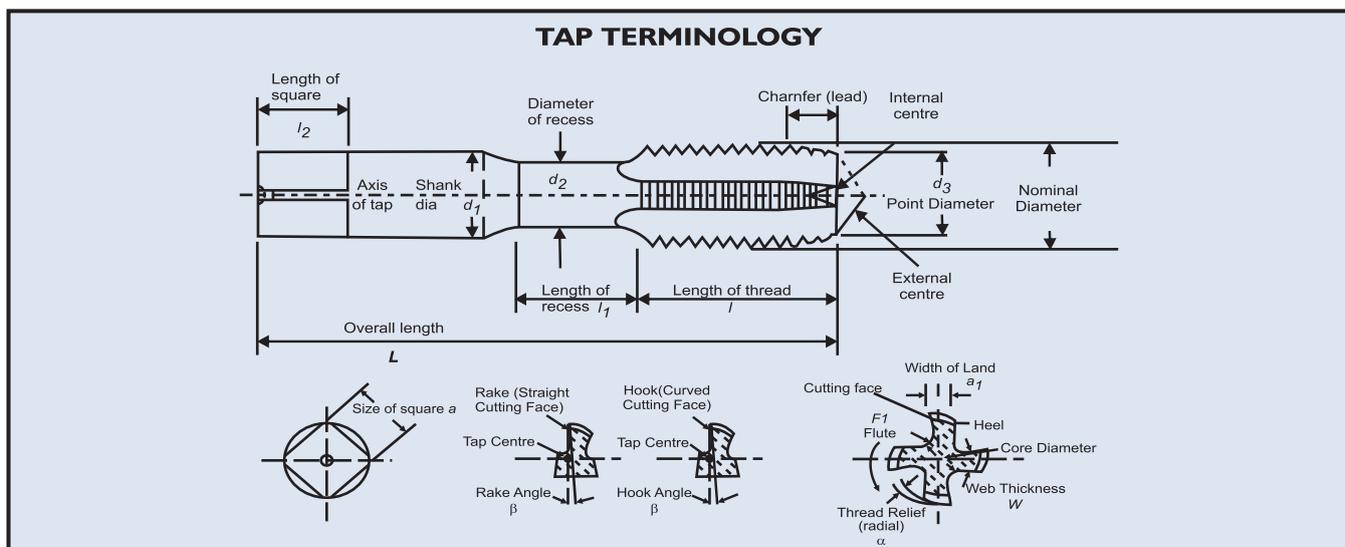
| HSS NIB TAPS TO OUR STANDARD - (Code : XNC_) | | | | | Price Each Rs. | | |
|--|----------|----------------|------|----------|----------------|----------------|-------|
| | Size | Straight flute | | Code | Size | Straight flute | |
| | | M35 | GV 3 | | | M35 | GV3 |
| M030503D | M3 x 0.5 | 775 | 933 | M081253D | M8 x1.25 | 1,008 | 1,226 |
| M040703D | M4 x 0.7 | 791 | 958 | M101503D | M10 x1.5 | 1,276 | 1,508 |
| M050803D | M5 x 0.8 | 839 | 990 | M121753D | M12 x1.75 | 1,499 | 1,718 |
| M061003D | M6 x 1.0 | 932 | 990 | - | - | - | - |

- The above taps will be supplied with TiCN / TiAlN Coating
- The tap sizes upto M6" will be supplied with malecenters on both sides, above M6 taps will be supplied with female centers on both sides
- The tap sizes up to M6 will be supplied with 3 flutes, above M6 will be supplied with 5 flute. Any other style of Nib taps can be offered on specific request.
- **Minimum order value of Rs.20000/- Nett.**
- The manufacturing range of Nib taps is M3 upwards , for the sizes above M12, quotation will be given on Specific request

| UN TAPS (WTV_) | | | | BS949 (Part1) -1992 | |
|-----------------|------------|----------------|-----------|----------------------|----------------|
| Part Code | Size | Price Each Rs. | Part Code | Size | Price Each Rs. |
| I118086A | 1.1/8" X 8 | 5,377 | I134086A | 1.3/4" X 8 | 13,750 |
| I114086A | 1.1/4" X 8 | 6,481 | I178086A | 1.7/8" X 8 | 16,619 |
| I138086A | 1.3/8" X 8 | 8,362 | I200086A | 2" X 8 | 21,672 |
| I112086A | 1.1/2" X 8 | 10,050 | I214086A | 2.1/4" X 8 | 29,854 |
| I158086A | 1.5/8" X 8 | 11,751 | I212086A | 2.1/2" X 8 | 37,946 |

| HSS GROUND THREAD HAND TAPS-COARSE PITCH - HELICOIL (WHR_) | | | | IS 6175 : 1992 | |
|--|-----------|----------------|-----------|----------------|----------------|
| Part Code | Size | Price Each Rs. | Part Code | Size | Price Each Rs. |
| M030503A | M3 X 0.50 | 428 | M142003A | M14 X 2.00 | 2,293 |
| M040704A | M4 X 0.70 | 454 | M162003A | M16 X 2.00 | |
| M050805A | M5 X 0.80 | 545 | M182503A | M18 X 2.50 | 2,929 |
| M061006A | M6 X 1.00 | 545 | M202503A | M20 X 2.50 | 3,137 |
| M081253A | M8 X 1.25 | 662 | M222503A | M22 X 2.50 | 3,493 |
| M101503A | M10X 1.50 | 1,039 | M243003A | M24 X 3.00 | 5,298 |
| M121753A | M12X 1.75 | 1,516 | M273003A | M27 X 3.00 | 5,925 |
| | | - | M303503A | M30 X 3.50 | 6,926 |

- Taps with different coatings can be provided with additional cost at actuals.
- Taps for various application like cast iron, Aluminium, Brass etc. can be supplied on demand.
- Taps of DIN 371, DIN 374, DIN 376, DIN 2184, JIS 4430 1998, ISO 529 1993 can be supplied on demand.



**MIRANDA
EDGE**

**HIGH
PERFORMANCE
PLATINUM
CUT TAPS**



| MIRANDA EDGE - PLATINUM CUT TAPS PRICE - Rs. / Each | | | | | | | | | |
|---|----------|-------|-------|----------|-------|-------|----------|-------|-------|
| Size | SPPT | | | SPIREX | | | BOT | | |
| | UNCOATED | TIN | TIALN | UNCOATED | TIN | TIALN | UNCOATED | TIN | TIALN |
| | MA1 | MA2 | MA3 | MB1 | MB2 | MB3 | MC1 | MC2 | MC3 |
| M3 x 0.5 | 753 | 866 | 905 | 865 | 992 | 1,036 | 627 | 721 | 754 |
| M4 x 0.7 | 753 | 866 | 905 | 865 | 992 | 1,036 | 627 | 721 | 754 |
| M5 x 0.8 | 788 | 907 | 948 | 905 | 1,039 | 1,085 | 660 | 759 | 792 |
| M6 x 1.0 | 788 | 907 | 948 | 905 | 1,039 | 1,085 | 660 | 759 | 792 |
| M8 x 1.0 | - | - | - | 1,124 | 1,292 | 1,348 | - | - | - |
| M8 x 1.25 | 886 | 1,017 | 1,063 | 1,014 | 1,164 | 1,215 | 740 | 849 | 887 |
| M10 x 1.0 | 1,272 | 1,463 | 1,527 | 1,457 | 1,676 | 1,748 | - | - | - |
| M10 x 1.25 | 1,272 | 1,463 | 1,527 | 1,457 | 1,676 | 1,748 | 1,062 | 1,222 | 1,276 |
| M10 x 1.5 | 1,094 | 1,258 | 1,314 | 1,254 | 1,443 | 1,506 | 914 | 1,052 | 1,098 |
| M12 x 1.0 | 1,969 | 2,262 | 2,363 | 2,253 | 2,593 | 2,704 | - | - | - |
| M12 x 1.25 | 1,969 | 2,262 | 2,363 | 2,253 | 2,593 | 2,704 | 1,639 | 1,883 | 1,966 |
| M12 x 1.50 | 1,969 | 2,262 | 2,363 | 2,253 | 2,593 | 2,704 | 1,639 | 1,883 | 1,966 |
| M12 x 1.75 | 1,689 | 1,941 | 2,025 | 1,933 | 2,224 | 2,320 | 1,408 | 1,618 | 1,690 |

High Performance Platinum Cut Taps

| Type | picture | Range | Series | Thread form | Blank Standard | Treatment | Material | Tapping type | Application |
|------------------------------|---|--------|---------|-------------|------------------|-----------|----------|----------------|---|
| Straight Flute |  | M3-M12 | MC 1 | M | IS -6175/ISO 529 | Bright | HSS-E | Blind/ Through | Medium to high tensile steel , Alloy steel , MS , general application |
| | | | MC2 | M | IS -6175/ISO 529 | TiN | | | |
| | | | MC3 | M | IS -6175/ISO 529 | TiAlN | | | |
| Straight Flute for cast Iron |  | M3-M12 | CI MC 1 | M | IS -6175/ISO 529 | Bright | HSS-E | Blind/ Through | cast iron , SG iron , abrasive type steel |
| | | | CI MC 2 | M | IS -6175/ISO 529 | TiN | | | |
| | | | CI MC 3 | M | IS -6175/ISO 529 | TiAlN | | | |
| Spiral Point |  | M3-M12 | MA 1 | M | IS -6175/ISO 529 | Bright | HSS-E | Through holes | Medium to high tensile steel , Alloy steel , MS , general application |
| | | | MA 2 | M | IS -6175/ISO 529 | TiN | | | |
| | | | MA3 | M | IS -6175/ISO 529 | TiAlN | | | |
| Spiral Flute |  | M3-M12 | MB 1 | M | IS -6175/ISO 529 | Bright | HSS-E | Blind Holes | Medium to high tensile steel , Alloy steel , MS , general application |
| | | | MB2 | M | IS -6175/ISO 529 | TiN | | | |
| | | | MB3 | M | IS -6175/ISO 529 | TiAlN | | | |

Recommended Parameter

| Material | RC Value | HB value | Recommended Mtr / min | |
|--|----------|----------|-----------------------|--------|
| | | | HSS-E | |
| | | | Uncoated | Coated |
| Structural steels, free-cutting steels Case hardened steels, heat-treatable steels | <20 | <236 | 9-15 | 12-20 |
| | <25 | <256 | 9-13 | 11-18 |
| | <30 | <286 | 6-9 | 9-16 |
| | <35 | <326 | 5-8 | 6-10 |
| | <38 | <386 | 4-8 | 6-12 |
| Stainless- and acid-resistant steels, sulphured austenitic martensitic | | <186 | 8-13 | 12-16 |
| | <25 | <256 | 6-9 | 9-12 |
| | <36 | <286 | 6-9 | 7-12 |
| Alloyed case hardened steels Alloyed heat-treatable steels Alloyed tool steels High speed tool steels | <35 | <326 | 3-6 | 6-9 |
| | <25 | <256 | 3-6 | 9-12 |
| | <36 | <286 | 8-10 | 9-15 |
| | <38 | <386 | 3-5 | 4-9 |
| Cast iron Spheroidal graphite iron Malleable cast iron | | <186 | 15-20 | 18-25 |
| | <25 | <256 | 9-12 | 14-18 |
| | <35 | <326 | 5-10 | 6-12 |
| Brass | | | 9-13 | - |
| | | | 9-15 | - |

TUNGSTEN CARBIDE TIPPED TOOLS

| ISO 1 (110) BAR TURNING TOOLS | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS. / PIECE |
|---|--------------------------|--------|---------------------|--------|------------------|--------|----------------------|
| | | | ORDER CODE - MIR100 | | | | |
| | | | P30 | K20 | P30 | K20 | |
|  | 1010 | 90 | 1004RC | 1001RC | 1004LC | 1001LC | 416 |
| | 1212 | 100 | 1014RC | 1011RC | 1014LC | 1011LC | 452 |
| | 1616 | 110 | 1034RC | 1031RC | 1034LC | 1031LC | 610 |
| | 2020 | 125 | 1054RC | 1051RC | 1054LC | 1051LC | 973 |
| | 2525 | 140 | 1074RC | 1071RC | 1074LC | 1071LC | 1460 |
| | 3232 | 170 | 1094RC | 1091RC | 1094LC | 1091LC | 2382 |
| | 4040 | 200 | 1114RC | 1111RC | 1114LC | 1111LC | 4907 |
| | 5050 | 240 | 1134RC | 1131RC | 1134LC | 1131LC | 10037 |
| | 1610 | 110 | 1024RC | 1021RC | 1024LC | 1021LC | 487 |
| | 2012 | 125 | 1044RC | 1041RC | 1044LC | 1041LC | 672 |
| | 2516 | 140 | 1064RC | 1061RC | 1064LC | 1061LC | 902 |
| | 3220 | 170 | 1084RC | 1081RC | 1084LC | 1081LC | 1538 |
| | 4025 | 200 | 1104RC | 1101RC | 1104LC | 1101LC | 2473 |
| | 5032 | 240 | 1124RC | 1121RC | 1124LC | 1121LC | 5638 |
| | 6040 | 280 | 1144RC | 1141RC | 1144LC | 1141LC | 10256 |
| ISO 2 (111) CRANKED TURNING & FACING TOOLS | 1010 | 90 | 1204RC | 1201RC | 1204LC | 1201LC | 452 |
| | 1212 | 100 | 1214RC | 1211RC | 1214LC | 1211LC | 497 |
| | 1616 | 110 | 1234RC | 1231RC | 1234LC | 1231LC | 688 |
| | 2020 | 125 | 1254RC | 1251RC | 1254LC | 1251LC | 953 |
| | 2525 | 140 | 1274RC | 1271RC | 1274LC | 1271LC | 1432 |
| | 3232 | 170 | 1294RC | 1291RC | 1294LC | 1291LC | 2465 |
| | 4040 | 200 | 1314RC | 1311RC | 1314LC | 1311LC | 4800 |
| | 5050 | 240 | 1334RC | 1331RC | 1334LC | 1331LC | 10185 |
| | 1610 | 110 | 1224RC | 1221RC | 1224LC | 1221LC | 536 |
| | 2012 | 125 | 1244RC | 1241RC | 1244LC | 1241LC | 725 |
| | 2516 | 140 | 1264RC | 1261RC | 1264LC | 1261LC | 973 |
| | 3220 | 170 | 1284RC | 1281RC | 1284LC | 1281LC | 1548 |
| | 4025 | 200 | 1304RC | 1301RC | 1304LC | 1301LC | 2771 |
| | 5032 | 240 | 1324RC | 1321RC | 1324LC | 1321LC | 5751 |
| | 6040 | 280 | 1344RC | 1341RC | 1344LC | 1341LC | 10441 |
| ISO 3 (123) CRANKED FINISHING TOOLS | 1010 | 90 | 2204RC | 2201RC | 2204LC | 2201LC | 452 |
| | 1212 | 100 | 2214RC | 2211RC | 2214LC | 2211LC | 497 |
| | 1616 | 110 | 2234RC | 2231RC | 2234LC | 2231LC | 688 |
| | 2020 | 125 | 2254RC | 2251RC | 2254LC | 2251LC | 953 |
| | 2525 | 140 | 2274RC | 2271RC | 2274LC | 2271LC | 1432 |
| | 3232 | 170 | 2294RC | 2291RC | 2294LC | 2291LC | 2465 |
| | 4040 | 200 | 2314RC | 2311RC | 2314LC | 2311LC | 4800 |
| | 5050 | 240 | 2334RC | 2331RC | 2334LC | 2331LC | 10185 |
| | 1610 | 110 | 2224RC | 2221RC | 2224LC | 2221LC | 536 |
| | 2012 | 125 | 2244RC | 2241RC | 2244LC | 2241LC | 725 |

| ISO 3 (123) CRANKED FINISHING TOOLS | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS./ PIECE | |
|---|---|--------|---------------------|--------|------------------|--------|---------------------|--------|
| | | | ORDER CODE - MIR100 | | | | | |
| | | | P30 | K20 | P30 | K20 | | |
|  | 2516 | 140 | 2264RC | 2261RC | 2264LC | 2261LC | 974 | |
| | 3220 | 170 | 2284RC | 2281RC | 2284LC | 2281LC | 1,548 | |
| | 4025 | 200 | 2304RC | 2301RC | 2304LC | 2301LC | 2,771 | |
| | 5032 | 240 | 2324RC | 2321RC | 2324LC | 2321LC | 5,751 | |
| | 6040 | 280 | 2344RC | 2341RC | 2344LC | 2341LC | 10,441 | |
| ISO 4 (127) RECESSING TOOLS | NEUTRAL (NH) | | | | | | | |
| |  | 1010 | 90 | 2604SC | 2601SC | | | 452 |
| | | 1212 | 100 | 2614SC | 2611SC | | | 557 |
| | | 1616 | 110 | 2634SC | 2631SC | | | 828 |
| | | 2020 | 125 | 2654SC | 2651SC | | | 1,244 |
| | | 2525 | 140 | 2674SC | 2671SC | | | 2,029 |
| | | 3232 | 170 | 2694SC | 2691SC | | | 4,004 |
| | | 4040 | 200 | 2714SC | 2711SC | | | 9,897 |
| | | 5050 | 240 | 2076SC | 2731SC | | | 17,771 |
| | | 1610 | 110 | 2624SC | 2621SC | | | 610 |
| | | 2012 | 125 | 2644SC | 2641SC | | | 652 |
| | | 2516 | 140 | 2664SC | 2661SC | | | 960 |
| | | 3220 | 170 | 2684SC | 2681SC | | | 1,851 |
| | | 4025 | 200 | 2704SC | 2701SC | | | 3,216 |
| | 5032 | 240 | 2724SC | 2721SC | | | 6,114 | |
| ISO 5 (126) CRANKED FACING TOOLS | | | RIGHT HAND (RH) | | LEFT HAND (LH) | | | |
| |  | 1010 | 90 | 2404RC | 2401RC | 2404LC | 2401LC | 452 |
| | | 1212 | 100 | 2414RC | 2411RC | 2414LC | 2411LC | 497 |
| | | 1616 | 110 | 2434RC | 2430RC | 2434LC | 2431LC | 688 |
| | | 2020 | 125 | 2454RC | 2451RC | 2454LC | 2451LC | 953 |
| | | 2525 | 140 | 2474RC | 2471RC | 2474LC | 2471LC | 1,432 |
| | | 3232 | 170 | 2494RC | 2491RC | 2494LC | 2491LC | 2,466 |
| | | 4040 | 200 | 2426RC | 2511RC | 2426LC | 2511LC | 4,800 |
| | | 5050 | 240 | 2428RC | 2531RC | 2428LC | 2531LC | 10,185 |
| | | 1610 | 110 | 2424RC | 2421RC | 2424LC | 2421LC | 536 |
| | | 2012 | 125 | 2444RC | 2441RC | 2444LC | 2441LC | 726 |
| | | 2516 | 140 | 2464RC | 2461RC | 2464LC | 2461LC | 974 |
| | | 3220 | 170 | 2484RC | 2481RC | 2484LC | 2481LC | 1,548 |
| | | 4025 | 200 | 2504RC | 2501RC | 2504LC | 2501LC | 2,774 |
| | 5032 | 240 | 2524RC | 2521RC | 2524LC | 2521LC | 5,751 | |
| ISO 6 (117) CRANKED KNIFE TOOLS |  | 1010 | 90 | 2004RC | 2001RC | 2004LC | 2001LC | 452 |
| | | 1212 | 100 | 2014RC | 2011RC | 2014LC | 2011LC | 497 |
| | | 1616 | 110 | 2034RC | 2031RC | 2034LC | 2031LC | 688 |
| | | 2020 | 125 | 2054RC | 2051RC | 2054LC | 2051LC | 953 |
| | | 2525 | 140 | 2074RC | 2071RC | 2074LC | 2071LC | 1,432 |
| | | 3232 | 170 | 2094RC | 2091RC | 2094LC | 2091LC | 2,466 |
| | 4040 | 200 | 2114RC | 2111RC | 2114LC | 2111LC | 4,800 | |

| ISO 6 (117) CRANKED KNIFE TOOLS | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS./ PIECE |
|---|--------------------------|--------|---------------------|--------|------------------|--------|---------------------|
| | | | ORDER CODE - MIR100 | | | | |
| | | | P30 | K20 | P30 | K20 | |
|  | 5050 | 240 | 2134RC | 2131RC | 2134LC | 2131LC | 10,185 |
| | 1610 | 110 | 2024RC | 2021RC | 2024LC | 2021LC | 536 |
| | 2012 | 125 | 2044RC | 2041RC | 2044LC | 2041LC | 726 |
| | 2516 | 140 | 2064RC | 2061RC | 2064LC | 2061LC | 974 |
| | 3220 | 170 | 2084RC | 2081RC | 2084LC | 2081LC | 1,832 |
| | 4025 | 200 | 2104RC | 2101RC | 2104LC | 2101LC | 2,782 |
| | 5032 | 240 | 2124RC | 2121RC | 2132LC | 2121LC | 5,759 |
| ISO 7 (150) PARTING OFF TOOLS | 1010 | 90 | 5103RC | 5201RC | 5204LC | 5201LC | 541 |
| | 1212 | 100 | 5214RC | 5211RC | 5214LC | 5211LC | 615 |
| | 1616 | 110 | 5314RC | 5231RC | 5314LC | 5231LC | 683 |
| | 2020 | 125 | 5254RC | 5180RC | 5254LC | 5180LC | 754 |
| | 2525 | 140 | 5071RC | 5061RC | 5071LC | 5061LC | 1,010 |
| | 3232 | 170 | 5274RC | 5271RC | 5274LC | 5271LC | 1,604 |
| | 1006 | 90 | 5104RC | 5101RC | 5104LC | 5101LC | 452 |
| | 1208 | 100 | 5114RC | 5111RC | 5114LC | 5111LC | 536 |
| | 1610 | 110 | 5124RC | 5121RC | 5124LC | 5121LC | 569 |
| | 2012 | 125 | 5134RC | 5131RC | 5134LC | 5131LC | 631 |
| | 2516 | 140 | 5144RC | 5141RC | 5144LC | 5141LC | 836 |
| | 3220 | 170 | 5154RC | 5151RC | 5154LC | 5151LC | 1,342 |
| | 4025 | 200 | 5164RC | 5161RC | 5164LC | 5161LC | 2,218 |
| 5032 | 240 | 5166RC | 5301RC | 5304LC | 5301LC | 3,137 | |
| ISO 8 (130) BORING TOOLS (SQUARE) | 0808 | 125 | 2804RC | 2801RC | 2804LC | 2801LC | 833 |
| | 1010 | 150 | 2814RC | 2811RC | 2814LC | 2811LC | 893 |
| | 1212 | 180 | 2827RC | 2823RC | 2827LC | 2823LC | 974 |
| | 1616 | 210 | 2834RC | 2831RC | 2834LC | 2831LC | 1,170 |
| | 2020 | 250 | 2844RC | 2841RC | 2844LC | 2841LC | 1,432 |
| | 2525 | 300 | 2854RC | 2851RC | 2854LC | 2851LC | 2,676 |
| | 3232 | 355 | 2864RC | 2861RC | 2864LC | 2861LC | 3,479 |
| | 4040 | 400 | 2874RC | 2871RC | 2874LC | 2871LC | 5,052 |
| 5050 | 450 | 2878RC | 2877RC | 2878LC | 2877LC | 9,278 | |
| ISO 8 (131) BORING TOOLS (ROUND) | Ø08 | 125 | 2904RC | 2901RC | 2904LC | 2901LC | 773 |
| | Ø10 | 150 | 2914RC | 2911RC | 2914LC | 2911LC | 833 |
| | Ø12 | 180 | 2924RC | 2921RC | 2924LC | 2921LC | 893 |
| | Ø16 | 210 | 2934RC | 2931RC | 2934LC | 2931LC | 1,026 |
| | Ø20 | 250 | 2944RC | 2941RC | 2944LC | 2941LC | 1,253 |
| | Ø25 | 300 | 2954RC | 2951RC | 2954LC | 2951LC | 2,382 |
| Ø32 | 355 | 2964RC | 2961RC | 2964LC | 2961LC | 3,033 | |

| ISO 9 (135) BORING TOOLS (SQUARE) | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS./ PIECE |
|---|--------------------------|--------|---------------------|--------|------------------|--------|---------------------|
| | | | ORDER CODE - MIR100 | | | | |
| | | | P30 | K20 | P30 | K20 | |
|  | 0808 | 125 | 3004RC | 3001RC | 3004LC | 3001LC | 833 |
| | 1010 | 150 | 3014RC | 3011RC | 3014LC | 3011LC | 893 |
| | 1212 | 180 | 3024RC | 3021RC | 3024LC | 3021LC | 974 |
| | 1616 | 210 | 3034RC | 3031RC | 3034LC | 3031LC | 1,170 |
| | 2020 | 250 | 3044RC | 3041RC | 3044LC | 3041LC | 1,432 |
| | 2525 | 300 | 3054RC | 3051RC | 3054LC | 3051LC | 2,676 |
| | 3232 | 355 | 3064RC | 3061RC | 3064LC | 3061LC | 3,479 |
| | 4040 | 400 | 3068RC | 3062RC | 3068LC | 3062LC | 5,052 |
| ISO 9 (136) BORING TOOLS (ROUND) | Ø08 | 125 | 3104RC | 3101RC | 3104LC | 3101LC | 773 |
| | Ø10 | 150 | 3114RC | 3111RC | 3114LC | 3111LC | 833 |
| | Ø12 | 180 | 3124RC | 3121RC | 3124LC | 3121LC | 893 |
| | Ø16 | 210 | 3134RC | 3131RC | 3134LC | 3131LC | 1,026 |
| | Ø20 | 250 | 3144RC | 3141RC | 3144LC | 3141LC | 1,253 |
| | Ø25 | 300 | 3154RC | 3151RC | 3154LC | 3151LC | 2,382 |
| | Ø32 | 355 | 3164RC | 3161RC | 3164LC | 3161LC | 3,033 |
| 113 - STRAIGHT ROUND NOSE TURNING TOOLS | NEUTRAL (NH) | | | | | | |
| | 1010 | 90 | 1404SC | 1401SC | | | 452 |
| | 1212 | 100 | 1414SC | 1411SC | | | 497 |
| | 1616 | 110 | 1434SC | 1431SC | | | 699 |
| | 2020 | 125 | 1454SC | 1451SC | | | 1,084 |
| | 2525 | 140 | 1474SC | 1471SC | | | 1,564 |
| | 3232 | 170 | 1494SC | 1491SC | | | 2,906 |
| | 4040 | 200 | 1614SC | 1506SC | | | 5,389 |
| | 1610 | 110 | 1424SC | 1421SC | | | 541 |
| | 2012 | 125 | 1444SC | 1441SC | | | 662 |
| | 2516 | 140 | 1464SC | 1461SC | | | 906 |
| | 3220 | 170 | 1484SC | 1481SC | | | 1,259 |
| | 4025 | 200 | 1504SC | 1501SC | | | 2,528 |
| | 5032 | 240 | 0057AC | 0057SC | | | 4,743 |
| 115 CRANKED ROUND NOSE TURNING TOOLS. | | | RIGHT HAND (RH) | | LEFT HAND (LH) | | |
| | 1010 | 90 | 1604RC | 1601RC | 1604LC | 1601LC | 497 |
| | 1212 | 100 | 1614RC | 1611RC | 1614LC | 1611LC | 530 |
| | 1616 | 110 | 1634RC | 1631RC | 1634LC | 1631LC | 726 |
| | 2020 | 125 | 1654RC | 1651RC | 1654LC | 1651LC | 1,084 |
| | 2525 | 140 | 1674RC | 1671RC | 1674LC | 1671LC | 1,564 |
| | 3232 | 170 | 1694RC | 1691RC | 1694LC | 1691LC | 3,033 |
| | 4040 | 200 | 1714RC | 1711RC | 1714LC | 1711LC | 5,620 |
| | 1610 | 110 | 1624RC | 1621RC | 1624LC | 1621LC | 596 |
| | 2012 | 125 | 1644RC | 1641RC | 1644LC | 1641LC | 699 |
| | 2516 | 140 | 1664RC | 1661RC | 1664LC | 1661LC | 953 |
| | 3220 | 170 | 1684RC | 1681RC | 1684LC | 1681LC | 1,325 |
| | 4025 | 200 | 1704RC | 1701RC | 1704LC | 1701LC | 2,641 |

| 116 - BAR TURNING TOOLS | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS./ PIECE |
|---|--------------------------|--------|---------------------|--------|------------------|--------|---------------------|
| | | | ORDER CODE - MIR100 | | | | |
| | | | P30 | K20 | P30 | K20 | |
|  | 1010 | 90 | 1804RC | 1801RC | 1804LC | 1801LC | 409 |
| | 1212 | 100 | 1814RC | 1811RC | 1814LC | 1811LC | 452 |
| | 1616 | 110 | 1834RC | 1831RC | 1834LC | 1831LC | 604 |
| | 2020 | 125 | 1854RC | 1851RC | 1854LC | 1851LC | 893 |
| | 2525 | 140 | 1874RC | 1871RC | 1874LC | 1871LC | 1382 |
| | 3232 | 170 | 1894RC | 1891RC | 1894LC | 1891LC | 2388 |
| | 4040 | 200 | 1914RC | 1911RC | 1914LC | 1911LC | 4717 |
| | 5050 | 240 | 1934RC | 1931RC | 1934LC | 1931LC | 10031 |
| | 1610 | 110 | 1824RC | 1821RC | 1824LC | 1821LC | 485 |
| | 2012 | 125 | 1844RC | 1841RC | 1844LC | 1841LC | 785 |
| | 2516 | 140 | 1864RC | 1861RC | 1864LC | 1861LC | 1120 |
| | 3220 | 170 | 1884RC | 1881RC | 1884LC | 1881LC | 1537 |
| | 4025 | 200 | 1904RC | 1901RC | 1904LC | 1901LC | 2466 |
| 122 - POINTED TURNING TOOLS | NEUTRAL (NH) | | | | | | |
|  | 1010 | 90 | 0805SC | 0801SC | | | 452 |
| | 1212 | 100 | 0815SC | 0811SC | | | 553 |
| | 1616 | 110 | 0835SC | 0831SC | | | 610 |
| | 2020 | 125 | 0855SC | 0851SC | | | 836 |
| | 2525 | 140 | 0875SC | 0871SC | | | 1189 |
| | 3232 | 170 | 0895SC | 0891SC | | | 2950 |
| | 4040 | 200 | 0902SC | 0903SC | | | 5414 |
| | 5050 | 240 | 0925SC | 0926SC | | | 5904 |
| | 1610 | 110 | 0825SC | 0821SC | | | 604 |
| | 2012 | 125 | 0845SC | 0841SC | | | 640 |
| | 2516 | 140 | 0865SC | 0861SC | | | 836 |
| | 3220 | 170 | 0885SC | 0881SC | | | 1244 |
| | 4025 | 200 | 0905SC | 0901SC | | | 2080 |
| | 5032 | 240 | 0906SC | 0907SC | | | 4364 |
| 140 (60°) BORING TOOLS (SQUARE) | | | RIGHT HAND (RH) | | LEFT HAND (LH) | | |
|  | 0808 | 24 | 3604RC | 3601RC | 3604LC | 3601LC | 521 |
| | 1010 & 3/8" | 50 | 3614RC | 3611RC | 3614LC | 3611LC | 521 |
| | 1212 & 1/2" | 60 | 3624RC | 3621RC | 3624LC | 3621LC | 597 |
| | 1616 & 5/8" | 90 | 3634RC | 3631RC | 3634LC | 3631LC | 836 |
| | 2020 & 3/4" | 120 | 3644RC | 3641RC | 3644LC | 3641LC | 1327 |
| | 2525 & 1" | 175 | 3654RC | 3651RC | 3654LC | 3651LC | 1749 |
| 140 (60°) BORING TOOLS (ROUND) | | | | | | | |
|  | Ø8 | 24 | 3504RC | 3501RC | 3504LC | 3501LC | 452 |
| | Ø10 & 3/8" | 50 | 3514RC | 3511RC | 3514LC | 3511LC | 452 |
| | Ø12 & 1/2" | 60 | 3524RC | 3521RC | 3524LC | 3521LC | 530 |
| | Ø16 & 5/8" | 90 | 3534RC | 3531RC | 3534LC | 3531LC | 688 |
| | Ø20 & 3/4" | 120 | 3544RC | 3541RC | 3544LC | 3541LC | 1232 |
| | Ø25 & 1" | 175 | 3554RC | 3551RC | 3554LC | 3551LC | 1598 |

| 141 (90°) BORING TOOLS (SQUARE)  | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS./ PIECE |
|--|--------------------------|--------|---------------------|--------|------------------|--------|---------------------|
| | | | ORDER CODE - MIR100 | | | | |
| | | | P30 | K20 | P30 | K20 | |
| | 0808 | 24 | 4104RC | 4101RC | 4104LC | 4101LC | 521 |
| | 1010 & 3/8" | 50 | 4114RC | 4111RC | 4114LC | 4111LC | 521 |
| | 1212 & 1/2" | 60 | 4124RC | 4121RC | 4124LC | 4121LC | 597 |
| | 1616 & 5/8" | 90 | 4134RC | 4131RC | 4134LC | 4131LC | 836 |
| | 2020 & 3/4" | 120 | 4144RC | 4141RC | 4144LC | 4141LC | 1327 |
| | 2525 & 1" | 175 | 4154RC | 4151RC | 4154LC | 4151LC | 1749 |
| 141 (90°) BORING TOOLS (ROUND)  | Ø08 | 24 | 4004RC | 4001RC | 4004LC | 4001LC | 452 |
| | Ø10 & 3/8" | 50 | 4014RC | 4011RC | 4014LC | 4011LC | 452 |
| | Ø12 & 1/2" | 60 | 4024RC | 4021RC | 4024LC | 4021LC | 530 |
| | Ø16 & 5/8" | 90 | 4034RC | 4031RC | 4034LC | 4031LC | 688 |
| | Ø20 & 3/4" | 120 | 4044RC | 4041RC | 4044LC | 4041LC | 1232 |
| | Ø25 & 1" | 175 | 4054RC | 4051RC | 4054LC | 4051LC | 1598 |
| 142 (45°) BORING TOOLS (SQUARE)  | 0808 | 24 | 4604RC | 4601RC | 4604LC | 4601LC | 521 |
| | 1010 & 3/8" | 50 | 4614RC | 4611RC | 4614LC | 4611LC | 521 |
| | 1212 & 1/2" | 60 | 4624RC | 4621RC | 4624LC | 4621LC | 597 |
| | 1616 & 5/8" | 90 | 4634RC | 4631RC | 4634LC | 4631LC | 836 |
| | 2020 & 3/4" | 120 | 4644RC | 4641RC | 4644LC | 4641LC | 1327 |
| | 2525 & 1" | 175 | 4654RC | 4651RC | 4654LC | 4651LC | 1749 |
| 142 (45°) BORING TOOLS (ROUND)  | Ø08 | 24 | 4504RC | 4501RC | 4504LC | 4501LC | 452 |
| | Ø10 & 3/8" | 50 | 4514RC | 4511RC | 4514LC | 4511LC | 452 |
| | Ø12 & 1/2" | 60 | 4524RC | 4521RC | 4524LC | 4521LC | 530 |
| | Ø16 & 5/8" | 90 | 4534RC | 4531RC | 4534LC | 4531LC | 688 |
| | Ø20 & 3/4" | 120 | 4544RC | 4541RC | 4544LC | 4541LC | 1232 |
| | Ø25 & 1" | 175 | 4554RC | 4551RC | 4554LC | 4551LC | 1598 |
| 156 - CRANKED INTERNAL RECESSING TOOLS  | 1010 | 90 | 5404RC | 5401RC | 5404LC | 5401LC | 855 |
| | 1212 | 100 | 5414RC | 5411RC | 5414LC | 5411LC | 974 |
| | 1616 | 110 | 5424RC | 5421RC | 5424LC | 5421LC | 1091 |
| | 2020 | 125 | 5434RC | 5431RC | 5434LC | 5431LC | 1410 |
| | 2525 | 140 | 5444RC | 5441RC | 5444LC | 5441LC | 1931 |
| | 3232 | 170 | 5454RC | 5451RC | 5454LC | 5451LC | 2747 |
| | 4040 | 315 | 5464RC | 5461RC | 5464LC | 5461LC | 4557 |
| 163 - STRAIGHT TURNING & GROOVING TOOLS  | NEUTRAL (NH) | | | | | | |
| | 1010 | 90 | 5704SC | 5701SC | | | 553 |
| | 1212 | 100 | 5714SC | 5711SC | | | 631 |
| | 1616 | 110 | 5734SC | 5731SC | | | 953 |
| | 2020 | 125 | 5754SC | 5751SC | | | 1389 |
| | 2525 | 140 | 5774SC | 5771SC | | | 2320 |
| | 3232 | 170 | 5794SC | 5791SC | | | 5053 |
| | 4040 | 200 | 5798SC | 5762SC | | | 9701 |
| | 1610 | 110 | 5724SC | 5721SC | | | 541 |
| | 2012 | 125 | 5744SC | 5741SC | | | 690 |
| | 2516 | 140 | 5764SC | 5761SC | | | 1045 |
| | 3220 | 170 | 5784SC | 5781SC | | | 1712 |

| 165 - STRAIGHT THREADING TOOLS (60°) | SHANK SIZE H X B (mm) | L (mm) | RIGHT HAND (RH) | | LEFT HAND (LH) | | PRICE RS./ PIECE |
|---|--------------------------|--------|---------------------|--------|------------------|--------|---------------------|
| | | | ORDER CODE - MIR100 | | | | |
| | | | P30 | K20 | P30 | K20 | |
| | 1010 | 90 | 6002RC | 6001RC | 6002LC | 6001LC | 597 |
| | 1212 | 100 | 6012RC | 6011RC | 6012LC | 6011LC | 632 |
| | 1616 | 110 | 6044RC | 6031RC | 6044LC | 6031LC | 823 |
| | 2020 | 125 | 6054RC | 6051RC | 6054LC | 6051LC | 1,120 |
| | 2525 | 140 | 6074RC | 6071RC | 6074LC | 6071LC | 1,665 |
| | 3232 | 170 | 6094RC | 6091RC | 6094LC | 6091LC | 2,204 |
| 166 - INTERNAL THREADING TOOLS (60°) | 1010 | 90 | 6204RC | 6201RC | 6204LC | 6201LC | 987 |
| | 1212 | 100 | 6214RC | 6211RC | 6214LC | 6211LC | 1,116 |
| | 1616 | 110 | 6224RC | 6221RC | 6224LC | 6221LC | 1,211 |
| | 2020 | 125 | 6234RC | 6231RC | 6234LC | 6231LC | 1,485 |
| | 2525 | 140 | 6256RC | 6241RC | 6256LC | 6241LC | 1,944 |
| | 3232 | 170 | 6254RC | 6251RC | 6254LC | 6251LC | 2,933 |
| IND-2-EXTERNAL THREADING TOOLS | 1010 | 90 | 0905RC | 0901RC | 0905LC | 0901LC | 701 |
| | 1212 | 100 | 0915RC | 0911RC | 0915LC | 0911LC | 828 |
| | 1616 | 110 | 0935RC | 0931RC | 0935LC | 0931LC | 880 |
| | 2020 | 125 | 0955RC | 9101RC | 0955LC | 9101LC | 977 |
| | 2525 | 140 | 0975RC | 0971RC | 0975LC | 0971LC | 1,633 |
| THREADING TOOLS WITH "V" PROFILE | NEUTRAL (NH) | | | | | | |
| | 166 - 11 | 140 | 6264RC | 6261RC | | | 902 |
| | 166 - 12 | 160 | 6274RC | 6271RC | | | 1,101 |
| | 166 - 13 | 180 | 6284RC | 0114RC | | | 1,537 |
| | 166 - 14 | 200 | 6294RC | 6292RC | | | 2,144 |

Indian Standard Application of Carbides for Machining, Ranges of application and Colour Code Selection Guideline for Tip Grade

| Identification Colour | Designation | Material to be Machined |
|-----------------------|-------------|--|
| | P20 | Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning & Milling-Medium cutting speed and medium chip section, Planing with small chip section |
| | P30 | Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning, Milling & Planning-Medium or low cutting speed, medium or large chip section and machining under unfavourable conditions such as heat erogenous materials, changing hardness or chip section, intermittent turning or subject to vibrations. |
| | P40 | Steel, steel casting with sand inclusions or shrinkage cavities Machining Conditions Turning, Planning & Shapping-Low cutting speed, large chip section with possibility of using large rake angle for machining under unfavourable conditions, such as heat erogenous materials, changing hardness or chip sections, intermillent turning or subject to vibrations; and work on automatic machines. |
| | K10 | Grey cast iron of hardness more than 220 HB, Malleable cast iron forming short chips, Tempered steel, Aluminium alloys containing silicon, copper alloys, plastics, glass, hard rubber, hard carboard, porcelain, stone. Machining Conditions Turning, Milling, Boring, Scraping |
| | K20 | Grey cast iron of hardness up to 220 HB, Non-ferrous metals, such as Copper, Brass, . Aluminium, Laminated wood of abrasive type Machining Conditions Turning, Milling, planning, requiring high toughness. |

TUNGSTEN CARBIDE ROTARY BURRS



PRODUCT RANGE

Types : Cylindrical & with Radius Flame, Rim & Inverted Cone
Tree shape - Radius / Pointed end
Cone shape - Radius / Pointed end

Range : Diameter 3.0 mm to 25.0 mm, Shank 3.0 mm, 6.0 mm & 8.0 mm
Single cut, Double cut, Diamond cut & Aluma cut

APPLICATIONS

- Cast Iron
- Mild Steel
- Stainless Steel
- Forged Steel
- Titanium
- Aluminium

INDUSTRIES

- Foundry, Casting & Fabrication
- Marine & Shipbuilding
- Automobile, Heavy Engineering
- Tubes & Pipes
- Aerospace & Defense
- Gear Manufacturing

TUNGSTEN CARBIDE ROTARY BURRS

| SHAPE | MIRANDA CODE | DESCRIPTION | PRICE RS./ PIECE | | | |
|--|--------------|--|------------------|----------------|------------|------------------|
| | | | ORDER CODE | STANDARD PRICE | ORDER CODE | TIN COATED PRICE |
| | | HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA | MIRTCRBFU | | MIRTCRBFU | |
|  CONICAL | MAM1 | 3MM X 11MM X 38MM X 3SHK | 1011AS | 558 | 1011AS | 615 |
| | MAM2 | 6MM X 11MM X 38MM X 3SHK | 1012BS | 731 | 1012BS | 806 |
| | AM1 | 6MM X 19MM X 60MM X 6SHK | 1010AS | 867 | 1010AS | 953 |
| | AM2 | 10MM X 20MM X 70MM X 6SHK | 1020BS | 867 | 1020BS | 953 |
| | AM3 | 12MM X 25MM X 75MM X 6SHK | 1030CS | 1191 | 1030CS | 1309 |
| | AM4 | 10MM X 12MM X 60MM X 6SHK | 1040DS | 903 | 1040DS | 991 |
| | AM5 | 16MM X 13MM X 63MM X 6SHK | 1050ES | 1300 | 1050ES | 1464 |
| | AM6 | 16MM X 16MM X 66MM X 6SHK | 1060FS | 1300 | 1060FS | 1464 |
|  CYLINDRICAL RADIUS END | MBM1 | 3MM X 16MM X 38MM X 3SHK | 2011AS | 558 | 2011AS | 615 |
| | MBM2 | 6MM X 13MM X 38MM X 3SHK | 2012BS | 731 | 2012BS | 806 |
| | BM1 | 6MM X 20MM X 50MM X 6SHK | 2010AS | 877 | 2010AS | 962 |
| | BM2 | 8MM X 20MM X 70MM X 6SHK | 2020BS | 847 | 2020BS | 933 |
| | BM3 | 10MM X 20MM X 70MM X 6SHK | 2030CS | 1058 | 2030CS | 1164 |
| | BM4 | 12MM X 20MM X 70MM X 6SHK | 2040DS | 1365 | 2040DS | 1530 |
| | BM5 | 16MM X 25MM X 75MM X 6SHK | 2050ES | 2088 | 2050ES | 2337 |
| | BM6 | 12MM X 25MM X 75MM X 6SHK | 2060FS | 1895 | 2060FS | 2126 |
|  CYLINDRICAL | MCM1 | 3MM X 16MM X 38MM X 3SHK | 3011AS | 558 | 3011AS | 615 |
| | MCM2 | 6MM X 6MM X 38MM X 3SHK | 3012BS | 627 | 3012BS | 692 |
| | MCM3 | 6MM X 13MM X 38MM X 3SHK | 3013CS | 731 | 3013CS | 806 |
| | CM1 | 4MM X 15MM X 50MM X 6SHK | 3010AS | 731 | 3010AS | 806 |
| | CM2 | 6MM X 20MM X 60MM X 6SHK | 3020BS | 839 | 3020BS | 924 |
| | CM3 | 8MM X 20MM X 70MM X 6SHK | 3030CS | 953 | 3030CS | 1048 |
| | CM4 | 10MM X 20MM X 70MM X 6SHK | 3040DS | 1048 | 3040DS | 1154 |
| | CM5 | 12MM X 20MM X 70MM X 6SHK | 3050ES | 1318 | 3050ES | 1473 |
| | CM6 | 16MM X 25MM X 75MM X 6SHK | 3060FS | 2113 | 3060FS | 2364 |
| | CM7 | 12MM X 16MM X 65MM X 6SHK | 3070GS | 1287 | 3070GS | 1441 |
| | CM8 | 12MM X 25MM X 75MM X 6SHK | 3080HS | 2088 | 3080HS | 2337 |
|  FLAME | FM1 | 6MM X 15MM X 50MM X 6SHK | 4010AS | 839 | 4010AS | 924 |
| | FM2 | 8MM X 20MM X 70MM X 6SHK | 4020BS | 867 | 4020BS | 953 |
| | FM3 | 10MM X 25MM X 65MM X 6SHK | 4030CS | 1711 | 4030CS | 1914 |
| | FM4 | 12MM X 32MM X 82MM X 6SHK | 4040DS | 2055 | 4040DS | 2320 |
|  CONE RADIUS | MKM1 | 3MM X 8MM X 38MM X 3SHK | 5011AS | 558 | 5011AS | 615 |
| | MKM2 | 6MM X 12MM X 38MM X 3SHK | 5012BS | 731 | 5012BS | 806 |
| | KM1 | 10MM X 20MM X 65MM X 6SHK | 5010AS | 820 | 5010AS | 903 |
| | KM2 | 12MM X 20MM X 70MM X 6SHK | 5020BS | 1365 | 5020BS | 1530 |
| | KM3 | 16MM X 33MM X 75MM X 6SHK | 5030CS | 1885 | 5030CS | 2106 |

| SHAPE | MIRANDA CODE | DESCRIPTION | PRICE RS./ PIECE | | | |
|---|--------------|---------------------------|------------------|----------------|------------|------------------|
| | | | ORDER CODE | STANDARD PRICE | ORDER CODE | TIN COATED PRICE |
| | | HEAD DIA X HEAD LENGTH | | | | |
| | | X OAL LENGTH X SHANK DIA | MIRTCRBFU | | MIRTCRBFU | |
|  OVAL | MOM1 | 3MM X 8MM X 38MM X 3SHK | MOM1S0814 | 558 | MOM1S0814 | 615 |
| | MOM2 | 6MM X 10MM X 38MM X 3SHK | MOM2S0610 | 731 | MOM2S0610 | 806 |
| | OM1 | 8MM X 14MM X 60MM X 6SHK | OM10S0814 | 933 | OM10S0814 | 1030 |
| | OM2 | 12MM X 20MM X 70MM X 6SHK | OM20S1220 | 1365 | OM20S1220 | 1530 |
| | OM3 | 16MM X 25MM X 75MM X 6SHK | OM30S1625 | 2106 | OM30S1625 | 2356 |
| | OM4 | 6MM X 10MM X 60MM X 6SHK | OM40S0610 | 933 | OM40S0610 | 1030 |
|  RIM | RM1 | 10MM X 2MM X 50MM X 6SHK | RM10S1002 | 820 | RM10S1002 | 903 |
| | RM2 | 20MM X 6MM X 60MM X 6SHK | RM20S2006 | 1538 | RM20S2006 | 1693 |
| | RM3 | 12MM X 10MM X 60MM X 6SHK | RM30S1210 | 1365 | RM30S1210 | 1502 |
|  BALL | MSM1 | 4MM X 3MM X 38MM X 3SHK | MSM1S0403 | 647 | MSM1S0403 | 711 |
| | MSM2 | 5MM X 4MM X 38MM X 3SHK | MSM2S0504 | 675 | MSM2S0504 | 743 |
| | SM1 | 6MM X 5MM X 50MM X 6SHK | SM10S0605 | 806 | SM10S0605 | 885 |
| | SM2 | 8MM X 7MM X 50MM X 6SHK | SM20S0807 | 848 | SM20S0807 | 933 |
| | SM3 | 10MM X 9MM X 60MM X 6SHK | SM30S1009 | 848 | SM30S1009 | 933 |
| | SM4 | 12MM X 11MM X 60MM X 6SHK | SM40S1211 | 1065 | SM40S1211 | 1170 |
| | SM5 | 16MM X 14MM X 65MM X 6SHK | SM50S1614 | 1441 | SM50S1614 | 1617 |
|  TREE POINTED END | MTM1 | 3MM X 13MM X 38MM X 3SHK | MTM1S0313 | 558 | MTM1S0313 | 615 |
| | MTM2 | 3MM X 16MM X 38MM X 3SHK | MTM2S0316 | 558 | MTM2S0316 | 615 |
| | MTM3 | 6MM X 13MM X 38MM X 3SHK | MTM3S0613 | 731 | MTM3S0613 | 806 |
| | TM1 | 6MM X 20MM X 70MM X 6SHK | TM10S0620 | 885 | TM10S0620 | 971 |
| | TM2 | 10MM X 20MM X 70MM X 6SHK | TM20S1020 | 1058 | TM20S1020 | 1164 |
| | TM3 | 12MM X 25MM X 75MM X 6SHK | TM30S1225 | 1268 | TM30S1225 | 1397 |
| | TM4 | 16MM X 30MM X 80MM X 6SHK | TM40S1630 | 1885 | TM40S1630 | 2106 |
|  TREE RADIUS END | TBM1 | 6MM X 20MM X 70MM X 6SHK | TBM1S0620 | 885 | TBM1S0620 | 971 |
| | TBM2 | 10MM X 20MM X 70MM X 6SHK | TBM2S1020 | 1058 | TBM2S1020 | 1164 |
| | TBM3 | 12MM X 25MM X 75MM X 6SHK | TBM3S1225 | 1337 | TBM3S1225 | 1502 |
|  INVERTED CONE | MIM1 | 3MM X 8MM X 38MM X 3SHK | MIM1S0308 | 558 | MIM1S0308 | 615 |
| | MIM2 | 6MM X 8MM X 38MM X 3SHK | MIM2S0608 | 627 | MIM2S0608 | 692 |

SOLID CARBIDE TOOLS

MIRANDA
Maxx



**SOLID CARBIDE TOOLS
END MILLS**



| SC4M 4 FLUTE - TiAIN coated | | | | |
|-----------------------------|--------|----|-----|-----------------|
| Dia | SH.DIA | FL | OAL | PRICE RS./PIECE |
| 1.0 | 3.0 | 3 | 38 | 1,175 |
| 1.5 | 3.0 | 6 | 38 | 1,175 |
| 2.0 | 3.0 | 9 | 38 | 1,175 |
| 2.5 | 3.0 | 9 | 38 | 1,175 |
| 3.0 | 3.0 | 12 | 38 | 1,107 |
| 3.5 | 4.0 | 14 | 50 | 1,454 |
| 4.0 | 4.0 | 14 | 50 | 1,454 |
| 4.5 | 5.0 | 16 | 50 | 1,826 |
| 5.0 | 5.0 | 20 | 50 | 1,826 |
| 5.5 | 6.0 | 20 | 60 | 1,906 |
| 6.0 | 6.0 | 20 | 60 | 1,906 |
| 8.0 | 8.0 | 20 | 60 | 2,110 |
| 10.0 | 10.0 | 25 | 75 | 4,014 |
| 12.0 | 12.0 | 25 | 75 | 4,656 |
| 14.0 | 14.0 | 25 | 75 | 8,176 |
| 16.0 | 16.0 | 32 | 89 | 8,836 |
| 20.0 | 20.0 | 38 | 100 | 18,777 |

| SCBALL NOSE-EM 4 FLUTE - TiAIN coated | | | | |
|---------------------------------------|--------|----|-----|-----------------|
| Dia | SH.DIA | FL | OAL | PRICE RS./PIECE |
| 1.0 | 3.0 | 3 | 38 | 1,484 |
| 1.5 | 3.0 | 5 | 38 | 1,484 |
| 2.0 | 3.0 | 7 | 38 | 1,484 |
| 2.5 | 3.0 | 7 | 38 | 1,484 |
| 3.0 | 3.0 | 9 | 38 | 1,337 |
| 4.0 | 4.0 | 14 | 50 | 1,744 |
| 5.0 | 5.0 | 16 | 50 | 2,196 |
| 6.0 | 6.0 | 20 | 60 | 2,290 |
| 8.0 | 8.0 | 20 | 60 | 2,582 |
| 10.0 | 10.0 | 25 | 75 | 4,812 |
| 12.0 | 12.0 | 25 | 75 | 5,594 |
| 16.0 | 16.0 | 32 | 89 | 10,622 |
| 20.0 | 20.0 | 38 | 102 | 22,534 |



| LONG LENGTH 4 FLUTE | | | | PRICE RS./PIECE |
|---------------------|--------|----|-----|-----------------|
| Dia | SH.DIA | FL | OAL | |
| 3 | 3 | 20 | 60 | 2,112 |
| 4 | 4 | 20 | 60 | 2,383 |
| 5 | 5 | 25 | 75 | 2,656 |
| 6 | 6 | 30 | 75 | 2,771 |
| 8 | 8 | 40 | 100 | 3,084 |
| 10 | 10 | 40 | 100 | 4,863 |
| 10 | 10 | 75 | 150 | 11,103 |
| 12 | 12 | 50 | 100 | 6,971 |
| 12 | 12 | 75 | 150 | 13,619 |
| 16 | 16 | 75 | 150 | 20,432 |
| 20 | 20 | 75 | 150 | 33,984 |

| SCNB - LONG LENGTH 4 FLUTE | | | | PRICE RS./PIECE |
|----------------------------|--------|----|-----|-----------------|
| Dia | SH.DIA | FL | OAL | |
| 3 | 3 | 20 | 60 | 2,532 |
| 4 | 4 | 20 | 60 | 2,863 |
| 5 | 5 | 25 | 75 | 3,184 |
| 6 | 6 | 30 | 75 | 3,329 |
| 8 | 8 | 40 | 100 | 3,662 |
| 10 | 10 | 40 | 100 | 5,837 |
| 10 | 10 | 75 | 150 | 13,326 |
| 12 | 12 | 50 | 100 | 8,354 |
| 12 | 12 | 75 | 150 | 16,345 |
| 16 | 16 | 75 | 150 | 24,521 |
| 20 | 20 | 75 | 150 | 40,783 |



**SOLID CARBIDE TOOLS
DRILL**



| Solid Carbide Jobber Drill -TiAlN Coated | | | | |
|--|--------|-----|-----|------------------|
| Dia | SH.DIA | FL | OAL | PRICE RS./ PIECE |
| 1.0 | 1.0 | 12 | 32 | 1,011 |
| 1.5 | 1.5 | 18 | 40 | 1,085 |
| 2.0 | 2.0 | 24 | 49 | 1,241 |
| 2.5 | 2.5 | 30 | 57 | 1,241 |
| 3.0 | 3.0 | 33 | 61 | 1,389 |
| 3.5 | 3.5 | 39 | 70 | 1,512 |
| 4.0 | 4.0 | 43 | 75 | 1,860 |
| 4.5 | 4.5 | 47 | 80 | 1,992 |
| 5.0 | 5.0 | 52 | 86 | 2,281 |
| 5.5 | 5.5 | 57 | 93 | 2,641 |
| 6.0 | 6.0 | 57 | 93 | 2,747 |
| 6.5 | 6.5 | 63 | 101 | 3,093 |
| 7.0 | 7.0 | 69 | 109 | 3,387 |
| 7.5 | 7.5 | 69 | 109 | 3,697 |
| 8.0 | 8.0 | 75 | 117 | 4,169 |
| 8.5 | 8.5 | 75 | 117 | 4,567 |
| 9.0 | 9.0 | 81 | 125 | 5,182 |
| 9.5 | 9.5 | 81 | 125 | 5,916 |
| 10.0 | 10.0 | 87 | 133 | 6,791 |
| 10.5 | 10.5 | 87 | 133 | 7,589 |
| 11.0 | 11.0 | 94 | 142 | 9,032 |
| 12.0 | 12.0 | 101 | 151 | 10,325 |
| 13.0 | 13.0 | 101 | 151 | 12,902 |
| 14.0 | 14.0 | 108 | 160 | 16,108 |
| 16.0 | 16.0 | 120 | 178 | 23,915 |

| Solid Carbide Stub Drill-TiAlN Coated | | | | |
|---------------------------------------|--------|----|-----|------------------|
| Dia | SH.DIA | FL | OAL | PRICE RS./ PIECE |
| 1.0 | 1.0 | 6 | 26 | 928 |
| 1.5 | 1.5 | 9 | 32 | 997 |
| 2.0 | 2.0 | 12 | 38 | 1,140 |
| 2.5 | 2.5 | 14 | 43 | 1,140 |
| 3.0 | 3.0 | 16 | 46 | 1,276 |
| 3.5 | 3.5 | 20 | 52 | 1,316 |
| 4.0 | 4.0 | 22 | 55 | 1,620 |
| 4.5 | 4.5 | 24 | 58 | 1,733 |
| 5.0 | 5.0 | 26 | 62 | 1,986 |
| 5.5 | 5.5 | 28 | 66 | 2,298 |
| 6.0 | 6.0 | 28 | 66 | 2,391 |
| 6.5 | 6.5 | 31 | 70 | 2,568 |
| 7.0 | 7.0 | 34 | 74 | 2,811 |
| 7.5 | 7.5 | 34 | 74 | 3,069 |
| 8.0 | 8.0 | 37 | 79 | 3,460 |
| 8.5 | 8.5 | 37 | 79 | 3,791 |
| 9.0 | 9.0 | 40 | 84 | 4,060 |
| 9.5 | 9.5 | 40 | 84 | 4,637 |
| 10.0 | 10.0 | 43 | 89 | 5,320 |
| 10.5 | 10.5 | 43 | 89 | 5,946 |
| 11.0 | 11.0 | 47 | 95 | 7,809 |
| 12.0 | 12.0 | 51 | 102 | 7,809 |
| 13.0 | 13.0 | 51 | 103 | 11,683 |
| 14.0 | 14.0 | 54 | 107 | 11,683 |
| 16.0 | 16.0 | 58 | 115 | 17,354 |

- END MILL FOR 60HRC ON REQUEST
- END MILL WITH CORNER RADIUS & SPECIAL ON REQUEST.
- PRICES ARE SUBJECT TO REVISION WITHOUT ANY NOTICE.

SUGGESTED SPEED AND FEED DATA FOR SOLID CARBIDE ENDMILLS

Application : Slotting / Key way machining

| Material HRc Diameter | Carbon steel , Alloy Steel < HRc 28 | | Carbon steel , Alloy Steel HRc 28 - HRc 45 | | Stainless Steel and Super alloys | | Cast Iron | |
|-----------------------------|--|------------|---|------------|----------------------------------|------------|-----------|------------|
| | RPM | feed/tooth | RPM | feed/tooth | RPM | feed/tooth | RPM | feed/tooth |
| 2 | 6369 | 0.03 | 6369 | 0.024 | 6369 | 0.02 | 6369 | 0.044 |
| 3 | 4777 | 0.045 | 4777 | 0.036 | 4777 | 0.03 | 4777 | 0.066 |
| 4 | 3981 | 0.06 | 3981 | 0.048 | 3981 | 0.04 | 3981 | 0.088 |
| 5 | 3185 | 0.075 | 3185 | 0.06 | 3185 | 0.05 | 3185 | 0.11 |
| 6 | 2654 | 0.09 | 2654 | 0.072 | 2654 | 0.06 | 2654 | 0.132 |
| 8 | 1990 | 0.12 | 1990 | 0.096 | 1990 | 0.08 | 1990 | 0.176 |
| 10 | 1911 | 0.15 | 1911 | 0.12 | 1911 | 0.1 | 1911 | 0.22 |
| 12 | 1592 | 0.18 | 1592 | 0.144 | 1592 | 0.12 | 1592 | 0.264 |
| 14 | 1365 | 0.21 | 1365 | 0.168 | 1365 | 0.14 | 1365 | 0.308 |
| 16 | 1393 | 0.24 | 1393 | 0.192 | 1393 | 0.16 | 1393 | 0.352 |
| 18 | 1238 | 0.27 | 1238 | 0.216 | 1238 | 0.18 | 1238 | 0.396 |
| 20 | 1115 | 0.3 | 1115 | 0.24 | 1115 | 0.2 | 1115 | 0.44 |

- Reduce feed rate by around 30% in case of long types
- Increase speed and feed rate by around 25% in case of coated endmills

Application : End milling

| Material HRc Diameter | Carbon steel , Alloy Steel < HRc 28 | | Carbon steel , Alloy Steel HRc 28 - HRc 45 | | Stainless Steel and Super alloys | | Grey Cast Iron | |
|-----------------------------|--|------------|---|------------|----------------------------------|------------|----------------|------------|
| | RPM | feed/tooth | RPM | feed/tooth | RPM | feed/tooth | RPM | feed/tooth |
| 2 | 6369 | 0.04 | 6369 | 0.03 | 6369 | 0.024 | 6369 | 0.06 |
| 3 | 4777 | 0.06 | 4777 | 0.045 | 4777 | 0.036 | 4777 | 0.09 |
| 4 | 3981 | 0.08 | 3981 | 0.06 | 3981 | 0.048 | 3981 | 0.12 |
| 5 | 3185 | 0.1 | 3185 | 0.075 | 3185 | 0.06 | 3185 | 0.15 |
| 6 | 2654 | 0.12 | 2654 | 0.09 | 2654 | 0.072 | 2654 | 0.18 |
| 8 | 1990 | 0.16 | 1990 | 0.12 | 1990 | 0.096 | 1990 | 0.24 |
| 10 | 1911 | 0.2 | 1911 | 0.15 | 1911 | 0.12 | 1911 | 0.3 |
| 12 | 1592 | 0.24 | 1592 | 0.18 | 1592 | 0.144 | 1592 | 0.36 |
| 14 | 1365 | 0.28 | 1365 | 0.21 | 1365 | 0.168 | 1365 | 0.42 |
| 16 | 1393 | 0.32 | 1393 | 0.24 | 1393 | 0.192 | 1393 | 0.48 |
| 18 | 1238 | 0.36 | 1238 | 0.27 | 1238 | 0.216 | 1238 | 0.54 |
| 20 | 1115 | 0.4 | 1115 | 0.3 | 1115 | 0.24 | 1115 | 0.6 |

SUGGESTED SPEED AND FEED DATA FOR SOLID CARBIDE DRILLS

Application : Drilling

| Material HRc Diameter | Carbon steel , Alloy Steel < HRc 28 | | Carbon steel , Alloy Steel HRc 28 - HRc 45 | | Stainless Steel and Super alloys | | Cast Iron | |
|-----------------------------|--|--------|---|--------|----------------------------------|--------|-----------|--------|
| | RPM | mm/rev | RPM | mm/rev | RPM | mm/rev | RPM | mm/rev |
| 2 | 5100 | 0.04 | 5100 | 0.03 | 4900 | 0.02 | 5100 | 0.06 |
| 3 | 4246 | 0.045 | 4246 | 0.036 | 4246 | 0.03 | 4246 | 0.066 |
| 4 | 3583 | 0.06 | 3583 | 0.048 | 3583 | 0.04 | 3583 | 0.088 |
| 5 | 2866 | 0.075 | 2866 | 0.06 | 2866 | 0.05 | 2866 | 0.11 |
| 6 | 2389 | 0.09 | 2389 | 0.072 | 2389 | 0.06 | 2389 | 0.132 |
| 8 | 1990 | 0.12 | 1990 | 0.096 | 1990 | 0.08 | 1990 | 0.176 |
| 10 | 1592 | 0.15 | 1592 | 0.12 | 1592 | 0.10 | 1592 | 0.22 |
| 12 | 1327 | 0.18 | 1327 | 0.144 | 1327 | 0.12 | 1327 | 0.264 |
| 14 | 1251 | 0.21 | 1251 | 0.168 | 1251 | 0.14 | 1251 | 0.308 |
| 16 | 1194 | 0.24 | 1194 | 0.192 | 1194 | 0.16 | 1194 | 0.352 |
| 18 | 1062 | 0.27 | 1062 | 0.216 | 1062 | 0.18 | 1062 | 0.396 |
| 20 | 1115 | 0.3 | 1115 | 0.24 | 1115 | 0.2 | 1115 | 0.44 |

- Increase speed and feed rate by around 25% in case of coated endmills
- Reduce feed rate by around 30% in case of long types
- Increase speed and feed rate by around 25% in case of coated Drills

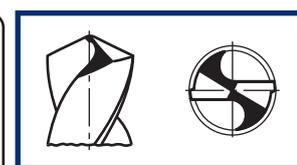
Technical Formulae

Cutting speed. = $\pi \times \text{Dia of Tool} \times \text{RPM} / 1000$

Feed in mm per revolution. = feed in mm per tooth X no. of flutes

Feed in mm per min. = RPM X feed in mm per revolution.

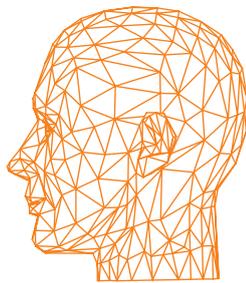
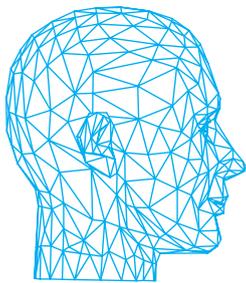
Cutting time. = Cutting length / feed in mm per min



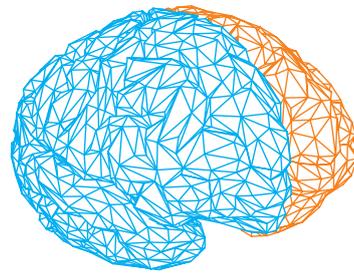
Split Point Geometry

WE MAKE THE SHIFT

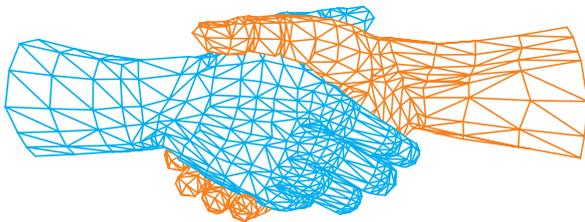
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THROUGH ENGINEERING



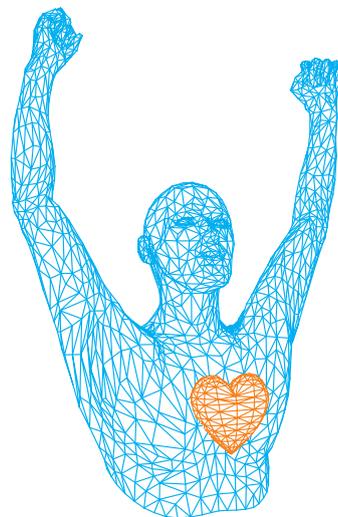
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