



The economic tooling solution for general purpose machining applications

COMING SOON!



- ✓ Added coolant features come standard
- ✓ AT3 or better taper accuracy
- ✓ CAT tapers to ANSI B5.50

STM Premium Collet Chucks

CAT40 Balanced to G2.5 / 20,000 rpm
CAT50 Balanced to G2.5 / 15,000 rpm

STM Premium End Mill Holders

CAT40 Balanced to G2.5 / 8,000 rpm
CAT50 Balanced to G2.5 / 6,000 rpm

ER 11 Rubber Sealed Collets

- Sealed for coolant through applications
- Pressure resistance tested to 500 psi
- Size range:
3/16" - 17/64"
4.0 - 7.0 mm



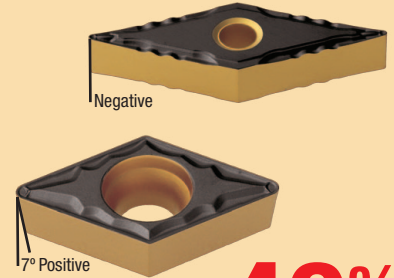
While Supplies Last

CLEARANCE:
All Rubber Sealed ER 11 Collets



| Inch | | | | Metric | | | |
|-------|----------|---------------|---------|--------|----------|---------------|---------|
| Size | Code No. | Reg. Price \$ | SALE \$ | Size | Code No. | Reg. Price \$ | SALE \$ |
| 3/16 | 337622P | 50.41 | 20.16 | 4.0 | 337634P | 34.10 | 13.64 |
| 13/64 | 337624P | 50.41 | 20.16 | 4.5 | 337636P | 50.41 | 20.16 |
| 7/32 | 337626P | 50.41 | 20.16 | 5.0 | 337638P | 50.41 | 20.16 |
| 15/64 | 337628P | 50.41 | 20.16 | 5.5 | 337640P | 50.41 | 20.16 |
| 1/4 | 337630P | 50.41 | 20.16 | 6.0 | 337642P | 50.41 | 20.16 |
| 17/64 | 337632P | 50.41 | 20.16 | 6.5 | 337644P | 50.41 | 20.16 |
| | | | | 7.0 | 337646P | 50.41 | 20.16 |

Carbide Inserts CVD Coated Turning Grades PT15C/PT25C



See page 5

40% off!

CAT 40/50 Balanceable Shrink Fit Holders



See page 9

Starting At
\$222²¹

Yellow Ring HSSE-V3 Spiral Point & Spiral Flute Taps



See page 3

Starting At
\$7²⁸

Digital Calipers



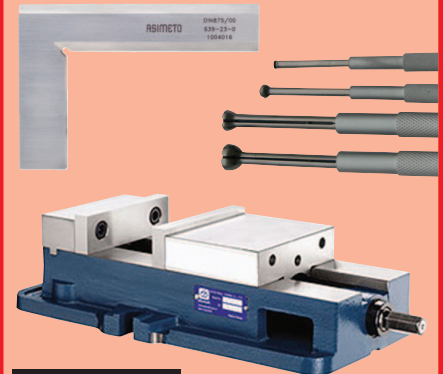
ASIMETO

See page 6

Starting At
\$46⁰¹

Warehouse Overstock

Wide Range Of Products Marked Down To Move



See pages 9-11

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Precision Tools Pages 6-7

Machine Tool Accessories Pages 8, 12

Warehouse Overstock..... Pages 9-11

HSS Prentice Drills



- 1/2" shank
- 3" cutting length
- 6" overall length
- Flatted shank



| Size | Decimal Equivalent | Code No. | Reg. Price \$ | SALE \$ |
|---------|--------------------|----------|---------------|--------------|
| 33/64" | 0.5156" | 107500 | 13.32 | 7.99 |
| 17/32" | 0.5312" | 107502 | 13.20 | 7.92 |
| 35/64" | 0.5469" | 107504 | 13.32 | 7.99 |
| 9/16" | 0.5625" | 107506 | 15.25 | 9.15 |
| 37/64" | 0.5781" | 107508 | 16.01 | 9.61 |
| 19/32" | 0.5937" | 107510 | 14.16 | 8.50 |
| 39/64" | 0.6094" | 107512 | 15.60 | 9.36 |
| 5/8" | 0.6250" | 107514 | 15.63 | 9.38 |
| 41/64" | 0.6406" | 107516 | 18.27 | 10.96 |
| 21/32" | 0.6562" | 107518 | 17.35 | 10.41 |
| 43/64" | 0.6719" | 107520 | 16.55 | 9.93 |
| 11/16" | 0.6875" | 107522 | 16.89 | 10.13 |
| 45/64" | 0.7031" | 107524 | 18.67 | 11.20 |
| 23/32" | 0.7187" | 107526 | 18.55 | 11.13 |
| 47/64" | 0.7344" | 107528 | 19.62 | 11.77 |
| 3/4" | 0.7500" | 107530 | 20.49 | 12.29 |
| 49/64" | 0.7656" | 107532 | 21.57 | 12.94 |
| 25/32" | 0.7812" | 107534 | 20.42 | 12.25 |
| 51/64" | 0.7969" | 107536 | 22.06 | 13.24 |
| 13/16" | 0.8125" | 107538 | 20.04 | 12.02 |
| 53/64" | 0.8281" | 107540 | 23.94 | 14.36 |
| 27/32" | 0.8437" | 107542 | 25.31 | 15.19 |
| 55/64" | 0.8594" | 107544 | 24.30 | 14.58 |
| 7/8" | 0.8750" | 107546 | 26.29 | 15.77 |
| 57/64" | 0.8906" | 107548 | 26.83 | 16.10 |
| 29/32" | 0.9062" | 107550 | 27.37 | 16.42 |
| 59/64" | 0.9219" | 107552 | 27.38 | 16.43 |
| 15/16" | 0.9375" | 107554 | 28.08 | 16.85 |
| 61/64" | 0.9531" | 107556 | 31.18 | 18.71 |
| 31/32" | 0.9687" | 107558 | 33.23 | 19.94 |
| 63/64" | 0.9844" | 107560 | 33.01 | 19.81 |
| 1" | 1.0000" | 107562 | 32.78 | 19.67 |
| 1-1/64" | 1.0156" | 107564 | 38.17 | 22.90 |
| 1-1/32" | 1.0312" | 107566 | 45.48 | 27.29 |
| 1-3/64" | 1.0469" | 107568 | 39.16 | 23.50 |
| 1-1/16" | 1.0625" | 107570 | 40.20 | 24.12 |

Taper Length Drills - Fractional Sizes

Taper length drills are designed for general purpose drilling where longer length is required.



| Size (in.) | Decimal Equiv. (in.) | Flute Length | Overall Length | HSS Code No. | Reg. Price \$ | SALE \$ |
|------------|----------------------|--------------|----------------|--------------|---------------|-------------|
| 1/64 | 0.0156 | 5/16 | 1-1/2 | 116792 | 11.99 | 7.19 |
| 1/32 | 0.0312 | 3/4 | 2 | 116793 | 9.48 | 5.69 |
| 3/64 | 0.0469 | 1-1/8 | 2-1/4 | 116794 | 4.54 | 2.72 |
| 1/16 | 0.0625 | 1-3/4 | 3 | 116795 | 4.70 | 2.82 |
| 5/64 | 0.0781 | 2 | 3-3/4 | 116796 | 5.49 | 3.29 |
| 3/32 | 0.0938 | 2-1/4 | 4-1/4 | 116797 | 6.65 | 3.99 |
| 7/64 | 0.1094 | 2-1/2 | 4-5/8 | 116798 | 8.20 | 4.92 |
| 1/8 | 0.1250 | 2-3/4 | 5-1/8 | 116799 | 8.47 | 5.08 |
| 9/64 | 0.1406 | 3 | 5-3/8 | 116800 | 11.21 | 6.73 |
| 5/32 | 0.1562 | 3 | 5-3/8 | 116801 | 10.17 | 6.10 |
| 11/64 | 0.1719 | 3-3/8 | 5-3/4 | 116802 | 11.99 | 7.19 |
| 3/16 | 0.1875 | 3-3/8 | 5-3/4 | 116803 | 10.17 | 6.10 |
| 13/64 | 0.2031 | 3-5/8 | 6 | 116804 | 13.73 | 8.24 |
| 7/32 | 0.2188 | 3-5/8 | 6 | 116805 | 14.53 | 8.72 |

Full size range on promotion. See page B26 of our Catalogue

Full size range on promotion. See page B26 of our Catalogue

2 Flute Long Length Carbide End Mills



Long Length End mills combine added flute and overall length for greater reach when deep slotting or milling. These end mills have the capability to mill much thicker material in a single pass, thereby eliminating the interrupted cut that may be present with regular length end mills.



| Cutting Dia. | Shank Dia. | Flute Length | Overall Length | Bright Code No. | Reg. Price \$ | SALE \$ | TiAlN Code No. | Reg. Price \$ | SALE \$ |
|--------------|------------|--------------|----------------|-----------------|---------------|---------------|----------------|---------------|---------------|
| 1/8 | 1/8 | 3/4 | 2-1/4 | 102961 | 24.97 | 14.98 | 102902 | 28.98 | 17.39 |
| 3/16 | 3/16 | 3/4 | 2-1/4 | 102962 | 27.55 | 16.53 | 102904 | 32.66 | 19.60 |
| 1/4 | 1/4 | 1-1/8 | 3 | 102963 | 31.90 | 19.14 | 102906 | 38.68 | 19.34 |
| 5/16 | 5/16 | 1-1/8 | 3 | 102964 | 39.39 | 19.70 | 102908 | 49.51 | 29.71 |
| 3/8 | 3/8 | 1-1/8 | 3 | 102965 | 44.30 | 22.15 | 102910 | 54.44 | 32.66 |
| 7/16 | 7/16 | 2 | 4 | 102966 | 66.96 | 40.18 | 102912 | 81.85 | 49.11 |
| 1/2 | 1/2 | 2 | 4 | 102967 | 71.22 | 42.73 | 102914 | 86.11 | 51.67 |
| 5/8 | 5/8 | 2-1/4 | 5 | 102968 | 146.78 | 102.75 | 102916 | 171.50 | 120.05 |
| 3/4 | 3/4 | 2-1/4 | 5 | 102969 | 233.82 | 163.67 | 102918 | 262.44 | 183.71 |
| 1 | 1 | 2-1/4 | 5 | 102970 | 397.52 | 278.26 | - | - | - |

4 Flute Long Length Carbide End Mills



Long Length End Mills combine added flute and overall length for greater reach when deep slotting or milling. These end Mills have the capability to mill thicker material in one pass, eliminating the interrupted cut that may be present with regular length end mills.



| Cutting Dia. | Shank Dia. | Flute Length | Overall Length | Bright Code No. | Reg. Price \$ | SALE \$ | TiAlN Code No. | Reg. Price \$ | SALE \$ |
|--------------|------------|--------------|----------------|-----------------|---------------|---------------|----------------|---------------|---------------|
| 1/8 | 1/8 | 3/4 | 2-1/4 | 102981 | 24.97 | 14.98 | 102922 | 28.98 | 17.39 |
| 3/16 | 3/16 | 3/4 | 2-1/4 | 102982 | 27.55 | 16.53 | 102924 | 32.66 | 19.60 |
| 1/4 | 1/4 | 1-1/8 | 3 | 102983 | 31.90 | 19.14 | 102926 | 38.68 | 19.34 |
| 5/16 | 5/16 | 1-1/8 | 3 | 102984 | 39.39 | 19.70 | 102928 | 49.51 | 29.71 |
| 3/8 | 3/8 | 1-1/8 | 3 | 102985 | 44.30 | 22.15 | 102930 | 54.44 | 32.66 |
| 7/16 | 7/16 | 2 | 4 | 102986 | 66.96 | 40.18 | 102932 | 81.85 | 49.11 |
| 1/2 | 1/2 | 2 | 4 | 102987 | 71.22 | 42.73 | 102934 | 86.11 | 51.67 |
| 5/8 | 5/8 | 2-1/4 | 5 | 102988 | 146.78 | 102.75 | 102936 | 171.50 | 120.05 |
| 3/4 | 3/4 | 2-1/4 | 5 | 102989 | 233.82 | 163.67 | 102938 | 262.44 | 183.71 |
| 1 | 1 | 2-1/4 | 5 | 102990 | 397.52 | 278.26 | 102940 | 434.64 | 304.25 |

CUTTING TOOLS

Yellow Ring HSSE-V3 Spiral Point Taps



HSSE-V3% Vanadium

- Superior performance in hardened tool steels such as 4140, 4340, H13, D2.
- Up to 35 HRC
- Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.



- 4.5 Pitch lead (Intermediate)



| Tap | Overall Length (in.) | Thread Length (in.) | Code No. | Reg. Price \$ | SALE \$ |
|----------|----------------------|---------------------|----------|---------------|---------------|
| 2-56 | 1-3/4 | 0.433 | 122550 | 22.05 | 13.23 |
| 3-48 | 1-13/16 | 0.512 | 122552 | 17.64 | 10.58 |
| 4-40 | 1-7/8 | 0.433 | 123296 | 14.55 | 8.73 |
| 4-40 | 1-7/8 | 0.433 | 122554 | 14.55 | 8.73 |
| 6-32 | 2 | 0.512 | 123300 | 12.13 | 7.28 |
| 6-40 | 2 | 0.512 | 123334 | 12.13 | 7.28 |
| 8-32 | 2-1/8 | 0.512 | 123302 | 12.13 | 7.28 |
| 10-24 | 2-3/8 | 0.512 | 123304 | 12.13 | 7.28 |
| 12-24 | 2-3/8 | 0.512 | 123306 | 12.13 | 7.28 |
| 1/4-20 | 2-1/2 | 0.630 | 123308 | 13.34 | 8.00 |
| 1/4-28 | 2-1/2 | 0.630 | 123342 | 13.34 | 8.00 |
| 5/16-18 | 2-23/32 | 0.748 | 123310 | 15.00 | 9.00 |
| 5/16-24 | 2-23/32 | 0.748 | 123344 | 15.00 | 9.00 |
| 3/8-16 | 2-15/16 | 0.748 | 123312 | 16.97 | 10.18 |
| 3/8-24 | 2-15/16 | 0.748 | 123346 | 16.97 | 10.18 |
| 7/16-14 | 3-5/32 | 0.866 | 123314 | 22.05 | 13.23 |
| 7/16-20 | 3-5/32 | 0.866 | 123348 | 22.05 | 13.23 |
| 1/2-13 | 3-3/8 | 0.945 | 123316 | 25.47 | 15.28 |
| 1/2-20 | 3-3/8 | 0.945 | 123350 | 25.47 | 15.28 |
| 5/8-11 | 3-13/16 | 1.102 | 123318 | 46.30 | 27.78 |
| 5/8-18 | 3-13/16 | 1.102 | 123352 | 46.30 | 27.78 |
| 3/4-10 | 4-1/4 | 1.220 | 123320 | 72.54 | 43.52 |
| 3/4-16 | 4-1/4 | 1.220 | 123353 | 72.54 | 43.52 |
| 7/8-9 | 4-11/16 | 1.339 | 123321 | 103.84 | 62.30 |
| 7/8-14 | 4-11/16 | 1.339 | 123359 | 113.43 | 68.06 |
| 1-8 | 5-1/8 | 1.496 | 123323 | 138.35 | 83.01 |
| 1-12 | 5-1/8 | 1.496 | 123361 | 151.03 | 90.62 |
| 1-14 | 5-1/8 | 1.496 | 123360 | 151.03 | 90.62 |
| 1-1/8-7 | 5-7/16 | 1.732 | 123364 | 232.82 | 139.69 |
| 1-1/8-12 | 5-7/16 | 1.732 | 123365 | 247.71 | 148.63 |
| 1-1/4-7 | 5-3/4 | 1.732 | 123367 | 305.48 | 183.29 |
| 1-1/4-12 | 5-3/4 | 1.732 | 123369 | 309.66 | 185.80 |
| 1-3/8-6 | 6-1/16 | 2.000 | 123371 | 384.85 | 230.91 |
| 1-3/8-12 | 6-1/16 | 2.000 | 123373 | 387.71 | 232.63 |
| 1-1/2-6 | 6-3/8 | 2.000 | 123363 | 442.50 | 309.75 |
| 1-1/2-12 | 6-3/8 | 2.000 | 123375 | 452.20 | 316.54 |

Yellow Ring HSSE-V3 Spiral Flute Taps



HSSE-V3% Vanadium

- Superior performance in hardened tool steels such as 4140, 4340, H13, D2.
- Up to 35 HRC
- Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.



- 2.5 Pitch lead (Bottoming)



| Tap | Overall Length (in.) | Thread Length (in.) | Code No. | Reg. Price \$ | SALE \$ |
|----------|----------------------|---------------------|----------|---------------|---------------|
| 2-56 | 1-3/4 | 0.433 | 122500 | 33.07 | 19.84 |
| 3-48 | 1-13/16 | 0.512 | 122502 | 26.57 | 15.94 |
| 4-40 | 1-7/8 | 0.250 | 123362 | 21.83 | 13.10 |
| 4-40 | 1-7/8 | 0.250 | 122506 | 21.83 | 13.10 |
| 6-32 | 2 | 0.313 | 123366 | 17.75 | 10.65 |
| 8-32 | 2-1/8 | 0.313 | 123368 | 17.75 | 10.65 |
| 10-24 | 2-3/8 | 0.417 | 123370 | 17.75 | 10.65 |
| 10-32 | 2-3/8 | 0.417 | 123382 | 17.75 | 10.65 |
| 1/4-20 | 2-1/2 | 0.500 | 123372 | 19.18 | 11.51 |
| 1/4-28 | 2-1/2 | 0.500 | 123384 | 19.18 | 11.51 |
| 5/16-18 | 2-23/32 | 0.556 | 123374 | 23.59 | 14.15 |
| 5/16-24 | 2-23/32 | 0.556 | 123386 | 23.59 | 14.15 |
| 3/8-16 | 2-15/16 | 0.625 | 123376 | 27.45 | 16.47 |
| 3/8-24 | 2-15/16 | 0.625 | 123388 | 27.45 | 16.47 |
| 7/16-14 | 3-5/32 | 0.714 | 123378 | 41.01 | 24.61 |
| 7/16-20 | 3-5/32 | 0.714 | 123389 | 41.01 | 24.61 |
| 1/2-13 | 3-3/8 | 0.769 | 123380 | 48.29 | 28.97 |
| 1/2-20 | 3-3/8 | 0.769 | 123392 | 48.29 | 28.97 |
| 5/8-11 | 3-13/16 | 0.909 | 123452 | 85.10 | 51.06 |
| 5/8-18 | 3-13/16 | 0.909 | 123462 | 85.10 | 51.06 |
| 3/4-10 | 4-1/4 | 1.000 | 123454 | 109.47 | 65.68 |
| 3/4-16 | 4-1/4 | 1.000 | 123464 | 109.47 | 65.68 |
| 7/8-9 | 4-11/16 | 1.111 | 123466 | 152.25 | 91.35 |
| 7/8-14 | 4-11/16 | 1.111 | 123468 | 159.41 | 95.65 |
| 1-8 | 5-1/8 | 1.250 | 123469 | 203.17 | 121.90 |
| 1-12 | 5-1/8 | 1.250 | 123470 | 213.31 | 127.99 |
| 1-14 | 5-1/8 | 1.250 | 123465 | 211.44 | 126.86 |
| 1-1/8-7 | 5-7/16 | 1.429 | 123471 | 295.99 | 177.59 |
| 1-1/8-12 | 5-7/16 | 1.429 | 123472 | 314.95 | 188.97 |
| 1-1/4-7 | 5-3/4 | 1.429 | 123473 | 389.37 | 233.62 |
| 1-1/4-12 | 5-3/4 | 1.429 | 123474 | 394.33 | 236.60 |
| 1-3/8-6 | 6-1/16 | 1.667 | 123475 | 461.91 | 323.34 |
| 1-3/8-12 | 6-1/16 | 1.667 | 123476 | 464.88 | 325.42 |
| 1-1/2-6 | 6-3/8 | 1.667 | 123477 | 531.24 | 371.87 |
| 1-1/2-12 | 6-3/8 | 1.667 | 123478 | 542.82 | 379.97 |

HSSE-V3 ANSI SHANK Yellow Ring

- For tough materials including:
- :: HIGH CARBON STEEL
 - :: HIGH ALLOY
 - :: TITANIUM
 - :: ALUMINUM



Cutting Speed (fpm)

| | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|---------------------|----|----|----|----|----|----|----|----|----|-----|
| Tool Steels | | | | | | | | | | |
| Medium Carbon | | | | | | | | | | |
| Alloyed High Carbon | | | | | | | | | | |
| High Strength | | | | | | | | | | |
| Titanium | | | | | | | | | | |
| Aluminum | | | | | | | | | | |

Hardness (hrc)

| | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
|---------------------|---|---|----|----|----|----|----|----|----|
| Tool Steels | | | | | | | | | |
| Medium Carbon | | | | | | | | | |
| Alloyed High Carbon | | | | | | | | | |
| High Strength | | | | | | | | | |
| Titanium | | | | | | | | | |
| Aluminum | | | | | | | | | |

Adjustable Tap Wrenches



| Tool No. | For Tap Size | Square | Length (mm) | Code No. | Reg. Price \$ | SALE \$ |
|----------|----------------------------|---------|-------------|----------|---------------|--------------|
| 130/0 | M1-8 1/16-1/4 | 2.0-5.5 | 130 | 113717 | 23.36 | 14.02 |
| 130/1.5 | M1-10 1/16-3/8 NPT-1/8 | 2.0-6.3 | 176 | 113794 | 25.29 | 15.17 |
| 130/2 | M4-12 5/32-1/2 NPT-1/8 | 3.0-9.0 | 280 | 113725 | 36.70 | 22.02 |
| 130/3 | M5-20 7/32-3/4 NPT-1/8-1/2 | 4.9-12 | 380 | 113730 | 56.62 | 33.97 |
| 130/4 | M11-27 7/16-1 NPT-1/4-3/4 | 5.5-16 | 500 | 113735 | 92.25 | 55.35 |
| 130/5L | M13-32 1/2-1-1/4 NPT-1/4-1 | 7-20 | 700 | 113740 | 147.68 | 88.61 |

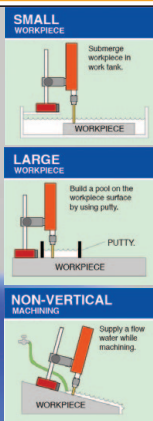
Die Stocks



| Tool No. | (mm) | (in) | Length (mm) | Code No. | Reg. Price \$ | SALE \$ |
|----------|--------------|-------------|-------------|----------|---------------|--------------|
| 13/16 | 20.6 x 6.35 | 13/16 x 1/4 | 200 | 113750 | 17.12 | 10.27 |
| 1 | 25.4 x 9.5 | 1 x 3/8 | 224 | 113755 | 17.87 | 10.72 |
| 1 1/2 | 38.1 x 121.7 | 1-1/2 x 1/2 | 315 | 113760 | 29.39 | 17.63 |
| 2 | 50.8 x 15.9 | 2 x 5/8 | 560 | 113765 | 65.23 | 39.14 |



The quick solution to a broken tap. Fast, low cost, and high performance!

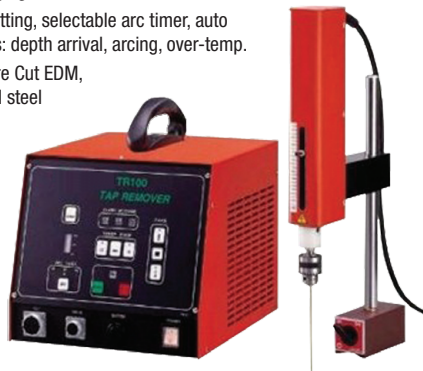


TR100 EDM Broken Tap Remover

- Light, small, portable, compact design
- High speed & high efficiency
- Simple operation allows easy removal of broken tap
- Dielectric: Uses ordinary tap water as the dielectric medium
- Electrode: Using any brass bar as electrode
- CSA Approved
- Flexibility: Machining easily even on a large workpiece
- No damage: Remove taps without damaging the threads
- Complete functions: Auto feed, depth setting, selectable arc timer, auto retract, workhead swivel alarm messages: depth arrival, arcing, over-temp.
- More applications: Starting holes for Wire Cut EDM, cutting Tungsten Carbide or any hardened steel



Code No.: 901176
Reg. Price: \$7,199.46



LIMITED QUANTITIES

Call for pricing

Adjustable Tap Wrenches "T" Ratchet Type



| Tool No. | For Tap Size | Length (mm) | Code No. | Reg. Price \$ | SALE \$ |
|----------|------------------|-------------|----------|---------------|--------------|
| 100/1 | M3-10 1/8 - 3/8 | 85 | 113700 | 52.96 | 31.78 |
| 100/2 | M5-12 7/32 - 1/2 | 100 | 113705 | 65.23 | 39.14 |
| 100/10 | M3-10 1/8-3/8 | 250 | 113710 | 84.93 | 50.96 |
| 100/20 | M5-12 7/32 - 1/2 | 300 | 113715 | 98.28 | 58.97 |

SI-SCLCR Master Boring Bar Kit



Consists of:

- 1 - 5/8" ø B/Bar, SI-SCLCR 10-3, 8" OAL (#145925)
- 1 - 3/4" ø B/Bar, SI-SCLCR 12-3, 10" OAL (#145926)
- 1 - 1" ø B/Bar, SI-SCLCR 16-3, 12" OAL (#145927)
- 10 - CCMT32.51-F2P PT25C inserts (#149220)
- 1 - wrench (#146940)



| Application | Material | Code No. | Reg. Price \$ | SALE \$ |
|-------------|----------|----------|---------------|---------------|
| Medium | Steel | 149844 | 531.85 | 345.70 |

PRO Part-Off Kits



Consists of:

- 1 - PP-B Part-Off Blade
- 10 - SP 300/400 Inserts (Coated)
- 1 - SW15S Wrench



| Kit Contents | Insert | Code No. | Reg. Price \$ | SALE \$ |
|--------------------------------|-------------|----------|---------------|---------------|
| PP-B326S 1" Blade (146232) | SP300 PT30C | 149835 | 387.99 | 252.19 |
| PP-B332S 1-1/4" Blade (146898) | SP300 PT30C | 149836 | 387.99 | 252.19 |
| PP-B432S 1-1/4" Blade (146454) | SP400 PT30C | 147441 | 394.19 | 256.22 |

MCLNR Turning Kits



Consists of:

- 1 - MCLNR Toolholder
- 10 - CNMG/A 432 Inserts (Coated)



| Application | Contents | Code No. | Reg. Price \$ | SALE \$ |
|--------------------|--------------------------------|----------|---------------|---------------|
| Finishing (Steel) | 1 - MCLNR16-4D (145828) | 149348 | 352.06 | 228.84 |
| | 10 - CNMG432-F2 PT15C (149390) | | | |
| Med/Finish (Steel) | 1 - MCLNR16-4D (145828) | 149374 | 355.16 | 230.85 |
| | 10 - CNMG432-MM PT25C (149256) | | | |
| Medium (Cast Iron) | 1 - MCLNR16-4D (145828) | 148804 | 465.17 | 302.36 |
| | 10 - CNMA432 KT10C (147473) | | | |

INDEXABLE CUTTING TOOLS

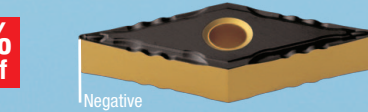
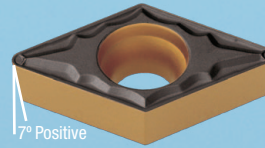


NEW! CARBIDE INSERTS

Positive & Negative
CVD Coated Turning Grades

PT15C / PT25C

All inserts in our Carbide Inserts brochure (pages 2-8) are on sale. Scan the QR code with the camera on your phone for more information and to see all inserts. *Does not include Kits.



40% off

CNMG-M/M1

Starting at **\$9.22**

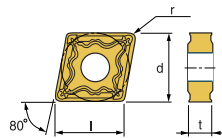


- USE Medium
- Recommendation

M $d = 0.04\text{--}0.2\text{inch}$
 $f = 0.004\text{--}0.02\text{ipr}$

M1 $d = 0.035\text{--}0.2\text{inch}$
 $f = 0.002\text{--}0.012\text{ipr}$

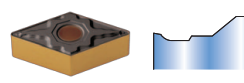
- Wide available chip control range from medium-finishing to medium-roughing.
- Suitable chip breaker for CNC machining



| Designation | ISO | PT15C | PT25C | l | d | t | r | Holders |
|-------------|--------|--------|--------|-------|-----|------|------|---|
| CNMG 431-M | 120404 | | 149394 | 0.508 | 1/2 | 3/16 | 1/64 | Turning DCLNR/L MCKNR/L MCLNR/L MCRNR/L Boring MCLNR/L PCLNR/L |
| CNMG 431-M1 | 120404 | | 149251 | 0.508 | 1/2 | 3/16 | 1/64 | |
| CNMG 432-M1 | 120408 | 149393 | 149377 | 0.508 | 1/2 | 3/16 | 1/32 | |
| CNMG 432-M | 120408 | | 149231 | 0.508 | 1/2 | 3/16 | 1/32 | |
| CNMG 433-M1 | 120412 | 149555 | | 0.508 | 1/2 | 3/16 | 3/64 | |

DNMG-M/M1

Starting at **\$11.30**

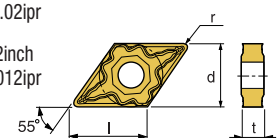


- USE Medium
- Recommendation

M $d = 0.04\text{--}0.2\text{inch}$
 $f = 0.004\text{--}0.02\text{ipr}$

M1 $d = 0.035\text{--}0.2\text{inch}$
 $f = 0.002\text{--}0.012\text{ipr}$

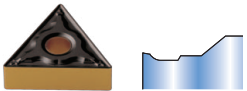
- Wide available chip control range from medium-finishing to medium-roughing.
- Suitable chip breaker for CNC machining



| Designation | ISO | PT15C | PT25C | l | d | t | r | Holders |
|-------------|--------|--------|--------|-------|-----|------|------|---|
| DNMG 431-M | 150404 | | 149261 | 0.610 | 1/2 | 3/16 | 1/64 | Turning DDJNR/L MDJNR/L Boring PDSNR/L PDUNR/L |
| DNMG 432-M | 150408 | 149334 | 149233 | 0.610 | 1/2 | 3/16 | 1/32 | |
| DNMG 441-M | 150604 | 149441 | 149445 | 0.610 | 1/2 | 1/4 | 1/64 | |
| DNMG 431-M1 | 150404 | 149439 | | 0.610 | 1/2 | 3/16 | 1/64 | |
| DNMG 432-M1 | 150408 | | 149243 | 0.610 | 1/2 | 3/16 | 1/32 | |

TNMG-M/M1

Starting at **\$8.06**

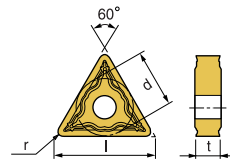


- USE Medium
- Recommendation

M $d = 0.04\text{--}0.2\text{inch}$
 $f = 0.004\text{--}0.02\text{ipr}$

M1 $d = 0.035\text{--}0.2\text{inch}$
 $f = 0.002\text{--}0.012\text{ipr}$

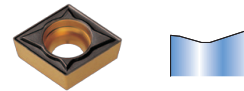
- Wide available chip control range from medium-finishing to medium-roughing.
- Suitable chip breaker for CNC machining



| Designation | ISO | PT15C | PT25C | l | d | t | r | Holders |
|-------------|--------|--------|--------|-------|-----|------|------|--|
| TNMG 331-M1 | 160404 | | 149259 | 0.650 | 3/8 | 3/16 | 1/64 | Turning DTJNR/L MTCNN MTFNR/L MTENN MTGNR/L MTJNR/L Boring MTFNR MTUNR PTFNR/L |
| TNMG 431-M | 220404 | | 149240 | 0.886 | 1/2 | 3/16 | 1/64 | |
| TNMG 432-M | 220408 | 149449 | 149228 | 0.886 | 1/2 | 3/16 | 1/32 | |
| TNMG 432-M1 | 220408 | | 149278 | 0.886 | 1/2 | 3/16 | 1/32 | |
| TNMG 433-M1 | 220412 | | 149288 | 0.886 | 1/2 | 3/16 | 3/64 | |

CCMT-F3P

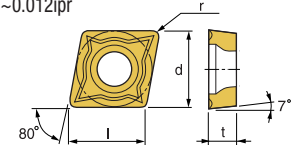
Starting at **\$7.59**



- USE Medium
- Recommendation

F3P $d = 0.04\text{--}0.12\text{inch}$
 $f = 0.004\text{--}0.012\text{ipr}$

- Suitable for intermittent cutting and cast iron machining.
- Good surface finish due to low cutting force.
- Suitable for both boring and outer diameter turning.



| Designation | ISO | PT15C | PT25C | l | d | t | r | Holders |
|----------------|--------|-------|--------|-------|-----|------|------|---|
| CCMT 21.51-F3P | 060204 | | 149241 | 0.256 | 1/4 | 3/32 | 1/64 | Turning SCACR/L Boring SCLCR/L |
| CCMT 32.51-F3P | 09T304 | | 149230 | 0.382 | 3/8 | 5/32 | 1/64 | |
| CCMT 32.52-F3P | 09T308 | | 149242 | 0.382 | 3/8 | 5/32 | 1/32 | |
| CCMT 431-F3P | 120404 | | 149262 | 0.508 | 1/2 | 3/16 | 1/64 | |
| CCMT 432-F3P | 120408 | | 149287 | 0.508 | 1/2 | 3/16 | 1/32 | |

Dial Bore Gauges

- Graduation: 0.0001"
- Fixed measuring points made of steel
- Movable probe pin with carbide ball



ASIMETO

| Range | No. Anvils | No. Spacers | No. Sub-Anvils | Probe Depth | Code No. | Reg. Price \$ | SALE \$ |
|-----------|------------|-------------|----------------|-------------|----------|---------------|---------------|
| Inch | | | | | | | |
| 0.7"-1.5" | 10 pcs | 2 | - | 6" | 7483211 | 259.75 | 181.83 |
| 2.0"-6.0" | 11 pcs | 4 | 1 | 6" | 7483311 | 247.61 | 173.33 |

Digital Calipers

- Resolution 0.0005" / 0.01mm
- Extra large LCD readout
- The origin position is retained through the on/off cycle
- Inch/Metric conversion



ASIMETO

| Range | Accuracy | Code No. | Reg. Price \$ | SALE \$ |
|---------------|------------------|----------|---------------|---------------|
| 0-6"/0-150mm | ±0.001"/±0.02mm | 7307065 | 76.69 | 46.01 |
| 0-8"/0-200mm | ±0.0015"/±0.03mm | 7307085 | 113.45 | 68.07 |
| 0-12"/0-300mm | ±0.0015"/±0.03mm | 7307125 | 169.99 | 118.99 |

Impact Hardness Tester

- Used for determining the hardness of ferrous and non-ferrous metals
- Hardness is displayed in an "L" value that can be converted into Brinell, Rockwell, Vickers, and Shore Hardness.

Specifications:

- Range: 330-890HL
- Testing direction: Arbitrary
- Mass of impact body: 5.5g
- Impact capacity: 11 Nmm
- Power: DC 6.0V
- Diameter of carbide ball: 3mm



ASIMETO

| Description | Code No. | Reg. Price \$ | SALE \$ |
|------------------------|----------|---------------|-----------------|
| Impact Hardness Tester | 7640171 | 1,995.31 | 1,396.72 |

Digital Protractors - Level Type

- This protractor provides an immediate digital reading of any angle in a full circle with 0°-90°-0°-90°-0° readings.
- ABS/ZERO button allows two measuring modes, Standard and Alternate Reference
- Four 90° quadrants for display purposes
- HOLD button for freezing a reading in an unreadable position
- V-grooves on top and bottom for use on curved surfaces
- 7490162 has a magnet in the base, helpful in fixing



ASIMETO

| Range | Resolution | Accuracy | Code No. | Reg. Price \$ | SALE \$ |
|-------|------------|----------|----------|---------------|---------------|
| 360° | 0.1° | ±0.1° | 7490160 | 231.68 | 162.18 |
| 360° | 0.1° | ±0.1° | 7490162* | 195.85 | 137.10 |

*magnetic base

Centering Indicator

- Provides a simplified method of centering a work piece or fixture on horizontal for vertical machines, internal or external diameters. Face of indicator remains stationary in any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the machine table
- Shank Dia.: 3/8" / 10mm
- Operating speed not to exceed 800rpm
- Range:
Internal: 5/32" - 12" / 4 - 300mm
External: Up to 12" / 300mm
- Comes with calibration certificate

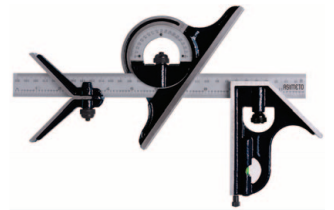


ASIMETO

| Dial Range | Graduation | Accuracy | Stem Dia. | Code No. | Reg. Price \$ | SALE \$ |
|------------|------------|----------|-----------|----------|---------------|---------------|
| 0-0.15" | 0.0005" | ±0.0002" | 0.375" | 7469008 | 276.12 | 193.28 |

Combination Square Sets

- Graduations:
Protractor: 1°
Blades: 1mm, 64ths, 32nds, 0.5mm (E/M) 8ths, 16ths, 32nds, 64ths (4R)
- Blades are hardened and tempered for durability
- Micro-fine blade graduations
- Gage heads are hardened cast finished in baked enamel with exception of the measurement faces



ASIMETO

| Description | Blade Length | Code No. | Reg. Price \$ | SALE \$ |
|----------------------|--------------|----------|---------------|---------------|
| 4 pc Set (E/M ruler) | 12"/300mm | 7490208 | 195.35 | 136.75 |
| 4 pc Set (4R ruler) | 12" | 7490218 | 195.35 | 136.75 |

Inside Micrometers - Interchangeable Rod Type

- Graduation: Inch: 0.001"
- Rods marked with its measuring range
- Satin chrome finish throughout
- All contact points hardened for extra long tool life



ASIMETO

| Range | Head Travel | Grad. | Spacing Collar | Rod Dia. | Notes | Code No. | Reg. Price \$ | SALE \$ |
|-------|-------------|--------|----------------|----------|-----------------------|----------|---------------|---------------|
| 2-12" | 0.50" | 0.001" | 0.500" | 0.248" | 2" Mic head & 10 Rods | 7242121 | 341.35 | 238.95 |

Micrometer Stand

- This stand is designed to allow bench top use with hand micrometers
- Painted cast iron



ASIMETO

Code No.: 7109021
Reg. Price: \$50.98

\$30.59

PRECISION TOOLS

Bore Gauges (Taper Gauges)

Manufactured from stainless steel, these have permanently engraved graduations. Accurate taper throughout the length of the gage. Available with imperial or metric graduations.



| Range | Model No. | Code No. | Reg. Price \$ | SALE \$ |
|------------|-----------|----------|---------------|--------------|
| 1/32"-5/8" | DG/1-15 | 231276 | 28.30 | 16.98 |
| 1-16mm | BG/1-15 | 231277 | 28.32 | 16.99 |

Surface Plate Cleaner

- An exclusive formulation that is extremely effective for the cleaning and care of granite surface plates.
- Works quickly and effectively, leaves no residue on the granite.



ASIMETO

| Description | Code No. | Reg. Price \$ | SALE \$ |
|-------------------|----------|---------------|--------------|
| Pint Spray Bottle | 7607520 | 12.48 | 7.49 |
| Gallon | 7607550 | 43.43 | 21.72 |

Black Granite Surface Plates 0-Ledge

Imported Precision Toolroom Black Granite Surface Plates
These plates are made of the highest quality – True Black – Fine Grained – Non-porous – Jewel Hardness – Granite available to give years of long lasting service.



Specifications:

Compressive Strength 7329 lbs. / in²
Water Absorptivity 0.13%

| Size (in.) | Thickness (in.) | Shipping Weight (lb) | (±) | Code No. | Reg. Price \$ | SALE \$ |
|------------------------------------|-----------------|----------------------|----------|----------|---------------|-----------------|
| Grade B-Tool Room- No Ledge | | | | | | |
| 9 x 12 | 3 | 40 | 0.0001 | 255100 | 102.59 | 66.68 |
| 12 x 18 | 3 | 110 | 0.0001 | 255105 | 159.45 | 103.64 |
| 18 x 24 | 4 | 189 | 0.00015 | 255110 | 423.28 | 275.13 |
| 24 x 36 | 4 | 475 | 0.0002 | 255115 | 777.26 | 505.22 |
| 36 x 48 | 6 | 1427 | 0.0004 | 255120 | 2,108.34 | 1,370.42 |
| 48 x 72 | 8 | 3300 | 0.0007 | 255125 | 6,144.17 | 3,993.71 |
| Grade A-Inspection | | | | | | |
| 12 x 18 | 3 | 110 | 0.000050 | 255130 | 244.19 | 158.72 |
| 18 x 24 | 3 | 145 | 0.000075 | 255135 | 394.67 | 256.54 |
| 24 x 36 | 4 | 475 | 0.0001 | 255140 | 856.98 | 557.04 |

Universal Magnetic Indicator Holder

- Two universal ball sockets permit adjustment to any angle or position
- Fine adjustment
- Dovetail clamp for test indicators
- 1/4" hole for 1/4" stem indicators



Code No.: 200825
Reg. Price: \$20.80

\$12.48

Scribers

- MS/4** Single ended light duty
- MS/MG/6** Tungsten carbide tip for marking on hard materials. Permanent magnet on the other end for picking up small metal parts
- MS/P/3** Scriber point is held by a knurled chuck and can be reversed when not in use
- MS/ST/9** Single ended heavy duty
- MS/7** Double ended with one straight point and one point bent at 90°
- MS/H/8** Double ended heavy duty with one straight point, the other bent at 90°



| Overall Length | Model No. | Code No. | Reg. Price \$ | SALE \$ |
|----------------|-----------|----------|---------------|-------------|
| 4-1/2 | MS/4 | 231252 | 3.24 | 1.94 |
| 6 | MS/MG/6 | 231254 | 13.72 | 8.23 |
| 3-1/2 | MS/P/3 | 231256 | 7.62 | 4.57 |
| 7 | MS/ST/9 | 231258 | 5.12 | 3.07 |
| 7-1/2 | MS/7 | 231262 | 5.12 | 3.07 |
| 9-3/16 | MS/H/8 | 231264 | 6.00 | 3.60 |

Surface Roughness Standards Set

- Used for the visual comparison of surface roughness
- Set of 30 specimens, 7/8" x 3/8" electro-formed, solid nickel

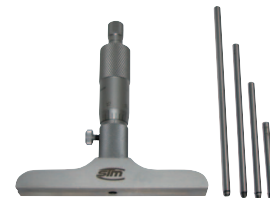
ASIMETO



| Code No. | Reg. Price \$ | SALE \$ |
|----------|---------------|---------------|
| 7506010 | 323.39 | 226.37 |

Depth Micrometers

- Base surface hardened and ground
- Satin chrome finish
- 0.001" graduations
- Complete with fitted case



| Range | Graduation | Base | Code No. | Reg. Price \$ | SALE \$ |
|-------|------------|--------|----------|---------------|---------------|
| 0-4" | 0.001" | 2-1/2" | 200550 | 178.32 | 115.91 |
| 0-4" | 0.001" | 4" | 200552 | 265.42 | 172.52 |
| 0-6" | 0.001" | 2-1/2" | 200557 | 179.30 | 116.55 |
| 0-6" | 0.001" | 4" | 200555 | 219.26 | 142.52 |

Feeler Gauge

- 26 tapered leaf thickness gauges
- 3" long



| Range (in.) | Code No. | Reg. Price \$ | SALE \$ |
|-------------------|----------|---------------|--------------|
| 0.0015" to 0.025" | 606050 | 41.58 | 24.95 |

Order before 3:00pm EST and we'll ship same day

Precision Boring Heads

- Ideal for mill or jig bore operation
- These heads readily adapt to many different machines due to interchangeable shanks
- Maximum rigidity is assured even when boring bar holder is used in an offset position
- Hardened and ground adjustment screw, along with outside base design, guarantees long life and trouble free use



| Head Dia. | Hole Size | Offset | Code No. | Reg. Price \$ | SALE \$ |
|-----------|-----------|--------|----------|---------------|---------------|
| 2" | 1/2" | 1/2" | 356001 | 165.55 | 107.61 |
| 3" | 3/4" | 3/4" | 356002 | 238.64 | 155.12 |
| 4" | 1" | 1" | 356003 | 406.66 | 264.33 |

Shanks For Boring Heads

| Size | Thread | Code No. | Reg. Price \$ | SALE \$ |
|-----------|-------------|----------|---------------|--------------|
| R8 | 1-1/2" - 18 | 356010 | 110.75 | 71.99 |
| ISA40 | 1-1/2" - 18 | 356012 | 135.38 | 88.00 |
| 3/4" S.S. | 1-1/2" - 18 | 356018 | 86.22 | 51.73 |
| MT4 | 1-1/2" - 18 | 356020 | 123.06 | 79.99 |
| 1" S.S. | 1-1/2" - 18 | 356025 | 86.22 | 51.73 |



Drill Press Vise

- High tensile iron casting
- Cold rolled screw thread
- Plain jaws of special steel



| Jaw Width | Jaw Opening | Jaw Depth | Code No. | Reg. Price \$ | SALE \$ |
|-----------|-------------|-----------|----------|---------------|--------------|
| 3" | 3" | 1-1/8" | 370206 | 70.90 | 42.54 |

Driven Tooling



Driven tools for CNC turning centers allow milling, drilling, and tapping operations on the lathes without additional parts handling. Also in this case GS can supply a wide range of types in order to equip the CNC lathes and turrets of the most popular builders on the market with an unbeatable price/quality ratio.

- Main body designed to maximize rigidity and reduce vibration
- Specially treated corrosion resistant steel body
- Angular contact bearings + taper roller bearings on output spindle for better rigidity and longer life
- Gleason spiral bevel gears with completely ground involute form
- Rated up to 80Nm torque and 8,000 rpm
- Internal coolant option - up to 80bar
- 2 Year Warranty



RD
Radial



AX
Axial

Driven Tools For DOOSAN Lathes PUMA 230 - 240 - 280 M-MS

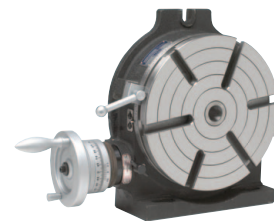
- Hexagonal tool shaft lock wrench
- Cooling nozzle
- Nozzle lock screws
- Driven tool locking screws
- O-ring

▼ Direction of rotation is same as machine spindle ▼ Direction of rotation is opposite to machine spindle

| Model | Orient | Rotation | Turret | Output | Internal Coolant | Nm | Rpm | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|-----------|--------|----------|--------|--------|------------------|----|-------|--------------|----------|---------------|-----------------|
| 99.DS.A01 | AX | ▼ | BMT55 | ER 25 | - | 40 | 8,000 | 57.2 mm | 381512 | 1,880.34 | 1,316.24 |
| 99.DS.A02 | AX | ▼ | BMT55 | ER 25 | • 80bar | 40 | 8,000 | 57.2 mm | 381513 | 2,156.81 | 1,509.77 |
| 99.DS.A11 | RD | ▼ | BMT55 | ER 25 | - | 40 | 8,000 | 70 mm | 381514 | 3,539.34 | 2,477.54 |
| 99.DS.A12 | RD | ▼ | BMT55 | ER 25 | • 80bar | 40 | 8,000 | 70 mm | 381515 | 4,180.89 | 2,926.62 |

Horizontal/Vertical Rotary/Dividing Tables

- This HV type Rotary Table is so designed as to permit machining operations at a higher dimension than that of RT type rotary tables
- The base can be used in a vertical position to enable it to carry out center work



| Model | Table OD | Base Dim. | T-Slot Width | Center Sleeve | Code No. | Reg. Price \$ | SALE \$ |
|-------|----------|---------------|--------------|---------------|----------|---------------|-----------------|
| HV-4 | 4.33" | 5.71"x4.53" | 0.43" | MT2 | 326498 | 1,084.35 | 704.83 |
| HV-6 | 5.91" | 7.87"x6.3" | 0.43" | MT2 | 326500 | 1,084.35 | 704.83 |
| HV-8 | 7.87" | 10.43"x8.66" | 0.55" | MT3 | 326505 | 1,678.03 | 1,090.72 |
| HV-10 | 9.84" | 12.8"x11.02" | 0.55" | MT3 | 326510 | 2,085.55 | 1,355.61 |
| HV-12 | 11.81" | 15.27"x12.99" | 0.63" | MT4 | 326515 | 2,596.91 | 1,687.99 |
| HV-16 | 15.98" | 19.69"x16.93" | 0.63" | MT4 | 326525 | 4,903.07 | 3,187.00 |

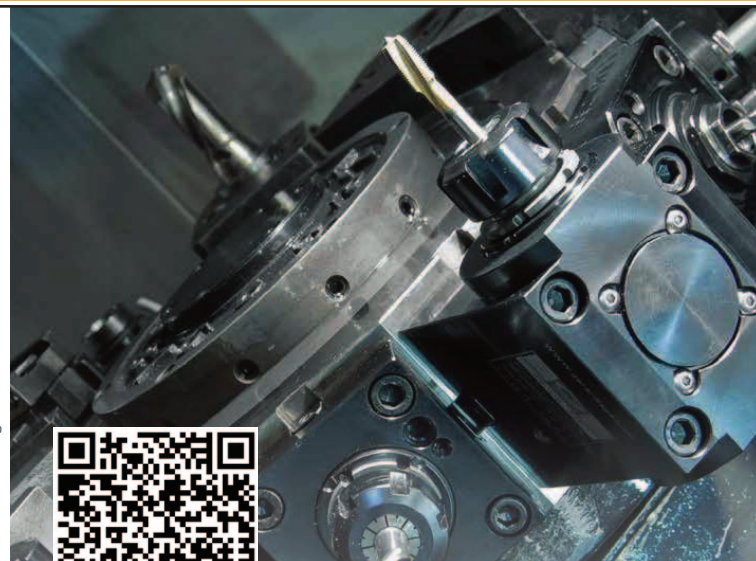
3-Jaw Cast Iron Scroll Chucks - 2pc Hard Rev. Jaws

These chucks are designed for all types of workshop machining operations on conventional lathes and milling fixtures.

- Smart design allowing inner parts to be replaced quickly
- Plain back



| Chuck Size | Hole | Max. input torque (ft/lbs) | Max rpm | Weight (lbs.) | Code No. | Reg. Price \$ | SALE \$ |
|------------|--------|----------------------------|---------|---------------|----------|---------------|---------------|
| 6" | 1.575" | 118.02 | 2,500 | 18.26 | 4440710 | 341.11 | 221.72 |
| 8" | 2.559" | 184.40 | 2,000 | 31.02 | 4440715 | 447.68 | 290.99 |
| 10" | 3.150" | 236.03 | 1,600 | 50.60 | 4440720 | 594.28 | 386.28 |
| 12" | 3.937" | 295.04 | 1,200 | 90.20 | 4440725 | 1,073.92 | 698.05 |
| 16" | 5.433" | 368.80 | 1,000 | 156.20 | 4440730 | 1,383.50 | 899.28 |



For the full line see flyer on www.SowaTool.com
DMG-Mori, Haas, and Mazak also available.

WAREHOUSE OVERSTOCK

All items only while quantities last.

CAT 40/50 Balanceable Shrink Fit Holders

- With threaded holes in order to balance with supplied balancing screws
- Coolant thru the spindle capability
- For maximum gripping power with exceptional concentricity
- Concentricity of ≤ 0.0001 " with tool shrunk in holder
- Tool is gripped 360° along the entire length of bore resulting in an evenly distributed clamping force
- Back up screws are available on request



CAT 40
Premium
Balanced
30k
RPM

CAT 40

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|---------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| CAT40 | 3/16 | 3.15" | 531840 | 341.86 | 222.21 |
| CAT40 | 1/4 | 6.30" | 531844 | 402.72 | 261.77 |
| CAT40 | 5/16 | 3.15" | 531846 | 341.86 | 222.21 |
| CAT40 | 5/16 | 6.30" | 531848 | 402.72 | 261.77 |
| CAT40 | 1/2 | 6.30" | 531856 | 402.72 | 261.77 |
| CAT40 | 5/8 | 3.15" | 531858 | 341.86 | 222.21 |
| CAT40 | 3/4 | 3.15" | 531862 | 341.86 | 222.21 |
| CAT40 | 1-1/4 | 3.94" | 531870 | 341.86 | 222.21 |
| CAT40 | 1-1/4 | 6.30" | 531872 | 510.20 | 331.63 |
| Metric | | | | | |
| CAT40 | 10 | 80 | 531814 | 341.86 | 222.21 |
| CAT40 | 20 | 80 | 531826 | 341.86 | 222.21 |



CAT 50
Premium
Balanced
25k
RPM

CAT 50

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|---------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| CAT50 | 1/4 | 6.30" | 531934 | 510.20 | 331.63 |
| CAT50 | 5/16 | 3.15" | 531936 | 380.16 | 247.10 |
| CAT50 | 3/8 | 3.15" | 531940 | 399.17 | 259.46 |
| CAT50 | 5/8 | 3.15" | 531948 | 399.17 | 259.46 |
| CAT50 | 3/4 | 3.15" | 531952 | 436.39 | 283.65 |
| CAT50 | 1 | 6.30" | 531958 | 545.16 | 354.35 |
| CAT50 | 1-1/4 | 3.94" | 531960 | 436.39 | 283.65 |
| CAT50 | 1-1/4 | 6.30" | 531962 | 646.17 | 420.01 |
| Metric | | | | | |
| CAT50 | 8 | 80 | 531904 | 436.39 | 283.65 |
| CAT50 | 16 | 80 | 531916 | 436.39 | 283.65 |
| CAT50 | 25 | 100 | 531924 | 477.83 | 310.59 |

BT 30/40 Balanceable Shrink Fit Holders

- With threaded holes in order to balance with supplied balancing screws
- Coolant thru the spindle capability
- For maximum gripping power with exceptional concentricity
- Concentricity of ≤ 0.0001 " with tool shrunk in holder
- Tool is gripped 360° along the entire length of bore resulting in an evenly distributed clamping force
- Back up screws are available on request



BT 30
Premium
Balanced
20k
RPM

BT 30

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|-------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| BT30 | 1/4 | 3.15" | 532418 | 334.09 | 217.16 |
| BT30 | 1/2 | 3.15" | 532424 | 334.09 | 217.16 |

HSK 63A/100A Balanceable Shrink Fit Holders

- With threaded holes in order to balance with supplied balancing screws
- Coolant thru the spindle capability
- Pre-Balanced up to 30,000 rpm
- For maximum gripping power with exceptional concentricity.
- Concentricity of ≤ 0.0001 " with tool shrunk in holder
- Tool is gripped 360° along the entire length of bore resulting in an evenly distributed clamping force
- Back up screws are available on request



HSK 63
Premium
Balanced
30k
RPM

HSK 63A

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|---------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| HSK63A | 5/16 | 3.15" | 536346 | 415.67 | 270.19 |
| HSK63A | 3/8 | 6.30" | 536352 | 538.69 | 350.15 |
| HSK63A | 5/8 | 3.74" | 536358 | 415.67 | 270.19 |
| HSK63A | 5/8 | 6.30" | 536360 | 538.69 | 350.15 |
| HSK63A | 3/4 | 3.94" | 536362 | 415.67 | 270.19 |
| HSK63A | 3/4 | 6.30" | 536364 | 538.69 | 350.15 |
| HSK63A | 1 | 4.53" | 536366 | 415.67 | 270.19 |
| HSK63A | 1 | 6.30" | 536368 | 538.69 | 350.15 |
| HSK63A | 1-1/4 | 4.72" | 536370 | 415.67 | 270.19 |
| HSK63A | 1-1/4 | 6.30" | 536372 | 538.69 | 350.15 |
| Metric | | | | | |
| HSK63A | 6 | 80 | 536306 | 415.67 | 270.19 |
| HSK63A | 10 | 85 | 536314 | 415.67 | 270.19 |



HSK 100
Premium
Balanced
25k
RPM

HSK 100A

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|-------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| HSK100A | 3/8 | 6.30" | 536442 | 674.65 | 438.52 |
| HSK100A | 5/8 | 6.30" | 536450 | 674.65 | 438.52 |
| HSK100A | 3/4 | 4.13" | 536452 | 613.79 | 398.96 |
| HSK100A | 3/4 | 6.30" | 536454 | 674.65 | 438.52 |
| HSK100A | 1 | 6.30" | 536458 | 674.65 | 438.52 |
| HSK100A | 1-1/4 | 6.30" | 536462 | 674.65 | 438.52 |

BT 30/40 Balanceable Shrink Fit Holders

- With threaded holes in order to balance with supplied balancing screws
- Coolant thru the spindle capability
- For maximum gripping power with exceptional concentricity
- Concentricity of ≤ 0.0001 " with tool shrunk in holder
- Tool is gripped 360° along the entire length of bore resulting in an evenly distributed clamping force
- Back up screws are available on request



BT 30
Premium
Balanced
20k
RPM

BT 30

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|-------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| BT30 | 1/4 | 3.15" | 532418 | 334.09 | 217.16 |
| BT30 | 1/2 | 3.15" | 532424 | 334.09 | 217.16 |

BT 40

| Legth Taper | Hole Dia. | Gauge Length | Code No. | Reg. Price \$ | SALE \$ |
|---------------|-----------|--------------|----------|---------------|---------------|
| Inch | | | | | |
| BT40 | 1/4 | 6.30" | 532470 | 430.92 | 280.10 |
| BT40 | 3/8 | 3.54" | 532476 | 341.86 | 222.21 |
| BT40 | 3/8 | 6.30" | 532478 | 436.39 | 283.65 |
| BT40 | 1/2 | 3.54" | 532480 | 341.86 | 222.21 |
| BT40 | 1/2 | 6.30" | 532482 | 402.72 | 261.77 |
| BT40 | 5/8 | 3.54" | 532484 | 402.72 | 261.77 |
| BT40 | 3/4 | 6.30" | 532490 | 402.72 | 261.77 |
| BT40 | 1-1/4 | 3.94" | 532496 | 402.72 | 261.77 |
| Metric | | | | | |
| BT40 | 6 | 90 | 532432 | 402.72 | 261.77 |
| BT40 | 8 | 90 | 532436 | 341.86 | 222.21 |

Order before 3:00pm EST and we'll ship same day

"G" Clamp

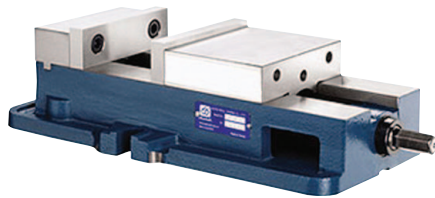
- SG iron with a tensile strength over 60,000 psi
- Powder coated finish
- Swiveling pad
- Handle designed to bend before the frame can be overstressed
- Model: GCL/13D/100
- Clamp Capacity: 4"
- Throat Depth: 2-11/32"
- Load Capacity: 1200 lb



Code No.: 231442 **\$15.38**
Reg. Price: \$38.45

Lock-Well Precision Milling Vise

- 8" x 10" opening
- Bed height: 3.310"
- 4 Jaw Plate positions allowing extra capacity with the jaw plates in the outside position
- The other quality movable jaw does not lift off the bed, and deflection of the stationary bed is minimized
- The lead screw is enclosed for maximum protection

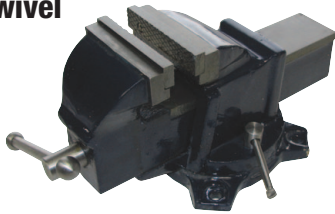


Code No.: 327130
Reg. Price: \$1,753.55

\$1,052.13

Bench Vise With Swivel

- Steel serrated jaws
- Heavy duty cast iron body



| Jaw Size | Code No. | Reg. Price \$ | SALE \$ |
|----------|----------|---------------|---------------|
| 6" | 326795 | 232.65 | 139.59 |

80pc SAE Grease Fitting Assortment

- Contents:
- 1/8"-27 PTF - 25pcs straight, 10pcs 45°, 10pcs 90°
 - 1/4"-28 SAE-LT - 15pcs straight, 10pcs 45°, 10pcs 90°
 - Model: GFT/KIT/SAE-80



Code No.: 231386 **\$39.50**
Reg. Price: \$98.75

Pivot Clamp (Pair)

- Adjustable clamping height
- Brass plate under the clamp arm to protect the workpiece
- Spherical flange nut assures material will be tightly clamped
- Clamping arm is forged



| | Table T-Slot Size (in.) | Stud Size (in.) | Code No. | Reg. Price \$ | SALE \$ |
|--------|-------------------------|-----------------|----------|---------------|---------------|
| Inch | 5/8 | 1/2 - 13 x 5 | 326750 | 133.16 | 53.26 |
| | 3/4 | 5/8 - 11 x 6 | 326755 | 166.24 | 66.50 |
| Metric | 16mm | M12 x 5 | 326745 | 241.50 | 96.60 |
| | 20mm | M16 x 6 | 326746 | 263.65 | 105.46 |
| | 22mm | M20 x 7 | 326747 | 349.56 | 139.82 |
| | 28mm | M24 x 8 | 326748 | 541.10 | 216.44 |

3-Ply Black Disposable Masks - Box of 50

- Non-medical use
- Elastic loops fit comfortably around ears
- Nose clip molds mask securely to face
- Comfortable & easy to breathe
- Filters dust, pollen, droplets



Code No.: 914953 **\$5.10**
Reg. Price: \$8.50

3pc Outside Micrometer Set

- 0-3" range
- 0.0001" graduation
- Ratchet and lock nut
- Complete with standards (2" and up)
- Carbide faces
- Fitted wood case



Code No.: 200578 **\$74.09**
Reg. Price: \$123.48

STM Magnetic Base

- Standard Model BA-1



Code No.: 225001
Reg. Price: \$71.50

\$42.90

Bevel Steel Squares

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875



| Inch Size | Metric Size | Squareness | Code No. | Reg. Price \$ | SALE \$ |
|------------|-------------|------------|----------|---------------|--------------|
| 3" x 2" | 75 x 50mm | 00 | 7639220 | 69.57 | 27.83 |
| 4" x 2.75" | 100 x 70mm | 00 | 7639230 | 76.26 | 30.50 |
| 6" x 4" | 150 x 100mm | 00 | 7639240 | 132.85 | 53.14 |
| 8" x 5" | 200 x 130mm | 00 | 7639250 | 170.34 | 68.14 |

"B10" Set - SG6000

- For Steel, Aluminum, & Plastic
Contains: Noga Grip 2 Handle & 20pcs B10 blades



| Model | Code No. | Reg. Price \$ | SALE \$ |
|-------|----------|---------------|--------------|
| SG600 | 165300 | 35.91 | 21.55 |

9pc Combination Wrench Set

- 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- Mirror polished
- Drop forged
- Hardened and tempered



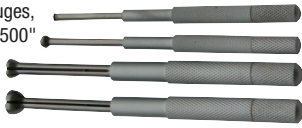
Code No.: 505001 **\$19.68**
Reg. Price: \$49.20

WAREHOUSE OVERSTOCK

All items only while quantities last.

Small Hole Gauge Set

- Set of 4 gauges, 0.125" - 0.500"



Code No.: 200713
Reg. Price: \$23.60



\$11.80

Drive Pin Punches

- Made of tool steel
- Punch section centreless ground
- Handles black oxide for rust prevention
- Knurled body for better grip
- Hardened both ends, Rc 45 to 52
- 4" length



| Model No. | Description | Code No. | Reg. Price \$ | SALE \$ |
|-----------|-----------------------|----------|---------------|-------------|
| 6300-3/32 | 3/32" Drive Pin Punch | 606254 | 5.38 | 2.15 |
| 6300-1/8 | 1/8" Drive Pin Punch | 606256 | 5.38 | 2.15 |
| 6300-5/32 | 5/32" Drive Pin Punch | 606258 | 5.38 | 2.15 |
| 6300-3/16 | 3/16" Drive Pin Punch | 606260 | 5.38 | 2.15 |
| 6300-1/4 | 1/4" Drive Pin Punch | 606264 | 5.38 | 2.15 |

Deluxe Tool Setting Stand

Quick and easy way to change cutters and pull studs. Protects the taper of holder with protective insert. Available in all tapers.

- Select between horizontal or vertical tool holding; quick and simple operation
- For Cat BT & NMTB Tapers



| Vertical | Horizontal | Code No. | Reg. Price \$ | SALE \$ |
|----------|-------------------------------|----------|---------------|---------------|
| 40 Taper | 40 Taper x 2 (only BT & NMTB) | 335250 | 895.24 | 358.10 |
| 50 Taper | 50 Taper x 2 (only BT & NMTB) | 335260 | 895.24 | 358.10 |

Roll Forged HSS Jobber Drills

- An economic HSS drill used for drilling all non-alloy materials.
- 118° point
- Black oxide finish



| Size | Code No. | Reg. Price \$ | SALE \$ |
|--------|----------|---------------|-------------|
| 3/64" | 119604 | 1.28 | 0.51 |
| 1/16" | 119606 | 1.34 | 0.54 |
| 5/64" | 119608 | 1.34 | 0.54 |
| 3/32" | 119610 | 1.36 | 0.54 |
| 7/64" | 119612 | 1.36 | 0.54 |
| 1/8" | 119614 | 1.80 | 0.72 |
| 9/64" | 119616 | 1.79 | 0.72 |
| 11/64" | 119620 | 1.78 | 0.71 |
| 3/16" | 119622 | 1.78 | 0.71 |
| 13/64" | 119624 | 1.98 | 0.79 |
| 7/32" | 119626 | 2.02 | 0.81 |
| 15/64" | 119628 | 2.02 | 0.81 |
| 9/32" | 119634 | 2.99 | 1.20 |
| 19/64" | 119636 | 3.42 | 1.37 |
| 5/16" | 119638 | 3.47 | 1.39 |
| 21/64" | 119640 | 4.22 | 1.69 |
| 11/32" | 119642 | 4.22 | 1.69 |
| 23/64" | 119644 | 4.60 | 1.84 |
| 25/64" | 119648 | 4.71 | 1.88 |
| 13/32" | 119650 | 5.30 | 2.12 |
| 7/16" | 119654 | 5.77 | 2.31 |
| 29/64" | 119656 | 5.88 | 2.35 |
| 15/32" | 119658 | 5.88 | 2.35 |

Blue Ring HSSE-V3 Spiral Point Taps



- Used in general machine tapping applications for mild carbon steels such as 1018, 1010, 1035, 1045, 1050 and 1065

Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production or conventional tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.

- 4.5 Pitch lead (Intermediate)
- Up to 25 HRC



While Supplies Last



| Inch | Tap | Length (in.) | Thread Length | Code No. | Reg. Price \$ | SALE \$ |
|------|-------|--------------|---------------|----------|---------------|---------------|
| | 4 | 1-7/8 | 0.433 | 119700 | 8.82 | 4.41 |
| | 6 | 2 | 0.512 | 119701 | 7.38 | 3.69 |
| | 6 | 2 | 0.512 | 119722 | 8.49 | 3.40 |
| | 10 | 2-3/8 | 0.512 | 119704 | 7.38 | 3.69 |
| | 12 | 2-3/8 | 0.512 | 119705 | 8.49 | 4.25 |
| | 1/4 | 2-1/2 | 0.630 | 119707 | 9.14 | 4.57 |
| | 1/4 | 2-1/2 | 0.630 | 119725 | 9.14 | 4.57 |
| | 1/4 | 2-1/2 | 0.630 | 119726 | 9.14 | 4.57 |
| | 5/16 | 2-23/32 | 0.748 | 119708 | 12.87 | 5.15 |
| | 5/16 | 2-23/32 | 0.748 | 119709 | 12.87 | 5.15 |
| | 5/16 | 2-23/32 | 0.748 | 119727 | 12.87 | 5.15 |
| | 5/16 | 2-23/32 | 0.748 | 119728 | 12.87 | 5.15 |
| | 3/8 | 2-15/16 | 0.748 | 119729 | 12.67 | 6.34 |
| | 3/8 | 2-15/16 | 0.748 | 119730 | 12.67 | 6.34 |
| | 7/16 | 3-5/32 | 0.866 | 119712 | 16.20 | 8.10 |
| | 7/16 | 3-5/32 | 0.866 | 119731 | 16.20 | 8.10 |
| | 1/2 | 3-3/8 | 0.945 | 119732 | 19.29 | 9.65 |
| | 5/8 | 3-13/16 | 1.102 | 119714 | 56.44 | 22.58 |
| | 3/4 | 4-1/4 | 1.220 | 119715 | 88.63 | 35.45 |
| | 3/4 | 4-1/4 | 1.220 | 119734 | 83.12 | 33.25 |
| | 7/8 | 4-11/16 | 1.339 | 119716 | 115.09 | 46.04 |
| | 7/8 | 4-11/16 | 1.339 | 119735 | 156.87 | 62.75 |
| | 1 | 5-1/8 | 1.496 | 119717 | 156.87 | 62.75 |
| | 1 | 5-1/8 | 1.496 | 119736 | 148.39 | 59.36 |
| | 1-1/8 | 5-7/16 | 1.732 | 119718 | 209.79 | 83.92 |
| | 1-1/8 | 5-7/16 | 1.732 | 119737 | 209.79 | 83.92 |
| | 1-1/4 | 5-3/4 | 1.732 | 119719 | 244.18 | 97.67 |
| | 1-1/4 | 5-3/4 | 1.732 | 119738 | 244.18 | 97.67 |
| | 1-3/8 | 6-1/16 | 2.000 | 119720 | 321.13 | 128.45 |
| | 1-1/2 | 6-3/8 | 2.000 | 119721 | 411.86 | 164.74 |

Metric

| Tap | Length (in.) | Thread Length | Code No. | Reg. Price \$ | SALE \$ |
|-------------|--------------|---------------|----------|---------------|--------------|
| M2 x 0.4 | 1-3/4 | 0.433 | 119750 | 15.10 | 6.04 |
| M2.5 x 0.45 | 1-13/16 | 0.512 | 119751 | 15.10 | 6.04 |
| M3 x 0.5 | 1-15/16 | 0.433 | 119752 | 12.13 | 4.85 |
| M3.5 x 0.6 | 2 | 0.512 | 119753 | 12.01 | 4.80 |
| M4.5 x 0.75 | 2-3/8 | 0.512 | 119755 | 14.33 | 5.73 |
| M5 x 0.8 | 2-3/8 | 0.512 | 119756 | 10.47 | 4.19 |
| M6 x 1 | 2-1/2 | 0.630 | 119757 | 10.47 | 4.19 |
| M7 x 1 | 2-23/32 | 0.630 | 119758 | 14.77 | 5.91 |
| M8 x 1 | 2-23/32 | 0.748 | 119759 | 14.77 | 5.91 |
| M8 x 1.25 | 2-23/32 | 0.748 | 119760 | 12.13 | 4.85 |
| M12 x 1.25 | 3-3/8 | 0.945 | 119763 | 24.80 | 9.92 |
| M12 x 1.75 | 3-3/8 | 0.945 | 119764 | 24.37 | 9.75 |
| M14 x 1.5 | 3-19/32 | 0.984 | 119765 | 45.53 | 18.21 |
| M16 x 2 | 3-13/16 | 1.102 | 119768 | 45.86 | 18.34 |
| M20 x 2.5 | 4-15/32 | 1.220 | 119772 | 96.79 | 38.72 |
| M22 x 1.5 | 4-11/16 | 1.339 | 119773 | 110.46 | 44.18 |
| M22 x 2.5 | 4-11/16 | 1.339 | 119774 | 110.46 | 44.18 |
| M24 x 1.5 | 4-29/32 | 1.339 | 119775 | 148.39 | 59.36 |
| M27 x 1.5 | 5-1/8 | 1.181 | 119777 | 209.79 | 83.92 |
| M30 x 3.5 | 5-7/16 | 1.378 | 119780 | 244.18 | 97.67 |

Order before 3:00pm EST and we'll ship same day

WISE



6" Versatile Vise

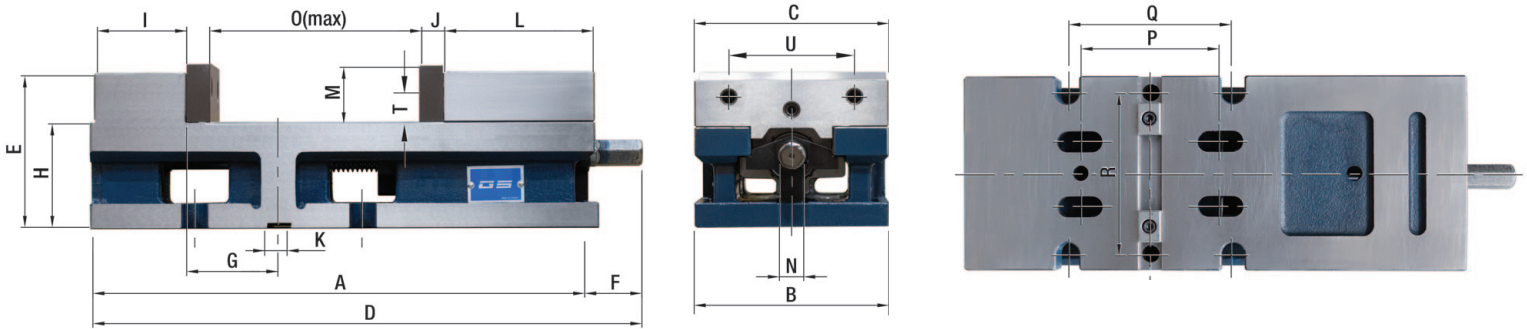
Compare the GSV60 with the leading competitor...
the biggest difference you'll find is price!

- 6" vise with 6-1/2" opening
- High accuracy vise for single station CNC centres specially designed to prevent workpiece lift
- 2 operating positions for Vertical Machine Centres: Upright & Lay Down
- 1 operating position for Horizontal Machine Centres: Horizontal
- Bed height: 81mm ± 0.012 mm (3.189" ± 0.0005 ")
- Material: FCD-60
- Weight: 31kg



Code No.: 382620 **\$805.62**
Reg. Price: \$1,150.88

LIFETIME WARRANTY!



GSV60 6" Versatile Vise Dimensions:

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | T | U | Wt. |
|-----|--------|-----|-------|-------|------|-------|----|------|----|----|-------|------|----|-----|--------|-----|-----|------|------|------|
| 385 | 152.45 | 151 | 431.8 | 118.7 | 46.8 | 69.84 | 81 | 69.9 | 18 | 18 | 114.3 | 44.5 | 19 | 163 | 107.95 | 127 | 127 | 23.8 | 98.4 | 31kg |

Leading Competitor Comparison

| | | | | | | | | | | | | | | | | | | | | |
|-----|--------|-----|-------|--------|------|-------|-------|-------|----|----|-------|------|----|-----|--------|-----|-----|------|------|------|
| 385 | 152.45 | 151 | 431.8 | 118.67 | 46.8 | 69.84 | 80.95 | 69.85 | 18 | 18 | 114.3 | 44.5 | 19 | 163 | 107.95 | 127 | 127 | 23.8 | 98.4 | 31kg |
|-----|--------|-----|-------|--------|------|-------|-------|-------|----|----|-------|------|----|-----|--------|-----|-----|------|------|------|

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