

2025

All prices are in Canadian Dollars
Check current price and stock online

www.accusizetools.com

TIALN COATED M42-8% COBALT ROUGHING END MILL

- TiAlN coated ■ Center cutting
- M42-8% premium cobalt
- CNC qualified



Dia	Shk Dia	Flt Length	OAL	Fl	Item # Standard Tooth	Price	Item # Fine Tooth	Price
1/4"	3/8"	3/4"	2-1/2"	4	1102-0014	\$26.60/PC	1104-0014	\$26.60/PC
5/16"	3/8"	3/4"	2-1/2"	4	1102-0516	\$26.60/PC	1104-0516	\$26.60/PC
3/8"	3/8"	3/4"	2-1/2"	4	1102-0038	\$26.60/PC	1104-0038	\$26.60/PC
1/2"	1/2"	1-1/4"	3-1/4"	4	1102-0012	\$36.60/PC	1104-0012	\$36.60/PC
1/2"	1/2"	2"	4"	4	1102-0120	\$43.00/PC	1104-0120	\$43.00/PC
5/8"	5/8"	1-5/8"	3-3/4"	4	1102-0058	\$55.00/PC	1104-0058	\$55.00/PC
3/4"	3/4"	1-5/8"	3-3/4"	4	1102-0034	\$68.60/PC	1104-0034	\$68.60/PC
1"	1"	2"	4-1/2"	5	1102-0001	\$95.00/PC	1104-0001	\$99.00/PC
1"	1"	3"	5-1/2"	5	1102-0031	\$113.00/PC	1104-0031	\$123.00/PC
1"	1"	4"	6-1/2"	5	1102-0114	\$150.00/PC		

Item #2387-2004PLUS

7PC INDEXABLE CARBIDE TURNING TOOL SET, 1/2" + 10PC INSERTS COMBINATION



\$259⁰⁰
set

Item #EG00-0906

0-6" ULTRA-PRECISION M-TYPE OUTSIDE MICROMETER SET



\$372⁰⁰
set

Item #0559-0115

8" 3-JAW SELF-CENTERING CHUCK, PLAIN BACK, TWO-PIECE REVERSABLE JAWS



\$432⁰⁰
pc

115PC M35(H.S.S.+5% COBALT) GREAT ISO9001
JOBBER LENGTH DRILL SET
135° SPLIT POINT

Features:

- M35(H.S.S.+5% Cobalt).
- 115 pcs/set: 1/16" - 1/2" by 64ths, No. 1 to 60 and A to Z.
- Straight shank, ANSI standard.
- Right-hand.
- 135° split point drills do not require spot before drilling to prevent walking. The cobalt 135° split point drills last longer, cut faster and enable much less wobble than standard HSS 118° point drills. Ideal for drilling cast iron, heat-treated steel, stainless steel and other hard materials.
- In a strong fitted metal case.



Item #0422-1003
\$379⁰⁰
set

32PC H.S.S. 1/2" SHANK S&D DRILL SET
118° POINT

Features:

- High-speed steel.
- Black oxide finished.
- 32pcs/set with 1/2" shank sliver & deming drill set in a fitted case.
- Size: 33/64"-1" by 64ths.
- All bits are 6" long with 3" long flutes.
- In a strong wooden block.



Item #H516-6506
\$327⁰⁰
set

29PC M35(H.S.S.+5% COBALT)
PROFESSIONAL JOBBER
LENGTH DRILL SET
135° SPLIT POINT

Features:

- M35(H.S.S.+5% Cobalt).
- Set includes: 1/16"-1/2" by 1/64".
- Straight shank, ANSI standard.
- Right-hand.
- 135° split point for fast penetration and accurate starting with no punch.
- Retains hardness at high temperatures.
- Lasts 12x longer than standard 118° point drill bits.
- 135° split point drills do not require spot before drilling to prevent walking. The cobalt 135° split point drills last longer, cut faster and enable much less wobble than standard HSS 118° point drills. Ideal for drilling cast iron, heat-treated steel, stainless steel and other hard materials.
- In a strong Rose-plastic case.

Item #0422-0029
\$195⁰⁰
set



19PC M35(H.S.S.+5% COBALT)
TWIST DRILL SET, METRIC
135° SPLIT POINT

Features:

- M35(H.S.S.+5% Cobalt).
- 19pcs/set: 1-10mm x 0.5mm.
- Fully ground from solid.
- Right-hand.
- 135° split point drills do not require spot before drilling to prevent walking. The cobalt 135° split point drills last longer, cut faster and enable much less wobble than standard HSS 118° point drills. Ideal for drilling cast iron, heat-treated steel, stainless steel and other hard materials.
- In a strong Rose-and-plastic case.



Item #3110-1119
\$88⁰⁰
set

8PC M35(H.S.S.+5% COBALT)
1/2" SHANK S&D DRILL SET
135° SPLIT POINT

Features:

- M35(H.S.S.+5% Cobalt).
- Straight shank with 3 equal flats to fit 1/2" chucks.
- Set includes: 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", & 1".
- All bits are 6" long with 3" long flutes.
- Gold and black color.
- 135° split point drills do not require spot before drilling to prevent walking. The cobalt 135° split point drills last longer, cut faster and enable much less wobble than standard HSS 118° point drills. Ideal for drilling cast iron, heat-treated steel, stainless steel and other hard materials.
- In a fitted plastic case.



Item #H516-6507
\$295⁰⁰
set



ANSI M35(H.S.S.+5% COBALT) S&D DRILL,
135° SPLIT POINT GREAT ISO9001

Features:

- M35(H.S.S.+5% Cobalt).
- Straight shank with 3 equal flats, available in 1/2" and 3/4" sizes to fit corresponding chucks.
- All bits are 6" long with 3" long flutes.
- Gold and black color.
- 135° split point drills do not require spot before drilling to prevent walking. The cobalt 135° split point drills last longer, cut faster and enable much less wobble than standard HSS 118° point drills. Ideal for drilling cast iron, heat-treated steel, stainless steel and other hard materials.



0412-0078

Dia. of Cut	1/2" Shank		3/4" Reduced Shank	
	Item	Price	Item	Price
9/16"	0412-0916	\$23.00/PC	—	—
5/8"	0412-0058	\$23.00/PC	—	—
11/16"	0412-1116	\$26.50/PC	—	—
3/4"	0412-0034	\$26.50/PC	—	—
13/16"	0412-1316	\$34.00/PC	—	—
7/8"	0412-0078	\$35.00/PC	0434-0078	\$37.40/PC
15/16"	0412-1516	\$42.00/PC	0434-1516	\$44.00/PC
1"	0412-0001	\$48.00/PC	0434-0001	\$49.50/PC
1-1/8"	—	—	0434-0118	\$61.00/PC
1-1/4"	0412-0114	\$73.00/PC	0434-0114	\$75.00/PC
1-3/8"	0412-0138	\$86.00/PC	0434-0138	\$93.00/PC
1-1/2"	0412-0112	\$101.00/PC	0434-0112	\$109.00/PC
1-5/8"	—	—	0434-0158	\$139.00/PC

Specifications & Prices are subject to change without notice. E. & O. E. We are not responsible for typographical errors that may occur. Check www.accusizetools.com for the latest price and product information.

IP54

ELECTRONIC DIGITAL CALIPER EXTRA-LARGE LCD, METAL COVER, STAINLESS STEEL, IP54 WATER RESISTANT

Features:

- Premium high-quality digital caliper, 4-way use for inside, outside, depth and step measurements with inch/metric conversion.
- Metal covers heavy-duty.
- Instantly displays on large LCD upon pulling, 5 minutes automatically off.
- Constructed with HRC 52.5 hardened stainless steel shafts & with IP54 water resistant.
- Requires one 3V CR2032 battery (2 additional battery included).
- In a fitted plastic case.



Item	Range	Resolution	Accuracy	Price
2015-0150	0-6"/0-150mm	0.0005"/0.01mm	±0.03mm	\$49.50/PC
2015-0200	0-8"/0-200mm	0.0005"/0.01mm	±0.03mm	\$89.00/PC
2015-0300	0-12"/0-300mm	0.0005"/0.01mm	±0.04mm	\$99.00/PC

REPLACEMENT BATTERY

Item	Price
CR2032	\$3.30/PC



FULL SCREEN LCD ELECTRONIC DIGITAL CALIPER

GREAT

Features:

- Metric/Inch/Fractional system interchangeable (1110-0818, 1110-0828, & 1110-0838).
- Power ON/OFF (auto off in 5 minutes).
- Zero setting at any position.
- Auto or manual power off.
- Data output MCP105.
- Power supply: 3V CR2025.
- In a fitted plastic case.



Normal LCD Metric/Inch/Fractional, 1/128"

Item	Range	Resolution	Accuracy	Price
1110-0818	0-6"/0-150mm	0.0005"/1/128"/0.01mm	±0.03mm	\$93.00/PC
1110-0828	0-8"/0-200mm	0.0005"/1/128"/0.01mm	±0.03mm	\$123.00/PC
1110-0838	0-12"/0-300mm	0.0005"/1/128"/0.01mm	±0.04mm	\$183.00/PC

Yellow LCD Metric/Inch

Item	Range	Resolution	Accuracy	Price
1110-1818	0-6"/0-150mm	0.0005"/0.01mm	±0.03mm	\$98.00/PC
1110-1828	0-8"/0-200mm	0.0005"/0.01mm	±0.03mm	\$129.00/PC
1110-1838	0-12"/0-300mm	0.0005"/0.01mm	±0.03mm	\$198.00/PC

REPLACEMENT BATTERY

Item	Price
CR2025	\$3.30/PC



ELECTRONIC DIGITAL INDICATOR

Features:

- Inch/mm system interchangeable.
- ON/OFF: power ON/OFF.
- ZERO/SET: zero setting and default data setting.
- +: increasing displayed value.
- -: reducing displayed value.
- Data output MCP105.
- Power supply: 3V CR2025.
- In a fitted plastic case.

6110-1368



REPLACEMENT BATTERY

Item	Price
CR2025	\$3.30/PC



Item	Range	Resolution	Accuracy	Functions	Keys	Price
611H-1348Y	0-0.5"/0-12.5mm	0.00005"/0.001mm	±0.015mm	in/mm, ON/OFF, ZERO/SET, +, -.	5	\$161.00/PC
6110-1368	0-1"/0-25mm	0.0005"/0.01mm	±0.03mm	in/mm, ON/OFF, ZERO/SET, +, -.	5	\$176.00/PC

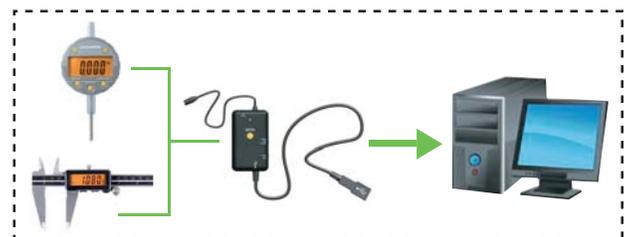
MEASUREMENT DATA MANAGEMENT

Features:

- Plug & play
- Drivers & software needless
- For any input file
- Measuring tool connector: standard ϕ 2.5 four cores plug D/C/V/G, corresponding Data/Clock/Vdd/Get, wire long 1.8m
- PC connector: standard USB port, wire long 2m
- 2 Resolution-Modes and 3 Input-Modes can be selected
- The USB cable can export data directly from our electronic digital caliper or electronic digital indicator to a computer. No need for extra driver



Item #MCP105
\$251.00/PC



- Software built-in the cable compatible with Windows 10, Windows 11 and IOS

3 KEYS ELECTRONIC DIGITAL CALIPER WITH EXTRA LARGE LCD

Features:

- 12mm high LCD display.
- Zero setting at any position.
- Inch/mm system interchangeable.
- Instantly displays on large LCD upon pulling, 5 minutes automatically off.
- Power on/off at any position, invariable measuring origin (zero).
- Display window is made of special quartz glass, very scratch resistant.
- Power supply: 1.5V LR44.
- In a fitted plastic case.

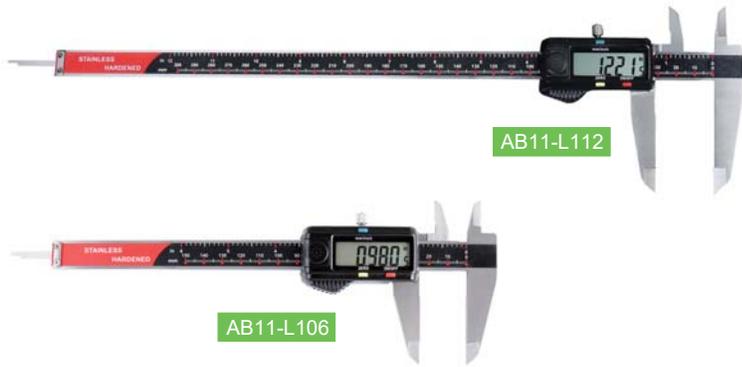


Item	Range	Resolution	Price
AB11-1104	0-4"/0-100mm	0.0005"/0.01mm	\$40.00/PC
AB11-1106	0-6"/0-150mm	0.0005"/0.01mm	\$40.00/PC
AB11-1108	0-8"/0-200mm	0.0005"/0.01mm	\$66.00/PC
AB11-1112	0-12"/0-300mm	0.0005"/0.01mm	\$95.00/PC

ELECTRONIC DIGITAL CALIPER WITH EXTRA LARGE SCREEN, LEFT-HAND

Features:

- 12mm high LCD display.
- Zero setting at any position.
- Inch/mm system interchangeable.
- Instantly displays on large LCD upon pulling, 5 minutes automatically off.
- Power on/off at any position, invariable measuring origin (zero).
- Display window is made of special quartz glass, strong ability of scratch resistance.
- Applicable to left hand operation.
- Power supply: 1.5V LR44.
- In a fitted plastic case.



Item	Range	Resolution	Price
AB11-L106	0-6"/0-150mm	0.0005"/0.01mm	\$72.00/PC
AB11-L108	0-8"/0-200mm	0.0005"/0.01mm	\$98.00/PC
AB11-L112	0-12"/0-300mm	0.0005"/0.01mm	\$119.00/PC

WATER RESISTANT ELECTRONIC DIGITAL CALIPER, IP67 METAL COVER



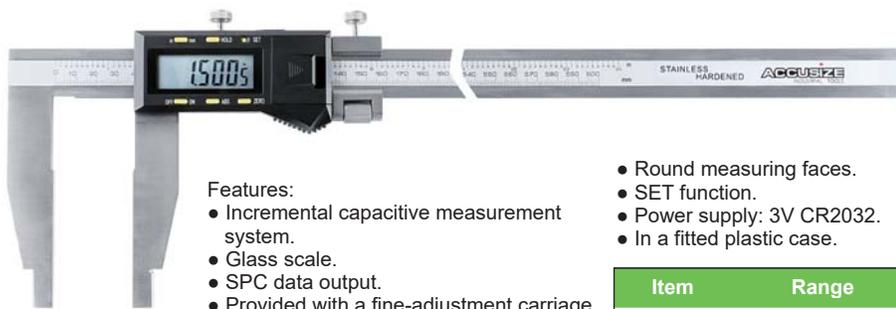
Features:

- IP67 prevents dust, spraying water, oil and magnetism.
- Permissible error: ± 0.03 mm.
- Inch/mm system interchangeable.
- Zero setting at any position.
- Auto power off.
- Power supply: 1.5V SR44.
- In a fitted plastic case.



Item	Range	Resolution	Price
1199-W636	0-12"/0-300mm	0.0005"/0.01mm	\$329.00/PC

HEAVY-DUTY DIGITAL CALIPER WITH FINE ADJUSTMENT



Features:

- Incremental capacitive measurement system.
- Glass scale.
- SPC data output.
- Provided with a fine-adjustment carriage.

- Round measuring faces.
- SET function.
- Power supply: 3V CR2032.
- In a fitted plastic case.



REPLACEMENT BATTERY



Item	Price
CR2032	\$3.30/PC

Item	Range	Resolution	Accuracy	Price
AB11-1660	0-24"/0-600mm	0.0005"/0.01mm	± 0.002 "/0.05mm	\$338.00/PC
AB11-1610	0-40"/0-1000mm	0.0005"/0.01mm	± 0.0025 "/0.06mm	\$878.00/PC

DIAL CALIPER STAINLESS STEEL, FRACTIONAL

ISO9001

Features:

- Made of hardened stainless steel.
- Resolutions: 0.01", 1/64".
- Measuring face is hardened and finished.
- Adjustable bezel, easy to zero set.
- Suitable for ID, OD, depth and step.
- The sliding face is filled.
- In a fitted plastic case.



P132-2150

Item	Range	Resolution	Accuracy	Price
P132-2150	0-6"	0.01"/1/64"	±0.001"	\$68.00/PC
P132-2200	0-8"	0.01"/1/64"	±0.0012"	\$108.00/PC

DUAL NEEDLE PRECISION INCH / METRIC DIAL CALIPER, STAINLESS STEEL

GREAT

ISO9001

Features:

- Hardened stainless steel.
- Direct reading to 0.001"/0.02mm on large clear dial.
- Utilizes two separate needles for inch and metric readings.
- Precision ground and micro-lapped adjusting slide for fine adjustment.
- 4-way measurements for inside, outside, depth and step.
- 0.100"/2mm range per revolution.
- In a fitted plastic case.

Item	Range	Resolution	Accuracy	Price
P920-S236	0-6"/0-150mm	0.001"/0.02mm	±0.001"/0.03mm	\$72.00/PC
P920-S238	0-8"/0-200mm	0.001"/0.02mm	±0.001"/0.03mm	\$94.00/PC
P920-S232	0-12"/0-300mm	0.001"/0.02mm	±0.0015"/0.04mm	\$139.00/PC



P920-S236

DIAL CALIPER STAINLESS STEEL

ISO9001

Features:

- Direct reading to 0.001" on large clear dial.
- Measuring faces hardened, precision ground and micro-lapped for absolute accuracy.
- Adjusting slide for fine adjustment.
- 4-way measurements for inside, outside, depth and step.
- Satin chrome finish, crisp engraved graduations.
- Covered gear rack extends gear teeth life.
- Adjustable bezel with locking screw.
- In a fitted plastic case.

Item	Range	Resolution	Accuracy	Price
P920-S214	0-4"	0.001"	±0.001"	\$66.00/PC
P920-S216	0-6"	0.001"	±0.001"	\$66.00/PC
P920-S218	0-8"	0.001"	±0.0012"	\$95.00/PC
P920-S212	0-12"	0.001"	±0.0015"	\$133.00/PC



P920-S216

DIAL CALIPER STAINLESS STEEL, BLACK FACE, WHITE SCALE, RED NEEDLE

GREAT

ISO9001

Features:

- Black face precision stainless steel dial caliper.
- Satin chrome finish no glare.
- Stainless, hardened steel beam and jaws with lapped measuring faces.
- Graduation 0.001 per revolution and covered rack.
- Widely spaced, micro fine graduations.
- Adjustable dial for easy reading.
- Made of hardened stainless steel.
- With extra smooth movement.
- Adjustable bezel with locking device.
- 4-way measurements for inside, outside, depth and step.
- Measuring faces hardened, ground and lapped.
- Covered rack for longer life and chip free operation.
- In a fitted plastic case.

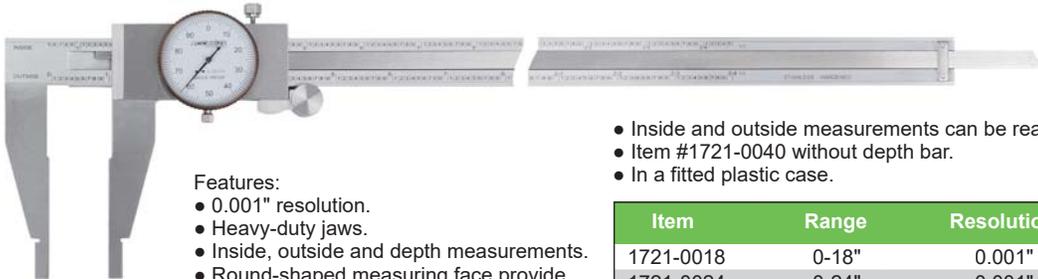
Item	Range	Resolution	Accuracy	Price
P920-B216	0-6"	0.001"	±0.001"	\$66.00/PC
P920-B212	0-12"	0.001"	±0.0015"	\$133.00/PC



P920-B216

HEAVY-DUTY DIAL CALIPER, STAINLESS STEEL

ISO9001



Features:

- 0.001" resolution.
- Heavy-duty jaws.
- Inside, outside and depth measurements.
- Round-shaped measuring face provide accuracy.
- Inside and outside measurements can be read directly.
- Item #1721-0040 without depth bar.
- In a fitted plastic case.

Item	Range	Resolution	Accuracy	Price
1721-0018	0-18"	0.001"	±0.002"	\$252.00/PC
1721-0024	0-24"	0.001"	±0.003"	\$329.00/PC
1721-0040	0-40"	0.001"	±0.004"	\$790.00/PC



1721-0024

DOUBLE BEAM DIGITAL COUNT DIAL HEIGHT GAGE X 0.001" ISO9001



- Features:
- Hardwheel gear driven micro-adjust for easy and precise positioning.
 - Easy and error-free reading with both up and down digital counters.



DBHG-0012

Item	Range	Resolution	Accuracy	Price
DBHG-0012	0-12"	0.001"	±0.002"	\$389.00/PC
DBHG-0018	0-18"	0.001"	±0.002"	\$595.00/PC
DBHG-0024	0-24"	0.001"	±0.002"	\$668.00/PC

ELECTRONIC DIGITAL DOUBLE BEAM HEIGHT GAGE X 0.001" ISO9001



- Features:
- Hand wheel drive for easy head displacement.
 - Large LCD.
 - Inch/mm conversion.
 - On/off switch.
 - ABS/INC switchable and hold function.
 - Adjustable tolerance markers and indication on display overflow or OK.
 - Complete with scriber.
 - Power supply: SR44.



EDBH-0012

Item	Range	Resolution	Accuracy	Price
EDBH-0012	0-12"/0-300mm	0.001"/0.01mm	±0.0016"/0.04mm	\$605.00/PC
EDBH-0018	0-18"/0-450mm	0.001"/0.01mm	±0.002"/0.05mm	\$762.00/PC
EDBH-0024	0-24"/0-600mm	0.001"/0.01mm	±0.002"/0.05mm	\$926.00/PC

IP65 BLUETOOTH HEAVY-DUTY ELECTRONIC DIGITAL HEIGHT GAGE GREAT ISO9001



- Features:
- Protection level: IP65.
 - Inductive measurement system.
 - Built-in wireless transmission (bluetooth).
 - SPC data output.
 - External digital data input function, no need to repeat dialing "0" to achieve rapid detection.
 - Hand wheel drive for easy head displacement.
 - Carbide-tipped scriber facilitates fine scribing on workpieces.
 - Built-in external power port.
 - Power supply: 3V CR2450



8600-0012

Item	Range	Resolution	Accuracy	Price
8600-0012	0-12"/0-300mm	0.0005"/0.01mm	±0.0015"/0.03mm	\$680.00/PC

HEIGHT GAGE ADAPTER WITH CLAMP

- Features:
- In-demand set combining height gage bar with a universal clamp.
 - The adapter is very widely used for height gage measurement applications.
 - Holds all instruments equipped with rods and dovetails.



0002-0881

Item	Bar Size T x H x L	Hole Diameter	Price
0002-0881	1/4" x 1/2" x 3"	5/32" & 3/8"	\$22.00/PC
0002-0882	9 x 9 x 76 mm	5/32" & 3/8"	\$22.00/PC

PRECISION BEVEL EDGE SQUARE DIN 875

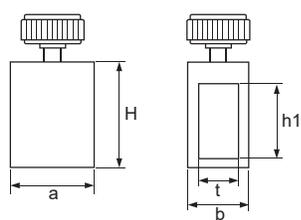
- Features:
- Squares have accurate right angles both inside and outside.
 - Made from a single piece of fully ground tool steel.
 - All squares are fully hardened.
 - Blades are beveled on both edges of each side.
 - Beams and blades are ground and accurately lapped for straightness and parallelism.
 - Made of steel hardened to Rockwell 55.



0303-6203

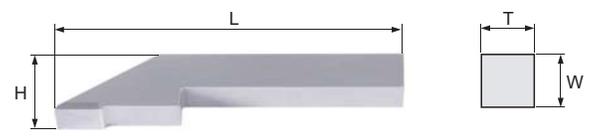
Item	Grade	Size	Blade	Beam	Price
0303-8303	Grade 00	6" x 4"	6"	4"	\$88.00/PC
0303-6203	Grade 0	6" x 4"	6"	4"	\$68.00/PC

CLAMP FOR HEIGHT GAGE



Item	H	a	H1	b	t	Price
0916-0151	1.28"	0.79"	0.89"	0.59	0.35"	\$31.00/PC

CARBIDE SCRIBER FOR HEIGHT GAGE



Item	W	T	L	H	Price
0916-1509	0.35"	0.35"	3.15"	0.59"	\$43.00/PC

ELECTRONIC DIGITAL DRO SCALE UNIT

Features:

- Incremental capacitive system.
- Glass scale.
- Protection grade IP54.
- Manual power on/off.
- Inch/metric interchange at any position.
- Zero setting at any position.
- Data output SPC0-AC01.
- Works with TM25-0000 LCD digital unit.
- Power supply: 3V CR2032.



ABHO-0006

ISO9001

IP54

LCD DIGITAL UNIT

Features:

- Absolute capacitive system.
- Glass scale.
- Protection grade IP54.
- Built in external power port.
- Power supply: 3V CR2032.



Item #TM25-0000
\$65.00/PC



TM25-0000



ABVE-0006

VERTICAL

Item	Description	Range	Resolution	Accuracy	Price
ABVE-0006	Vertical	0-6"/0-150mm	0.0005"/0.01mm	±0.02mm/0.001"	\$92.00/PC
ABVE-0008	Vertical	0-8"/0-200mm	0.0005"/0.01mm	±0.03mm/0.0015"	\$118.00/PC
ABVE-0012	Vertical	0-12"/0-300mm	0.0005"/0.01mm	±0.03mm/0.0015"	\$142.00/PC
ABVE-0018	Vertical	0-20"/0-500mm	0.0005"/0.01mm	±0.05mm/0.002"	\$219.00/PC

HORIZONTAL

Item	Description	Range	Resolution	Accuracy	Price
ABHO-0006	Horizontal	0-6"/0-150mm	0.0005"/0.01mm	±0.02mm/0.001"	\$88.00/PC
ABHO-0008	Horizontal	0-8"/0-200mm	0.0005"/0.01mm	±0.03mm/0.0015"	\$118.00/PC
ABHO-0012	Horizontal	0-12"/0-300mm	0.0005"/0.01mm	±0.03mm/0.0015"	\$142.00/PC
ABHO-0024	Horizontal	0-20"/0-500mm	0.0005"/0.01mm	±0.05mm/0.002"	\$219.00/PC
ABHO-0040	Horizontal	0-40"/0-1000mm	0.0005"/0.01mm	±0.06mm/0.003"	\$375.00/PC

SPC CABLE FOR INCREMENTAL MEASURING TOOL

- Works with incremental measuring tools.
- No software needed.
Just collect and compile data on desktops/laptops directly.
- Press DATA button to transmit data.
- Connect to USB ports of desktops/laptops.
- Multi-connecting type: C-01 (Micro 5-Pin USB).
- Multi-language Operation.



Item #SPC0-AC01
\$98.00/PC



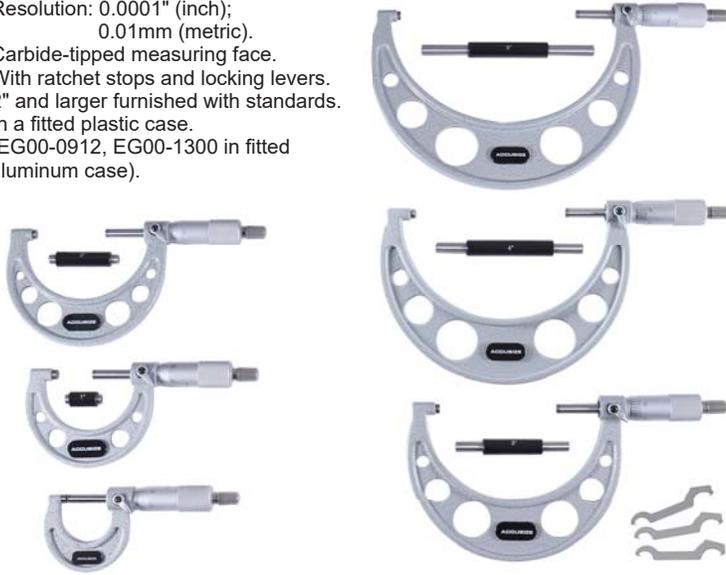
- High reliability.
- Software built-in the cable compatible with Windows 10, Windows 11 and IOS.

ULTRA-PRECISION M-TYPE OUTSIDE MICROMETER

GREAT

Features:

- Resolution: 0.0001" (inch); 0.01mm (metric).
- Carbide-tipped measuring face.
- With ratchet stops and locking levers.
- 2" and larger furnished with standards.
- In a fitted plastic case. (EG00-0912, EG00-1300 in fitted aluminum case).



EG00-0906

Item	Range	Price
Inch		
EG00-0001	0-1"	\$44.00/PC
EG00-0002	1-2"	\$46.00/PC
EG00-0003	2-3"	\$52.00/PC
EG00-0004	3-4"	\$56.00/PC
EG00-0005	4-5"	\$62.00/PC
EG00-0006	5-6"	\$80.00/PC
EG00-0007	6-7"	\$92.00/PC
EG00-0008	7-8"	\$109.00/PC
EG00-0009	8-9"	\$119.00/PC
EG00-0010	9-10"	\$125.00/PC
EG00-0011	10-11"	\$129.00/PC
EG00-0012	11-12"	\$152.00/PC
Metric		
EG00-0025	0-25mm	\$44.00/PC
EG00-0050	25-50mm	\$46.00/PC
EG00-0075	50-75mm	\$52.00/PC
EG00-0100	75-100mm	\$56.00/PC

Inch Set

Item	Range	No. of pcs	Price
EG00-0903	0-3"	3pcs	\$148.00/SET
EG00-0904	0-4"	4pcs	\$202.00/SET
EG00-0906	0-6"	6pcs	\$372.00/SET
EG00-0912	0-12"	12pcs	\$992.00/SET

Metric Set

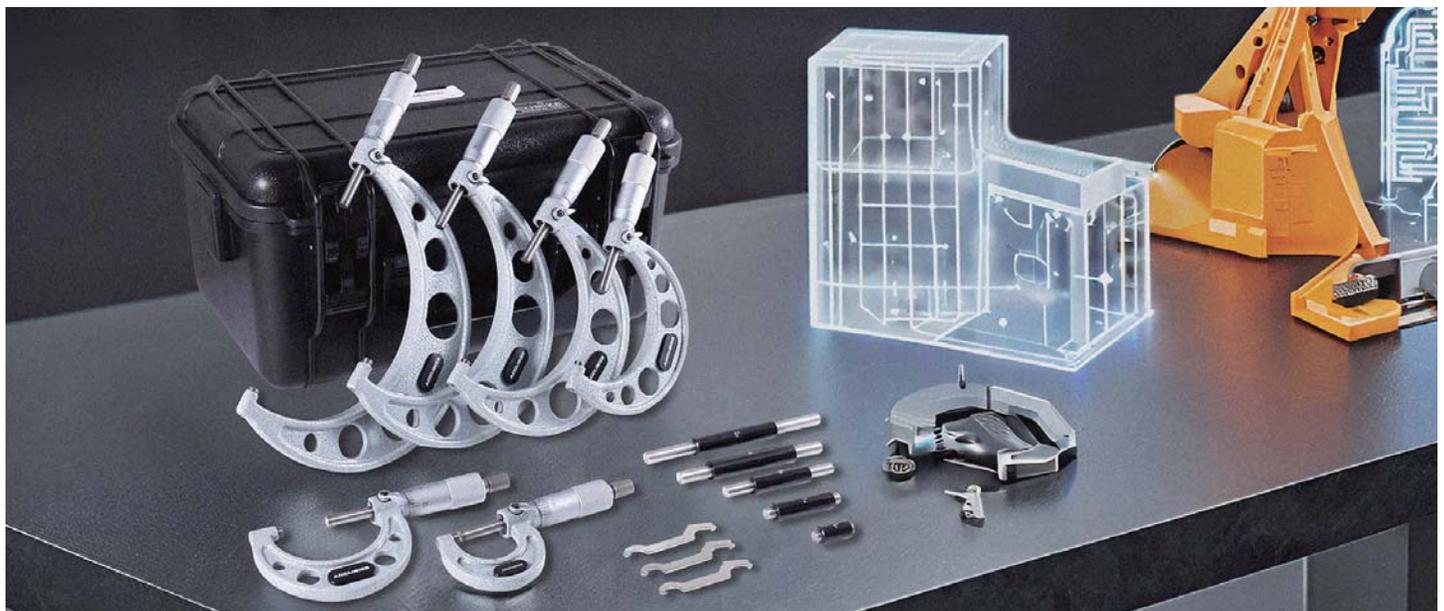
Item	Range	No. of pcs	Price
EG00-9150	0-150mm	6pcs	\$384.00/SET
EG00-1300	0-300mm	12pcs	\$999.00/SET



EG00-0903

REPLACEMENT PLASTIC BOX

Item	Price
0906-EBox High Quality Plastic Box of 0-6" Outside Micrometer Set	\$70.00/PC



ELECTRONIC DIGITAL OUTSIDE MICROMETER

ISO9001

Features:

- Criterion A for ESD.
- Data output.
- Carbide-tipped measuring face.
- No response speed limit.
- 2" and larger furnished with standards.
- Power supply: 3V CR2032.
- In a fitted plastic case.



MD71-0001

Item	Range	Resolution	Accuracy	Price
MD71-0001	0-1"/0-25mm	0.00005"/0.001mm	±0.00012"/±0.003mm	\$95.00/PC
MD71-0002	1-2"/25-50mm	0.00005"/0.001mm	±0.00012"/±0.003mm	\$119.00/PC
MD71-0003	2-3"/50-75mm	0.00005"/0.001mm	±0.00016"/±0.004mm	\$142.00/PC
MD71-0004	3-4"/75-100mm	0.00005"/0.001mm	±0.00016"/±0.004mm	\$171.00/PC
MD71-0005	4-5"/100-125mm	0.00005"/0.001mm	±0.00020"/±0.005mm	\$226.00/PC
MD71-0006	5-6"/125-150mm	0.00005"/0.001mm	±0.00020"/±0.005mm	\$264.00/PC

ELECTRONIC DIGITAL OUTSIDE MICROMETER 7 KEYS

GREAT

IP54

Features:

- Location memory. (no need to re-zero with each use)
- Instant inch/mm conversion.
- Switch between metric and imperial measurements with ease.
- Comes with a case and an additional battery.
- Large LCD.
- Auto On and Off.
- Absolute, floating zero, and relative measurements, you can zero out at any point.
- 2" and larger furnished with standards.
- Power supply: 1.5V LR44.
- In a fitted plastic case.



AC21-1022

Item	Range	Resolution	Price
AC21-1022	0-1"/0-25mm	0.00005"/0.001mm	\$126.00/PC
AC21-2022	1-2"/25-50mm	0.00005"/0.001mm	\$142.00/PC
AC21-3022	2-3"/50-75mm	0.00005"/0.001mm	\$158.00/PC
AC21-4022	3-4"/75-100mm	0.00005"/0.001mm	\$176.00/PC
AC21-5022	4-5"/100-125mm	0.00005"/0.001mm	\$219.00/PC
AC21-6022	5-6"/125-150mm	0.00005"/0.001mm	\$255.00/PC



ELECTRONIC DIGITAL OUTSIDE MICROMETER, 5 KEYS, IP54, RATCHET FRICTION THIMBLE TYPE

IP54

Features:

- Resolution: 0.00005"/0.001mm.
- Inch/mm conversion.
- ABS/INC switchable.
- Protection level IP54.
- LCD display with function indication.
- Data output.
- Automatic switch-off.
- Reset/preset.
- Carbide-tipped measuring face: ϕ 6.5mm.
- No-glare chrome finished frame with insulating grip.
- 2" and larger furnished with standards.
- Power supply: 1.5V LR44.
- In a fitted plastic case.



AC20-2022

Item	Range	Price
AC20-1022	0-1"/0-25mm	\$174.00/PC
AC20-2022	1-2"/25-50mm	\$193.00/PC
AC20-3022	2-3"/50-75mm	\$208.00/PC

LARGE SCREEN ELECTRONIC DIGITAL OUTSIDE MICROMETER

IP54

Features:

- Resolution: 0.00005"/0.001mm.
- Large LCD.
- Three large buttons to operate.
- Carbide-tipped measuring face.
- Auto power off.
- Zero setting at any position.
- Inch/mm system interchangeable at any position.
- With data output interface.
- Data hold function.
- Relative measurement and absolute measurement interchange at any position.
- Power supply: 1.5V LR44.
- In a fitted plastic case.



Item	Range	Price
C085-0001	0-1"/0-25mm	\$139.00/PC



Large LCD

ELECTRONIC SCREW THREAD MICROMETER

Features:

- Resolution: 0.00005"/0.001mm.
- Protection level: IP65.
- Power on/off key and automatic power off.
- Absolute/incremental measurement conversion, metric/inch conversion.
- Origin set for absolute measurement.
- Data output.
- Includes imperial anvil sets. Metric anvil sets are available for separate purchase.
- 60° v-anvils and conical spindles are hardened and precision ground.
- 2" and larger furnished with standards.
- Power supply: 3V CR2032.
- In a fitted plastic case.



S916-C861

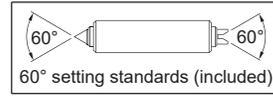
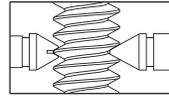
Item	Range	Anvil	Price
S916-C861	0-1"	5 tips set: 64-48; 44-28; 24-14; 13-9; 8-5TPI	\$388.00/SET
S916-C862	1-2"	5 tips set: 44-28; 24-14; 13-9; 8-5; 4.5-3.5TPI	\$409.00/SET
S916-C863	2-3"	4 tips set: 24-14; 13-9; 8-5; 4.5-3.5TPI	\$409.00/SET

SCREW THREAD MICROMETER

GREAT

Features:

- Resolution: 0.0001".
- Measures pitch diameters.
- Includes anvil sets: (number of anvils may vary for different mic sizes).
- 60° v-anvils and conical spindles are hardened and precision ground.
- 2" and larger furnished with standards.
- In a fitted plastic case.



S916-C751

Item	Range	Anvil	Price
S916-C750	0-1"	5 tips set: 64-48; 44-28; 24-14; 13-9; 8-5TPI	\$136.00/SET
S916-C751	1-2"	5 tips set: 44-28; 24-14; 13-9; 8-5; 4.5-3.5TPI	\$150.00/SET
S916-C752	2-3"	4 tips set: 24-14; 13-9; 8-5; 4.5-3.5TPI	\$174.00/SET
S916-C753	3-4"	4 tips set: 24-14; 13-9; 8-5; 4.5-3.5TPI	\$212.00/SET
S916-C754	4-5"	3 tips set: 13-9; 8-5; 4.5-3.5TPI	\$233.00/SET
S916-C755	5-6"	3 tips set: 13-9; 8-5; 4.5-3.5TPI	\$252.00/SET

12PC REPLACEMENT ANVILS

- Each micrometer comes with a set of imperial anvils. Both the imperial and metric anvil sets are available for separate purchase.

Item	Pitch	Anvil	Price
S916-C001	TPI	64-48; 44-28; 24-14; 13-9; 8-5; 4.5-3.5TPI	\$189.00/SET
S916-C002	Metric	0.4-0.5; 0.6-0.9; 1-1.75; 2-3; 3.5-5; 5.5-7mm	\$189.00/SET

ELECTRONIC DIGITAL BLADE MICROMETER

Features:

- Resolution: 0.00005"/0.001mm.
- Inch/mm conversion.
- ABS/INC switchable.
- Reset/Preset.
- Hold function for max. or min. values.
- Non-rotating spindle.
- Blade penetration: 0.236".
- Blade thickness: 0.029".
- Blade width: 0.256".
- 2" and larger furnished with standards.
- Power supply: 3V CR2032.
- In a fitted plastic case.



2312-2010



2312-4010

Item	Range	Price
2312-1010	0-1"/0-25mm	\$340.00/PC
2312-2010	1-2"/25-50mm	\$370.00/PC
2312-3010	2-3"/50-75mm	\$386.00/PC
2312-4010	3-4"/75-100mm	\$426.00/PC
2312-5010	4-5"/100-125mm	\$444.00/PC



ELECTRONIC DIGITAL OUTSIDE MICROMETER, 2 KEYS

Features:

- Resolution: 0.00005"/0.001mm.
- Power on/off key and automatic power off.
- Absolute/incremental measurement conversion, metric/inch conversion.
- Origin set for absolute measurement.
- Data output.
- Ratchet stop.
- 2" and larger furnished with standards.
- Power supply: 3V CR2032.
- In a fitted plastic case.



1320-1534



1321-2534

Item	Range	Price
1320-1534	0-1"/0-25mm	\$215.00/PC
1321-2534	1-2"/25-50mm	\$252.00/PC
1322-3534	2-3"/50-75mm	\$284.00/PC
1323-4534	3-4"/75-100mm	\$321.00/PC
1324-5534	4-5"/100-125mm	\$356.00/PC

MECHANICAL DIGITAL OUTSIDE MICROMETER

Features:

- Resolution: 0.0001".
- Rapid and simple reading.
- Carbide faces.
- Positive locking nut.
- Anvils and spindles are hardened and ground.
- Micro-lap finish on ends.
- Fast zero adjustment.
- 0.250" measuring face.
- 2" and larger furnished with standards.
- In a fitted plastic case.



BC20-1101



Item	Range	Price
BC20-1101	0-1"	\$98.00/PC
BC20-2101	1-2"	\$109.00/PC
BC20-3101	2-3"	\$127.00/PC

METRIC MECHANICAL DIGITAL OUTSIDE MICROMETER



Features:

- Resolution: 0.01mm.
- Rapid and simple reading.
- Carbide faces.
- Positive locking nut.
- Anvils and spindles are hardened and ground.
- Micro-lap finish on ends.
- Fast zero adjustment.
- 50mm and larger furnished with standards.
- 6.5mm measuring face.
- In a fitted plastic case.



BC20-1000

Item	Range	Accuracy	Price
BC20-1000	0-25mm	±0.004mm	\$98.00/PC
BC20-2000	25-50mm	±0.004mm	\$109.00/PC
BC20-3000	50-75mm	±0.005mm	\$127.00/PC

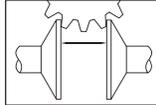
DISC TYPE MICROMETER

Features:

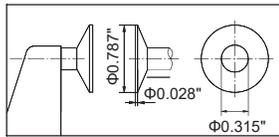
- Resolution: 0.0001".
- 3/4" diameter flanges.
- Ratchet thimble for consistent reading.
- Quick and easy zero adjustment on sleeve.
- 2" and larger furnished with standards.
- In a fitted plastic case.



2502-2001



Item	Range	Price
2502-1001	0-1"	\$219.00/PC
2502-2001	1-2"	\$240.00/PC
2502-3001	2-3"	\$255.00/PC
2502-4001	3-4"	\$271.00/PC



INSIDE MICROMETER (CALIPER TYPE)

Features:

- Resolution: 0.001".
- Satin chrome finish.
- Hardened & ground faces.
- Ratchet stop, locking clamp.
- Easily adjusted for side movement of jaw.
- Within 2" provided with a setting ring.
- In a fitted plastic case.



EG00-3221



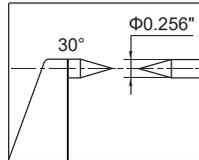
EG00-3222

Item	Range	Price
EG00-3221	0.2-1.2"	\$112.00/PC
EG00-3222	1-2"	\$127.00/PC
EG00-3223	2-3"	\$149.00/PC
EG00-3224	3-4"	\$166.00/PC
EG00-3225	4-5"	\$189.00/PC
EG00-3226	5-6"	\$206.00/PC
EG00-3227	6-7"	\$226.00/PC
EG00-3228	7-8"	\$252.00/PC
EG00-3229	8-9"	\$272.00/PC
EG00-3230	9-10"	\$296.00/PC
EG00-3231	10-11"	\$328.00/PC
EG00-3232	11-12"	\$352.00/PC

0-1" POINT MICROMETER

Features:

- Resolution: 0.0001".
- Carbide tipped point.
- 30 degree points.
- Designed to measure small grooves, keyways and other hard-to-reach dimensions.
- In a fitted plastic case.



Item	Range	Price
2004-1001	0-1"	\$118.00/PC

INSIDE MICROMETER SET

Features:

- The combining of extension rods provides a wide measuring range.
- Supplied with a standard caliper gage for zero setting.
- Each interchangeable rod is marked with its measuring range.
- Resolution: 0.001".
- Rod diameter: 0.61".
- In a fitted plastic case.



3011-5051

Item	Range	Extension Rods	Price
3011-2051	2-6"	0.5", 1", & 2"	\$176.00/SET
3011-3051	2-12"	0.5", 1", 2"(2pcs), & 4"	\$237.00/SET
3011-4051	2-20"	0.5", 1", 2"(2pcs), 4", & 8"	\$296.00/SET
3011-5051	2-24"	0.5", 1", 2", 4", 6", & 8"	\$299.00/SET
3011-6051	2-40"	0.5", 1", 2"(2pcs), 4", 6", 8", & 12"	\$899.00/SET

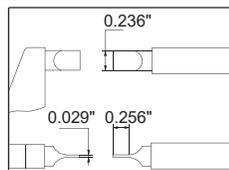
BLADE MICROMETER WITH LAMELLAR MEASURING FACE

Features:

- Resolution: 0.0001"
- Non-rotating spindle
- Blade penetration: 0.236"
- Blade thickness: 0.029"
- Blade width: 0.256"
- 2" with a standard.
- In a fitted plastic case.



2012-1001

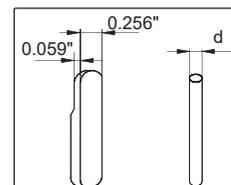


Item	Range	Price
2012-1001	0-1"	\$252.00/PC
2012-2001	1-2"	\$274.00/PC

MULTI-ANVIL MICROMETER

Features:

- Resolution: 0.0001".
- Two interchangeable anvils: flat & round.
- Carbide face on spindle.
- Ratchet thimble.
- Lock nut.
- Satin chrome finish.
- In a fitted plastic case.



P101-S100

Item	Range	d	Accuracy	Price
P101-S100	0-1"	0.118"(3mm)	±0.00016"	\$219.00/PC
P101-S101	1-2"	0.196"(5mm)	±0.00016"	\$255.00/PC

0-6" x 4" BASE ELECTRONIC DIGITAL DEPTH MICROMETER

IP65

Features:

- Protection level: IP65.
- Interchangeable rods provide a wide measuring range.
- High accuracy interchangeable rods enable the reading not have to be reset after rods switched.
- Resolution: 0.00005".
- Range: 0-6".
- Base: 4".
- Number of rods: 6.
- Power supply: 3V CR2032.
- In a fitted plastic case.

Item #P103-0178
\$381⁰⁰
set

2mm spindle pitch



0-6" x 4" BASE DEPTH MICROMETER

Features:

- Interchangeable rods provide a wide measuring range.
- High accuracy interchangeable rods enable the reading not have to be reset after rods switched.
- Resolution: 0.001".
- Range: 0-6".
- Base: 4".
- Number of rods: 6.
- In a fitted plastic case.

Item #2025-4201
\$188⁰⁰
set



THREE-POINT INTERNAL MICROMETER, RATCHET STOP

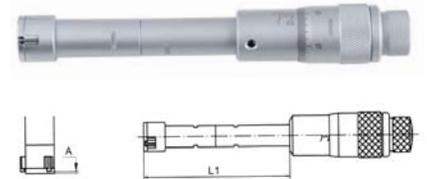
Range: 0.275-4.000"

Features:

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Carbide tipped points for high durability.
- Ratchet stop.
- Within 4": provided with a setting ring.
- Over 0.5": titanium-plated anvil optional.
- Resolution: within 0.5": 0.0001".
- over 0.5": 0.0002".
- In a fitted aluminum case.



3150-6071



Item	Range	Accuracy	Setting Ring	L1	A	Extension Rod	Price
3150-1111	0.275-0.350"	±0.00016"	0.275"	2.18"	0.06"	4"	\$418.00/SET
3150-2111	0.350-0.425"	±0.00016"	0.350"	2.18"	0.06"	4"	\$418.00/SET
3150-3111	0.425-0.500"	±0.00016"	0.500"	2.18"	0.06"	4"	\$418.00/SET
3150-4071	0.500-0.650"	±0.00016"	0.650"	3.2"	0.02"	6"	\$284.00/SET
3150-5071	0.650-0.800"	±0.00016"	0.650"	3.2"	0.02"	6"	\$284.00/SET
3150-6071	0.800-1.000"	±0.00016"	1.000"	3.6"	0.02"	6"	\$439.00/SET
3150-7071	1.000-1.200"	±0.00016"	1.000"	3.6"	0.02"	6"	\$439.00/SET
3150-8071	1.200-1.600"	±0.00016"	1.600"	3.88"	0.02"	6"	\$439.00/SET
3150-9071	1.600-2.000"	±0.00020"	1.600"	3.88"	0.02"	6"	\$549.00/SET
3151-0071	2.000-2.500"	±0.00020"	2.500"	4.56"	0.02"	6"	\$589.00/SET
3151-1071	2.500-3.000"	±0.00020"	2.500"	4.56"	0.02"	6"	\$629.00/SET
3151-2071	3.000-3.500"	±0.00020"	3.500"	4.56"	0.02"	6"	\$659.00/SET
3151-3071	3.500-4.000"	±0.00020"	3.500"	4.56"	0.02"	6"	\$692.00/SET

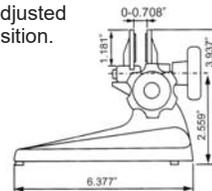
MICROMETER STAND

- 0-1" ultra-precision M-type outside micrometer, with a micrometer stand.
- EG00-0001 as Page 08.

- Electronic digital outside micrometer 0-1"/0-25mm, with micrometer Stand.
- MD71-0001 as Page 09.

EG10-1430:

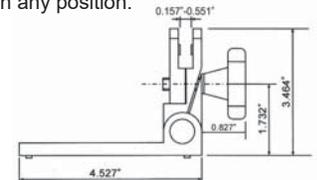
- A heavy micrometer stand.
- Made of cast iron.
- Can be adjusted to any position.



Item #EG10-1430
\$35.00/PC

S907-C153:

- Folding design for portable use.
- Clamp can be adjusted and locked in any position.



Item #S907-C153
\$54.00/PC



Item #C153-EG01
\$98.00/SET



Item #C153-MD01
\$149.00/SET



CO-AX INDICATOR

GREAT

Features:

- Restraining rod.
- Counterpoint feeler.
- The CO-AX indicator provides a simplified method for centering a workpiece or fixture on horizontal or vertical machines, external or internal diameters.
- Indicator dial remains stationary while the machine spindle rotates.
- Operates at any angle from horizontal to vertical without any change, and from internal to external by simply changing the feeler.
- Walking around the machine is unnecessary, no mirrors required, or no contortions. Exact chucking not needed.
- Graduation: 0.01mm(JD21-0002), 0.0005"(JD21-0001, JD21-0003).
- In a fitted plastic case.



JD21-0003



JD21-0001



JD21-0003



JD21-0002

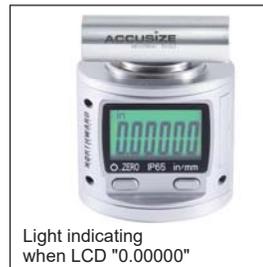
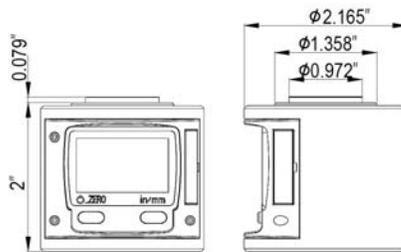


Item	Range of Per Rev.	Length of Straight Feeler	Length of Center Point Feeler	Length of Curved Feeler	Price
White Face					
JD21-0001	0-0.15"	2", 4", 6"	2"	2", 4", 6"	\$198.00/SET
Yellow Face					
JD21-0003	0-0.15"	2", 4", 6"	2"	2", 4", 6"	\$198.00/SET
JD21-0002	0-3mm	50, 101, 152mm	50mm	50, 101, 152mm	\$198.00/SET

IP65 ELECTRONIC DIGITAL HEIGHT PRESETTER, 2" X 0.00005"

Features:

- Inductive measurement system.
- Protection level: IP65.
- Magnetic base, super adhesion.
- Light indicating when LCD "0.00000".
- Range: 0-0.12" (2.5mm).
- Power on automatically when the measuring surface moving.
- Power supply: 3V CR2032.
- In a fitted aluminum case.



Light indicating when LCD "0.00000"

ISO9001

IP65



Item	Range	Resolution	Accuracy	Repeatability	Price
0805-4016	0-0.12"/0-2.5mm	0.00005"/0.001mm	±0.0003"/0.008mm	0.0001"/0.003mm	\$180.00/PC

Z-AXIS ZERO SETTER 0-0.1"

Features:

- Graduation: 0.001"
- Accuracy and repeatability: 0.0004"
- Height holding: 2"
- Length: 2"
- Square: 2.05"
- Square base, inside indicator, & magnetic
- In a fitted aluminum case

Item #0801-0301
\$161.00/PC



PRECISION MAGNETIC Z-AXIS SETTER

Features:

- Mechanical zero-setting instrument for CNC machine centers.
- Fast and sure establishing of "0" reference point.
- Magnetic base (2124-2002 magnetic base with switch).
- No averaging of several spindle approaches is required.
- Positive alignment of zero position.
- Spring loaded setting face.
- In a fitted plastic case.



2124-2001



2124-2002

Item	Height	Range	Resolution	Price
2124-2001	2"	0-0.1"	0.0005"	\$157.00/PC
2124-2002	4"	0-0.1"	0.001"	\$208.00/PC

ELECTRONIC MAGNETIC Z-AXIS SETTER 2" HEIGHT

Features:

- Accuracy 0.0002".
- Adjustable height 2".
- Magnetic base.
- 360 degree red lamp lights up when touched.
- Introduce the tool to the unit until the light is on, then draw back until light is off.
- Adjust the height if needed with preset two all-in screws on the side of the unit and turn the top grey part of the unit alongside the center threaded body.
- When presetting diameter, rotate slowly for higher precision.
- Do not take a caliper for presetting unit. Only use gage blocks and preset gauges.
- In a fitted aluminum case.



Item #0805-4015
\$252.00/PC

3D TESTER ANALOG SAVEplus INCH WITH SHANK 1/2"

Advantages:

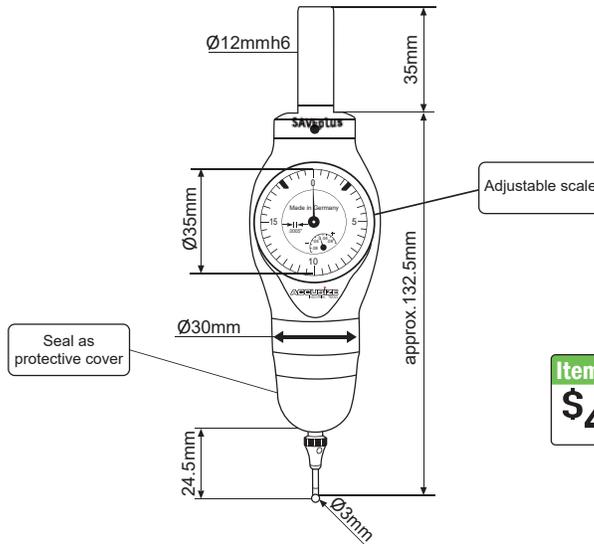
- Repeatability $\pm 0.01\text{mm}$
- Usable with ceramic probe tips
- Adjustable scale

Delivery contains:

- 3mm ceramic probe tip

Specification:

- Shank diameter: 1/2" (12mm)
- Shank length: 35mm
- Dial gauge diameter: 35mm
- Length when clamped: approx. 132.5mm
- Probing diameter: 30mm
- Probe tip length: 24.5mm
- Probe tip ball diameter: 3mm
- Graduation: 0.0005"
- Type: 3-D Tester
- Country of origin: GERMANY



GREAT ACCUSIZE
INDUSTRIAL TOOLS
ISO9001



Item #4920-1263
\$499⁰⁰
pc

3D TESTER DIGITAL WITH SHANK Ø1/2"

Advantages:

- Reliable reading thanks to the digital and analog gauge on one screen
- Repeatability $\pm 0.01\text{mm}$
- IP67 waterproof
- Can be used with Tschorn's well-known ceramic probe tipsamiktasteinsätzen
- With serial number and test certificate
- Automatic switch-off to save battery
- Country of origin: GERMANY



TSCHORN
Probes & Tools Technology



Item #4944-3012
\$849⁰⁰
pc

PROBE TIP CERAMIC Ø3MM UNIVERSAL FOR ALL TSCHORN 3D TESTERS & ACCUSIZE SAVEplus 3D TESTER

Specification:

- Probe tip ceramic
- Length: approx. 27mm
- Tester: Ø3mm
- Country of origin: GERMANY

TSCHORN
Probes & Tools Technology



Item #4916-3003
\$88⁰⁰
pc

PROBE TIP CERAMIC Ø6MM UNIVERSAL FOR ALL TSCHORN 3D TESTERS & ACCUSIZE SAVEplus 3D TESTER

Specification:

- Probe tip long ceramic
- Length: approx. 62mm
- Tester: Ø6mm
- Country of origin: GERMANY

TSCHORN
Probes & Tools Technology



Item #4916-3006
\$132⁰⁰
pc

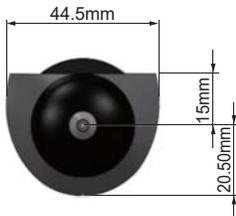
3D TESTER DREHplus V2 INCH WITH SHANK Ø3/4"

Delivery contains:

- 3D Tester including probe tip DREHplus, adjusting key, with a factory certificate

Specification:

- Shank diameter: 20mm
- Shank length: 42mm
- Dial gauge diameter: 37mm
- Probing diameter: 30mm
- Length when clamped: approx. 138mm
- Graduation: 1/100 mm
- Probe tip length: 30mm
- Tip size: 3 mm conical, precision grinded
- Tool Material:
Probe tip hardened stainless steel
Tester aluminum body
Shank hardened stainless steel
- Country of origin: GERMANY



- Width of the body: 44.5mm
- Distance from center of the shank to top edge of the body: 15mm
- Distance from the shank to the lower edge of the body: 20.50mm



Item #4940-0034
\$1048⁰⁰pc

3D TESTER INCH SLIMplus V2 WITH SHANK 1/2"

Specification:

- Brand: TSCHORN
- Shank diameter: 1/2" (12.7mm)
- Sensing tip: 0.11" (3mm)
- Graduation: 0.0005"
- Type: 3-D tester
- Display size: 1.47" (37mm)
- Length: 6.14" (156.5mm)
- Length without shank: 4.82" (122.5mm)
- Reading: 0-40
- Tip Size: 1.06" (27mm) long
- Tool material: solid carbide ball
- Weight: 1.27 lbs.
- Width: 1.75" (44.5mm)
- Country of origin: GERMANY

Item	Description	Price
4940-1215	White	\$729.00/PC
4940-1225	Black	\$729.00/PC



Advantages:

- Repeatability ±0.01mm
- IP67 waterproof
- Usable with our well-known ceramic probe tips
- With serial number and test certificate



3D TESTER INCH VIplus V2 WITH SHANK 1/2"

Advantages:

- Repeatability ±0.01mm
- IP67 waterproof
- Usable with our well-known ceramic probe tips
- With serial number and test certificate

Specification:

- Shank diameter: 1/2" (12.7mm)
- Sensing tip: 0.11" (3mm)
- Graduation: 0.01mm
- Type: 3-D tester
- Display size: 1.73" (44mm)
- Length: 6.96" (177.2mm)
- Length without shank: 5.91" (150mm)
- Tip size: 1.06" (27mm) long
- Tool material: solid carbide ball
- Width: 2.25" (57.2mm)
- Country of origin: GERMANY



Item #4940-1295
\$849⁰⁰pc



PROBE TIP LONG Ø56MM SENSING TIP TYPE, USE WITH SLIMplus EDGE FINDER

Specification:

- Length: approx. 62mm
- Tester: Ø56mm
- Country of origin: GERMANY



Item #4916-3056
\$348⁰⁰pc



IP54 SHOCKPROOF DIAL INDICATOR PREMIUM GRADE

GREAT

IP54

Features:

- IP54 water resistant.
- AGD2 style.
- Lug back with a 1/4" hole.
- Rotational bezel with a clamp for easy zero set.
- 2-1/4" dial face with a continuous dial.
- The carbide ball contact point provides durability and a long life.



Item	Range	Resolution	Stem Dia.	Price
P900-S160	0-1"	0.001"	3/8"	\$72.00/PC

IP54 SHOCKPROOF METRIC DIAL INDICATOR PREMIUM GRADE

IP54

Features:

- IP54 water resistant.
- Flat back.
- Rotational bezel with a clamp for easy zero set.
- 2-1/4" dial face with a continuous dial.
- Interchangeable hardened contact point.



Item	Range	Resolution	Stem Dia.	Price
P900-S002	0-10mm	0.01mm	8mm	\$72.00/PC

DIAL TEST INDICATOR

Features:

- Dovetails on top and back for all-around positioning.
- Includes two dovetail clamps (3/8" & 5/32").
- Fully jewelled movement.
- Contact points adjustable to 230°.



P900-S108

Item	Range	Resolution	Price
P900-S108	0.03"	0.0005"	\$65.00/PC
P900-S109	0.008"	0.0001"	\$99.00/PC

VERTICAL TEST INDICATOR

Features:

- Range x Graduation: 0.03 x 0.0005".
- Includes two dovetail clamps (3/8" & 5/32").
- Fully jewelled movement.



Item #S900-C118
\$79⁰⁰_{pc}

DIAL INDICATOR

Features:

- AGD2 style.
- Lug back with a 1/4" hole.
- Rotational bezel with a clamp for easy zero set.
- Interchangeable hardened contact point.
- Satin chrome finish.



P900-S097



P900-S102

Item	Range	Resolution	Price
P900-S097	0-0.05"	0.0001"	\$80.00/PC
P900-S098	0-1/4"	0.0005"	\$46.00/PC
P900-S099	0-1"	0.0005"	\$46.00/PC
P900-S100	0-1/4"	0.001"	\$43.00/PC
P900-S101	0-1/2"	0.001"	\$43.00/PC
P900-S102	0-1"	0.001"	\$43.00/PC
P900-S103	0-2"	0.001"	\$66.00/PC
P900-S112	0-2"	0.0005"	\$72.00/PC
P900-S104	0-3"	0.001"	\$245.00/PC
P900-S105	0-4"	0.001"	\$306.00/PC
P900-S001	0-10mm	0.01mm	\$46.00/PC

0-2" TRAVEL INDICATOR WITH EXTRA LARGE DIAL FACE

Features:

- AGD3 style.
- With an extra large 3" dial face for easy reading.
- 2" travel.
- Lug back with a 1/4" hole.
- Rotational bezel for easy zero-setting.
- Interchangeable hardened contact point.
- Satin chrome finish.



Item	Range	Resolution	Price
P900-S090	0-2"	0.001"	\$79.00/PC

BIG FACE DIAL TEST INDICATOR (1.5")

Features:

- Includes two dovetail clamps (3/8" & 5/32").
- Fully jewelled movement.



S990-C117



S900-C114

Item	Resolution	Travel	Deac.	Price
S900-C114	0.0005"/0.01mm	0.030"/0.8mm	Inch/Metric	\$105.00/PC
S990-C117	0.0005"	0.030"	Standard	\$83.00/PC

HORIZONTAL TEST INDICATOR

Features:

- Range: 0.060".
- Graduation: 0.0005".
- Dial reading: 0-15-0.
- Dial diameter: 1.5".
- Jewelled movement.
- 210° swivel arc.
- Revolution counter.
- Easy-to-read tilted dial.
- Tungsten carbide points: 0.040", 0.080" and 0.120" diameter.
- Includes two dovetail clamps (3/8" & 5/32").

GREAT



Item #0511-2001
\$141⁰⁰_{pc}

2PC PRECISION TOOLS IN PLASTIC BOX

Professional Universal Indicator Holder :

- Versatility in applications: alignment of work-spindle perpendicularity checking concentricity reading.
- Frame is designed with 3 bearing pads properly spaced and an opposite pressure screw securing the rigidity of the mounting.
- Does not disturb the working tool.
- Arm length from clamp 4-1/2".
- Clamping diameter: 1.9488" (49.5mm).
- Provides readings accurately and quickly without disturbing the workpiece.
- Accepts all indicators with 5/32" shanks or dovetails.
- Reach from 0-12" dia. larger reach is possible by replacing & using a longer rod.

GREAT

Features:

- 1pc 0.03" x 0.0005" dial test indicator (with 3/8" and 5/32" dovetail stems).
- 1pc professional universal indicator holder.
- In a fitted plastic case.



Item #P900-S186
\$105⁰⁰ set

UNIVERSAL INDICATOR HOLDER

Features:

- Clamping dia.: 1-7/8".
- Arm length from the clamp: 4-1/2".
- Provides accurate and quick readings.
- Accepts all indicators with 5/32" shanks or dovetails. Reach from 0-12" diameter.



Item #HE20-1501
\$38.00/PC

MINI UNIVERSAL INDICATOR HOLDER

Features:

- Reach from 0 to 12" diameter.
- A simplified version of the popular usage.
- Two holders in one: its parts allow it to be assembled as a cylinder holder.
- Three point adjustments.



Item #HE20-1502
\$38.00/PC

ZERO-SET

Features:

- Functions as a quick and practical work positioning device.
- Specially designed for test indicators to dovetails.



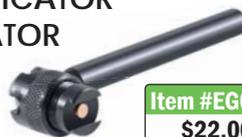
0511-0987

Item	Description	Price
0511-0986	Zero-set only	\$58.00/PC
0511-0987	Includes 0.03 x 0.0005" dial test indicator (#P900-S108)	\$120.00/SET

UNIVERSAL DOVETAIL INDICATOR HOLDER DIAL TEST INDICATOR ACCESSORY

Features:

- Shank diameter: 1/4".
 - Overall length: 3", with a 360° swivel.
 - A must for every Q.C. or production facility.
- Applications:
- Used with all test indicators & probes with dovetails.
 - Access places & angles that are hard to reach.
 - Easily held in a collet, chuck or height gage.



Item #EG01-5459
\$22.00/PC

DIAL BORE GAGE

Features:

- Chrome plated handle.
- Insulated grip.
- Self-centering.
- Easily adjustable.
- In a fitted plastic case.



EE20-5010



EE20-1006

Item	Range	Stem Length	Price
Inch			
EE20-5007	0.4-0.7" x 0.0005"	4"	\$165.00/SET
EE20-5015	0.7-1.5" x 0.0005"	6"	\$127.00/SET
EE20-5024	1.4-2.4" x 0.0005"	6"	\$127.00/SET
EE20-5006	2-6" x 0.0005"	6"	\$127.00/SET
EE20-5010	6-10" x 0.0005"	10"	\$173.00/SET
EE20-1006	2-6" x 0.0001"	6"	\$163.00/SET
EE20-1015	0.7-1.5" x 0.0001"	6"	\$163.00/SET
EE20-1024	1.4-2.4" x 0.0001"	6"	\$163.00/SET
Metric			
EG20-0018	10-18 mm x 0.01mm	100mm	\$165.00/SET
EG20-0035	18-35 mm x 0.01mm	150mm	\$127.00/SET
EG20-0050	35-50 mm x 0.01mm	150mm	\$127.00/SET
EG20-0160	50-160 mm x 0.01mm	150mm	\$127.00/SET



EE20-1006

EXTENDER DIAL BORE GAGE

Features:

- Combining two most popular bore gage ranges into one set by interchangeable contact point head.
- AGD group 2 dial indicator.
- The self-centering dial indicator is fully protected by the rugged cover.
- Insulated grip with chrome plated handle.
- Stainless steel ball contact point for durability.
- Includes indicating spacer and anvil sizes to select the specific range.
- In a fitted plastic case.



EE20-1406

Item	Range	Dial Indication	Price
EE20-1406	1.4-6"	0-0.25" x 0.0005"	\$174.00/SET
EE20-2416	1.4-6"	0-0.05" x 0.0001"	\$222.00/SET

ELECTRONIC DIGITAL BORE GAGE

Features:

- Same as the model above, yet includes a digital indicator. The benefits of the electronic indicator:
- Fast & easy inch/mm conversion.
 - No need for revolution counters.
 - Zero-setting function.
 - RS232 output.
 - Rapid display function.
 - Hold function.
 - Power supply: 3V CR2025.
 - In a fitted plastic case.



Item	Range	Stem Length	Price
EE20-5274	2-6" x 0.0005"	6"	\$229.00/SET

PREMIUM AUTOMOTIVE PRODUCT-DISC AND ROTOR / BALL JOINT GAGE SET

GREAT

Features:

- Checks ball joint wear, disc rotor runout, tire and wheel runout, gear backlash & valve guide wear, etc.
- 1pc 0-1" x 0.001" professional dial indicator, lug back.
- 1pc flexible stem holder, almost 360 degrees, length: 13.77".
- 1pc 7" locking plier.
- In a fitted plastic case.



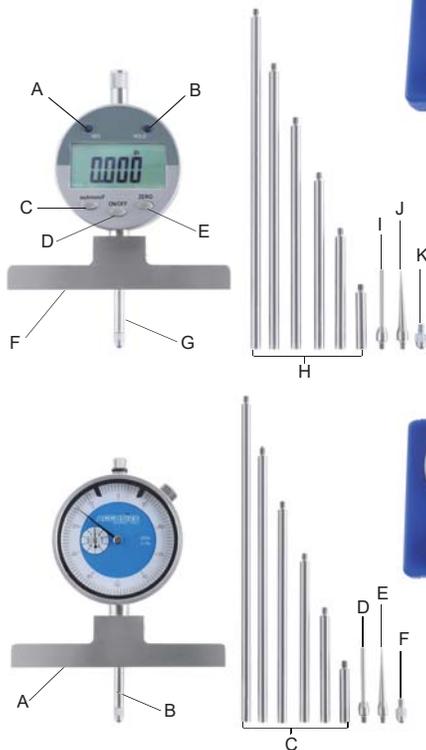
Item #0510-0916
\$108⁰⁰ Set



0-22" DEPTH GAGE

Features:

- Includes 2 additional points for small hole applications: 1pc 0.078" dia. point x 1" long, 1pc needle point x 1" long.
- 6 interchangeable rods: 1", 2", 3", 4", 5" & 6".
- Rods can be connected together for a full 0-22" capacity.
- Base: 4" length x 0.63" width.
- The base is made of hardened steel, ground, and micro-lapped for accuracy.
- Standard 4-48 thread removable carbide ball contact point.
- Power supply of #P103-0188: 3V CR2032.
- In a fitted plastic case.



- Parts Name:** P103-0188
- A: Absolute reading
 - B: Hold: retention of measurement data
 - C: Direct mm-in & frac conversion
 - D: ON/OFF
 - E: Floating zero
 - F: Measuring base
 - G: Plunger
 - H: Extension rods 1-6"
 - I: Spline point
 - J: Needle point
 - K: Ball point



- Parts Name:** P103-0189
- A: Measuring base
 - B: Plunger
 - C: Extension rods 1-6"
 - D: Spline point
 - E: Needle point
 - F: Ball point

Item	Range	Description	Resolution	Price
P103-0188	0-22"	5-key 0-1" Electronic Digital Indicator, with a 3/8" Stem	0.0005"/0.01mm	\$195.00/SET
P103-0189	0-22"	0-1" Travel Dial Indicator, with a 3/8" Stem	0.001"	\$128.00/SET

3PC PROFESSIONAL PRECISION TOOLS IN PLASTIC BOX

Features:

- 1pc 0-1" x 0.001" dial indicator, lug back (#P900-S102).
- 1pc 0.03" x 0.0005" dial test indicator (with a 3/8" and a 5/32" dovetail stems) (#P900-S108).
- 1pc 30kg-pull mini mechanical universal magnetic stand, red, OAL of Stem: 5.90".
- In a fitted plastic case.



Item #0510-0518
\$161.00/SET

AUTOMOTIVE PRODUCT-DISC AND ROTOR / BALL JOINT GAGE

Features:

- Checks ball joint wear and disc rotor runout.
- 0-1" x 0.001" dial gage, flexible arm and vise grip.
- Checks tire and wheel runout, gear backlash & valve guide wear, etc.
- Complies with province inspection requirements.
- Indicator feature: 0-1" x 0.001" (#P900-S102).
- Flexible stem holder, almost 360 degree, length: 13.77".
- 7" locking plier for holding and clamping objects regardless of shapes or sizes.
- In a fitted plastic case.

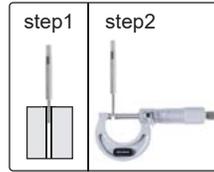


Item #0510-0917
\$98.00/SET

4PC/SET SMALL HOLE GAGE

Features:

- Satin chrome finish, completely assembled with handles.
- Knurled lock maintains the setting of the measuring arms to permit sizing with a micrometer or caliper.
- In a fitted plastic case.

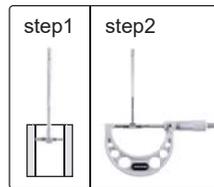


Item	Description	Total Range	Gages Included	Price
3604-5001	Full ball	1/8"-1/2"	1/8"~1/5", 1/5"~3/10", 3/10"~2/5", & 2/5"~1/2"	\$32.00/SET

6PC/SET TELESCOPING GAGE WITH SELF-CENTERING DOUBLE-ACTION SYSTEM

Features:

- Nickel finish.
- Contact points are hardened tool steel and precision ground at the end measuring radius.
- Rigid handles with self-centering system.
- Smooth and constant spring tension.

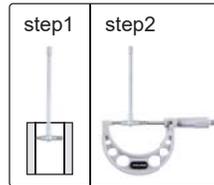


Item	Total Range	Gages Included	Price
3602-5011	5/16"-6"	5/16"~1/2", 1/2"~3/4", 3/4"~1-1/4", 1-1/4"~2-1/8", 2-1/8"~3-1/2", & 3-1/2"~6"	\$37.00/SET

6PC/SET PREMIUM TELESCOPING GAGE, SATIN CHROME FINISH

Features:

- Satin chrome finish.
- Contact points are hardened tool steel and precision ground at the end measuring radius.
- Rigid handles with self-centering system.
- Smooth and constant spring tension.
- In a fitted plastic case.

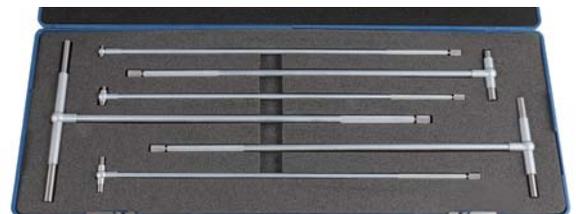
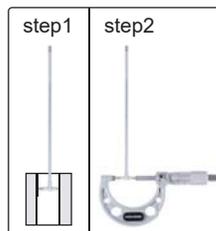
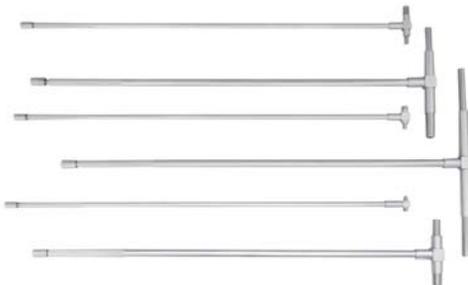


Item	Total Range	Gages Included	Price
3602-5018	5/16"-6"	5/16"~1/2", 1/2"~3/4", 3/4"~1-1/4", 1-1/4"~2-1/8", 2-1/8"~3-1/2", & 3-1/2"~6"	\$65.00/SET

6PC/SET 12" LONG REACH TELESCOPING GAGE

Features:

- Satin chrome finish.
- Self-centering and double-action allow checking inside measurements quickly.
- Rigid handles with smooth movement.
- Constant spring tension for a uniform feel.
- Contact point ends are hardened tool steel with the precision ground on a radius of the smallest hole the gauge will enter.
- In a fitted plastic case.



Item	Total Range	Gages Included	Price
3602-5012	5/16"-6"	5/16"~1/2", 1/2"~3/4", 3/4"~1-1/4", 1-1/4"~2-1/8", 2-1/8"~3-1/2", & 3-1/2"~6"	\$108.00/SET

MINI UNIVERSAL MAGNETIC BASE

Features:

- Saves time and improves accuracy.
- Strong magnet with 44lbs. of holding power.
- Zinc die-cast housing.
- Size: 4" x 1" x 1".
- 6 accessory mounting locations:
3 positions 1/4"-20 for lug mounts.
1 tapped hole 10-32.
1 reamer hole 3/8" diameter.
1 v-shaped hole in the back: 1/8-5/16".



Item	Description	Price
EG08-0016	Mini Universal Magnetic Base	\$22.00/PC
EG08-0017	Mini Universal Magnetic Base with 0-1" x 0.001" Dial Indicator (#P900-S102)	\$66.00/SET

MAGNETIC BACK FOR DIAL INDICATOR (DIRECT MOUNT)

Features:

- Permanent powerful magnet.
- Size: 2-1/4" diameter x 9/16" thickness.
- Attaches to the back of a 2" diameter dial indicator.
- Strong magnet with 44lbs. of holding power.



Item	Description	Price
EG08-1605	Magnetic Back Only	\$25.00/PC
EG08-1600	Magnetic Back with 0-1" x 0.001" Dial Indicator (#P900-S102)	\$66.00/SET



MAGNETIC BASE

Features:

- ON/OFF switch.
- **110lbs.** of permanent magnetic holding power.
- Base: 2.28"L(58mm) x 1.96"W(50mm) x 2.16"H(55mm).

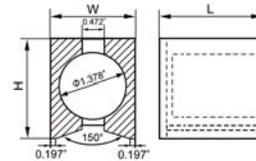


Item	Style	Price
P900-S301	Fine Adjustment	\$32.00/PC
P900-S300	Standard	\$32.00/PC

ON/OFF TYPE MAGNETIC BASE

Features:

- Strong grip on round and flat surfaces.
- V-Groove bottom.
- On/off switch.
- Tapped hole: M8 x 1.25mm.



Item	Length (L)	Width (W)	Height (h)	Magnetic Pull	Price
6010-0121	2.362" (60mm)	1.968" (50mm)	2.165" (55mm)	176lbs	\$32.00/PC
6010-0141	4.645" (118mm)	1.968" (50mm)	2.165" (55mm)	264lbs	\$44.00/PC

KING SIZE, SUPER-PULL MAGNETIC BASE

Features:

- **220lbs. pull.**
- Furnished with one main post and two separate posts for maximum flexibility.
- Accepts all AGD indicators with stems of 5/32" & 3/8" in diameter.



Specifications:

- Base: 2.95"L(75mm) x 1.96"W(50mm) x 2.16"H(55mm).
- Main post: 0.472" x 6.929".
- Secondary post: 0.393" x 6.496".
- Third post: 0.393" x 5.905".

Item #P900-S303
\$55.00/PC

MEASURING TOOL SET IN PLASTIC BOX

2PC MEASURING TOOL SET

GREAT

Features:

- 60kg magnetic base with fine adjustment.
- 1pc 0-1" x 0.001" dial indicator.
- In a fitted plastic case.

Item #EG00-1038
\$75⁰⁰ set



3PC MEASURING TOOL SET

Features:

- 60kg magnetic base with fine adjustment.
- 1pc 0-1" x 0.001" dial Indicator.
- 22 pcs/set indicator point kit.
- In a fitted plastic case.

Item #EG01-1039
\$91⁰⁰ set



FLEXIBLE MAGNETIC BASE

Features:

- **176lbs. pull.**
- Indicator holding power.
- On/off lever control.
- Stem flexes almost 360°.
- Quick-locking collar makes the stem go rigid.
- Stem components are hardened for rugged use.



Item	Description	Price
P900-S304	Flexible Magnetic Base	\$55.00/PC
P900-S342	Flexible Magnetic Base with 0-1" x 0.001" Dial Indicator (#P900-S102)	\$95.00/SET

U.S. & METRIC THREAD MEASURING WIRE SET

Features:

- 48 pieces, 16 different sizes, for 60° threads.
- Measure all threads from 3 to 48 threads per inch and all metric from 0.5mm to 6mm pitch.
- Three-wire method to measure external threads.
- Wires are fitted in a plastic case stamped with sizes.
- Laminated chart is compiled from the U.S. standard handbook.
- Provides proper sizes & measurements over wires.

Item #EG06-1002
\$37.00/SET



22PC INDICATOR POINT KIT

Features:

- Assorted points that fit most American and drop indicators.
- AGD specification.
- 4-48 thread.
- In a fitted case.

Item #EG03-0100
\$18.00/SET



36PC STEEL GAGE BLOCK SET, GRADE AS-2, ASME B89.1.9-2002, WITH MFG'S CERTIFICATE

Features:

- Manufactured under carefully controlled conditions, allowing for the highest degree of accuracy when used at a temperature of 68 degrees F (20 C).
- Each gage block is assigned a serial number; each set comes with a certificate of inspection listing the deviation for each block.
- Each gage block set meets or exceeds federal specification ASME B89.1.9-2002.
- Hardened to HRC 64.
- All gage block sets are made to a special standard to resist corrosion and defacement.
- Each set comes with a fitted wooden case.

ISO9001

Item	PCS.	Grade	Price
0036-6001	36	AS-2	\$186.00/SET

Specifications:

Stepping	Nominal Dimensions	NO. of Block
—	0.050"	1
0.0001"	0.1001" to 0.1009"	9
0.001"	0.101" to 0.109"	9
0.01"	0.110" to 0.190"	9
0.10"	0.100" to 0.500"	5
—	1"	1
—	2"	1
—	4"	1
Total		36

0036-6001



New Grade ASME B89.1.9-2002

Nominal Size	Tolerances (in Millionths of an inch)		
	AS-1	AS-2	B
Thru 0.050"	±12	±24	±50
Thru 0.400"	±8	±18	±50
Thru 1"	±12	±24	±50
Thru 2"	±16	±32	±50
Thru 3"	±20	±40	±50
Thru 4"	±24	±48	±50

81PC STEEL GAGE BLOCK SET, WITH MFG'S CERTIFICATE

Item	PCS.	Grade	Price
P900-S581	81	B	\$249.00/SET
P900-S583	81	AS-2	\$360.00/SET
P900-S582	81	AS-1	\$538.00/SET

Specifications:

Stepping	Nominal Dimensions	NO. of Block
0.0001"	0.1001" to 0.1009"	9
0.001"	0.101" to 0.149"	49
0.050"	0.050" to 0.950"	19
1"	1" to 4"	4
Total		81

ISO9001

GREAT

P900-S583



87PC METRIC GAGE BLOCK SET, DIN861 GERMANY STANDARD, WITH MFG'S CERTIFICATE

Features:

- Manufactured under carefully controlled conditions, allowing for the highest degree of accuracy when used at a temperature of 68 degrees F (20 C).
- Each gage block is assigned a serial number; each set comes with a certificate of inspection listing the deviation for each block.
- Each gage block set meets or exceeds specification DIN861.
- Surface hardness: HRC 64.
- All gage block sets are made to a special standard to resist corrosion and defacement.
- Each set comes with a fitted wooden case.

ISO9001

Nominal Size	Tolerance in microns (0.001mm)		
	DIN861 Grade 0	DIN861 Grade 1	DIN861 Grade 2
10mm or less	±0.12	±0.20	±0.45
10-25mm	±0.14	±0.30	±0.60
25-50mm	±0.20	±0.40	±0.80
50-75mm	±0.25	±0.50	±1.00
75-100mm	±0.30	±0.60	±1.20

Specifications:

Stepping	Nominal Dimensions	NO. of Block
0.001mm	1.001 to 1.009mm	9
0.01mm	1.01 to 1.49mm	49
0.5mm	0.5 to 9.5mm	19
10mm	10 to 100mm	10
Total		87

Item	PCS.	Grade	Price
0087-2160	87	2	\$409.00/SET
0087-2161	87	1	\$780.00/SET
0087-2162	87	0	\$1,145.00/SET

0087-2160



36PC STEEL SPACER BLOCK SET

Features:

- Accuracy: ±0.0001".
- Hardened to HRC 57-60.
- 3/4" diameter, 1/4"-28 I.D. thread.
- Each block is clearly marked for size.
- Hardened and lapped.
- Four connecting screws included to make any length desired.
- In a fitted plastic case.



36-pc set:

- 9 blocks: 0.101" to 0.109" by 0.001".
- 15 blocks: 0.050" to 0.190" by 0.010".
- 9 blocks: 0.200" to 1.000" by 0.100".
- 1 block: 0.0625".
- 1 block: 0.125".
- 1 extra block: 1.000".
- 4 screws for connecting spacer blocks and hex keys.



Item #3604-7001
\$129.00/SET

PIN GAGE SET

GREAT

Features:

- Class ZZ.
- Each gage is electro-etched with size.
- Tolerance: Minus set: +0.0000" / -0.0002".
Plus set: +0.0002" / -0.0000".
- Each gage is 2" long, centerless lapped.
- Hardness: Heat-treated to a hardness of 60-62 Rockwell C drill rod.
- Finish: Each gage has a 10 micro finish or better.
- Supplied in a fitted case.



P2(+)



P0(+)



M3(-)

Item	Range	Qty	Type of Case	Accuracy	Price
M0(-)	0.011"-0.060"	50	plastic case	+0.0000" / -0.0002"	\$53.00/SET
M1(-)	0.061"-0.250"	190	plastic case		\$114.00/SET
M1(-)A	0.061"-0.250"	190	aluminum case		\$114.00/SET
M2(-)	0.251"-0.500"	250	plastic case		\$219.00/SET
M2(-)A	0.251"-0.500"	250	aluminum case		\$219.00/SET
M3(-)	0.501"-0.625"	125	plastic case		\$227.00/SET
M4(-)	0.626"-0.750"	125	plastic case		\$270.00/SET
M5(-)	0.751"-0.832"	82	plastic case	\$270.00/SET	
M6(-)	0.833"-0.916"	84	plastic case	\$329.00/SET	
M7(-)	0.917"-1.000"	84	plastic case	\$354.00/SET	
P0(+)	0.011"-0.060"	50	plastic case	+0.0002" / -0.0000"	\$53.00/SET
P1(+)	0.061"-0.250"	190	plastic case		\$114.00/SET
P2(+)	0.251"-0.500"	250	plastic case		\$219.00/SET
P3(+)	0.501"-0.625"	125	plastic case		\$227.00/SET
P4(+)	0.626"-0.750"	125	plastic case		\$270.00/SET
P5(+)	0.751"-0.832"	82	plastic case		\$270.00/SET
P6(+)	0.833"-0.916"	84	plastic case		\$329.00/SET
P7(+)	0.917"-1.000"	84	plastic case	\$354.00/SET	



M1(-)A

GO/NO GO DOUBLE END GAGE HANDLE

Features:

- Size range eliminates set-up time.
- No need for extra handles or bushings.
- One handle can cover the entire range of a pin gage set.

Item	Range	Price
3350-0100	0.011" - 0.060"	\$22.00/PC
3350-0101	0.061" - 0.250"	\$28.00/PC
3350-0102	0.251" - 0.500"	\$33.00/PC
3350-0103	0.501" - 0.625"	\$33.00/PC
3350-0104	0.626" - 0.750"	\$36.30/PC
3350-0105	0.751" - 0.832"	\$39.60/PC
3350-0106	0.833" - 1.000"	\$39.60/PC



MEYER CLASS Z PIN GAGE SETS (INCH) WITH NIST CERTIFICATE, MADE IN USA



Description:

- About Meyer Class Z Pin Gage Sets:
Meyer started making the original ZZ back in 1965 and their competition has tried, but can't copy the quality of these affordable pin gage sets. Meyer now has taken the extra step for the better pin gage, Class Z.
- Introducing the Meyer Class Z:
A closer tolerance (0.0001), is more accurate, and better for your needs.



Made in USA



Here is a comparison of Class ZZ and the Class Z gage pin specifications:

Comparison	Class ZZ	Class Z
Size deviation:	0.0002"	0.0001"
Roundness geometry:	0.0001"	0.00005"
Surface finish:	10 micro	8 micro

The Meyer Gage Class Z gage pin will meet or exceed the requirements of Class ZZ, and can replace the Class ZZ in any situation or application.

MEM1-CZIN

Features:

- Boxes and gages both marked
- Each set is carefully packaged in a durable, compact case, making them easy to store and transport to the point of use
- Size and serial number laser etched on each piece (**MEP0-CZIN, MEM0-CZIN, M05P-CZIN, M05M-CZIN not etched**)
- Material: 52100 Bearing Steel
- No sharp edges
- All members 2" long
- Country of origin: USA

Finish:

- Each gage is inspected and has a 8 microfinish or better
- Heat treated to a hardness of 60-62 Rockwell C
- All English gages with 0.0001" limit

Uses:

- Checking locations
- Measuring hole sizes
- GO & NOGO gaging
- Setting micrometers
- Checking distances between holes

By investing in Meyer English Class Z Pin Gage Sets, you can:

- Improve the accuracy and consistency of your quality control processes
- Reduce the risk of defective parts and associated costs
- Enhance customer satisfaction through the delivery of high-quality products
- Streamline your inspection and measurement processes, increasing efficiency and productivity

Accusize Item#	Meyer Item#	Tolerance Direction	Size Range	No. of Gages
MEM0-CZIN	M0M	Minus	0.011" to 0.060"	50
M05M-CZIN	M05M		0.0115" to 0.0605"	50
C10M-CZIN	C10M		0.011" to 0.250"	240
105M-CZIN	C105M		0.0115" to 0.2505"	240
MEM1-CZIN	M1M		0.061" to 0.250"	190
M15M-CZIN	M15M		0.0615" to 0.2505"	190
MEM2-CZIN	M2M		0.251" to 0.500"	250
M25M-CZIN	M25M		0.2515" to 0.5005"	250
MEM3-CZIN	M3M		0.501" to 0.625"	125
M35M-CZIN	M35M		0.5015" to 0.6255"	125
MEM4-CZIN	M4M		0.626" to 0.750"	125
M45M-CZIN	M45M		0.6265" to 0.7505"	125
MEM5-CZIN	M5M		0.751" to 0.832"	82
M55M-CZIN	M55M		0.7515" to 0.8325"	82
MEM6-CZIN	M6M	0.833" to 0.916"	84	
M65M-CZIN	M65M	0.8335" to 0.9165"	84	
MEM7-CZIN	M7M	0.917" to 1.000"	84	
M75M-CZIN	M75M	0.9175" to 1.0005"	84	
MEP0-CZIN	M0P	Plus	0.011" to 0.060"	50
M05P-CZIN	M05P		0.0115" to 0.0605"	50
C10P-CZIN	C10P		0.011" to 0.250"	240
105P-CZIN	C105P		0.0115" to 0.2505"	240
MEP1-CZIN	M1P		0.061" to 0.250"	190
M15P-CZIN	M15P		0.0615" to 0.2505"	190
MEP2-CZIN	M2P		0.251" to 0.500"	250
M25P-CZIN	M25P		0.2515" to 0.5005"	250
MEP3-CZIN	M3P		0.501" to 0.625"	125
M35P-CZIN	M35P		0.5015" to 0.6255"	125
MEP4-CZIN	M4P		0.626" to 0.750"	125
M45P-CZIN	M45P		0.6265" to 0.7505"	125
MEP5-CZIN	M5P		0.751" to 0.832"	82
M55P-CZIN	M55P		0.7515" to 0.8325"	82
MEP6-CZIN	M6P	0.833" to 0.916"	84	
M65P-CZIN	M65P	0.8335" to 0.9165"	84	
MEP7-CZIN	M7P	0.917" to 1.000"	84	
M75P-CZIN	M75P	0.9175" to 1.0005"	84	

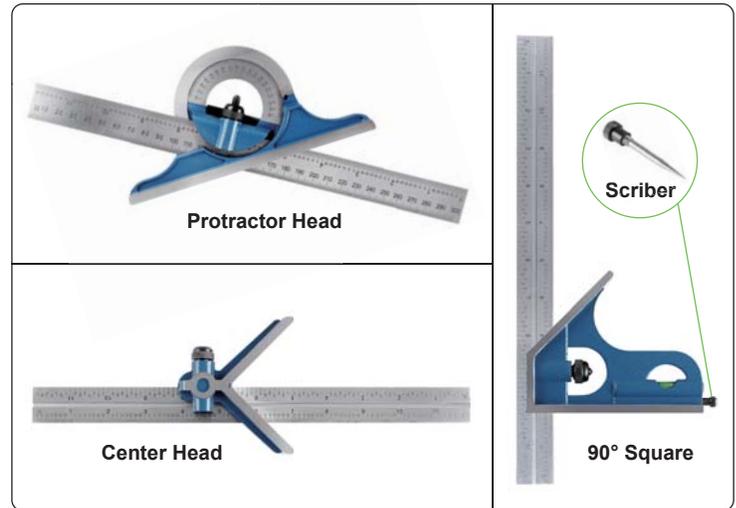
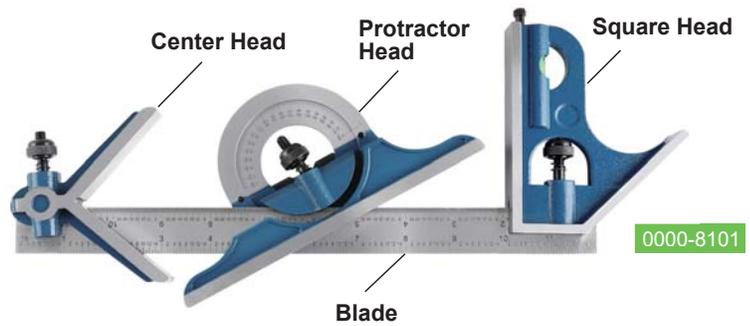
Check price on www.accusizetools.com

PREMIUM STEEL COMBINATION SQUARE SET

GREAT

Features:

- Used for set-up, layout, checking heights, depths and angles, etc.
- All heads made of cast steel with a better surface and hardness.
- Blades are fully hardened and tempered.
- Each square head has a level & a scriber point.
- Micro-fine blade graduations.
- Easy-to-read satin chrome finish blade.
- 4R graduation: 8ths, 16ths, 32nds, & 64ths.
- E/M graduation: 32nds, 64ths, 0.5mm, & 1mm.
- In a fitted plastic case.



Item	Description	Blade	Graduation	Price
0000-8101	4pcs/set	12"	4R	\$128.00/SET
0000-8108	4pcs/set	12"/300mm	E/M	\$128.00/SET

3PC COMBINATION SQUARE SET

Features:

- Used for set-up, layout, checking heights, depths and angles, etc.
- Blades are fully hardened and tempered.
- Each square head has a level & a scriber point.
- Micro-fine blade graduations.
- Easy-to-read satin chrome finish blade.
- 4R graduation: 8ths, 16ths, 32nds, & 64ths.
- Each set includes: a blade, a square head and a center head.
- In a fitted plastic case.



Item	Description	Blade	Graduation	Price
0000-8100	3pcs/set	6"	4R	\$88.00/SET

INDIVIDUAL BLADE FOR COMBINATION SQUARE SET



Features:

- Hardened satin chrome finish.
- 4R graduation: 8ths, 16ths, 32nds & 64ths.
- E/M graduation: 32nds, 64ths, 0.5mm, & 1mm.

EG02-0341

Item	Blade	Graduation	Width	Price
EG02-0338	6"	4R	3/4"	\$13.20/PC
EG02-0340	12"	4R	1"	\$16.50/PC
EG02-0341	12"/300mm	E/M	1"	\$16.50/PC

4PC ELECTRONIC DIGITAL COMBINATION SQUARE SET



Features:

- Used for set-up, layout, checking heights, depths and angles, etc.
- Higher accuracy with electronic digital protractor newly applied.
- All heads are made of pro-coated mold with better surface and hardness.
- Each square head has a level & a scriber point.
- Micro-fine blade graduations.
- Distinct lines and figures against the satin chrome finish making reading easy.
- Low surface roughness and high accuracy, with surfaces precisely ground.
- E/M graduation: 32nds, 64ths, 0.5mm, & 1mm.
- In a fitted plastic case.

Item	Blade	Graduation	Accuracy	Price
0000-8112	12"/300mm	E/M	±10' within 0.15°	\$189.00/SET

DIAL READING BEVEL PROTRACTOR

ISO9001

Features:

- Useful and accurate setting tool for bevel, transferring angles and many other applications.
- Measuring range: 4 x 90°.
- Each blade is secured firmly by the lock nut at an angle.
- Dial window displays readout of each 10°.
- Indicator pointer shows each degree and each 5 minutes of angle.
- Includes 6" & 12" blades, and an acute angle attachment.
- In a fitted plastic case.

Item #S855-3012
\$198⁰⁰
set



UNIVERSAL DIAL AND BEVEL PROTRACTOR INCLUDES BOTH 6" & 12" BLADES

ISO9001

Features:

- Hardened stainless steel.
- Satin chrome finish.
- Graduation: 360°.
- Bevel protractor includes a magnifier for vernier.
- Measuring precision: 5 minutes.
- Includes a lock and an acute angle attachment.
- In a fitted plastic case.

Item #S855-C802
\$128⁰⁰
set



ELECTRONIC DIGITAL UNIVERSAL BEVEL PROTRACTOR

ISO9001

Features:

- Displaying degrees, minutes, seconds and decimal degrees simultaneously.
- Measuring range: 0-360°.
- Resolution: 10"/0.005°.
- Accuracy: ±5'.
- LCD.
- Range selection: 1x360°, 2x180°, & 4x90°.
- On/off switch.
- Reset/preset.
- Reversible measurement direction.
- Fine adjustment with 360° range.
- Power supply: 3V CR2032.
- In a fitted plastic case.

Item #S907-C885
\$570⁰⁰
set



STAINLESS STEEL PROTRACTOR

Features:

- Useful and accurate tools for setting levels, transferring angles and many other applications.
- Measuring angles from 0-180 degree.
- The blade is secured firmly by the lock nut at any angle.

Item	Head	Price
3607-1017	Square	\$16.50/PC
3607-1018	Round	\$16.50/PC



MINI DIGITAL ANGLE PROTRACTOR 0-360°, MAGNETIC BASE

Features:

- Small, light (about 127g) and portable.
- Large LCD for reading.
- Measure data holding.
- Magnet in measuring face can be easily attracted to the object to be measured.
- Display always reads upright, no matter which way the mini protractor is turned.
- Degree and slope conversion.
- Auto power off, low battery warning.
- Measuring range: 4 x 90°.
- Resolution: 0.1°.
- Working temperature: 0°C~40°C.
- Relative humidity: 40%~80%.
- Dimension: 2" x 2" x 1".
- Power supply: 3V CR2032.



Item #D810-1000
\$76⁰⁰
pc

PRECISION STEEL RULER

Features:

- Constructed of hardened stainless steel.
- Etched black numerals and graduations are easy to read.
- 4R Graduations: 8ths, 16ths, 32nds, and 64ths.



EG06-4008

Item	Grad	L. x W.	Thickness	Price
EG06-4008	4R	6" x 3/4"	0.032"	\$3.30/PC
EG06-4014	4R	12" x 1"	0.040"	\$5.50/PC

STEEL STRAIGHT EDGES

Features:

- Constructed from high-quality heat-treated steel.
- Accurate reference line and may be used for checking surface for straightness.
- Precision ground on one side to 0.001".
- Thickness: 1/4".
- Convenient hang hole provided on one end.
- Non graduated.
- In a fitted wood case.

0001-0024

Item	Length	Price
0001-0024	24"	\$99.00/PC
0001-0036	36"	\$146.00/PC

RADIUS GAGE SET

Features:

- The accuracy of 3602-5021:
1/64"-7/64": ±0.0008"
1/8"-15/64": ±0.0010"
1/4"-3/8": ±0.0012"
13/32"-1/2": ±0.0014"
- Satin chrome finish
- Each gauge is individually marked
- Rust proof steel
- Supplied in a fitted case

3602-5021



Item	Range	Price
3602-5021	25pcs set: 1/64"-17/64" by 64ths & 9/32"-1/2" by 32nds with a holder	\$52.00/SET
3602-5026	26pcs set: 0.5mm-13mm by 0.5mm with a holder	\$53.00/SET
3602-5022	8pcs set: 9/16"-1" by 16ths without holders	\$80.00/SET
3602-5025	26pcs set: 0.010"-0.500" with a holder	\$66.00/SET
3602-5023	8pcs set: 1-1/16"-1-1/2" by 16ths without a holder	\$163.00/SET

29 DEGREE ACME SCREW THREAD GAUGE GAGE TOOL GRINDING

Features:

- For grinding & setting tools when cutting acme threads whose sides have an inclination of 14-1/2°.
- Made from stainless steel with satin chrome finish.
- Angles and edges of gages are hardened and ground.
- Trapezoidal thread gauges: (1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, & 10TPI).
- Angle: 29°.
- Supplied in a fitted case.



Item #8207-5640

\$22⁰⁰
PC

NON-FERROUS & SHEET METAL GAGE TOOL

Features:

- Hardened & tempered steel.
- 3-1/4" diameter.
- For gaging non-ferrous wire and metal such as copper, brass, etc.
- Supplied in a fitted case.

Item #8207-1020

\$35⁰⁰
PC



60° CENTER GAGE

Features:

- Has three 60 degree notched angles.
- Used in gauging or setting screw cutting tools.
- Supplied in a fitted case.



Item #A852-6002

\$9⁹⁰
PC

18PC ANGLE GAGE SET

Features:

- Manufactured from stainless steel, satin finish.
- 18pc individual gages for easy use.
- Eight gaging surfaces per gage.
- Precision finished edges for accurate checking.
- Each gage checks primary, 1/2 primary and supplementary angles.
- Quick and accurate inspection of angles and I.D. or O.D. chamfers in or out of the machine.
- Positioning of lathe tools for chamfers.
- Inspecting angles on ground from tools and cutters.
- Fast set-up and fixturing of workpiece.
- Indispensable for every inspector, toolmaker, machinist, layout and draftsman.
- Supplied in a fitted case.



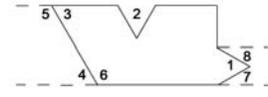
Item #3602-5050

\$45.00/SET



Type A

Angles 1 & 2 are primary
Angle 3 is supplementary
Angles 4 & 5 are 1/2 primary



Type B

Angles 1, 2, 3 & 4 are primary
Angles 5 & 6 are supplementary
Angles 7 & 8 are 1/2 primary

Primary Angle	1/2 Primary Angle	Supp. Angle	Type
5°	2°30'	175°	A
10°	5°	170°	A
15°	7°30'	165°	A
20°	10°	160°	B
25°	12°30'	155°	B
30°	15°	150°	B
35°	17°30'	145°	B
40°	20°	140°	B
45°	22°30'	135°	B
50°	25°	130°	B
55°	27°30'	125°	B
60°	30°	120°	B
65°	32°30'	115°	B
70°	35°	110°	B
75°	37°30'	105°	B
80°	40°	100°	B
85°	42°30'	95°	B
90°	45°	90°	B

SCREW PITCH GAGE 60°

Inch:

- 30 blades: 4-42TPI.
- U.S. standard 60 degree.
- Precisely ground and finished.
- Blades marked with thread sizes.

Item #8207-5642

\$15.40/PC

Metric:

- 20 blades: 0.4-7mm.
- Metric 60 degree.
- Blades marked with thread sizes.
- Precisely ground and finished.

Item #8206-0321

\$15.40/PC



8207-5642



26PC THICKNESS GAGE SET

Features:

- 26 blades: 0.0015-0.025".
- The exact thickness is marked on each blade.
- Supplied in a fitted case.

Item #8202-5031

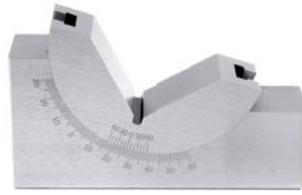
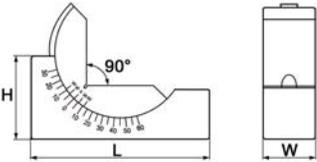
\$13.20/SET



0-60° PRECISION ANGLE BLOCK

Features:

- 0-60° adjustable angle by locking the hex screw on the bottom.
- Squariness 0.0002".
- Angle accuracy ±10 minutes.
- Angle of V: 90°.
- In a fitted plastic case.



3602-0091

Item	Length (L)	Width (W)	Height (H)	Price
3602-0092	2.953"	0.984"	1.299"	\$109.00/PC
3602-0091	4.015"	1.181"	1.811"	\$119.00/PC

3PC PRECISION TOOL SET

Features:

- 6" dial caliper: 0.001" resolution, stainless steel (#P920-S216).
- 0-1" outside micrometer: 0.0001" resolution (#EG00-0001).
- Rule: 6" rigid with 4R graduation, satin chrome finish. (#EG06-4008)
- In a fitted plastic case.



Item #3600-1035
\$123.00/SET

QUILL STOP

Features:

- Quick action clip.
- Easily installed, quickly moved.
- Clips on quill easily for rapid depth setting.
- Top or bottom positioning.
- 0.020" fine adjustment.
- Fits all Bridgeport and any other mills with a 1/2"-20 stop rod.



Item #0021-0381
\$13.20/PC

MACHINE COUNTER

Features:

- Registers 0 to 99999.
- Knob resets to zero.
- One count per 45° stroke of shaft lever.
- The arm may be set in any position, and the spring allows for variations in alignment.
- Five-digit counter has clear white numerals, no-glare black finish, chrome-plated arm and spring for rust-free service.
- 4 flanged holes for rigid mounting.
- 15/16" high x 2-1/2" wide x 1-1/2" deep.



Item #P340-S005
\$13.20/PC

0.5" POCKET THICKNESS GAUGE

Features:

- Resolution: 0.001".
- Can be easily adjusted to zero by using the adjustment screw on the frame.
- Measuring faces are hardened, ground and lapped for accuracy.
- Stainless steel spindles.



Item	Range	Price
S906-C456	0-0.5"	\$88.00/PC

COLLET BLOCK CHUCK FOR 5C COLLETS

ISO9001

Applications:

- Designed for the popular 5C round, hex or square collets.
- An effective short-run jig for machining parallel, square, or hex shapes, as well as for cross hole drilling at 60°, 90°, or 120°.
- Blocks can be held directly on a magnetic chuck or in a machine vise.



Features:

- Each block weighs 1 lb and dimensions are approximately 1-3/4" x 1-3/4" x 2-3/4" long.
- Capacity: 1/16" thru 1-1/8".
- Made of high-quality tool steel, hardened.
- Precision ground, parallel and square to within 0.0005".

Set includes:

- 1pc square block, 1pc hex block, and 1pc lever operated closer.
- 2pcs nut closers.

Item #2250-2080
\$120.00/SET

SHORE HARDNESS TESTER

Shore A:

- Measuring range: 0-100 Shore A units.
- Indenture: flat cone point 35°.
- Measuring spring force: 0.55-8.065 N.
- Test pressure: 12.5 N.



AK07-8820

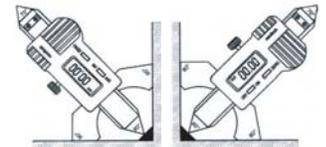
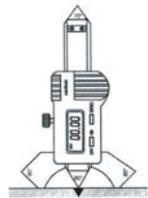
Shore D:

- Measuring range: 0-100 Shore D units.
- Indenture: cone point 30° angle.
- Measuring spring force: 4.45-44.5 N.
- Test pressure: 50 N.

Item	Description	Price
AK07-8820	Shore A Hardness Tester	\$145.00/PC
AK90-0336	Shore D Hardness Tester	\$145.00/PC

DIGITAL WELDED SEAM CALIPER

ISO9001



Features:

- Resolution: 0.0005"/0.01mm.
- Accuracy: ±0.0001"/0.01mm.
- Made of stainless steel.
- Provides a direct and clear display. Functions as a prompt transference of the digital system between metric and inch.
- The beam and the slider are entirely heat-treated. All the measuring faces are specially hardened and finished.
- Can check the range of the groove (the gauge has four angular templates: 60°, 70°, 80° and 90°).
- With RS232 output.
- Power supply: 1.5V SR44W.

Item	Range	Price
S906-C429	0-0.08"/0-20mm	\$102.00/PC

MASTER PRECISION LEVEL

GREAT

- Features:
- Adjustable main vial 0.0002"/10"
 - Base with a V-groove.
 - With cross test vial.
 - With insulating grip.
 - Robust cast iron body.
 - In a fitted plastic case.



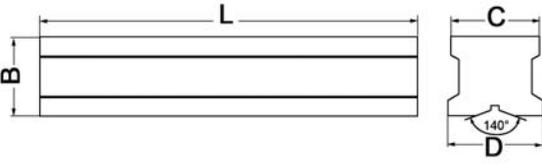
S908-C685



Item	Size	Accuracy	Price
S908-C684	6"	0.0002"/10"	\$128.00/PC
S908-C685	8"	0.0002"/10"	\$160.00/PC
S908-C687	12"	0.0002"/10"	\$185.00/PC

PROFESSIONAL MASTER PRECISION LEVEL

- Features:
- Adjustable main vial 0.0002"/10"
 - Base with a V-groove.
 - With cross test vial.
 - Robust cast iron body.
 - In a fitted wooden case.



S908-C608



Item	Size (L)	Accuracy	B	C	D	Price
S908-C606	6"	0.0002"/10"	1.830"	1.574"	1.732"	\$152.00/PC
S908-C608	8"	0.0002"/10"	1.830"	1.574"	1.890"	\$183.00/PC
S908-C612	12"	0.0002"/10"	1.830"	1.574"	1.890"	\$219.00/PC

MASTER FRAME SPIRIT LEVEL

- Features:
- Vial sensitivity: 0.0002"/10"
 - With cross test vial.
 - With insulating grip.
 - 2 faces with V-grooves, 2 flat faces.
 - Robust cast iron body.
 - In a fitted wooden case.



S908-C693



Item	Size	Price
S908-C692	6" x 6"	\$142.00/PC
S908-C693	8" x 8"	\$208.00/PC
S908-C695	12" x 12"	\$238.00/PC

PLANER & SHAPER GAGE

NEW

- Features:
- Accurate and quick way of setting tools in milling, planer, etc.
 - The platform has extra tapped holes to accommodate posts for a dial indicator and other accessories.
 - Precision level ensures accuracy.
 - Measuring range: 1/4" – 6-1/4"
 - Supplied with 1" and 3" extension posts, maximum height is 6-1/4"
 - Base size 18.5mm x 130mm / 0.728" x 5.118"
 - Material QT500 ductile iron, HRC 45-50.
 - Parallelism: 0.005mm / 0.0002"
 - Squareness: 0.005mm / 0.0002"
 - In a fitted aluminum case.



Item #0536-3608
\$208⁰⁰ set

ULTRA-PRECISION V-BLOCK & CLAMP SET

Features:

- Guaranteed square parallel & central within 0.0002".
- Hardened & ground to HRC52-58.
- 90° V-block.
- One reversible swing away clamp supplied with each V-block.
- Side slots for easy clamping.
- Supplied in pairs.

Item	Length	Width	Height	Price
3610-9011	1-3/8"	1-3/8"	1-3/16"	\$72.00/SET
3610-9012	2-3/8"	2-3/8"	2"	\$128.00/SET
3610-9013	4-1/8"	4-1/8"	3-1/16"	\$259.00/SET



3610-9013

MULTI-USE V-BLOCK & CLAMP SET

Features:

- Stepped groove construction permits low or high clamping.
- Holds square or round work.
- Hardened steel.
- Sold in matched pairs.
- All sides are precision ground, parallel, and square.
- Size: 2-3/8" x 2-3/4" x 2".
- Capacity: 2" round, 1-7/16" square.



Item #0303-0219
\$132⁰⁰ set

ALL-ANGLE V-BLOCK & CLAMP

Applications:

- For grinding, milling and drilling.

Features:

- Made of hardened and precision ground tool steel.
- All sides are parallel and the vee is central and ground.
- The central hole is provided for drilling or removing pins.
- The 'V' block has four 3/8"-16 tapped holes, two in the base and one on each side for angle iron clamping.
- Each block is provided with a black oxidized clamp.
- Parallelism tolerance of vee axis to base: within 0.0003"/8 microns.
- Dimensions: 3-5/8"L x 1-7/8"W x 1-7/8"H.
- Maximum capacity of vee: 1-5/16" diameter.



Item #3605-3050
\$109⁰⁰ set

MAGNETIC V-BLOCK

Applications:

- Ideal for holding round and irregular shapes for scribing, grinding, measuring, and machining.

Features:

- 145lbs of power holding force.
- Fine precision ground finish for use as an inspection device.
- Has a fixed On/Off switch.



EG08-1105

Item	Height	Width	Length	Price
EG08-1101	2-7/8"	2-3/8"	2-3/4"	\$78.00/PC
EG08-1105	3-3/4"	2-3/4"	4"	\$129.00/PC

ELECTRONIC EDGE FINDER WITH SOUND ALERT 3/4" x 7-1/2" T.I.R WITHIN 0.0002"



Features:

- One-piece construction for strength and accuracy.
- Repeatability T.I.R within 0.0002".
- Precision ground on all surfaces.
- Quickly locates work edges.
- Time-saving positioning.
- Tool steel hardened to HRC 60.
- High sensitivity probe for accurate positioning.
- Four highly visible lights.
- Both ends of the probe need to be in contact with a metal piece or a conductive material for the edge finder to light up.
- Shank Dia: 3/4".
- Probe Diameter: 0.394".
- Overall Length: 7-1/2".
- Power supply: 2pcs 1.5v LR1.

Item #0805-3015
\$102⁰⁰ pc

MACHINIST BENCH BLOCK

Features:

- The machinist bench block is a handy tool for holding work while driving pins, drilling, etc.;
- Made from steel hardened and ground.
- Diameters of the ground holes range from 1/8" to 5/8" (3-16mm).
- The knurled side provides an excellent gripping surface; V-groove across the face accommodates round and odd-shaped stock.



Item	Diameter	Height	Price
EG02-0628	3"	1-1/2"	\$55.00/PC

ELECTRONIC SHORT SHANK EDGE FINDER WITH SOUND ALERT



Features:

- One-piece construction for strength and accuracy.
- Repeatability T.I.R within 0.0002".
- Precision ground on all surfaces.
- Quickly locates work edges.
- Time-saving positioning.
- Highly visible LED lights.
- Power supply: 2pcs 1.5v LR1.

Item #C028-9273
\$76⁰⁰ pc

SPECIFICATION

Ball diameter.....	0.394"
Shank diameter.....	3/4"
Overall length.....	3.937"

PRECISION SCREWLESS VISE

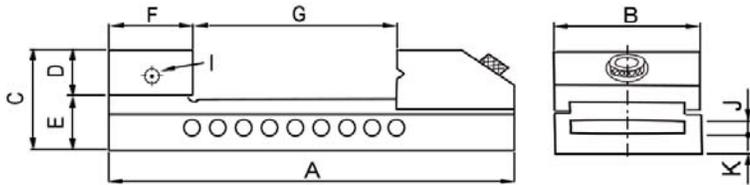
GREAT

Features:

- Made of high-quality steel, carburized to surface hardness: HRC 55-60.
- Parallelism 0.003mm/100mm, squareness 0.005mm/100mm.
- Quick clamping and easy operation.
- Used for precision measurement, inspection precision grinding, EDM, and wire-cutting machines.
- Guarantee high accuracy at any position.
- Material: 20 CrMnTi.
- Movable jaw pulls into base at 45 to 60° to ensure maximum holding power and hold down force, eliminating tilting and lifting.
- In a fitted plastic case.



0536-VB30



Item	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	I	J (mm)	K (mm)	Weight	Price
0536-VB25	175	63	63	32	31	35	0-90	M6	11	11	6.39lbs	\$139.00/PC
0536-VB30	190	73	70	35	35	35	0-100	M6	12	12	9.48lbs	\$150.00/PC
0536-VB35	235	88	80	40	40	40	0-130	M8	14	14	14.33lbs	\$274.00/PC



PRECISION TOOLMAKERS VISE

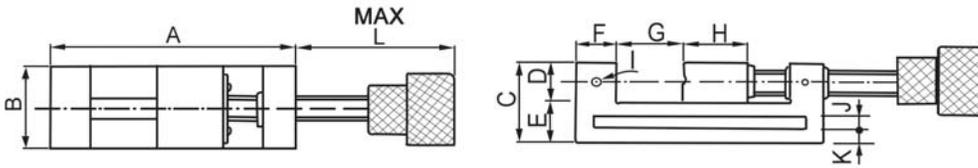
GREAT

Features:

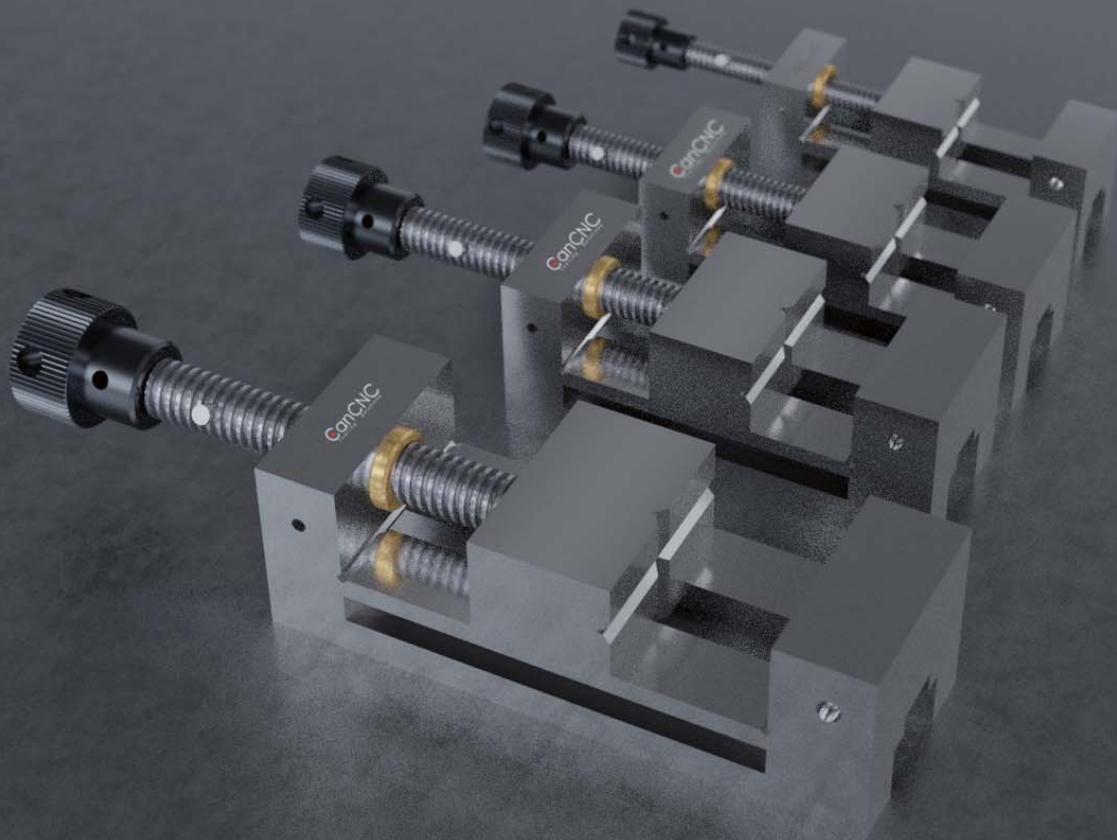
- Made of high-quality steel, carburized to surface hardness: HRC 55-60.
- Parallelism 0.003mm/100mm, squareness 0.005mm/100mm.
- Quick clamping and easy operation.
- Used for precision measurement, inspection precision grinding, EDM, and wire-cutting machines.
- Guarantee high accuracy in any position.
- Material: 20 CrMnTi.
- Has a ground "V" way, detachable replacement jaws.
- In a fitted plastic case.



0536-VS20



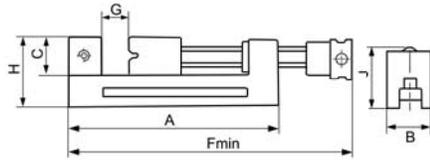
Item	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I	J (mm)	K (mm)	L (mm)	Weight	Price
0536-VS20	156	48	52	25	27	25	0-63	34	M6	8	8	125	5.07lbs	\$139.00/PC
0536-VS25	176	63	63	30	33	30	0-73	40	M6	11	11	147	8.82lbs	\$156.00/PC
0536-VS30	190	73	73	35	38	35	0-76	45	M6	12	12	151	12.13lbs	\$232.00/PC
0536-VS35	250	88	80	42	38	40	0-115	—	M8	—	—	—	22.05lbs	\$328.00/PC



PRECISION TOOLMAKERS VISE

Features:

- With a v-groove jaw.
- Hardened and ground HRC 58-62.
- Square and parallel within 0.0002".
- One-piece body construction.



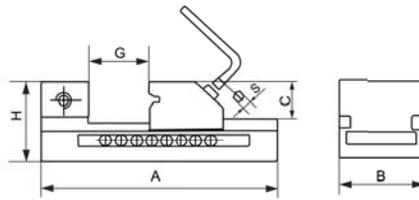
0235-0310

Item	Size	Vise Length (A)	B	H	Jaw Depth (C)	Jaw Opening (G)	F (min)	J	Price
0235-0310	2-3/8"	6.93"	2.48"	2.48"	1.26"	0-2.87"	8.70"	2.48"	\$141.00/PC
0235-0311	3-1/2"	9.65"	3.46"	3.15"	1.57"	0-5.00"	11.57"	3.15"	\$303.00/PC
0235-0312	4"	10.04"	3.86"	3.23"	1.65"	0-4.92"	12.01"	3.23"	\$343.00/PC

PRECISION SCREWLESS VISE

Features:

- Hardened and stabilized.
- Precision ground to a mirror finish.
- Simple operation and extremely versatile.
- Squareness and parallelism are approx. ±0.0002" on critical sides.



0235-0302

Item	Size	Total Length (A)	B	Total Ht. (H)	C	Jaw Opening (G)	S	Price
0235-0302	2"	5.91"	1.97"	2.09"	0.98"	0-3.15"	0.20"	\$114.00/PC
0235-0303	3"	7.48"	2.87"	2.76"	1.38"	0-3.94"	0.24"	\$145.00/PC
0235-0304	4"	9.65"	3.94"	3.54"	1.77"	0-5.12"	0.31"	\$306.00/PC

PRECISION SCREWLESS SINE VISE

Features:

- Provides quick and accurate means of holding a workpiece at an angle for machining, drilling and grinding.
- Accuracy is further enhanced by the fact that the center, distance between the holes is held within 0.0002".
- Small angles can be set easily and accurately by using standard gage block sets because of the built-in 0.200" minute steps.
- Made of hardened solid steel.
- All surfaces hardened and ground.
- Adjusts: 0-45°.



BA66-0420

Item	Dimension L x W x H	Center Distance of Roll	Sq. & Parallel	Jaw Capacity	Jaw Height	Price
BA66-0420	7.48" x 2.87" x 4.13"	5.000" within 0.0002"	0.0002"	0-3.94"	1.38"	\$296.00/PC
BA66-0425	11" x 4" x 4-5/8"	10.000" within 0.0002"	0.0003"	7"	1-7/16"	\$638.00/PC

MINI PRECISION TOOLMAKERS INSERT VISE

Features:

- Ideal for holding small parts and can be used either separately or held inside a larger vise
- Dimensions:
Jaw width: 1.023"
Jaw opening: 0.866"
Weight: 1.10lbs.
Jaw depth: 0.360"
Length: 2.574"



Item #3541-0050

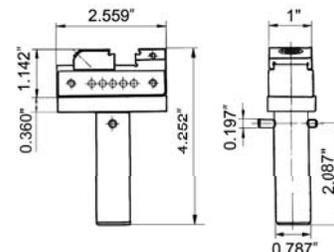
\$79⁰⁰
pc

MICRODE EDM ELECTRODE HOLDER VISE STANDARD ELECTRODE VISE

ISO9001

Features:

- Precision ground and hardened to HRC 58-62
- Parallelism: 0.0002"/4"
- Squareness: 0.0002"
- 0.787" diameter shank
- 2.087" from the back of the cross pin to the shank end
- Hardened and ground locating pin
- Jaw opening: 0.787"
- Jaw width: 0.984"
- Jaw height: 0.360"



Item #3510-3001

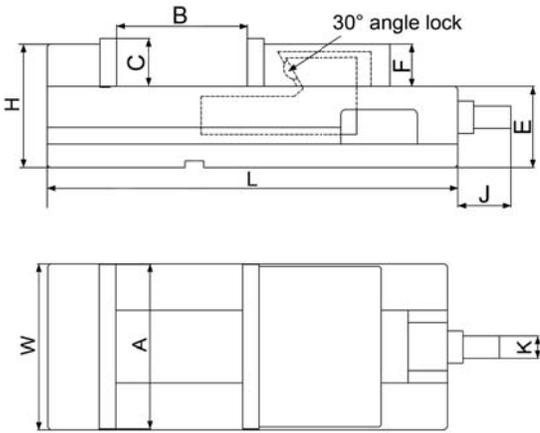
\$109⁰⁰
pc

SUPER-LOCK PRECISION CNC MACHINE VISE

GREAT

Features:

- Features a thrust bearing that increases clamping power by 80%.
- Can be mounted upright or sideways.
- Excellent to use when you have multiple vise setups.



FA23-5206

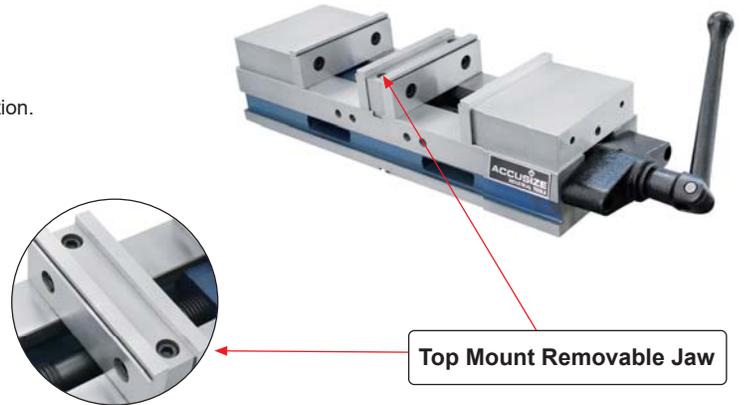
Item	Jaw Width (A)	Jaw Opening (B)	Jaw Depth (C)	E	F	J	K	OAL (L)	Width (W)	Height (H)	Weight	Price
FA23-5203	3"	2.953"	0.945"	1.969"	0.866"	1.181"	0.472"	9.409"	3.189"	2.913"	15lbs	\$189.00/PC
FA23-5204	4"	3.937"	1.260"	2.362"	1.142"	1.378"	0.472"	11.811"	3.976"	3.386"	26lbs	\$263.00/PC
FA23-5206	6"	5.512"	1.772"	3.031"	1.575"	1.890"	0.748"	17.322"	6.339"	4.803"	63lbs	\$428.00/PC

Cannot guarantee the exact location of the keyway slot. The keyway needs to be machined when used in pairs.

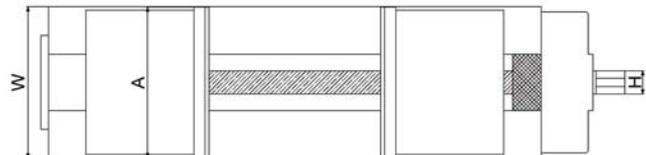
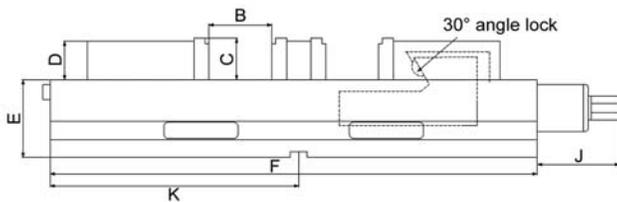
6" DOUBLE LOCK ANGLE TIGHT PRECISION MACHINE VISE WITH 2 CLAMPING STATION

Features:

- Precision clamping force per jaw set.
- Precision ground on all sides, can be mounted vertically or horizontally.
- Reversible hardened jaw plates for standard or, stepped part holding.
- Top mounted center block can be removed easily for larger parts application.
- Spheroidal cast iron body
- Jaw width: 6"(160mm)
- Jaw opening: 3.94"
- Jaw depth: 1.97"
- Total length: 24.49"
- Width: 6.33"
- Height: 5.118"
- Weight: 99lbs



Top Mount Removable Jaw



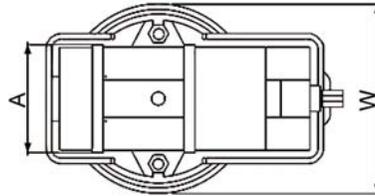
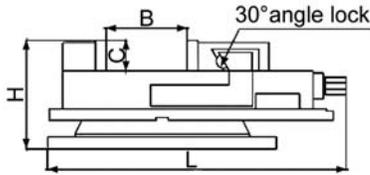
Item	Jaw Width (A)	Jaw Opening (B)	Jaw Depth (C)	D	E	F	J	K	H	W	Price
FA42-1242	6"	3.94"	1.97"	1.65"	3.15"	20.55"	3.94"	9.96"	0.75"	6.33"	\$934.00/PC

SUPER ANGLE LOCK PRECISION SWIVEL BASE MILLING MACHINE VISE

GREAT

Features:

- With swivel base.
- Removable hinged handle for fast locking.
- Provides better clamping pressure.



FA20-4203

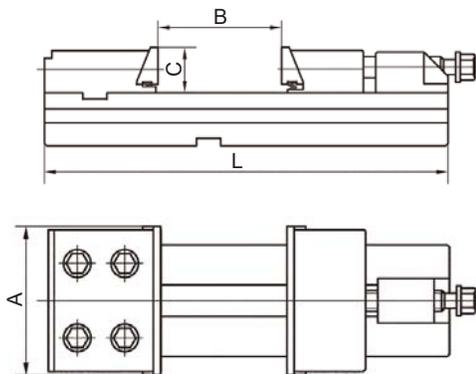
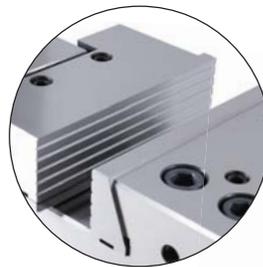
Item	Jaw Width (A)	Jaw Opening (B)	Jaw Depth (C)	OAL (L)	Width (W)	Height (H)	Weight	Price
FA20-4203	3"	3.543"	0.945"	10.433"	4.528"	3.740"	19lbs	\$158.00/PC
FA20-4204	4"	5.511"	1.259"	13.582"	8.858"	4.724"	39lbs	\$252.00/PC
FA20-4206	6"	6.299"	1.771"	17.322"	10.944"	6.023"	83lbs	\$428.00/PC

PRECISION CNC MILLING VISE

ISO9001

Features:

- Low profile pull-down jaws.
- Forged steel body.
- This design eliminates clamping deflection and provides strong clamping power.
- Ideal for all types of milling, grinding, drilling and tapping operations on vertical and horizontal CNC machines.
- Made of high-quality steel, carburized to surface hardness: HRC 58-62.
- High accuracy-all surfaces are hardened and precision ground square and parallel to an accuracy of 0.0012" jaws and 0.0008" base.



Item	Jaw Width (A)	Jaw Opening (B)	Jaw Depth (C)	OAL (L)	Price
1202-1025	6"	8"	2"	16.8"	\$1,252.00/PC

3/4" QUICK VISE HANDLE "THE PATRIOT"

MMM-USA Made in USA

Features:

- A 3/4" hex for opening and closing Kurt vises and similar vises that require a 3/4" wrench.
- 3/4" hex has a spring plunger set screw in it, holding the handle in place with 10 lbs of pressure. Taking the handle on or off does not require the use of Allen wrenches.
- Handle grip spins freely while in use.
- With this design no two handles are alike.
- 100% custom and each design might have less or more of one color than the handle in the picture above.
- Country of origin: USA

Item #PATT-0034
\$86⁰⁰
pc



FINE POLE PERMANENT MAGNETIC CHUCK

Features:

- Use rare earth ceramic magnets inside for superior holding power
- Sealed against dirt and liquid
- 1-5/8" very low profile to allow max. work height clearance
- Flat and parallel within 0.0002"
- Precision ground rails are included
- High holding power: max 140lbs/sq.in.
- Steel pole spacing: 1/16", brass pole spacing: 1/32"

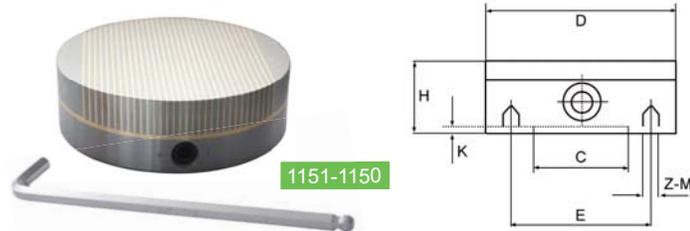
Item	Size	Price
2720-2000	4" x 4"	\$319.00/PC
2720-1000	6" x 6"	\$403.00/PC
2720-5000	6" x 12"	\$594.00/PC
2720-0000	6" x 18"	\$912.00/PC



CIRCL PERMANENT MAGNETIC CHUCK

Features:

- The round fine-pitch permanent magnet chuck is suitable for grinders and lathes, best for longer and thicker workpieces.
- The round micro pitch permanent magnetic chuck is suitable for grinding applications, best for smaller and thinner workpieces.
- High holding power: max 140lbs/sq.in.
- Steel pole spacing: 1/16", brass pole spacing: 1/32".



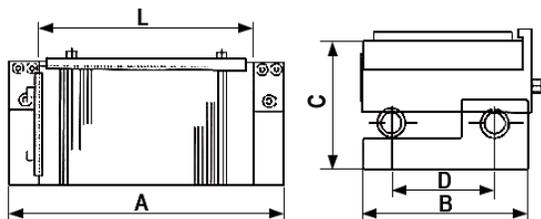
Item	D	H	K	C	E	Z-M	Weight	Price
1151-1150	6.299"	1.929"	0.079"	4.921"	5.512"	4xM8	6.5kg	\$616.00/PC
1151-2200	7.874"	2.008"	0.079"	6.299"	7.087"	4xM8	10kg	\$980.00/PC

6" X 6" MAGNETIC SINE PLATE

Center Distance of Rolls 4", within 0.0002"

Features:

- Processed through a special procedure, enabling higher precision-adjustment.
- Flat type for a wide range of uses. Ideal for high accuracy grinding operations.
- Sealed against dirt and liquids.
- A removable handle and two precision ground rails are included for the magnetic chuck.
- Steel pole spacing: 1/16", brass pole spacing: 1/32".
- Center distance of rolls 4", within 0.0002".
- The ON/OFF switch magnetic surface accuracy.



Item	Size (LxB)	Rolls Center (D)	C	A	Angle	Price
2520-1000	6" x 6"	4"	3.385"	7.874"	0-60°	\$831.00/PC

SINE PLATE

Features:

- Two precision ground rails included
- 0-50 degree adjustable
- Hardened to HRC 58-62 and precision ground



Item	Size L x W x H	Center Distance	Price
2591-0000	6" x 6" x 2"	5" (0.0002")	\$285.00/PC
2591-0001	12" x 6" x 2-5/8"	10" (0.0002")	\$616.00/PC

PRECISION ANGLE PLATE

Features:

- Solid one-piece steel construction
- Hardened to HRC 58-62
- Ground flat, square and parallel to 0.0002"



Item	Size	Thickness	Number of Hole	Price
2200-0901	4" x 3" x 3"	1"	13 Tapped 1/4"-20	\$120.00/PC
2200-0903	4" x 4" x 4"	1-1/4"	13 Tapped 1/4"-20	\$152.00/PC
2200-0904	6" x 6" x 4"	1-1/4"	26 Tapped 1/4"-20	\$303.00/PC

COMPOUND ANGLE PLATE

Features:

- Solid 1 piece steel construction
- Hardened to HRC 58-62
- Square and parallel within 0.0002"
- Includes 1 clamp



Item	Length	Height	Thickness	Tapped Hole	Price
SBK0-0105	6"	4"	1"	(16)1/4"-20	\$394.00/SET

MAGNETIC CHUCK PARALLEL & UNIVERSAL "V" BLOCK

Features:

- Cast integrally with aluminum to ensure the blocks will never crack or become loose even when accidentally dropped.
- Steel is selected for aluminum magnetic transfer and low retention of magnetic flux.



Item #EG06-2001 \$95.00/SET

- 1" x 2" x 4" micro parallels ground all over and in pairs.

Item #EG06-2004 \$117.00/SET

- "V" blocks are universal (hold in any direction on a magnetic chuck).
- Two V's: 1-7/8" x 2-3/8" x 2".
- Large V: 2" round capacity.
- Small V: 1/2" round capacity.



SELF-REVERSING TAPPING HEAD

GREAT **ISO9001**

Features:

- Guaranteed depth control; within $\pm 0.004"$.
- Chatter-free clutch's positive engagement allows for a smoother, more accurate tapping operation and more rapid reversal.
- Radial float is self-centering to compensate for hole center misalignment to 0.005".
- Unique double spring mechanism produces automatic feed and cushion drive. With 2 springs for feed and 2 springs for reversal.
- Pre-set torque control permits easy operation of tap brake torque control.
- The head comes complete with 2 collets.



2600-4012



2600-4012

Applications:

- Depth control
After the machine spindle travel stops, the tap advances $0.140" \pm 0.004"$.
Example: to achieve a 1.000" tap depth, set the spindle stop at 0.860".
The tap will advance an additional 0.140" to 1.000" deep.
- NC machine
Set the torque as high as possible within safe limits of the tap.
The NC machine cutting feed equals (Tap Pitch x Spindle RPM).
The reverse feed equals 2 x (Tap Pitch x Spindle RPM).
- In a fitted plastic case.

Item	Tapping Capacity in Steel	Jacobs Taper#	REC.Max Speed (RPM)	Reverse Ratio	Body Diameter	Overall Length	Clockwise Compression	Expansion	Counter Neutral	Clockwise Expansion	Uses Collets	Price
2600-4002	#0-1/4" (M2-M7)	6JT	1500RPM	1:1.60	2.215	5.118	0.197	0.140	0.0023	0.394	I-116, 117	\$549.00/SET
2600-4012	#4-1/2" (M5-M12), 1/8" NPT	6JT	1000RPM	1:1.75	2.950	6.140	0.197	0.160	0.0027	0.551	I-421, 422	\$689.00/SET
2600-4022	5/16-3/4" (M8-M20), 1/8", 1/4 NPT	M20	600RPM	1:1.70	3.580	8.030	0.236	0.240	0.0036	0.551	I-441, 445	\$768.00/SET

SHANK FOR TAPPING HEAD



0222-0757

Item	Taper Size	Jacobs Taper	Price
0222-0750	2MT	6JT	\$14.00/PC
0222-0757	3MT	6JT	\$18.00/PC
0222-0763	4MT	6JT	\$20.00/PC
0222-0775	R8	6JT	\$22.00/PC
2600-4062	3MT	20mm Thread	\$33.00/PC
2600-4064	4MT	20mm Thread	\$33.00/PC
2600-4066	R8	20mm Thread	\$40.00/PC



2600-4066

COLLET FOR TAPPING HEAD



2600-4036

Item	Tapping Capacity	Collets No.	Price
2600-4032	#0-#10	I-116	\$48.00/PC
2600-4034	#10-1/4	I-117	\$48.00/PC
2600-4036	#4-1/4	I-421	\$48.00/PC
2600-4038	1/4-1/2	I-422	\$48.00/PC
2600-4042	5/16-5/8	I-441	\$51.00/PC
2600-4044	9/16-3/4	I-445	\$51.00/PC

NUT SPARE PART FOR TAPPING HEAD



2632-4002

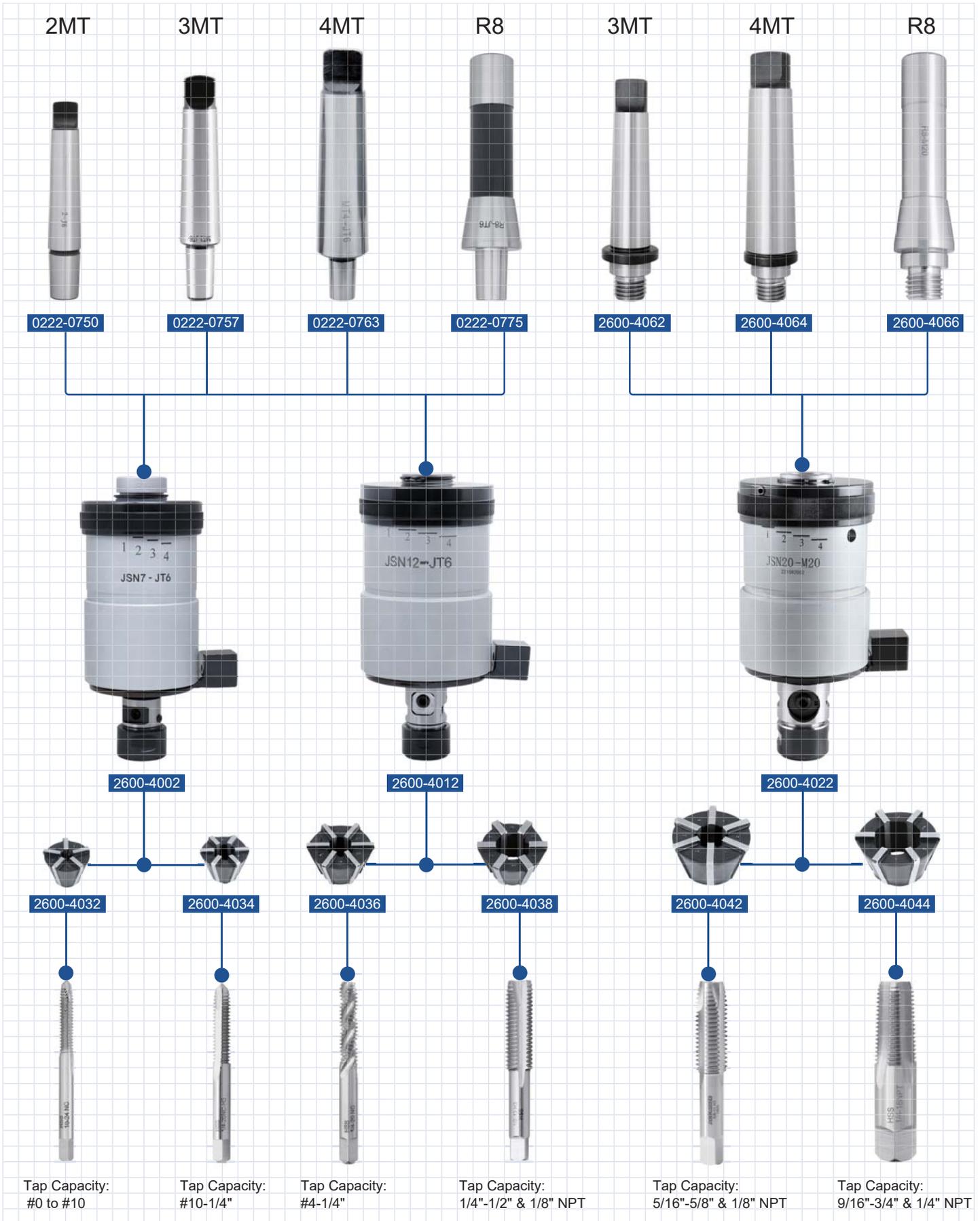
Item	Description	Price
2632-4002	Nut spare part of 2600-4002	\$16.00/PC
2632-4012	Nut spare part of 2600-4012	\$20.00/PC
2632-4022	Nut spare part of 2600-4022	\$25.00/PC

LOCKING SPARE PART FOR TAPPING HEAD

Tapping Head Back Jaw for Use with Tapping Attachments



Item	Description	Price
2612-4002	Locking spare parts of 2600-4002	\$22.00/PC
2612-4012	Locking nut spare parts of 2600-4012	\$26.00/PC
2612-4022	Locking nut spare parts of 2600-4022	\$33.00/PC

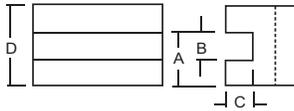


TURNING AND FACING HOLDER #1

ISO9001

Features:

- Takes lathe bits of various sizes.
- Turning and facing tools can be locked together, saving time and labor during changing operations.



0250-0201

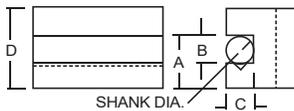
Item	Model	Dimension			Tool Bit	Price	
		A	B	C			
0250-0101	AXA	15/16"	1/2"	7/16"	1-1/2"	3/16" - 1/2"	\$32.00/PC
0250-0101T	AXA	1-3/32"	5/8"	35/64"	1-1/2"	3/16" - 5/8"	\$32.00/PC
0250-0201	BXA	1-1/8"	5/8"	1/2"	1-3/4"	1/4" - 5/8"	\$36.00/PC
0250-0201T	BXA	1-3/16"	3/4"	5/8"	1-3/4"	1/4" - 3/4"	\$40.00/PC
0250-0301	CXA	1-7/16"	3/4"	5/8"	2-1/8"	1/2" - 3/4"	\$52.00/PC
0250-0301T	CXA	1-17/32"	1"	13/16"	2-1/8"	1/2" - 1"	\$55.00/PC
0250-0401	CA	1-11/16"	1"	3/4"	2-1/2"	1/2" - 1"	\$70.00/PC

BORING, TURNING AND FACING HOLDER #2

ISO9001

Features:

- V-groove holds round shank boring bars and tools as well as square tool bits.



0250-0202

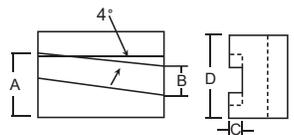
Item	Model	Dimension			Tool Bit	Shank	Price	
		A	B	C				
0250-0102	AXA	15/16"	1/2"	7/16"	1-1/2"	3/16" - 1/2"	7/16"	\$32.00/PC
0250-0102T	AXA	1-3/32"	5/8"	35/64"	1-1/2"	3/16" - 5/8"	7/16"	\$33.00/PC
0250-0202	BXA	1-1/8"	5/8"	1/2"	1-3/4"	1/4" - 5/8"	1/2"	\$38.00/PC
0250-0202T	BXA	1-3/16"	3/4"	5/8"	1-3/4"	1/4" - 3/4"	1/2"	\$42.00/PC
0250-0302	CXA	1-7/16"	3/4"	5/8"	2-1/8"	1/2" - 3/4"	3/4"	\$54.00/PC
0250-0402	CA	1-11/16"	1"	3/4"	2-1/2"	1/2" - 1"	13/16"	\$73.00/PC

UNIVERSAL PARTING BLADE HOLDER #7

ISO9001

Features:

- For bevels as well as T-cut blades.



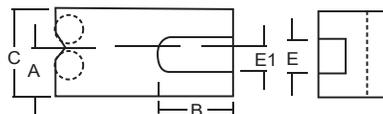
0250-0107

Item	Model	Dimension			Blade Height	Price	
		A	B	C			
0250-0107	AXA	13/16"	1/2"	3/16"	1-1/2"	1/2"	\$40.00/PC
0250-0207	BXA	1"	11/16"	3/16"	1-3/4"	11/16"	\$45.00/PC
0250-0307	CXA	1-3/16"	3/4"	3/16"	2"	3/4"	\$72.00/PC
0250-0407	CA	1-7/16"	7/8"	1/4"	2-1/2"	7/8"	\$86.00/PC

KNURLING, TURNING AND FACING HOLDER #10

Features:

- For turning and facing as well as knurling. Supplied with a set of high-speed, precision-ground, and lapped medium diamond knurls.



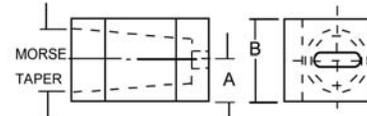
Item	Model	Dimension					Tool Bit	Price
		A	B	C	E	E1		
0250-0110	AXA	7/8"	2-1/2"	1-9/16"	1/2"	3/8"	3/16" - 1/2"	\$53.00/PC
0250-0210	BXA	1"	2-5/8"	1-3/4"	5/8"	1/2"	1/4" - 5/8"	\$62.00/PC
0250-0310	CXA	1-3/16"	3-1/8"	2"	3/4"	5/8"	1/2" - 3/4"	\$84.00/PC
0250-0410	CA	1-7/16"	3-3/4"	2-1/2"	1"	3/4"	1/2" - 1"	\$98.00/PC

MORSE TAPER HOLDER #5

ISO9001

Features:

- Drills with carriage by using power feed instead of tailstock. Easily centered.
- For drills of Morse Taper No. 2, 3, and 4. (Not Included)



0250-0305

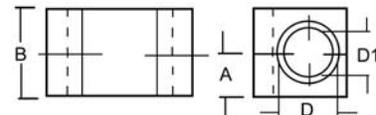
Item	Model	Dimension		Hole Size	Price
		A	B		
0250-0105	AXA	3/4"	1-1/2"	2MT	\$42.00/PC
0250-0205	BXA	7/8"	1-3/4"	2MT	\$54.00/PC
0250-0305	CXA	1"	2"	3MT	\$62.00/PC
0250-0405	CA	1-1/4"	2-1/2"	3MT	\$78.00/PC
0250-0454	CA	1-1/4"	2-1/2"	4MT	\$95.00/PC

HEAVY-DUTY BORING BAR HOLDER #4 & #41

ISO9001

Features:

- Equipped with a split bushing to accommodate a boring bar of a smaller diameter.
- It grips with extreme rigidity and cuts smoothly without chatter.



0250-0304

Item	Model	Dimension				Price
		A	B	D	D1	
0250-0104	AXA	3/4"	1-1/2"	3/4"	5/8"	\$43.00/PC
0250-0204	BXA	7/8"	1-3/4"	1"	3/4"	\$62.00/PC
0250-0304	CXA	1"	2"	1"	3/4"	\$73.00/PC
0250-0404	CA	1-1/4"	2-1/2"	1-1/4"	1"	\$93.00/PC
0250-0141	AXA	7/8"	1-3/4"	1"	3/4"	\$52.00/PC
0250-0241	BXA	1"	2"	1-1/4"	1"	\$63.00/PC
0250-0341	CXA	1-1/8"	2-1/4"	1-1/4"	1"	\$83.00/PC
0250-0441	CA	1-3/8"	2-3/4"	1-1/2"	1-1/4"	\$108.00/PC



0250-0310

QUICK CHANGE TOOL POST

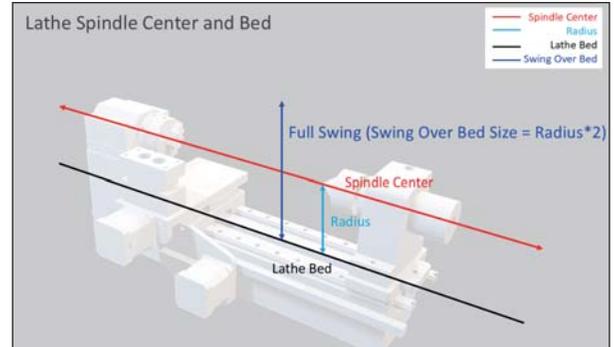
ISO9001

Features:

- Both Wedge and Piston posts are precision engineered to assure repetitive accuracy.
- Advanced design provides built-in quick tool changing versatility with positive rigidity to meet the most exacting tolerances.
- Quickly and easily installed on an engine, bench, or turret lathe for a wide range of operations, from fine-precise work to heavy-duty cutting.
- Piston type posts are economical, while the wedge type posts are clearly ultra-precise. Both accept the toolholders and interchange with Aloris, Dorian, and DTM tooling.

HOW TO SELECT THE RIGHT SIZE OF QCTP

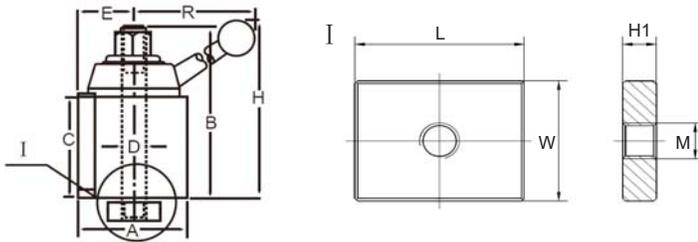
Determine the lathe Swing-Over Bed size using the diagram below, then refer to the table to select the correct QCTP.



0250-0111



0250-0300



Lathe Swing-Over Bed Sizes	Corresponding QCTP
6-9 inches	AXA
9-12 inches	AXA
10-15 inches	BXA
13-18 inches	CXA
14-20 inches	CA

Two styles: Piston and Wedge

Piston

Item	Model	A	B	C	D	E	H	R	Swing	Code	L	W	H1	M	Price
0250-0100	AXA	2-1/2"	3-7/8"	2-1/4"	9/16"	1-7/16"	4-11/16"	5-3/4"	6-12"	I	1.850"	2.362"	0.472"	M14x1.5	\$141.00/PC
0250-0200	BXA	3"	4-5/8"	2-3/4"	5/8"	1-5/8"	5-9/16"	7-5/16"	10-15"	I	2.756"	2.500"	0.630"	M16x1.5	\$154.00/PC
0250-0300	CXA	3-3/8"	5-1/8"	3"	3/4"	1-7/8"	6-1/8"	7-7/8"	13-18"	I	2.992"	2.992"	0.748"	M20x2	\$196.00/PC
0250-0400	CA	4"	6-1/4"	3-5/8"	7/8"	2-1/8"	7"	9"	14-20"	I	3.937"	2.992"	0.984"	M22x2	\$365.00/PC

Wedge

Item	Model	A	B	C	D	E	H	R	Swing	Code	L	W	H1	M	Price
0250-0111	AXA	2-1/2"	3-7/8"	2-1/4"	9/16"	1-3/8"	4-11/16"	5-3/4"	6-12"	I	2.500"	2.244"	0.500"	9/16"-18UNF	\$185.00/PC
0250-0222	BXA	3"	4-5/8"	2-3/4"	5/8"	1-9/16"	5-9/16"	7-5/16"	10-15"	I	2.992"	2.756"	0.630"	5/8"-18UNF	\$219.00/PC
0250-0333	CXA	3-1/2"	5-1/8"	3"	3/4"	1-29/32"	6-1/8"	7-7/8"	13-18"	I	3.504"	2.992"	0.748"	3/4"-16UNF	\$308.00/PC
0250-0444	CA	4"	6-1/4"	3-5/8"	7/8"	2-1/8"	7"	9"	14-20"	I	3.937"	3.622"	0.984"	7/8"-14UNF	\$450.00/PC

6PC QUICK CHANGE TOOL POST SET (USA STYLE)

ISO9001

Each set includes 1 Piston or Wedge Tool Post and 5 Tool Holders:

- Style 1: Turning & Facing Tool Holder
- Style 2: Boring, Turning & Facing Tool Holder
- Style 4: Heavy-duty Boring Bars Tool Holder
- Style 7: Universal Parting Blades Tool Holder
- Style 10: Knurling, Turning & Facing Tool Holder



0251-0333

Piston Tool Post Set (6 Pieces)

Item	Model	Lathe Swing (Inch)	Each Set Includes	Price
0251-0100	AXA	6" - 12"	Each 1pc 0250-0100, 0250-0101, 0250-0102, 0250-0104, 0250-0107 & 0250-0110	\$295.00/SET
0251-0200	BXA	10" - 15"	Each 1pc 0250-0200, 0250-0201, 0250-0202, 0250-0204, 0250-0207 & 0250-0210	\$350.00/SET
0251-0300	CXA	13" - 18"	Each 1pc 0250-0300, 0250-0301, 0250-0302, 0250-0304, 0250-0307 & 0250-0310	\$493.00/SET
0251-0400	CA	14" - 20"	Each 1pc 0250-0400, 0250-0401, 0250-0402, 0250-0404, 0250-0407 & 0250-0410	\$735.00/SET

Wedge Tool Post Set (6 Pieces)

Item	Model	Lathe Swing (Inch)	Each Set Includes	Price
0251-0111	AXA	6" - 12"	Each 1pc 0250-0111, 0250-0101, 0250-0102, 0250-0104, 0250-0107 & 0250-0110	\$362.00/SET
0251-0222	BXA	10" - 15"	Each 1pc 0250-0222, 0250-0201, 0250-0202, 0250-0204, 0250-0207 & 0250-0210	\$449.00/SET
0251-0333	CXA	13" - 18"	Each 1pc 0250-0333, 0250-0301, 0250-0302, 0250-0304, 0250-0307 & 0250-0310	\$614.00/SET
0251-0444	CA	14" - 20"	Each 1pc 0250-0444, 0250-0401, 0250-0402, 0250-0404, 0250-0407 & 0250-0410	\$823.00/SET

6PC OXA WEDGE TYPE QUICK CHANGE TOOL POST SET FOR 6"-9" MINI LATHE

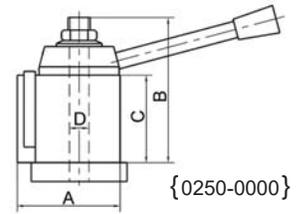
ISO9001

Features:

- Made from high-quality, heat-treated tool steel.
- Wedge Type.
Wedge type tool posts are precision engineered to assure repeatability accuracy. Wedge type tool posts have the maximum rigidity to get chatter free performance.
- No time wasted with shims.
- All working parts hardened and precision ground.
- The tool post comes with a black T-Nut plate, the customer has to do some machining work to make it fit their specific lathe T-slot.
- Perfect for 7 x 10", 7 x 12", 7 x 14" mini lathes, such as Enco, Grizzly, little Machine, Harbor Freight, etc.

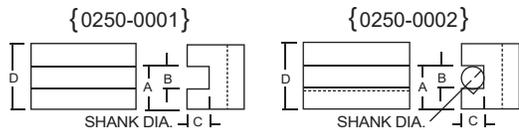


Item #0251-0000
\$296⁰⁰
set



Whole set includes one each of:

- 0250-0000 Wedge Tool Post
- 0250-0001 Turning and Facing Tool Holder
- 0250-0002 Boring, Turning and Facing Tool Holder
- 0250-0004 Heavy-duty Boring Bar Holder, can use two sizes boring bars: 3/8" & 1/2"
- 0250-0007 Parting Blade Tool Holder, using 1/2" high parting blades
- 0250-0010 Knurling and Turning Tool Holder



Item	A	B	C	D	Price
0250-0001	0.66"	0.50"	0.327"	1.1"	\$29.00/PC

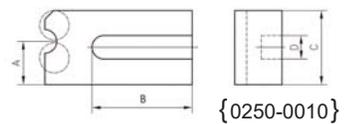
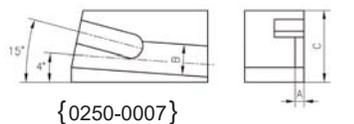
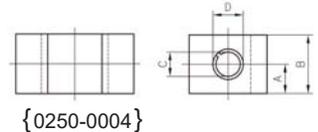
Item	A	B	C	D	Price
0250-0002	0.66"	0.50"	0.327"	1.1"	\$32.00/PC

Item	A	B	C	D
0250-0000	1.750"	2.95"	1.57"	0.40"

Item	A	B	C	D
0250-0004	0.47"	1.18"	0.38"	0.50"

Item	A	B	C	Blade Height
0250-0007	0.126"	0.55"	1.38"	1/2"

Item	A	B	C	Clamping Range
0250-0010	0.53"	1.77"	1.18"	3/16-1/2"



8PC WEDGE TYPE QUICK CHANGE TOOL POST SET

1pc AXA/BXA/CXA Wedge Tool Post, with 7pcs Tool Holders

GREAT **ISO9001**

Each set includes 1 Wedge Tool Post and 7 Tool Holders:

- Wedge Tool Post
- Style 1: Turning & Facing Tool Holder
- Style 1: XL Turning & Facing Tool Holder
- Style 2: Boring, Turning & Facing Tool Holder
- Style 4: Heavy-duty Boring Bars Tool Holder
- Style 7: Universal Parting Blades Tool Holder
- Style 10: Knurling, Turning & Facing Tool Holder

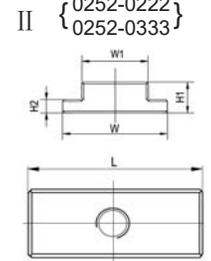
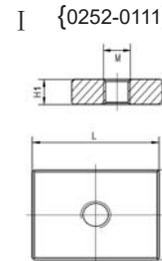
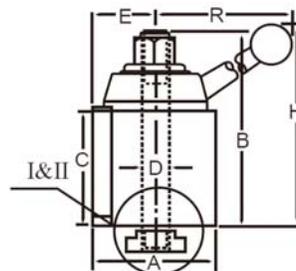


Wedge Tool Post Set (8 Pieces)

Item	Model	Lathe Swing (Inch)	Each Set Includes	Price
0251-0118	AXA	6"-12"	Each 1pc 0252-0111, 0250-0101, 0250-0102, 0250-0104, 0250-0107, 0250-0110, 0250-0101T & 0250-0101T	\$418.00/SET
0251-0228	BXA	10"-15"	Each 1pc 0252-0222, 0250-0201, 0250-0202, 0250-0204, 0250-0207, 0250-0210, 0250-0201T & 0250-0201T	\$515.00/SET
0251-0338	CXA	13"-18"	Each 1pc 0252-0333, 0250-0301, 0250-0302, 0250-0304, 0250-0307, 0250-0310, 0250-0301T & 0250-0301T	\$714.00/SET

QUICK CHANGE TOOL POST

ISO9001



Wedge

Item	Model	A	B	C	D	E	H	R	Swing	Base Code	L	W	W1	H1	H2	M
0252-0111	AXA	2-1/2"	3-7/8"	2-1/4"	9/16"	1-3/8"	4-11/16"	5-3/4"	6-12"	I	2.362"	1.850"	-	0.472"	-	M14x1.5
0252-0222	BXA	3"	4-5/8"	2-3/4"	5/8"	1-9/16"	5-9/16"	7-5/16"	10-15"	II	2.795"	2.250"	1.614"	0.630"	0.354"	M16x1.5
0252-0333	CXA	3-1/2"	5-1/8"	3"	3/4"	1-29/32"	6-1/8"	7-7/8"	13-18"	II	3.012"	2.500"	1.563"	0.748"	0.500"	M18x1.5

11PC AXA WEDGE TYPE QUICK CHANGE TOOL POST SET

GREAT **ISO9001**

1pc AXA Wedge Tool Post for Lathe 6"-12", with 8pcs Tool Holders, 1pc Two-wheel Knurling Tool, and 1pc Heavy-duty Indexable Grooving & Cut-off Holder (Nickel plated)

Set includes:

- 1pc of 0252-0111 Wedge Tool Post
- 2pcs of 0250-0101 Turning & Facing Tool Holders
- 1pc of 0250-0101T XL Turning & Facing Tool Holder
- 2pcs of 0250-0102 Boring, Turning & Facing Tool Holders
- 1pc of 0250-0102T XL Boring, Turning & Facing Tool Holder
- 1pc of 0250-0104 Heavy-duty Boring Bar Tool Holder
- 1pc of 0250-0107 Universal Parting Blade Tool Holder

And these following 2 items can be used separately with any square tool bit holders:

- 1pc of 0250-1740 Two-wheel Knurling Tool, Size: 4" x 1/2" x 1/2"; Knurls: 3/4"(Dia) x 1/4"(Face) x 1/4"(Hole)
- 1pc of 2415-5024 Heavy-duty Indexable Grooving & Cut-off Holder with an 6103-2002 GTN-2 Carbide Insert, Size: QA08R-20B, 1/2" x 1/2" x 4-1/2" OAL



Wedge Tool Post Set (11 Pieces)

Item	Model	Lathe Swing (Inch)	Each Set Includes	Price
0251-0119	AXA	6"-12"	Each 1pc 0252-0111, 0250-0101, 0250-0101T, 0250-0102, 0250-0102, 0250-0102T, 0250-0104, 0250-0107, 0250-1740, & 2415-5024	\$483.00/SET

10PC BXA WEDGE TYPE QUICK CHANGE TOOL POST SET

ISO9001

1pc AXA Wedge Tool Post for Lathe 10"-15", with 7pcs Tool Holders, 1pc Two-wheel Knurling Tool, and 1pc Heavy-duty Indexable Grooving & Cut-off Holder (Nickel plated)

Set includes:

- 1pc of 0252-0222 Wedge Tool Post
- 2pcs of 0250-0201 Turning & Facing Tool Holders
- 1pc of 0250-0201T XL Turning & Facing Tool Holders
- 1pc of 0250-0202 Boring, Turning & Facing Tool Holder
- 1pc of 0250-0202T XL Boring, Turning & Facing Tool Holder
- 1pc of 0250-0204 Heavy-duty Boring Bar Tool Holder
- 1pc of 0250-0207 Universal Parting Blade Tool Holder

And these following 2 items can be used separately with any square tool bit holders:

- 1pc of 0250-1740 Two-wheel Knurling Tool, Size: 4" x 1/2" x 1/2"; Knurls: 3/4"(Dia) x 1/4"(Face) x 1/4"(Hole)
- 1pc of 2415-5030 Heavy-duty Indexable Grooving & Cut-off Holder with an 6103-2003 GTN-3 Carbide Insert, Size: QA12R-30C, 3/4" x 3/4" x 5" OAL



Wedge Tool Post Set (10 Pieces)

Item	Model	Lathe Swing (Inch)	Each Set Includes	Price
0251-0229	BXA	10"-15"	Each 1pc 0252-0222, 0250-0201, 0250-0201, 0250-0202, 0250-0202, 0250-0201T, 0250-0202T, 0250-0204, 0250-0207, 0250-1740, & 2415-5030	\$625.00/SET

5PC AXA WEDGE TYPE QUICK CHANGE TOOL POST SET

ISO9001

1pc AXA Wedge Tool Post for Lathe 6"-12", with 3pcs Tool Holders and 1pc 1/2" M35 Square Lathe Bit

Features:

- All parts are hardened, ground and completely sealed for maintenance-free operation.
- The advanced design of the quick change tool posts provides built-in quick tool changing versatility with positive rigidity to meet the most exacting working tolerances.
- Quickly and easily installed on an engine bench or turret lathe. Quick change tool post sets perform a wide range of operations from fine-precise work to heavy-duty cutting.
- Maximum rigidity for chatter-free performance.
- Quick change tool post sets are interchangeable with all industry-leading brands by series.

Each set includes 1 Wedge Tool Post, 3 Tool Holders and 1 Lathe Bit:

- 1pc of 0250-0111 Wedge Tool Post
- 1pc of 0250-0101 Turning & Facing Tool Holder
- 1pc of 0250-0101T XL Turning & Facing Tool Holder
- 1pc of 0250-0102 Boring, Turning & Facing Tool Holder
- 1pc of 5095-0032 M35 Square Lathe Bit, 1/2" x 1/2" x 4" OAL

Wedge Tool Post Set (5 Pieces)

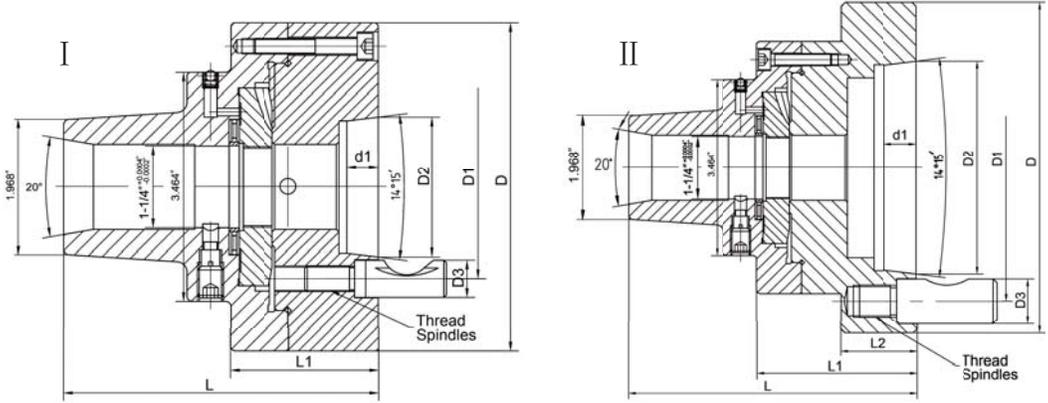
Item	Model	Lathe Swing (Inch)	Each Set Includes	Price
0251-0155	AXA	6"-12"	Each 1pc 0250-0111, 0250-0101, 0250-0101T, 0250-0102, & 5095-0032	\$292.00/SET



5C COLLET CHUCK

Features:

- Scroll & pinion precision machined and hardened.
- Scroll and pinion design just like 3-jaw chuck, operated with chuck key.
- No need any work upon receiving, just mount it on your machine spindle and go.
- Max. RPM 6000.
- TIR: 0.0006".
- Works with 5C collets of any sizes; round collets: 1/16" ~ 1-1/8"; hex collets: 1/8" ~ 7/8"; square collet: 1/8" ~ 3/4".



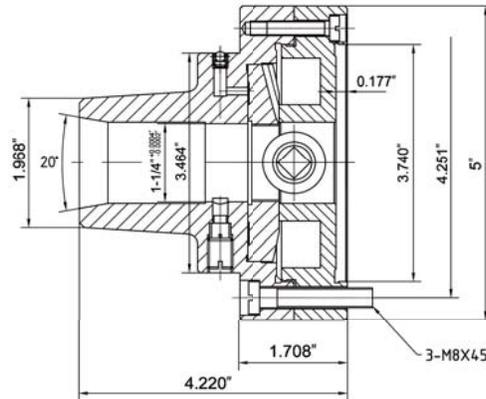
Item	Outside Diameter (D)	To Fit Spindle	Thread Spindles	No. of Stud	D1	D2	Stud Diameter (D3)	d1	Base Code	L	L1	L2	Price
0269-0013	5"	D1-3	M10 x 1	3	2.779"	2-1/8"	9/16"	0.472"	I	4.744"	2.232"	-	\$523.00/PC
0269-0014	5"	D1-4	M10 x 1	3	3.251"	2-1/2"	5/8"	0.472"	I	4.744"	2.232"	-	\$523.00/PC
0269-0015	5-1/2"	D1-5	M12 x 1	6	4-1/8"	3-1/4"	3/4"	0.472"	II	5.649"	3.137"	1.496"	\$527.00/PC
0269-0016	6-1/2"	D1-6	M16 x 1.5	6	5.251"	4-3/16"	7/8"	0.629"	II	5.649"	3.137"	1.496"	\$568.00/PC



5C COLLET CHUCK (PLAIN BACK)

Features:

- Outside diameter: 5".
- Max. RPM 6000.
- TIR: 0.0006".
- Can be used on lathe and grinding machines.
- Scroll & pinion precision machined and hardened.
- Plain back, needs a proper back plate to connect with your machine.
- Scroll and pinion design just like 3-jaw chuck, operated with a chuck key.
- Should be used with a back plate (adapter) to connect to a specific lathe spindle.
- Works with 5C collet of any sizes; round collet: 1/16" ~ 1-1/8"; hex collet: 1/8" ~ 7/8"; square collet: 1/8" ~ 3/4".



GREAT **ISO9001**



Item #0269-0010
\$457⁰⁰
pc

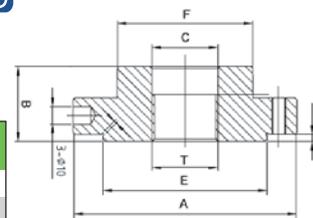
5" FULLY MACHINED THREADED BACK PLATE FOR PLAIN BACK 5C COLLET CHUCK

ISO9001

Features:

- Does not require a secondary machining operation.

Item	Size	Size of Screw Thread (T)	A	B	C	D	E	F	Price
2600-5453	5"	1-1/2"-8	4.961"	1.693"	1.514"	0.157"	3.74"	3.091"	\$114.00/PC
2600-5455	5"	2-1/4"-8	4.961"	1.949"	2.260"	0.157"	3.74"	3.346"	\$119.00/PC



2600-5455

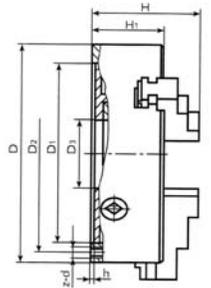
3-JAW SELF-CENTERING CHUCK (PLAIN BACK)

Features:

- TIR 0.003".
- Semi-steel body.
- Includes a set of inside jaws and a set of outside jaws.
- All jaws are hardened.



ISO9001



Item	Diameter	Center Hole	D1	D2	D3	H	H1	h	z-d	Price
0559-0110	3"/80mm	0.630"	2.165"	2.598"	0.630"	2.598"	1.969"	0.138"	3-M6	\$171.00/PC
0559-0111	4"/100mm	0.866"	2.835"	3.307"	0.866"	2.933"	2.165"	0.138"	3-M8	\$180.00/PC
0559-0112	5"/125mm	1.181"	3.740"	4.252"	1.181"	3.346"	2.283"	0.157"	3-M8	\$198.00/PC

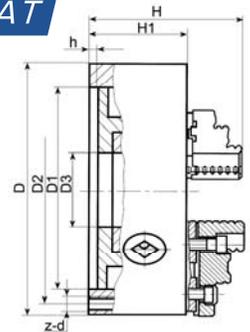
TWO-PIECE REVERSIBLE JAWS 3-JAW SELF-CENTERING CHUCK (PLAIN BACK)

Features:

- TIR 0.003".
- Semi-steel body.
- 2-piece reversible jaws.
- All jaws are hardened.



GREAT



Item	Diameter	Center Hole	D1	D2	D3	H	H1	h	z-d	Price
0559-0114	6"/160mm	1.575"	5.118"	5.591"	1.575"	4.291"	2.559"	0.197"	3-M8	\$340.00/PC
0559-0115	8"/200mm	2.559"	6.496"	7.087"	2.559"	4.803"	2.953"	0.197"	3-M10	\$432.00/PC
0559-0116	10"/250mm	3.150"	8.110"	8.898"	3.150"	5.236"	3.150"	0.197"	3-M12	\$564.00/PC
0559-0117	12"/315mm	3.937"	10.236"	11.220"	3.937"	6.122"	3.543"	0.236"	3-M16	\$1,063.00/PC

REPLACEMENT HARD JAWS

Item	Description	Price
0555-0114	Hard Jaws for Lathe Chuck 0559-0114	\$118.00/SET
0555-0115	Hard Jaws for Lathe Chuck 0559-0115	\$185.00/SET



NEW

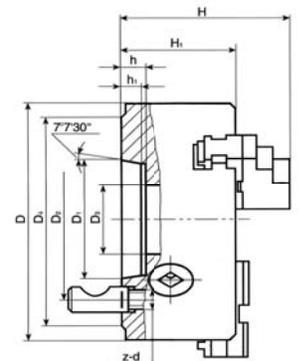
0555-0114

TWO-PIECE REVERSIBLE JAWS 3-JAW SELF-CENTERING CHUCK DIRECT MOUNT

"D1" series (direct-mounting) chucks.

Features:

- Hardened and ground two-piece reversible jaws.
- Semi-steel body.
- Each comes with a chuck key.
- Standard accuracy.
- Standard scroll.



Item	Diameter	Mount	Center Hole	D1	D2	D3	H	H1	h	z-d	Price
0559-0101	6"/160mm	D1-4	1.575"	2.501"	3.252"	1.575"	4.528"	2.874"	0.512"	3-M10	\$425.00/PC
0559-0102	8"/200mm	D1-4	2.362"	2.501"	3.252"	2.362"	4.921"	3.465"	0.512"	3-M10	\$557.00/PC
0559-0104	8"/200mm	D1-6	2.362"	4.188"	5.252"	2.362"	5.276"	3.465"	0.630"	6-M16	\$557.00/PC
0559-0106	10"/250mm	D1-6	2.756"	4.188"	5.252"	2.756"	5.866"	3.740"	0.630"	6-M16	\$693.00/PC
0559-0108	12"/315mm	D1-6	3.937"	4.188"	5.252"	3.937"	6.969"	4.409"	0.630"	6-M20	\$1,099.00/PC

6-JAW SELF-CENTERING SCROLL LATHE CHUCK (PLAIN BACK)

GREAT

ISO9001

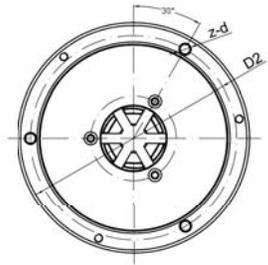
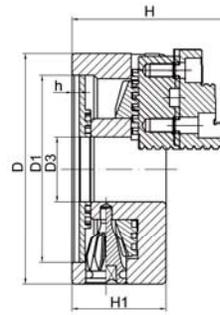
NEW

Features:

- Two-piece reversible Jaws; Jaws are composed of top and bottom pieces.
- Highly durable; Steel inner mechanisms are quench hardened to increase toughness.
- Plain back.
- RPM 2000 r/min.



0559-0208



Item	Diameter	D	D1	D2	D3	H	H1	h	z-d	Price
0559-0206	6"/160mm	6.299"	5.118"	5.590"	1.772"	4.134"	2.559"	0.197"	3-M8	\$598.00/PC
0559-0208	8"/200mm	7.874"	6.496"	7.087"	2.559"	4.606"	2.953"	0.197"	3-M10	\$693.00/PC

D1 TYPE ADAPTOR, SEMI-FINISHED

Features:

- D1 type adaptor for most 3-jaw, 6-jaw plain back chucks.
- Direct mounting on camlock spindle noses.
- The back plate shoulder requires machining. For instructions on truing back plate.



2600-0511

Item	Chuck Diameter	Spindle Taper	Price
2600-0517	5"	D1-3	\$105.00/PC
2600-0510	5"	D1-4	\$112.00/PC
2600-0518	6"	D1-3	\$140.00/PC
2600-0511	6"	D1-4	\$139.00/PC
2600-0512	8"	D1-4	\$171.00/PC
2600-0515	8"	D1-5	\$186.00/PC
2600-0513	8"	D1-6	\$186.00/PC

SEMI-FINISHED THREADED BACK PLATE

NEW

Features:

- Fits most plain back chucks.
- The back plate shoulder requires machining. For instructions on truing back plate.



0304-0108

Item	Chuck Diameter	Thread	Price
For 3-Jaw, 4-Jaw & 6-Jaw Self-Centering Chucks			
0303-0108	3"	1"-8	\$62.00/PC
0303-0110	3"	1"-10	\$62.00/PC
0304-0108	4"	1"-8	\$73.00/PC
0304-0110	4"	1"-10	\$73.00/PC
0304-1128	4"	1-1/2"-8	\$73.00/PC
0305-0110	5"	1"-10	\$83.00/PC
0305-1128	5"	1-1/2"-8	\$83.00/PC
0306-1128	6"	1-1/2"-8	\$119.00/PC
0306-2148	6"	2-1/4"-8	\$119.00/PC
0308-1128	8"	1-1/2"-8	\$156.00/PC
0308-2148	8"	2-1/4"-8	\$156.00/PC
For 4-Jaw Independent Chucks			
3406-1128	6"	1-1/2"-8	\$119.00/PC
3408-1128	8"	1-1/2"-8	\$156.00/PC

L-00 TYPE ADAPTOR, SEMI-FINISHED

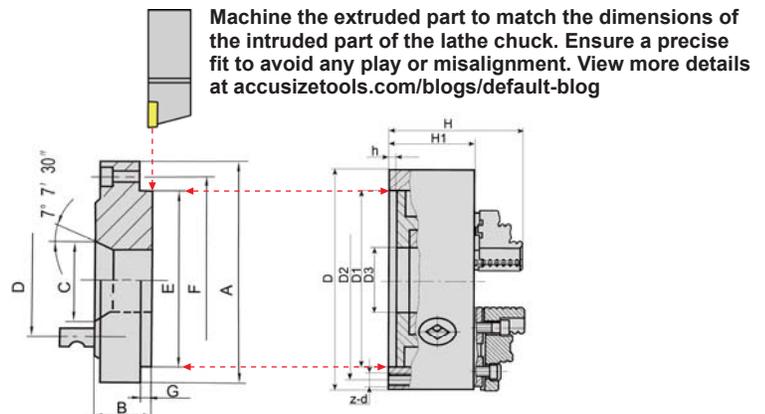
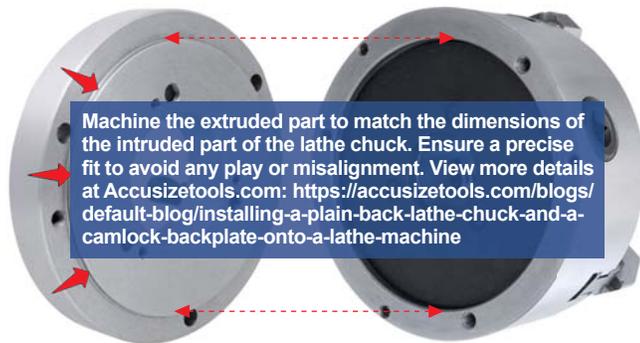
Features:

- For 3-jaw plain back chucks.
- Direct mounting on "L" type spindle noses.
- The back plate shoulder requires machining. For instructions on truing back plate.



2700-0501

Item	Chuck Diameter	Spindle Taper	Price
2700-0500	6"	L-00	\$215.00/PC
2700-0501	8"	L-00	\$252.00/PC
2700-0502	10"	L-00	\$333.00/PC



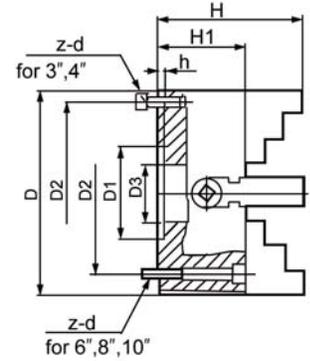
4-JAW INDEPENDENT CHUCK

Features:

- Plain back, semi-steel body.
- Each comes with one set of reversible jaws.
- Jaws are hardened and ground.
- Independent jaw movement, suitable for machining all kinds of special-shaped workpieces.
- 1 set of setting screws.
- 1 hexagon wrench.



0557-0008



Item	Diameter	Center Hole	D1	D2	D3	H	H1	h	z-d	Price
0557-0003	3"/80mm	0.866"	2.165"	2.598"	0.866"	2.323"	1.654"	0.138"	4-M6	\$174.00/PC
0557-0004	4"/100mm	0.984"	2.835"	3.307"	0.984"	3.031"	2.126"	0.138"	4-M8	\$208.00/PC
0557-0006	6"/160mm	1.772"	2.559"	3.740"	1.772"	3.661"	2.559"	0.197"	4-M10	\$271.00/PC
0557-0008	8"/200mm	2.165"	2.953"	3.740"	2.165"	4.213"	2.953"	0.236"	4-M10	\$343.00/PC
0557-0010	10"/250mm	2.953"	4.331"	5.118"	2.953"	4.724"	3.150"	0.236"	4-M12	\$450.00/PC

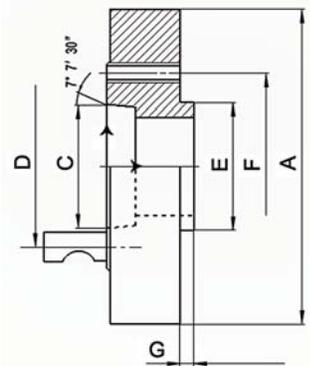
SEMI-FINISHED LATHE CHUCK BACK PLATE D1 TYPE ADAPTOR FOR MOST 4-JAW INDEPENDENT CHUCK

Features:

- Requires machining the back plate shoulder, based upon the 4-jaw independent chuck which will be used.
- The back plate outside diameter is smaller than the lathe chuck diameter due to the mounting holes toward the center of the lathe chuck. The recess diameter of the lathe chuck still provides a tight fit.
- The back plate shoulder requires machining. For instructions on truing back plate.



2600-0162



Item	Chuck Diameter	Spindle Taper	A	C	D	E	F	G	Price
2600-0162	6"	D1-3	6.299"	2.125"	2.779"	2.125"	2.795"	0.157"	\$142.00/PC
2600-0163	6"	D1-4	6.299"	2.500"	3.251"	2.125"	2.795"	0.157"	\$145.00/PC
2600-0164	6"	D1-5	6.299"	3.250"	4.125"	2.125"	2.795"	0.157"	\$174.00/PC
2600-0165	8"	D1-3	6.299"	2.125"	2.779"	2.992"	3.740"	0.196"	\$152.00/PC
2600-0166	8"	D1-4	6.299"	2.500"	3.251"	2.992"	3.740"	0.196"	\$161.00/PC
2600-0167	8"	D1-6	7.086"	4.187"	5.251"	2.992"	3.740"	0.196"	\$183.00/PC
2600-0168	10"	D1-6	7.086"	4.187"	5.251"	4.370"	5.118"	0.196"	\$208.00/PC
2600-0169	10"	D1-8	8.346"	5.500"	6.748"	4.370"	5.118"	0.196"	\$227.00/PC

3-JAW SELF-CENTERING SCROLL CHUCK WITH 5C SHANK

ISO9001

Features:

- Eliminates tearing down a collet set-up on a lathe.
- Works with any 5C tooling.
- Self-centering T.I.R 0.003".
- Includes a set of inside jaws and a set of outside jaws.



0225-0234

Item	Diameter	Price
0225-0233	3"/75mm	\$315.00/PC
0225-0234	4"/100mm	\$340.00/PC

3-JAW SELF-CENTERING SCROLL CHUCK WITH R8 SHANK

ISO9001

Features:

- Eliminates tearing down a collet set-up on a lathe.
- Works with any R8 tooling.
- Self-centering T.I.R 0.003".
- Includes a set of inside jaws and a set of outside jaws.



0225-0236

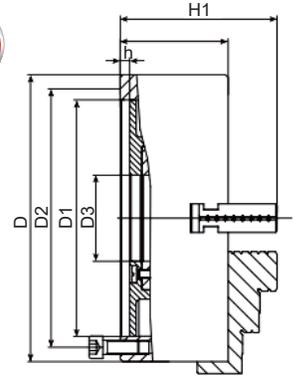
Item	Diameter	Price
0225-0236	3"/75mm	\$315.00/PC
0225-0237	4"/100mm	\$340.00/PC

HIGH PRECISION 4-JAW SELF-CENTERING LATHE CHUCK

GREAT **NEW**

Features:

- T.I.R 0.001" to 0.0015"
- Semi-steel body.
- Each comes with one set of reversible jaws.
- Jaws are hardened and ground.
- 1 set of setting screws.
- 1 hexagon wrench.



Item	Diameter	D	D1	D2	D3	H	H1	h	z-d	Price
6557-0005	5"/125mm	4.921"	3.740"	4.252"	1.181"	3.071"	2.165"	0.138"	3-M8	\$339.00/PC

3-JAW SELF-CENTERING CHUCK (PLAIN BACK)

3" 0559-0110

4" 0559-0111

5" 0559-0112

1"-8 0303-0108

1"-10 0303-0110

1"-8 0304-0108

1"-10 0304-0110

1-1/2"-8 0303-1128

1"-10 0305-0110

1-1/2"-8 0305-1128

D1-3 2600-0517

D1-4 2600-0510

TWO-PIECE REVERSIBLE JAWS 3-JAW SELF-CENTERING CHUCK (PLAIN BACK)

6" 0559-0114

8" 0559-0115

10" 0559-0116

1-1/2"-8 0306-1128

2-1/4"-8 0306-2148

D1-3 2600-0518

D1-4 2600-0511

L-00 2700-0500

1-1/2"-8 0308-1128

2-1/4"-8 0308-2148

D1-4 2600-0512

D1-5 2600-0515

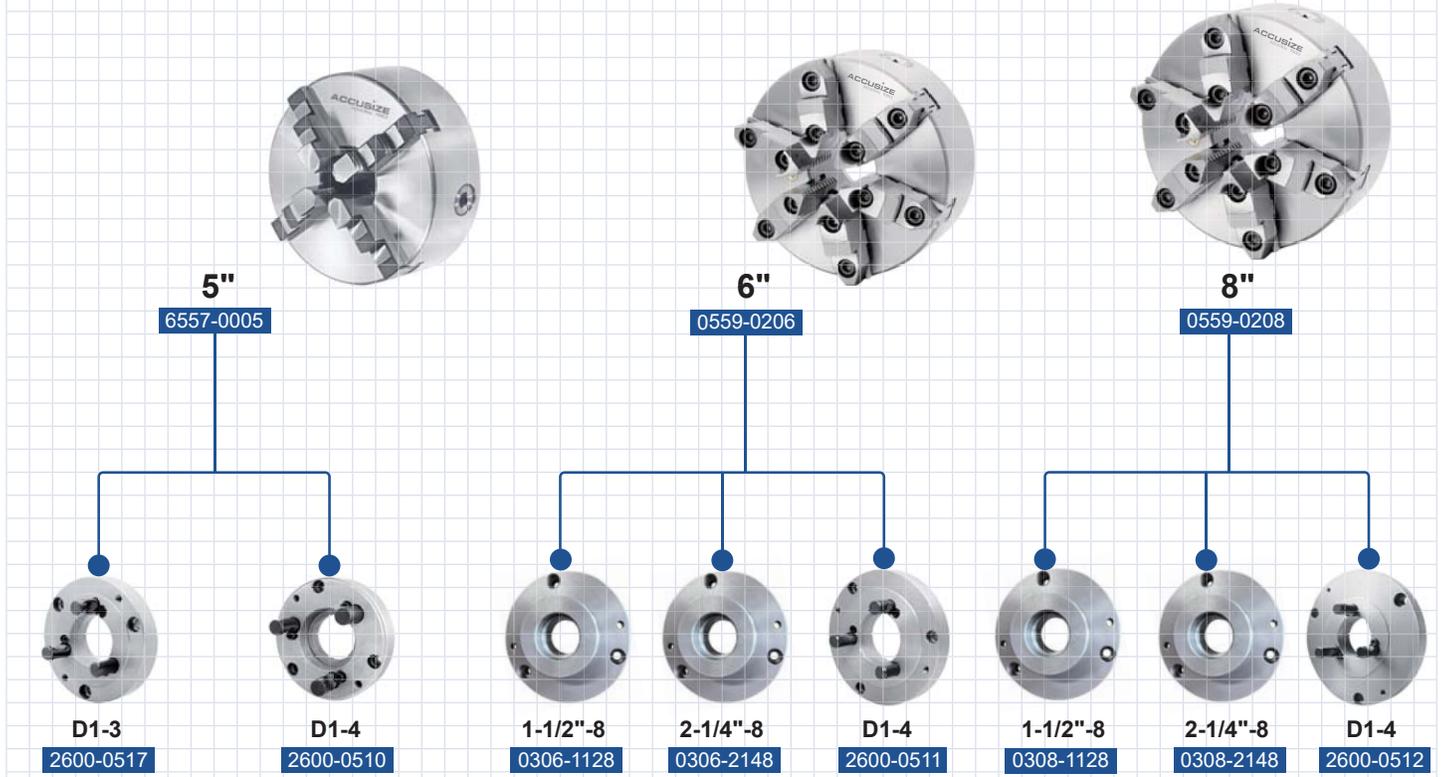
D1-6 2600-0513

L-00 2700-0501

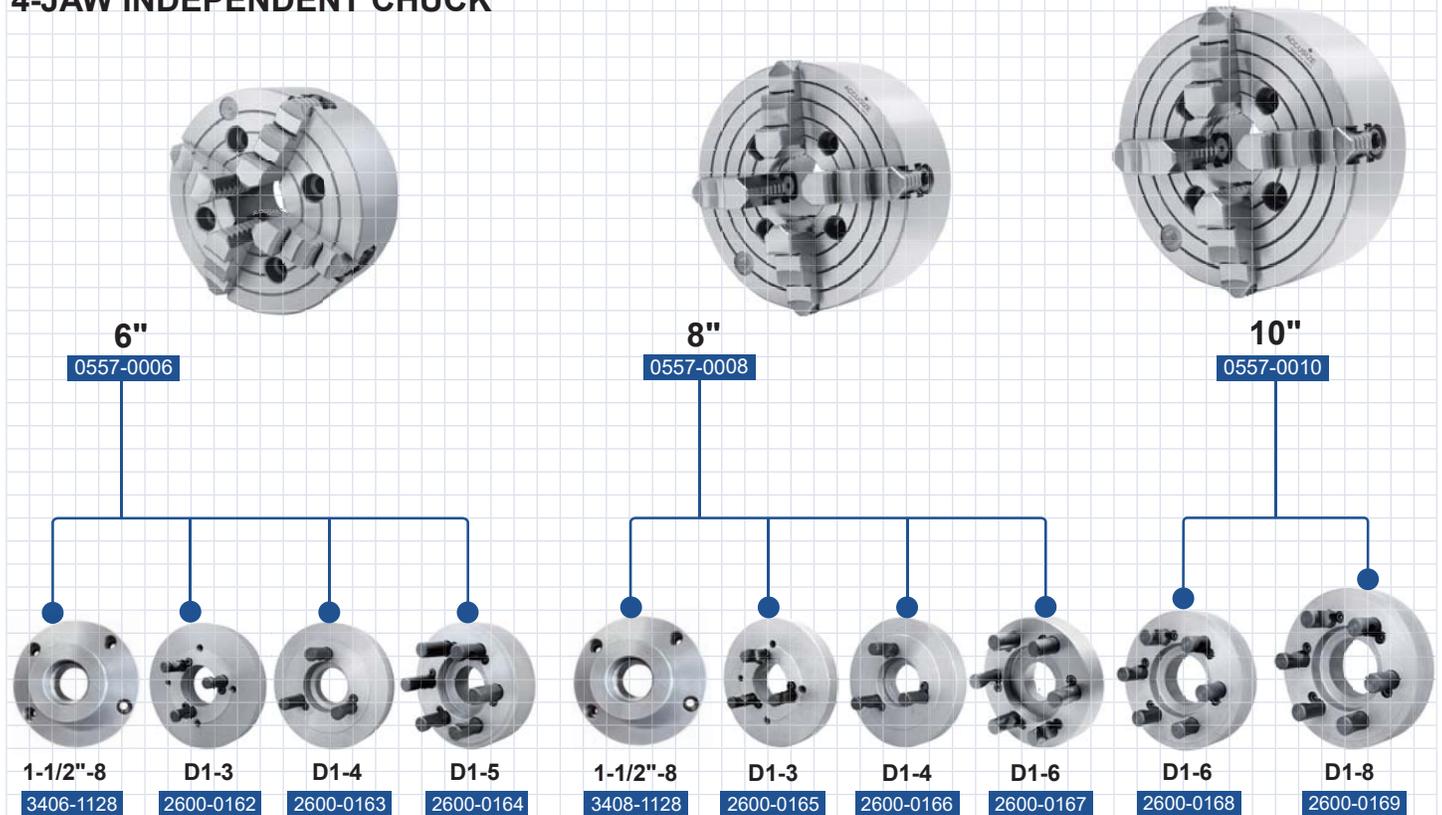
L-00 2700-0502

HIGH PRECISION 4-JAW SELF-CENTERING LATHE CHUCK

6-JAW SELF-CENTERING SCROLL LATHE CHUCK (PLAIN BACK)



4-JAW INDEPENDENT CHUCK



V-FLANGE ER COLLET CHUCK

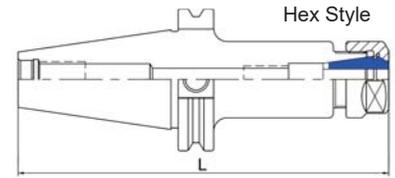
Features:

- For ER16, ER20, ER32, and ER40 collets.
- Made of alloy forged steel, hardened to HRC 52-56.
- Drawbar thread: CAT40: 5/8"-11; BT40: M16x2.
- TIR: 0.00012".
- Wrench not included.

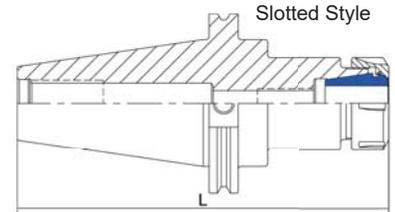


1601-0015

ISO9001



Hex Style



Slotted Style

Item	Taper	Collet Series	Collet Nut Style	Projection Length (L)	Range	Price
1601-0005	CAT40	ER16	Hex	2.76"	1/32" - 3/8"	\$79.00/PC
1601-0010	CAT40	ER16	Hex	4"	1/32" - 3/8"	\$79.00/PC
1601-0025	CAT40	ER20	Hex	2.76"	1/16" - 1/2"	\$79.00/PC
1601-0030	CAT40	ER20	Hex	4"	1/16" - 1/2"	\$79.00/PC
1601-0015	CAT40	ER32	Slotted	2.76"	3/32" - 25/32"	\$79.00/PC
1601-0020	CAT40	ER32	Slotted	4"	3/32" - 25/32"	\$79.00/PC
1601-0035	CAT40	ER40	Slotted	2.76"	1/8" - 1"	\$93.00/PC
1601-0040	CAT40	ER40	Slotted	4"	1/8" - 1"	\$93.00/PC
1608-0040	BT40	ER40	Slotted	4"	1/8" - 1"	\$93.00/PC
1608-0016	BT40	ER16	Hex	4"	1/32" - 3/8"	\$93.00/PC

PREMIUM SERIES, V-FLANGE ER COLLET CHUCK, BALANCED TO 20,000 RPM AT G2.5

Features:

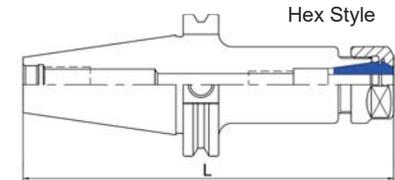
- All ground body.
- Made from alloy steel hardened to HRC 52-56.
- Taper accurately ground exceeding AT3 standard.
- Factory balanced to extend spindle tool life and increase productivity.
- Concentricity less than 0.0002" from taper to collet face.
- A certification included with each holder, documenting TIR, taper accuracy, and balance measurement.
- Coolant through capacity.
- Drawbar thread: CAT40: 5/8"-11; BT40: M16x2.
- Balanced to 20,000 RPM at G2.5.
- TIR: 0.00012"
- Wrench not included.



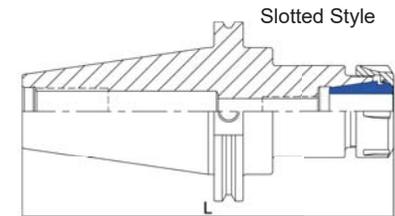
2001-0030

GREAT

ISO9001



Hex Style



Slotted Style

Item	Taper	Collet Series	Collet Nut Style	Projection Length (L)	Range	Price
2001-0005	CAT40	ER16	Hex	2.76"	1/32" - 3/8"	\$115.00/PC
2001-0010	CAT40	ER16	Hex	4"	1/32" - 3/8"	\$115.00/PC
2001-0025	CAT40	ER20	Hex	2.76"	1/16" - 1/2"	\$115.00/PC
2001-0030	CAT40	ER20	Hex	4"	1/16" - 1/2"	\$115.00/PC
2001-0015	CAT40	ER32	Slotted	2.76"	3/32" - 25/32"	\$115.00/PC
2001-0020	CAT40	ER32	Slotted	4"	3/32" - 25/32"	\$115.00/PC
2001-0035	CAT40	ER40	Slotted	2.76"	1/8" - 1"	\$126.00/PC
2001-0040	CAT40	ER40	Slotted	4"	1/8" - 1"	\$126.00/PC
3001-0020	BT40	ER32	Slotted	4"	3/32" - 25/32"	\$115.00/PC

CAT50 V-FLANGE CNC ER COLLET CHUCK

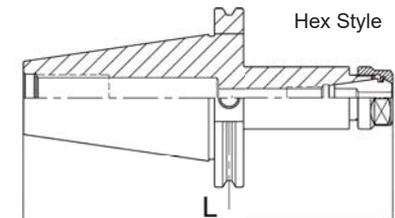
Features:

- Constructed of alloy steel.
- Hardened to HRC 52-56.
- Through-spindle coolant capability.
- Collet seat taper TIR ≤ 0.0002".
- Drawbar thread: 1"-8.
- Wrench not included.

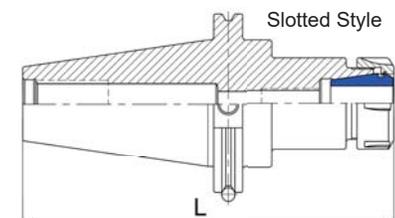


CT50-20E4

ISO9001



Hex Style



Slotted Style

Item	Taper	Collet Series	Collet Nut Style	Projection Length (L)	Range	Price
6782-1095	CAT50	ER32	Slotted	4"	3/32" - 25/32"	\$155.00/PC
6782-1651	CAT50	ER32	Slotted	6"	3/32" - 25/32"	\$172.00/PC
CT50-16E4	CAT50	ER16	Hex	4"	1/32" - 3/8"	\$155.00/PC
CT50-16E6	CAT50	ER16	Hex	6"	1/32" - 3/8"	\$172.00/PC
CT50-20E4	CAT50	ER20	Hex	4"	1/16" - 1/2"	\$155.00/PC
CT50-20E6	CAT50	ER20	Hex	6"	1/16" - 1/2"	\$172.00/PC
CT50-40E4	CAT50	ER40	Slotted	4"	1/8" - 1"	\$155.00/PC
CT50-40E6	CAT50	ER40	Slotted	6"	1/8" - 1"	\$172.00/PC

STRAIGHT SHANK ER COLLET CHUCK

ISO9001

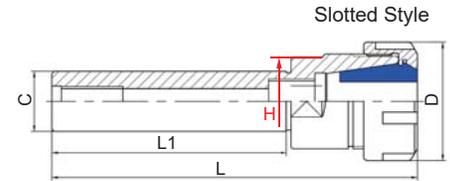
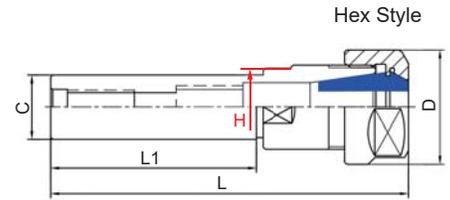
Features:

- Made of high-quality alloy steel.
- Hardened to HRC 56-60.
- Internal screw included.
- Precision ground.
- 0.0002" TIR or better.



0223-0210

Item	Collet Series	Collet Capacity	Collet Nut Dia. (D)	Collet Nut Style	Shank Dia. (C)	Shank Length (L1)	OAL (L)	Flat-to-Flat Dimension (H)	Price
0223-0207	ER16	0.02"-0.393"	1.10"	Hex	3/4"	1.96"	3.35"	0.82"	\$45.00/PC
0223-0208	ER16	0.02"-0.393"	1.10"	Hex	3/4"	3.94"	5.31"	0.82"	\$48.00/PC
0223-0209	ER16	0.02"-0.393"	1.10"	Hex	3/4"	5.51"	6.89"	0.82"	\$55.00/PC
0223-0210	ER20	0.04"-0.511"	1.34"	Hex	3/4"	2.50"	3.93"	0.90"	\$45.00/PC
0223-0211	ER25	0.04"-0.629"	1.65"	Slotted	1"	1.96"	3.97"	1.18"	\$55.00/PC
0223-0212	ER32	0.08"-0.787"	1.97"	Slotted	1"	1.96"	4.00"	1.45"	\$55.00/PC
0223-0213	ER40	0.118"-1.023"	2.48"	Slotted	1"	2.56"	5.00"	1.81"	\$58.00/PC
0223-0214	ER32	0.08"-0.787"	1.97"	Slotted	1"	2.36"	4.39"	1.45"	\$55.00/PC
0223-0216	ER32	0.08"-0.787"	1.97"	Slotted	1-1/4"	6.20"	8.25"	1.65"	\$66.00/PC



ISO40 HOLDER FOR ER COLLET

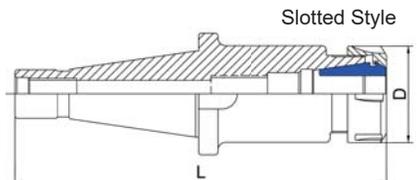
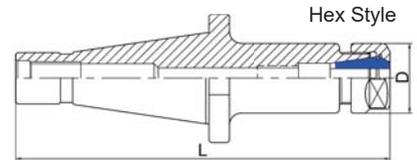
Features:

- TIR: 0.00012"



0536-0003

Item	Collet Series	Collet Capacity	Collet Nut Dia. (D)	Collet Nut Style	Projection Length (L)	Thread	Price
0536-0000	ER16	0.04"-0.393"	1.10"	Hex	100mm	5/8"-11	\$76.00/PC
0536-0001	ER20	0.04"-0.511"	1.34"	Hex	100mm	5/8"-11	\$76.00/PC
0536-0002	ER25	0.04"-0.629"	1.65"	Slotted	100mm	5/8"-11	\$76.00/PC
0536-0003	ER32	0.08"-0.787"	1.97"	Slotted	100mm	5/8"-11	\$76.00/PC
0536-0004	ER40	0.118"-1.023"	2.48"	Slotted	100mm	5/8"-11	\$83.00/PC



PREMIUM SERIES, BT40, CAT40 ER FLOATING TAP COLLET CHUCK

ISO9001

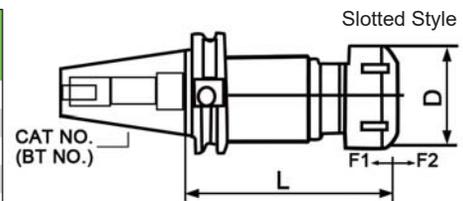
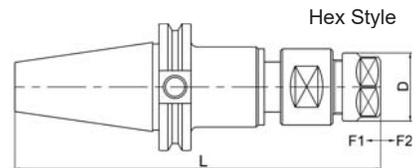
Features:

- Ideal for holding taps and reamers for light-duty tapping tasks.
- 0.197" compression and 0.315" extension via adjustable internal springs.
- Using standard ER collets.
- All critical surfaces precision ground.
- Made from alloy steel hardened to HRC 54-56.
- Rear thread for pull studs: CAT40: 5/8"-11; BT40: M16 x 2.
- TIR: 0.0004"



0537-5985

Item	Taper	Collet Series	Collet Nut Style	D	L	Compression (F1)	Extension (F2)	Price
0537-5983	CAT40	ER16	Hex	1.10"	3.020"	0.197"	0.315"	\$180.00/PC
0537-5984	CAT40	ER20	Hex	1.34"	3.386"	0.197"	0.315"	\$180.00/PC
0537-5985	CAT40	ER32	Slotted	1.65"	3.543"	0.197"	0.315"	\$184.00/PC
0537-6566	BT40	ER16	Hex	1.10"	3.031"	0.197"	0.315"	\$172.00/PC
0537-6577	BT40	ER32	Slotted	1.65"	3.543"	0.197"	0.315"	\$172.00/PC



R8 SHANK ER COLLET CHUCK

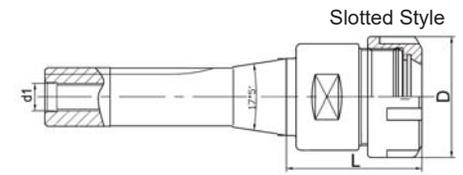
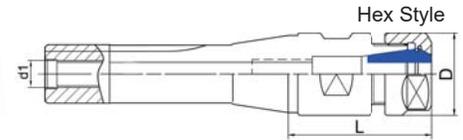
Features:

- Made of high-grade tool steel.
- Hardened and precision ground.
- Max TIR 0.0002" O.D to I.D.
- Max RPM: 8,000 RPM.



0223-0240

GREAT **ISO9001**



Item	Shank	Collet Series	Collet Capacity	Collet Nut Dia. (D)	Collet Nut Style	Gage Length (L)	Drawbar End (d1)	Price
0223-0229	R8	ER16	0.02" - 0.393"	1.10"	Hex	2.00"	7/16"-20	\$69.00/PC
0223-0230	R8	ER20	0.04" - 0.511"	1.34"	Hex	2.36"	7/16"-20	\$69.00/PC
0223-0231	R8	ER25	0.04" - 0.629"	1.65"	Slotted	2.36"	7/16"-20	\$72.00/PC
0223-0232	R8	ER32	0.08" - 0.787"	1.97"	Slotted	2.48"	7/16"-20	\$69.00/PC
0223-0240	R8	ER40	0.118" - 1.023"	2.48"	Slotted	2.83"	7/16"-20	\$72.00/PC

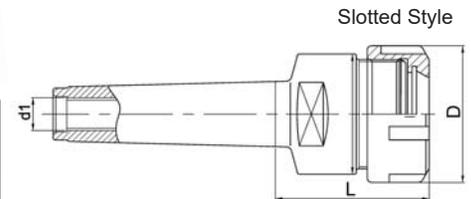
MORSE TAPER SHANK ER COLLET CHUCK

Features:

- Made of high-grade tool steel.
- Premium hardened & all ground body for extended tool life.
- Max TIR 0.0002" O.D. to I.D.
- Max RPM: 8,000 RPM.



0223-0236



Item	Shank	Collet Series	Collet Capacity	Collet Nut Dia. (D)	Collet Nut Style	Gage Length (L)	Drawbar End (d1)	Price
0223-0235	MT2	ER32	0.08" - 0.787"	1.97"	Slotted	2.36"	3/8"-16	\$69.00/PC
0223-0236	MT3	ER32	0.08" - 0.787"	1.97"	Slotted	2.36"	1/2"-13	\$69.00/PC
0223-0237	MT3	ER40	0.118" - 1.023"	2.48"	Slotted	2.75"	1/2"-13	\$72.00/PC
0223-0238	MT4	ER40	0.118" - 1.023"	2.48"	Slotted	2.75"	5/8"-11	\$75.00/PC

5C SHANK ER COLLET CHUCK

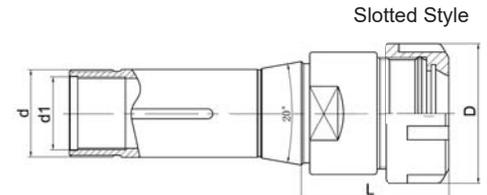
Features:

- Made of high-grade tool steel.
- Hardened and precision ground.
- TIR: 0.0002".



0223-0246

NEW



Item	Shank	Collet Series	Collet Capacity	Collet Nut Dia. (D)	Collet Nut Style	Gage Length (L)	External Thread (d)	Internal Thread (d1)	Price
0223-0245	5C	ER32	0.08" - 0.787"	1.97"	Slotted	2.16"	1.238"-20UNF	1.041"-24UNF	\$72.00/PC
0223-0246	5C	ER40	0.118" - 1.023"	2.48"	Slotted	2.36"	1.238"-20UNF	1.041"-24UNF	\$75.00/PC

HSK63A- ER COLLET CHUCK **BALANCED TO 25,000 RPM AT G2.5**

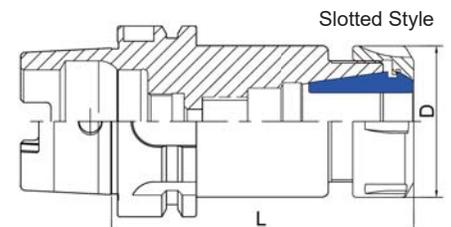
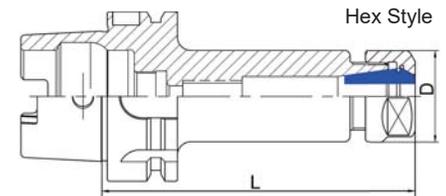
ISO9001

Features:

- Dynamically balanced to G2.5/25,000 RPM to meet demanding need in aggressively high speed machining.
- In a generic standard ER collet nut, an internal ring is off-centered to allow an ER collet to be easily snapped in and held in place. To minimize the off-centering, the ER collet nut is optimized to distribute the flat sides' area to off-set the off-center. The ER collet nut is also balanced with each holder.
- Made from alloy steel hardened to HRC 52-56.
- All critical surfaces are precision ground.
- Concentricity is less than 0.0001" from taper to end mill pocket.
- Each holder comes with a lab certificate on its taper accuracy and runout measurement.
- Coolant through capability.
- TIR: 0.00012".



4001-8468



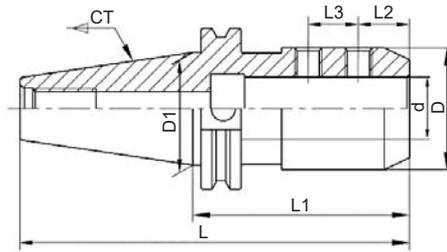
Item	Taper	Collet Series	Collet Nut Dia. (D)	Collet Nut Style	Projection Length (L)	Range	Price
4001-8466	HSK63A	ER16	1.10"	Hex	3.15"	1/32" - 3/8"	\$124.00/PC
4001-8467	HSK63A	ER16	1.10"	Hex	3.94"	1/32" - 3/8"	\$124.00/PC
4001-8468	HSK63A	ER16	1.10"	Hex	6.30"	1/32" - 3/8"	\$146.00/PC
4001-8469	HSK63A	ER20	1.34"	Hex	6.30"	1/16" - 1/2"	\$146.00/PC
4001-8479	HSK63A	ER32	1.97"	Slotted	3.94"	3/32" - 25/32"	\$124.00/PC
4001-8470	HSK63A	ER40	2.48"	Slotted	3.15"	1/8" - 1"	\$126.00/PC
4001-8471	HSK63A	ER40	2.48"	Slotted	4.72"	1/8" - 1"	\$152.00/PC

V-FLANGE CNC END MILL HOLDER

ISO9001

Features:

- Caterpillar V-flange end mill holder.
- Produced in compliance with AT3 standard.
- Made of alloy forged steel for long durable service life.
- Hardened to HRC 52-56.
- End mill socket T.I.R. <0.0002".
- Through spindle coolant capability.
- Retention knobs are sold separately.
- Drawbar thread: CAT40 5/8"-11.
CAT50 1"-8.



6780-7027

CAT40

Item	d	L1	L	D	D1	L2	L3	Price
6780-7024	1/4"	2-1/2"	5-3/16"	13/16"	1-3/4"	25/32"	-	\$70.00/PC
6780-7025	3/16"	2-1/2"	5-3/16"	3/4"	1-3/4"	9/16"	-	\$70.00/PC
6780-7026	3/8"	2-1/2"	5-3/16"	1-1/8"	1-3/4"	25/32"	-	\$73.00/PC
6780-7027	1/2"	2-5/8"	5-5/16"	1-3/4"	1-3/4"	7/8"	-	\$73.00/PC
6780-7028	5/8"	3-3/4"	6-7/16"	1-3/4"	1-3/4"	15/16"	-	\$78.00/PC
6780-7029	3/4"	3-3/4"	6-7/16"	1-3/4"	1-3/4"	1"	-	\$88.00/PC
6780-7030	7/8"	4"	6-11/16"	2-3/64"	1-3/4"	1-1/16"	7/8"	\$91.00/PC
6780-7031	1"	4"	6-11/16"	2-31/64"	1-3/4"	1-1/8"	1"	\$98.00/PC
6780-7032	1-1/4"	4-1/8"	6-13/16"	2-1/2"	1-3/4"	1-1/8"	1"	\$104.00/PC

CAT50

Item	d	L1	L	D	D1	L2	L3	Price
6780-7040	3/8"	2-1/2"	6-1/2"	1-1/4"	2-3/4"	25/32"	-	\$123.00/PC
6780-7043	1/2"	2-5/8"	6-5/8"	1-3/4"	2-3/4"	7/8"	-	\$123.00/PC
6780-7046	5/8"	3-3/4"	7-3/4"	1-3/4"	2-3/4"	15/16"	-	\$123.00/PC
6780-7049	3/4"	3-3/4"	7-3/4"	1-3/4"	2-3/4"	1"	-	\$139.00/PC
6780-7052	7/8"	3-3/4"	7-3/4"	2-3/64"	2-3/4"	1-1/16"	7/8"	\$139.00/PC
6780-7054	1"	4"	8"	2-31/64"	2-3/4"	1-1/8"	1"	\$139.00/PC
6780-7057	1-1/4"	4"	8"	2-3/4"	2-3/4"	1-1/8"	1"	\$142.00/PC
6780-7060	1-1/2"	4"	8"	3-9/64"	2-3/4"	1-1/8"	1"	\$152.00/PC
6780-7063	2"	5-5/8"	9-5/8"	3-15/16"	2-3/4"	1-3/16"	1-7/16"	\$186.00/PC

R8 END MILL HOLDER

Features:

- Hardened and ground.
- Made from high-quality steel forging.
- Precision ground concentric.
- Ground shanks and holes, heat-treated for durable accuracy.
- 7/16"-20 drawbar thread.
- For Bridgeport type end mills.
- TIR: 0.0002".

* For single-end mill only



With R8 Shank

0222-0846

Item	Hole Diameter	Gage Length	Price
0222-0840	1/4"	0.8"	\$29.00/PC
0222-0841	3/16"	0.8"	\$29.00/PC
0222-0842	3/8"	1.11"	\$29.00/PC
0222-0843	1/2"	1.23"	\$29.00/PC
0222-0844	5/8"	2.06"	\$36.00/PC

Item	Hole Diameter	Gage Length	Price
0222-0845*	3/4"	2.57"	\$42.00/PC
0222-0846*	7/8"	3"	\$46.00/PC
0222-0847*	1"	3"	\$53.00/PC
0222-0848*	1-1/4"	3"	\$62.00/PC
0222-0849*	1-1/2"	3.15"	\$70.00/PC

ISO40 END MILL HOLDER

ISO9001

Features:

- TIR: 0.0002".

Item	Hole Dia.	Thread	Price
0534-0038	3/8"	5/8"-11	\$72.00/PC
0534-0012	1/2"	5/8"-11	\$72.00/PC
0534-0058	5/8"	5/8"-11	\$72.00/PC
0534-0034	3/4"	5/8"-11	\$72.00/PC
0534-0001	1"	5/8"-11	\$85.00/PC
0534-0114	1-1/4"	5/8"-11	\$85.00/PC



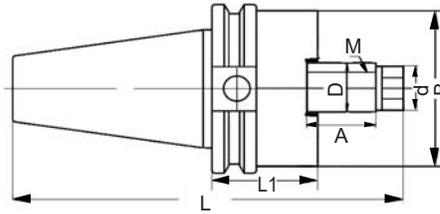
0534-0034

CATERPILLAR V-FLANGE SHELL END MILL HOLDER

ISO9001

Features:

- All these "V" flange tooling is interchangeable with those industrial standard tools with CAT40 / CAT50 CNC equipment or other machining centers.
- Made from alloy steel hardened to HRC 52-56.
- Holds an AT3 taper tolerance or better.
- Drawbar thread: CAT40 5/8"-11.
CAT50 1"-8.
- TIR: 0.0002".



6780-7102

CAT40

Item	D	B	d	A	L1	L	M	Price
6780-7100	1/2"	1-3/8"	0.375"	9/16"	1-3/8"	4-5/8"	1/4" - 28UNF	\$88.00/PC
6780-7102	3/4"	1-3/4"	0.563"	11/16"	1-3/8"	4-3/4"	3/8" - 24UNF	\$93.00/PC
6780-7104	1"	2-1/4"	0.750"	11/16"	2-1/16"	5-7/16"	1/2" - 20UNF	\$95.00/PC
6780-7106	1-1/4"	2-3/4"	0.940"	11/16"	2-1/8"	5-1/2"	5/8" - 18UNF	\$110.00/PC
6780-7108	1-1/2"	3-3/4"	1.874"	15/16"	2-13/32"	6-1/32"	3/4" - 16UNF	\$119.00/PC

CAT50

Item	D	B	d	A	L1	L	M	Price
6780-7110	1/2"	1-3/8"	0.375"	9/16"	1-1/2"	6-1/16"	1/4" - 28UNF	\$119.00/PC
6780-7116	3/4"	1-3/4"	0.563"	11/16"	1-1/2"	6-3/16"	3/8" - 24UNF	\$127.00/PC
6780-7122	1"	2-1/4"	0.750"	11/16"	2"	6-11/16"	1/2" - 20UNF	\$132.00/PC
6780-7130	1-1/4"	2-3/4"	0.940"	11/16"	3-1/2"	8-3/16"	5/8" - 18UNF	\$132.00/PC
6780-7136	1-1/2"	3-3/4"	1.874"	15/16"	4"	8-15/16"	3/4" - 16UNF	\$161.00/PC



6780-7116

ISO40 SHELL MILL HOLDER

Features:

- TIR: 0.0002"

Item	Neck Dia.	Thread	Size of Arbors Screw		Price
			Dia.	Thread	
0535-0034	3/4"	5/8"-11	0.563"	3/8"-24UNF	\$84.00/PC
0535-0001	1"	5/8"-11	0.750"	1/2"-20UNF	\$88.00/PC
0535-0114	1-1/4"	5/8"-11	0.940"	5/8"-18UNF	\$95.00/PC



0535-0034

CATERPILLAR V-FLANGE TO MORSE TAPER ADAPTOR

CAT40

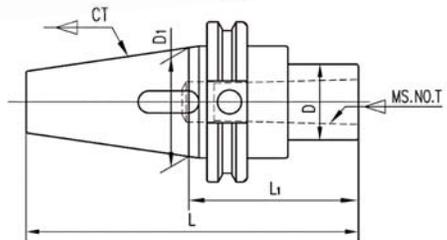
Item	MT#	L1	L	D	D1	Price
6781-0600	MT1	1-3/4"	4-7/16"	1"	1-3/4"	\$88.00/PC
6781-0605	MT2	2-7/16"	5-1/8"	1-1/4"	1-3/4"	\$83.00/PC
6781-0610	MT3	3"	5-11/16"	1-3/4"	1-3/4"	\$83.00/PC
6781-0615	MT4	3-7/8"	6-9/16"	2"	1-3/4"	\$88.00/PC



6781-0610

CAT50

Item	MT#	L1	L	D	D1	Price
6781-0650	MT1	1-1/2"	5-1/2"	1"	2-3/4"	\$132.00/PC
6781-0655	MT2	2"	6"	1-5/8"	2-3/4"	\$128.00/PC
6781-0660	MT3	2-1/2"	6-1/2"	1-5/8"	2-3/4"	\$128.00/PC
6781-0665	MT4	3-3/8"	7-11/32"	2"	2-3/4"	\$132.00/PC



#40 & #50 TAPER CATERPILLAR V-FLANGE JACOBS TAPER HOLDER

ISO9001

Features:

- Meets or exceeds ANSI specifications.
- Constructed of alloy steel.
- Hardened to HRC 52-56 for long service life.
- Shot peening finish.
- Jacobs taper T.I.R. <0.0002".
- Drawbar thread: CAT40: 5/8"-11;
CAT50: 1"-8.

CAT40

Item	Jacobs Taper	Projection Length	Price
6781-5481	JT2	1.50"	\$75.00/PC
6781-5482	JT3	1.50"	\$75.00/PC
6781-5484	JT6	1.50"	\$75.00/PC
6781-5485	JT33	1.50"	\$75.00/PC

CAT50

Item	Jacobs Taper	Projection Length	Price
6781-5487	JT2	1.50"	\$109.00/PC
6781-5488	JT3	1.50"	\$109.00/PC
6781-5490	JT6	1.50"	\$109.00/PC
6781-5491	JT33	1.50"	\$109.00/PC



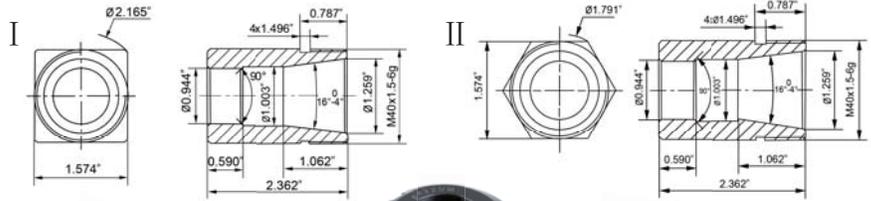
6781-5482

ER 32 COLLET BLOCK

ISO9001

Features:

- Use standard ER collets for fast set-ups on CNC machines.
- For parallel, square or hex shapes as well as for cross-hole drilling at 60, 90 or 120 degrees.
- Made of alloy tool steel hardened and ground to 0.0005" flatness, sureness and parallelism.
- May be used standing upright.
- Block dimensions are approximately 1-3/4" x 1-3/4" x 2-3/4".
- 15/16" through-hole allows for long parts to be machined.
- ER wrench not included; can be purchased separately.



6920-3204



6920-3206



Item	Base Code	Description	Price
6920-3204	I	Square ER-32 Collet Block	\$93.00/PC
6920-3206	II	Hex ER-32 Collet Block	\$93.00/PC

ER32 WRENCH

Item	Price
0532-K032	\$12.00/PC

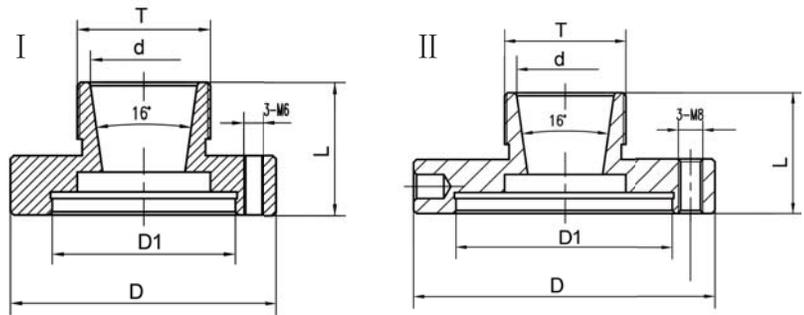


ER 32 COLLET CHUCK

ISO9001

Features:

- Compatible with CNC milling lathe tool engraving machines.
- Mount to your choice of a backplate to use on a lathe.
- Can also be used as a fixture on a milling table.
- Concentricity: 0.0016".
- Supplied with an ER32 wrench.



ER32-0100



Item	Base Code	D	D1	L	d	Screw (T)	Collet	Price
ER32-0080	I	3.149" (80mm)	2.165" (55mm)	1.653" (42mm)	1.259" (32mm)	M40 x 1.5	ER32	\$99.00/PC
ER32-0100	II	3.937" (100mm)	2.834" (72mm)	1.653" (42mm)	1.259" (32mm)	M40 x 1.5	ER32	\$99.00/PC

ER COLLET CHUCK NUT **BALANCED TO 18,000 RPM AT G2.5**

Features:

- Collet clamping nut for CNC milling collet chuck holder.
- Made from alloy steel hardened to HRC 50-52.
- Balanced to 18,000 RPM at G2.5.
- Tolerance: 0.0003" maximum.
- Thread tolerance class: 4H.



ER16-ANUT

Hex

Slotted

ER32-NUT

Item	Collet Series	Style	D	L	M	Price
ER16-ANUT	ER16	Hex	1.102"	0.689"	M22 x 1.5	\$15.00/PC
ER32-NUT	ER32	Slotted	1.969"	0.886"	M40 x 1.5	\$20.00/PC
ER40-NUT	ER40	Slotted	2.480"	1.004"	M50 x 1.5	\$23.00/PC

ER COLLET NUT WRENCH

Features:

- For ER chuck nuts with slots.

Item	Collet Series	Open	Length (L)	Price
0532-K025	ER25	1.496"-1.653"	6.614"	\$12.00/PC
0532-K032	ER32	1.771"-2.047"	7.480"	\$12.00/PC
0532-K040	ER40	2.165"-2.480"	8.267"	\$14.00/PC
0532-K050	ER50	3.070"-3.346"	9.448"	\$14.00/PC



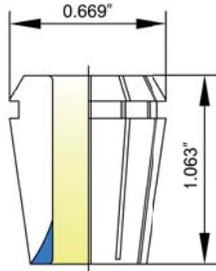
0532-K032

ER 16 COLLET

ISO9001

Features:

- Made from alloy spring steel and hardened to HRC 44-48.
- Collets are checked for runout individually at 4 contact points on a high tolerance benchmarked testing rod. Runout is 0.0005".
- The size of the collet is the largest size it can hold and able to hold anything smaller within the collapsing range.
- The surface on this collet has been specially treated to increase its tool life.



1625-0316

ER-16 Collet

Item	Size	Accuracy	Price
1625-0316	3/16"	0.0005"	\$16.00/PC
1625-0014	1/4"		\$16.00/PC
1625-0038	3/8"		\$16.00/PC
1625-0045	4-5mm		\$16.00/PC
1625-0056	5-6mm		\$16.00/PC
1625-0067	6-7mm		\$16.00/PC
1625-0078	7-8mm		\$16.00/PC
1625-0089	8-9mm		\$16.00/PC

ER METRIC COLLET SET, DIN 6499B

ISO9001

Features:

- Made from alloy spring steel and hardened to HRC 44-48.
- Collets are checked for runout individually at 4 contact points on a testing rod.
- For size 3.0mm and larger the runout is 0.0003" (0.008mm); For sizes under 3.0mm, the runout is 0.00059" (0.015mm).
- Use the table (right) for selecting your replacement collets.
- ER collets all have unique length and diameter measurements.



3350-0584



Item	Size	Piece	Price
3350-0580	ER8 1-4.5mm by 0.5mm	8	\$155.00/SET
3350-0581	ER11 1-7mm by 0.5mm	13	\$174.00/SET
3350-0582	ER16 1-10mm by 1mm	10	\$130.00/SET
3350-0583	ER20 2-13mm by 1mm	12	\$150.00/SET
3350-0584	ER25 2-16mm by 1mm	15	\$186.00/SET
3350-0585	ER32 3-20mm by 1mm	18	\$249.00/SET
3350-0586	ER40 4-26mm by 1mm	23	\$334.00/SET

ER STYLE COLLET

ISO9001

Features:

- Design affords highest gripping power.
- True double angle for better accuracy.
- 16 jaws for powerful gripping and parallel clamping.
- Runout is 0.0005".



0223-0853

ER-32

Item	Size	Range	Price
0223-0847	1/8"	0.125"-0.086"	\$16.00/PC
0223-0849	3/16"	0.187"-0.148"	\$16.00/PC
0223-0853	1/4"	0.250"-0.211"	\$16.00/PC
0223-0855	5/16"	0.312"-0.273"	\$16.00/PC
0223-0859	3/8"	0.375"-0.336"	\$16.00/PC
0223-0863	7/16"	0.437"-0.398"	\$16.00/PC
0223-0865	1/2"	0.500"-0.461"	\$16.00/PC
0223-0869	9/16"	0.562"-0.523"	\$16.00/PC
0223-0871	5/8"	0.625"-0.586"	\$16.00/PC
0223-0877	3/4"	0.750"-0.711"	\$16.00/PC

ER-40

Item	Size	Range	Price
0223-0890	1/8"	0.125"-0.086"	\$18.00/PC
0223-0892	3/16"	0.187"-0.148"	\$18.00/PC
0223-0896	1/4"	0.250"-0.211"	\$18.00/PC
0223-0898	5/16"	0.312"-0.273"	\$18.00/PC
0223-0902	3/8"	0.375"-0.336"	\$18.00/PC
0223-0906	7/16"	0.437"-0.398"	\$18.00/PC
0223-0908	1/2"	0.500"-0.461"	\$18.00/PC
0223-0910	9/16"	0.562"-0.523"	\$18.00/PC
0223-0912	5/8"	0.625"-0.586"	\$18.00/PC
0223-0918	3/4"	0.750"-0.711"	\$18.00/PC
0223-0926	7/8"	0.875"-0.836"	\$18.00/PC
0223-0932	1"	1.000"-0.961"	\$18.00/PC



GREAT

0223-0880

ER-8 Set

Item	PCS.	Range	Price
0223-0715	6pcs/set	1/32"-3/16"	\$127.00/SET

ER-11 Set

Item	PCS.	Range	Price
0223-0735	7pcs/set	1/32"-1/4"	\$105.00/SET

ER-16 Set

Item	PCS.	Range	Price
0223-0765	10pcs/set	1/32"-3/8"	\$127.00/SET

ER-20 Set

Item	PCS.	Range	Price
0223-0799	12pcs/set	1/16"-1/2"	\$145.00/SET

ER-25 Set

Item	PCS.	Range	Price
0223-0835	15pcs/set	1/16"-5/8"	\$205.00/SET

ER-32 Set

Item	PCS.	Range	Price
0223-0880	18pcs/set	3/32"-25/32"	\$245.00/SET

ER-40 Set

Item	PCS.	Range	Price
0223-0935	23pcs/set	1/8"-1"	\$329.00/SET

ER COLLET SYSTEM WITH R8 CHUCK

GREAT

ISO9001

Features:

- Wide holding range of each collet requires fewer collets and changes.
- Unique self-releasing system eliminates sticking.
- Suitable for all milling and drilling operations.
- Flute holding capability for the highest concentricity and clamping power.
- Accuracy to 0.0004".
- Each set includes: 1 chuck holder with nominal size collets, 1 non-slip spanner wrench, and 1 molded plastic case.



0223-0984

8-pc set includes the collets of the following sizes: 3/32", 1/8", 3/16", 7/32", 1/4", 5/16", 11/32", & 3/8"; it also includes a wrench & an R8 BridgePort chuck holder

Item	Size	Chuck Holder	Price
0223-0944	ER-16	R8	\$245.00/SET

10-pc set includes the collets of the following sizes: 3/32", 1/8", 3/16", 7/32", 1/4", 5/16", 11/32", 3/8", 7/16", & 1/2"; it also includes a wrench & an R8 BridgePort chuck holder

Item	Size	Chuck Holder	Price
0223-0954	ER-20	R8	\$260.00/SET

ER COLLET SYSTEM WITH CAT40 OR BT40 CHUCK
BALANCED TO 12,000 RPM AT G6.3



BT40-ER40

12-pc set includes the collets of the following sizes: 3/32", 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 3/4", 9/16", 5/8", 1/2", & 11/16"; it also includes a wrench & a CAT40-ER32-70mm chuck holder

Item	Size	Chuck Holder	Price
CT40-ER32	ER-32	CAT40-70mm	\$314.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", & 1"; it also includes a wrench & a CAT40-ER40-80mm chuck holder

Item	Size	Chuck Holder	Price
CT40-ER40	ER-40	CAT40-80mm	\$337.00/SET



0223-0984

12-pc set includes the collets of the following sizes: 3/32", 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", & 3/4"; it also includes a wrench & an R8 BridgePort chuck holder

Item	Size	Chuck Holder	Price
0223-0974	ER-32	R8	\$314.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", & 1"; it also includes a wrench & an R8 BridgePort chuck holder

Item	Size	Chuck Holder	Price
0223-0984	ER-40	R8	\$351.00/SET

ISO9001



BT40-ER40

12-pc set includes the collets of the following sizes: 3/32", 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 3/4", 9/16", 5/8", 1/2", & 11/16"; it also includes a wrench & a BT40-ER32-70mm chuck holder

Item	Size	Chuck Holder	Price
BT40-ER32	ER-32	BT40-70mm	\$314.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", & 1"; it also includes a wrench & a BT40-ER40-80mm chuck holder

Item	Size	Chuck Holder	Price
BT40-ER40	ER-40	BT40-80mm	\$337.00/SET

ER COLLET SYSTEM WITH ER32 OR ER40 CHUCK

Features:

- All collets are made of high-quality alloy spring steel. 0.0005" accuracy.
- Hardened and precision ground.
- Drawbar thread: 3/4" straight shank: 3/8" x 16;
MT2 shank: 3/8" x 16;
MT3 shank: 1/2" x 13;
5C shank: O.D & I.D threaded;
- Each set includes: 1 chuck holder with nominal size collets,
1 non-slip spanner wrench, and 1pc molded plastic case.



0223-0308

11-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", & 3/4"; it also includes a wrench & a 5C-ER32 chuck holder

Item	Size	Chuck Holder	Price
0223-0301	ER-32	5C	\$282.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", & 1"; it also includes a wrench & a 5C-ER40 chuck holder

Item	Size	Chuck Holder	Price
0223-0302	ER-40	5C	\$326.00/SET

11-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", & 3/4"; it also includes a wrench & an MT2-ER32 chuck holder

Item	Size	Chuck Holder	Price
0223-0303	ER-32	MT2	\$255.00/SET

GREAT

ISO9001



0223-0308

11-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", & 3/4"; it also includes a wrench & an MT3-ER32 chuck holder

Item	Size	Chuck Holder	Price
0223-0304	ER-32	MT3	\$255.00/SET

11-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", & 3/4"; it also includes a wrench & a 3/4" straight -ER32 chuck holder

Item	Size	Chuck Holder	Price
0223-0305	ER-32	ER32-3/4" x 2"	\$262.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", & 1"; it also includes a wrench & an MT3-ER40 chuck holder

Item	Size	Chuck Holder	Price
0223-0308	ER-40	MT3	\$308.00/SET

ER-16 COLLET SET & CHUCK

ISO9001

Features:

- 10pcs ER16 chuck set includes the following collet size: 1/32", 1/16", 3/32", 1/8", 3/16", 7/32", 1/4", 5/16", 11/32", & 3/8".
- All collets are made of high-quality alloy spring steel. 0.0005" accuracy.
- 1pc spanner with clamping nut.
- 1pc chuck holder.
- Drawbar thread CAT40: 5/8"-11.
3/4 straight shank: 3/8"-16.
- In a fitted plastic case.



CT40-ER16



CT40-ER16



0223-0307

Item	Chuck Holder	Price
CT40-ER16	CAT40-ER16-2.76"	\$252.00/SET
0223-0307	ER16-3/4" x 4"	\$154.00/SET

OZ COLLET SYSTEM WITH OZ25 CHUCK

GREAT ISO9001

Features:

- Fast, single-step tool changes—no need to adjust the drawbar when swapping out cutting tools.
- Spring collets are hardened and ground for maximum holding power and ultra-precision.
- Drawbar thread: MT3 shank: 1/2" - 13;
R8 shank: 7/16" - 20;
- Collets snap into the nut first, then the assembly is tightened into the holder.
- Accuracy: 1/8" - 3/8": 0.00039" (0.010mm);
7/16" - 1": 0.00059" (0.015mm);
- Each set includes: 1pc chuck holder with 1pc OZ clamping nut, nominal size OZ full grip collets, 1pc non-slip spanner wrench, and 1pc molded plastic case.



0223-0362



0223-0361



0223-0362

7-pc set includes the collets of the following sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" and 1"; it also includes a wrench & an R8 BridgePort chuck holder

Item	Size	Chuck	Price
0223-0361	OZ25	R8	\$216.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" and 1"; it also includes a wrench & an R8 BridgePort chuck holder

Item	Size	Chuck	Price
0223-0362	OZ25	R8	\$326.00/SET

7-pc set includes the collets of the following sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" and 1"; it also includes a wrench & an MT3 chuck holder

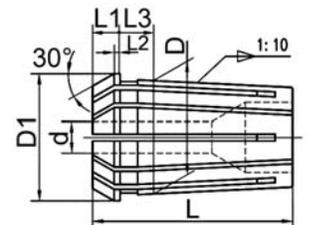
Item	Size	Chuck	Price
0223-0363	OZ25	MT3	\$216.00/SET

15-pc set includes the collets of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" and 1"; it also includes a wrench & an MT3 chuck holder

Item	Size	Chuck	Price
0223-0364	OZ25	MT3	\$326.00/SET



OZ25



OZ25 collet: (B type)

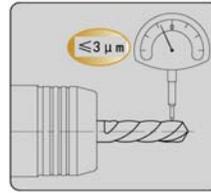
Model No.	D	D1	d	L	L1	L2	L3
OZ25	1.295"	1.261"	3/32" - 1"	2.047"	0.236"	0.055"	0.393"

HIGH PRECISION HYDRAULIC CHUCK SYSTEM

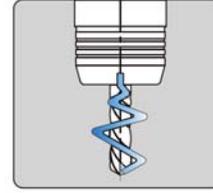


High-Quality Alloy Steel Construction

- Manufactured from premium alloy steel enriched with Cr, Ni, and Mo elements, offering exceptional material stability, superior wear resistance, and rust protection.
- Vacuum heat-treated for consistent precision.



High runout accuracy, less than 0.003mm (0.00012")



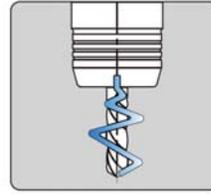
Vibration damping



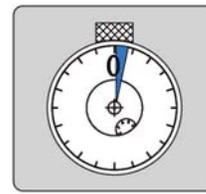
Easy handling and tool change with a force 6/12NM

Ease of Tool Installation and Operation

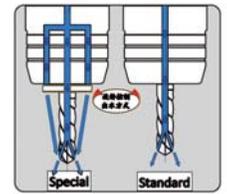
- Simple tool installation using a tightening torque of **6 Nm to 12 Nm**, enabling quick and user-friendly operation.
- High clamping force and superior torque capacity for demanding machining tasks.
- Quick tool changes without requiring auxiliary devices, improving efficiency.



High clamping force, the torque reaches



Fast set-up time



Two types of cooling



HIGH PRECISION HYDRAULIC CHUCK SYSTEM

The Actuation Screw

The actuation piston is moved with the actuation screw and tightened to a dead stop without a torque wrench.

The Toolholder Body

The toolholder body includes the machine interface, e.g. HSKSK, JIS-BT, CAT, etc.

The Actuation Piston

The actuation piston compresses the hydraulic fluid into the chamber system.

The Length Adjustment Screw

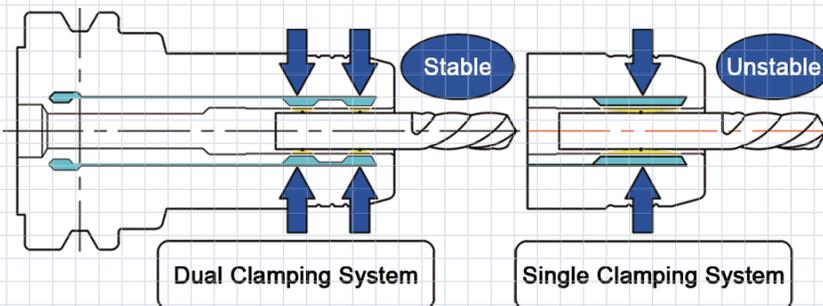
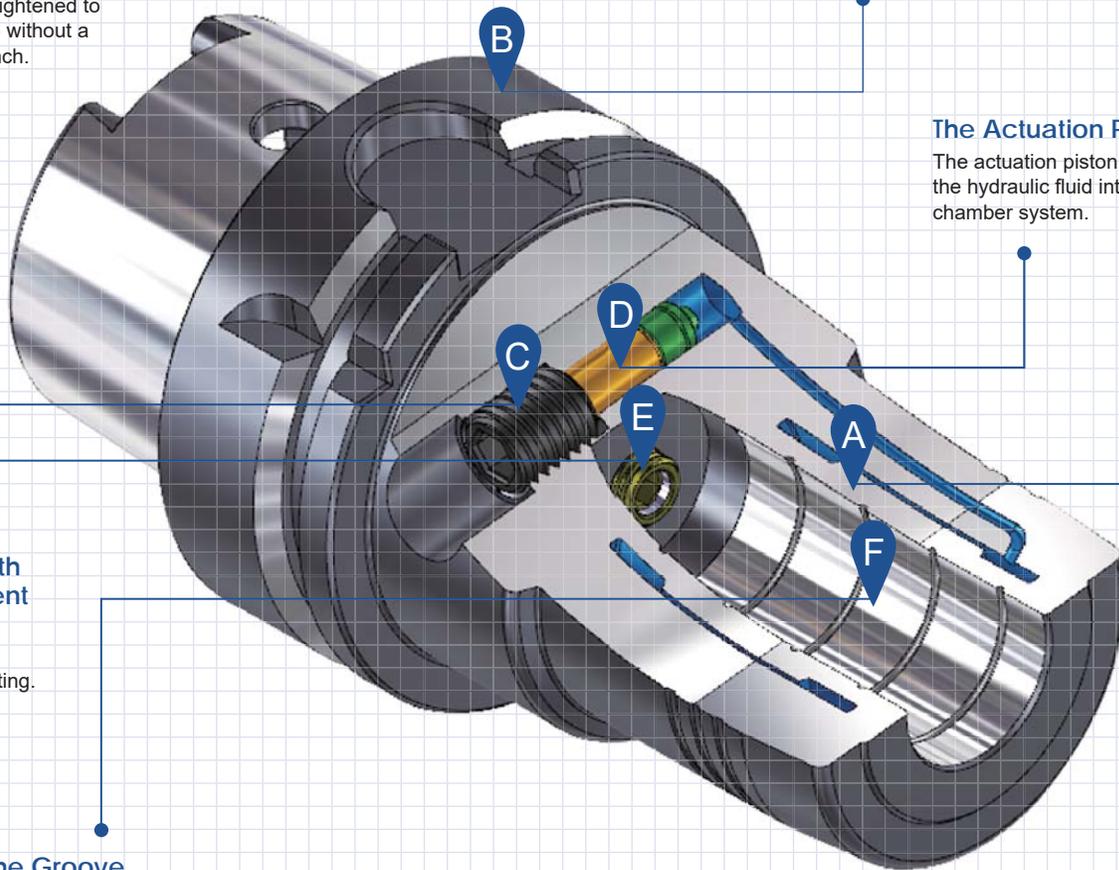
For fast and easy presetting.

The Groove

The enormous clamping pressure of the TENDO hydraulic expansion toolholder creates a displacement of oil, grease, or lubricant residues into the groove causing surfaces to remain dry.

High-Quality Alloy Steel Construction

The expansion sleeve expands against the tool shank. This clamping process first centers the tool shank before fully clamping it over the whole surface. The chamber system fills TH with hydraulic fluid, exerting a damping effect on the clam-eped tool. Wear on the cutting edge of the tool is minimized, service life is increased by up to 40 %.



- "Dual clamping points system" for stable and high precision clamping.

CAT40 / CAT50 HIGH PRECISION HYDRAULIC CHUCK

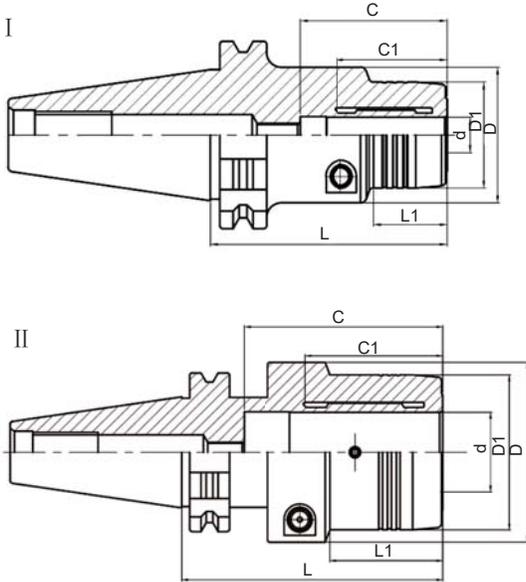
HIGH PRECISION HYDRAULIC CHUCK
CanCNC Hydraulic Chuck System

Superior Surface Finish and Vibration Dampening

- Provides excellent surface finish with minimal vibration marks during machining.
- Operates with **low noise levels** due to exceptional vibration-dampening properties.
- Dynamic runout accuracy maintained within **0.003 mm (0.00012")**, ensuring precision at high speeds.
- Balancing specifications:
CAT40 G2.5@20000 RPM
CAT50 G2.5@15000 RPM
- Wrench supplied.

GREAT

ISO9001



CAT40

Item	Taper	Base Code	d	D1	D	L	L1	Insection Length (C1)	Insection Length (C)	Price
8040-0014	CAT40-PHC 1/4"-3.15"	I	1/4"	1.18"	1.73"	3.15"	1.28"	1.18"	1.86"	\$348.00/PC
8040-0516	CAT40-PHC 5/16"-3.15"	I	5/16"	1.26"	1.73"	3.15"	1.28"	1.18"	1.86"	\$348.00/PC
8040-0038	CAT40-PHC 3/8"-3.15"	I	3/8"	1.34"	1.73"	3.15"	1.28"	1.50"	2.00"	\$348.00/PC
8040-0012	CAT40-PHC 1/2"-3.15"	I	1/2"	1.42"	1.73"	3.15"	1.28"	1.50"	2.00"	\$348.00/PC
8040-0058	CAT40-PHC 5/8"-3.15"	I	5/8"	1.57"	1.73"	3.15"	1.28"	1.57"	2.04"	\$348.00/PC
8040-0034	CAT40-PHC 3/4"-3.16"	I	3/4"	1.73"	1.73"	3.16"	2.42"	1.57"	2.04"	\$348.00/PC
8040-0001	CAT40-PHC 1"-4.92"	II	1"	2.05"	2.48"	4.92"	2.56"	1.97"	2.56"	\$360.00/PC
8040-0114	CAT40-PHC 1-1/4"-4.92"	II	1-1/4"	2.32"	2.50"	4.92"	2.56"	2.20"	2.59"	\$418.00/PC

CAT50

Item	Taper	Base Code	d	D1	D	L	L1	Insection Length (C1)	Insection Length (C)	Price
8150-0014	CAT50-PHC 1/4"-3.54"	I	1/4"	1.10"	1.81"	3.54"	1.02"	1.18"	1.83"	\$468.00/PC
8150-0516	CAT50-PHC 5/16"-3.54"	I	5/16"	1.18"	1.89"	3.54"	1.02"	1.18"	1.83"	\$468.00/PC
8150-0038	CAT50-PHC 3/8"-3.54"	I	3/8"	1.42"	2.05"	3.54"	1.02"	1.42"	2.24"	\$468.00/PC
8150-0012	CAT50-PHC 1/2"-3.54"	I	1/2"	1.50"	2.13"	3.54"	1.02"	1.42"	2.24"	\$468.00/PC
8150-0058	CAT50-PHC 5/8"-3.54"	I	5/8"	1.65"	2.28"	3.54"	1.10"	1.99"	2.56"	\$468.00/PC
8150-0034	CAT50-PHC 3/4"-3.54"	I	3/4"	1.81"	2.36"	3.54"	1.10"	1.81"	2.56"	\$468.00/PC
8150-0001	CAT50-PHC 1"-4.13"	II	1"	2.13"	2.60"	4.13"	1.50"	1.93"	2.56"	\$489.00/PC
8150-0114	CAT50-PHC 1-1/4"-4.13"	II	1-1/4"	2.52"	2.83"	4.13"	1.65"	2.24"	3.15"	\$489.00/PC

HSK63A / HSK100A HIGH PRECISION HYDRAULIC CHUCK

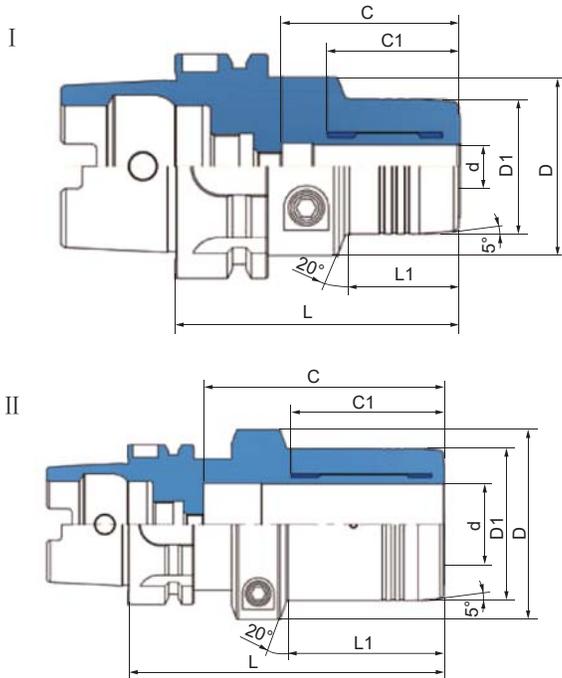
**HIGH PRECISION
HYDRAULIC CHUCK**
CanCNC Hydraulic Chuck System

Superior Surface Finish and Vibration Dampening

- Provides excellent surface finish with minimal vibration marks during machining.
- Operates with **low noise levels** due to exceptional vibration-dampening properties.
- Dynamic runout accuracy maintained within **0.003 mm (0.00012")**, ensuring precision at high speeds.
- Balancing specifications:
HSK63A G2.5@30000 RPM
HSK100A G2.5@20000 RPM
- Wrench supplied.

GREAT

ISO9001



HSK63A

Item	Taper	Base Code	d	D1	D	L	L1	Insection Length (C1)	Insection Length (C)	Price
8263-0014	HSK63A-PHC 1/4"-3.15"	I	1/4"	1.26"	1.91"	3.15"	1.28"	1.18"	1.83"	\$438.00/PC
8263-0516	HSK63A-PHC 5/16"-3.15"	I	5/16"	1.34"	1.99"	3.15"	1.28"	1.33"	1.83"	\$438.00/PC
8263-0038	HSK63A-PHC 3/8"-3.15"	I	3/8"	1.42"	2.07"	3.15"	1.28"	1.48"	1.97"	\$438.00/PC
8263-0012	HSK63A-PHC 1/2"-3.15"	I	1/2"	1.50"	2.07"	3.15"	1.28"	1.48"	1.97"	\$438.00/PC
8263-0058	HSK63A-PHC 5/8"-3.54"	I	5/8"	1.65"	2.05"	3.54"	1.62"	1.67"	2.36"	\$438.00/PC
8263-0034	HSK63A-PHC 3/4"-3.54"	I	3/4"	1.81"	2.05"	3.54"	1.65"	1.67"	2.01"	\$438.00/PC
8263-0001	HSK63A-PHC 1"-4.72"	II	1"	2.09"	2.48"	4.72"	2.22"	1.97"	3.35"	\$456.00/PC
8263-0114	HSK63A-PHC 1-1/4"-4.92"	II	1-1/4"	2.36"	2.91"	4.92"	2.42"	2.36"	3.74"	\$462.00/PC

HSK100A

Item	Taper	Base Code	d	D1	D	L	L1	Insection Length (C1)	Insection Length (C)	Price
8100-0014	HSK100A-PHC1/4"-3.35"	I	1/4"	1.26"	1.97"	3.35"	1.28"	1.30"	1.83"	\$682.00/PC
8100-0516	HSK100A-PHC5/16"-3.35"	I	5/16"	1.34"	1.97"	3.35"	1.28"	1.18"	1.83"	\$682.00/PC
8100-0038	HSK100A-PHC3/8"-3.54"	I	3/8"	1.42"	2.05"	3.54"	1.28"	1.42"	1.83"	\$682.00/PC
8100-0012	HSK100A-PHC1/2"-3.54"	I	1/2"	1.50"	2.05"	3.54"	1.48"	1.57"	1.97"	\$682.00/PC
8100-0058	HSK100A-PHC5/8"-3.94"	I	5/8"	1.65"	2.28"	3.94"	1.57"	1.69"	2.13"	\$682.00/PC
8100-0034	HSK100A-PHC3/4"-4.13"	I	3/4"	1.81"	2.36"	4.13"	1.79"	1.57"	2.09"	\$682.00/PC
8100-0001	HSK100A-PHC1"-4.33"	II	1"	2.09"	2.48"	4.33"	2.24"	1.93"	2.83"	\$709.00/PC
8100-0114	HSK100A-PHC1-1/4"-4.33"	II	1-1/4"	2.44"	2.95"	4.33"	2.24"	2.17"	2.83"	\$709.00/PC

CAT40 HIGH PRECISION HYDRAULIC CHUCK SET

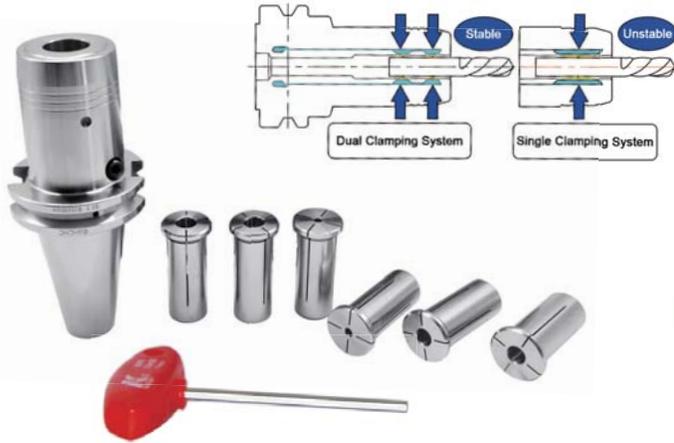






Unique Internal Structure for Maximum Precision and Rigidity

- Engineered with a unique internal structure that ensures high precision and exceptional rigidity.
- Components are precisely aligned and locked in one seamless motion for optimal performance.
- **A dual-clamping system guarantees enhanced accuracy and stability.**
- Runout accuracy within **3 μm (0.00012")** at 4x the diameter, ensuring high precision over extended tool lengths.
- In a fitted aluminum case.



8040-6058



6-pc set includes the hydraulic sleeves of the following sizes: 3/16", 1/4", 5/16", 3/8", 1/2", & 5/8"; it also includes a tightening torque & a CAT40-PHC 3/4"-3.16" hydraulic chuck

7-pc set includes the hydraulic sleeves of the following sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", & 1"; it also includes a tightening torque & a CAT40-PHC 1-1/4"-4.92" hydraulic chuck

Item	Chuck Holder	Price
8040-6058	CAT40-PHC 3/4"-3.16"	\$728.00/SET

Item	Chuck Holder	Price
8040-7001	CAT40-PHC 1-1/4"-4.92"	\$858.00/SET

HSK63A HIGH PRECISION HYDRAULIC CHUCK SET







8263-6058



6-pc set includes the hydraulic sleeves of the following sizes: 3/16", 1/4", 5/16", 3/8", 1/2", & 5/8"; it also includes a tightening torque & a HSK63A-PHC 3/4"-3.54" hydraulic chuck

7-pc set includes the hydraulic sleeves of the following sizes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", & 1"; it also includes a tightening torque & a HSK63A-PHC 1-1/4"-4.92" hydraulic chuck

Item	Chuck Holder	Price
8263-6058	HSK63A-PHC 3/4"-3.54"	\$886.00/SET

Item	Chuck Holder	Price
8263-7001	HSK63A-PHC 1-1/4"-4.92"	\$998.00/SET

**REDUCTION SLEEVES 4 SLOTS FOR HIGH PRECISION
HYDRAULIC CUCK**

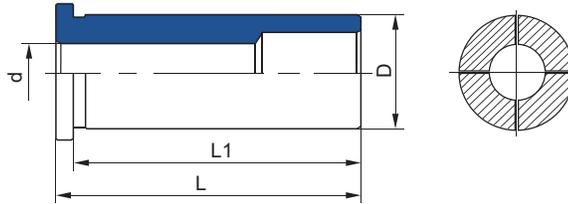
HIGH PRECISION
HYDRAULIC CHUCK
CanCNC Hydraulic Chuck System

ISO9001



Features:

- Runout tolerance within 0.003 mm (0.00012") at 4xD diameters position.
- This type can satisfied most hydraulic chuck of band and waterproofed.
- Maximum flexibility with optimum cost control: one toolholder, several clamping diameters. A higher metal cutting volume than direct clamping, due to a higher torque.



5371-3956



5371-3951

Item	Type	d	D	L	L1	Price
5371-3950	HS3/4"-1/8"	1/8"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3951	HS3/4"-3/16"	3/16"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3952	HS3/4"-1/4"	1/4"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3953	HS3/4"-5/16"	5/16"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3954	HS3/4"-3/8"	3/8"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3955	HS3/4"-7/16"	7/16"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3956	HS3/4"-1/2"	1/2"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3957	HS3/4"-9/16"	9/16"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3958	HS3/4"-5/8"	5/8"	3/4"	2.10"	1.99"	\$66.00/PC
5371-3959	HS1-1/4"-1/8"	1/8"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3960	HS1-1/4"-3/16"	3/16"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3961	HS1-1/4"-1/4"	1/4"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3962	HS1-1/4"-5/16"	5/16"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3963	HS1-1/4"-3/8"	3/8"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3964	HS1-1/4"-7/16"	7/16"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3965	HS1-1/4"-1/2"	1/2"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3966	HS1-1/4"-9/16"	9/16"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3967	HS1-1/4"-5/8"	5/8"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3968	HS1-1/4"-11/16"	11/16"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3969	HS1-1/4"-3/4"	3/4"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3970	HS1-1/4"-7/8"	7/8"	1-1/4"	2.54"	2.40"	\$72.00/PC
5371-3971	HS1-1/4"-1"	1"	1-1/4"	2.54"	2.40"	\$72.00/PC



PULL STUD RETENTION KNOB FOR V-FLANGE CATERPILLAR TOOLING



- Made from alloy steel with heat treatment and hardened to HRC 58.
- Each retention knob is individually inspected using magnetic particles to ensure it is free of any cracks.
- All mating surfaces are precision ground.



6780-0041

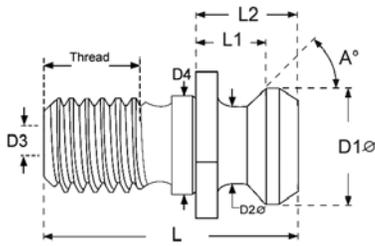


6780-1055



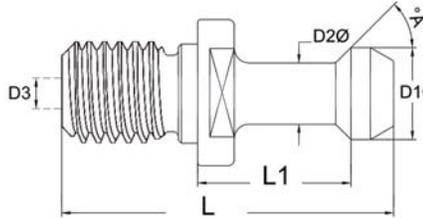
6780-1025

ANSI / AMSE



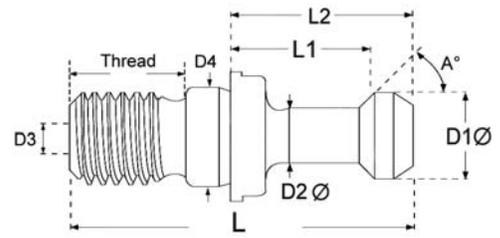
STYLE A

ANSI / JMTBA (PT)



STYLE B

JMTBA (BT) / JMTBA (PT)



STYLE C

Item	Style	A	D1	D2	D3	D4	L	L1	L2	Hole or Solid	Price
CAT40, 5/8"-11 Thread											
6780-0041	A	45°	0.740"	0.490"	0.280"	0.636"	1.625"	0.440"	0.640"	Hole	\$12.00/PC
6780-0042	A	45°	0.740"	0.490"	N/A	0.636"	1.625"	0.440"	0.640"	Solid	\$12.00/PC
6780-1025	C	45°	0.589"	0.392"	N/A	0.636"	2.250"	0.988"	1.264"	Solid	\$12.00/PC
6780-1044	C	45°	0.589"	0.392"	0.200"	0.636"	2.250"	0.988"	1.264"	Hole	\$12.00/PC
CAT50, 1"-8 Thread											
6780-0044	A	45°	1.140"	0.820"	0.468"	N/A	2.300"	0.700"	1.000"	Hole	\$20.00/PC
6780-0045	A	45°	1.140"	0.820"	N/A	N/A	2.300"	0.700"	1.000"	Solid	\$20.00/PC
6780-1055	B	45°	0.903"	0.668"	N/A	N/A	3.080"	1.384"	1.778"	Solid	\$20.00/PC
6780-1057	C	45°	0.903"	0.668"	0.390"	1.026"	3.355"	1.384"	1.778"	Hole	\$20.00/PC

Machine Builder	Taper	Item #	Machine Builder	Taper	Item #	Machine Builder	Taper	Item #
Daewoo	CAT40	6780-1025	Hurco	CAT40 Coolant	6780-0041	Okuma	CAT40	6780-0042
Daewoo	CAT50	6780-1055	Kia	CAT40	6780-1025	Okuma	CAT40 Coolant	6780-0041
Fadal	CAT40	6780-0042	Kitamura	CAT40	6780-1025	Roku-Roku	CAT40	6780-1025
Fadal	CAT40 Coolant	6780-0041	Mazak	CAT40	6780-0042	Sharp	CAT40	6780-1025
Fryer	CAT40	6780-1025	Mazak	CAT40 Coolant	6780-0041	Sharp	CAT40 Coolant	6780-1044
Fryer	CAT40 Coolant	6780-1044	Mazak	CAT50	6780-0045	Toshiba	CAT40	6780-1025
Fryer	CAT50 Coolant	6780-1057	Mazak	CAT50 Coolant	6780-0044	Toshiba	CAT50	6780-1055
Haas	CAT40	6780-1025	Miyano	CAT40	6780-1025	Toyoda	CAT40	6780-1025
Haas	CAT40 Coolant	6780-1044	Miyano	CAT40 Coolant	6780-1044	Toyoda	CAT50 Coolant	6780-1057
Haas	CAT50	6780-1055	OKK	CAT40	6780-1025	YCI	CAT40	6780-1025
Haas	CAT50 Coolant	6780-1057	OKK	CAT40 Coolant	6780-1044	YCI	CAT50	6780-1055
Hurco	CAT40	6780-0042	Okuma & Howa	CAT40	6780-1025	—	—	—

When working on CNC machines, cutting tools and pull studs must be mounted to the appropriate tool holder. Traditional single-direction tool-lock fixtures may not provide sufficient support for tightening or loosening these components during production, assembly, or maintenance. An ideal universal tool-lock base incorporates both an upward-facing snap ring and a downward-facing snap ring, allowing it to securely accommodate CNC pull studs, ER nuts, and various other tooling from both directions.

BT30 OR BT40 TOOL HOLDER TIGHTENING FIXTURE (DOUBLE-HEAD, ANODIZED & HARDENED)

Features (rephrased for parallel structure and clarity):

- **Double-ended design** for mounting from both sides—makes tool-holder installation and removal faster and more convenient.
- **Rugged construction** from aluminum alloy and alloy steel to protect tool holders and withstand higher torque without slippage.
- **Sliding block positioning** ensures correct orientation and prevents skidding under load.
- **Innovative composite materials** for durability and comprehensive protection of the holder.

ISO9001



BT30-8530



Item	Applicable Model	Price
BT30-8530	BT30	\$252.00/PC
BT40-8540	BT40	\$270.00/PC

CAT40 COLLET CHUCK TIGHTENING FIXTURE (ALSO FITS SK40, JT40)

ISO9001

Features:

- **Compatible with** CAT40, SK40, and JT40 holders.
- **Secure grip** with non-slip, hardened engagement surfaces to handle higher torque.
- **Easy installation** on a workbench or fixture plate; reliable alignment that protects the tool holder from damage.
- **Alloy construction** (aluminum + steel) featuring a conical interface to secure and protect the tool holder.



Item #CT40-7840
\$270⁰⁰
pc

CAT50 COLLET CHUCK TIGHTENING FIXTURE (ALSO FITS SK50, JT50)

ISO9001

Features:

- **Compatible with** CAT50, SK50, and JT50 holders.
- **Non-slip, hardened surfaces** for safe tightening and loosening at higher torque.
- **Sturdy, light alloy design** that helps avoid skidding and extends fixture life.
- **Linear (or 'low-profile') design** allows stable positioning and comprehensive protection of tool holders.



Item #CT50-7850
\$394⁰⁰
pc

HORIZONTAL/VERTICAL CNC TOOLHOLDER TIGHTENING FIXTURE

ISO9001

Features:

- **Versatile mounting**—use horizontally or vertically to simplify workflow and reduce setup time.
- **Compact, bench-friendly design**—easy to install on work tables, tool carts, or machine stands.
- **Quick access** to cutting tools and pull studs for faster tool changes.
- **Secure clamp** that locks the holder firmly to prevent slipping, ensuring both safety and precision.

Item	Taper of Tool Holder	Outsize (mm)	Weight	Price
LD00-BT40	BT40	205 x 98.5 x 128	8.38lbs	\$119.00/PC
LD00-CT40	CAT40	205 x 98.5 x 128	8.38lbs	\$119.00/PC
LD00-CT50	CAT50	275 x 150 x 198	25.13lbs	\$172.00/PC



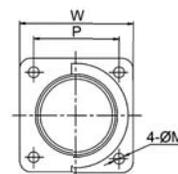
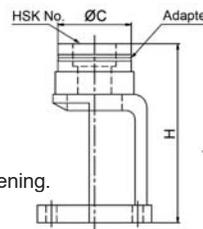
LD00-CT50

HSK TOOLING TIGHTENING FIXTURE

ISO9001

Features:

- **Fits HSK A/B/C/D/E/F holders** (check model lists for compatibility).
- **Interchangeable** with certain NBT and BT holders (e.g., HSK0-0032 supports NBT30 & BT30).
- **Needle-roller lock design** ensures a reliable grip without damaging the holder.
- **Bearing-type tightening** helps protect holders from scratches and boosts assembly efficiency.
- **Durable yet flexible**—made from hardened alloy steel/aluminum for repeated high-torque tightening.
- **Easy to mount** with four cap bolts (included) for secure attachment to the work surface.



Item	Suitable to Tool Holder	C	H	W	P	M	Price
HSK0-0032	HSK32A/B/C/D/E/F, NBT30/BT30	2.677"	6.692"	3.149"	4.173"	M10	\$155.00/PC
HSK0-0040	HSK40A/B/C/D/E/F	2.677"	6.692"	3.149"	4.173"	M10	\$155.00/PC
HSK0-0050	HSK50A/B/C/D/E/F	2.874"	6.692"	3.149"	4.173"	M10	\$155.00/PC
HSK0-0063	HSK63A/B/C/D/E/F, NBT40/BT40	3.425"	7.480"	3.149"	4.173"	M10	\$170.00/PC



HSK0-0050

5C PRECISION ROUND COLLET SET HARDENED & GROUND

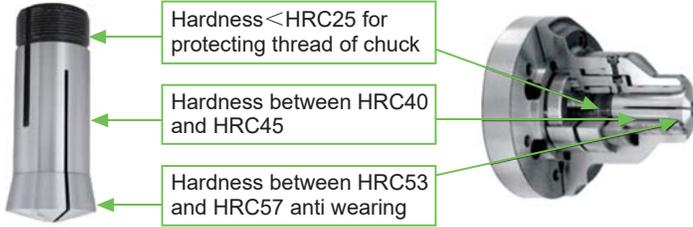
GREAT ISO9001

Features:

- Precision hardened and ground
- Internal / external threads
- Accuracy: 0.0005" TIR
- In a fitted aluminum case (0200-0573 in a fitted case)

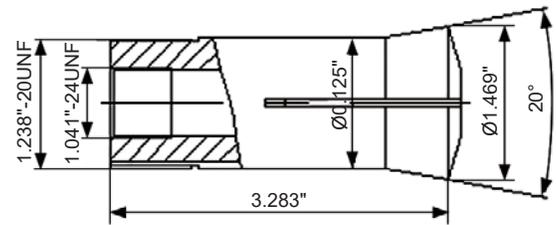


0200-0574



d	L	TIR
1/32"-1/16"	1/4"	$\leq 0.015\text{mm}$ $\leq 0.0005"$
>1/16"-1/8"	1/2"	
>1/8"-3/8"	1"	
>3/8"-5/8"	1-1/2"	
>5/8"-7/8"	2"	

Item	No. of pcs	Range	Price
0200-0571	15pcs/set	1/8"-1" x 16ths	\$228.00/SET
0200-0572	29pcs/set	1/8"-1" x 32nds	\$452.00/SET
0200-0573	57pcs/set	1/8"-1" x 64ths	\$712.00/SET
0200-5551	14pcs/set	3, 4, 5, 6, 8, 10, 12, 14, 15, 16, 18, 20, 22, & 25 mm	\$226.00/SET
0200-5552	24pcs/set	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, & 26 mm	\$377.00/SET



5C HEX COLLET SET
(7pcs/set: 1/4" - 7/8")

ISO9001

Features:

- 7pcs/set: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", & 7/8"
- Made of high-quality spring steel
- Precision hardened and ground
- Collet ends OD & ID threaded
- Accuracy: 0.0005" TIR
- In a fitted case



Item #0223-0309
\$160⁰⁰ set

5C SQUARE COLLET SET
(6pcs/set: 1/4" - 3/4")

ISO9001

Features:

- 6pcs/set: 1/4", 5/16", 3/8", 1/2", 5/8", & 3/4"
- Made of high-quality spring steel
- Precision hardened and ground
- Collet ends OD & ID threaded
- Accuracy: 0.0005" TIR
- In a fitted case



Item #0223-0310
\$160⁰⁰ set

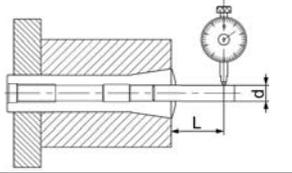
R8 PRECISION ROUND COLLET SET HARDENED & GROUND

ISO9001

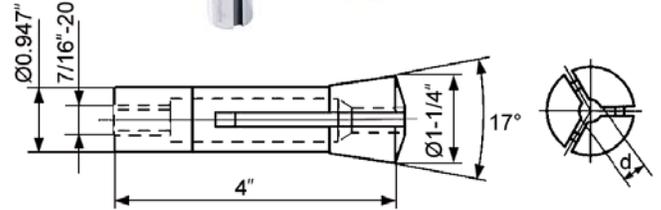
Features:

- Precision hardened and ground
- Fit any standard R8 spindle
- Accuracy: 0.0005" TIR
- Drawbar thread: 7/16"-20
- In a fitted case

d	L	TIR
1/32"-1/16"	1/4"	≤0.015mm
1/16"-1/8"	1/2"	
1/8"-3/8"	1"	≤0.0005"
3/8"-5/8"	1-1/2"	
5/8"-7/8"	2"	




0200-0831



Item	No. of pcs	Range	Price
0200-0828	7pcs/set	1/8"-7/8" x 8ths	\$99.00/SET
0200-0829	13pcs/set	1/8"-7/8" x 16ths	\$176.00/SET
0200-0830	25pcs/set	1/8"-7/8" x 32nds	\$306.00/SET
0200-0831	19pcs/set	2-20mm x 1mm	\$245.00/SET

MORSE TAPER #2 ROUND COLLET SET

ISO9001

(7pcs/set: 1/8" - 1/2")

Features:

- 7pcs/set: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", & 1/2"
- Threads for drawbar: 3/8"-16
- Precision hardened and ground
- Accuracy: 0.0006" TIR
- In a fitted case



Item #0223-0311
\$128⁰⁰
set

MORSE TAPER #3 ROUND COLLET SET

ISO9001

(7pcs/set: 1/8" - 3/4")

Features:

- 7pcs/set: 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", & 3/4"
- Threads for drawbar: 3/8"-16
- Precision hardened and ground
- Accuracy: 0.0006" TIR
- In a fitted case



Item #0223-0312
\$139⁰⁰
set

SURFACE ROUGHNESS COMPARATOR (INCH/METRIC)

Applications:

- Quickly determine approximate surface finish quality by direct comparison—either visually or with a magnifying glass.
- Ideal for on-site or in-process checks in a machine shop, inspection lab, or QC environment.

Features:

- **Six key machining methods** covered: turning, horizontal milling, vertical milling, plain grinding, external grinding, and flat lapping.
- **Wide roughness range:** from 2 to 500 µin (0.05 µm to 12.5 µm), making it easy to compare everything from coarse to very fine finishes.
- **Convenient format:** each finish sample is bonded in a compact panel and labeled clearly for quick reference.
- **Protective fitted case** included for easy transport and storage.



How to Use:

- **Select the finish range** closest to your part's expected roughness.
- **Compare** the sample to the part surface—visually or under magnification—to estimate the part's roughness.
- **Record** approximate Ra values in both µin and µm if needed.

Item #3602-0226
\$315⁰⁰
set

Specifications:

Turning		Vertical Milling		Horizontal Milling		Plain Grinding		External Grinding		Plat Lapping	
um	uin	um	uin	um	uin	um	uin	um	uin	um	uin
12.5	500	12.5	500	12.5	500	1.6	63	1.6	63		
6.3	250	6.3	250	6.3	250	0.8	32	0.8	32		
3.2	125	3.2	125	3.2	125	0.4	16	0.4	16		
1.6	63	1.6	63	1.6	63	0.2	8	0.2	8		
0.8	32	0.8	32	0.8	32	0.1	4			0.1	4
0.4	16	0.4	16	0.4	16	0.05	2			0.05	2

CNC INTEGRAL KEYLESS CHUCK

Features:

- High precision keyless chuck-arbor is integrated for a single-piece construction.
- Single-piece construction provides for increased accuracy and greater rigidity.
- Balanced design.
- Increases holding power when tightened by wrench, preventing tool slippage.
- Safer than separate-shank models.
- Easy to use.
- TIR: 0.002".
- Wrench supplied.

GREAT
ISO9001



Item	Capacity	Shank	Drawbar Thread	Price
0222-0890	1/32-1/2"	CAT40	5/8"-11	\$219.00/PC
0222-0892	1/32-5/8"	CAT40	5/8"-11	\$230.00/PC
0222-0894	1/32-1/2"	CAT50	1"-8	\$306.00/PC
0222-0896	1/32-5/8"	CAT50	1"-8	\$318.00/PC
0222-0990	1/32-1/2"	BT40	M16x2	\$219.00/PC

STRAIGHT SHANK DRILL CHUCK ARBOR

Item	Description	Price
6300-1603	1/2"-JT33	\$18.00/PC
6300-1604	1/2"-JT6	\$18.00/PC
6300-1608	5/8"-JT33	\$20.00/PC
6300-1609	5/8"-JT6	\$20.00/PC



6300-1608

R8 SHANK DRILL CHUCK ARBOR

R8 Shank to Jacobs Taper

Item	R8 to JT	Price
0222-0771	R8-JT1	\$22.00/PC
0222-0772	R8-JT2	\$22.00/PC
0222-0773	R8-JT3	\$22.00/PC
0222-0774	R8-JT33	\$22.00/PC
0222-0775	R8-JT6	\$22.00/PC
0222-0776	R8-JT4	\$24.00/PC



0222-0772

MORSE TAPER DRILL CHUCK ARBOR WITH TANG



0222-0757

Morse Taper to Jacobs Taper

Item	MT to JT	Price
0222-0745	2MT-1JT	\$14.00/PC
0222-0746	2MT-2JT	\$14.00/PC
0222-0747	2MT-3JT	\$14.00/PC
0222-0748	2MT-4JT	\$14.00/PC
0222-0750	2MT-6JT	\$14.00/PC
0222-0751	2MT-33JT	\$14.00/PC
0222-0752	3MT-1JT	\$18.00/PC

Item	MT to JT	Price
0222-0753	3MT-2JT	\$18.00/PC
0222-0754	3MT-3JT	\$18.00/PC
0222-0755	3MT-4JT	\$18.00/PC
0222-0756	3MT-5JT	\$18.00/PC
0222-0757	3MT-6JT	\$18.00/PC
0222-0758	3MT-33JT	\$18.00/PC
0222-0759	4MT-2JT	\$20.00/PC
0222-0760	4MT-3JT	\$20.00/PC
0222-0761	4MT-4JT	\$20.00/PC
0222-0762	4MT-5JT	\$20.00/PC
0222-0763	4MT-6JT	\$20.00/PC
0222-0764	4MT-33JT	\$20.00/PC
0222-0766	5MT-3JT	\$33.00/PC
0222-0767	5MT-4JT	\$33.00/PC

PRECISION KEYLESS DRILL CHUCK, HEAVY-DUTY WITH INTEGRATED SHANK, TITANIUM JAWS

Features:

- Heavy-duty design for CNC & manual drilling & counterboring operations.
- High precision keyless chuck-arbor integrated for a single-piece construction.
- Integral shank design more compact than a combined drill chuck and arbor, eliminating the possibility of a chuck slipping off its arbor.
- Single-piece construction provides for increased accuracy and greater rigidity.
- Safer than separate shank models.
- Titanium Jaws hardened to HRC 60.
- Increased holding power when tightened by wrench, preventing tool slippage.
- Easy to use.
- TIR: 0.003".
- Wrench supplied.

GREAT
ISO9001



0537-1203

Item	Capacity	Shank	Drawbar Thread	Price
0537-1208	1/16-1/2"	R8	7/16"-20	\$108.00/PC
0537-1202	1/16-1/2"	MT2	Tang	\$88.00/PC
0537-1203	1/16-1/2"	MT3	Tang	\$95.00/PC
0537-1204	1/16-1/2"	MT4	Tang	\$108.00/PC
0537-5801	1/16"-5/8"	R8	7/16"-20	\$112.00/PC
0537-5802	1/16-5/8"	MT2	Tang	\$95.00/PC
0537-5803	1/16-5/8"	MT3	Tang	\$98.00/PC
0537-5804	1/16-5/8"	MT4	Tang	\$112.00/PC

PRECISION KEYLESS DRILL CHUCK

Features:

- Designed for toolroom and production machinery where accuracy, gripping power, and keyless features are desired.
- Precision production line uses.
- Easily closed by hand.
- Does not slip.
- TIR: 0.004".

GREAT
ISO9001

0222-0876

Item	Capacity	Jacobs Taper	Price
0222-0870	1/64-1/4"	1JT	\$58.00/PC
0222-0872	1/32-3/8"	2JT	\$58.00/PC
0222-0874	1/32-3/8"	33JT	\$58.00/PC
0222-0876	1/32-1/2"	6JT	\$65.00/PC
0222-0878	1/32-1/2"	33JT	\$65.00/PC
0222-0879	1/32-5/8"	3JT	\$73.00/PC
0222-0880	1/32-5/8"	6JT	\$73.00/PC
0222-0884	1/32-3/4"	3JT	\$88.00/PC



DRILL CHUCK KEY TYPE

Features:

- All parts are made of high-grade alloy steel, and heat-treated resulting in great durability.
- TIR: 0.005".
- Wrench supplied.

ISO9001



Item	Capacity	Jacobs Taper	Price
0222-0701	1/32-1/4"	JT1	\$23.00/PC
0222-0702	1/32-3/8"	JT2	\$26.00/PC
0222-0703	1/32-1/2"	JT6	\$33.00/PC
0222-0704	1/32-1/2"	JT33	\$33.00/PC
0222-0705	1/32-5/8"	JT3	\$42.00/PC
0222-0708	1/32-5/8"	JT33	\$42.00/PC
0222-0706	3/16-3/4"	JT3	\$50.00/PC



0222-0703

MEDIUM-DUTY LIVE CENTER SET

ISO9001

Features:

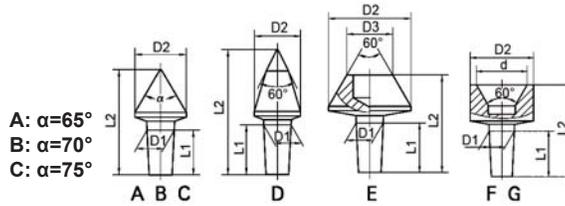
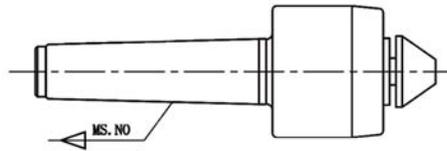
- Body made of special tool steel hardened and ground with special taper mount for quick change of points.
- Precision needle bearings used for high accuracy and long life.
- Accuracy guaranteed to 0.012" to 0.0039" at the center head.
- In a fitted plastic case.

Benefits:

- Less heat is generated due to the spring plate at the end of the angular bearing.
- Complete with (7) interchangeable points.

Applications:

- Might be used for heavy-duty work since the point and body acts as a solid.



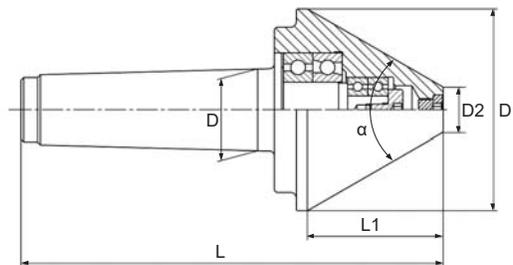
6920-3427

Item	Morse Taper	D1	L1	A		B		C		D			E			F			G			Price
				D2	L2	D2	L2	D2	L2	D2	L2	D2	D3	L2	D2	L2	d	D2	L2	d		
6920-3426	3MT	0.47"	0.945"	0.787"	1.89"	0.79"	0.71"	0.79"	1.59"	0.71"	2.20"	1.37"	0.59"	1.97"	0.87"	1.65"	0.71"	1.38"	1.89"	1.18"	\$215.00/SET	
6920-3427	4MT	0.59"	1.18"	1.10"	2.42"	1.10"	2.18"	1.10"	2.02"	1.02"	2.87"	2.16"	1.18"	2.42"	1.57"	2.16"	1.37"	2.16"	2.36"	1.89"	\$252.00/SET	

BULL NOSE LIVE CENTER

Features:

- The head is made of high carbon alloy steel.
- The live center has a combination of deep groove ball bearing.
- Higher grade of ball bearing allows this live center to be more accurate in runout.
- TIR: 0.0004".
- In a fitted case.



5312-1810

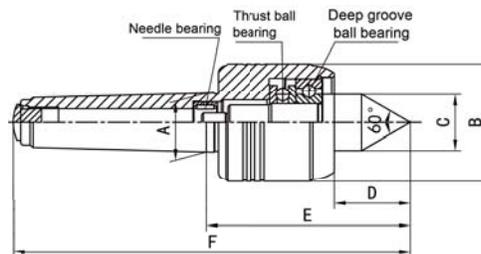
Item	Morse Taper	Model	D	D1	D2	L1	L	TIR	α	Maximum Weight of Work Piece	Max RPM	Weight	Price
5312-1010	MT2	SX-63-MT2	0.70"	2.50"	0.81"	1.46"	5.76"	0.0004"	60°	440lbs	2500	1.98lbs	\$150.00/PC
5312-1410	MT3	SX-100-MT3	0.94"	4.00"	1.00"	2.00"	6.42"	0.0004"	75°	880lbs	2500	6.39lbs	\$216.00/PC
5312-1810	MT4	SX-128-MT4	1.23"	5.04"	1.57"	2.26"	7.78"	0.0004"	75°	1760lbs	2000	10.47lbs	\$284.00/PC
5312-2210	MT5	SX-160-MT5	1.75"	6.22"	1.81"	2.89"	8.99"	0.0004"	75°	3000lbs	1500	23.15lbs	\$416.00/PC

PRECISION MEDIUM-DUTY LIVE CENTER FOR GENERAL PURPOSE ON MANUAL ENGINE LATHES

Features:

- Accuracy guaranteed within 0.0002".
- Each live center has a combination of a deep groove ball bearing, a thrust ball bearing and a needle bearing.
- The anti-dust seal can prevent cutting fluid and dust from entering into the center bearing.
- The 60° rotating spindle is made from carbon alloy steel with heat treat to HRC58±2 for high rigidity and wear resistance.
- In a fitted plastic case.

GREAT ISO9001



0537-6437



0537-6437

Item	Model	A	B	C	D	E	F	Maximum Weight of Work Piece	Max RPM	Tolerance	Price
0537-6436	MT2	0.7"	1.77"	0.87"	1.26"	3.15"	5.83"	800lbs	3500	0.0002"	\$68.00/PC
0537-6437	MT3	0.94"	2.09"	1.04"	1.26"	3.31"	6.69"	1000lbs	3000	0.0002"	\$83.00/PC
0537-6438	MT4	1.23"	2.48"	1.18"	1.54"	4.09"	8.35"	1200lbs	2500	0.0002"	\$95.00/PC
0537-6439	MT5	1.75"	3.07"	1.73"	2.09"	5.35"	10.20"	2600lbs	2000	0.0002"	\$136.00/PC

PRECISION BLOCK SET

Features:

- Hardened steel, hardness HRC 50–60 on 6 sides.
- Precision ground on all sides.
- An 11-hole block includes 5 tapped holes (5/16"-18 for EG02-0405 for clamping and 6 untapped holes drilled through).
- A 23-hole block includes 5 tapped holes (3/8"-16 for EG06-0411 & EG02-0412, 5/8"-11 for EG06-0415 & EG02-0416) for clamping and 18 untapped holes drilled.
- Drilled hole size: 0.500-0.501" for EG02-0406.
- Cross drilling design gives minimum weight and maximum strength.
- Extremely versatile for precision layout, grinding and set-up work.
- Each set contains two matched blocks.



Item	Size	Desc.	Parallelism	Squareness	Size Range	Price
EG06-0411	1-2-3"	23 Holes	0.0002"	0.0003"/1"	±0.0002"	\$36.00/SET
EG02-0412	25-50-75mm	23 Holes	0.005mm	0.0075/25mm	±0.005mm	\$36.00/SET
EG02-0405	1-2-3"	11 Holes	0.0002"	0.0001"/1"	±0.0003"	\$39.00/SET
EG02-0406	1-2-3"	1 Hole	0.0002"	0.0003"/1"	±0.0002"	\$36.00/SET
EG02-0407	1-2-3"	No hole	0.0002"	0.0003"/1"	±0.0002"	\$36.00/SET
EG06-0415	2-4-6"	23 Holes	0.0003"	0.0003"/1"	±0.0005"	\$185.00/SET
EG02-0416	2-3-4"	23 Holes	0.0003"	0.0003"/1"	±0.0003"	\$117.00/SET

ULTRA PRECISION 1-2-3 BLOCK SET, 23 HOLE, 1 PAIR SET, PREMIUM PACKAGE

Features:

- Heat treated and hardened to HRC 58-62 on 6 sides.
- Each 23-hole block includes 5 tapped holes that are 3/8"-16 for clamping and 18 untapped holes.
- Cross drilling design enables minimum weight and maximum strength.
- Each set contains two matched blocks.
- In a fitted plastic case.



EG28-0420

Item	Parallelism	Squareness	Size Range	Price
EG28-0420	0.0002"	0.0001"/1"	±0.0002"	\$70.00/SET
EG28-0421	0.0002"	0.0003"/1"	±0.0002"	\$52.00/SET

ULTRA-PRECISION 1-2-3 BLOCK SET WITH SCREWS

Features:

- With 23 Holes.
- Squareness: 0.0001"/1".
- Parallelism: ±0.0001".
- Height accuracy in pair: ±0.0001".
- Hardness: HRC 56-60.
- Finished from 6-16 micro inches.
- Nominal tapping: 0.0001" to 0.0003".
- 23 holes; 5 holes tapped to 3/8"-16 and others are untapped.
- Precision ground on all sides.
- Squareness on all sides.
- Surface finish.
- Oversize to allow nominal tapping.

Each set includes:

- 5 pieces 3/8"-16 socket head cap screws.
- 1 hex key.
- In a fitted plastic case.



Item #EG02-0408

\$60⁰⁰ set

10PC PRECISION ANGLE BLOCK SET

GREAT

Features:

- Size 3" long x 1/4" thick.
- Accuracy ±0.0001" per inch, ±30 arc seconds.
- Furnished in 1° increments to 5°, and in 5° increments to 30°.
- For angle set-up in tooling, production and inspection.
- Hardened and precision ground.
- Lightly magnetized for better holding.
- In a fitted plastic case.



Item #3602-0111

\$72⁰⁰ set

17PC PRECISION ANGLE BLOCK SET

Features:

- Made from hardened steel.
- Used for grinding and milling operations.
- Set includes the following angles: 1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, and 45°, plus 2 riser blocks.
- In a fitted plastic case.



Item #EJ99-2117

\$152⁰⁰ set

UNIVERSAL ANGLE BLOCK SET

Features:

- Precision ground to ±10 seconds.
- Hardness HRC 45-50.
- All ground finished.
- No need for sine vises, sine plates, angle vises & angle charts or block gages.
- Vee block dimensions: 3" long, 1-3/16" wide, 1-3/16" high.
- Angle plate dimensions: 2-3/4" long, 1-3/16" wide, 5/64" high at the narrow end.



Item #3602-0224

\$160⁰⁰ set

Each set includes:

- V-blocks: 10°, 15°, & 30°.
- Angle plates: 1°, 2°, 3°, 4°, & 5°.
- In a fitted wooden case.

SOLID ANGLE PLATES SET

Features:

- Hardened & ground steel.
- Precision ground angles for setup in tooling, production and inspection.
- Four 0.311" holes for easy mounting.
- Accuracy: ±10 minutes.
- In a fitted plastic case.



Item	Dimension	Price
3610-9010	(30°, 60°, 90°) and (45°, 45°, 90°)	\$40.00/SET

PRECISION PARALLEL SET



EG02-0410



EG06-0428

Features:

- Made from high-quality alloy steel.
- Precision parallels are ideal for layout work, standards, and set-ups.
- Deliver operational excellence and performance efficiency to machine shop work.
- The holes are designed to make them lighter, easier to handle, and more adaptable for set-up.
- All pairs are precision ground and matched.
- HRC 52-58.
- Accuracy: $\pm 0.0003"$.
- Parallelism in height: $\pm 0.0002"$ to size.
- In a fitted plastic case.

Item	Description	Price
EG02-0409	3/16" & 1/2" thick, 4 pairs: 3/16" x 1" x 6" with 5/16" holes 3/16" x 1-1/4" x 6" with 3/8" holes 1/2" x 1-1/2" x 6" with 7/16" holes 1/2" x 1-3/4" x 6" with 1/2" holes	\$86.00/SET
EG02-0410	1/2" thick, 4 pairs: 1/2" x 1" x 6" with 5/16" holes 1/2" x 1-1/4" x 6" with 3/8" holes 1/2" x 1-1/2" x 6" with 7/16" holes 1/2" x 1-3/4" x 6" with 1/2" holes	\$99.00/SET
EG06-0428	1/2" thick, 8 pairs: 1/2" x 7/8" x 6" with 5/16" holes 1/2" x 1" x 6" with 5/16" holes 1/2" x 1-1/8" x 6" with 3/8" holes 1/2" x 1-1/4" x 6" with 3/8" holes 1/2" x 1-3/8" x 6" with 7/16" holes 1/2" x 1-1/2" x 6" with 7/16" holes 1/2" x 1-5/8" x 6" with 1/2" holes 1/2" x 1-3/4" x 6" with 1/2" holes	\$185.00/SET

9-PAIR PRECISION PARALLEL SET

Features:

- 1/4" thick matched pairs
- 6" length
- 3/4" to 1-3/4" x 8ths
- Hardened and ground, high-grade alloy steel
- Precision matched
- HRC 52-58
- Accuracy: $\pm 0.0003"$
- Parallelism in height: $\pm 0.0002"$ to size.
- In a fitted plastic case.

Item #EG10-1432
\$132⁰⁰ set



10-PAIR PRECISION PARALLEL SET

GREAT

Features:

- Our most in-demand parallel set, this set includes 10 matching pairs with ultra-accurate dimensions
- 1/8" thick matching pairs
- Made from high-quality alloy steel
- Hardened and ground
- 2 holes in each parallel
- HRC 52-58
- Accuracy: $\pm 0.0003"$
- Parallelism in height: $\pm 0.0002"$ to size in height
- In a fitted plastic case.

Set includes:

- 10 pairs 1/8" thick sizes:
1/8" x 1/2" with 13/64" hole
1/8" x 5/8" with 1/4" hole
1/8" x 3/4" with 5/16" hole
1/8" x 7/8" with 5/16" hole
1/8" x 1" with 5/16" hole
1/8" x 1-1/8" with 3/8" hole
1/8" x 1-1/4" with 3/8" hole
1/8" x 1-3/8" with 7/16" hole
1/8" x 1-1/2" with 1/2" hole
1/8" x 1-5/8" with 1/2" hole

Item	OAL	Price
EG10-1403	3"	\$60.00/SET
EG10-1404	4"	\$63.00/SET
EG10-1405	5"	\$73.00/SET
EG10-1400	6"	\$76.00/SET



EG10-1405



EG10-1403



EG10-1404



EG10-1400

9-PAIR WAVY PARALLEL SET

Features:

- 4-5/16" long pairs in the following heights: 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", & 1-1/2".
- Parallelism ± 0.0002 ".
- All parallels made from high-quality spring steel.
- Each parallel hardened and precision ground.
- Can hold fragile, delicate or thin workpieces.
- For use on precision clamping for drilling, milling, boring, grinding and assembly operations, etc.
- In a fitted wooden case.



Item #EG10-1440
\$70⁰⁰/set



TRANSFER PUNCH SET

Features:

- HRC 61-63 approximately 1-1/2" from the point.
- Heat-treated & tempered.
- Length: 4-7/8".
- Supplied with stand.
- Black oxide finish.
- For accurate transferring of drilled or tapped holes.
- Sturdy steel case.



0250-0028



0250-0033

Transfer punches are ideal for accurately marking hole positions when aligning two parts with matching through holes.



Item	Description	Of Piece	Price
0250-0028	Size: 3/32"-1/2" by 64ths plus 17/32"	28pcs	\$39.00/SET
0250-0033	Size: 1/2" - 1" by 64ths	33pcs	\$139.00/SET
0250-0025	Size: 1.0mm - 13.0mm by 0.5mm	25pcs	\$39.00/SET

9-PAIR PRECISION PARALLEL SET, METRIC

Set includes:

- 9 pairs 4mm thick sizes: 100 x 10 x 4mm, 100 x 14 x 4mm, 100 x 18 x 4mm, 100 x 22 x 4mm, 100 x 26 x 4mm, 100 x 30 x 4mm, 100 x 34 x 4mm, 100 x 38 x 4mm, 100 x 42 x 4mm

Features:

- 100mm length, 4mm thick
- Hardened HRC 50
- Accuracy: ± 0.005 mm
- Parallelism in height: ± 0.005 mm to size in height
- In a fitted plastic case.



Item #EG10-1009
\$77.00/SET

1/32" ULTRA-THIN 20-PAIR PARALLEL SET

Features:

- 6" length, 1/32" thick
- Hardened HRC 50
- Parallelism: ± 0.0001 "
- Height accuracy: ± 0.0001 "
- Range of sizes include: 1/2" thru 1-11/16" by 1/16" intervals
- In a fitted plastic case.



Item #EG01-6919
\$89.00/SET

ADJUSTABLE PARALLEL SET

Features:

- Height range: 3/8" to 1/2", 1/2" to 11/16", 11/16" to 15/16", 15/16" to 1-5/16", 1-5/16" to 1-3/4", and 1-3/4" to 2-1/4".
- Lengths range from 1-3/4" to 5" closed.
- Quickly adjustable and locked with screws for precise micrometer measurement.
- For layout, inspection, shop work & set-up, etc.



Item #3602-5001
\$108⁰⁰/set

PREMIUM MAGNETIC PARALLEL SET, 150MM X 2.5MM

Features:

- 150mm length x 2.5mm width 5pcs premium magnetic parallel set.
- Height: 25, 35, 40, 45, & 47mm.
- Height tolerance is ± 0.005 mm.
- Width tolerance is ± 0.01 mm.
- Hardness is 55-60 HRC.
- Reduces the clamping time by up to 10%.
- Precision ground as pairs.
- Excellent in high precision work for mounting parallel components in machine vises or jigs.
- No extra tools are needed to set up the parallels, the vise, and the workpieces.
- Significantly reduces the clamping time.
- Greatly improve the efficiency.
- CANCNC premium packaging.



Item #2818-0115
\$163.00/SET

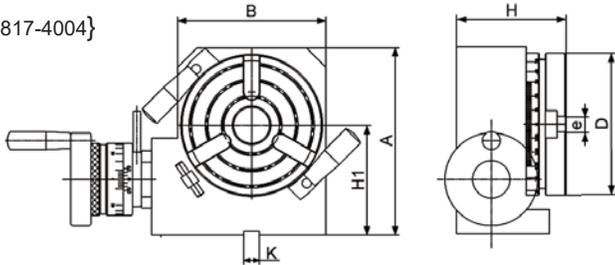
HORIZONTAL/VERTICAL PRECISION ROTARY TABLE

ISO9001

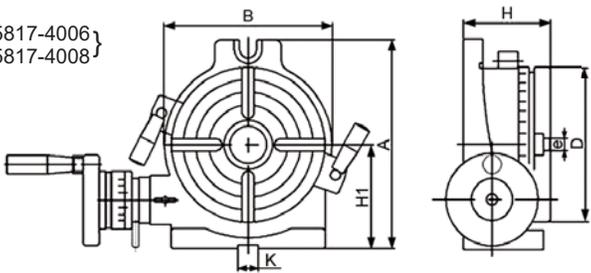
Features:

- The table is graduated a full 360 degrees.
- Deliver excellent performance, practical design and reasonable cost. Widely used for circular work, angle setting, boring, spotfacing and similar work.
- Gear ratio: 4" table is 72:1; 6" & 8" table is 90:1.
- Chrome plated dial.
- Hardened and precision ground.

{5817-4004}



{5817-4006
5817-4008}



5817-4004



5817-4008



5817-4006

Item	Table		Base Dimension			Width of T-Slot		Bolt Slot	Center Sleeve	Price
	D	H	H1	A	B	e	Type	K		
5817-4004	4"	3.42"	3.35"	5.71"	4.53"	0.47"	⊗	0.47"	MT2	\$433.00/PC
5817-4006	6"	3.35"	3.93"	7.87"	6.29"	0.47"	⊕	0.63"	MT2	\$516.00/PC
5817-4008	8"	3.81"	5.31"	10.43"	8.66"	0.55"	⊕	0.63"	MT3	\$703.00/PC

DIVIDING PLATE

ISO9001

Features:

- Dividing plates can carry out the indexing function from 2 to 100 rapidly and accurately using 2 index plates, a sector, and a crank handle.



5817-5008



5817-5006

Item	Description	Dividing Plate	Number of Holes		Price
5817-5006	For 4" & 6" Table	A	15, 16, 17, 18, 19, & 20		\$230.00/SET
		B	21, 23, 27, 29, 31, & 33		
		C	37, 39, 41, 43, 47, & 49		
5817-5008	For 8" Table	A	A1	26, 30, 34, 38, 41, 44, 47, 51, & 57	\$296.00/SET
			A2	28, 32, 37, 39, 43, 46, 49, 53, & 59	
		B	B1	61, 67, 71, 77, 81, 87, 91, & 97	
			B2	63, 69, 73, 79, 83, 89, 93, & 99	

ER32 PRECISION INDEXING AND GRINDING SPIN JIG, WITH WRENCH

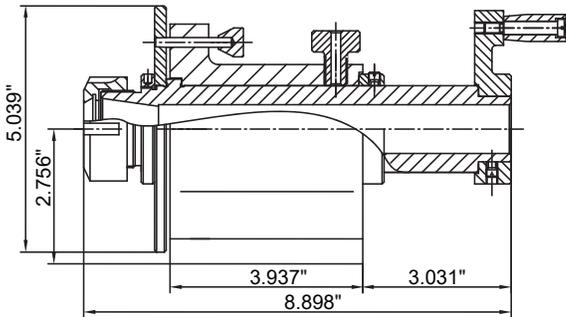
GREAT ISO9001

Features:

- Indexing and grinding fixture.
- Uses ER-32 collets (range 1/16"-13/16") for better gripping and accuracy.
- Extends the capabilities of drill presses, surface grinders, gear cutters and milling machines.
- Spindle hardened and ground with 0.0005" (T.I.R.) run-out.
- 10 vernier holes for 1° indexing.
- 2" spindle travel for flute grinding.
- 5" diameter index plate has a 36-hole circle and graduated by 0 to 35 for direct indexing in 10° steps and is marked in 5° increments.
- Spindle lock for tightening collet.
- Base footprint: 4.5x4" ground parallel to spindle.
- ER collets not included; can be purchased separately.



Item #0225-0206
\$186⁰⁰/_{pc}



5C SPIN INDEX

ISO9001

Features:

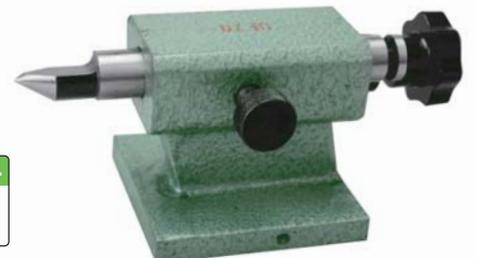
- Hardened and precision-ground spindle.
- 0.0004" TIR spindle accuracy.
- Precision-ground 36-position index plate.
- Direct indexing in ten steps, graduated in 5-degree increments.
- For use on all milling machines, surface grinders, and inspection equipment.
- Approximate weight 18lbs.



Item #0225-0204
\$135⁰⁰/_{pc}

MATCHING TAILSTOCK FOR THE 5C SPIN INDEX

ISO9001



Item #0240-0104
\$119⁰⁰/_{pc}

5C HORIZONTAL/VERTICAL COLLET INDEX

Features:

- Utilizes 5C collet.
- Patented single lever action activates the indexing mechanism.
- Precision ground index plate has 24 indexing locations in fifteen degree increments, any of which can be masked for greater versatility.
- Spindle accuracy 0.0004".
- Approximate weight: 35lbs.
- Spindle is 2-1/4"-8 TPI.

Specifications:

- Dividing spindle concentricity: 0.0004".
- Cylindrical center bore (per 1") concentricity: 0.0008".
- Lateral offset of center slot of divide spindle: 0.0008".
- Center slot to dividing spindle concentricity: 0.0008".
- Base to face squareness: 0.0008".



ISO9001

Item #0225-0205
\$746.00/PC

5C HORIZONTAL/VERTICAL COLLET HOLDER

Features:

- Height of centre (horizontal): 2.52".
- Height (horizontal): 3.74".
- Height (vertical): 4.13".
- Size of base (horizontal): 5" x 3.96".
- Size of base (vertical): 5" x 3.74".
- Universally adaptable to drill presses, milling machines, surface grinders, etc.
- The collet does not move up or down.
- Retains positive relation to base.
- Adjustable without disturbing set-up.
- Cam lever opens and closes easily so collets can be changed quickly.
- Utilizes a cam lock and positive release.



ISO9001

Item #0225-0202
\$145.00/PC

VISI-DRESS RADIUS DRESSER

Features:

- Center height: 2.56"
- Max. size grinding wheel: 8" diameter
- Max. convex radius: 1/2"
- Max. concave radius: 1"
- Tangential travel: 0.89"
- Angle / linear dressing range: 95° ~ 0-95°



ISO9001

Item #HE30-0003
\$1189⁰⁰pc

RADIUS AND ANGLE DRESSER

Features:

- Maximum diameter of grinding wheel: 12"
- Convex radii: 0-1-5/8"
- Concave radii: 5/8" ~ 1-5/8"
- Tangent travel to either side of center: 2"
- Center line of tool: 3.4"
- Overall length: 15.236"
- Weight: 30lbs.



ISO9001

Item #HE30-0005
\$818⁰⁰pc

PROFILE WHEEL DRESSER

Features:

- Convex radii: 0 to 1.500"
- Concave radii: 0.03" to 1.500"
- Dressing capacity up to 8" wheel dia
- Height to center of diamond: 6-1/2"
- Overall height: 7"
- Diamond is not included



ISO9001

Item #EG11-0400
\$1168⁰⁰pc

SINE DRESSER

Features:

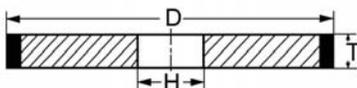
- Cross feed up to 50mm
- Center distance is 50mm within 0.01mm accuracy
- Dresses grinding wheel to any angle from 0 to 60 degree



ISO9001

Item #2310-7000
\$426⁰⁰pc

STRAIGHT STYLE DIAMOND WHEEL TYPE D1A1



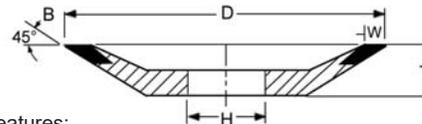
EC81-0925

Features:

- 100% concentration, 150 grit
- Applications include slot grinding, cutting tool flute grinding, die sharpening and O.D. tool grinding
- Used for grinding tungsten carbide, ceramics, glass, etc.

Item	Diamond Depth (D)	Wheel Thickness (T)	Hole Diameter (H)	Wheel Diameter	Price
EC81-0925	1/8"	1/4"	1-1/4"	6"	\$186.00/PC
EC81-0930	1/8"	1/4"	1-1/4"	7"	\$208.00/PC

DIAMOND DISH WHEEL TYPE D12V9



Features:

- 75% concentration
- 100 grit
- Resin bond
- Used for precision grinding of end mills, reamers, & broaches
- Use diamond on non-ferrous material

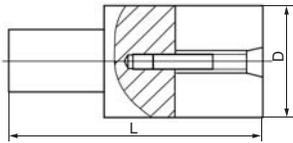
Item	Dia. (D)	Thickness (T)	Hole (H)	Depth (W)	Insert Length	Price
EC81-0866	6"	3/4"	1-1/4"	1/8"	1/4"	\$176.00/PC

HAND-E EXPANDING ARBORS SET

ISO9001

Features:

- Chuck arbors in machine to be used.
- Tighten the expanding screw so that the arbor expands 0.005".
- Machine arbor to the length and size required.
- Loosen expanding screw.
- Position part on arbor and tighten expanding screw.
- Size: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", and 1-1/4" arbors with 4 alloy wrenches in a handy wooden stand.



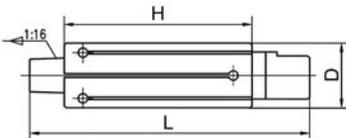
Item	D	L	Expanding Range	Size of Wrench	Price
6931-0900	1/4"	3"	0.005"	5/64"	\$118.00/SET
	3/8"	3"	0.005"	3/32"	
	1/2"	3"	0.005"	3/32"	
	5/8"	3"	0.005"	9/64"	
	3/4"	4"	0.005"	9/64"	
	7/8"	4"	0.005"	3/16"	
	1"	4"	0.005"	3/16"	
1-1/4"	4"	0.005"	3/16"		

8PC PRECISION EXPANDING MANDREL SET

ISO9001

Features:

- Made of high grade tool steel.
- Precision ground and heat treated for maximum concentricity and holding power.
- Center holes are ground and lapped.
- The automatic expansion feature can be utilized on any bores (standard or non-standard) within the range of the mandrel.
- Sizes up to 1" capacity are furnished with 1 sleeve; Larger sizes are furnished with 2 sleeves (1 large and 1 small).
- Arbors are tapered, sleeves are flexible and the size is obtained by moving sleeve along the arbor.
- A range from 1/2" thru 2" by 1/1000" can be covered by a total of 8 mandrels.
- In a fitted wooden case.



Item	Size Range	No. of Mandrels	Price
6978-0918	1/2" ~ 2"	8	\$648.00/SET

8pcs/set: 1/2" thru 2"

Size Range (D)	Length of Arbor (L)	Length of Sleeve (H)	Sleeves Furnished
1/2" ~ 9/16"	5"	2-1/2"	1
9/16" ~ 21/32"	6"	2-3/4"	1
21/32" ~ 3/4"	7"	2-3/4"	1
3/4" ~ 7/8"	7"	3-1/4"	1
7/8" ~ 1"	7"	3-1/4"	1
1" ~ 1-1/4"	9"	4"	2
1-1/4" ~ 1-1/2"	9"	4"	2
1-1/2" ~ 2"	11-1/2"	5"	2

58PC DELUXE STEEL CLAMPING KIT

GREAT

ISO9001

Features:

- For clamping workpieces to machine table
- Material: S45C, black oxide finished
- Heat treatment: hardness of each part is HRC32±5
- Quality kit for a Bridgeport
- In a fitted plastic case

Set includes:

- 24 studs: 4 pieces of each length 3", 4", 5", 6", 7" & 8"
- 4 coupling nuts
- 6 flange nuts
- 6 T-slot nuts
- 6 serrated end clamps
- 12 step blocks



4230-2628



Item	Table Slot	Stud Size	Price
4230-2624	7/16"	3/8"-16	\$138.00/SET
4230-2625	1/2"	3/8"-16	\$138.00/SET
4230-2627	11/16"	1/2"-13	\$156.00/SET
4230-2628	3/4"	5/8"-11	\$234.00/SET

58PC STEEL CLAMPING KIT

GREAT

Features:

- Quality kit for a Bridgeport

Set includes:

- 24 studs: 4 pieces of each length 3", 4", 5", 6", 7" & 8"
- 4 coupling nuts
- 6 flange nuts
- 6 T-slot nuts
- 6 serrated end clamps
- 12 step blocks
- Wall Holder



Item	Table Slot	Stud Size	Block width	Price
4230-2626	5/8"	1/2"-13	1"	\$129.00/SET

1/2"-13 T-SLOT NUT

Features:

- Heat-treated steel with black oxide finish.
- An imperfect thread is left at the base of the T-nut to prevent the stud passing through the T-nut and damaging the table slot.



0532-4818

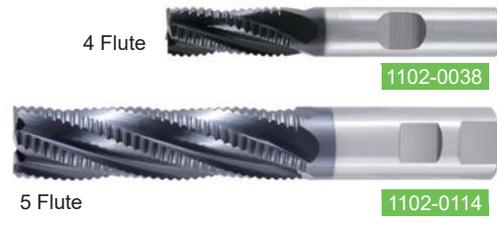
Item	T-Slots Nut	Table Slot T	Slot Height	Overall Height	Price
0532-4818	1/2"-13	5/8"	11/32"	5/8"	\$3.60/PC
0532-4819	1/2"-13	11/16"	7/16"	3/4"	\$3.90/PC

TIALN COATED M42-8% COBALT ROUGHING END MILL

GREAT ISO9001

Features:

- TiAlN Coated
- Center cutting
- M42-8% premium cobalt
- CNC qualified



Dia	Shank Dia	Flute Length	OAL	Flute	Item # Standard Tooth	Price	Item # Fine Tooth	Price
1/4"	3/8"	3/4"	2-1/2"	4	1102-0014	\$26.60/PC	1104-0014	\$26.60/PC
5/16"	3/8"	3/4"	2-1/2"	4	1102-0516	\$26.60/PC	1104-0516	\$26.60/PC
3/8"	3/8"	3/4"	2-1/2"	4	1102-0038	\$26.60/PC	1104-0038	\$26.60/PC
1/2"	1/2"	1-1/4"	3-1/4"	4	1102-0012	\$36.60/PC	1104-0012	\$36.60/PC
1/2"	1/2"	2"	4"	4	1102-0120	\$43.00/PC	1104-0120	\$43.00/PC
5/8"	5/8"	1-5/8"	3-3/4"	4	1102-0058	\$55.00/PC	1104-0058	\$55.00/PC
3/4"	3/4"	1-5/8"	3-3/4"	4	1102-0034	\$68.60/PC	1104-0034	\$68.60/PC
1"	1"	2"	4-1/2"	5	1102-0001	\$95.00/PC	1104-0001	\$99.00/PC
1"	1"	3"	5-1/2"	5	1102-0031	\$113.00/PC	1104-0031	\$123.00/PC
1"	1"	4"	6-1/2"	5	1102-0114	\$150.00/PC		

M42(H.S.S.+8% COBALT) FINISHING CNC END MILL, 4 FLUTE, TIALN COATED

Features:

- Center cutting.
- M42-8% premium cobalt.
- CNC qualified.



Item	Dia	Shank Dia	Flute Length	OAL	Flute	Price
6800-4001	1/8"	3/8"	3/8"	2-5/16"	4	\$26.60/PC
6800-4021	1/4"	3/8"	5/8"	2-7/16"	4	\$26.60/PC
6800-4041	3/8"	3/8"	3/4"	2-1/2"	4	\$29.00/PC
6800-4051	1/2"	1/2"	1-1/4"	3-1/4"	4	\$38.00/PC
6800-4061	5/8"	5/8"	1-5/8"	3-3/4"	4	\$58.00/PC
6800-4081	3/4"	3/4"	1-5/8"	3-7/8"	4	\$69.00/PC
6800-4101	7/8"	7/8"	1-7/8"	4-1/8"	4	\$98.00/PC
6800-4121	1"	1"	2"	4-1/2"	4	\$109.00/PC

M42-8% PREMIUM COBALT END MILL, 4 FLUTE

CO-12



Item #	Dia	Shank Dia	Flute Length	OAL	Flute	Price
CO-18	1/8"	3/8"	3/8"	2-5/16"	4	\$17.80/PC
CO-316	3/16"	3/8"	1/2"	2-3/8"	4	\$17.80/PC
CO-14	1/4"	3/8"	5/8"	2-7/16"	4	\$20.00/PC
CO-516	5/16"	3/8"	3/4"	2-1/2"	4	\$20.00/PC
CO-38	3/8"	3/8"	3/4"	2-1/2"	4	\$21.00/PC
CO-716	7/16"	1/2"	1"	2-3/4"	4	\$24.00/PC
CO-12	1/2"	1/2"	1-1/4"	3-1/4"	4	\$31.00/PC
CO-916	9/16"	1/2"	1-3/8"	3-3/8"	4	\$39.00/PC
CO-58	5/8"	5/8"	1-5/8"	3-3/4"	4	\$42.00/PC
CO-1116	11/16"	5/8"	1-5/8"	3-3/4"	4	\$44.00/PC
CO-34	3/4"	3/4"	1-5/8"	3-7/8"	4	\$62.00/PC
CO-1316	13/16"	3/4"	1-7/8"	4-1/8"	4	\$72.00/PC
CO-78	7/8"	3/4"	1-7/8"	4-1/8"	4	\$80.00/PC
CO-1516	15/16"	3/4"	1-7/8"	4-1/8"	4	\$84.00/PC
CO-134	1"	3/4"	1-7/8"	4-1/8"	4	\$88.00/PC
CO-1	1"	1"	2"	4-1/2"	4	\$91.00/PC

MICROGRAIN SOLID CARBIDE END MILL

Features:

- 4-flute and 2-flute
- Single end
- Center cutting



Dia	Shank Dia	Flute Length	OAL	Item # 4 Flute	Price	Item # 2 Flute	Price
1/16"	1/8"	3/16"	1-1/2"	1006-0116	\$15.20/PC	1008-0116	\$15.20/PC
1/8"	1/8"	1/2"	1-1/2"	1006-0018	\$16.00/PC	1008-0018	\$16.00/PC
3/16"	3/16"	5/8"	2"	1006-0316	\$21.00/PC	1008-0316	\$21.00/PC
1/4"	1/4"	3/4"	1-1/2"	1006-0014	\$28.00/PC	1008-0014	\$28.00/PC
5/16"	5/16"	3/4"	2-1/2"	1006-0516	\$43.00/PC	1008-0516	\$43.00/PC
3/8"	3/8"	1"	2-1/2"	1006-0038	\$62.00/PC	1008-0038	\$62.00/PC
1/2"	1/2"	1"	3"	1006-0012	\$89.00/PC	1008-0012	\$89.00/PC
9/16"	9/16"	1-1/8"	3-1/2"	1006-0916	\$140.00/PC		

M42-8% COBALT ROUGHING END MILL

Features:

- Center cutting
- M42-8% premium cobalt
- CNC qualified



Item # Standard Tooth	Dia	Shank Dia	Flute Length	Overall Length	Flute	Price
1002-0014	1/4"	3/8"	3/4"	2-1/2"	4	\$21.00/PC
1002-0120	1/2"	1/2"	2"	4"	4	\$34.00/PC
1002-0058	5/8"	5/8"	1-5/8"	3-3/4"	4	\$49.00/PC
1002-0580	5/8"	5/8"	2-1/2"	4-5/8"	4	\$56.00/PC
1002-0034	3/4"	3/4"	1-5/8"	3-3/4"	4	\$61.00/PC
1002-0340	3/4"	3/4"	3"	5-1/4"	4	\$95.00/PC
1002-0078	7/8"	3/4"	1-5/8"	4-1/8"	4	\$95.00/PC
1002-1516	15/16"	3/4"	1-7/8"	4-1/8"	4	\$95.00/PC
1002-0001	1"	1"	2"	4-1/2"	5	\$95.00/PC
1002-0113	1"	1"	3"	5-1/2"	5	\$113.00/PC

H.S.S. END MILL, TIN COATED, 4 FLUTE

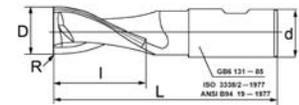
Features:

- Single end
- Regular length
- Right-hand cut
- Center cutting



Item #	Dia	Shank Diameter	Flute Length	Overall Length	Flute	Price
1400-3201	1/8"	3/8"	3/8"	2-5/16"	4	\$9.90/PC
1400-3203	3/16"	3/8"	1/2"	2-3/8"	4	\$11.00/PC
1400-3205	1/4"	3/8"	5/8"	2-7/16"	4	\$11.00/PC
1400-3207	5/16"	3/8"	3/4"	2-1/2"	4	\$11.00/PC
1400-3209	3/8"	3/8"	3/4"	2-1/2"	4	\$14.00/PC
1400-3211	1/2"	1/2"	1-1/4"	3-1/4"	4	\$17.00/PC
1400-3213	5/8"	5/8"	1-5/8"	3-3/4"	4	\$18.00/PC
1400-3214	9/16"	1/2"	1-3/8"	3-3/8"	4	\$19.00/PC
1400-3215	11/16"	5/8"	1-5/8"	3-3/4"	4	\$33.00/PC
1400-3217	3/4"	3/4"	1-5/8"	3-7/8"	4	\$33.00/PC
1400-3218	7/8"	3/4"	1-7/8"	4-1/8"	4	\$37.00/PC
1400-3220	1"	3/4"	1-7/8"	4-1/8"	4	\$40.00/PC
1400-3221	1"	1"	2"	4-1/2"	4	\$48.00/PC

2 FLUTE CARBIDE TIPPED END MILL FOR ALUMINUM



Item #	Mill Dia (D)	Shank Dia (d)	LOC (l)	OAL (L)	Corner Radius (R)	Price
0193-6327	1/2"	1/2"	1"	3"	1/64"	\$55.00/PC
0193-6400	5/8"	5/8"	1-1/4"	3-5/8"	1/64"	\$60.00/PC
0193-6483	3/4"	3/4"	1-1/2"	4-1/8"	1/64"	\$70.00/PC
0193-6640	1"	1"	1-3/4"	4-3/4"	1/64"	\$89.00/PC

Recommended Cutting Specifications

Cutting Speed m/m	Feed per Tooth	Materials to be Machined
300-900	0.05-0.015	Aluminum, Magnesium Alloy & Other Light Alloys

6PC MULTI FLUTE BRIDGEPORT H.S.S. END MILL SET

Features:

- Size:
 - 3/4" x 3/4" shank with 4 flute
 - 7/8" x 3/4" shank with 4 flute
 - 1" x 3/4" shank with 4 flute
 - 1-1/8" x 3/4" shank with 6 flute
 - 1-1/4" x 3/4" shank with 6 flute
 - 1-1/2" x 3/4" shank with 6 flute
- In a fitted wood stand



Item #1822-0206
\$294⁰⁰
set



20PC TIN COATED H.S.S. END MILL SET

Inch set:

one of each size
in both 2 & 4 flute

Item #1810-0100
\$208.00/SET

- With 3/8" shank:
 - 3/16", 1/4", 5/16", 3/8", & 7/16"
- With 1/2" shank: 1/2", & 9/16"
- With 5/8" shank: 5/8", & 11/16"
- With 3/4" shank: 3/4"



Metric set:

- Metric size: 3, 4, 5, 6, 8, 10, 12, 14, 18 & 20mm, 2F+4F

Item #1810-0104
\$208.00/SET

1810-0100

END MILL GRINDING FIXTURE

ISO9001

Features:

- Use of a 5C collet assures concentricity.
- Holding 1/16" to 1-1/8" shank end mills.
- Grinds 2-3-4-6-8 and 12-flute end mill and shell mill face only.
- Shell mills can easily be held with straight shank arbor.

Item #2330-0050
\$154.00/SET



H.S.S. CORNER ROUNDING END MILL

Features:

- Right-hand cut.
- Intended for milling rounded corners.
- Formed radius cutter.
- Form-relieved type; can be sharpened repeatedly without changing the form.
- Suitable for a wide range of ferrous and nonferrous metals.



1011-5834

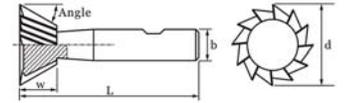
Item	Radius	Shank Dia.	Cutter Dia.	OAL	Price
1011-0116	1/16"	3/8"	7/16"	2-1/2"	\$17.00/PC
1011-0018	1/8"	1/2"	5/8"	3"	\$18.00/PC
1011-0532	5/32"	1/2"	3/4"	3"	\$19.00/PC
1011-0312	3/16"	1/2"	7/8"	3"	\$25.00/PC
1011-0334	3/16"	3/4"	7/8"	3-1/8"	\$25.00/PC
1011-1412	1/4"	1/2"	1"	3-1/8"	\$29.00/PC
1011-0512	5/16"	1/2"	1-1/8"	3-1/4"	\$33.00/PC
1011-3812	5/16"	7/8"	1-1/8"	3-1/2"	\$33.00/PC
1011-3878	3/8"	1/2"	1-1/4"	3-1/2"	\$42.00/PC
1011-0578	3/8"	7/8"	1-1/4"	3-3/4"	\$50.00/PC
1011-1201	1/2"	1"	1-1/2"	4-1/8"	\$63.00/PC
1011-1234	1/2"	3/4"	1-1/2"	3-7/8"	\$70.00/PC
1011-5834	5/8"	3/4"	1-3/4"	4"	\$101.00/PC
1011-3434	3/4"	3/4"	2-1/4"	4-1/8"	\$123.00/PC

4PC H.S.S. DOVETAIL ANGULAR CUTTER SET

Features:

- Right-hand, 45° or 60°.
- Weldon shank.
- For cutting dovetails and angles in materials.
- Designed to take the place of arbor-type and threaded-hole-type cutters.
- Can be used in manual and CNC machines.
- Includes: 3/8", 1/2", 3/4", & 1-3/8".
- In a fitted aluminum case.

4400-6245



Item	Size (d)	Cutter Width (w)	Shank (b)	OAL (L)	Angle	Price
4400-6245	3/8"	1/8"	3/8"	2-1/8"	45°	\$161.00/SET
	1/2"	5/32"	3/8"	2-1/8"	45°	
	3/4"	1/4"	3/8"	2-1/8"	45°	
	1-3/8"	7/16"	5/8"	2-7/8"	45°	
4400-6206	3/8"	3/16"	3/8"	2-1/8"	60°	\$161.00/SET
	1/2"	1/4"	3/8"	2-1/8"	60°	
	3/4"	5/16"	3/8"	2-1/8"	60°	
	1-3/8"	9/16"	5/8"	2-7/8"	60°	

4PC H.S.S. CORNER ROUNDING END MILL SET

Set includes:

- 1/2", 9/16", 5/8", & 3/4" with 3/4" shanks.
- In a fitted aluminum case.

Item #1011-0004
\$373⁰⁰
set



8PC H.S.S. CORNER ROUNDING END MILL SET

Set includes:

- 1/16", 3/32" with 3/8" shank
- 1/8", 5/32", 3/16", 1/4", 5/16", & 3/8" with 1/2" shank.
- In a fitted aluminum case.

GREAT **ISO9001**

Item #1011-0008
\$195⁰⁰
set



10PC H.S.S. WOODRUFF KEY CUTTER SET

Features:

- For cutting standard and woodruff keyways in steel and other ferrous metals.
- 1/2" straight shank.
- Straight tooth.
- In a fitted aluminum case.

GREAT **ISO9001**

Item #3800-1101
\$230⁰⁰
set



American Standard	Nominal Diameter	Face Width	Overall Length
403	3/8"	1/8"	2-1/8"
204	1/2"	1/16"	2-1/16"
404	1/2"	1/8"	2-1/8"
305	5/8"	3/32"	2-3/32"
505	5/8"	5/32"	2-5/32"
406	3/4"	1/8"	2-1/8"
606	3/4"	3/16"	2-3/16"
806	3/4"	1/4"	2-1/4"
608	1"	3/16"	2-3/16"
808	1"	1/4"	2-1/4"

H.S.S. ANNULAR CUTTER, CBN GROUND, WITH 3/4" OR 1-1/4" WELDON SHANK, ANSI STANDARD CUTTING DEPTH: 1", 2", 3" & 4"

GREAT

ISO9001

Cutters with 7/16" to 2-11/32" diameter are with 3/4" Weldon shanks, dia. of hole of pilot pin = 1/4"
Cutters with 2-3/8" to 4" diameter are with 1-1/4" Weldon shanks, dia. of hole of pilot pin = 5/16"



2080-2012



2083-2018



2081-2012



2084-2018

Dia. of Cut	Cutting Depth							
	1"	Price	2"	Price	3"	Price	4"	Price
7/16"	2080-2012	\$18.00/PC	2081-2012	\$25.00/PC				
1/2"	2080-2013	\$19.00/PC	2081-2013	\$29.00/PC				
9/16"	2080-2014	\$21.00/PC	2081-2014	\$32.00/PC				
5/8"	2080-2015	\$21.00/PC	2081-2015	\$35.00/PC				
11/16"	2080-2016	\$23.00/PC	2081-2016	\$36.00/PC				
3/4"	2080-2017	\$26.00/PC	2081-2017	\$39.00/PC				
13/16"	2080-2018	\$27.00/PC	2081-2018	\$43.00/PC	2083-2018	\$57.00/PC	2084-2018	\$109.00/PC
7/8"	2080-2019	\$29.00/PC	2081-2019	\$46.00/PC	2083-2019	\$65.00/PC	2084-2019	\$120.00/PC
15/16"	2080-2020	\$32.00/PC	2081-2020	\$50.00/PC	2083-2020	\$68.00/PC	2084-2020	\$127.00/PC
1"	2080-2021	\$33.00/PC	2081-2021	\$52.00/PC	2083-2021	\$76.00/PC	2084-2021	\$142.00/PC
1-1/16"	2080-2022	\$36.00/PC	2081-2022	\$55.00/PC	2083-2022	\$80.00/PC	2084-2022	\$154.00/PC
1-1/8"	2080-2023	\$37.00/PC	2081-2023	\$64.00/PC	2083-2023	\$87.00/PC	2084-2023	\$171.00/PC
1-3/16"	2080-2024	\$39.00/PC	2081-2024	\$66.00/PC	2083-2024	\$98.00/PC	2084-2024	\$186.00/PC
1-1/4"	2080-2025	\$42.00/PC	2081-2025	\$70.00/PC	2083-2025	\$105.00/PC	2084-2025	\$201.00/PC
1-5/16"	2080-2026	\$45.00/PC	2081-2026	\$76.00/PC	2083-2026	\$113.00/PC	2084-2026	\$218.00/PC
1-3/8"	2080-2027	\$47.00/PC	2081-2027	\$80.00/PC	2083-2027	\$120.00/PC	2084-2027	\$233.00/PC
1-7/16"	2080-2028	\$52.00/PC	2081-2028	\$83.00/PC	2083-2028	\$127.00/PC	2084-2028	\$249.00/PC
1-1/2"	2080-2029	\$54.00/PC	2081-2029	\$86.00/PC	2083-2029	\$134.00/PC	2084-2029	\$262.00/PC
1-9/16"	2080-2030	\$57.00/PC	2081-2030	\$88.00/PC	2083-2030	\$139.00/PC	2084-2030	\$274.00/PC
1-5/8"	2080-2031	\$64.00/PC	2081-2031	\$98.00/PC	2083-2031	\$142.00/PC	2084-2031	\$286.00/PC
1-11/16"	2080-2032	\$66.00/PC	2081-2032	\$105.00/PC	2083-2032	\$154.00/PC	2084-2032	\$295.00/PC
1-3/4"	2080-2033	\$75.00/PC	2081-2033	\$112.00/PC	2083-2033	\$165.00/PC	2084-2033	\$325.00/PC
1-13/16"	2080-2034	\$76.00/PC	2081-2034	\$116.00/PC	2083-2034	\$176.00/PC	2084-2034	\$341.00/PC
1-7/8"	2080-2035	\$79.00/PC	2081-2035	\$123.00/PC	2083-2035	\$183.00/PC	2084-2035	\$351.00/PC
1-15/16"	2080-2036	\$83.00/PC	2081-2036	\$128.00/PC	2083-2036	\$189.00/PC	2084-2036	\$359.00/PC
2"	2080-2037	\$88.00/PC	2081-2037	\$136.00/PC	2083-2037	\$196.00/PC	2084-2037	\$374.00/PC
2-1/16"	2080-2038	\$92.00/PC	2081-2038	\$145.00/PC				
2-1/8"	2080-2039	\$95.00/PC	2081-2039	\$149.00/PC				
2-3/16"	2080-2040	\$109.00/PC	2081-2040	\$163.00/PC				
2-1/4"	2080-2041	\$132.00/PC	2081-2041	\$189.00/PC				
2-5/16"	2080-2042	\$145.00/PC	2081-2042	\$201.00/PC				
2-3/8"	2080-2043	\$161.00/PC	2081-2043	\$219.00/PC				
2-7/16"	2080-2044	\$167.00/PC	2081-2044	\$225.00/PC				
2-1/2"	2080-2045	\$176.00/PC	2081-2045	\$238.00/PC				
2-9/16"	2080-2046	\$188.00/PC	2081-2046	\$251.00/PC				
2-5/8"	2080-2047	\$193.00/PC	2081-2047	\$258.00/PC				
2-11/16"	2080-2048	\$198.00/PC	2081-2048	\$266.00/PC				
2-3/4"	2080-2049	\$208.00/PC	2081-2049	\$284.00/PC				
2-13/16"	2080-2050	\$219.00/PC	2081-2050	\$296.00/PC				
2-7/8"	2080-2051	\$230.00/PC	2081-2051	\$311.00/PC				
2-15/16"	2080-2052	\$237.00/PC	2081-2052	\$319.00/PC				
3"	2080-2053	\$243.00/PC	2081-2053	\$328.00/PC				
3-1/16"	2080-2054	\$255.00/PC	2081-2054	\$347.00/PC				
3-1/8"	2080-2055	\$267.00/PC	2081-2055	\$361.00/PC				
3-1/4"	2080-2057	\$288.00/PC	2081-2057	\$406.00/PC				
3-3/8"	2080-2059	\$307.00/PC	2081-2059	\$439.00/PC				
3-1/2"	2080-2061	\$350.00/PC	2081-2061	\$482.00/PC				

**M35(H.S.S. + 5%COBALT)
ANNULAR CUTTER WITH
1-1/4" WELDON SHANK,
CBN GROUND**

GREAT

ISO9001

Cutters with 2-1/2" diameter is with 1-1/4" Weldon shanks, dia. of hole of pilot pin: 5/16"



3580-2045

Features:
HSS-Co annular cutters are made of Molybdenum-Chromium-Vanadium-Tungsten alloy high-speed steel with an additional 5% cobalt (M35) for inch sizes. The HSS-Co annular cutter is specifically designed to remain cool when cutting holes. All flutes are fully ground, resulting in super fast feed speed and finishing holes on hard materials, improving the chip break and cutting performance. The M35 HSS-Co annular cutter is widely used in the metalworking industry for its superior red hardness comparing with conventional high-speed steel. It leads to a shorter cycle time in productions due to its higher cutting speed.

Item	Dia. of Cut	Cutting Depth	Price
3580-2045	2-1/2"	1"	\$264.00/PC
3581-2045	2-1/2"	2"	\$325.00/PC

**H.S.S. ANNULAR CUTTER WITH
NITTO/WELDON/ONE-TOUCH
SHANK, CBN GROUND,
CUTTING DEPTH 1"**

ISO9001

Cutters with 9/16" to 13/16" diameter are with 3/4" Nitto/Weldon/One-touch shanks, dia. of hole of pilot pin: 1/4"



1190-2014



1190-2017



1190-2021

Item	Dia. of Cut	Cutting Depth	Price
1190-2014	9/16"	1"	\$24.00/PC
1190-2017	11/16"	1"	\$28.00/PC
1190-2021	13/16"	1"	\$32.00/PC

**TUNGSTEN CARBIDE TIPPED
ANNULAR CUTTER WITH
ONE-TOUCH SHANK CBN
GROUND, ANSI STANDARD,
CUTTING DEPTH: 1" OR 2"**

ISO9002

Cutters with 11/16" diameters are with 3/4" one-touch shanks, dia. of hole of pilot pin: 1/4"
Cutters with 13/16" to 1-1/16" diameter are with 3/4" one-touch shanks, dia. of hole of pilot pin: 5/16"



3080-2018

Item	Dia. of Cut	Cutting Depth	Price
3080-2016	11/16"	1"	\$58.00/PC
3080-2018	13/16"	1"	\$58.00/PC
3080-2019	7/8"	1"	\$62.00/PC
3080-2020	15/16"	1"	\$66.00/PC
3080-2021	1"	1"	\$72.00/PC
3080-2022	1-1/16"	1"	\$77.00/PC
3081-2016	11/16"	2"	\$83.00/PC
3081-2018	13/16"	2"	\$87.00/PC
3081-2019	7/8"	2"	\$95.00/PC
3081-2020	15/16"	2"	\$98.00/PC
3081-2021	1"	2"	\$105.00/PC
3081-2022	1-1/16"	2"	\$109.00/PC

H.S.S. FULLY GROUND DRILLS & SETS WITH 3/4" WELDON SHANKS

GREAT **ISO9001**

- Features:
- Same connection as the annular cutters.
 - This system makes dismantling of the cutter spindle unnecessary.
 - Suitable for the most common processes of metal and steel.
 - Machined from one solid blank. (no weak spots caused by inferior material or welds)

6pcs/set - 1" cut with 3/4" Weldon shank

Item #0519-2501
\$109.00/SET

- Contains:
- 1pc H.S.S. Twist Drill 1/4" x 1" Depth (0519-1014)
 - 1pc H.S.S. Twist Drill 5/16" x 1" Depth (0519-1516)
 - 1pc H.S.S. Twist Drill 3/8" x 1" Depth (0519-1038)
 - 1pc H.S.S. Twist Drill 7/16" x 1" Depth (0519-1716)
 - 1pc H.S.S. Twist Drill 1/2" x 1" Depth (0519-1012)
 - 1pc H.S.S. Twist Drill 9/16" x 1" Depth (0519-1916)
- In a fitted plastic case

0519-2501



6pcs/set - 2" cut with 3/4" Weldon shank

Item #0519-5002
\$149.00/SET

- Contains:
- 1pc H.S.S. Twist Drill 1/4" x 2" Depth (0519-2014)
 - 1pc H.S.S. Twist Drill 5/16" x 2" Depth (0519-2516)
 - 1pc H.S.S. Twist Drill 3/8" x 2" Depth (0519-2038)
 - 1pc H.S.S. Twist Drill 7/16" x 2" Depth (0519-2716)
 - 1pc H.S.S. Twist Drill 1/2" x 2" Depth (0519-2012)
 - 1pc H.S.S. Twist Drill 9/16" x 2" Depth (0519-2916)
- In a fitted plastic case

0519-5002



0519-1014 0519-1038 0519-2038 0519-2012

Item	Size		Price
	Dia. of Drill	Cutting Depth	
0519-1014	1/4"	1"	\$18.00/PC
0519-1516	5/16"	1"	\$18.00/PC
0519-1038	3/8"	1"	\$18.00/PC
0519-1716	7/16"	1"	\$20.00/PC
0519-1012	1/2"	1"	\$20.00/PC
0519-1916	9/16"	1"	\$20.00/PC
0519-2014	1/4"	2"	\$23.00/PC
0519-2516	5/16"	2"	\$24.00/PC
0519-2038	3/8"	2"	\$25.00/PC
0519-2716	7/16"	2"	\$25.00/PC
0519-2012	1/2"	2"	\$25.00/PC
0519-2916	9/16"	2"	\$31.00/PC

8PC H.S.S. ANNULAR CUTTERS SET

ISO9001

8pcs/set - 1" cut with 3/4" Weldon shank

GREAT

Contains:

- 1pc H.S.S. Annular Cutter 7/16" x 1" Depth (2080-2012)
- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 1pc H.S.S. Annular Cutter 15/16" x 1" Depth (2080-2020)
- 1pc H.S.S. Annular Cutter 1-1/16" x 1" Depth (2080-2022)
- 2pcs Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted plastic case

Item #HSS1-0000
\$161⁰⁰/set



8pcs/set - 2" cut with 3/4" Weldon shank

Contains:

- 1pc H.S.S. Annular Cutter 7/16" x 2" Depth (2081-2012)
- 1pc H.S.S. Annular Cutter 9/16" x 2" Depth (2081-2014)
- 1pc H.S.S. Annular Cutter 11/16" x 2" Depth (2081-2016)
- 1pc H.S.S. Annular Cutter 13/16" x 2" Depth (2081-2018)
- 1pc H.S.S. Annular Cutter 15/16" x 2" Depth (2081-2020)
- 1pc H.S.S. Annular Cutter 1-1/16" x 2" Depth (2081-2022)
- 2pcs Pilot Pin Dia. 1/4" x 4" OAL (0600-0090)

In a fitted plastic case

Item #HSS2-0000
\$243.00/SET



8pcs/set - 1" cut with 3/4" Weldon shank

Contains:

- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 1pc H.S.S. Annular Cutter 5/8" x 1" Depth (2080-2015)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 1pc H.S.S. Annular Cutter 15/16" x 1" Depth (2080-2020)
- 1pc H.S.S. Annular Cutter 1-1/16" x 1" Depth (2080-2022)
- 2pcs Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted plastic case

Item #HSS3-0000
\$169.00/SET



8pcs/set - 1" cut with 3/4" Weldon shank

Contains:

- 2pcs H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 2pcs H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 2pcs H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 2pcs Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted plastic case

Item #0519-0001
\$156.00/SET



8pcs/set - 1" & 2" cut with 3/4" Weldon shank

Contains:

- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 1pc H.S.S. Annular Cutter 9/16" x 2" Depth (2081-2014)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 1pc H.S.S. Annular Cutter 11/16" x 2" Depth (2081-2016)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 1pc H.S.S. Annular Cutter 13/16" x 2" Depth (2081-2018)
- 1pc Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)
- 1pc Pilot Pin Dia. 1/4" x 4" OAL (0600-0090)

In a fitted plastic case

Item #0519-0002
\$198.00/SET



8pcs/set - 30mm cut with 19.05mm Weldon shank

Contains:

- 2pcs H.S.S. Annular Cutter, Metric, 14mm x 30mm Depth
- 2pcs H.S.S. Annular Cutter, Metric, 18mm x 30mm Depth
- 2pcs H.S.S. Annular Cutter, Metric, 22mm x 30mm Depth
- 2pcs Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted plastic case

Item #0519-0030
\$152.00/SET



8pcs/set - 55mm cut with 19.05mm Weldon shank

Contains:

- 2pcs H.S.S. Annular Cutter, Metric, 14mm x 55mm Depth
- 2pcs H.S.S. Annular Cutter, Metric, 18mm x 55mm Depth
- 2pcs H.S.S. Annular Cutter, Metric, 22mm x 55mm Depth
- 2pcs Pilot Pin Dia. 1/4" x 4" OAL (0600-0090)

In a fitted plastic case

Item #0519-0055
\$241.00/SET



H.S.S. ANNULAR CUTTER SET

ISO9001

13pcs/set - 1" cut with 3/4" Weldon shank

GREAT

Contains:

- 1pc H.S.S. Annular Cutter 7/16" x 1" Depth (2080-2012)
- 1pc H.S.S. Annular Cutter 1/2" x 1" Depth (2080-2013)
- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 1pc H.S.S. Annular Cutter 5/8" x 1" Depth (2080-2015)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 1pc H.S.S. Annular Cutter 3/4" x 1" Depth (2080-2017)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 1pc H.S.S. Annular Cutter 7/8" x 1" Depth (2080-2019)
- 1pc H.S.S. Annular Cutter 15/16" x 1" Depth (2080-2020)
- 1pc H.S.S. Annular Cutter 1" x 1" Depth (2080-2021)
- 1pc H.S.S. Annular Cutter 1-1/16" x 1" Depth (2080-2022)
- 2 pcs Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted plastic case



Item #N10
\$284⁰⁰set

13pcs/set - 2" cut with 3/4" Weldon shank

Contains:

- 1pc H.S.S. Annular Cutter 7/16" x 2" Depth (2081-2012)
- 1pc H.S.S. Annular Cutter 1/2" x 2" Depth (2081-2013)
- 1pc H.S.S. Annular Cutter 9/16" x 2" Depth (2081-2014)
- 1pc H.S.S. Annular Cutter 5/8" x 2" Depth (2081-2015)
- 1pc H.S.S. Annular Cutter 11/16" x 2" Depth (2081-2016)
- 1pc H.S.S. Annular Cutter 3/4" x 2" Depth (2081-2017)
- 1pc H.S.S. Annular Cutter 13/16" x 2" Depth (2081-2018)
- 1pc H.S.S. Annular Cutter 7/8" x 2" Depth (2081-2019)
- 1pc H.S.S. Annular Cutter 15/16" x 2" Depth (2081-2020)
- 1pc H.S.S. Annular Cutter 1" x 2" Depth (2081-2021)
- 1pc H.S.S. Annular Cutter 1-1/16" x 2" Depth (2081-2022)
- 2pcs Pilot Pin Dia. 1/4" x 4" OAL (0600-0090)

In a fitted plastic case



Item #N2
\$439⁰⁰set

7pcs/set - 1" cut with 3/4" Weldon shank

1" cutting depth

Contains:

- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 1pc H.S.S. Annular Cutter 15/16" x 1" Depth (2080-2020)
- 1pc H.S.S. Annular Cutter 1" x 1" Depth (2080-2021)
- 1pc H.S.S. Annular Cutter 1-1/16" x 1" Depth (2080-2022)
- 1pc Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted metal case



Item #BD01-0000
\$183⁰⁰set

8pcs/set - 1" cut with 3/4" Weldon shank

Contains:

- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (2080-2014)
- 1pc H.S.S. Annular Cutter 5/8" x 1" Depth (2080-2015)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (2080-2016)
- 1pc H.S.S. Annular Cutter 3/4" x 1" Depth (2080-2017)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (2080-2018)
- 1pc H.S.S. Annular Cutter 7/8" x 1" Depth (2080-2019)
- 1pc H.S.S. Annular Cutter 15/16" x 1" Depth (2080-2020)
- 1pc H.S.S. Annular Cutter 1" x 1" Depth (2080-2021)
- 8pcs Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a grey kraft packing



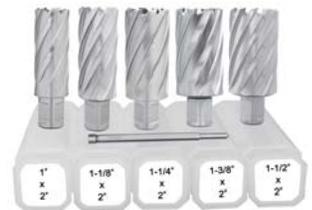
Item #A05
\$251.00/SET

5pcs/set - 2" cut with 3/4" Weldon shank

Contains:

- 1pc H.S.S. Annular Cutter 1" x 2" Depth (2081-2021)
- 1pc H.S.S. Annular Cutter 1-1/8" x 2" Depth (2081-2023)
- 1pc H.S.S. Annular Cutter 1-1/4" x 2" Depth (2081-2025)
- 1pc H.S.S. Annular Cutter 1-3/8" x 2" Depth (2081-2027)
- 1pc H.S.S. Annular Cutter 1-1/2" x 2" Depth (2081-2029)
- 1pc Pilot Pin Dia. 1/4" x 4" OAL (0600-0090)

In a grey kraft packing



Item #L1
\$329.00/SET

7PC H.S.S. ANNULAR CUTTERS SET, 3/4" WELDON SHANK, TIN COATED, IN A METAL CASE

Contains:

- 1pc H.S.S. Annular Cutter 9/16" x 1" Depth (TiN Coated)
- 1pc H.S.S. Annular Cutter 5/8" x 1" Depth (TiN Coated)
- 1pc H.S.S. Annular Cutter 11/16" x 1" Depth (TiN Coated)
- 1pc H.S.S. Annular Cutter 3/4" x 1" Depth (TiN Coated)
- 1pc H.S.S. Annular Cutter 13/16" x 1" Depth (TiN Coated)
- 1pc H.S.S. Annular Cutter 15/16" x 1" Depth (TiN Coated)
- 1pc Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

In a fitted metal case

GREAT **ISO9001**



Item #BC01-1000
\$183⁰⁰
set

7PC M35 (H.S.S. +5% COBALT) ANNULAR CUTTERS SET, 3/4" WELDON SHANK, IN A METAL CASE

Contains:

- 1pc M35 (H.S.S.+5% cobalt) Annular Cutter 9/16" x 1" Depth (bronze color)
- 1pc M35 (H.S.S.+5% cobalt) Annular Cutter 5/8" x 1" Depth (bronze color)
- 1pc M35 (H.S.S.+5% cobalt) Annular Cutter 11/16" x 1" Depth (bronze color)
- 1pc M35 (H.S.S.+5% cobalt) Annular Cutter 3/4" x 1" Depth (bronze color)
- 1pc M35 (H.S.S.+5% cobalt) Annular Cutter 13/16" x 1" Depth (bronze color)
- 1pc M35 (H.S.S.+5% cobalt) Annular Cutter 15/16" x 1" Depth (bronze color)
- 1pc Pilot Pin Dia. 1/4" x 3" OAL (0600-0070)

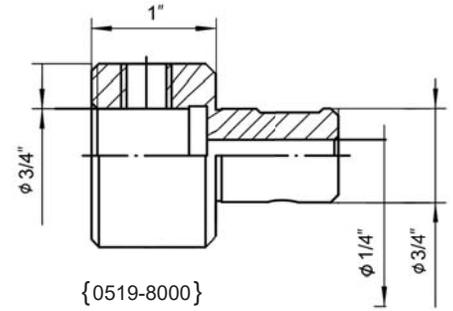
In a fitted metal case

ISO9001



Item #AC01-1000
\$295⁰⁰
set

WELDON ADAPTER



Item	Size			OAL (Except Shank)	Outer Shank Type	Price
	Dia. of Inner Hole	Dia. of Pilot Bore	Dia. of Shank			
0519-8000	3/4"	1/4"	3/4"	1"	Nitto One Touch Shank	\$38.00/PC
0519-8001	3/4"	1/4"	18mm	1"	Fein Quick-in Shank	\$38.00/PC
0519-8003	1-1/4"	5/16"	3/4"	3"	Weldon Shank	\$38.00/PC

REDUCTION RING



Item	Size		Outer Shank Type	Price
	Dia. of Inner Hole	Dia. of Shank		
0511-1434	3/4"	1-1/4"	Weldon Shank	\$36.00/PC

WELDON ADAPTER



Item	Size			OAL (Except Shank)	Outer Shank Type	Price
	Dia. of Inner Hole	Dia. of Pilot Bore	Dia. of Shank			
0519-0025	3/4"	1/4"	3/4"	1"	Weldon Shank	\$22.00/PC
0519-0050	3/4"	1/4"	3/4"	2"	Weldon Shank	\$33.00/PC
0519-0075	3/4"	1/4"	3/4"	3"	Weldon Shank	\$36.00/PC
0519-0100	3/4"	1/4"	3/4"	4"	Weldon Shank	\$42.00/PC

WELDON SHANK ANNULAR CUTTER ADAPTORS FOR DRILL PRESS USE

Item	Size	Price
MC00-0002	MT2 to 3/4" Weldon Shank	\$57.00/PC
MC00-0003	MT3 to 3/4" Weldon Shank	\$57.00/PC
MC00-0004	MT4 to 3/4" Weldon Shank	\$76.00/PC
MC00-0332	MT3 to 1-1/4" Weldon Shank	\$84.00/PC
MC00-0432	MT4 to 1-1/4" Weldon Shank	\$91.00/PC
MC08-0034	R8 to 3/4" Weldon Shank	\$62.00/PC
MC08-0114	R8 to 1-1/4" Weldon Shank Arbor for Milling Machine	\$91.00/PC



MC00-0002

WELDON SHANK ANNULAR CUTTER ADAPTORS WITH COOLANT SYSTEM FOR DRILL PRESS USE

Item	Size	Price
MC10-0002	MT2 to 3/4" with Coolant System	\$76.00/PC
MC10-0003	MT3 to 3/4" with Coolant System	\$76.00/PC
MC10-0332	MT3 to 1-1/4" with Coolant System	\$106.00/PC
MC18-0034	R8 to 3/4" with Coolant System	\$106.00/PC
MC18-0114	R8 to 1-1/4" with Coolant System	\$106.00/PC



MC10-0002

H.S.S. ALIGNING REAMER

WITH 3/4" WELDON SHANK, SPIRAL FLUTE



0521-1116

Features:

- Designed to be used in a magnetic drill that accepts 3/4" Weldon shanks.
- The unique multi-flute design provides a faster, smoother cut and better finishing.

Item	Size	Flute Length	Overall Length	Price
0521-0916	9/16"	4"	5-1/2"	\$32.00/PC
0521-1116	11/16"	4-1/2"	6-1/2"	\$51.00/PC
0521-0034	3/4"	5"	7"	\$54.00/PC
0521-0316	13/16"	5"	7"	\$57.00/PC
0521-1516	15/16"	5"	7"	\$66.00/PC
0521-0001	1"	5"	7"	\$76.00/PC
0521-1716	1-1/16"	5"	7"	\$95.00/PC
0521-1316	1-3/16"	5"	7"	\$105.00/PC
0521-0114	1-1/4"	5"	7"	\$123.00/PC

H.S.S. COUNTERSINK 3/4" WELDON SHANK, 3 FLUTE

GREAT

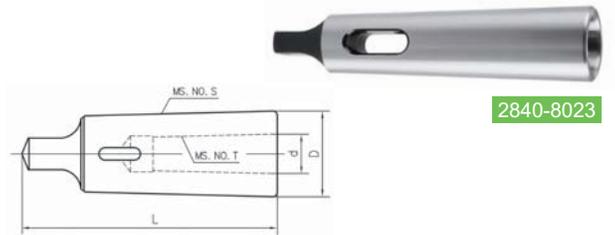


CE00-0112

Item	Size (D)	d1	Shank (b)	OAL (L)	Angle	Price
CE82-0001	1"	3/16"	3/4"	1-3/4"	82°	\$58.00/PC
CE00-0001	1"	3/16"	3/4"	1-3/4"	90°	\$58.00/PC
CE00-0114	1-1/4"	1/4"	3/4"	1-7/8"	90°	\$68.00/PC
CE00-0112	1-1/2"	5/16"	3/4"	2-1/16"	90°	\$79.00/PC
CE00-0002	2"	1/2"	3/4"	2-1/2"	90°	\$129.00/PC

**DIN2185 MORSE TAPER SLEEVE
(HARDENED & GROUND)**

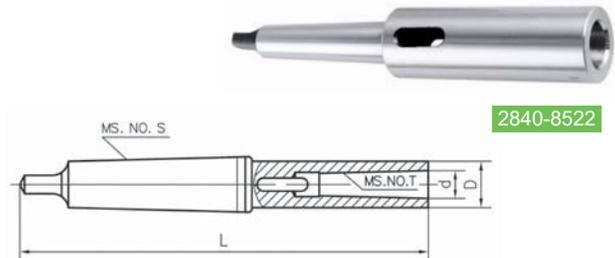
Item	Morse Taper Outside (S)	Morse Taper Inside (T)	D	d	OAL	Accuracy	Price
2840-8023	MT3	MT2	0.948"	0.700"	4.409"	0.0006"	\$18.00/PC
2840-8034	MT4	MT3	1.275"	0.937"	5.511"	0.0006"	\$22.00/PC



2840-8023

**DIN2187 MORSE TAPER EXTENSION SOCKET
(HARDENED & GROUND)**

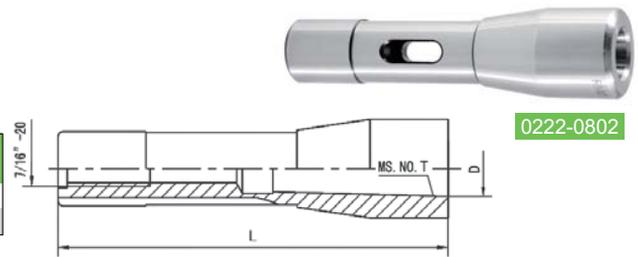
Item	Morse Taper Outside (S)	Morse Taper Inside (T)	D	d	OAL	Accuracy	Price
2840-8522	MT2	MT2	1.181"	0.700"	6.889"	0.0012"	\$26.00/PC
2840-8523	MT3	MT2	1.181"	0.700"	7.637"	0.0012"	\$30.00/PC
2840-8533	MT3	MT3	1.417"	0.938"	8.464"	0.0012"	\$33.00/PC



2840-8522

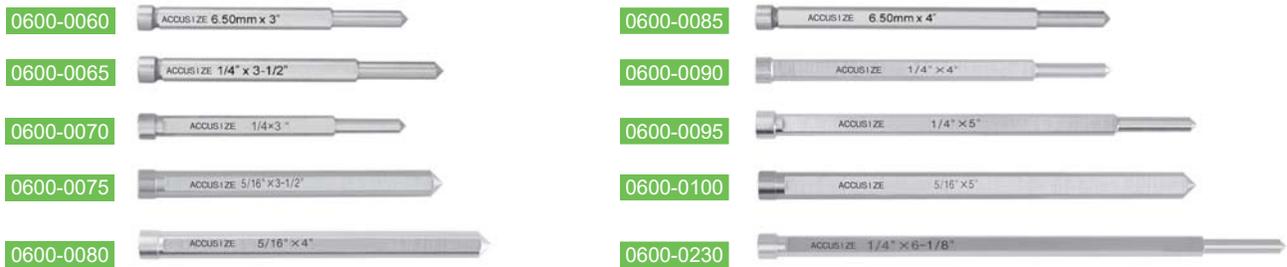
**R8 TO MORSE TAPER MILLING MACHINE ADAPTER
(HARDENED & GROUND)**

Item	Outside Taper	Morse Taper Inside (T)	D	OAL	Price
0222-0802	R8	MT2	0.700"	5.000"	\$22.00/PC
0222-0803	R8	MT3	0.938"	6.023"	\$22.00/PC



0222-0802

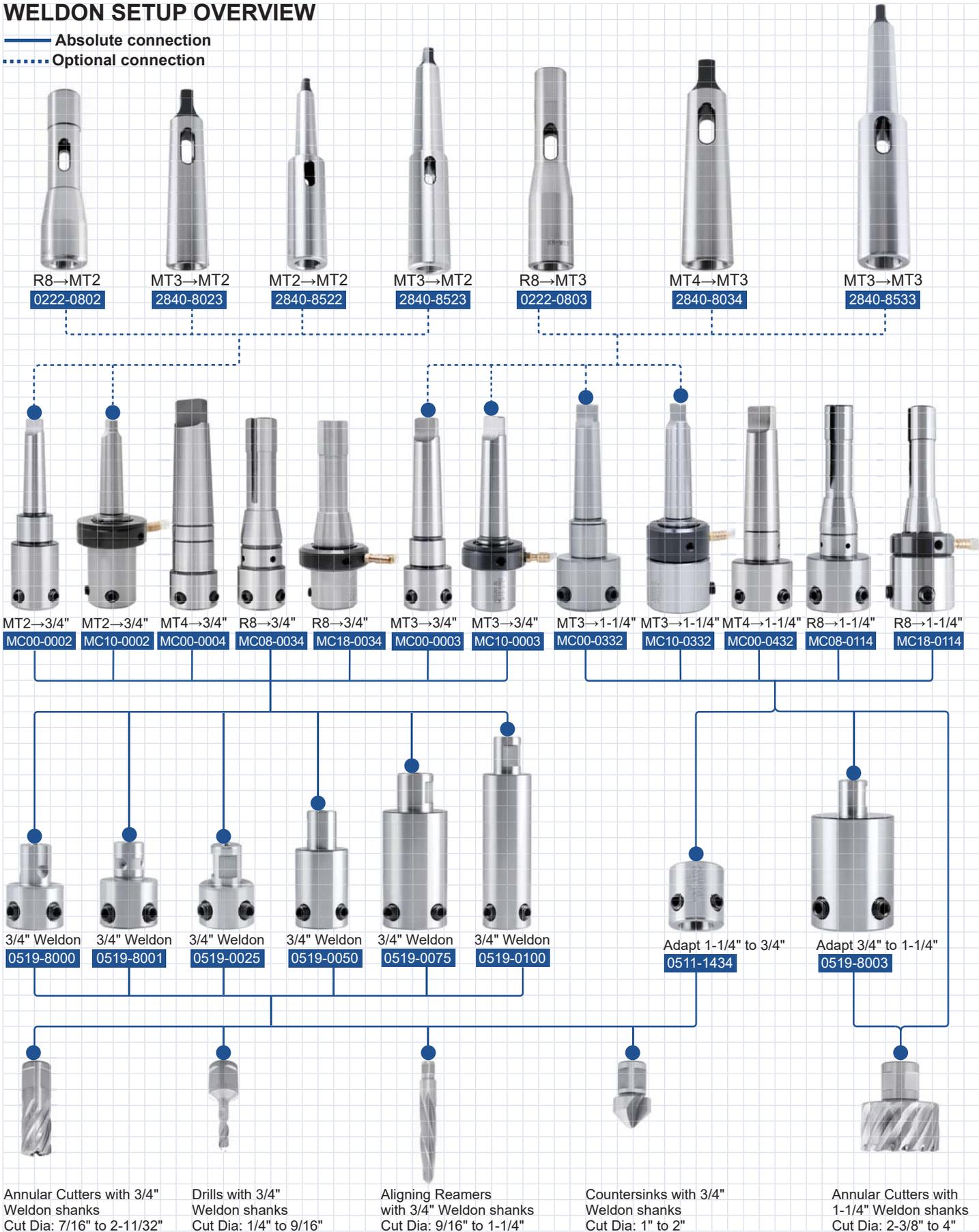
PILOT PIN

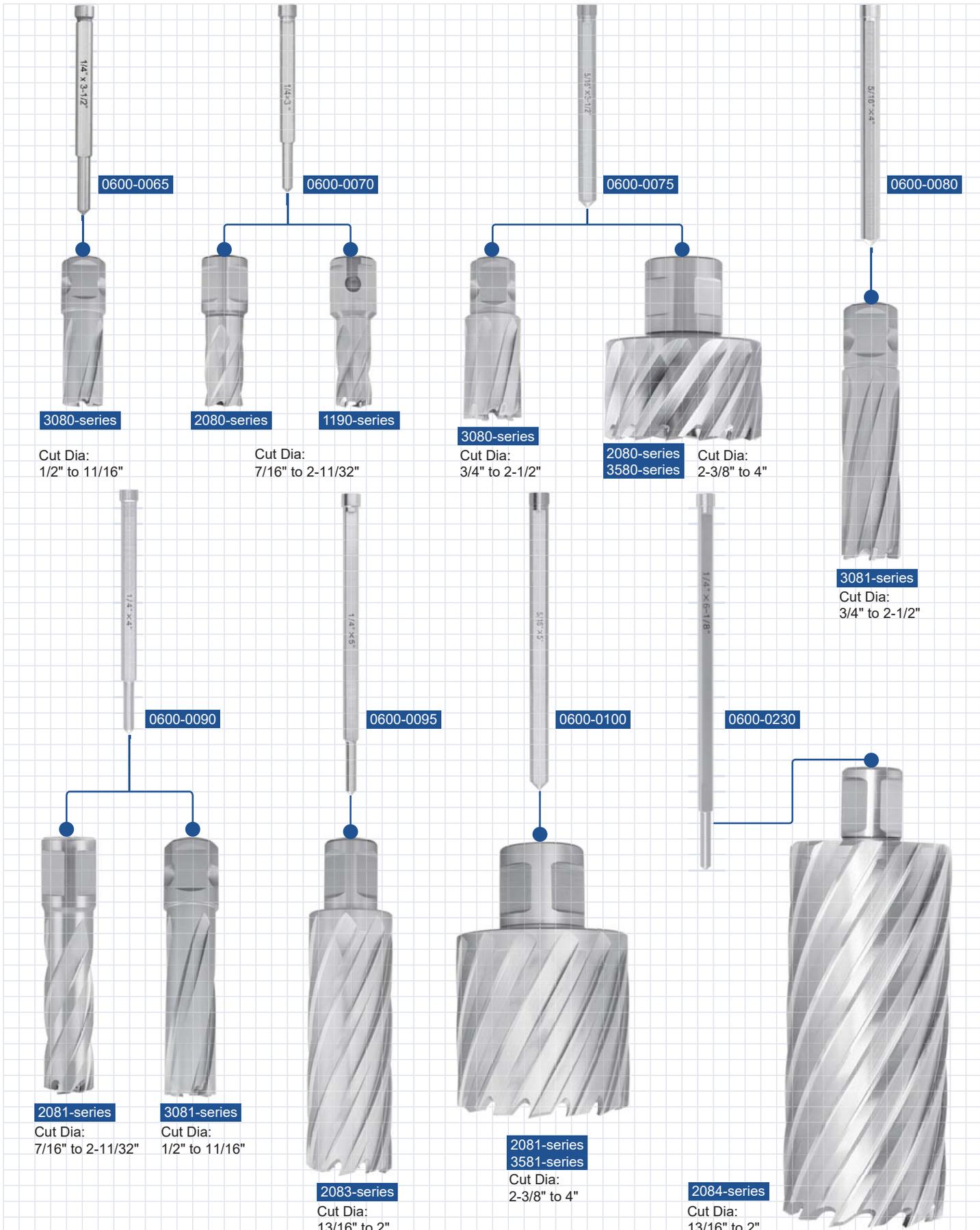


Item	Size		Suitable for Annular Cutter			Price
	Dia	OAL	Series Cutter	Range	Cutting Depth	
0600-0060	6.50mm	3"	2080-series	7/16" to 1/2"	1"	\$2.00/PC
0600-0065	1/4"	3-1/2"	3080-series	1/2" to 11/16"	1"	\$2.00/PC
0600-0070	1/4"	3"	2080-series	7/16" to 2-11/32"	1"	\$2.00/PC
			1190-series	7/16" to 2-11/32"		
0600-0075	5/16"	3-1/2"	2080-series	2-3/8" to 4"	1"	\$2.40/PC
			3080-series	3/4" to 2-1/2"		
			3580-series	2-3/8" to 4"		
0600-0080	5/16"	4"	3081-series	3/4" to 2-1/2"	2"	\$2.40/PC
0600-0085	6.50mm	4"	2081-series	7/16" to 1/2"	2"	\$2.40/PC
0600-0090	1/4"	4"	2081-series	7/16" to 2-11/32"	2"	\$2.40/PC
			3081-series	1/2" to 11/16"		
0600-0095	1/4"	5"	2083-series	13/16" to 2"	3"	\$2.40/PC
0600-0100	5/16"	5"	2081-series	2-3/8" to 4"	2"	\$2.40/PC
			3581-series	2-3/8" to 4"		
0600-0230	1/4"	6-1/8"	2084-series	13/16" to 2"	4"	\$5.30/PC

WELDON SETUP OVERVIEW

— Absolute connection
 Optional connection





CENTER DRILL



Features:

- Plain type
- Right-hand, 60° countersink angle

0530-0500

H.S.S.

Item	Size	Body Dia.	Drill Dia	OAL	Price
0530-0000	NO.0	1/8"	1/32"	1-1/4"	\$2.00/PC
0530-0100	NO.1	1/8"	3/64"	1-1/4"	\$2.00/PC
0530-0200	NO.2	3/16"	5/64"	1-7/8"	\$2.00/PC
0530-0300	NO.3	1/4"	7/64"	2"	\$2.50/PC
0530-0400	NO.4	5/16"	1/8"	2-1/8"	\$3.00/PC
0530-0500	NO.5	7/16"	3/16"	2-3/4"	\$5.80/PC
0530-0600	NO.6	1/2"	7/32"	3"	\$6.60/PC



585-1250

SOLID CARBIDE

Item	Size	Body Dia.	Drill Dia	OAL	Price
585-0460	NO.1	1/8"	3/64"	1-1/4"	\$16.50/PC
585-0782	NO.2	3/16"	5/64"	1-7/8"	\$20.00/PC
585-1092	NO.3	1/4"	7/64"	2"	\$26.00/PC
585-1250	NO.4	5/16"	1/8"	2-1/8"	\$40.00/PC

6PC M35 (H.S.S. +5% COBALT) TIALN COATED CENTER DRILL SET

Features:

- M35(H.S.S.+5% Cobalt)
- In a fitted plastic case.

Item #3500-6001
\$53.00/SET

Inch size (6pcs):

- 2pcs No.1 (1/8" x 3/64" x 1-1/4" OAL)
- 1pc No.2 (3/16" x 5/64" x 1-7/8" OAL)
- 1pc No.3 (1/4" x 7/64" x 2" OAL)
- 1pc No.4 (5/16" x 1/8" x 2-1/8" OAL)
- 1pc No.5 (7/16" x 3/16" x 2-3/4" OAL)



3500-6001

Metric size (6pcs):

- 2pcs A1.0 (1.0 x 3.15 x 1.3 x 31.5mm OAL)
- 1pc A2.0 (2.0 x 5.0 x 2.5 x 40mm OAL)
- 1pc A3.0 (3.0 x 8.0 x 3.9 x 50mm OAL)
- 1pc A4.0 (4.0 x 10.0 x 5.0 x 56mm OAL)
- 1pc A5.0 (5.0 x 12.5 x 6.3 x 63mm OAL)

Item #3500-6002
\$53.00/SET

5PC H.S.S. M2 LONG SERIES CENTER DRILL SET

ISO9001



Features:

- H.S.S.
- Right-hand included angle 60°
- In a fitted Rose-plastic case

Set includes:

- No.1 (1/8" x 3/64" x 4" OAL)
- No.2 (3/16" x 5/64" x 4" OAL)
- No.3 (1/4" x 7/64" x 4" OAL)
- No.4 (5/16" x 1/8" x 4" OAL)
- No.5 (7/16" x 3/16" x 4" OAL)



Item #3560-1001
\$46⁰⁰ set

5PC ANSI M42 (H.S.S.+8% COBALT) CENTER DRILL SET

GREAT



Features:

- M42(H.S.S.+8% Cobalt)
- Plain style
- Right-hand, standard included angle 60°
- Used for centering work ends, where the workpiece is to be revolved on machine centers, 60° countersink angle fits all standard centers.
- Ground from Solid, single fluted
- In a fitted plastic case.

Set includes:

- No.1 (1/8" x 3/64" x 1-1/4" OAL)
- No.2 (3/16" x 5/64" x 1-7/8" OAL)
- No.3 (1/4" x 7/64" x 2" OAL)
- No.4 (5/16" x 1/8" x 2-1/8" OAL)
- No.5 (7/16" x 3/16" x 2-3/4" OAL)



Item #0556-5500
\$40⁰⁰ set

21PC M35(H.S.S.+5% COBALT) JOBBER LENGTH DRILL SET 135° SPLIT POINT

ISO9001

Features:

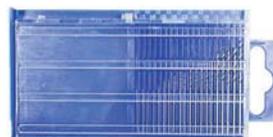
- M35(H.S.S.+5% Cobalt).
- 21pcs set: 1/16-3/8" by 64ths.
- Straight shank, ANSI standard.
- Right-hand.
- 135° split point drills do not require spot before drilling to prevent walking. The cobalt 135° split point drills last longer, cut faster and enable much less wobble than standard HSS 118° point drills. Ideal for drilling cast iron, heat-treated steel, stainless steel and other hard materials.
- In a fitted Rose-plastic case.



Item #0021-0200
\$75.00/SET

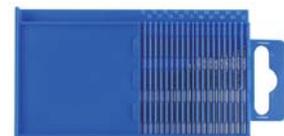
20PC H.S.S. MINI DRILL SET

ISO9001



0.3-1.6mm with a Plastic Case

Item #EXP1-1520
\$14.00/SET



#61-#80 with a Plastic Case

Item #EXP1-1521
\$14.00/SET

BORING HEAD

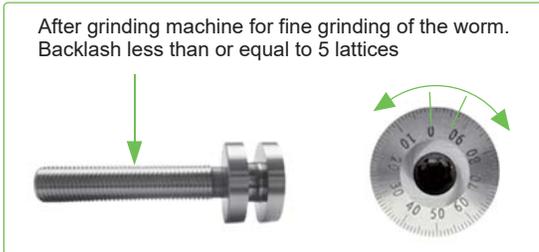
GREAT **ISO9001**

Features:

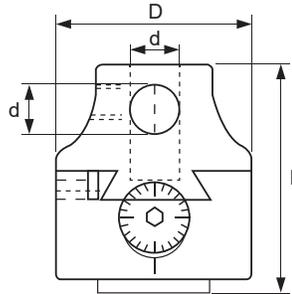
- High-quality excellent performance and practical design at an affordable price.
- Maximum rigidity is assured when the boring bar holder is used in an offset position.
- The hardened and ground adjusting screw along with a wide base design guarantees long and trouble-free use.



0350-0003



After grinding machine for fine grinding of the worm.
Backlash less than or equal to 5 lattices



Item	Size (D)	OAL (L)	Hole Size (d)	Center Dist Between Holes	Off Set	Thread Mount	Price
0350-0002	2"	2-1/2"	1/2"	5/8"	5/8"	7/8"-20	\$119.00/PC
0350-0003	3"	3-5/32"	3/4"	15/16"	1"	1-1/2"-18	\$158.00/PC
0350-0004	4"	3-43/64"	1"	1-1/4"	1"	1-1/2"-18	\$290.00/PC

BORING HEAD SHANK



Threaded 1-1/2"-18 TPI

Item	Shank	Price
0355-0108	R8 Bridgeport	\$43.00/PC
0355-0114	1" Straight Shank	\$40.00/PC
0536-0112	ISO40 Shank	\$72.00/PC
0538-0304	CAT40 Holder (Draw Bar 5/8"-11) for #0350-0003 & #0350-0004 Boring Head	\$80.00/PC

Threaded 7/8"-20 TPI

Item	Shank	Price
0538-0002	CAT40 Holder (Draw Bar 5/8"-11) for #0350-0002 Boring Head	\$80.00/PC
0350-0105	R8 Bridgeport	\$40.00/PC
0350-0106	1/2" Straight Shank	\$40.00/PC
0350-0107	3/4" Straight Shank	\$40.00/PC
8505-4001	MT2 Arbor for #0350-0002 Boring Head	\$55.00/PC

CARBIDE TIPPED BORING BAR SET

Features:

- Grade C6: carbide for steel and alloy steel.
- Up to 100% longer tool life.
- All shanks are hardened and ground to +0.0000" ~ -0.0005".
- Tool life is extended by the use of extra steel supporting the carbide cutting edge. This prevents chatter, and improves precision.
- The same bar can bore flat-bottom hole or face.
- Grind bars on cutting ends for special tools such as grooving, threading or automatic operations.
- All 1/2", 3/4", and 1" shanks fit most boring and facing heads.



0375-0333

Item	Size	Pcs. In Set	Price
0375-0111	3/8"	9	\$44.00/SET
0375-0333	1/2"	9	\$64.00/SET
0375-0555	5/8"	12	\$77.00/SET
0375-0777	3/4"	12	\$109.00/SET
0375-0999	1"	6	\$152.00/SET

90 DEGREE, INDEXABLE BORING BAR SET
(Round Shank, oxide finish body)

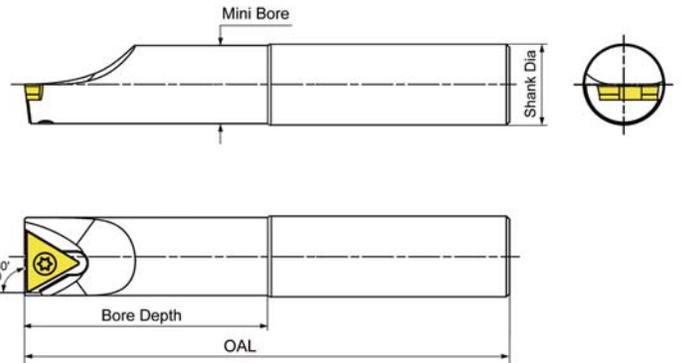
Features:

- Round shank allows the operator to set positive or negative rake.
- Chip breaker eliminates long stringer chips.
- A new cutting edge may be presented by simply indexing the insert.
- No need to remove tool from chucks or tool posts.
- Screw down style.
- Positive rake 90° lead.
- Carbide inserts: Grade C6;
Carbide for steel and alloy steel 1/4" I.C. carbide insert fits all bars;
Radius: 1/64".
- Key: T8.
- 8pc extra screws.
- In a fitted aluminum case.

GREAT
ISO9001



2627-9108



Item	Shank Dia	Piece per Set	Price
2627-9104	1/2"	4	\$142.00/SET
2627-9106	5/8"	6	\$209.00/SET
2627-9108	3/4"	8	\$308.00/SET

NOT SOLD SEPARATELY

Item	Shank Dia	OAL	Bore Depth	Mini Bore	Insert	Insert Screw
2627-3020	1/2"	2-3/4"	1-1/4"	7/16"	TCMT21.5	M2.5 x 5
2627-3022	1/2"	3-5/8"	2-1/8"	7/16"	TCMT21.5	M2.5 x 5
2627-3024	1/2"	3"	1-1/2"	1/2"	TCMT21.5	M2.5 x 5
2627-3026	1/2"	4"	2-1/2"	1/2"	TCMT21.5	M2.5 x 5
2627-3028	5/8"	3"	1-1/4"	7/16"	TCMT21.5	M2.5 x 5
2627-3030	5/8"	3-7/8"	2-1/8"	7/16"	TCMT21.5	M2.5 x 5
2627-3032	5/8"	3-1/4"	1-1/2"	1/2"	TCMT21.5	M2.5 x 5
2627-3034	5/8"	4-1/4"	2-1/2"	1/2"	TCMT21.5	M2.5 x 5
2627-3036	5/8"	3-1/2"	1-3/4"	9/16"	TCMT22	M2.5 x 5
2627-3038	5/8"	4-5/8"	2-7/8"	9/16"	TCMT22	M2.5 x 5
2627-3040	3/4"	3-3/8"	1-3/8"	7/16"	TCMT21.5	M2.5 x 5
2627-3042	3/4"	4-1/4"	2-1/4"	7/16"	TCMT21.5	M2.5 x 5
2627-3044	3/4"	3-5/8"	1-5/8"	1/2"	TCMT21.5	M2.5 x 5
2627-3046	3/4"	4-5/8"	2-5/8"	1/2"	TCMT21.5	M2.5 x 5
2627-3048	3/4"	3-7/8"	1-7/8"	9/16"	TCMT22	M2.5 x 6
2627-3050	3/4"	5"	3"	9/16"	TCMT22	M2.5 x 6
2627-3052	3/4"	4-1/4"	2-1/4"	11/16"	TCMT22	M2.5 x 6
2627-3054	3/4"	5-1/2"	3-1/2"	11/16"	TCMT22	M2.5 x 6



2627-3032

CARBIDE INSERT, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6124-1028	TCMT21.51	\$6.60/PC



CARBIDE INSERT, FOR CUTTING ALUMINUM

Item	Size	Price
6624-1024	TCGT21.51-LH	\$6.60/PC



CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6224-0193	TCMT221-P3	\$6.60/PC
6224-1028	TCMT21.51-P3	\$6.60/PC



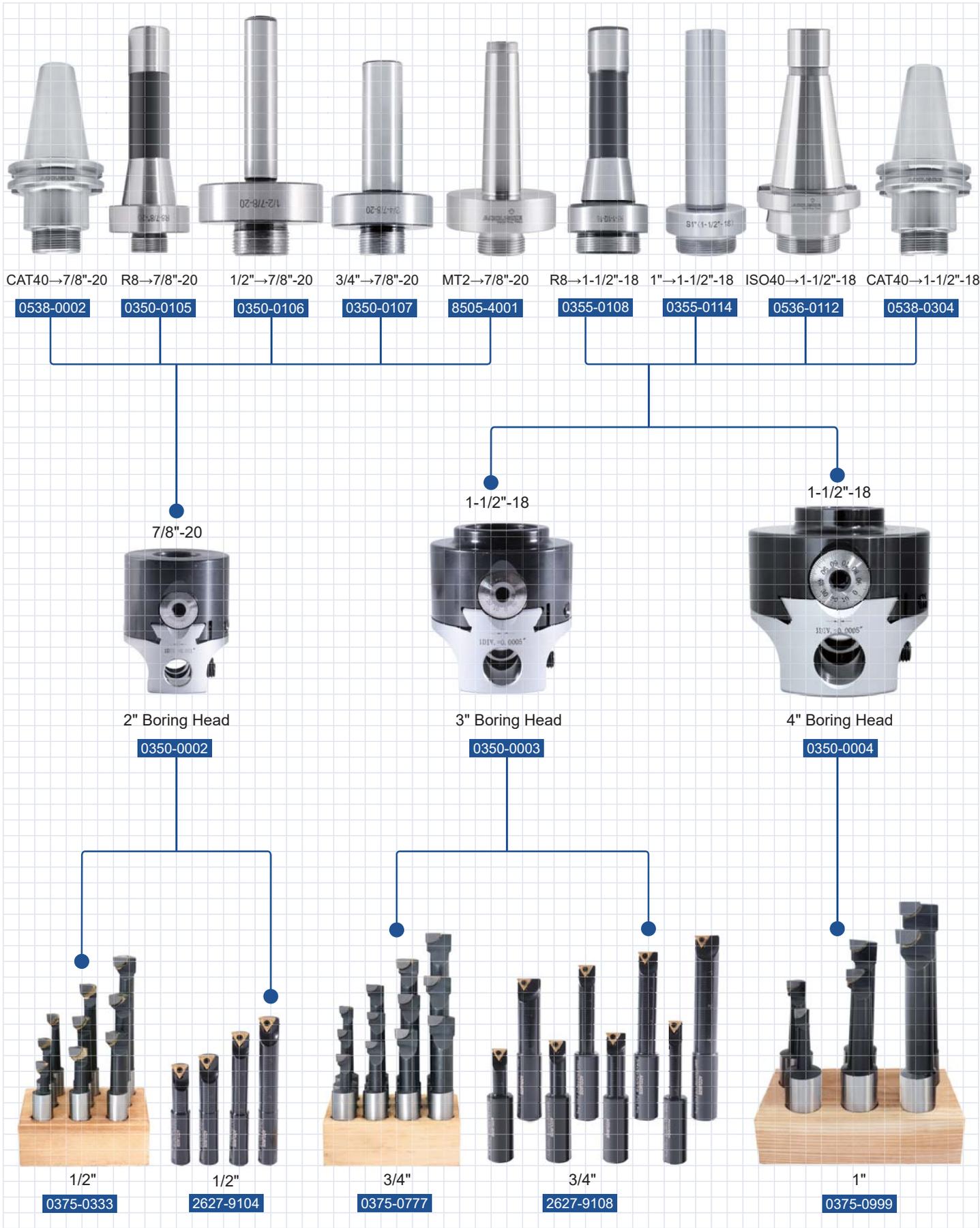
6224-1028

REPLACEMENT SCREWS

Item	Size	Price
0046-2505	M2.5 x 5	\$3.60/PC
0046-2506	M2.5 x 6	\$3.60/PC



0046-2506



5PC 0 FLUTE H.S.S. COUNTERSINK & DEBURRING TOOL SET, PILOTLESS TYPE

ISO9001

Overview:

- **All-in-one set** of five sizes (#0, #1, #2, #3, #4) in a fitted plastic case for convenient organization.
- **Pilotless, 0-flute design** delivers quick stock removal with minimal chatter, making it ideal for countersinking and deburring.
- **High-Speed Steel (H.S.S.) construction** for good wear resistance across mild steels, aluminum, copper, brass, bronze, plastics, rubber, and wood.
- **Single cutting edge** simplifies cutting action and yields a clean, smooth finish.
- **Easy to re-sharpen** using a small mounted grinding wheel inserted into the flute area.



0206-0490

Key Benefits:

- **Versatile Material Range:** Works effectively on both ferrous and non-ferrous materials.
- **Reduced Chatter and Vibration:** The single cutting edge and pilotless design help produce uniform countersinks.
- **Long Tool Life:** Precision-ground H.S.S. resists wear and can be resharpened multiple times.
- **Simple Setup:** No pilot hole required—perfect for general-purpose countersinking and deburring tasks.



90° #4



90° #0

Item	Angle	Size	Shank Dia.	Hole Diameter which can be cut			Price
				Smallest Size	Largest Size		
0206-0460	60°	#0	1/4"	1/8"	15/64"	Double end	\$92.00/SET
		#1	1/4"	3/16"	13/32"	Single end	
		#2	1/4"	5/16"	17/32"	Single end	
		#3	1/2"	7/16"	25/32"	Single end	
		#4	1/2"	11/16"	1-3/32"	Single end	
0206-0482	82°	#0	1/4"	1/16"	15/64"	Double end	\$92.00/SET
		#1	1/4"	5/32"	13/32"	Single end	
		#2	1/4"	3/16"	17/32"	Single end	
		#3	1/2"	5/16"	25/32"	Single end	
		#4	1/2"	9/16"	1-1/16"	Single end	
0206-0490	90°	#0	1/4"	1/16"	15/64"	Double end	\$92.00/SET
		#1	1/4"	5/32"	13/32"	Single end	
		#2	1/4"	3/16"	17/32"	Single end	
		#3	1/2"	5/16"	25/32"	Single end	
		#4	1/2"	9/16"	1-1/16"	Single end	

6 FLUTE H.S.S. MACHINE COUNTERSINK SET

Features:

- 8pcs/set, each of: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" & 1".
- Made of H.S.S. and precision ground.
- In a fitted plastic case.



0206-1018

Item	Angle	Price
0206-0010	60°	\$142.00/SET
0206-1018	82°	\$142.00/SET
0206-2016	90°	\$142.00/SET

SINGLE FLUTE H.S.S. COUNTERSINK SET

Features:

- 9pcs/set, each of: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" & 1".
- Made of H.S.S. and precision ground.
- In a fitted plastic case.



0245-1029

Item	Angle	Price
0245-0021	60°	\$128.00/SET
0245-1029	82°	\$128.00/SET
0245-2027	90°	\$128.00/SET



GREAT
ISO9001



ISO9001

**7PC H.S.S. SOLID CAPSCREW
COUNTERBORE SET, 3 FLUTE
STRAIGHT SHANK**

Item #508S-0007 \$92.00/SET

Inch size (7pcs):
• 6#, 8#, 10#, 1/4", 5/16", 3/8", & 1/2"

Item #508S-007M \$92.00/SET

Metric size (7pcs):
• M3, M4, M5, M6, M8, M10, & M12



508S-0007



**7PC PREMIUM H.S.S. SOLID CAPSCREW
COUNTERBORE SET, 3 FLUTE
STRAIGHT SHANK**

GREAT

Item #509S-0007 \$119.00/SET

Inch size (7pcs):
• 6#, 8#, 10#, 1/4", 5/16", 3/8", & 1/2"

Item #509S-007M \$119.00/SET

Metric size (7pcs):
• M3, M4, M5, M6, M8, M10, & M12



509S-0007



**21PC H.S.S. INTERCHANGEABLE PILOT COUNTERBORE SET
SHORT LENGTH**

ISO9001

Item #3620-0121 \$150.00/SET

Inch size:
• 14pcs pilots: 0.187", 0.204", 0.213", 0.229", 1/4", 17/64", 9/32", 5/16", 21/64", 11/32", 3/8", 25/64", 13/32" & 7/16"
• 6pcs counterbores: 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8"
• 1pc 3/8" straight shank holder
• In a fitted aluminum case

Item #3620-0122 \$150.00/SET

Metric size:
• 14pcs pilots: 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, & 10.5mm
• 6pcs counterbores: 8.5, 9.5, 10.5, 11.5, 13.5, & 16.5mm
• 1pc 10mm straight shank holder
• In a fitted aluminum case



3620-0122

39PC H.S.S. INTERCHANGEABLE PILOT COUNTERBORE SET

ISO9001

Features:
• 13pcs counterbores: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" & 1"
• 26pcs pilots:
1/8", 5/32", 3/16, and 1/4" with 3/32" shanks
3/16", 7/32", 1/4", 9/32" and 5/16" with 5/32" shanks
1/4", 5/16", 3/8", 7/16" and 1/2" with 3/16" shanks
5/16", 3/8", 7/16", 1/2", 9/16" and 5/8" with 1/4" shanks
3/8", 7/16", 1/2", 9/16", 5/8" and 3/4" with 5/16" shanks
• In a fitted aluminum case



Straight Shank 15/16"



Taper Shank 15/16"



500S-A000

Item	Description	Price
500S-A000	Straight shank	\$416.00/SET
500T-B000	Taper shank	\$459.00/SET

NOT SOLD SEPARATELY

Size	Pilot Hole Size	Number of Flute	Overall Length	Shank	
				Straight Shank Shank Diameter	Taper Shank Morse Taper No.
1/4"	3/32"	3	3-13/16"	15/64"	1
5/16"	3/32"	3	3-13/16"	19/64"	1
3/8"	5/32"	3	4-1/16"	5/16"	1
7/16"	5/32"	3	4-1/16"	3/8"	1
1/2"	3/16"	3	4-5/16"	7/16"	1
9/16"	3/16"	3	4-5/16"	1/2"	1
5/8"	3/16"	3	5-1/8"	1/2"	2
11/16"	3/16"	3	5-1/8"	1/2"	2
3/4"	1/4"	3	5-3/8"	1/2"	2
13/16"	1/4"	3	5-3/8"	5/8"	2
7/8"	1/4"	3	5-3/8"	3/4"	2
15/16"	1/4"	3	6-1/8"	3/4"	3
1"	5/16"	3	6-3/8"	3/4"	3

NEW



500T-B000

H.S.S. MORSE TAPER FINISHING REAMER
STRAIGHT SHANK, STRAIGHT FLUTE, SQUARE END TOOL



2802-0003

Features:

- Straight shank.
- For hand reaming operations.
- For resizing of drilled and bored holes to suit standard Morse Tapered shanks.
- For reaming Morse taper sockets in a variety of normal ferrous & non-ferrous materials.

Item	For Morse Taper	Diameter		Flute Length	Shank Diameter	OAL	Price
		Small End	Large End				
2802-0001	1MT	0.3674"	0.5170"	3"	7/16"	5"	\$41.00/PC
2802-0002	2MT	0.5696"	0.7444"	3-1/2"	5/8"	6"	\$54.00/PC
2802-0003	3MT	0.7748"	0.9881"	4-1/4"	7/8"	7-1/4"	\$98.00/PC
2802-0004	4MT	1.0167"	1.2893"	5-1/4"	1-1/8"	8-1/2"	\$141.00/PC
2802-0005	5MT	1.4717"	1.8005"	6-1/4"	1-1/2"	9-3/4"	\$318.00/PC

M35 (H.S.S. + 5% COBALT) SQUARE TOOL BIT

Features:

- Ground for heavy duty cutting work on cast and forged steels



5095-0022

Regular Length

Item	Width	Height	OAL	Price
5095-0012	1/4"	1/4"	2-1/2"	\$3.90/PC
5095-0017	5/16"	5/16"	2-1/2"	\$5.50/PC
5095-0032	1/2"	1/2"	4"	\$20.00/PC
5095-0022	5/8"	5/8"	4-1/2"	\$35.00/PC
5095-0052	3/4"	3/4"	5"	\$54.00/PC



5095-0120

Extra Length

Item	Width	Height	OAL	Price
5095-0110	1/4"	1/4"	6"	\$8.00/PC
5095-0120	3/8"	3/8"	6"	\$18.00/PC
5095-0130	1/2"	1/2"	6"	\$31.00/PC

M35 (H.S.S. + 5% COBALT) ROUND TOOL BIT, GROUND



5098-0038

Item	Size	OAL	Price
5098-0018	1/8"	2-3/4"	\$3.00/PC
5098-0014	1/4"	4"	\$4.30/PC
5098-0038	3/8"	5"	\$12.00/PC
5098-0012	1/2"	6"	\$24.00/PC
5098-0058	5/8"	6"	\$36.00/PC
5098-0034	3/4"	6"	\$51.00/PC

6PC H.S.S. INTERNAL THREADING & BORING TOOL SET



Features:

- Made of H.S.S., delivers a fine and smooth cutting process.
- A holder is provided to hold the tools.
- Using cutting fluids to increase performance.
- In a fitted aluminum case.



2663-2001

Set includes:

- A: Boring bar
- B: Boring bar
- C: Boring bar
- D: 60° internal threading
- E: 55° internal threading
- Tool block



Item	Shank Size	Price
2663-2001	1/4"	\$95.00/SET
2663-2002	5/16"	\$119.00/SET
2663-2003	3/8"	\$129.00/SET
2663-2004	1/2"	\$145.00/SET

8PC H.S.S. LATHER TURNING TOOL BIT SET
PRE-GROUND FOR TURNING & FACING WORK

Applications:

- Can be used for machining most materials including steel, brass, aluminum, plastic, and wood.

Features:

- Made of H.S.S.
- Tools retain their hardness at high temperatures.
- In a fitted aluminum case.



2662-2001

Set includes:

- 80° Lathe tool (left-hand)
- 80° Lathe tool (right-hand)
- 60° Lathe tool (left-hand)
- 60° Lathe tool (right-hand)
- 60° External thread tool
- 60° Internal thread tool
- Cut-off tool
- Boring tool

Item	Shank Size	Price
2662-2001	1/4"	\$66.00/SET
2662-2002	5/16"	\$76.00/SET
2662-2003	3/8"	\$97.00/SET
2662-2004	1/2"	\$119.00/SET

18PC H.S.S. TAP & DRILL SET (UNF, UNC AND METRIC)

GREAT

ISO9001



0001-0040



0001-0050



0001-0052

Features:

- ANSI standard.
- Ground from solid high speed steel.
- Organizes 9pcs taps with the 9pcs corresponding jobber length drills.
- General purpose for use in ferrous and non-ferrous material.
- In a fitted metal index.

Item	Description	Price
0001-0040	18pcs UNC Tap & Drill Set	\$86.00/SET
0001-0050	18pcs UNF Tap & Drill Set	\$86.00/SET
0001-0052	18pcs Metric Tap & Drill Set	\$86.00/SET



0001-0040, 18pcs UNC Tap & Drill Set

Size of Taps	Size of Drills
6-32UNC	#36
8-32UNC	#29
10-24UNC	#25
10-32UNF	#21
1/4"-20UNC	#7
5/16"-18UNC	F
3/8"-16UNC	5/16"
7/16"-14UNC	U
1/2"-13UNC	27/64"

0001-0050, 18pcs UNF Tap & Drill Set

Size of Taps	Size of Drills
6-40UNF	#33
8-36UNF	#29
10-24UNC	#25
10-32UNF	#21
1/4"-28UNF	#3
5/16"-24UNF	I
3/8"-24UNF	Q
7/16"-20UNF	25/64"
1/2"-20UNF	29/64"

0001-0052, 18pcs Metric Tap & Drill Set

Size of Taps	Size of Drills
M2.5 x 0.45	2.05mm
M3.0 x 0.50	2.50mm
M3.5 x 0.60	2.90mm
M4.0 x 0.70	3.30mm
M5.0 x 0.80	4.20mm
M6.0 x 1.00	5.00mm
M8.0 x 1.25	6.70mm
M10.0 x 1.50	8.50mm
M12.0 x 1.75	10.20mm



0001-0040



H.S.S. TAPER PIPE TAP-NPT

GREAT

ISO9001

Features:

- ANSI standard.
- Ground from high speed steel.
- Designed for the internal threading of pipe fittings and pipes.
- General purpose taps.



NPT-12

Item	Size	Flute	Thread Length	Shank Diameter	OAL	Price
NPT-116	1/16"-27	4	11/16"	0.3125"	2-1/8"	\$12.80/PC
NPT-18	1/8"-27	4	3/4"	0.4375"	2-1/8"	\$12.80/PC
NPT-14	1/4"-18	4	1-1/16"	0.5625"	2-7/16"	\$18.00/PC
NPT-38	3/8"-18	4	1-1/16"	0.7000"	2-9/16"	\$22.00/PC
NPT-12	1/2"-14	4	1-3/8"	0.6875"	3-1/8"	\$25.50/PC
NPT-34	3/4"-14	5	1-3/8"	0.9063"	3-1/4"	\$44.00/PC
NPT-1	1"-11-1/2	5	1-3/4"	1.1250"	3-3/4"	\$79.00/PC
NPT-1-14	1-1/4"-11-1/2	5	1-3/4"	1.3125"	4"	\$141.00/PC
NPT-1-12	1-1/2"-11-1/2	7	1-3/4"	1.5000"	4-1/4"	\$189.00/PC
NPT-2	2"-11-1/2	7	1-3/4"	1.8750"	4-1/2"	\$308.00/PC
NPT-2-12	2-1/2"-8	8	2-9/16"	—	5-1/2"	\$538.00/PC
NPT-3	3"-8	8	2-5/8"	—	6"	\$735.00/PC

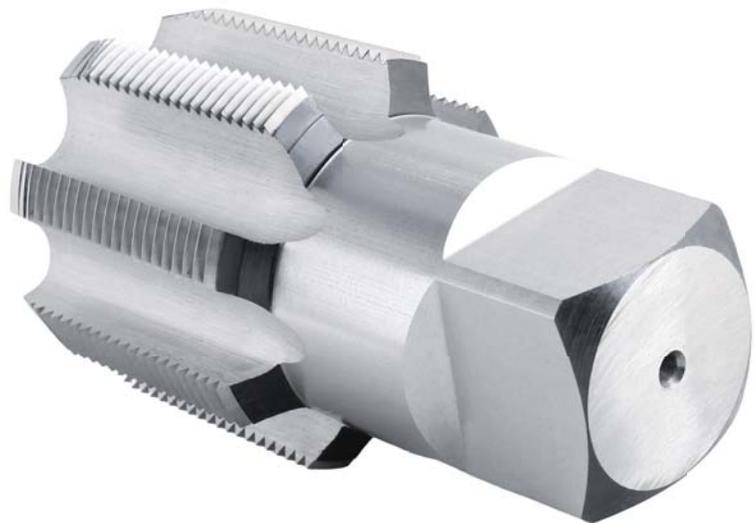


NPT-1



Fully Ground,
High-Speed-Steel

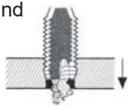
NPT-3



H.S.S. SPIRAL POINT TAP

Features:

- American standard
- Fully ground
- Plug style



SPT-1/2-13



SPT-1/4-20

Item	Size	Flute	H Limit	Price
SPT-2-56	2-56NC	2	H2	\$5.00/PC
SPT-3-48	3-48NC	2	H2	\$5.00/PC
SPT-4-40	4-40NC	2	H2	\$5.00/PC
SPT-4-48	4-48NF	2	H2	\$5.00/PC
SPT-5-40	5-40NC	2	H2	\$5.00/PC
SPT-6-32	6-32NC	2	H2	\$5.00/PC
SPT-8-32	8-32NC	2	H2	\$5.00/PC
SPT-8-36	8-36NF	2	H2	\$5.00/PC
SPT-10-24	10-24NC	2	H3	\$5.00/PC
SPT-10-32	10-32NF	2	H3	\$5.00/PC
SPT-12-24	12-24NC	2	H3	\$5.00/PC
SPT-12-28	12-28NF	2	H3	\$5.00/PC
SPT-1/4-20	1/4"-20NC	2	H3	\$5.60/PC
SPT-1/4-28	1/4"-28NF	2	H3	\$5.60/PC
SPT-5/16-18	5/16"-18NC	2	H3	\$7.50/PC
SPT-5/16-24	5/16"-24NF	2	H3	\$7.50/PC
SPT-3/8-16	3/8"-16NC	3	H3	\$7.50/PC
SPT-3/8-24	3/8"-24NF	3	H3	\$7.50/PC
SPT-7/16-14	7/16"-14NC	3	H3	\$12.80/PC
SPT-7/16-20	7/16"-20NF	3	H3	\$12.80/PC
SPT-1/2-13	1/2"-13NC	3	H3	\$15.20/PC
SPT-1/2-20	1/2"-20NF	3	H3	\$15.20/PC
SPT-5/8-11	5/8"-11NC	3	H3	\$18.00/PC
SPT-5/8-18	5/8"-18NF	3	H3	\$18.00/PC
SPT-3/4-10	3/4"-10NC	3	H3	\$31.00/PC
SPT-7/8-9	7/8"-9NC	3	H4	\$41.00/PC
SPT-1-8	1"-8NC	3	H4	\$54.00/PC

H.S.S. METRIC SPIRAL POINT TAP



SPT-12M-150



SPT-6M-10

Item	Size	Flute	H Limit	Price
SPT-3M-05	M3 x 0.5	2	D3	\$4.80/PC
SPT-4M-07	M4 x 0.7	2	D4	\$4.80/PC
SPT-5M-08	M5 x 0.8	2	D4	\$5.00/PC
SPT-6M-10	M6 x 1.0	2	D5	\$5.00/PC
SPT-8M-10	M8 x 1.0	2	D5	\$7.50/PC
SPT-8M-125	M8 x 1.25	2	D5	\$7.50/PC
SPT-10M-10	M10 x 1.0	2	D5	\$8.00/PC
SPT-10M-125	M10 x 1.25	3	D5	\$8.00/PC
SPT-10M-150	M10 x 1.5	3	D6	\$8.00/PC
SPT-12M-125	M12 x 1.25	3	D5	\$11.00/PC
SPT-12M-150	M12 x 1.5	3	D6	\$11.00/PC
SPT-12M-175	M12 x 1.75	3	D6	\$11.00/PC
SPT-14M-125	M14 x 1.25	3	D5	\$13.60/PC
SPT-14M-150	M14 x 1.5	3	D6	\$13.60/PC
SPT-14M-200	M14 x 2.0	3	D7	\$13.60/PC
SPT-16M-150	M16 x 1.5	3	D6	\$18.00/PC
SPT-16M-200	M16 x 2.0	3	D7	\$18.00/PC
SPT-18M-150	M18 x 1.5	3	D6	\$25.00/PC
SPT-18M-250	M18 x 2.5	3	D7	\$25.00/PC
SPT-20M-150	M20 x 1.5	3	D6	\$30.00/PC
SPT-20M-250	M20 x 2.5	3	D7	\$30.00/PC
SPT-22M-150	M22 x 1.5	3	D6	\$39.00/PC
SPT-22M-250	M22 x 2.5	3	D7	\$39.00/PC
SPT-24M-150	M24 x 1.5	3	D6	\$48.80/PC
SPT-24M-300	M24 x 3.0	3	D7	\$48.80/PC

H.S.S. COMBINED TAP & DRILL

ISO9001



TD-1/4-28

Item	Size	OAL	Thread Length	Drill Length	Drill Size	Price
TD-6-32	6-32NC	2"	11/16"	5/16"	0.1095"	\$9.00/PC
TD-8-32	8-32NC	2-1/8"	3/4"	3/8"	0.1360"	\$9.00/PC
TD-10-24	10-24NC	2-3/8"	7/8"	13/32"	0.1520"	\$9.00/PC
TD-10-32	10-32NF	2-3/8"	7/8"	13/32"	0.1610"	\$9.00/PC
TD-1/4-20	1/4"-20NC	2-1/2"	15/16"	17/32"	0.2010"	\$9.00/PC
TD-1/4-28	1/4"-28NF	2-1/2"	15/16"	17/32"	0.2175"	\$9.00/PC
TD-5/16-18	5/16"-18NC	3"	1-1/8"	11/16"	0.2570"	\$10.00/PC
TD-5/16-24	5/16"-24NF	3"	1-1/8"	11/16"	0.2720"	\$10.00/PC
TD-3/8-16	3/8"-16NC	3-1/2"	1-1/4"	13/16"	0.3125"	\$14.00/PC
TD-3/8-24	3/8"-24NF	3-1/2"	1-1/4"	13/16"	0.3345"	\$14.00/PC
TD-7/16-14	7/16"-14NC	3-7/8"	1-7/16"	1"	0.3680"	\$15.00/PC
TD-7/16-20	7/16"-20NF	3-7/8"	1-7/16"	1"	0.3690"	\$15.00/PC
TD-1/2-13	1/2"-13NC	4-1/4"	1-21/32"	1-1/8"	0.4250"	\$18.00/PC
TD-1/2-20	1/2"-20NF	4-1/4"	1-21/32"	1-1/8"	0.4510"	\$18.00/PC

Item	Size	OAL	Thread Length	Drill Length	Drill Size	Price
TD-6mm	M6 x 1.0	2-1/2"	25/32"	17/32"	0.2030"	\$9.00/PC
TD-8mm	M8 x 1.25	2-27/32"	15/16"	11/16"	0.2735"	\$9.00/PC
TD-10mm	M10 x 1.5	3-3/8"	1-1/16"	13/16"	0.3440"	\$14.00/PC

H.S.S. SPIRAL FLUTE TAP

GROUND THREAD, BOTTOMING STYLE

ISO9001



2012-0014

Features:

- Made from high speed steel with ground thread.
- 35° helix angle bottoming with 1-2 thread chamfer.
- Right-hand cut, square drive shank.
- Bright finished.
- Can be used for plug or bottoming applications and thread to the bottom of blind holes.
- Spiral flute draws chips out of a relatively deep holes.
- Longer chamfer evenly spreads cutting force over a great number of teeth as the production increases.

Item	Size	OAL	Thread Length	Price
2012-0006	M4 x 0.7	2-1/8"	3/4"	\$5.00/PC
2012-0010	M5 x 0.8	2-3/8"	7/8"	\$5.00/PC
2012-0014	M6 x 1.0	2-1/2"	1"	\$8.00/PC
2012-0022	M8 x 1.25	2-23/32"	1-1/8"	\$8.00/PC
2012-0031	M10 x 1.5	2-15/16"	1-1/4"	\$9.00/PC

Item	Size	OAL	Thread Length	Price
2022-0013	1/4"-20NC	2-1/2"	1"	\$5.00/PC
2022-0015	5/16"-18NC	2-23/32"	1-1/8"	\$8.00/PC
2022-0017	3/8"-16NC	2-15/16"	1-1/4"	\$9.00/PC
2022-0021	1/2"-13NC	3-3/8"	1-21/32"	\$18.00/PC

ANSI H.S.S. CHUCKING REAMER SET

STRAIGHT SHANK, STRAIGHT FLUTE, RIGHT-HAND CUT

ISO9001



5500-SX00



5500-SB00



5500-SE00



5500-SK00

Features:

- H.S.S.
- Straight shank, ANSI standard
- Straight flute, right-hand cut
- Diameter tolerance: +0.0001" to +0.0005"
-0.0000"

Item	Piece per Set	Range	Price
5500-SF00	29	Fractional Sizes — 1/16" thru 1/2" by 64ths	\$336.00/SET
5500-SL00	26	Letter Sizes — A thru Z	\$336.00/SET
5500-SX00	14	Over & Under Sizes — 0.1240" thru 0.5010"	\$186.00/SET
5500-SB00	25	Metric Sizes — 1.0mm thru 13.0mm by 0.5mm	\$325.00/SET
5500-SK00	60	Wire Gauge Sizes — #1 thru #60 in a Strong USA HUOT Metal Box	\$718.00/SET
5500-SE00	13	Fractional Sizes — 1/16" thru 1/4" by 64ths Jobber length	\$189.00/SET

5500-SF00, in a Wooden Box
29pcs/set: 1/16" thru 1/2" by 64ths

Size	Dec. Equiv.	Flute Legth	Overall Length
1/16"	0.0625"	1/2"	2-1/2"
5/64"	0.0781"	3/4"	3"
3/32"	0.0938"	3/4"	3"
7/64"	0.1094"	7/8"	3-1/2"
1/8"	0.1250"	7/8"	3-1/2"
9/64"	0.1406"	1"	4"
5/32"	0.1562"	1"	4"
11/64"	0.1719"	1-1/8"	4-1/2"
3/16"	0.1875"	1-1/8"	4-1/2"
13/64"	0.2031"	1-1/4"	5"
7/32"	0.2188"	1-1/4"	5"
15/64"	0.2344"	1-1/2"	6"
1/4"	0.2500"	1-1/2"	6"
17/64"	0.2656"	1-1/2"	6"
9/32"	0.2812"	1-1/2"	6"
19/64"	0.2969"	1-1/2"	6"
5/16"	0.3125"	1-1/2"	6"
21/64"	0.3281"	1-1/2"	6"
11/32"	0.3438"	1-1/2"	6"
23/64"	0.3594"	1-3/4"	7"
3/8"	0.3750"	1-3/4"	7"
25/64"	0.3906"	1-3/4"	7"
13/32"	0.4062"	1-3/4"	7"
27/64"	0.4219"	1-3/4"	7"
7/16"	0.4375"	1-3/4"	7"
29/64"	0.4531"	1-3/4"	7"
15/32"	0.4688"	1-3/4"	7"
31/64"	0.4844"	2"	8"
1/2"	0.5000"	2"	8"

5500-SL00, in a Wooden Box
26pcs/set: A thru Z

Size	Dec. Equiv.	Flute Legth	Overall Length
A	0.2340"	1-1/2"	6"
B	0.2380"	1-1/2"	6"
C	0.2420"	1-1/2"	6"
D	0.2460"	1-1/2"	6"
E	0.2500"	1-1/2"	6"
F	0.2570"	1-1/2"	6"
G	0.2610"	1-1/2"	6"
H	0.2660"	1-1/2"	6"
I	0.2720"	1-1/2"	6"
J	0.2770"	1-1/2"	6"
K	0.2810"	1-1/2"	6"
L	0.2900"	1-1/2"	6"
M	0.2950"	1-1/2"	6"
N	0.3020"	1-1/2"	6"
O	0.3160"	1-1/2"	6"
P	0.3230"	1-1/2"	6"
Q	0.3320"	1-1/2"	6"
R	0.3390"	1-1/2"	6"
S	0.3480"	1-3/4"	7"
T	0.3580"	1-3/4"	7"
U	0.3680"	1-3/4"	7"
V	0.3770"	1-3/4"	7"
W	0.3860"	1-3/4"	7"
X	0.3970"	1-3/4"	7"
Y	0.4040"	1-3/4"	7"
Z	0.4130"	1-3/4"	7"



5500-SF00



5500-SL00

5500-SX00, in a Wooden Box
14pcs/set: 0.1240" thru 0.5010"

Size	Dec. Equiv.	Flute Legth	Overall Length
0.1240"	0.1240"	7/8"	3-1/2"
0.1260"	0.1260"	7/8"	3-1/2"
0.1865"	0.1865"	1-1/8"	4-1/2"
0.1885"	0.1885"	1-1/8"	4-1/2"
0.2490"	0.2490"	1-1/2"	6"
0.2510"	0.2510"	1-1/2"	6"
0.3115"	0.3115"	1-1/2"	6"
0.3135"	0.3135"	1-1/2"	6"
0.3740"	0.3740"	1-3/4"	7"
0.3760"	0.3760"	1-3/4"	7"
0.4365"	0.4365"	1-3/4"	7"
0.4385"	0.4385"	1-3/4"	7"
0.4990"	0.4990"	2"	8"
0.5010"	0.5010"	2"	8"



5500-SK00, in a Strong USA HUOT Metal Box,
60pcs/set: #1 thru #60

Size	Dec. Equiv.	Flute Legth	Overall Length
#1	0.2280"	1-1/2"	6"
#2	0.2210"	1-1/2"	6"
#3	0.2130"	1-1/4"	5"
#4	0.2090"	1-1/4"	5"
#5	0.2055"	1-1/4"	5"
#6	0.2040"	1-1/4"	5"
#7	0.2010"	1-1/4"	5"
#8	0.1990"	1-1/4"	5"
#9	0.1960"	1-1/4"	5"
#10	0.1935"	1-1/4"	5"
#11	0.1910"	1-1/4"	5"
#12	0.1890"	1-1/8"	4-1/2"
#13	0.1850"	1-1/8"	4-1/2"
#14	0.1820"	1-1/8"	4-1/2"
#15	0.1800"	1-1/8"	4-1/2"
#16	0.1770"	1-1/8"	4-1/2"
#17	0.1730"	1-1/8"	4-1/2"
#18	0.1695"	1-1/8"	4-1/2"
#19	0.1660"	1-1/8"	4-1/2"
#20	0.1610"	1-1/8"	4-1/2"
#21	0.1590"	1-1/8"	4-1/2"
#22	0.1570"	1"	4"
#23	0.1540"	1"	4"
#24	0.1520"	1"	4"
#25	0.1495"	1"	4"
#26	0.1470"	1"	4"
#27	0.1440"	1"	4"
#28	0.1405"	1"	4"
#29	0.1360"	1"	4"
#30	0.1285"	7/8"	3-1/2"
#31	0.1200"	7/8"	3-1/2"
#32	0.1160"	7/8"	3-1/2"
#33	0.1130"	7/8"	3-1/2"
#34	0.1110"	7/8"	3-1/2"
#35	0.1100"	7/8"	3-1/2"
#36	0.1065"	7/8"	3-1/2"
#37	0.1040"	7/8"	3-1/2"
#38	0.1015"	7/8"	3-1/2"
#39	0.0995"	7/8"	3-1/2"
#40	0.0980"	7/8"	3-1/2"
#41	0.0960"	7/8"	3-1/2"
#42	0.0935"	3/4"	3"
#43	0.0890"	3/4"	3"
#44	0.0860"	3/4"	3"
#45	0.0820"	3/4"	3"
#46	0.0810"	3/4"	3"
#47	0.0785"	3/4"	3"
#48	0.0760"	3/4"	3"
#49	0.0730"	3/4"	3"
#50	0.0700"	3/4"	3"
#51	0.0670"	3/4"	3"
#52	0.0635"	1/2"	2-1/2"
#53	0.0595"	1/2"	2-1/2"
#54	0.0550"	1/2"	2-1/2"
#55	0.0520"	1/2"	2-1/2"
#56	0.0465"	1/2"	2-1/2"
#57	0.0430"	1/2"	2-1/2"
#58	0.0420"	1/2"	2-1/2"
#59	0.0410"	1/2"	2-1/2"
#60	0.0400"	1/2"	2-1/2"



5500-SX00

5500-SB00, in a Wooden Box
25pcs/set: 1.00mm thru 13.00mm by 0.5mm

Size	Dec. Equiv.	Flute Legth	Overall Length
1.0mm	0.0394"	1/2"	2-1/2"
1.5mm	0.0591"	1/2"	2-1/2"
2.0mm	0.0787"	3/4"	3"
2.5mm	0.0984"	7/8"	3-1/2"
3.0mm	0.1181"	7/8"	3-1/2"
3.5mm	0.1378"	1"	4"
4.0mm	0.1575"	1"	4"
4.5mm	0.1772"	1-1/8"	4-1/2"
5.0mm	0.1969"	1-1/4"	5"
5.5mm	0.2165"	1-1/4"	5"
6.0mm	0.2362"	1-1/2"	6"
6.5mm	0.2559"	1-1/2"	6"
7.0mm	0.2756"	1-1/2"	6"
7.5mm	0.2953"	1-1/2"	6"
8.0mm	0.3150"	1-1/2"	6"
8.5mm	0.3346"	1-1/2"	6"
9.0mm	0.3543"	1-3/4"	7"
9.5mm	0.3740"	1-3/4"	7"
10.0mm	0.3937"	1-3/4"	7"
10.5mm	0.4134"	1-3/4"	7"
11.0mm	0.4331"	1-3/4"	7"
11.5mm	0.4528"	1-3/4"	7"
12.0mm	0.4724"	1-3/4"	7"
12.5mm	0.4921"	2"	8"
13.0mm	0.5118"	2"	8"



5500-SB00

5500-SE00, in a Metal Box
13pcs/set: 1/16" thru 1/4" by 64ths
Jobber length

Size	Dec. Equiv.	Flute Legth	Overall Length	No. of Flutes
1/16"	0.0625"	1/2"	1-7/8"	4
5/64"	0.0781"	3/4"	2"	4
3/32"	0.0938"	3/4"	2-1/4"	4
7/64"	0.1094"	7/8"	2-5/8"	4
1/8"	0.1250"	7/8"	2-3/4"	4
9/64"	0.1406"	1"	2-7/8"	4
5/32"	0.1562"	1"	3-1/8"	6
11/64"	0.1719"	1-1/8"	3-1/4"	6
3/16"	0.1875"	1-1/8"	3-1/2"	6
13/64"	0.2031"	1-1/4"	3-5/8"	6
7/32"	0.2188"	1-1/4"	3-3/4"	6
15/64"	0.2344"	1-1/2"	3-7/8"	6
1/4"	0.2500"	1-1/2"	4"	6



5500-SE00

ANSI H.S.S. M2 PREMIUM CHUCKING REAMER SET

STRAIGHT SHANK, STRAIGHT FLUTE, RIGHT-HAND CUT

GREAT

ISO9001

Features:

- Made from premium H.S.S. M2
- Straight shank, ANSI standard
- Straight flute, right-hand cut
- Chucking reamers are designed for accurate reaming in most materials using all types of equipment including screw machines, turret lathes, drill presses, and machining centers
- They are regularly pointed with a 45° chamfer
- The straight-flute design is recommended for most general purpose reaming
- Diameter tolerance: +0.0001" to +0.0005"
-0.0000"
- In a fitted aluminum case

Item	Piece per Set	Set Description	Price
5528-SF00	29	Fractional Sizes — 1/16" thru 1/2" by 64ths	\$416.00/SET
5528-SX00	14	Over & Under Sizes — 0.1240" thru 0.5010"	\$212.00/SET
5528-ST00	14	Dowel Pin Reamer Sizes — 0.1230" thru 0.4995"	\$212.00/SET
5528-SH00	7	Fractional Sizes — 1/8" thru 1/2" by 16ths	\$139.00/SET



5528-SF00

5528-SF00,
29pcs/set: 1/16" thru 1/2" by 64ths

Size	Dec. Equiv.	Flute Legth	Overall Length
1/16"	0.0625"	1/2"	2-1/2"
5/64"	0.0781"	3/4"	3"
3/32"	0.0938"	3/4"	3"
7/64"	0.1094"	7/8"	3-1/2"
1/8"	0.1250"	7/8"	3-1/2"
9/64"	0.1406"	1"	4"
5/32"	0.1562"	1"	4"
11/64"	0.1719"	1-1/8"	4-1/2"
3/16"	0.1875"	1-1/8"	4-1/2"
13/64"	0.2031"	1-1/4"	5"
7/32"	0.2188"	1-1/4"	5"
15/64"	0.2344"	1-1/2"	6"
1/4"	0.2500"	1-1/2"	6"
17/64"	0.2656"	1-1/2"	6"
9/32"	0.2812"	1-1/2"	6"
19/64"	0.2969"	1-1/2"	6"
5/16"	0.3125"	1-1/2"	6"
21/64"	0.3281"	1-1/2"	6"
11/32"	0.3438"	1-1/2"	6"
23/64"	0.3594"	1-3/4"	7"
3/8"	0.3750"	1-3/4"	7"
25/64"	0.3906"	1-3/4"	7"
13/32"	0.4062"	1-3/4"	7"
27/64"	0.4219"	1-3/4"	7"
7/16"	0.4375"	1-3/4"	7"
29/64"	0.4531"	1-3/4"	7"
15/32"	0.4688"	1-3/4"	7"
31/64"	0.4844"	2"	8"
1/2"	0.5000"	2"	8"

5528-SX00, 14pcs/set: 0.1240" thru 0.5010"

Size	Dec. Equiv.	Flute Legth	Overall Length
0.1240"	0.1240"	7/8"	3-1/2"
0.1260"	0.1260"	7/8"	3-1/2"
0.1865"	0.1865"	1-1/8"	4-1/2"
0.1885"	0.1885"	1-1/8"	4-1/2"
0.2490"	0.2490"	1-1/2"	6"
0.2510"	0.2510"	1-1/2"	6"
0.3115"	0.3115"	1-1/2"	6"
0.3135"	0.3135"	1-1/2"	6"
0.3740"	0.3740"	1-3/4"	7"
0.3760"	0.3760"	1-3/4"	7"
0.4365"	0.4365"	1-3/4"	7"
0.4385"	0.4385"	1-3/4"	7"
0.4990"	0.4990"	2"	8"
0.5010"	0.5010"	2"	8"



5528-SX00

5528-ST00, 14pcs/set: 0.1230" thru 0.4995"

Size	Dec. Equiv.	Flute Legth	Overall Length
0.1230"	0.1230"	7/8"	3-1/2"
0.1247"	0.1247"	7/8"	3-1/2"
0.1855"	0.1855"	1-1/8"	4-1/2"
0.1870"	0.1870"	1-1/8"	4-1/2"
0.2480"	0.2480"	1-1/2"	6"
0.2495"	0.2495"	1-1/2"	6"
0.3105"	0.3105"	1-1/2"	6"
0.3120"	0.3120"	1-1/2"	6"
0.3730"	0.3730"	1-3/4"	7"
0.3745"	0.3745"	1-3/4"	7"
0.4355"	0.4355"	1-3/4"	7"
0.4370"	0.4370"	1-3/4"	7"
0.4980"	0.4980"	2"	8"
0.4995"	0.4995"	2"	8"

5528-SH00, 7pcs/set: 1/8" thru 1/2" by 16ths

Size	Dec. Equiv.	Flute Legth	Overall Length
1/8"	0.1250"	7/8"	3-1/2"
3/16"	0.1875"	1-1/8"	4-1/2"
1/4"	0.2500"	1-1/2"	6"
5/16"	0.3125"	1-1/2"	6"
3/8"	0.3750"	1-3/4"	7"
7/16"	0.4375"	1-3/4"	7"
1/2"	0.5000"	2"	8"



5528-SH00

ANSI H.S.S. CHUCKING REAMER

STRAIGHT SHANK, STRAIGHT FLUTE, RIGHT-HAND CUT

GREAT



0400-5160



5015-0330

Features:

- Standard 45° chambered cutting edge.
 - Straight flute design.
 - Bright finished.
- Diameter Tolerance:**
- Thru 1/4" diameter.....+0.0001" to +0.0004" - 0.0000"
 - Above 1/4" to 1".....+0.0001" to +0.0005" - 0.0000"
 - Above 1" to 1-1/2".....+0.0002" to +0.0006" - 0.0000"

Metric Size

Item	Size	Dec. Equiv.	Flute Length	Overall Length	Price
0400-5080	8.0mm	0.3150"	1-1/2"	6"	\$18.00/PC
0400-5150	15.0mm	0.5906"	2"	8"	\$28.00/PC
0400-5160	16.0mm	0.6299"	2-1/4"	9"	\$32.00/PC
0400-5180	18.0mm	0.7087"	2-1/4"	9"	\$39.00/PC
0400-5200	20.0mm	0.7874"	2-1/2"	9-1/2"	\$40.00/PC

Inch Size

Item	Size	Dec. Equiv.	Flute Length	Overall Length	Price
5015-0045	1/4"	0.2500"	1-1/2"	6"	\$19.00/PC
5015-0245	7/8"	0.8750"	2-5/8"	10"	\$48.00/PC
5015-0285	1"	1.0000"	2-3/4"	10-1/2"	\$64.00/PC
5015-0305	1-1/8"	1.1250"	2-7/8"	11"	\$79.00/PC
5015-0320	1-1/4"	1.2500"	3"	11-1/2"	\$98.00/PC
5015-0330	1-3/8"	1.3750"	3-1/4"	12"	\$109.00/PC
5015-0340	1-1/2"	1.5000"	3-1/2"	12-1/2"	\$128.00/PC

H.S.S. ALIGNING REAMER

HEX SHANK, SPIRAL FLUTE

ISO9001



0523-6045

Features:

- Ideal for use in bridge building, steel erection, ship building industries, and other structural steel applications.
- Each reamer shank matches the socket size of the bolt that will be driven through the newly reamed hole.

Item	Size	Flute Length	Overall Length	Hex Shank Size	Price
0523-6025	11/16"	4-1/2"	6-1/2"	1-1/16"	\$61.00/PC
0523-6035	13/16"	5"	7"	1-1/4"	\$73.00/PC
0523-6045	15/16"	5"	7"	1-7/16"	\$84.00/PC
0523-6055	1-1/16"	5"	7"	1-5/8"	\$98.00/PC

H.S.S. ALIGNING REAMER

MAGNETIC HEX SHANK, SPIRAL FLUTE

ISO9001



1523-8055

Features:

- The revolutionary new H.S.S. reamer has a machined hex shank for use in electric or pneumatic Impact Wrenches.
- The hex shank has a strong magnetic, which is convenient for better matching with the socket.
- This reamer is designed for aligning and enlarging existing holes which are overlapping, or smaller than the required diameter.
- Simply fit one of our reamers into the specified socket size on your Impact wrench and quickly and simply enlarge the existing hole to the desired size.
- For portable pneumatic tools, short enables use in limited access areas.
- The shank diameter for each reamer matches socket size for the bolt which will be driven through the newly reamed hole.

Item	Size	Flute Length	Overall Length	Hex Shank Size	Price
1523-8025	11/16"	4-1/2"	6-1/2"	1-1/16"	\$73.00/PC
1523-8035	13/16"	5"	7"	1-1/4"	\$90.00/PC
1523-8045	15/16"	5"	7"	1-7/16"	\$99.00/PC
1523-8055	1-1/16"	5"	7"	1-5/8"	\$118.00/PC

H.S.S. ALIGNING REAMER

STRAIGHT SHANK WITH 3 EQUAL FLATS TO FIT 1/2" CHUCKS
SPIRAL FLUTE

ISO9001

0522-0058



0522-1516



Features:

- 5 flute.
- Left-hand spiral with right-hand cut.
- HSS reamers to align existing holes prior to rivet or bolt installation.
- The tapered point allows it to enter overlapping and misaligned holes.
- Can be used for portable reaming.

Item	Size	Flute Length	Overall Length	Shank Diameter	Shank Length	Price
0522-0038	3/8"	2-3/4"	4-5/8"	3/8"	1-1/2"	\$31.00/PC
0522-0012	1/2"	4"	5-7/8"	1/2"	1-1/2"	\$42.00/PC
0522-0058	5/8"	4-1/2"	6-3/8"	1/2"	1-1/2"	\$51.00/PC
0522-1116	11/16"	4-1/2"	6-3/8"	1/2"	1-1/2"	\$54.00/PC
0522-0034	3/4"	5"	6-7/8"	1/2"	1-1/2"	\$61.00/PC
0522-1316	13/16"	5"	6-7/8"	1/2"	1-1/2"	\$64.00/PC
0522-0078	7/8"	5"	6-7/8"	1/2"	1-1/2"	\$66.00/PC
0522-1516	15/16"	5"	6-7/8"	1/2"	1-1/2"	\$76.00/PC
0522-0001	1"	5"	6-7/8"	1/2"	1-1/2"	\$92.00/PC
0522-1716	1-1/16"	5"	6-7/8"	1/2"	1-1/2"	\$105.00/PC

**H.S.S. 4PC STANDARD FLUTE
SUPER-PREMIUM CAR REAMER SET**
SPIRAL FLUTE, STRAIGHT SHANK WITH 3 EQUAL FLATS
TO FIT 1/2" CHUCKS

- Features:
- Gold oxide
 - Straight shanks with stop collars to prevent the reamers from running through holes
 - In a fitted wooden case

Set includes:
• 3/8", 1/2", 5/8" & 3/4"

Item #0522-1800
\$176⁰⁰
set



**H.S.S. 5PC STANDARD FLUTE
SUPER-PREMIUM CAR REAMER SET**
SPIRAL FLUTE, STRAIGHT SHANK WITH 3 EQUAL FLATS
TO FIT 1/2" CHUCKS

GREAT

- Features:
- Gold oxide
 - Straight shanks with stop collars to prevent the reamers from running through holes
 - In a fitted wooden case

Set includes:
• 3/8", 1/2", 9/16", 5/8" & 3/4"

Item #0522-1900
\$193⁰⁰
set



**H.S.S. 4PC STANDARD FLUTE
SUPER-PREMIUM CAR REAMER SET**
SPIRAL FLUTE, STRAIGHT SHANK WITH 3 EQUAL FLATS
TO FIT 1/2" CHUCKS

ISO9001

- Features:
- Straight shanks with stop collars to prevent the reamers from running through holes
 - In a fitted aluminum case

Set includes:
• 3/8", 1/2", 5/8" & 3/4"

Item #0522-1808
\$202⁰⁰
set



**H.S.S. 5PC STANDARD FLUTE
SUPER-PREMIUM CAR REAMER SET**
SPIRAL FLUTE, STRAIGHT SHANK WITH 3 EQUAL FLATS
TO FIT 1/2" CHUCKS

ISO9001

- Features:
- Straight shanks with stop collars to prevent the reamers from running through holes
 - In a fitted aluminum case

Set includes:
• 3/8", 1/2", 9/16", 5/8" & 3/4"

Item #0522-1909
\$229⁰⁰
set



H.S.S. KEYWAY BROACH SET

Features:

- All broach sets are furnished in aluminum fitting case, and come complete with precision broaches, slotted bushings, and necessary shims.



NO.00 Precision Set

Features:

- The most common keyway combinations for small keyways and bores.
- 3 broaches by 5 bushings equals 15 combinations.

Item #5100-0001
\$183.00/SET

Keyway Size	Broach Style	Bushing Diameters Bore Sizes- Collared
1/16"	A	1/4", 5/16", 3/8", 7/16" & 1/2"
3/32"	A	
1/8"	A	

NO.10 Standard Set

GREAT

Features:

- Cuts 18 different keyways.
- All necessary shims.

Item #5100-0010
\$368.00/SET

Keyway Size	Broach Style	Bushing Diameters Bore Sizes- Collared
1/8"	B	1/2", 5/8", 3/4" & 7/8"
3/16"	B	
1/4"	C	1", 1-1/8", 1-1/4", 1-3/8" & 1-1/2"
3/8"	C	

NO. 10-10A Combination Set

Features:

- Combines 10 and 10A sets.
- 4 broaches and 18 bushings equals 36 combinations.

Item #5100-0012
\$568.00/SET

Keyway Size	Broach Style	Bushing Diameters Bore Sizes- Collared
1/8"	B	1/2", 9/16", 5/8", 11/16", 3/4", 13/16" & 7/8"
3/16"	B	
1/4"	C	15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2" & 1-9/16"
3/8"	C	



NO.40A Standard Set

Item #5100-0042
\$845.00/SET

Keyway Size	Broach Style	Bushing Dia Bore Size Plain Only
5/16"	D	1-1/2" & 1-5/8", 1-3/4" & 1-7/8", 2", 2-1/8", 2-1/4" & 2-1/2"
3/8"	D	
7/16"	D	
1/2"	D	



NO.60 Metric Set

Features:

- The most common metric keyway combinations for small keyways and bores.

Item #5100-0060
\$158.00/SET

Keyway Size	Broach Style	Bushing Dia Bore Size Plain Only
2mm	A	6, 8 & 10mm
3mm	A	



NO.70 Metric Set

Item #5100-0070
\$658.00/SET

Keyway Size	Broach Style	Bushing Dia Bore Size Plain Only
4mm	B	12, 14, 15 & 16mm
5mm	B	
6mm	C	18, 19, 20, 22, 24, 25, 26, 28 & 30mm
8mm	C	

H.S.S. KEYWAY BROACH

ISO9001

Technical data:

- Manufactured from H.S.S.
- Ground from solid.
- Straight teeth on one edge of each broach.
- Made to cut either inch or millimeter size keyways.
- Bright finished.

Features:

- Hardened and ground bars with cutting teeth on one side.
- Sized and proportioned to afford a good cutting range and ample rigidity.

Applications:

- Specialty tools designed for cutting keyways in machined holes.
- Typically used manually with an arbor press to produce the keyways.
- Well suited for use in a variety of ferrous and non-ferrous metals.



Item	Broach Size	Tolerances Dec.Equiv.	Dimensions	Shims Required	Length of Cut	Price
5000-0002	1/16"-A	0.0625 - 0.0635	1/8" x 5"	0	13/64" - 1-1/8"	\$42.00/PC
5000-0004	3/32"-A	0.0938 - 0.0948	1/8" x 5"	0	13/64" - 1-1/8"	\$42.00/PC
5000-0006	1/8"-A	0.1252 - 0.1262	1/8" x 5"	1	13/64" - 1-1/8"	\$42.00/PC
5000-0008	3/32"-B	0.0938 - 0.0948	3/16" x 6-3/4"	0	19/64" - 1-11/16"	\$55.00/PC
5000-0010	1/8"-B	0.1252 - 0.1262	3/16" x 6-3/4"	1	19/64" - 1-11/16"	\$55.00/PC
5000-0012	5/32"-B	0.1564 - 0.1574	3/16" x 6-3/4"	1	19/64" - 1-11/16"	\$55.00/PC
5000-0014	3/16"-B	0.1877 - 0.1887	3/16" x 6-3/4"	1	19/64" - 1-11/16"	\$55.00/PC
5000-0016	3/16"-C	0.1877 - 0.1887	3/8" x 11-3/4"	1	25/46" - 2-1/2"	\$61.00/PC
5000-0018	1/4"-C	0.2502 - 0.2512	3/8" x 11-3/4"	1	25/46" - 2-1/2"	\$61.00/PC
5000-0020	5/16"-C	0.3127 - 0.3137	3/8" x 11-3/4"	1	25/46" - 2-1/2"	\$61.00/PC
5000-0022	3/8"-C	0.3755 - 0.3765	3/8" x 11-3/4"	2	25/46" - 2-1/2"	\$61.00/PC
5000-0024	5/16"-D	0.3127 - 0.3137	9/16" x 13-7/8"	2	1-6"	\$128.00/PC
5000-0026	3/8"-D	0.3755 - 0.3765	9/16" x 13-7/8"	2	1-6"	\$128.00/PC
5000-0028	7/16"-D	0.4380 - 0.4390	9/16" x 13-7/8"	3	1-6"	\$128.00/PC
5000-0030	1/2"-D	0.5006 - 0.5016	9/16" x 13-7/8"	3	1-6"	\$128.00/PC
5000-0032	5/8"-E	0.6260 - 0.6270	3/4" x 15-1/2"	4	1-6"	\$189.00/PC
5000-0034	3/4"-E	0.7515 - 0.7525	3/4" x 15-1/2"	5	1-6"	\$189.00/PC
5000-0036	7/8"-F	0.8765 - 0.8775	1" x 20-1/4"	6	1-6"	\$458.00/PC
5000-0038	1"-F	1.0015 - 1.0020	1" x 20-1/4"	7	1-6"	\$458.00/PC
5000-0040	1-1/8"-F	1.1265 - 1.1275	1-1/8" x 20-1/4"	8	1-6"	\$768.00/PC
5000-0042	1-1/4"-F	1.2520 - 1.2530	1-1/4" x 20-1/4"	9	1-1/2" - 8"	\$768.00/PC
5001-0002	2mm-A	0.0782 - 0.0791	1/8" x 5"	0	13/64" - 1-1/8"	\$42.00/PC
5001-0004	3mm-A	0.1176 - 0.1185	1/8" x 5"	1	13/64" - 1-1/8"	\$42.00/PC
5001-0006	4mm-B	0.1569 - 0.1579	1/4" x 6-3/4"	1	19/64" - 1-11/16"	\$55.00/PC
5001-0008	5mm-B	0.1963 - 0.1972	1/4" x 6-3/4"	1	19/64" - 1-11/16"	\$55.00/PC
5001-0010	5mm-C	0.1963 - 0.1972	3/8" x 11-3/4"	1	25/46" - 2-1/2"	\$61.00/PC
5001-0012	6mm-C	0.2356 - 0.2366	3/8" x 11-3/4"	1	25/46" - 2-1/2"	\$61.00/PC
5001-0014	8mm-C	0.3143 - 0.3155	3/8" x 11-3/4"	2	25/46" - 2-1/2"	\$61.00/PC
5001-0016	10mm-D	0.3930 - 0.3942	9/16" x 13-7/8"	2	1-6"	\$128.00/PC
5001-0018	12mm-D	0.4716 - 0.4730	9/16" x 13-7/8"	2	1-6"	\$128.00/PC
5001-0020	14mm-D	0.5503 - 0.5517	9/16" x 13-7/8"	2	1-6"	\$128.00/PC
5001-0022	16mm-E	0.6290 - 0.6304	3/4" x 15-1/2"	3	1-6"	\$189.00/PC
5001-0024	18mm-E	0.7078 - 0.7092	3/4" x 15-1/2"	3	1-6"	\$189.00/PC
5001-0026	20mm-F	0.7864 - 0.7880	1" x 20-1/4"	3	1-6"	\$457.00/PC
5001-0028	22mm-F	0.8651 - 0.8667	1" x 20-1/4"	4	1-6"	\$457.00/PC
5001-0030	24mm-F	0.9434 - 0.9455	1" x 20-1/4"	5	1-6"	\$457.00/PC
5001-0032	25mm-F	0.9832 - 0.9848	1" x 20-1/4"	4	1-6"	\$457.00/PC

**4PC RIGHT-HAND CAMBRIDGE SCLCR INDEXABLE BORING BAR SET PLUS
14PCS CCMT32.51-P3 (#6200-1014) INSERTS FOR CUTTING STEEL**

GREAT **ISO9001**

Features:

- Extreme gloss finish.
- Utilizes 80° diamond CCMT inserts.
- Negative 5° end or side cutting angle.
- Bar hardness approx. 45 HRC.
- The insert is securely held with a Torx screw to reduce tool slipping.

Set includes:

- S08Q-SCLCR3, 1/2" shank with CCMT32.51-P3 carbide insert, CVD coated.
- S10R-SCLCR3, 5/8" shank with CCMT32.51-P3 carbide insert, CVD coated.
- S12S-SCLCR3, 3/4" shank with CCMT32.51-P3 carbide insert, CVD coated.
- S16T-SCLCR3, 1" shank with CCMT32.51-P3 carbide insert, CVD coated.
- 1pc Torx wrench.
- 10pcs CCMT32.51-P3 CVD coated carbide inserts #6200-1014.
- 4pcs extra Torx screws.
- 1pc aluminum fitted case.

Item #P252-S416
(CCMT)
\$315⁰⁰
set



**4PC RIGHT-HAND OXFORD SCLCR INDEXABLE BORING BAR SET PLUS
14PCS CCGT32.51-LH (#6600-0001) INSERTS FOR CUTTING ALUMINUM**

Features:

- Extreme gloss finish.
- Use CCGT32.51-LH insert, right-hand for cutting aluminum, 0.015" carbide insert.
- Bar hardness approx. 45 HRC.
- Uncoated inserts for machining of aluminum alloy, copper, brass & non-ferrous metal.
- Low cutting force due to sharp cutting edge and chip breaker.

Set includes:

- S08Q-SCLCR3, 1/2" shank with CCGT32.51-LH carbide insert.
- S10R-SCLCR3, 5/8" shank with CCGT32.51-LH carbide insert.
- S12S-SCLCR3, 3/4" shank with CCGT32.51-LH carbide insert.
- S16T-SCLCR3, 1" shank with CCGT32.51-LH carbide insert.
- 1pc Torx wrench.
- 10pcs CCGT32.51-LH carbide inserts for cutting aluminum #6600-0001.
- 4pcs extra Torx screws.
- 1pc aluminum fitted case.

Item #P252-S528
(CCGT)
\$315⁰⁰
set



4PC SCLCR INDEXABLE BORING BAR SET, WITHOUT INSERTS, WORKING WITH CCMT32.5 OR CCGT32.5 INSERTS

GREAT

Features:

- Comes with 4 boring bars, a wrench, and the screws.
- Works with CCMT32.5 & CCGT32.5 inserts of different coatings, e.g. TiN coated, CVD coated, PVD coated.
- Extreme gloss finish.
- Utilizes 80° diamond CCMT or CCGT inserts.
- Negative 5° end or side cutting angle.
- Bar hardness approx. 45 HRC.

Set includes:

- S08Q-SCLCR3, 1/2" shank without insert.
- S10R-SCLCR3, 5/8" shank without insert.
- S12S-SCLCR3, 3/4" shank without insert.
- S16T-SCLCR3, 1" shank without insert.
- 1pc Torx wrench.
- 4pcs extra Torx screws.
- 1pc aluminum fitted case.

Item #P252-S411
(CCMT or CCGT)
\$218⁰⁰
set



31PC INDEXABLE BORING BAR SET (nickel plated body)

ISO9001

Features:

- Extremely fine gloss finish
- Utilizes 80° diamond CCMT inserts
- Negative 5° end or side cutting angle
- Bar hardness approx. 45 HRC
- Each insert is securely held with a Torx screw to reduce tool slipping



Features:

- Small hole capacity: minimum of 0.430"
- Negative 3° end cutting edge for 7° positive triangle TCMT inserts
- Bar is made of heat-treated, precision ground alloy steel
- Each insert is securely held with a Torx screw to reduce tool slipping
- Positive insert allows for heavier cuts



31-pc set:

- 4pcs indexable boring bars(SCLCR)
- 1pc each of 3/8", 1/2", 5/8" & 3/4"
- 10pcs CCMT 21.5 TiN coated inserts
- 10pcs CCMT 32.5 TiN coated inserts
- 4pcs extra Torx screws
- 2pcs Torx wrenches
- 1pc aluminum fitted case



Item #P252-S410
(CCMT)
\$403⁰⁰
set

31-pc set:

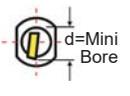
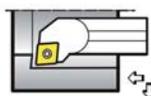
- 4pcs indexable boring bars(STUCR)
- 1pc each of 3/8", 1/2", 5/8" & 3/4"
- 10pcs TCMT 21.5 TiN coated inserts
- 10pcs TCMT 32.5 TiN coated inserts
- 4pcs extra Torx screws
- 2pcs Torx wrenches
- 1pc aluminum fitted case



Item #P252-S412
(TCMT)
\$403⁰⁰
set

SCLCR INDEXABLE BORING BAR (oxide finish body)

GREAT



Feature:

- Extremely fine gloss finish
- Utilizes 80° diamond CCMT or CCGT inserts
- Negative 5° end or side cutting angle
- Bar hardness approx. 45 HRC

P252-S408



P252-S503



SCLCR INDEXABLE BORING BAR CUTTING STEEL

Item	Model	Shank (D)	OAL (L)	F	Mini Bore (d)	Insert	Insert Screw	Price
P252-S401	S06M-SCLCR2	3/8"	6"	1/4"	1/2"	CCMT21.5	M2.5 x 5	\$39.00/PC
P252-S403	S08Q-SCLCR3	1/2"	7"	5/16"	5/8"	CCMT32.5	M4 x 8	\$42.00/PC
P252-S405	S10R-SCLCR3	5/8"	8"	13/32"	13/16"	CCMT32.5	M4 x 8	\$55.00/PC
P252-S407	S12S-SCLCR3	3/4"	10"	1/2"	1"	CCMT32.5	M4 x 8	\$64.00/PC
P252-S408	S16T-SCLCR3	1"	12"	0.651"	1-1/4"	CCMT32.5	M4 x 10	\$72.00/PC
P252-S409	S16T-SCLCR4	1"	12"	0.651"	1-1/4"	CCMT43	M5 x 10	\$72.00/PC
P252-S413	S20U-SCLCR4	1-1/4"	14"	7/8"	1-1/2"	CCMT43	M5 x 12	\$114.00/PC
P252-S415	S24U-SCLCR4	1-1/2"	14"	1-1/16"	2"	CCMT43	M5 x 12	\$161.00/PC

SCLCR INDEXABLE BORING BAR CUTTING ALUMINUM

Item	Model	Shank (D)	OAL (L)	F	Mini Bore (d)	Insert	Insert Screw	Price
P252-S501	S08Q-SCLCR3	1/2"	7"	5/16"	5/8"	CCGT32.5	M4 x 8	\$42.00/PC
P252-S503	S10R-SCLCR3	5/8"	8"	13/32"	13/16"	CCGT32.5	M4 x 8	\$55.00/PC
P252-S505	S12S-SCLCR3	3/4"	10"	1/2"	1"	CCGT32.5	M4 x 8	\$64.00/PC
P252-S507	S16T-SCLCR3	1"	12"	0.651"	1-1/4"	CCGT32.5	M4 x 10	\$70.00/PC

CARBIDE INSERT, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6100-1008	CCMT21.51	\$6.00/PC



CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6200-1008	CCMT21.51-P3	\$6.00/PC
6200-1014	CCMT32.51-P3	\$6.80/PC
6200-1016	CCMT32.52-P3	\$6.80/PC
6200-1020	CCMT432-P3	\$8.60/PC



6200-1014

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6600-1008	CCGT21.51-LH	\$6.00/PC
6600-0005	CCGT32.50-LH	\$6.50/PC
6600-0001	CCGT32.51-LH	\$6.50/PC
6600-0002	CCGT32.52-LH	\$6.50/PC
6600-0432	CCGT432-LH	\$7.50/PC



6600-0001

REPLACEMENT SCREWS

Item	Size	Price
0046-2505	M2.5 x 5	\$3.60/PC
0046-4008	M4 x 8	\$3.60/PC
0046-4010	M4 x 10	\$3.60/PC
0046-5010	M5 x 10	\$3.60/PC
0046-5012	M5 x 12	\$3.60/PC



0046-4010

SCLCR COOLANT THROUGH INDEXABLE BORING BAR

Right-Hand • CCMT 21.5 or 32.5 Insert, 7° Relief



Features:

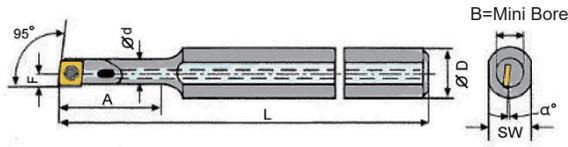
- Roughing or finishing in bores of small to medium size.
- General purpose fitted with rhomboidal positive inserts (80° angle) which are free cutting with strong cutting edges.
- The insert clamped securely in pocket directs cutting forces back into the insert.
- The bar coolant hole can be used to flush chips and cool the cutting edge zone.
- Each includes a CCMT21.5 or 32.5 TiN coated carbide insert and a key.
- Hardened nitride steel bars for long life.



2800-0039



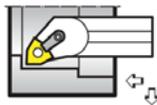
2800-0037



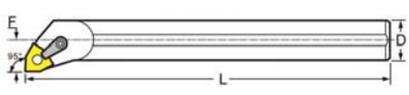
Item	Model	Shank (D)	OAL (L)	Neck Diameter (d)	A	α°	F	Mini Bore (B)	Insert	Insert Screw	Price
2800-0034	A05H-SCLCR2	5/16"	4.000"	0.276"	0.945"	15°	0.187"	0.315"	CCMT21.5	M2.5 x 5	\$54.00/PC
2800-0035	A06J-SCLCR2	3/8"	4.500"	0.336"	1.000"	13°	0.250"	0.480"	CCMT21.5	M2.5 x 5	\$54.00/PC
2800-0036	A08K-SCLCR3	1/2"	5.000"	0.461"	1.220"	10°	0.312"	0.600"	CCMT32.5	M4 x 8	\$64.00/PC
2800-0037	A10M-SCLCR3	5/8"	6.000"	0.586"	1.339"	7°	0.406"	0.770"	CCMT32.5	M4 x 8	\$64.00/PC
2800-0038	A12R-SCLCR3	3/4"	8.000"	0.712"	1.418"	7°	0.500"	0.930"	CCMT32.5	M4 x 8	\$73.00/PC
2800-0039	A16S-SCLCR3	1"	10.000"	0.961"	1.540"	3°	0.651"	1.300"	CCMT32.5	M4 x 10	\$88.00/PC

S-MWLN HEAVY-DUTY BORING BAR

(xide finish body)



0028-1972



0028-1969

Right-Hand Item	Left-Hand Item	Model	Shank (D)	OAL (L)	F	Mini Bore (d)	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Price
0028-1969	0028-1774	S12S-MWLN R/L-4	3/4"	10"	1/2"	1"	WNMG43	-	ZX613	CK232	SD6 x 20	\$76.00/PC
0028-1970	0028-1973	S16T-MWLN R/L-4	1"	12"	0.651"	1-1/4"	WNMG43	-	ZX613	CK232	SD6 x 20	\$95.00/PC
0028-1971	0028-1974	S20U-MWLN R/L-4	1-1/4"	14"	7/8"	1-1/2"	WNMG43	W08B	ZX617	YB1814	SD6 x 25	\$132.00/PC
0028-1972	0028-1976	S24U-MWLN R/L-4	1-1/2"	14"	1-1/16"	2"	WNMG43	W08B	ZX617	YB1814	SD6 x 25	\$171.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6100-1008	CCMT21.51	\$6.00/PC
6133-1022	WNMG432	\$8.00/PC



REPLACEMENT SCREWS

Item	Size	Price
0046-2505	M2.5 x 5	\$3.60/PC
0046-4008	M4 x 8	\$3.60/PC
0046-4010	M4 x 10	\$3.60/PC



CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6200-1008	CCMT21.51-P3	\$6.00/PC
6200-1014	CCMT32.51-P3	\$6.80/PC
6200-1016	CCMT32.52-P3	\$6.80/PC
6233-1022	WNMG432-P3	\$8.00/PC



REPLACEMENT LOCKING PINS

Item	Size	Price
0028-0613	ZX613	\$6.40/PC
0028-0617	ZX617	\$6.40/PC



CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6600-1008	CCGT21.51-LH	\$6.00/PC
6600-0005	CCGT32.50-LH	\$6.50/PC
6600-0001	CCGT32.51-LH	\$6.50/PC
6600-0002	CCGT32.52-LH	\$6.50/PC



REPLACEMENT CARBIDE CLAMPS

Item	Size	Price
0028-0232	CK232	\$7.50/PC
0028-1814	YB1814	\$7.50/PC



REPLACEMENT CLAMP SCREWS

Item	Size	Price
0028-0620	SD6 x 20	\$4.20/PC
0028-0625	SD6 x 25	\$4.20/PC



4PC INDEXABLE STUBBY LENGTH BORING BAR SET

Features:

- Initially designed for the Criterion Boring Head, this TAS-model set can be used on manual and CNC lathes, equally adaptable in machines on which the tool or the workpiece turns.
- Boring tool sets featuring TCMT style inserts are available in 3/4" and 1" diameter shanks.

Set includes:

- 4pcs indexable stubby length boring bars
- 4pcs TiN coated carbide inserts
- 4pcs extra Torx screws
- 2pcs Torx wrenches
- 1pc aluminum fitted case



GREAT
ISO9001



EJ99-2182

Item	Model	Shank Dia	Mini Bore	Max. Bore	OAL	Insert	Insert Screw	Price
EJ99-2180	TAS-500 DTX	3/4"	1/2"	1-5/16"	2-15/16"	TCMT21.5	M2.5 x 6	\$150.00/SET
	TAS-750 DTX	3/4"	3/4"	1-17/32"	3-5/32"	TCMT32.5	M4 x 8	
	TAS-1000 DTX	3/4"	1"	1-3/4"	3-3/8"	TCMT32.5	M4 x 8	
	TAS-1250 DTX	3/4"	1-1/4"	1-31/32"	3-19/32"	TCMT32.5	M4 x 8	
EJ99-2182	TAS-500 ETX	1"	1/2"	1-5/16"	2-15/16"	TCMT21.5	M2.5 x 6	\$182.00/SET
	TAS-750 ETX	1"	3/4"	1-17/32"	3-5/32"	TCMT32.5	M4 x 8	
	TAS-1000 ETX	1"	1"	1-3/4"	3-3/8"	TCMT32.5	M4 x 8	
	TAS-1250 ETX	1"	1-1/4"	1-31/32"	3-19/32"	TCMT32.5	M4 x 8	

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6124-1028	TCMT21.51	\$6.60/PC
6124-1034	TCMT32.51	\$7.50/PC



REPLACEMENT SCREWS

Item	Size	Price
0046-2506	M2.5 x 6	\$3.60/PC
0046-4008	M4 x 8	\$3.60/PC



CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6224-1028	TCMT21.51-P3	\$6.60/PC
6224-1034	TCMT32.51-P3	\$7.50/PC



CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6624-1024	TCGT21.51-LH	\$6.60/PC
6624-1034	TCGT32.51-LH	\$7.80/PC



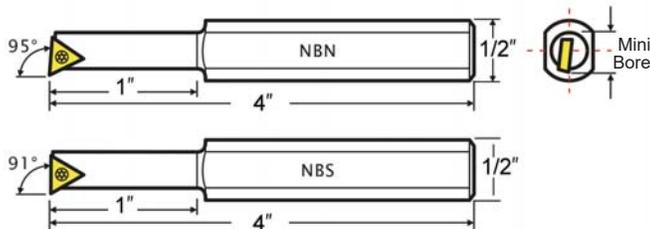
4PC INDEXABLE MINI BORING BAR SET

Features:

- Minimum bore diameters range from 0.286" to 0.314"
- Choose either 95° or 91° entry angles

Set includes:

- 4pcs indexable mini boring bars
- 4pcs TiN coated carbide inserts
- 4pcs extra Torx screws
- 1pc Torx wrench
- 1pc Rose-plastic fitted case



Item	Model	Shank Dia	L1	OAL	Enter Angle	Mini Bore	Insert	Insert Screw	Price
EJ99-2178	NBN652	1/2"	1"	4"	95°	0.286"	TCMT520	M2 x 3	\$132.00/SET
	NBS652	1/2"	1"	4"	91°	0.286"	TCMT520	M2 x 3	
	NBN653	1/2"	1"	4"	95°	0.314"	TCMT520	M2 x 3	
	NBS653	1/2"	1"	4"	91°	0.314"	TCMT520	M2 x 3	

CARBIDE INSERT, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6124-1100	TCMT520	\$9.50/PC



CARBIDE INSERT, FOR CUTTING ALUMINUM

Item	Size	Price
6624-1100	TCGT520-LH	\$9.50/PC



REPLACEMENT SCREW

Item	Size	Price
0046-2003	M2 x 3	\$3.60/PC

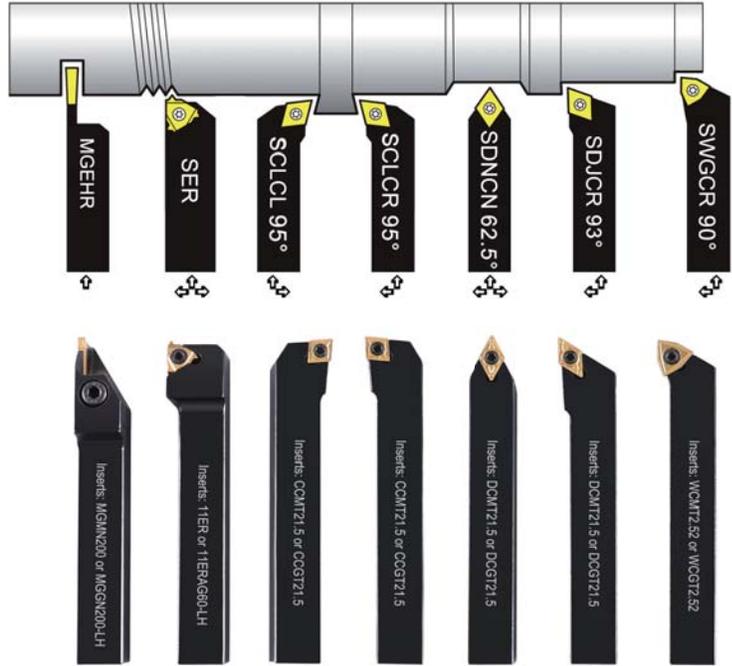


7PC INDEXABLE CARBIDE TURNING TOOL SET

Features:

- Black oxide smooth finish on each turning tool holder marked with the designation and shank size
- Each tool holder comes with a C6 TiN coated carbide insert with a positive rake cutting angle and built-in chip breaker, great for general purpose cutting applications

ISO9001



Set includes:

- 7pcs indexable turning tool holders
- 7pcs C6 TiN coated carbide inserts
- 7pcs extra screws
- Free keys
- In a fitted aluminum case

2387-2004

Item	Shank Size	Tool Holder	Tool Holder Size	OAL	Insert	Insert Screw	Price
2387-2001	1/4"	MGEHR04-2	1/4" x 3/8"	3"	MG200	M4 x 10	\$174.00/SET
		SER0250-08	1/4" x 5/16"	3"	08ER	M2.2 x 6	
		SWGCR04-2	1/4" x 3/8"	3"	WCMT2.52	M3 x 6	
		SCLCR04-2	1/4" x 5/16"	3"	CCMT21.5	M2.5 x 6	
		SCLCL04-2	1/4" x 5/16"	3"	CCMT21.5	M2.5 x 6	
		SDNCN04-2	1/4" x 5/16"	3"	DCMT21.5	M2.5 x 6	
		SDJCR04-2	1/4" x 5/16"	3"	DCMT21.5	M2.5 x 6	
2387-2003	3/8"	MGEHR06-2J	3/8" x 3/8"	3-1/2"	MG200	M4 x 10	\$196.00/SET
		SER0375J11	3/8" x 3/8"	3-1/2"	11ER	M3 x 8	
		SWGCR06-2J	3/8" x 3/8"	3-1/2"	WCMT2.52	M3 x 8	
		SCLCR06-2J	3/8" x 3/8"	3-1/2"	CCMT21.5	M2.5 x 8	
		SCLCL06-2J	3/8" x 3/8"	3-1/2"	CCMT21.5	M2.5 x 8	
		SDNCN06-2J	3/8" x 3/8"	3-1/2"	DCMT21.5	M2.5 x 8	
		SDJCR06-2J	3/8" x 3/8"	3-1/2"	DCMT21.5	M2.5 x 8	
2387-2004	1/2"	MGEHR08-2J	1/2" x 1/2"	3-1/2"	MG200	M4 x 10	\$198.00/SET
		SER0500J11	1/2" x 1/2"	3-1/2"	11ER	M3 x 8	
		SWGCR08-2J	1/2" x 1/2"	3-1/2"	WCMT2.52	M3 x 8	
		SCLCR08-2J	1/2" x 1/2"	3-1/2"	CCMT21.5	M2.5 x 8	
		SCLCL08-2J	1/2" x 1/2"	3-1/2"	CCMT21.5	M2.5 x 8	
		SDNCN08-2J	1/2" x 1/2"	3-1/2"	DCMT21.5	M2.5 x 8	
		SDJCR08-2J	1/2" x 1/2"	3-1/2"	DCMT21.5	M2.5 x 8	
2387-2005	5/8"	MGEHR10-3B	5/8" x 5/8"	4-1/2"	MG300	M5 x 12	\$278.00/SET
		SER0625B16	5/8" x 5/8"	4-1/2"	16ER	M3.5 x 12	
		SWGCR10-3B	5/8" x 5/8"	4-1/2"	WCMT32.5	M4 x 12	
		SCLCR10-3B	5/8" x 5/8"	4-1/2"	CCMT32.5	M4 x 12	
		SCLCL10-3B	5/8" x 5/8"	4-1/2"	CCMT32.5	M4 x 12	
		SDNCN10-3B	5/8" x 5/8"	4-1/2"	DCMT32.5	M4 x 12	
		SDJCR10-3B	5/8" x 5/8"	4-1/2"	DCMT32.5	M4 x 12	
2387-2006	3/4"	MGEHR12-3B	3/4" x 3/4"	4-1/2"	MG300	M5 x 14	\$285.00/SET
		SER0750B16	3/4" x 3/4"	4-1/2"	16ER	M3.5 x 12	
		SWGCR12-3B	3/4" x 3/4"	4-1/2"	WCMT32.5	M4 x 12	
		SCLCR12-3B	3/4" x 3/4"	4-1/2"	CCMT32.5	M4 x 12	
		SCLCL12-3B	3/4" x 3/4"	4-1/2"	CCMT32.5	M4 x 12	
		SDNCN12-3B	3/4" x 3/4"	4-1/2"	DCMT32.5	M4 x 12	
		SDJCR12-3B	3/4" x 3/4"	4-1/2"	DCMT32.5	M4 x 12	

REPLACE INSERTS SET FOR CUTTING STEEL (10pcs/set)



Item	Description	Price
2387-2001INSERTS	Each 2pcs MGMN200 #6103-4022, 08ER A60 #6152-0860, WCMT2.52 #6139-1020, CCMT21.51 #6200-1008 (or #6100-1008), DCMT21.51 #6104-1010	\$73.00/SET
2387-2003INSERTS	Each 2pcs MGMN200 #6103-4022, 11ER A60 #6152-0015, WCMT2.52 #6139-1020, CCMT21.51 #6200-1008 (or #6100-1008), DCMT21.51 #6104-1010	\$70.00/SET
2387-2004INSERTS	The same as the item 2387-2003INSERTS	\$70.00/SET
2387-2005INSERTS	Each 2pcs MGMN300 #6103-4026, 16ER AG60 #6152-0025, WCMT32.51 #6139-1024, CCMT32.51-P3 #6200-1014, DCMT32.51 #6104-1014	\$75.00/SET
2387-2006INSERTS	The same as the item 2387-2005INSERTS	\$75.00/SET

CARBIDE INSERTS FOR #2387-2001 FOR CUTTING STEEL

Item	Description	Price
6103-4022	MGMN200, TiN coated for MGEHR04-2	\$6.60/PC
6152-0860	08ER A60, TiN coated for SER0250-08	\$14.20/PC
6139-1020	WCMT2.52, TiN coated for SWGCR04-2	\$6.60/PC
6200-1008 (or 6100-1008)	{ CCMT21.51, CVD coated (or TiN coated) for SCLCR04-2 CCMT21.51, CVD coated (or TiN coated) for SCLCL04-2	\$6.00/PC
6104-1010	{ DCMT21.51, TiN coated for SDNCN04-2 DCMT21.51, TiN coated for SDJCR04-2	\$7.20/PC



2387-2003INSERTS

CARBIDE INSERTS FOR #2387-2003 FOR CUTTING STEEL

Item	Description	Price
6103-4022	MGMN200, TiN coated for MGEHR06-2J	\$6.60/PC
6152-0015	11ER A60, TiN coated for SER0375J11	\$9.90/PC
6139-1020	WCMT2.52, TiN coated for SWGCR06-2J	\$6.60/PC
6200-1008 (or 6100-1008)	{ CCMT21.51, CVD coated (or TiN coated) for SCLCR06-2J CCMT21.51, CVD coated (or TiN coated) for SCLCL06-2J	\$6.00/PC
6104-1010	{ DCMT21.51, TiN coated for SDNCN06-2J DCMT21.51, TiN coated for SDJCR06-2J	\$7.20/PC

CARBIDE INSERTS FOR #2387-2003 FOR CUTTING ALUMINUM

Item	Description	Price
6603-4023	MGMN200-LH, Uncoated for MGEHR06-2J	\$6.00/PC
6600-0015	11ER A60-LH, Uncoated for SER0375J11	\$9.90/PC
6639-1020	WCGT2.522-AF, Uncoated for SWGCR06-2J	\$9.90/PC
6600-1008	{ CCGT21.51-LH, Uncoated for SCLCR06-2J CCGT21.51-LH, Uncoated for SCLCL06-2J	\$6.00/PC
6604-1010	{ DCGT21.51-LH, Uncoated for SDNCN06-2J DCGT21.51-LH, Uncoated for SDJCR06-2J	\$6.00/PC

CARBIDE INSERTS FOR #2387-2004 FOR CUTTING STEEL

Item	Description	Price
6103-4022	MGMN200, TiN coated for MGEHR08-2J	\$6.60/PC
6152-0015	11ER A60, TiN coated for SER0500J11	\$9.90/PC
6139-1020	WCMT2.52, TiN coated for SWGCR08-2J	\$6.60/PC
6200-1008 (or 6100-1008)	{ CCMT21.51, CVD coated (or TiN coated) for SCLCR08-2J CCMT21.51, CVD coated (or TiN coated) for SCLCL08-2J	\$6.00/PC
6104-1010	{ DCMT21.51, TiN coated for SDNCN08-2J DCMT21.51, TiN coated for SDJCR08-2J	\$7.20/PC

CARBIDE INSERTS FOR #2387-2004 FOR CUTTING ALUMINUM

Item	Description	Price
6603-4023	MGMN200-LH, Uncoated for MGEHR08-2J	\$6.00/PC
6600-0015	11ER A60-LH, Uncoated for SER0500J11	\$9.90/PC
6639-1020	WCGT2.522-AF, Uncoated for SWGCR08-2J	\$9.90/PC
6600-1008	{ CCGT21.51-LH, Uncoated for SCLCR08-2J CCGT21.51-LH, Uncoated for SCLCL08-2J	\$6.00/PC
6604-1010	{ DCGT21.51-LH, Uncoated for SDNCN08-2J DCGT21.51-LH, Uncoated for SDJCR08-2J	\$6.00/PC

CARBIDE INSERTS FOR #2387-2005 FOR CUTTING STEEL

Item	Description	Price
6103-4026	MGMN300, TiN coated for MGEHR10-3B	\$6.60/PC
6152-0025	16ER AG60, TiN coated for SER0625B16	\$9.90/PC
6139-1024	WCMT32.51, TiN coated for SWGCR10-3B	\$6.60/PC
6200-1014	{ CCMT32.51-P3, CVD coated for SCLCR10-3B CCMT32.51-P3, CVD coated for SCLCL10-3B	\$6.80/PC
6104-1014	{ DCMT32.51, TiN coated for SDNCN10-3B DCMT32.51, TiN coated for SDJCR10-3B	\$7.60/PC

CARBIDE INSERTS FOR #2387-2005 FOR CUTTING ALUMINUM

Item	Description	Price
6603-4027	MGMN300-LH, Uncoated for MGEHR10-3B	\$6.60/PC
6600-0025	16ER AG60-LH, Uncoated for SER0625B16	\$9.90/PC
6639-1024	WCGT32.52-AF, Uncoated for SWGCR10-3B	\$9.90/PC
6600-0001	{ CCGT32.51-LH, Uncoated for SCLCR10-3B CCGT32.51-LH, Uncoated for SCLCL10-3B	\$6.50/PC
6604-1014	{ DCGT32.51-LH, Uncoated for SDNCN10-3B DCGT32.51-LH, Uncoated for SDJCR10-3B	\$6.00/PC

CARBIDE INSERTS FOR #2387-2006 FOR CUTTING STEEL

Item	Description	Price
6103-4026	MGMN300, TiN coated for MGEHR12-3B	\$6.60/PC
6152-0025	16ER AG60, TiN coated for SER0750B16	\$9.90/PC
6139-1024	WCMT 32.51, TiN coated for SWGCR12-3B	\$6.60/PC
6200-1014	{ CCMT32.51-P3, CVD coated for SCLCR12-3B CCMT32.51-P3, CVD coated for SCLCL12-3B	\$6.80/PC
6104-1014	{ DCMT32.51, TiN coated for SDNCN12-3B DCMT32.51, TiN coated for SDJCR12-3B	\$7.60/PC

CARBIDE INSERTS FOR #2387-2006 FOR CUTTING ALUMINUM

Item	Description	Price
6603-4027	MGMN300-LH, Uncoated for MGEHR12-3B	\$6.60/PC
6600-0025	16ER AG60-LH, Uncoated for SER0750B16	\$9.90/PC
6639-1024	WCGT32.52-AF, Uncoated for SWGCR12-3B	\$9.90/PC
6600-0001	{ CCGT32.51-LH, Uncoated for SCLCR12-3B CCGT32.51-LH, Uncoated for SCLCL12-3B	\$6.50/PC
6604-1014	{ DCGT32.51-LH, Uncoated for SDNCN12-3B DCGT32.51-LH, Uncoated for SDJCR12-3B	\$6.00/PC

5/8" + 10PC INSERTS COMBINATION (2387-2005INSERTS)

ISO9001



- Set includes:
- 7pcs 5/8" toolholders: each 1pc MGEHR10-3B, SER0625B16, SWGCR10-3B, SCLCR10-3B, SCLCL10-3B, SDNCN10-3B, & SDJCR10-3B
 - Additional 10pcs TiN coated carbide inserts: each 2pcs MGMN300, 16ER AG60, WCMT32.51, CCMT32.51, & DCMT32.51
 - 7pcs extra screws
 - 1pc stainless steel rigid ruler, 6" 4R
 - Free keys
 - In a fitted aluminum case



Item #2387-2005PLUS
\$340⁰⁰/set

1/4" + 10PC INSERTS COMBINATION (2387-2001INSERTS)

- Set includes:
- 7pcs 1/4" toolholders: each 1pc MGEHR04-2, SER0250-08, SWGCR04-2, SCLCR04-2, SCLCL04-2, SDNCN04-2, & SDJCR04-2
 - Additional 10pcs TiN coated carbide inserts: each 2pcs MGMN200, 08ER A60, WCMT2.52, CCMT21.51, & DCMT21.51
 - 7pcs extra screws
 - 1pc stainless steel rigid ruler, 6" 4R
 - Free keys
 - In a fitted aluminum case



Item #2387-2001PLUS
\$248.00/SET

3/8" + 10PC INSERTS COMBINATION (2387-2003INSERTS)

- Set includes:
- 7pcs 3/8" toolholders: each 1pc MGEHR06-2J, SER0375J11, SWGCR06-2J, SCLCR06-2J, SCLCL06-2J, SDNCN06-2J, & SDJCR06-2J
 - Additional 10pcs TiN coated carbide inserts: each 2pcs MGMN200, 11ER A60, WCMT2.52, CCMT21.51, & DCMT21.51
 - 7pcs extra screws
 - 1pc stainless steel rigid ruler, 6" 4R
 - Free keys
 - In a fitted aluminum case



Item #2387-2003PLUS
\$252.00/SET

1/2" + 10PC INSERTS COMBINATION (2387-2004INSERTS)

GREAT

- Set includes:
- 7pcs 1/2" toolholders: each 1pc MGEHR08-2J, SER0500J11, SWGCR08-2J, SCLCR08-2J, SCLCL08-2J, SDNCN08-2J, & SDJCR08-2J
 - Additional 10pcs TiN coated carbide inserts: each 2pcs MGMN200, 11ER A60, WCMT2.52, CCMT21.51, & DCMT21.51
 - 7pcs extra screws
 - 1pc stainless steel rigid ruler, 6" 4R
 - Free keys
 - In a fitted aluminum case



Item #2387-2004PLUS
\$259.00/SET

3/4" + 10PC INSERTS COMBINATION (2387-2006INSERTS)

- Set includes:
- 7pcs 3/4" toolholders: each 1pc MGEHR12-3B, SER0750B16, SWGCR12-3B, SCLCR12-3B, SCLCL12-3B, SDNCN12-3B, & SDJCR12-3B
 - Additional 10pcs TiN coated carbide inserts: each 2pcs MGMN300, 16ER AG60, WCMT32.51, CCMT32.51, & DCMT32.51
 - 7pcs extra screws
 - 1pc stainless steel rigid ruler, 6" 4R
 - Free keys
 - In a fitted aluminum case



Item #2387-2006PLUS
\$350.00/SET

7PC REPLACEMENT SCREWS SET (For 7pc Indexable Carbide Turning Tool Set)

Item	Description	Price
2387-2001PIN	Each 1pc M2.2 x 6, M3 x 6 & M4 x 10, & 4pcs M2.5 x 6	\$20.00/SET
2387-2003PIN	Each 1pc M4 x 10, 2pcs M3 x 8, & 4pcs M2.5 x 8	\$20.00/SET
2387-2004PIN	Each 1pc M4 x 10, 2pcs M3 x 8, & 4pcs M2.5 x 8	\$20.00/SET
2387-2005PIN	Each 1pc M3.5 x 12 & M5 x 12, & 5pcs M4 x 12	\$20.00/SET
2387-2006PIN	Each 1pc M3.5 x 12 & M5 x 14, & 5pcs M4 x 12	\$20.00/SET

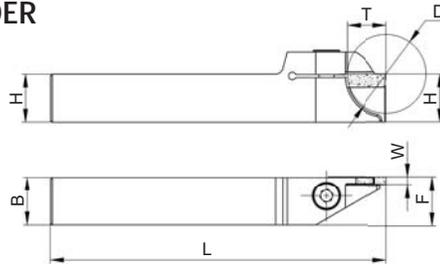


2387-2005PIN

MGEHR CUT-OFF TOOL HOLDER

Features:

- Right-hand
- Specially designed for cutting or in a certain range of diameters material cut-off and design
- Inserts not included
Uses MGMN / MGGN carbide inserts (sold separately)



2387-0005

Item	Shank Size	Tool Holder	Tool Holder Size (H x B)	OAL (L)	Insert	Insert Screw	F	T	W	Maximum Depth (D)	Price
2387-0001	1/4"	MGEHR04-2	1/4" x 3/8"	3"	MGMN200	M4 x 10	0.383"	0.295"	0.079"	0.295"	\$25.00/PC
2387-0003	3/8"	MGEHR06-2J	3/8" x 3/8"	3-1/2"	MGMN200	M4 x 10	0.383"	0.295"	0.079"	0.295"	\$26.00/PC
2387-0004	1/2"	MGEHR08-2J	1/2" x 1/2"	3-1/2"	MGMN200	M4 x 10	0.508"	0.433"	0.079"	0.433"	\$26.00/PC
2387-0005	5/8"	MGEHR10-3B	5/8" x 5/8"	4-1/2"	MGMN300	M5 x 12	0.637"	0.512"	0.118"	0.512"	\$36.00/PC
2387-0006	3/4"	MGEHR12-3B	3/4" x 3/4"	4-1/2"	MGMN300	M5 x 14	0.762"	0.689"	0.118"	0.689"	\$43.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6103-4022	MGMN200	\$6.60/PC
6103-4026	MGMN300	\$6.60/PC



6603-4026

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6603-4023	MGGN200-LH	\$6.00/PC
6603-4027	MGGN300-LH	\$6.60/PC



6603-4023

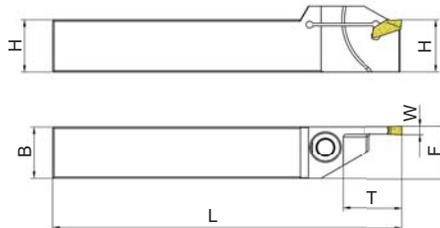
HEAVY-DUTY INDEXABLE GROOVING & CUT-OFF HOLDER, RIGHT-HAND

(nickel plated body)



Features:

- For shallow precision grooving and profile/copy turning.
- O-ring, snap-ring, relief grooving and high production.
- Opening of wide grooves by plunging and side turning.
- Precision clamping and insert indexing accuracy.
- Stable under side cutting forces when profile turning.
- Maximum stability due to short overhang.



2415-5030

Item	Shank Size	Tool Holder	Tool Holder Size (H x B)	OAL (L)	Insert	Insert Screw	F	T	W	Maximum Depth	Price
2415-5022	3/8"	QA06R-20J	1/2 x 3/8"	3-1/2"	GTN-2	M4 x 10	0.508"	0.630"	0.079"	0.630"	\$43.00/PC
2415-5024	1/2"	QA08R-20B	1/2 x 1/2"	4-1/2"	GTN-2	M4 x 10	0.508"	0.669"	0.079"	0.669"	\$43.00/PC
2415-5028	5/8"	QA10R-30B	5/8 x 5/8"	4-1/2"	GTN-3	M5 x 12	0.630"	0.728"	0.118"	0.728"	\$54.00/PC
2415-5030	3/4"	QA12R-30C	3/4 x 3/4"	5"	GTN-3	M6 x 16	0.762"	0.866"	0.118"	0.866"	\$65.00/PC
2415-5036	1"	QA16R-40D	1 x 1"	6"	GTN-4	M6 x 20	1.012"	1"	0.157"	1"	\$76.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6103-2002	GTN-2	\$6.60/PC
6103-2003	GTN-3	\$6.60/PC
6103-2004	GTN-4	\$6.60/PC



6103-2003

CARBIDE INSERTS, PVD COATED, FOR CUTTING STAINLESS STEEL

Item	Size	Price
6803-6002	GTN-2	\$6.60/PC
6803-6003	GTN-3	\$6.60/PC
6803-6004	GTN-4	\$7.00/PC



6803-6003

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6603-8002	GTN-2LH	\$6.60/PC
6603-8003	GTN-3LH	\$6.60/PC
6603-8004	GTN-4LH	\$7.00/PC



6603-8003

REPLACEMENT SCREWS

Item	Size	Price
0047-4010	M4 x 10	\$3.60/PC
0047-6016	M6 x 16	\$3.60/PC
0047-6020	M6 x 20	\$3.60/PC



0047-4010

9PC INDEXABLE CARBIDE TURNING TOOL AND BORING BAR SET

GREAT ISO9001



2988-0038

Features:

- The material of the holder is upgraded, more rigid, with better cutting stability and better resistance against wearing.
- Smooth finish on each turning tool holder marked with tool holder style and shank size.
- Each tool holder comes with a C6 TiN coated carbide insert with a positive rake cutting angle and built-in chip breaker, great for general purpose cutting actions.

Set includes:

- 9pcs indexable turning tool holders.
- 9pcs C6 TiN coated carbide inserts.
- 9pcs extra screws.
- Free keys.
- In a fitted aluminum case.



Item	Shank Size	Tool Holder	Tool Holder Size	OAL	Mini Bore	Insert	Insert Screw	Price
2988-0038	3/8"	QA06R-20J	1/2 x 3/8"	3-1/2"	—	GTN-2	M4 x 10	\$258.00/SET
		SER0375J11	3/8 x 3/8"	3-1/2"	—	11ER	M2.5 x 8	
		SCLCR06-2J	3/8 x 3/8"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		SCLCL06-2J	3/8 x 3/8"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		SDNCN06-2J	3/8 x 3/8"	3-1/2"	—	DCMT21.5	M2.5 x 6	
		SWGCR06-2J	3/8 x 3/8"	3-1/2"	—	WCMT2.52	M3 x 6	
		SCDCR06-2J	3/8 x 3/8"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		SCBCR06-2J	3/8 x 3/8"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		S06M-SCLCR2	3/8"	6"	1/2"	CCMT21.5	M2.5 x 6	
2988-0012	1/2"	QA08R-20B	1/2 x 1/2"	4-1/2"	—	GTN-2	M4 x 10	\$263.00/SET
		SER0500J11	1/2 x 1/2"	3-1/2"	—	11ER	M2.5 x 8	
		SCLCR08-2J	1/2 x 1/2"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		SCLCL08-2J	1/2 x 1/2"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		SDNCN08-2J	1/2 x 1/2"	3-1/2"	—	DCMT21.5	M2.5 x 6	
		SWGCR08-2J	1/2 x 1/2"	3-1/2"	—	WCMT2.52	M3 x 6	
		SCDCR08-2J	1/2 x 1/2"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		SCBCR08-2J	1/2 x 1/2"	3-1/2"	—	CCMT21.5	M2.5 x 6	
		S08Q-SCLCR2	1/2"	7"	5/8"	CCMT21.5	M2.5 x 6	
2988-0058	5/8"	QA10R-30B	5/8 x 5/8"	4-1/2"	—	GTN-3	M5 x 12	\$315.00/SET
		SER0625B16	5/8 x 5/8"	4-1/2"	—	16ER	M3.5 x 11	
		SCLCR10-3B	5/8 x 5/8"	4-1/2"	—	CCMT32.5	M4 x 12	
		SCLCL10-3B	5/8 x 5/8"	4-1/2"	—	CCMT32.5	M4 x 12	
		SDNCN10-3B	5/8 x 5/8"	4-1/2"	—	DCMT32.5	M4 x 12	
		SWGCR10-3B	5/8 x 5/8"	4-1/2"	—	WCMT32.5	M4 x 12	
		SCDCR10-3B	5/8 x 5/8"	4-1/2"	—	CCMT32.5	M4 x 12	
		SCBCR10-3B	5/8 x 5/8"	4-1/2"	—	CCMT32.5	M4 x 12	
		S10R-SCLCR3	5/8"	8"	13/16"	CCMT32.5	M4 x 8	
2988-0034	3/4"	QA12R-30C	3/4 x 3/4"	5"	—	GTN-3	M6 x 16	\$362.00/SET
		SER0750B16	3/4 x 3/4"	4-1/2"	—	16ER	M3.5 x 11	
		SCLCR12-3B	3/4 x 3/4"	4-1/2"	—	CCMT32.5	M4 x 12	
		SCLCL12-3B	3/4 x 3/4"	4-1/2"	—	CCMT32.5	M4 x 12	
		SDNCN12-3B	3/4 x 3/4"	4-1/2"	—	DCMT32.5	M4 x 12	
		SWGCR12-3B	3/4 x 3/4"	4-1/2"	—	WCMT32.5	M4 x 12	
		SCDCR12-3B	3/4 x 3/4"	4-1/2"	—	CCMT32.5	M4 x 12	
		SCBCR12-3B	3/4 x 3/4"	4-1/2"	—	CCMT32.5	M4 x 12	
		S12S-SCLCR3	3/4"	10"	1"	CCMT32.5	M4 x 8	
2988-0001	1"	QA16R-40D	1 x 1"	6"	—	GTN-4	M6 x 20	\$468.00/SET
		SER1000D16	1 x 1"	6"	—	16ER	M3.5 x 11	
		SCLCR16-4D	1 x 1"	6"	—	CCMT43	M5 x 12	
		SCLCL16-4D	1 x 1"	6"	—	CCMT43	M5 x 12	
		SDNCN16-3D	1 x 1"	6"	—	DCMT32.5	M4 x 12	
		SWGCR16-4D	1 x 1"	6"	—	WCMT43	M4 x 12	
		SCDCR16-4D	1 x 1"	6"	—	CCMT43	M5 x 12	
		SCBCR16-4D	1 x 1"	6"	—	CCMT43	M5 x 12	
		S16T-SCLCR4	1"	12"	1-1/4"	CCMT43	M5 x 12	

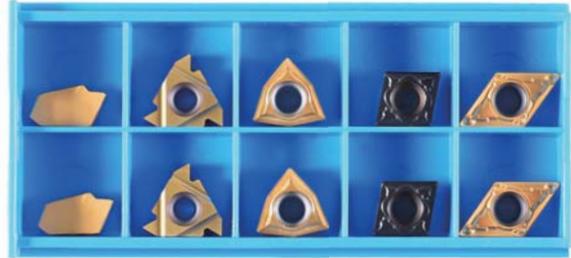
REPLACE INSERTS SET FOR CUTTING STEEL (10pcs/set)

GREAT

Item	Description	Price
2988-0038INSERTS	Each 2pcs GTN-2 #6103-2002, 11ER A60 #6152-0015, WCMT2.52 #6139-1020, CCMT21.51 #6200-1008 (or #6100-1008), DCMT21.51 #6104-1010	\$66.00/SET
2988-0012INSERTS	The same as the item 2988-0038INSERTS	\$66.00/SET
2988-0058INSERTS	Each 2pcs GTN-3 #6103-2003, 16ER AG60 #6152-0025, WCMT32.51 #6139-1024, CCMT32.51-P3 #6200-1014, DCMT32.51 #6104-1014	\$66.00/SET
2988-0034INSERTS	The same as the item 2988-0058INSERTS	\$66.00/SET
2988-0001INSERTS	Each 2pcs GTN-4 #6103-2004, 16ER AG60 #6152-0025, WCMT433 #6139-1030, CCMT432-P3 #6200-1020, DCMT32.51 #6104-1014	\$76.00/SET

CARBIDE INSERTS FOR #2988-0038 FOR CUTTING STEEL

Item	Description	Price
6103-2002	GTN-2, TiN coated for QA06R-20J	\$6.60/PC
6152-0015	11ER A60, TiN coated for SER0375J11	\$9.90/PC
6104-1010	DCMT21.51, TiN coated for SDNCN06-2J	\$7.20/PC
6200-1008 or (6100-1008)	<ul style="list-style-type: none"> CCMT21.51, CVD coated (or TiN coated) for SCLCR06-2J CCMT21.51, CVD coated (or TiN coated) for SCLCL06-2J CCMT21.51, CVD coated (or TiN coated) for SCDRCR06-2J CCMT21.51, CVD coated (or TiN coated) for SCBCR06-2J CCMT21.51, CVD coated (or TiN coated) for S06M-SCLCR2 	\$6.00/PC
6139-1020	WCMT2.52, TiN coated for SWGCR06-2J	\$6.60/PC



2988-0058INSERTS

CARBIDE INSERTS FOR #2988-0012 FOR CUTTING STEEL

Item	Description	Price
6103-2002	GTN-2, TiN coated for QA08R-20B	\$6.60/PC
6152-0015	11ER A60, TiN coated for SER0500J11	\$9.90/PC
6104-1010	DCMT21.51, TiN coated for SDNCN08-2J	\$7.20/PC
6200-1008 or (6100-1008)	<ul style="list-style-type: none"> CCMT21.51, CVD coated (or TiN coated) for SCLCR08-2J CCMT21.51, CVD coated (or TiN coated) for SCLCL08-2J CCMT21.51, CVD coated (or TiN coated) for SCDRCR08-2J CCMT21.51, CVD coated (or TiN coated) for SCBCR08-2J CCMT21.51, CVD coated (or TiN coated) for S08Q-SCLCR2 	\$6.00/PC
6139-1020	WCMT2.52, TiN coated for SWGCR08-2J	\$6.60/PC

CARBIDE INSERTS FOR #2988-0034 FOR CUTTING STEEL

Item	Description	Price
6103-2003	GTN-3, TiN coated for QA12R-30C	\$6.60/PC
6152-0025	16ER AG60, TiN coated for SER0750B16	\$9.90/PC
6104-1014	DCMT32.51, TiN coated for SDNCN12-3B	\$7.60/PC
6200-1014	<ul style="list-style-type: none"> CCMT32.51-P3, CVD coated for SCLCR12-3B CCMT32.51-P3, CVD coated for SCLCL12-3B CCMT32.51-P3, CVD coated for SCDRCR12-3B CCMT32.51-P3, CVD coated for SCBCR12-3B CCMT32.51-P3, CVD coated for S12S-SCLCR3 	\$6.80/PC
6139-1024	WCMT32.51, TiN coated for SWGCR12-3B	\$6.60/PC

CARBIDE INSERTS FOR #2988-0058 FOR CUTTING STEEL

Item	Description	Price
6103-2003	GTN-3, TiN coated for QA10R-30B	\$6.60/PC
6152-0025	16ER AG60, TiN coated for SER0625B16	\$9.90/PC
6104-1014	DCMT32.51, TiN coated for SDNCN10-3B	\$7.60/PC
6200-1014	<ul style="list-style-type: none"> CCMT32.51-P3, CVD coated for SCLCR10-3B CCMT32.51-P3, CVD coated for SCLCL10-3B CCMT32.51-P3, CVD coated for SCDRCR10-3B CCMT32.51-P3, CVD coated for SCBCR10-3B CCMT32.51-P3, CVD coated for S10R-SCLCR3 	\$6.80/PC
6139-1024	WCMT32.51, TiN coated for SWGCR10-3B	\$6.60/PC

CARBIDE INSERTS FOR #2988-0001 FOR CUTTING STEEL

Item	Description	Price
6103-2004	GTN-4, TiN coated for QA16R-40D	\$6.60/PC
6152-0025	16ER AG60, TiN coated for SER1000D16	\$9.90/PC
6104-1014	DCMT32.51, TiN coated for SDNCN16-3D	\$7.60/PC
6200-1020	<ul style="list-style-type: none"> CCMT432-P3, CVD coated for SCLCR16-4D CCMT432-P3, CVD coated for SCLCL16-4D CCMT432-P3, CVD coated for SCDRCR16-4D CCMT432-P3, CVD coated for SCBCR16-4D CCMT432-P3, CVD coated for S16T-SCLCR4 	\$8.60/PC
6139-1030	WCMT433, TiN coated for SWGCR16-4D	\$7.60/PC

9PC REPLACEMENT SCREWS SETS (For 9pc Indexable Carbide Turning Tool and Boring Bar Set)

Item	Description	Price
2988-0038PIN	9pcs screws sets for #2988-0038 or #2988-0012, #3988-0038, #3988-0012 Includes: each 1pc M2.5x8, M3x6 and M4x10, 6pcs M2.5x6	\$25.00/SET
2988-0058PIN	9pcs screws sets for #2988-0058 or #3988-0058 Includes: each 1pc M3.5x11, M4x8 and M5x12, 6pcs M4x12	\$25.00/SET
2988-0034PIN	9pcs screws sets for #2988-0034 or #3988-0034 Includes: each 1pc M3.5x11, M4x8 and M6x16, 6pcs M4x12	\$25.00/SET
2988-0001PIN	9pcs screws sets for #2988-0001 or #3988-0001 Includes: each 1pc M3.5x11 and M6x20, 2pcs M4x12, 5pcs M5x12	\$25.00/SET



2988-0038PIN

9PC INDEXABLE CARBIDE TURNING TOOL AND BORING BAR SET, FOR CUTTING ALUMINUM



GREAT ISO9001



3988-0012

Features:

- The material of the holder is upgraded, more rigid, with better cutting stability and better resistance against wearing
- Smooth finish on each turning tool holder marked with tool holder style and shank size

Set includes:

- 9pcs indexable turning tool holders
- 9pcs carbide inserts for cutting aluminum
- Additional 10pcs carbide inserts for cutting aluminum
- 9pcs extra screws
- 1pc stainless steel rigid ruler, 6" 4R
- Free keys
- In a fitted aluminum case

Item	Shank Size	Tool Holder	Tool Holder Size	OAL	Mini Bore	Insert	10pc Extra Carbide Inserts	Ruler	Insert Screw	Price
3988-0038	3/8"	QA06R-20J SER0375J11 SCLCR06-2J SCLCL06-2J SDNCR06-2J SWGCR06-2J SCDCR06-2J SCBCR06-2J S06M-SCLCR2	1/2 x 3/8" 3/8 x 3/8" 3/8"	3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 6"	— — — — — — — — 1/2"	GTN-2LH 11ER A60-LH CCGT21.51-LH CCGT21.51-LH DCGT21.51-LH WCGT2.522-AF CCGT21.51-LH CCGT21.51-LH CCGT21.51-LH	2pcs GTN-2LH 1pc 11ER A60-LH 5pcs CCGT21.51-LH 1pc DCGT21.51-LH 1pc WCGT2.522-AF	6" 4R	M4 x 10 M2.5 x 8 M2.5 x 6 M2.5 x 6 M2.5 x 6 M3 x 6 M2.5 x 6 M2.5 x 6 M2.5 x 6	\$316.00/SET
3988-0012	1/2"	QA08R-20B SER0500J11 SCLCR08-2J SCLCL08-2J SDNCR08-2J SWGCR08-2J SCDCR08-2J SCBCR08-2J S08Q-SCLCR2	1/2 x 1/2" 1/2 x 1/2" 1/2"	4-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 3-1/2" 7"	— — — — — — — — 5/8"	GTN-2LH 11ER A60-LH CCGT21.51-LH CCGT21.51-LH DCGT21.51-LH WCGT2.522-AF CCGT21.51-LH CCGT21.51-LH CCGT21.51-LH	2pcs GTN-2LH 1pc 11ER A60-LH 5pcs CCGT21.51-LH 1pc DCGT21.51-LH 1pc WCGT2.522-AF	6" 4R	M4 x 10 M2.5 x 8 M2.5 x 6 M2.5 x 6 M2.5 x 6 M3 x 6 M2.5 x 6 M2.5 x 6 M2.5 x 6	\$316.00/SET
3988-0058	5/8"	QA10R-30B SER0625B16 SCLCR10-3B SCLCL10-3B SDNCR10-3B SWGCR10-3B SCDCR10-3B SCBCR10-3B S10R-SCLCR3	5/8 x 5/8" 5/8 x 5/8" 5/8"	4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 8"	— — — — — — — — 13/16"	GTN-3LH 16ER AG60-LH CCGT32.51-LH CCGT32.51-LH DCGT32.51-LH WCGT32.52-AF CCGT32.51-LH CCGT32.51-LH CCGT32.51-LH	2pcs GTN-3LH 1pc 16ER AG60-LH 5pcs CCGT32.51-LH 1pc DCGT32.51-LH 1pc WCGT32.52-AF	6" 4R	M5 x 12 M3.5 x 11 M4 x 12 M4 x 12 M4 x 12 M4 x 12 M4 x 12 M4 x 12 M4 x 8	\$379.00/SET
3988-0034	3/4"	QA12R-30C SER0750B16 SCLCR12-3B SCLCL12-3B SDNCR12-3B SWGCR12-3B SCDCR12-3B SCBCR12-3B S12S-SCLCR3	3/4 x 3/4" 3/4 x 3/4" 3/4"	5" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 4-1/2" 10"	— — — — — — — — 1"	GTN-3LH 16ER AG60-LH CCGT32.51-LH CCGT32.51-LH DCGT32.51-LH WCGT32.52-AF CCGT32.51-LH CCGT32.51-LH CCGT32.51-LH	2pcs GTN-3LH 1pc 16ER AG60-LH 5pcs CCGT32.51-LH 1pc DCGT32.51-LH 1pc WCGT32.52-AF	6" 4R	M6 x 16 M3.5 x 11 M4 x 12 M4 x 12 M4 x 12 M4 x 12 M4 x 12 M4 x 12 M4 x 8	\$428.00/SET
3988-0001	1"	QA16R-40D SER1000D16 SCLCR16-4D SCLCL16-4D SDNCR16-3D SWGCR16-4D SCDCR16-4D SCBCR16-4D S16T-SCLCR4	1 x 1" 1 x 1" 1"	6" 6" 6" 6" 6" 6" 6" 6" 12"	— — — — — — — — 1-1/4"	GTN-4LH 16ER AG60-LH CCGT432-LH CCGT432-LH DCGT32.51-LH WCGT432-AF CCGT432-LH CCGT432-LH CCGT432-LH	2pcs GTN-4LH 1pc 16ER AG60-LH 5pcs CCGT432-LH 1pc DCGT32.51-LH 1pc WCGT432-AF	6" 4R	M6 x 20 M3.5 x 11 M5 x 12 M5 x 12 M4 x 12 M4 x 12 M5 x 12 M5 x 12 M5 x 12	\$535.00/SET

REPLACE INSERTS SET FOR CUTTING ALUMINUM (10pcs/set)



Item	Description	Price
3988-0038INSERTS	2pcs GTN-2LH #6603-8002, 1pc 11ER A60-LH #6600-0015, 5pcs CCGT21.51-LH #6600-1008, 1pc DCGT21.51-LH #6604-1010, 1pc WCGT2.522-AF #6639-1020	\$64.00/SET
3988-0012INSERTS	The same as the item 3988-0038INSERTS	\$64.00/SET
3988-0058INSERTS	2pcs GTN-3LH #6603-8003, 1pc 16ER AG60-LH #6600-0025, 5pcs CCGT32.51-LH #6600-0001, 1pc DCGT32.51-LH #6604-1014, 1pc WCGT32.52-AF #6639-1024	\$66.00/SET
3988-0034INSERTS	The same as the item 3988-0058INSERTS	\$66.00/SET
3988-0001INSERTS	2pcs GTN-4LH #6603-8004, 1pc 16ER AG60-LH #6600-0025, 5pcs CCGT432-LH-LH #6600-0432, 1pc DCGT32.51-LH #6604-1014, 1pc WCGT432-AF #6639-1036	\$74.00/SET

CARBIDE INSERTS FOR #3988-0038 FOR CUTTING ALUMINUM

Item	Description	Price
6603-8002	GTN-2LH, Uncoated for QA06R-20J	\$6.60/PC
6600-0015	11ER A60-LH, Uncoated for SER0375J11	\$9.90/PC
6600-1008	CCGT21.51-LH, Uncoated for SCLCR06-2J	\$6.00/PC
	CCGT21.51-LH, Uncoated for SCLCL06-2J	
	CCGT21.51-LH, Uncoated for SCDRCR06-2J	
	CCGT21.51-LH, Uncoated for SCBCR06-2J	
	CCGT21.51-LH, Uncoated for S06M-SCLCR2	
6604-1010	DCGT21.51-LH, Uncoated for SDNCN06-2J	\$6.00/PC
6639-1020	WCGT2.522-AF, Uncoated for SWGCR06-2J	\$9.90/PC



3988-0012INSERTS

CARBIDE INSERTS FOR #3988-0012 FOR CUTTING ALUMINUM

Item	Description	Price
6603-8002	GTN-2LH, Uncoated for QA08R-20B	\$6.60/PC
6600-0015	11ER A60-LH, Uncoated for SER0500J11	\$9.90/PC
6600-1008	CCGT21.51-LH, Uncoated for SCLCR08-2J	\$6.00/PC
	CCGT21.51-LH, Uncoated for SCLCL08-2J	
	CCGT21.51-LH, Uncoated for SCDRCR08-2J	
	CCGT21.51-LH, Uncoated for SCBCR08-2J	
	CCGT21.51-LH, Uncoated for S08Q-SCLCR2	
6604-1010	DCGT21.51-LH, Uncoated for SDNCN08-2J	\$6.00/PC
6639-1020	WCGT2.522-AF, Uncoated for SWGCR08-2J	\$9.90/PC

CARBIDE INSERTS FOR #3988-0034 FOR CUTTING ALUMINUM

Item	Description	Price
6603-8003	GTN-3LH, Uncoated for QA12R-30C	\$6.60/PC
6600-0025	16ER AG60-LH, Uncoated for SER0750B16	\$9.90/PC
6600-0001	CCGT32.51-LH, Uncoated for SCLCR12-3B	\$6.50/PC
	CCGT32.51-LH, Uncoated for SCLCL12-3B	
	CCGT32.51-LH, Uncoated for SCDRCR12-3B	
	CCGT32.51-LH, Uncoated for SCBCR12-3B	
	CCGT32.51-LH, Uncoated for S12S-SCLCR3	
6604-1014	DCGT32.51-LH, Uncoated for SDNCN12-3B	\$6.00/PC
6639-1024	WCGT32.52-AF, Uncoated for SWGCR12-3B	\$9.90/PC

CARBIDE INSERTS FOR #3988-0058 FOR CUTTING ALUMINUM

Item	Description	Price
6603-8003	GTN-3LH, Uncoated for QA10R-30B	\$6.60/PC
6600-0025	16ER AG60-LH, Uncoated for SER0625B16	\$9.90/PC
6600-0001	CCGT32.51-LH, Uncoated for SCLCR10-3B	\$6.50/PC
	CCGT32.51-LH, Uncoated for SCLCL10-3B	
	CCGT32.51-LH, Uncoated for SCDRCR10-3B	
	CCGT32.51-LH, Uncoated for SCBCR10-3B	
	CCGT32.51-LH, Uncoated for S10R-SCLCR3	
6604-1014	DCGT32.51-LH, Uncoated for SDNCN10-3B	\$6.00/PC
6639-1024	WCGT32.52-AF, Uncoated for SWGCR10-3B	\$9.90/PC

CARBIDE INSERTS FOR #3988-0001 FOR CUTTING ALUMINUM

Item	Description	Price
6603-8004	GTN-4LH, Uncoated for QA16R-40D	\$7.00/PC
6600-0025	16ER AG60-LH, Uncoated for SER1000D16	\$9.90/PC
6600-0432	CCGT432-LH, Uncoated for SCLCR16-4D	\$7.50/PC
	CCGT432-LH, Uncoated for SCLCL16-4D	
	CCGT432-LH, Uncoated for SCDRCR16-4D	
	CCGT432-LH, Uncoated for SCBCR16-4D	
	CCGT432-LH, Uncoated for S16T-SCLCR4	
6604-1014	DCGT32.51-LH, Uncoated for SDNCN16-3D	\$6.00/PC
6639-1036	WCGT432-AF, Uncoated for SWGCR16-4D	\$9.90/PC

9PC REPLACEMENT SCREWS SETS (For 9pc Indexable Carbide Turning Tool and Boring Bar Set)

Item	Description	Price
2988-0038PIN	9pcs screws sets for #2988-0038 or #2988-0012, #3988-0038, #3988-0012 Includes: each 1pc M2.5x8, M3x6 and M4x10, 6pcs M2.5x6	\$25.00/SET
2988-0058PIN	9pcs screws sets for #2988-0058 or #3988-0058 Includes: each 1pc M3.5x11, M4x8 and M5x12, 6pcs M4x12	\$25.00/SET
2988-0034PIN	9pcs screws sets for #2988-0034 or #3988-0034 Includes: each 1pc M3.5x11, M4x8 and M6x16, 6pcs M4x12	\$25.00/SET
2988-0001PIN	9pcs screws sets for #2988-0001 or #3988-0001 Includes: each 1pc M3.5x11 and M6x20, 2pcs M4x12, 5pcs M5x12	\$25.00/SET



2988-0038PIN

5PC INDEXABLE TURNING TOOL SET

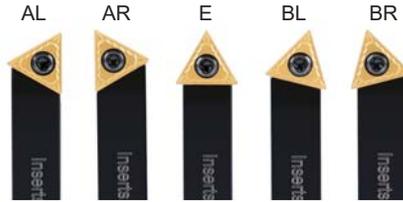
ISO9001

Features:

- Versatile and economical.
- Available in 5 styles.
- Positive rake cutting and built-in chipbreaker groove.

Set includes:

- 1pc each of AL, AR, BL, BR, & E style toolholders
- 5pcs TCMT inserts
- 5pcs extra Torx screws
- 1pc Torx wrench



2380-5042



2380-5123

Item	Shank Square	OAL	Insert	Insert Screw	Price
2380-5022	1/4"	2"	TCMT1.8(1.5)	M2.2 x 6	\$53.00/SET
2380-5042	5/16"	2"	TCMT1.8(1.5)	M2.2 x 6	\$64.00/SET
2380-5062	3/8"	2-1/2"	TCMT21.5	M2.5 x 8	\$66.00/SET
2380-5082	1/2"	3-1/2"	TCMT32.5	M4 x 10	\$76.00/SET
2380-5102	5/8"	4"	TCMT32.5	M4 x 12	\$103.00/SET
2380-5123	3/4"	4-1/2"	TCMT32.5	M4 x 12	\$109.00/SET
2380-5643	1"	6"	TCMT43	M5 x 14	\$142.00/SET

"4+1" PC MINI TOOL HOLDER AND BORING BAR SET

Features:

- Use TCMT carbide inserts.

Set includes:

- 1pc each of STJCR, STACR, STECN, & STDCR turning holders
- 1pc S-STFCR boring bar
- 5pcs extra screws
- 5pcs TCMT inserts
- 1pc Torx wrench



S-STFCR

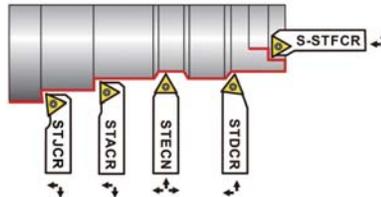


STJCR

STACR

STECN

STDCR



2386-0038



2386-0058

Item	Shank Size	Tool Holder	OAL	Insert	Insert Screw	Price
2386-0038	3/8"	STJCR06-2	2-1/2"	TCMT21.5	M2.5 x 8	\$84.00/SET
		STACR06-2	2-1/2"	TCMT21.5	M2.5 x 8	
		STECN06-2	2-1/2"	TCMT21.5	M2.5 x 8	
		STDCR06-2	2-1/2"	TCMT21.5	M2.5 x 8	
		S06H-STFCR2	4"	TCMT21.5	M2.5 x 5	
2386-0012	1/2"	STJCR08-2J	3-1/2"	TCMT21.5	M2.5 x 8	\$99.00/SET
		STACR08-2J	3-1/2"	TCMT21.5	M2.5 x 8	
		STECN08-2J	3-1/2"	TCMT21.5	M2.5 x 8	
		STDCR08-2J	3-1/2"	TCMT21.5	M2.5 x 8	
		S08Q-STFCR2	7"	TCMT21.5	M2.5 x 6	
2386-0058	5/8"	STJCR10-3A	4"	TCMT32.5	M4 x 12	\$120.00/SET
		STACR10-3A	4"	TCMT32.5	M4 x 12	
		STECN10-3A	4"	TCMT32.5	M4 x 12	
		STDCR10-3A	4"	TCMT32.5	M4 x 12	
		S10R-STFCR3	8"	TCMT32.5	M4 x 8	
2386-0034	3/4"	STJCR12-3C	5"	TCMT32.5	M4 x 12	\$152.00/SET
		STACR12-3C	5"	TCMT32.5	M4 x 12	
		STECN12-3C	5"	TCMT32.5	M4 x 12	
		STDCR12-3C	5"	TCMT32.5	M4 x 12	
		S12S-STFCR3	10"	TCMT32.5	M4 x 8	

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6124-1026	TCMT1.8(1.5)1	\$6.00/PC
6124-1028	TCMT21.51	\$6.60/PC
6124-1034	TCMT32.51	\$7.50/PC



6124-1034

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6624-1022	TCGT1.8(1.5)1-LH	\$6.00/PC
6624-1024	TCGT21.51-LH	\$6.60/PC
6624-1034	TCGT32.51-LH	\$7.80/PC



6624-1034

CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6224-1026	TCMT1.8(1.5)1-P3	\$6.60/PC
6224-1028	TCMT21.51-P3	\$6.60/PC
6224-1034	TCMT32.51-P3	\$7.50/PC
6224-1036	TCMT432-P3	\$10.50/PC



6224-1034

REPLACEMENT SCREWS

Item	Size	Price
0046-2206	M2.2 x 6	\$3.60/PC
0046-2505	M2.5 x 5	\$3.60/PC
0046-2506	M2.5 x 6	\$3.60/PC
0046-2508	M2.5 x 8	\$3.60/PC

Item	Size	Price
0046-4008	M4 x 8	\$3.60/PC
0046-4010	M4 x 10	\$3.60/PC
0046-4012	M4 x 12	\$3.60/PC
0046-5014	M5 x 14	\$3.60/PC

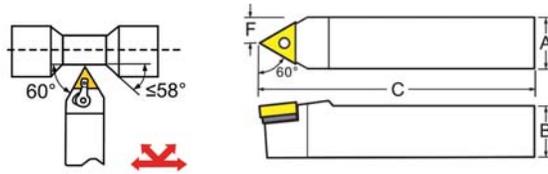


0046-4010

MTENN INDEXABLE TOOL HOLDER

Features:

- Used for turning and profiling.
- Negative rake.
- 30° end cutting edge angle.
- TNMG insert.



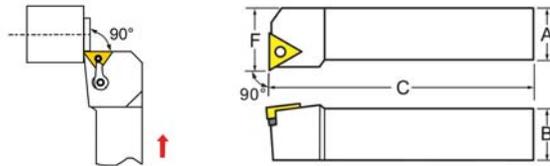
2313-5020

Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Price
2313-5014	MTENN-10-3B	5/8"	4-1/2"	5/16"	TNMG33	T16B	ZX513	YB1814	SD6 x 25	\$46.00/PC
2313-5016	MTENN-12-3C	3/4"	5"	3/8"	TNMG33	T16B	ZX513	YB1814	SD6 x 25	\$53.00/PC
2313-5020	MTENN-16-4D	1"	6"	1/2"	TNMG43	T22B	ZX617	YB1814	SD6 x 25	\$65.00/PC

MTFN R/L INDEXABLE TOOL HOLDER

Features:

- Used for rough or finish facing.
- Negative rake.
- 0° end cutting edge angle.
- TNMG insert.



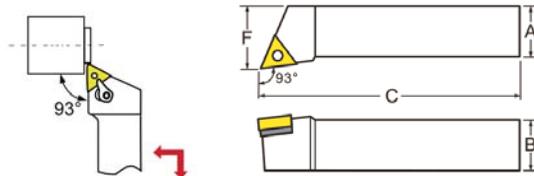
2310-5014

Right-Hand Item	Left-Hand Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Price
2310-5014	2310-6014	MTFN R/L-12-3C	3/4"	5"	3/4"	TNMG33	T16B	ZX513	YB1814	SD6 x 25	\$53.00/PC
2310-5018	2310-6018	MTFN R/L-16-4D	1"	6"	1-1/4"	TNMG43	T22B	ZX617	YB2114	SD6 x 30	\$65.00/PC

MTJN R/L INDEXABLE TOOL HOLDER

Features:

- Used for contouring, profiling, and facing.
- Negative 3° cutting edge angle.
- Negative rake.
- TNMG insert.



2312-5012

Right-Hand Item	Left-Hand Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Price
2312-5008	2312-6008	MTJN R/L-12-3C	3/4"	5"	1"	TNMG33	T16B	ZX513	YB1814	SD6 x 25	\$61.00/PC
2312-5012	2312-6012	MTJN R/L-16-4D	1"	6"	1-1/4"	TNMG43	T22B	ZX617	YB2114	SD6 x 25	\$73.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6122-1034	TNMG332	\$8.00/PC



REPLACEMENT LOCKING PINS

Item	Size	Price
0028-0513	ZX513	\$6.40/PC
0028-0617	ZX617	\$6.40/PC



0028-0513

CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6222-1034	TNMG332-P3	\$8.00/PC
6222-1036	TNMG432-P3	\$10.00/PC



6222-1036

REPLACEMENT CARBIDE CLAMPS

Item	Size	Price
0028-1814	YB1814	\$7.50/PC
0028-2114	YB2114	\$7.50/PC



0028-1814

REPLACEMENT CARBIDE SHIMS

Item	Size	Price
0047-T16B	T16B	\$3.60/PC
0047-T22B	T22B	\$3.60/PC



0047-T16B

REPLACEMENT CLAMP SCREWS

Item	Size	Price
0028-0625	SD6 x 25	\$4.20/PC
0028-0630	SD6 x 30	\$4.20/PC



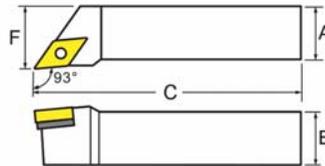
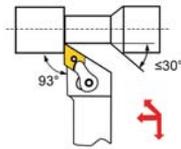
0028-0625

MDJN R/L INDEXABLE TOOL HOLDER

ISO9001

Features:

- 3° side cutting edge angle.
- Used for turning, facing, and copying, from roughing to finishing.
- DNMG insert.



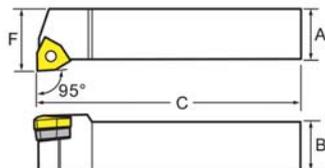
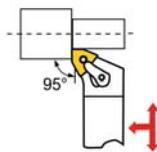
2302-5020

Right-Hand Item	Left-Hand Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Price
2302-5016	2302-6016	MDJN R/L-12-3B	3/4"	4-1/2"	1"	DNMG33	D11B	ZX513	YB1814	SD6 x 25	\$53.00/PC
2302-5020	2302-6020	MDJN R/L-16-4D	1"	6"	1-1/4"	DNMG43	D15B	ZX619	YB2114	SD6 x 30	\$65.00/PC

MWLN R/L INDEXABLE TOOL HOLDER

Features:

- Negative 5° end or side cutting edge angle.
- Used for turning, facing, and profiling, from roughing to finishing.
- WNMG insert.



2316-0008

Right-Hand Item	Left-Hand Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Price
2316-0008	2316-1008	MWLN R/L-12-4C	3/4"	5"	1"	WNMG43	W08B	ZX617	YB1814	SD6 x 25	\$53.00/PC
2316-0012	2316-1012	MWLN R/L-16-4D	1"	6"	1-1/4"	WNMG43	W08B	ZX617	YB1814	SD6 x 30	\$65.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6133-1022	WNMG432	\$8.00/PC



REPLACEMENT LOCKING PINS

Item	Size	Price
0028-0513	ZX513	\$6.40/PC
0028-0617	ZX617	\$6.40/PC
0028-0619	ZX619	\$6.80/PC



CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6206-1026	DNMG332-P3	\$8.30/PC
6206-1028	DNMG432-P3	\$10.00/PC
6233-1022	WNMG432-P3	\$8.00/PC



REPLACEMENT CARBIDE CLAMPS

Item	Size	Price
0028-1814	YB1814	\$7.50/PC
0028-2114	YB2114	\$7.50/PC



REPLACEMENT CARBIDE SHIMS

Item	Size	Price
0047-D11B	D11B	\$3.60/PC
0047-D15B	D15B	\$3.60/PC
0047-W08B	W08B	\$3.60/PC



REPLACEMENT CLAMP SCREWS

Item	Size	Price
0028-0625	SD6 x 25	\$4.20/PC
0028-0630	SD6 x 30	\$4.20/PC

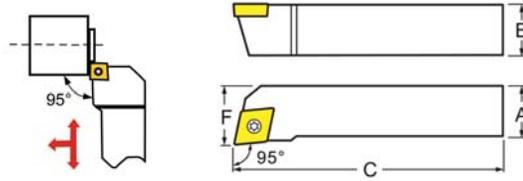


SCLC R/L INDEXABLE TOOL HOLDER

ISO9001

Features:

- Negative 5° end or side cutting edge angle for a positive 80° diamond CCMT/CCGT insert.



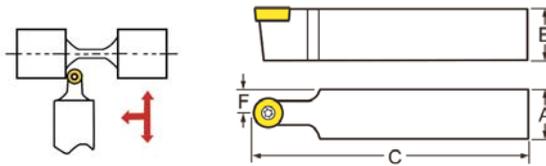
2370-5006

Right-Hand Item	Left-Hand Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Insert Screw	Price
2370-5004	2370-6004	SCLC R/L-06-2J	3/8"	3-1/2"	1/2"	CCMT21.5	M2.5 x 8	\$36.00/PC
2370-5006	2370-6006	SCLC R/L-08-3A	1/2"	4"	5/8"	CCMT32.5	M4 x 10	\$36.00/PC
2370-5008	2370-6008	SCLC R/L-10-3B	5/8"	4-1/2"	3/4"	CCMT32.5	M4 x 12	\$41.00/PC
2370-5010	2370-6010	SCLC R/L-12-3B	3/4"	4-1/2"	1"	CCMT32.5	M4 x 12	\$53.00/PC

SRDCN INDEXABLE TOOL HOLDER

Features:

- 0° Lead angle; 7° Relief; for RCMT/RCGT insert.



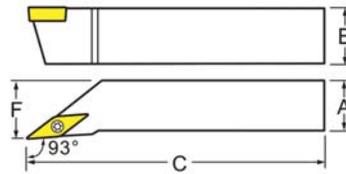
2376-0012

Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Insert Screw	Price
2376-0006	SRDCN06-2J	3/8"	3-1/2"	3/16"	RCMT22	M2.5 x 8	\$53.00/PC
2376-0012	SRDCN12-3B	3/4"	4-1/2"	3/8"	RCMT32	M3.5 x 12	\$61.00/PC

SVJB R/L INDEXABLE TOOL HOLDER

Features:

- Negative 3° side cutting edge angle for positive 35° diamond VBMT/VBGT insert.



2373-5014

Right-Hand Item	Left-Hand Item	Model	Shank Square (A/B)	OAL (C)	F	Insert	Insert Screw	Price
2373-5004	2373-6004	SVJB R/L 06-2J	3/8"	3-1/2"	1/2"	VBMT22	M2.5 x 8	\$36.00/PC
2373-5006	2373-6006	SVJB R/L 08-2A	1/2"	4"	5/8"	VBMT22	M2.5 x 8	\$36.00/PC
2373-5010	2373-6010	SVJB R/L-12-3B	3/4"	4-1/2"	1"	VBMT33	M4 x 12	\$44.00/PC
2373-5014	2373-6014	SVJB R/L-16-3D	1"	6"	1-1/4"	VBMT33	M4 x 12	\$53.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6100-1008	CCMT21.51	\$6.00/PC
6123-1000	RCMT220	\$6.60/PC
6123-1010	RCMT320	\$7.50/PC
6138-1028	VBMT332	\$9.50/PC



6138-1028

CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6200-1008	CCMT21.51-P3	\$6.00/PC
6200-1014	CCMT32.51-P3	\$6.80/PC
6200-1016	CCMT32.52-P3	\$6.80/PC
6238-1026	VBMT221-P3	\$8.60/PC
6238-1028	VBMT332-P3	\$9.50/PC



6200-1014

6238-1028

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6600-1008	CCGT21.51-LH	\$6.00/PC
6600-0005	CCGT32.50-LH	\$6.50/PC
6600-0001	CCGT32.51-LH	\$6.50/PC
6600-0002	CCGT32.52-LH	\$6.50/PC
6638-1026	VBGT222-LH	\$6.20/PC
6638-1028	VBGT332-LH	\$6.60/PC
6624-1000	RCGT220-AF	\$6.60/PC
6624-1010	RCGT320-AF	\$7.50/PC



6638-1028

REPLACEMENT SCREWS

Item	Size	Price
0046-2508	M2.5 x 8	\$3.60/PC
0046-3512	M3.5 x 12	\$3.60/PC
0046-4010	M4 x 10	\$3.60/PC
0046-4012	M4 x 12	\$3.60/PC



0046-4010

2PC EXTERNAL & INTERNAL GROOVING TOOL SET
(nickel plated body)

GREAT ISO9001

Features:

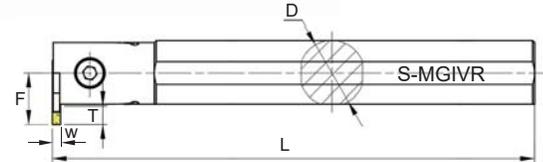
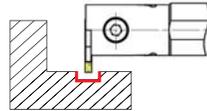
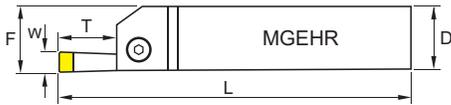
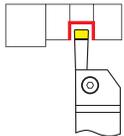
- The design of the toolholder provides precision clamping and insert indexing accuracy.
- Suitable for various external & internal grooving.
- Internal holders: ideal for internal grooving, turning, & profile machining.
- External holders: ideal for external grooving, turning, parting, profiling, & relief machining.
- Use the double-cutting-edge MGMN carbide inserts.
- Right-hand.

Set includes:

- 1pc external tool holder (MGEHR).
- 1pc internal tool holder (S-MGIVR).
- 10pcs TiN coated inserts (MGMN).
- Hex key.
- 2pcs extra screws.
- In a fitted aluminum case.



0028-1034



Item	Shank Size (D)	Tool Holder	Tool Holder Size	OAL (L)	F	T	Insert Width (w)	Insert	Insert Screw	Price
0028-1058	5/8"	MGEHR10-2B	5/8" x 5/8"	4-1/2"	21/32"	7/8"	0.079"	MGMN200	M4 x 12	\$178.00/SET
		S10K-MGIVR2	5/8"	5"	1/2"	3/16"	0.079"	MGMN200	M4 x 10	
0028-1034	3/4"	MGEHR12-3C	3/4" x 3/4"	5"	13/16"	7/8"	0.118"	MGMN300	M5 x 14	\$199.00/SET
		S12Q-MGIVR3	3/4"	7"	5/8"	1/4"	0.118"	MGMN300	M4 x 12	



6103-4022



6603-4027



0047-5014

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6103-4022	MGMN200	\$6.60/PC
6103-4026	MGMN300	\$6.60/PC

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6603-4023	MGGN200-LH	\$6.00/PC
6603-4027	MGGN300-LH	\$6.60/PC

REPLACEMENT SCREWS

Item	Size	Price
0047-4010	M4 x 10	\$3.60/PC
0047-4012	M4 x 12	\$3.60/PC
0047-5014	M5 x 14	\$3.60/PC

2PC INDEXABLE GROOVE TOOL SET
(1/2" Shank, nickel plated body)

Features:

- **External groove:** PRER08-2J, OAL: 3-1/2", insert screw: M3 x 8-L (left hand).
- **Internal groove:** S08K-PRIR2, OAL: 5", insert screw: M3 x 8.
- 10pcs TiN coated inserts.
- 1pc wrench.
- In a fitted aluminum case.



Item #0028-1230
\$238.00/SET

10pcs Carbide Inserts:

for External Groove	for Internal Groove
T11E-0.02 x 1pc	T11N-0.02 x 1pc
T11E-0.03 x 1pc	T11N-0.03 x 1pc
T11E-0.04 x 1pc	T11N-0.04 x 1pc
T11E-0.049 x 1pc	T11N-0.049 x 1pc
T11E-0.059 x 1pc	T11N-0.059 x 1pc



2PC INDEXABLE GROOVE TOOL SET
(3/4" Shank, nickel plated body)

Features:

- **External groove:** GRER12-3B, OAL: 4.5", insert screw: M4 x 12.
- **Internal groove:** S12Q-GRIR3, OAL: 7", insert screw: M4 x 12.
- 10pcs TiN coated inserts.
- 1pc wrench.
- In a fitted aluminum case.



Item #0028-1640
\$286.00/SET

10pcs Carbide Inserts:

for External Groove	for Internal Groove
TGF32R-0.02 x 1pc	TGF32L-0.02 x 1pc
TGF32R-0.03 x 1pc	TGF32L-0.03 x 1pc
TGF32R-0.04 x 1pc	TGF32L-0.04 x 1pc
TGF32R-0.049 x 1pc	TGF32L-0.049 x 1pc
TGF32R-0.059 x 1pc	TGF32L-0.059 x 1pc



REPLACEMENT SCREWS

Item	Size	Price
0046-3008	M3 x 8	\$3.60/PC
0046-3108	M3 x 8-L	\$3.60/PC
0046-4012	M4 x 12	\$3.60/PC



0046-4012

12PC INDEXABLE EXTERNAL THREADING SET (oxide finish body)

Features:

- Shank diameter: 3/4"
Insert inscribed circle: 3/8"

Set includes:

- 1pc external toolholder SER0750K16
- 10pcs TiN coated inserts: 8UN, 12UN, 14UN, 16UN, 18UN, 20UN, 24UN, A60, AG60 and G60
- Insert screw: M3.5 x 10
- Shim: LT16ER-3, shim screw: M5 x 0.5
- 1pc wrench
- In a fitted aluminum case



Item #0028-0283
\$233.00/SET



Replacement inserts 10pcs/set External
1pc 8UN, 12UN, 14UN, 16UN, 18UN, 20UN, 24UN, A60, AG60 and G60

Item #6128-0287
\$109.00/SET

REPLACEMENT CARBIDE SHIM

Item	Size	Price
0047-1630	LT16ER-3	\$3.60/PC



12PC INDEXABLE INTERNAL THREADING SET (oxide finish body)

Features:

- Shank diameter: 3/4"
Insert inscribed circle: 3/8"

Set includes:

- 1pc Internal toolholder S12P-THSNR16
- 10pcs TiN coated inserts: 8UN, 12UN, 14UN, 16UN, 18UN, 20UN, 24UN, A60, AG60 and G60
- Insert screw: M3.5 x 10
- 1pc wrench
- In a fitted aluminum case



Item #0028-0284
\$237.00/SET



Replacement inserts 10pcs/set Internal
1pc 8UN, 12UN, 14UN, 16UN, 18UN, 20UN, 24UN, A60, AG60 and G60

Item #6128-0288
\$109.00/SET

REPLACEMENT SCREW

Item	Size	Price
0046-3510	M3.5 x 10	\$3.60/PC



3PC LITTLE HOGGER MILL SET (1" dia. head, 3/4" shank, oxide finish body)



Features:

- Comes with quality carbide inserts
- Mills steels & cast iron
- 1pc each of 45°, 90° & 3/16R mill
- Insert screw: M3.5 x 10
- Supplied in a fitted case

Item #0046-0700
\$108⁰⁰set



6PC CARBIDE INSERT SET (For little hogger mill set)

Features:

- Specially designed for #0046-0700 little hogger mill set
- Includes: 2pcs TNMA32, 2pcs SNMA32, and 2pcs RNMA32



Item #6146-0701
(6pcs/set)
\$40.00/SET

REPLACEMENT SCREW

Item	Size	Price
0046-3510	M3.5 x 10	\$3.60/PC



3PC MINIATURE INDEXABLE END MILL SET (1/2" shank, oxide finish body)

Features:

- 1/2" shank
- 3" overall length
- Each set contains 1pc each of 1/2", 9/16", & 5/8" cutters with inserts
- Use standard TPG22 inserts
- Locking screw: SM5 x 8
- Supplied in a fitted case

Item #0046-0510
\$73⁰⁰set



CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6127-1022	TPG221	\$4.40/PC
6127-1024	TPG222	\$4.40/PC
6127-1025	TPG22	\$4.40/PC



6127-1025

REPLACEMENT SCREW

Item	Size	Price
0045-5008	SM5 x 8	\$3.60/PC



SELF-LOCK CARBIDE CUT-OFF TOOL SET

GREAT **ISO9001**

Item #2410-0012 1/2" set \$153.00/SET

- Set includes:
- 1pc **SLTBN12-2** tool block 1/2".
 - 1pc **NCIH19-2** adjustable blade, 0.078" insert cutting width.
 - Blades marked with vernier increasing line in 32nds.
 - 10pcs GTN-2 carbide inserts, Grade C6, 0.078" cutting insert width, TiN coated.
 - 1pc insert wrench & 1pc Allen wrench.
 - In a fitted aluminum case.



2410-0012

Item #2410-0013 3/4" set \$205.00/SET

- Set includes:
- 1pc **SLTBN19-5** tool block 3/4".
 - 1pc **NCIH26-3** adjustable blade, 0.118" insert cutting width.
 - 1pc **NCIH26-4** adjustable blade, 0.157" insert cutting width.
 - Blades marked with vernier increasing line in 32nds.
 - 5pcs GTN-3 carbide inserts, Grade C6, 0.118" insert cutting width, TiN coated.
 - 5pcs GTN-4 carbide inserts, Grade C6, 0.157" insert cutting width, TiN coated.
 - 1pc insert wrench & 1pc Allen wrench.
 - In a fitted aluminum case.



2410-0013

Item #2410-1010 1" set \$172.00/SET

- Set includes:
- 1pc **SLTBN25-6** Tool Block 1".
 - 1pc **NCIH32-3** adjustable blade, 0.118" insert cutting width.
 - Blades marked with vernier increasing line in 32nds.
 - 10pcs GTN-3 carbide inserts, Grade C6, 0.118" insert cutting width, TiN coated.
 - 1pc insert wrench & 1pc Allen wrench.
 - In a fitted aluminum case.



2410-1010

POSITIVE STOP ADJUSTABLE BLADES FOR SELF-LOCK CUT-OFF INSERT

- Features:
- For all CNC lathes and manual lathes.
 - For grooving, parting off to center and chamfering.
 - Easy removal of inserts with extractor.
 - Chipbreaker on inserts allows for high speeds and feed rates.
 - Multiple lead angles.
 - Blade marked with vernier increasing line in 32nds.
 - **Inserts not included.**



Item	Blade	Dimensions					Max. Work Dia	Insert	Price
		W	A	L	H1	H			
2402-0002	NCIH19-2	0.078"	0.070"	3.385"	0.389"	0.728"	1-1/2"	GTN-2	\$42.00/PC
2402-0004	NCIH26-2	0.078"	0.070"	4.330"	0.624"	1.004"	3"	GTN-2	\$45.00/PC
2402-0006	NCIH26-3	0.118"	0.094"	4.330"	0.596"	0.998"	3"	GTN-3	\$45.00/PC
2402-0008	NCIH26-4	0.157"	0.126"	4.330"	0.592"	0.989"	3"	GTN-4	\$45.00/PC
2402-0010	NCIH26-5	0.197"	0.157"	4.330"	0.588"	0.981"	4"	GTN-5	\$45.00/PC
2402-0012	NCIH26-6	0.236"	0.204"	4.330"	0.570"	0.968"	4"	GTN-6	\$45.00/PC
2402-0014	NCIH32-3	0.118"	0.094"	5.905"	0.738"	1.228"	4"	GTN-3	\$48.00/PC
2402-0016	NCIH32-4	0.157"	0.126"	5.905"	0.734"	1.219"	4"	GTN-4	\$48.00/PC
2402-0018	NCIH32-5	0.197"	0.157"	5.905"	0.730"	1.211"	5"	GTN-5	\$51.00/PC
2402-0020	NCIH32-6	0.236"	0.204"	5.905"	0.712"	1.198"	5"	GTN-6	\$55.00/PC

SELF-LOCK CARBIDE CUT-OFF INSERTS, 0 DEGREE ANGLE

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Insert	Cutting Width (w)	Price
6103-2002	GTN-2	0.078"	\$6.60/PC
6103-2003	GTN-3	0.118"	\$6.60/PC
6103-2004	GTN-4	0.157"	\$6.60/PC
6103-2005	GTN-5	0.197"	\$6.60/PC
6103-2006	GTN-6	0.236"	\$7.30/PC



6103-2003
0° lead angle

CARBIDE INSERTS, PVD COATED, FOR CUTTING STAINLESS STEEL

Item	Insert	Cutting Width (w)	Price
6803-6002	GTN-2	0.078"	\$6.60/PC
6803-6003	GTN-3	0.118"	\$6.60/PC
6803-6004	GTN-4	0.157"	\$7.00/PC



6803-6003

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Insert	Cutting Width (w)	Price
6603-8002	GTN-2LH	0.078"	\$6.60/PC
6603-8003	GTN-3LH	0.118"	\$6.60/PC
6603-8004	GTN-4LH	0.157"	\$7.00/PC



6603-8003

INDEXABLE FACE MILLING CUTTER (90 degree, positive rake, nickel plated body)

Features:

- Comes with standard TPG32 carbide inserts.
- 90 degree positive rake.
- Right-hand cut.

Item	Cutting Dia.	Bore Dia.	No. of Inserts	Insert	Locking Screw	Price
3508-0012	2"	3/4"	3	TPG32	SM6 x 12	\$109.00/PC
3508-0016	2-1/2"	3/4"	4	TPG32	SM6 x 12	\$131.00/PC
3508-0018	3"	1"	5	TPG32	SM6 x 12	\$154.00/PC



3508-0016

INDEXABLE FACE MILLING CUTTER (90 degree, positive rake, oxide finish body)

Features:

- Comes with standard TPG32 carbide inserts.
- 90 degree positive rake.
- Right-hand cut.

Item	Cutting Dia.	Bore Dia.	No. of Inserts	Insert	Locking Screw	Price
2508-0012	2"	3/4"	3	TPG32	SM6 x 12	\$98.00/PC
2508-0016	2-1/2"	3/4"	4	TPG32	SM6 x 12	\$120.00/PC
2508-0018	3"	1"	5	TPG32	SM6 x 12	\$139.00/PC



2508-0012

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6127-1026	TPG321	\$5.00/PC
6127-1028	TPG322	\$5.00/PC
6127-1029	TPG32	\$5.00/PC



6127-1028

6127-1029

REPLACEMENT SCREW

Item	Size	Price
0045-6012	SM6 x 12	\$3.60/PC



INDEXABLE FACE MILLING CUTTER (75 degree, positive rake, nickel plated body)



Features:

- Comes with standard SPG42 carbide inserts.
- 75 degree positive rake.
- Right-hand cut.

Item	Cutting Dia.	Bore Dia.	No. of Inserts	Insert	Locking Screw	Price
3509-0010	2-1/2"	3/4"	4	SPG42	SM6 x 19	\$152.00/PC
3509-0012	3"	1"	5	SPG42	SM6 x 19	\$215.00/PC
3509-0014	4"	1-1/2"	6	SPG42	SM6 x 19	\$237.00/PC
3509-0016	5"	1-1/2"	6	SPG42	SM6 x 19	\$284.00/PC



3509-0016

INDEXABLE FACE MILLING CUTTER (75 degree, positive rake, oxide finish body)

Features:

- Comes with standard SPG42 carbide inserts.
- 75 degree positive rake.
- Right-hand cut.

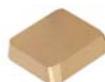
Item	Cutting Dia.	Bore Dia.	No. of Inserts	Insert	Locking Screw	Price
2509-0010	2-1/2"	3/4"	4	SPG42	SM6 x 19	\$139.00/PC
2509-0012	3"	1"	5	SPG42	SM6 x 19	\$201.00/PC
2509-0014	4"	1-1/2"	6	SPG42	SM6 x 19	\$230.00/PC
2509-0016	5"	1-1/2"	6	SPG42	SM6 x 19	\$260.00/PC



2509-0012

CARBIDE INSERT, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6136-1026	SPG422	\$6.50/PC



6136-1026

REPLACEMENT SCREW

Item	Size	Price
0045-6019	SM6 x 19	\$4.50/PC

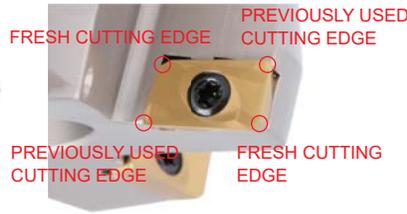
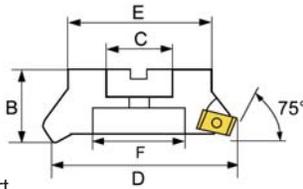


75 DEGREE INDEXABLE FACE MILL
(nickel plated body)

ISO9001

Features:

- Suitable for generic face milling.
- Surface milling for medium roughing.
- Recommended for CNC and traditional milling machines.
- Comes with APKT1604 carbide inserts.
- Extending the life of the APKT1604 insert that is already used on 90° indexable end mill though milling by the two unused edges.



0028-2602

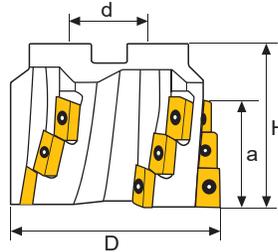
Item	Cutting Dia (D)	Arbor Hole (C)	B	E	F	No. of Inserts	Insert	Insert Screw	Price
0028-2601	2-1/2"	3/4"	1.57"	1.75"	0.65"	4	APKT1604	M4 x 10	\$153.00/PC
0028-2602	3"	1"	1.97"	2.25"	0.83"	5	APKT1604	M4 x 10	\$207.00/PC
0028-2603	4"	1-1/2"	1.97"	3.75"	1.97"	6	APKT1604	M4 x 10	\$240.00/PC

90° HEAVY-DUTY COOLANT HELICAL SHELL INDEXABLE MILLING CUTTER
(nickel plated body)

GREAT

Features:

- Right-hand.
- 90° heavy-duty deep slotting.
- Side milling, finishing and pocketing.
- Coolant helical flutes are ideal for high-speed machining with low power consumption.
- Can use APKT / APMT / APKR / APHT / APHW carbide inserts.



0028-2670A



0028-2671A

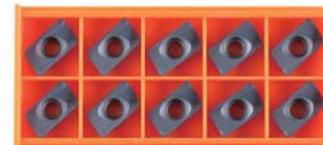
Item	Cutting Dia (D)	Arbor Hole (d)	Height (H)	Length of Cut (a)	No. of Flutes	No. of Inserts	Insert	Insert Screw	Price
0028-2670A	2"	1"	2-3/8"	1-1/8"	3	6	APKT1604	M4 x 10	\$336.00/PC
0028-2671A	3"	1-1/4"	2-3/8"	1-5/8"	5	15	APKT1604	M4 x 10	\$658.00/PC



6156-1604



6658-1604



6856-1604

CARBIDE INSERT, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6156-1604	APKT1604	\$6.60/PC

CARBIDE INSERT, PVD COATED, FOR CUTTING STAINLESS STEEL

Item	Size	Price
6856-1604	APMT1604PDER-H2	\$6.60/PC

CARBIDE INSERT, FOR CUTTING ALUMINUM

Item	Size	Price
6658-1604	APKT160408-G2	\$6.60/PC

REPLACEMENT SCREW

Item	Size	Price
0046-4010	M4 x 10	\$3.60/PC

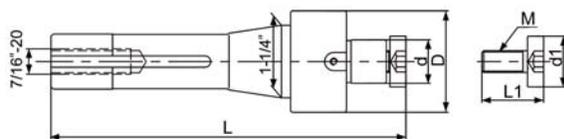


R8 PRECISION SHELL END MILL ADAPTOR

ISO9001

Features:

- For Bridgeport.
- Drawbar thread: 7/16"-20.
- TIR: 0.0003".
- Holds face mills.



FG22-8064

Item	d	L	Range Diameter (D)	d1 (Screw)	L1 (Screw)	M	Price
FG22-8032	1/2"	5.90"	1-1/4" - 1-1/2"	0.375"	0.826"	1/4"-28UNF	\$76.00/PC
FG22-8048	3/4"	6.06"	1-3/4" - 2"	0.563"	1.063"	3/8"-24UNF	\$76.00/PC
FG22-8064	1"	6.10"	2-1/4" - 2-3/4"	0.750"	1.299"	1/2"-20UNF	\$88.00/PC
FG22-8080	1-1/4"	6.14"	3" - 3-1/2"	0.940"	1.535"	5/8"-18UNF	\$95.00/PC
FG22-8096	1-1/2"	6.41"	4" - 5"	1.874"	1.771"	3/4"-16UNF	\$109.00/PC

90 DEGREE R8 SHANK INDEXABLE END MILL WITH APKT1604 CARBIDE INSERT
(nickel plated body)

Features:

- Shank size: R8 shank.
 - R8 shank threading: 7/16"-20.
 - Reduces the cutting forces.
 - Maximum rigidity.
 - Forged steel body.
 - Each cutter is provided with 1 key.
 - APKT1604 carbide inserts are installed already.
- (Prices including APKT1604 inserts).



0028-6906

GREAT

ISO9001

Tool angles:

- Cutting rake angle: 11° to 13°
- Radial rake angle: 11° to 13°
- Axial rake angle: 6° to 10°
- Setting angle: 90°

0028-6908



Item	Cutting Dia.	OAL	No. of Inserts	Insert	Insert Screw	Price
0028-6903	1"	5-27/32"	2	APKT1604	M4 x 8	\$76.00/PC
0028-6904	1-1/4"	5-27/32"	3	APKT1604	M4 x 8	\$78.00/PC
0028-6905	1-1/2"	6-1/8"	4	APKT1604	M4 x 8	\$109.00/PC
0028-6906	2"	6-1/8"	5	APKT1604	M4 x 8	\$142.00/PC
0028-6907	2-1/2"	6-1/8"	6	APKT1604	M4 x 8	\$158.00/PC
0028-6908	3"	6-1/4"	6	APKT1604	M4 x 10	\$208.00/PC

CARBIDE INSERT, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6156-1604	APKT1604	\$6.60/PC



CARBIDE INSERT, PVD COATED, FOR CUTTING STAINLESS STEEL

Item	Size	Price
6856-1604	APMT1604PDER-H2	\$6.60/PC



CARBIDE INSERT, FOR CUTTING ALUMINUM

Item	Size	Price
6658-1604	APKT160408-G2	\$6.60/PC



REPLACEMENT SCREWS

Item	Size	Price
0046-4008	M4 x 8	\$3.60/PC
0046-4010	M4 x 10	\$3.60/PC



CARBIDE INDEXABLE END MILL
(3/4" straight shank, oxide finish body)

Features:

- Comes with inserts installed.
- Uses standard triangular inserts.
- Positive rake 90°, right-hand cut.



0046-0914

GREAT

Item	Cutting Dia.	No. of Inserts	Insert	Locking Screw	Price
0046-0912	1"	2	TPG22	SM5 x 10	\$46.00/PC
0046-0913	1-1/2"	3	TPG32	SM6 x 12	\$76.00/PC
0046-0914	2"	3	TPG32	SM6 x 12	\$94.00/PC

CARBIDE INDEXABLE END MILL
(R8 shank, oxide finish body)

Features:

- Comes with inserts installed.
- Uses standard triangular inserts.
- Positive rake 90°, right-hand cut.
- R8 shank threading: 7/16"-20.



0046-0916



0046-0917

Item	Cutting Dia.	No. of Inserts	Insert	Locking Screw	Price
0046-0915	1"	2	TPG22	SM5 x 10	\$58.00/PC
0046-0916	2"	3	TPG32	SM6 x 12	\$109.00/PC
0046-0917	3"	5	TPG32	SM6 x 12	\$169.00/PC

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6127-1022	TPG221	\$4.40/PC
6127-1024	TPG222	\$4.40/PC
6127-1025	TPG22	\$4.40/PC
6127-1026	TPG321	\$5.00/PC
6127-1028	TPG322	\$5.00/PC
6127-1029	TPG32	\$5.00/PC



6127-1028

REPLACEMENT SCREWS

Item	Size	Price
0045-5010	SM5 x 10	\$3.60/PC
0045-6012	SM6 x 12	\$3.60/PC



0046-0612

3PC INDEXABLE COUNTERSINK SET

ISO9001

Features:

- Positive rake for smooth cutting without chatter.
- Indexable carbide inserts eliminate tool resharping.
- Comes with inserts.
- In a fitted aluminum case.

3pcs/set: 1/4", 1/2", & 1-1/4"

- 1/4"-3/4" with a 1/2" shank use carbide insert TCMT32.5, insert screw M4x10
- 1/2"- 1-3/4" with a 1/2" shank use carbide insert SCMT43, insert screw M5x12
- 1-1/4" - 2-1/2" with a 3/4" shank use carbide insert SCMT43, insert screw M5x12



0046-0982



Item	Angle	Insert	Price
0046-0960	60°	TCMT32.5, SCMT43	\$152.00/SET
0046-0982	82°	TCMT32.5, SCMT43	\$152.00/SET
0046-0990	90°	TCMT32.5, SCMT43	\$152.00/SET

CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6124-1034	TCMT32.51	\$7.50/PC
6124-1058	SCMT432	\$9.30/PC



6124-1034

6124-1058

CARBIDE INSERTS, CVD COATED, FOR CUTTING STEEL

Item	Size	Price
6224-1034	TCMT32.51-P3	\$7.50/PC
6222-1058	SCMT432-P3	\$9.30/PC



6224-1034

6222-1058

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6624-1034	TCGT32.51-LH	\$7.80/PC
6624-1058	SCGT432-LH	\$7.80/PC



6624-1034

6624-1058

REPLACEMENT SCREWS

Item	Size	Price
0046-4010	M4 x 10	\$3.60/PC
0046-5012	M5 x 12	\$3.60/PC



0046-4010

HFEM INDEXABLE END MILLS

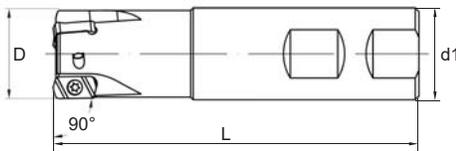
GREAT

ISO9001

NEW

Features:

- **Double-Sided Inserts with Four Cutting Edges:** Each insert can be rotated four times, significantly reducing machining costs.
- **High Positive Rake Angle:** Enables higher cutting speeds and faster material removal.
- **Unique Corner Design:** Reduces cutting forces, extends tool life, and enhances surface finish quality.
- **Versatile Applications:** Ideal for slope milling, helical milling, and machining large flat surfaces.
- Use LNMU030312R-JM TiAlN coated inserts.



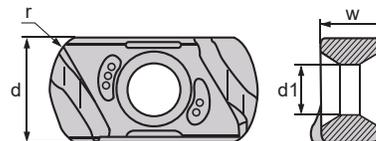
HFEM-0034

Item	Cutting Diameter (D)	Shank (d1)	OAL (L)	No. of Flutes	Insert	Insert Screw	Price
HFEM-0058	5/8"	5/8"	4"	2	LNMU030312R-JM	M2.5 x 8	\$88.00/PC
HFEM-0034	3/4"	3/4"	4"	3	LNMU030312R-JM	M2.5 x 8	\$104.00/PC
HFEM-0001	1"	1"	4"	4	LNMU030312R-JM	M2.5 x 8	\$132.00/PC
HFEM-1114	1-1/4"	1"	4-1/4"	5	LNMU030312R-JM	M2.5 x 8	\$172.00/PC
HFEM-2114	1-1/4"	1-1/4"	4-1/4"	5	LNMU030312R-JM	M2.5 x 8	\$170.00/PC
HFEM-1112	1-1/2"	1"	4-1/4"	6	LNMU030312R-JM	M2.5 x 8	\$199.00/PC
HFEM-2112	1-1/2"	1-1/4"	4-1/4"	6	LNMU030312R-JM	M2.5 x 8	\$199.00/PC
HFEM-1002	2"	1"	4-1/2"	7	LNMU030312R-JM	M2.5 x 8	\$228.00/PC
HFEM-2002	2"	1-1/4"	4-1/2"	7	LNMU030312R-JM	M2.5 x 8	\$228.00/PC



REPLACEMENT SCREW

Item	Size	Price
0046-2508	M2.5 x 8	\$3.60/PC



CARBIDE INSERT, TiAlN COATED, FOR CUTTING STEEL / STAINLESS STEEL

Item	Carbide Insert	Coated	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
6128-0001	LNMU030312R-JM	TiAlN Coated	0.236"	0.154"	0.114"	0.047"	\$7.30/PC



3PC 90° INDEXABLE END MILL SET
(nickel plated body)

Set includes:

- Carbide inserts for each end mill
- 3pc set contain:
1pc 3/8" x 1/2" x 3-1/2"
1pc 1/2" x 1/2" x 3-1/2"
1pc 5/8" x 1/2" x 3-1/2"
- 4pcs extra screws
- 1pc Torx wrench
- In a fitted Rose-plastic case



Item #0028-8308
\$185⁰⁰
set

END MILL

Cutter Diameter	Shank Size	OAL	Flutes	Insert	Insert Screw
3/8"	1/2"	3-1/2"	1	APKT11T3	M2.5 x 6
1/2"	1/2"	3-1/2"	1	APKT11T3	M2.5 x 6
5/8"	1/2"	3-1/2"	2	APKT11T3	M2.5 x 6

4PC 90° INDEXABLE END MILL SET
(nickel plated body)

GREAT

Set includes:

- Carbide inserts for each end mill
- 4pc set contain:
1pc 1/2" x 5/8" x 3-1/4"
1pc 5/8" x 5/8" x 3-1/4"
1pc 3/4" x 3/4" x 3-1/4"
1pc 1" x 3/4" x 3-1/4"
- 10pcs extra screws
- 10pcs extra APKT11T3 carbide inserts (TiN coated)
- 1pc Torx wrench
- In a fitted aluminum case



Item #0028-8416
\$394⁰⁰
set

END MILL

Cutter Diameter	Shank Size	OAL	Flutes	Insert	Insert Screw
1/2"	5/8"	3-1/4"	1	APKT11T3	M2.5 x 6
5/8"	5/8"	3-1/4"	2	APKT11T3	M2.5 x 6
3/4"	3/4"	3-1/4"	3	APKT11T3	M2.5 x 6
1"	3/4"	3-1/4"	4	APKT11T3	M2.5 x 6

INDEXABLE WELDON SHANK END MILL

Right-hand Heavy-duty cut
(nickel plated body)

ISO9001



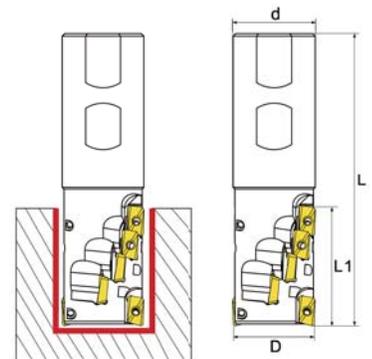
Features:

- 90° heavy-duty deep slotting
- Side milling, finishing and pocketing cutter
- Ideal for high-speed machining with low power consumption



5508-0006

Item	Cutting Dia. (D)	Shank Dia. (d)	OAL (L)	Flute Length (L1)	No. of Flutes	No. of Inserts	Insert	Insert Screw	Price
5508-0000	3/4"	3/4"	3-1/2"	1-3/32"	1	4	APKT11T3	M2.5 x 6	\$128.00/PC
5508-0002	1"	1"	4-1/4"	1-7/16"	2	8	APKT11T3	M2.5 x 6	\$252.00/PC
5508-0003	1-1/4"	1-1/4"	4-1/2"	1-3/4"	2	10	APKT11T3	M2.5 x 6	\$315.00/PC
5508-0004	1-1/2"	1-1/4"	5"	2-1/8"	2	14	APKT11T3	M2.5 x 6	\$438.00/PC
5508-0005	1-1/2"	1-1/4"	4-1/2"	1-11/16"	2	6	APKT1604	M4 x 8	\$237.00/PC
5508-0006	1-3/4"	1-1/2"	5-1/2"	2-1/4"	2	8	APKT1604	M4 x 8	\$329.00/PC
5508-0007	2"	1-1/2"	6"	2-1/4"	3	12	APKT1604	M4 x 8	\$402.00/PC
5508-0008	2"	1-1/2"	6-1/2"	2-13/16"	3	15	APKT1604	M4 x 8	\$499.00/PC
5508-0009	2"	2"	7"	3-1/4"	3	15	APKT1604	M4 x 8	\$499.00/PC



CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6156-1130	APKT11T3	\$5.40/PC
6156-1604	APKT1604	\$6.60/PC



6156-1604

CARBIDE INSERTS, PVD COATED, FOR CUTTING STAINLESS STEEL

Item	Size	Price
6856-1135	APMT1135PDER-M2	\$5.40/PC
6856-1604	APMT1604PDER-H2	\$6.60/PC



6856-1604

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6658-1130	APKT11T308-G2	\$5.40/PC
6658-1604	APKT160408-G2	\$6.60/PC



6658-1604

REPLACEMENT SCREWS

Item	Size	Price
0046-2506	M2.5 x 6	\$3.60/PC
0046-4008	M4 x 8	\$3.60/PC



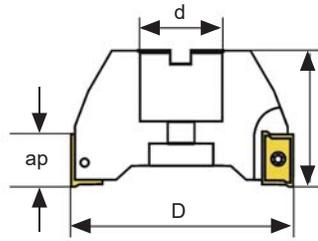
0046-2506

**90° SQUARE SHOULDER INDEXABLE FACE MILL & END MILL,
WITH APKT INSERTS**

GREAT **ISO9001**

Features:

- 90° cutting angle
- Screw down insert
- Radial rake angle: -10°
- All types of square shoulder face milling, side milling and full slot milling (shaft end mills) of steels, alloyed steels, stainless and heat resistant steels, cast irons and aluminum alloys
- Fitted with 10° positive rectangular inserts and allows a high depth of cut and feed per tooth
- Uses APKT / APHW / APKR / APHT / APMT inserts (sold separately)



FACE MILL (nickel plated body)

4508-0020

Item	Cutting Diameter (D)	Arbor Hole (d)	OAL (L)	ap	No. of Insert	Insert	Insert Screw	Price
4508-0012	2"	3/4"	1.75"	0.551"	5	APKT1604	M4 x 8	\$142.00/PC
4508-0016	2-1/2"	3/4"	2.00"	0.551"	6	APKT1604	M4 x 8	\$171.00/PC
4508-0018	3"	1"	2.00"	0.551"	7	APKT1604	M4 x 8	\$211.00/PC
4508-0020	4"	1-1/2"	2.00"	0.551"	8	APKT1604	M4 x 8	\$227.00/PC
4508-0022	5"	1-1/2"	2.00"	0.551"	8	APKT1604	M4 x 8	\$278.00/PC
4508-0024	6"	2"	2-31/64"	0.551"	10	APKT1604	M4 x 8	\$482.00/PC
4508-0026	8"	2-1/2"	2-31/64"	0.551"	12	APKT1604	M4 x 8	\$681.00/PC



0056-0917

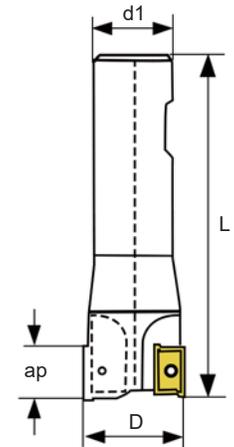


0056-0920

GREAT

END MILL (oxide finish body)

Item	Cutting Diameter (D)	Shank (d1)	OAL (L)	ap	No. of Insert	Insert	Insert Screw	Price
0056-0912	3/8"	1/2"	3"	0.433"	1	APKT11T3	M2.5 x 6	\$53.00/PC
0056-0913	1/2"	5/8"	3-1/4"	0.433"	1	APKT11T3	M2.5 x 6	\$53.00/PC
0056-0914	1/2"	1/2"	3-1/4"	0.433"	1	APKT11T3	M2.5 x 6	\$54.00/PC
0056-0916	5/8"	5/8"	3-1/4"	0.433"	2	APKT11T3	M2.5 x 6	\$66.00/PC
0056-0917	3/4"	3/4"	3-1/2"	0.433"	3	APKT11T3	M2.5 x 6	\$94.00/PC
0056-0920	1"	1"	3-1/2"	0.433"	4	APKT11T3	M2.5 x 6	\$127.00/PC
0056-0921	1"	1"	3-3/4"	0.551"	2	APKT1604	M4 x 8	\$97.00/PC
0056-0922	1-1/4"	1-1/4"	3-3/4"	0.551"	3	APKT1604	M4 x 8	\$127.00/PC
0056-0923	1-1/4"	1-1/2"	4-1/4"	0.433"	6	APKT11T3	M2.5 x 6	\$253.00/PC
0056-0924	1-1/2"	1-1/2"	4-1/4"	0.551"	4	APKT1604	M4 x 8	\$155.00/PC



CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Item	Size	Price
6156-1130	APKT11T3	\$5.40/PC
6156-1604	APKT1604	\$6.60/PC



6156-1604

CARBIDE INSERTS, PVD COATED, FOR CUTTING STAINLESS STEEL

Item	Size	Price
6856-1135	APMT1135PDER-M2	\$5.40/PC
6856-1604	APMT1604PDER-H2	\$6.60/PC



6856-1604

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Item	Size	Price
6658-1130	APKT11T308-G2	\$5.40/PC
6658-1604	APKT160408-G2	\$6.60/PC



6658-1604

REPLACEMENT SCREWS

Item	Size	Price
0046-2506	M2.5 x 6	\$3.60/PC
0046-4008	M4 x 8	\$3.60/PC



0046-4008

**3" DIA. 7 FLUTE, 90° SQUARE SHOULDER INDEXABLE FACE MILL WITH 7PC APKT1604 INSERTS
AND FACE MILL HOLDER**

GREAT

ISO9001



Item #4508-0018



Item #6780-7104
(Page 52, 131)



Item #0535-0001
(Page 52, 131)



Item #0538-0001

Item	Description	Price
7104-4518 (6780-7104 & 4508-0018)	3" Dia., 7 Flute, 90° Square Shoulder Indexable Face Mill, 7pcs APKT1604 Inserts Installed, with a Caterpillar V-Flange CAT40 Face Mill Holder	\$295.00/SET
IS40-4518 (0535-0001 & 4508-0018)	3" Dia., 7 Flute, 90° Square Shoulder Indexable Face Mill, 7pcs APKT1604 Inserts Installed, with an ISO40 Face Mill Holder	\$295.00/SET
NMTB-4518 (0538-0001 & 4508-0018)	3" Dia., 7 Flute, 90° Square Shoulder Indexable Face Mill, 7pcs APKT1604 Inserts Installed, with a NMTB40 Face Mill Holder	\$295.00/SET

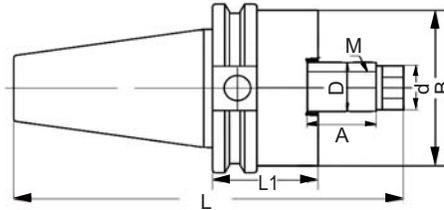


CATERPILLAR V-FLANGE SHELL END MILL HOLDER

ISO9001

Features:

- All "V" flange tooling are interchangeable with standard CAT40 / CAT50 machining centers
- Made from alloy steel hardened to HRC 52-56
- Taper accurately ground exceeding AT3 standard
- Drawbar thread: CAT40 5/8"-11
CAT50 1"-8
- TIR: 0.0002"



CAT40

Item	D	B	d	A	L1	L	M	Price
6780-7100	1/2"	1-3/8"	0.375"	9/16"	1-3/8"	4-5/8"	1/4"-28UNF	\$88.00/PC
6780-7102	3/4"	1-3/4"	0.563"	11/16"	1-3/8"	4-3/4"	3/8"-24UNF	\$93.00/PC
6780-7104	1"	2-1/4"	0.750"	11/16"	2-1/16"	5-7/16"	1/2"-20UNF	\$95.00/PC
6780-7106	1-1/4"	2-3/4"	0.940"	11/16"	2-1/8"	5-1/2"	5/8"-18UNF	\$110.00/PC
6780-7108	1-1/2"	3-3/4"	1.874"	15/16"	2-13/32"	6-1/32"	3/4"-16UNF	\$119.00/PC



CAT50

Item	D	B	d	A	L1	L	M	Price
6780-7110	1/2"	1-3/8"	0.375"	9/16"	1-1/2"	6-1/16"	1/4"-28UNF	\$119.00/PC
6780-7116	3/4"	1-3/4"	0.563"	11/16"	1-1/2"	6-3/16"	3/8"-24UNF	\$127.00/PC
6780-7122	1"	2-1/4"	0.750"	11/16"	2"	6-11/16"	1/2"-20UNF	\$132.00/PC
6780-7130	1-1/4"	2-3/4"	0.940"	11/16"	3-1/2"	8-3/16"	5/8"-18UNF	\$132.00/PC
6780-7136	1-1/2"	3-3/4"	1.874"	15/16"	4"	8-15/16"	3/4"-16UNF	\$161.00/PC

ISO40 SHELL MILL HOLDER

ISO9001

Features:

- TIR: 0.0002"

0535-0034

Item	Neck Dia.	Thread	Size of Arbors Screw		Price
			Dia.	Thread	
0535-0034	3/4"	5/8"-11	0.563"	3/8"-24UNF	\$84.00/PC
0535-0001	1"	5/8"-11	0.750"	1/2"-20UNF	\$88.00/PC
0535-0114	1-1/4"	5/8"-11	0.940"	5/8"-18UNF	\$95.00/PC

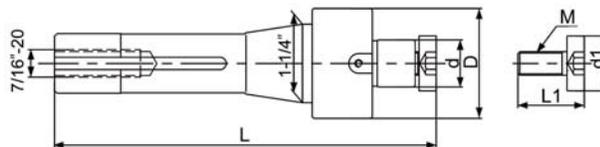


R8 PRECISION SHELL END MILL ADAPTOR

ISO9001

Features:

- For Bridgeport
- Drawbar thread: 7/16"-20
- TIR: 0.0003"
- Hold face mills

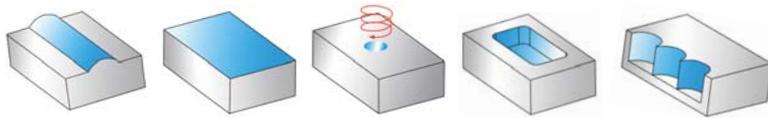
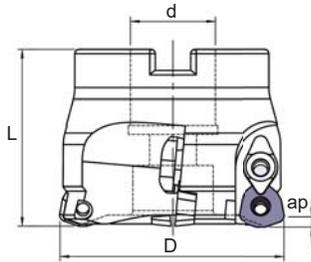


Item	D	L	Range Diameter	d (Screw)	L1 (Screw)	M	Price
FG22-8032	1/2"	5.90"	1-1/4" - 1-1/2"	0.375"	0.826"	1/4"-28UNF	\$76.00/PC
FG22-8048	3/4"	6.06"	1-3/4" - 2"	0.563"	1.063"	3/8"-24UNF	\$76.00/PC
FG22-8064	1"	6.10"	2-1/4" - 2-3/4"	0.750"	1.299"	1/2"-20UNF	\$88.00/PC
FG22-8080	1-1/4"	6.14"	3" - 3-1/2"	0.940"	1.535"	5/8"-18UNF	\$95.00/PC
FG22-8096	1-1/2"	6.41"	4" - 5"	1.874"	1.771"	3/4"-16UNF	\$109.00/PC

HIGH FEED FACE MILLS & END MILLS, WITH WPGT INSERTS

Features:

- Powerful & economic milling tools with double clamping and 3 corner-use inserts.
- Shorten machining cycle time.
- Longer tool life results from effective breaking of high resistance chips.
- Decrease cutting resistance and achieve high feed cutting.



GREAT

ISO9001



0028-8030



FACE MILL (nickel plated body)

Item	Cutting Diameter (D)	Arbor Hole (d)	OAL (L)	ap	Flute	Insert	Insert Screw	Clamp	Price
0028-8020	2"	3/4"	1.57"	0.059"	4	WPGT060415ZSR	M4 x 10	R6	\$196.00/PC
0028-8025	2-1/2"	3/4"	1.57"	0.059"	4	WPGT080615ZSR	M5 x 12	R6	\$241.00/PC
0028-8030	3"	1"	2"	0.059"	5	WPGT080615ZSR	M5 x 12	R6	\$266.00/PC
0028-8040	4"	1-1/2"	2"	0.059"	6	WPGT080615ZSR	M5 x 12	R6	\$429.00/PC

END MILL (oxide finish body)

Item	Cutting Diameter (D)	Shank (d1)	OAL (L)	ap	Flute	Insert	Insert Screw	Clamp	Price
0028-0034	3/4"	3/4"	6"	0.059"	2	WPGT050315ZSR	M3.5 x 8	R6	\$88.00/PC
0028-0001	1"	1"	6"	0.059"	3	WPGT050315ZSR	M3.5 x 8	R6	\$130.00/PC
0028-0114	1-1/4"	1-1/4"	6"	0.059"	4	WPGT050315ZSR	M3.5 x 8	R6	\$183.00/PC
0028-0115	1-1/4"	1-1/4"	6"	0.059"	3	WPGT060415ZSR	M4 x 8	R6	\$215.00/PC
0028-0112	1-1/2"	1-1/2"	6"	0.059"	5	WPGT050315ZSR	M3.5 x 8	R6	\$219.00/PC
0028-0113	1-1/2"	1-1/2"	6"	0.059"	4	WPGT060415ZSR	M4 x 8	R6	\$219.00/PC



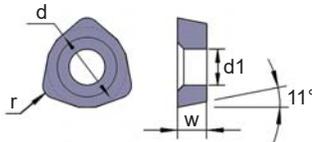
0028-0113



0028-0034

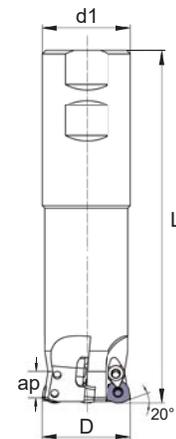


6105-0315



CARBIDE INSERTS, TIALN COATED, FOR CUTTING STEEL

Item	Size	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
6105-0315	WPGT050315ZSR	5/16"	0.137"	0.157"	0.059"	\$14.00/PC
6106-0415	WPGT060415ZSR	3/8"	0.165"	0.173"	0.059"	\$15.00/PC
6108-0615	WPGT080615ZSR	0.505"	1/4"	0.216"	0.059"	\$18.00/PC



Major cutting edge 1

- Optimal chip flow.
- Minimize cutting load.

Major cutting edge 2

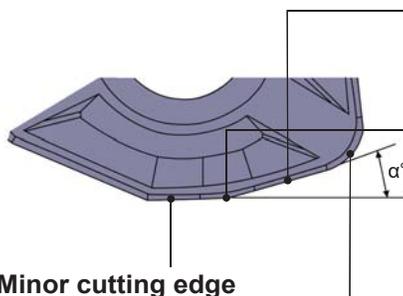
- Supporting major cutting edge 1.
- High rigidity of cutting edge.
- The embodiment of high feed cutting.
- The "un-cut" part is smaller than the round type button insert.

Nose-R

- Reinforced rigidity for side-face machining.
- Round (nose-R) edge line suitable for high feed.

Minor cutting edge

- Improves surface quality.
- Designed for decreasing thrust cutting force (load on the cutting tool).



REPLACEMENT SCREWS

Item	Size	Price
0046-3508	M3.5 x 8	\$3.60/PC
0046-4008	M4 x 8	\$3.60/PC
0046-4010	M4 x 10	\$3.60/PC
0046-5012	M5 x 12	\$3.60/PC



0046-5012

REPLACEMENT CLAMP

Item	Size	Price
0046-0006	R6	\$3.00/PC



**45° INDEXABLE FACE MILL WITH ONHU08T508 INSERTS, OCTAGONAL DOUBLE SIDE
16 CUTTING EDGE INSERTS**

(nickel plated body)

GREAT

ISO9001

Features:

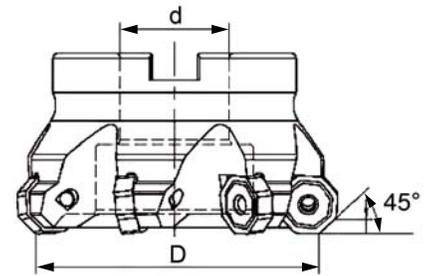
- Octagonal double side insert with 16 cutting edges is the most economical insert for face milling applications.
- Negative radial rake angle and axial rake angle structure combined with thick ONHU insert body improves cutters overall resistance to impact and toughness.
- Unique insert screw holes designed to improve clamping rigidity.
- Inserts available for semi-finishing and roughing application.
- Suitable for most face milling applications on steel, stainless steel, and cast iron.
- Reduces vibration on long overhang applications.
- Screw and wedge insert clamping.
- Depth of cut up to 0.196".



3300-1629



Item	Cutting Diameter (D)	Arbor Hole (d)	Flute	Insert	Insert Screw	Price
3300-1628	2-1/2"	3/4"	5	ONHU08T508	M5 x 12	\$329.00/PC
3300-1629	3"	1"	6	ONHU08T508	M5 x 12	\$373.00/PC
3300-1630	4"	1-1/2"	7	ONHU08T508	M5 x 12	\$439.00/PC
3300-1631	5"	1-1/2"	8	ONHU08T508	M5 x 12	\$491.00/PC
3300-1632	8"	2-1/2"	12	ONHU08T508	M5 x 12	\$758.00/PC



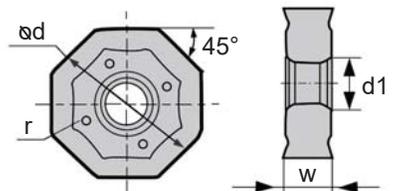
REPLACEMENT SCREW

Item	Size	Price
0046-5012	M5 x 12	\$3.60/PC



6800-0109

16 Cutting Edge per Insert



CARBIDE INSERT, TiAlN COATED, FOR CUTTING STAINLESS STEEL / CUTTING STEEL

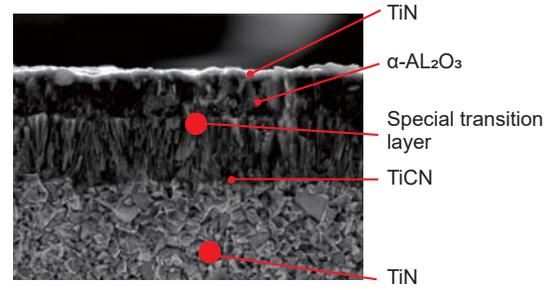
Item	Carbide Insert	Coated	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
6800-0109	ONHU08T508	TiAlN Coated	0.795"	0.227"	0.208"	0.032"	\$23.00/PC

CARBIDE INSERTS, CVD COATED BP6315, FOR CUTTING STEEL



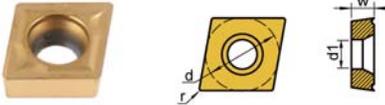
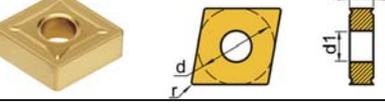
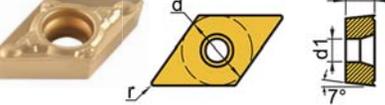
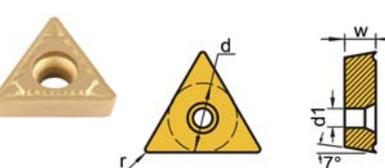
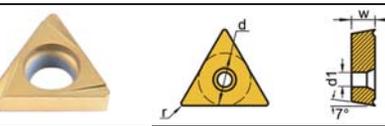
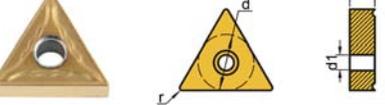
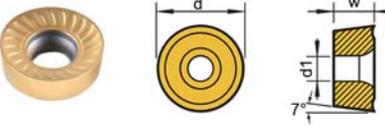
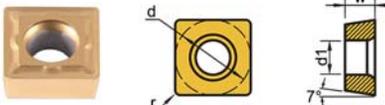
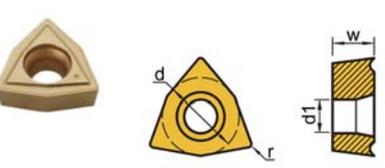
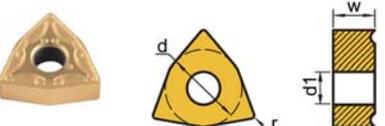
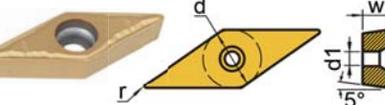
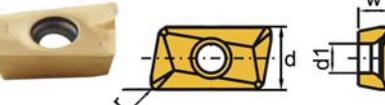
Features:

- Designed for finish turning applications.
- The substrate provides excellent resistance to thermal cracks, plastic deformation, and chipping.
- Advanced coating technology withstands high temperatures during machining, with or without coolant, ensuring a long tool life.
- Yellow TiN outer coating enhances performance and allows for easy identification of wear conditions, reducing downtime.
- Composite coatings increase wear resistance and extend the service life of cutting edges.
- TiCN improves coating adhesion, ensuring robust edge strength.
- Layered cemented carbide matrix delivers superior wear resistance, plastic deformation resistance, and edge toughness.

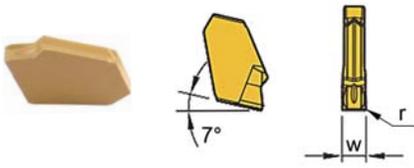
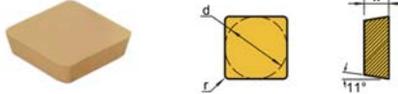
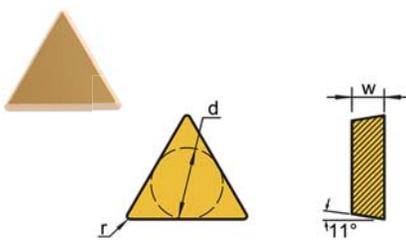
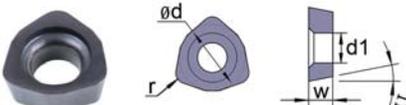


Carbide Insert	Item	Insert	ISO Designation	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
	6200-1008	CCMT21.51-P3	CCMT060204-P3	1/4"	3/32"	0.110"	1/64"	\$6.00/PC
	6200-1014	CCMT32.51-P3	CCMT09T304-P3	3/8"	5/32"	0.173"	1/64"	\$6.80/PC
	6200-1016	CCMT32.52-P3	CCMT09T308-P3	3/8"	5/32"	0.173"	1/32"	\$6.80/PC
	6200-1020	CCMT432-P3	CCMT120408-P3	1/2"	3/16"	0.216"	1/32"	\$8.60/PC
	6202-1016	CNMG432-P3	CNMG120408-P3	1/2"	3/16"	0.203"	1/32"	\$9.30/PC
	6202-1018	CNMG433-P3	CNMG120412-P3	1/2"	3/16"	0.203"	3/64"	\$9.30/PC
	6224-1010	DCMT21.51-P3	DCMT070204-P3	1/4"	3/32"	0.110"	1/64"	\$7.00/PC
	6224-1012	DCMT21.52-P3	DCMT070208-P3	1/4"	3/32"	0.110"	1/32"	\$7.00/PC
	6224-1014	DCMT32.51-P3	DCMT11T304-P3	3/8"	5/32"	0.173"	1/64"	\$8.00/PC
	6224-1016	DCMT32.52-P3	DCMT11T308-P3	3/8"	5/32"	0.173"	1/32"	\$8.00/PC
	6206-1026	DNMG332-P3	DNMG110408-P3	3/8"	3/16"	0.150"	1/32"	\$8.30/PC
	6206-1028	DNMG432-P3	DNMG150408-P3	1/2"	3/16"	0.203"	1/32"	\$10.00/PC
	6222-1058	SCMT432-P3	SCMT120408-P3	1/2"	3/16"	0.216"	1/32"	\$9.30/PC
	6224-1026	TCMT1.8(1.5)1-P3	TCMT090204-P3	0.225"	3/32"	0.098"	1/64"	\$6.60/PC
	6224-1028	TCMT21.51-P3	TCMT110204-P3	1/4"	3/32"	0.110"	1/64"	\$6.60/PC
	6224-0193	TCMT221-P3	TCMT110304-P3	1/4"	1/8"	0.110"	1/64"	\$6.60/PC
	6224-1034	TCMT32.51-P3	TCMT16T304-P3	3/8"	5/32"	0.173"	1/64"	\$7.50/PC
	6224-1036	TCMT432-P3	TCMT220408-P3	1/2"	3/16"	0.216"	1/32"	\$10.50/PC
	6222-1032	TNMG322-P3	TNMG160308-P3	3/8"	1/8"	0.150"	1/32"	\$8.00/PC
	6222-1034	TNMG332-P3	TNMG160408-P3	3/8"	3/16"	0.150"	1/32"	\$8.00/PC
	6222-1036	TNMG432-P3	TNMG220408-P3	1/2"	3/16"	0.203"	1/32"	\$10.00/PC
	6238-1026	VBMT221-P3	VBMT110304-P3	1/4"	1/8"	0.110"	1/64"	\$8.60/PC
	6238-1028	VBMT332-P3	VBMT160408-P3	3/8"	3/16"	0.173"	1/32"	\$9.50/PC
	6233-1018	WNMG332-P3	WNMG060408-P3	3/8"	3/16"	0.150"	1/32"	\$8.00/PC
	6233-1022	WNMG432-P3	WNMG080408-P3	1/2"	3/16"	0.203"	1/32"	\$8.00/PC

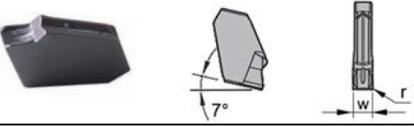
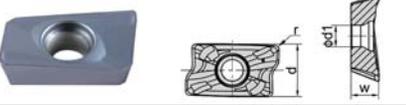
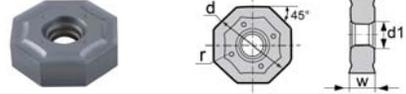
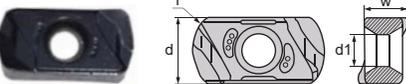
CARBIDE INSERTS, TIN COATED, FOR CUTTING STEEL

Carbide Insert	Item	Insert	ISO Designation	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
	6100-1008	CCMT21.51	CCMT060204	1/4"	3/32"	0.110"	1/64"	\$6.00/PC
	6102-1018 (=6202-1018)	CNMG433	CNMG120412	1/2"	3/16"	0.203"	3/64"	\$8.00/PC
	6104-1010 (=6224-1010)	DCMT21.51	DCMT070204	1/4"	3/32"	0.110"	1/64"	\$7.20/PC
	6104-1014 (=6224-1014)	DCMT32.51	DCMT11T304	3/8"	5/32"	0.173"	1/64"	\$7.60/PC
	6124-1026 (=6224-1026)	TCMT1.8(1.5)1	TCMT090204	0.225"	3/32"	0.098"	1/64"	\$6.00/PC
	6124-1028 (=6224-1028)	TCMT21.51	TCMT110204	1/4"	3/32"	0.110"	1/64"	\$6.60/PC
	6124-1034 (=6224-1034)	TCMT32.51	TCMT16T304	3/8"	5/32"	0.173"	1/64"	\$7.50/PC
	6124-1100	TCMT520	TCMT060102	5/32"	1/16"	0.086"	0.008"	\$9.50/PC
	6122-1034 (=6222-1034)	TNMG332	TNMG160408	3/8"	3/16"	0.150"	1/32"	\$8.00/PC
	6123-1000	RCMT220	RCMT0602MO	0.2362"	3/32"	0.110"	—	\$6.60/PC
	6123-1010	RCMT320	RCMT1003MO	0.3937"	1/8"	0.138"	—	\$7.50/PC
	6124-1058 (=6222-1058)	SCMT432	SCMT120408	1/2"	3/16"	0.216"	1/32"	\$9.30/PC
	6139-1020	WCMT2.52	WCMT050304	5/16"	1/8"	0.125"	1/64"	\$6.60/PC
	6139-1024	WCMT32.51	WCMT06T304	3/8"	5/32"	0.173"	1/64"	\$6.60/PC
	6139-1030	WCMT433	WCMT080412	1/2"	3/16"	0.169"	3/64"	\$7.60/PC
	6133-1021	WNMG431	WNMG080404	1/2"	3/16"	0.203"	1/64"	\$8.00/PC
	6133-1022 (=6233-1022)	WNMG432	WNMG080408	1/2"	3/16"	0.203"	1/32"	\$8.00/PC
	6138-1028 (=6238-1028)	VBMT332	VBMT160408	3/8"	3/16"	0.173"	1/32"	\$9.50/PC
	6156-1130	APKT11T3	APKT113508	0.244"	—	0.110"	1/32"	\$5.40/PC
	6156-1604	APKT1604	APKT160408	0.366"	—	0.173"	1/32"	\$6.60/PC

CARBIDE INSERTS, TIN / TIALN COATED, FOR CUTTING STEEL

Carbide Insert	Item	Insert	ISO Designation	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
	6103-2002	GTN-2	—	—	0.078"	—	0.008"	\$6.60/PC
	6103-2003	GTN-3	—	—	0.118"	—	0.008"	\$6.60/PC
	6103-2004	GTN-4	—	—	0.157"	—	0.009"	\$6.60/PC
	6103-2005	GTN-5	—	—	0.197"	—	0.011"	\$6.60/PC
	6103-2006	GTN-6	—	—	0.236"	—	0.014"	\$7.30/PC
		6103-4022	MGMN200	—	—	0.079"	—	0.008"
6103-4026		MGMN300	—	—	0.118"	—	0.009"	\$6.60/PC
	6152-0860	08ER A60	—	3/16"	0.087"	0.098"	—	\$14.20/PC
	6152-0015	11ER A60	—	1/4"	1/8"	0.120"	—	\$9.90/PC
	6152-0025	16ER AG60	—	3/8"	0.144"	0.156"	—	\$9.90/PC
	6136-1026	SPG422	SPGN120308	1/2"	1/8"	—	1/32"	\$6.50/PC
		6128-1026	TPU321	TPUN160304	3/8"	1/8"	—	1/64"
6128-1030		TPU323	TPUN160312	3/8"	1/8"	—	3/64"	\$5.50/PC
	6127-1022	TPG221	TPGN110304	1/4"	1/8"	—	1/64"	\$4.40/PC
	6127-1024	TPG222	TPGN110308	1/4"	1/8"	—	1/32"	\$4.40/PC
	6127-1025	TPG22	TPGN1103	1/4"	1/8"	—	—	\$4.40/PC
	6127-1026	TPG321	TPGN160304	3/8"	1/8"	—	1/64"	\$5.00/PC
	6127-1028	TPG322	TPGN160308	3/8"	1/8"	—	1/32"	\$5.00/PC
	6127-1029	TPG32	TPGN1603	3/8"	1/8"	—	—	\$5.00/PC
	6127-1032	TPG431	TPGN220404	1/2"	3/16"	—	1/64"	\$6.80/PC
	6127-1034	TPG432	TPGN220408	1/2"	3/16"	—	1/32"	\$6.80/PC
	6105-0315	—	WPGT050315ZSR	5/16"	0.137"	0.157"	0.059"	\$14.00/PC
	6106-0415	—	WPGT060415ZSR	3/8"	0.165"	0.173"	0.059"	\$15.00/PC
	6108-0615	—	WPGT080615ZSR	0.505"	1/4"	0.216"	0.059"	\$18.00/PC

CARBIDE INSERTS, PVD / TIALN COATED, FOR CUTTING STAINLESS STEEL

Carbide Insert	Item	Insert	ISO Designation	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
	6803-6002	GTN-2	—	—	0.078"	—	0.008"	\$6.60/PC
	6803-6003	GTN-3	—	—	0.118"	—	0.008"	\$6.60/PC
	6803-6004	GTN-4	—	—	0.157"	—	0.009"	\$7.00/PC
	6856-1135	APMT1135PDER-M2	—	0.244"	—	0.110"	1/32"	\$5.40/PC
	6856-1604	APMT1604PDER-H2	—	0.366"	—	0.173"	1/32"	\$6.60/PC
	6800-0109	—	ONHU08T508	0.795"	0.227"	0.208"	0.032"	\$23.00/PC
	6128-0001	LNMU030312R-JM	—	0.236"	0.154"	0.114"	0.047"	\$7.30/PC

CARBIDE INSERTS, FOR CUTTING ALUMINUM

Carbide Insert	Item	Insert	ISO Designation	I.C (d)	Cutting Width (w)	Hole (d1)	Radius (r)	Price
	6658-1130	APKT11T308-G2	—	0.242"	0.137"	0.110"	1/32"	\$5.40/PC
	6658-1604	APKT160408-G2	—	0.364"	0.187"	0.173"	1/32"	\$6.60/PC
	6600-1008	CCGT21.51-LH	CCGT060204-LH	1/4"	3/32"	0.110"	1/64"	\$6.00/PC
	6600-0005	CCGT32.50-LH	CCGT09T302-LH	3/8"	5/32"	0.173"	0.008"	\$6.50/PC
	6600-0001	CCGT32.51-LH	CCGT09T304-LH	3/8"	5/32"	0.173"	1/64"	\$6.50/PC
	6600-0002	CCGT32.52-LH	CCGT09T308-LH	3/8"	5/32"	0.173"	1/32"	\$6.50/PC
	6624-1022	TCGT1.8(1.5)1-LH	TCGT090204-LH	0.225"	3/32"	0.098"	1/64"	\$6.00/PC
	6624-1024	TCGT21.51-LH	TCGT110204-LH	1/4"	3/32"	0.110"	1/64"	\$6.60/PC
	6624-1034	TCGT32.51-LH	TCGT16T304-LH	3/8"	5/32"	0.173"	1/64"	\$7.80/PC
	6624-1100	TCGT520-LH	TCGT060102-LH	5/32"	1/16"	0.086"	0.008"	\$9.50/PC
	6639-1020	WCGT2.522-AF	WCGT050308-AF	5/16"	1/8"	0.133"	1/32"	\$9.90/PC
	6639-1024	WCGT32.52-AF	WCGT06T308-AF	3/8"	5/32"	0.157"	1/32"	\$9.90/PC
	6639-1036	WCGT432-AF	WCGT080412-AF	1/2"	3/16"	0.169"	3/64"	\$9.90/PC
	6624-1058	SCGT432-LH	SCGT120408-LH	1/2"	3/16"	0.216"	1/32"	\$7.80/PC
	6624-1000	RCGT220-AF	RCGT0602MO-AF	0.2362"	3/32"	0.110"	—	\$6.60/PC
	6624-1010	RCGT320-AF	RCGT1003MO-AF	0.3937"	1/8"	0.138"	—	\$7.50/PC
	6604-1010	DCGT21.51-LH	DCGT070204-LH	1/4"	3/32"	0.110"	1/64"	\$6.00/PC
	6604-1014	DCGT32.51-LH	DCGT11T304-LH	3/8"	5/32"	0.173"	1/64"	\$6.00/PC
	6638-1026	VBGT222-LH	VBGT110308-LH	1/4"	1/8"	0.110"	1/32"	\$6.20/PC
	6638-1028	VBGT332-LH	VBGT160408-LH	3/8"	3/16"	0.173"	1/32"	\$6.60/PC
	6603-8002	GTN-2LH	—	—	0.078"	—	0.008"	\$6.60/PC
	6603-8003	GTN-3LH	—	—	0.118"	—	0.008"	\$6.60/PC
	6603-8004	GTN-4LH	—	—	0.157"	—	0.009"	\$7.00/PC
	6603-4023	MGGN200-LH	—	—	0.079"	—	0.008"	\$6.00/PC
	6603-4027	MGGN300-LH	—	—	0.118"	—	0.009"	\$6.60/PC
	6600-0015	11ER A60-LH	—	1/4"	1/8"	0.120"	—	\$9.90/PC
	6600-0025	16ER AG60-LH	—	3/8"	0.144"	0.156"	—	\$9.90/PC

HR-150A 3R ROCKWELL HARDNESS TESTER

ISO9001

Features:

- Designed for accurately measuring the hardness of metals and alloys, from hard to soft materials, regardless of shape (flat, round, or irregular).
- Simple, user-friendly design ensures ease of operation while delivering precise and reliable results.
- Ideal for use in schools, laboratories, tool rooms, inspection departments, heat treatment facilities, and factories.
- Conforms to international standards **IS: 3804-1966** and **BS: 891-1962 (Part I & II)** for Rockwell testing.

Standard Accessories:

- 1pc 5-3/4" testing table
- 1pc 2-3/16" testing table.
- 1pc 2-3/16" testing table with "V" grooves
- 1pc 120° diamond indenter
- 1pc 1/16" tungsten carbide alloy ball indenter
- 1pc Rockwell A test block
- 1pc Rockwell B test block
- 3pcs Rockwell C test block
- 2pcs screwdriver
- 1pc complete instruction manual
- 1pc dustproof plastic cover

Loads and Indicators:

Maximum load.....	150Kg
Load range.....	60, 100, 150Kg
Initial load range.....	10Kg
Maximum test height.....	6.69"
Depth of throat.....	5.31"
Maximum depth of spindle below base.....	2"
Size of base.....	9.37"x17.56"
Machine height.....	24-2/5"
Approximate net weight.....	144lbs.

Item #RT90-0330
\$2348⁰⁰_{PC}



DIAMOND INDENTER FOR ROCKWELL HARDNESS TESTER DIAMOND 120°

Features:

- Rockwell hardness tester diamond 120°
- Cone angle: (a) diamond 120°
- R: 0.2mm
- The shank diameter: 1/4" (6.35mm)
- Total Length: 1.06" (27mm)
- Length includes the steps: 43/64" (17mm), shank: 25/64" (10mm)
- Accurate and precise readings

- Unmatched quality and precise accuracy.
- Provides micro finish and error-free performance.
- High durability for long-term use.
- Compatible with Rockwell C-scale measurements.



Item #0090-2000
\$206.00/PC



Item #0090-1000

Item	Description	Price
0090-1000	1/16" Tungsten Carbide Alloy Ball Indenter	\$98.00/PC

UNIVERSAL CUTTER GRINDER

Features:

- A versatile, cost-effective sharpener for grinding **HSS** and **solid carbide** tools, including end mills, drills, tool bits, and engraving cutters.
- Supports grinding of tools with various shapes, angles, and diameters, offering flexibility for different machining needs.
- Equipped with a fine feed adjustment on the grinding spindle for precise control.
- Compatible with **R8 collets** ranging from 1/16" to 1".

Item #2301-1007
\$1692⁰⁰_{set}

This price including all standard accessories.
Plus all the extra accessories. (CAD 631 Value)

Standard Accessories (1):

- 1pc wheel dresser with diamond
- 5pcs R8 collet 1/2", 1/4", 1/8", 3/8" & 5/16"
- 1pc drive belt
- 1pc lamp
- 1pc tools
- 1pc magnifier (5x)
- 1set operating information

Standard Accessories (2):



Technical Data:

Max. Collet Capacity.....	Φ1"
Max. Grinding Dia.	Φ 4"
Taper Angle	0° - 180°
Relief Angle.....	0° - 45°
Negative Angle	0° - 26°
Grinding Spindle	5200RPM
Cup Grinding Wheel ...	4" x 2" x 3/4"
Motor Volt	110V/60Hz
Net Weight.....	45kgs

Technical Note:

- Designed for grinding **HSS carbide engraving cutters, single-lip, and multiple-lip cutters** with specialized shapes, including radius and negative taper angles.
- Features a **universal index head** with 24 positions for achieving precise shape angles.
- Allows full 360° rotation for grinding end mills, twist drills, and lathe tools.
- Simplifies the process by enabling quick attachment changes without complex setups.



Extra Accessories:

Item	Description	Price
2301-1007-1	Diamond Grinding Wheel #320	\$91.00/PC
2301-1007-2	Diamond Grinding Wheel #600	\$109.00/PC
2301-1007-3	Regular Grinding Wheel PA80#	\$39.00/PC
2301-1007-4	Belt	\$12.00/PC
2301-1007-5	End Mill Grinding Attachment	\$142.00/PC
2301-1007-6	Lathe Tool Grinding Attachment	\$119.00/PC
2301-1007-7	Twist Drill Grinding Attachment	\$119.00/PC

DRO MILLING & LATHE MACHINE PACKAGE

ISO9001

IP53

Features:

- Two mounting brackets are located at each end of the scale.
- Zero setting.
- Half calculating, locating workpiece center.
- Inch/mm conversion and INC/ABS conversion.
- Diameter/radius selection.
- Simple & smooth "R" function.
- Divide the perimeter of circle # (Bolt Circle Drilling).
- Hole drilling along an oblique line.
- Save 200 work piece zero points.
- Angular surface processing.
- Progressive processing of rectangular inner chamber.
- Stops once the target value reaches.
- Cone measure.
- Takes 16 bits & 32 bits CPU technology.
- 200 cutter memory.
- Power failure memory.
- DC10-F series small size encoder.



SDS6-2V

D60 DIGITAL READOUT

Features:

- Voltage range: AC 80V-260V/50HZ-60HZ.
- Power consumption: 20VA.
- Coordinate number: 1/2/3.
- Display: 7-bit display with signed.
- Times frequency: 4X.
- Readout box input signal: TTL, ELA-422-A.
- Input frequency: >100KHZ.
- Resolution: 10µm, 5µm, 1µm, 0.5µm, & 0.1µm.
- Operating keyboard: light-touch buttons.
- Linear scale grating space: 0.04mm, 0.02mm, 0.01mm, the power supply is +5V. the difference between two and four TTL output signal is 90°.

Item	Description	Price
SDS6-2V	2-Axis Digital Scale Display	\$352.00/PC

2-AXIS DRO FOR MILLING MACHINES (X, Y)

GREAT

Includes:

- All mounting hardware.
- 2pcs linear glass scales.
- 1pc standard DRO counter (SDS6-2V).
- Operating manual.
- Mounting arms.

Item	Mill Size	Travel	Overall Length of Scale	Price
2028-1001	8 x 36"	12 x 30"	17 x 35"	\$724.00/SET
2028-1002	9 x 42"	14 x 30"	19 x 35"	\$748.00/SET
2028-1003	9 x 49"	14 x 36"	19 x 40"	\$748.00/SET
2028-1004	10 x 54"	16 x 40"	21 x 45"	\$748.00/SET



2028-1002

2-AXIS DRO FOR LATHE MACHINES (X, Y)

Includes:

- All mounting hardware.
- 2pcs linear glass scales (the cross slide scale is the slim style).
- 1pc standard DRO counter (SDS6-2V).
- Operating manual.
- Mounting arms.

Item	Lathe Size	Travel	Overall Length of Scale	Price
2810-2001	12 x 24"	6 x 30"	11 x 35"	\$748.00/SET
2810-2002	12 x 36" / 13 x 40"	8 x 40"	13 x 45"	\$758.00/SET
2810-2003	The same as the #2810-2002			\$758.00/SET
2810-2004	14 x 40" / 16 x 40"	10 x 40"	15 x 45"	\$758.00/SET
2810-2005	The same as the #2810-2004			\$758.00/SET
2810-9486	24 x 60"	14 x 60"	19 x 65"	\$1,188.00/SET



2810-2004

STANDARD GLASS SCALE (BED LENGTH LSE)

ISO9001

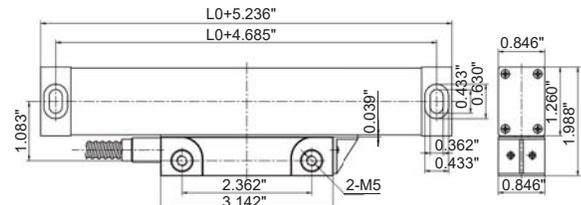


2800-0107

Features:

- Resolution 0.0002"/0.005mm.
- Max. response speeds: 47 in./sec.
- Aluminum outside case with double rubber seals.
- Standard 3m (9.84ft) connection cable.

Item	Travel	Ovl.L	Price
2800-0101	12.5"	17"	\$193.00/PC
2800-0102	14.5"	19"	\$193.00/PC
2800-0106	16"	21"	\$204.00/PC
2800-0107	24.4"	29"	\$204.00/PC
2800-0109	30"	35"	\$211.00/PC
2800-0111	36"	40"	\$218.00/PC
2800-0113	40"	45"	\$218.00/PC



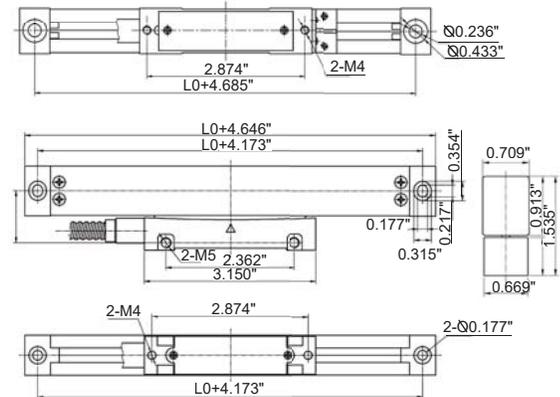
SLIM GLASS SCALE (FOR LATHE CROSS FEED)

ISO9001



2802-0204

Item	Travel	Ovl.L	Price
2802-0201	4.5"	9"	\$204.00/PC
2802-0202	6.5"	11"	\$204.00/PC
2802-0203	8.5"	13"	\$211.00/PC
2802-0204	10.5"	15"	\$218.00/PC



D80 DIGITAL READOUT

ISO9001

Features:

- Voltage range: AC80V-260V/50HZ-60HZ.
- Power consumption: 15W(D80, D100).
- Working temperature: -10°C - 60°C.
- Coordinate display: D80(Max.5 Axes).
- Times frequency: 4X.
- Input signal: 5v TTL/RS422.
- Input frequency: ≤4MHZ.
- Operating keypad: mechanical keypad.
- Resolution: 0.1µm, 0.2µm, 0.5µm, 1µm, 2µm, 2.5µm, 5µm, 10µm, & 50µm.
- RPM function.
- 7" true color LCD screen, easy to read.
- The DRO can save drawings, making the machining progress more convenient for the operators.
- After all the parameters are set, a preview of the machining work is available, which makes the machining easier.
- The DRO also displays the tool bits' current position during the machining process, which makes the machining process easier.
- Press the help button to get help when any troubles occur during the machining process.
- Operators can customize the shortcut keys according to personal habits.



D80-3V



D80-4V

Item	Description	Price
D80-3V	3 Axis Digital Readout, with 7" true color LCD Screen	\$655.00/PC
D80-4V	4 Axis Digital Readout, with 7" true color LCD Screen	\$713.00/PC

3-AXIS DRO FOR MILLING MACHINE ON KNEE (X, Y, Z)

Includes:

- All mounting hardware
- 3pcs Linear glass scales
- 1pc standard DRO counter (D80-3V)
- Operating manual
- Mounting arms

GREAT

ISO9001

Item	Mill Size	Travel	Overall Length of Scale	Price
3028-1230	9 x 40"	12 x 30 x 16"	17 x 35 x 21"	\$1,306.00/SET
3028-1232	9 x 42"	12 x 32 x 16"	17 x 37 x 21"	\$1,306.00/SET
3028-1236	9 x 49"	12 x 36 x 16"	17 x 41 x 21"	\$1,318.00/SET
3028-1240	9 x 58"	12 x 40 x 16"	17 x 45 x 21"	\$1,338.00/SET
3028-1632	10 x 42"	16 x 32 x 16"	21 x 37 x 21"	\$1,338.00/SET
3028-1636	10 x 54"	16 x 36 x 16"	21 x 41 x 21"	\$1,338.00/SET



3028-1632

4-AXIS DRO FOR MILLING MACHINE ON QUILL (X, Y, Z, U)

Includes:

- All mounting hardware
- 4pcs linear glass scales (the Vaxis scale is the slim style)
- 1pc standard DRO counter (D80-4V)
- Operating manual
- Mounting arms

ISO9001

Item	Mill Size	Travel	Overall Length of Scale	Price
4028-1632	10 x 42"	16 x 32 x 16 x 6"	21 x 37 x 21 x 10.6"	\$1,602.00/SET
4028-1636	10 x 54"	16 x 36 x 16 x 6"	21 x 41 x 21 x 10.6"	\$1,602.00/SET
4028-1640	10 x 58"	16 x 40 x 16 x 6"	21 x 45 x 21 x 10.6"	\$1,602.00/SET



4028-1636

1/4" RIGHT ANGLE DIE GRINDER WITH SOFT GRIP

GREAT **ISO9001**

Features:

- Lightweight aluminum housing with soft grip.
- Safety trigger prevents accidental start.
- The right-angle head provides easy access into tight spaces.
- Also available for 1/4" (6.35mm) collet optional.
- Use it with various of accessories for grinding, edge-breaking, deburring and polishing.
- Rear exhaust.

Item #AT07-0348
\$64⁰⁰
pc



MINIATURE PRECISION AIR DIE GRINDER

ISO9001

Features:

- Ideal for precision polishing, grinding, deburring, etc.
- Range: 1/8".
- Free speed: 54,000 RPM.
- Air hose (ID): 3/8".
- Working pressure: 90 PSI.
- Diameter: 0.6".
- Length: 5.2".
- Weight: 0.44lbs.

Item #AT00-3170
\$40⁰⁰
pc



3" AIR CUT OFF TOOL

ISO9001

Features:

- Range: 3".
- Free speed: 20,000 RPM.
- Air hose (ID): 3/8".
- Air inlet: 1/4" NPT.
- Weight: 1.70lbs.
- Working pressure: 90 PSI.
- Average air consumption: 4.5 CFM.
- Uses 3" cut-off wheels.

Item #AT02-2439
\$52⁰⁰
pc



1/4" MINI AIR DIE GRINDER

ISO9001

Features:

- Range: 1/4".
- Free speed: 25,000 RPM.
- Air hose (ID): 3/8".
- Air inlet: 1/4" NPT.
- Working pressure: 90 PSI.
- Average air consumption: 4.5 CFM.

Item #AT00-7032
\$46⁰⁰
pc



1/4" RIGHT ANGLE DIE GRINDER

ISO9001

Features:

- Range: 1/4".
- Free speed: 20,000 RPM.
- Weight: 1.20lbs.
- Recommended air pressure: 90 PSI.
- Average air consumption: 5.25 CFM.

Item #AT02-2437
\$57⁰⁰
pc



DIAMOND COATED ENGRAVING & DEBURRING SET

Features:

- Each set has 20 different tools, each in various sizes and styles. Lead for a wide range of tasks.
- 1/8" shank or 1/4" shank.
- Length: 1-3/4".
- Grit: 180.



EXP1-0050

Item	Shank Size	Piece in Set	Price
EXP1-0050	1/8"	20	\$16.00/SET
EXP1-0055	1/4"	10	\$16.00/SET

DIAMOND NEEDLE FILE SET

Features:

- Set of 10 diamond warding files in a wallet.

Shapes include:

- Round, flat, parallel, square, 3-square, half round, knife, crossing, oval, & crossing taper.

EXP7-2508



Item	Shank Size	Overall Length	Cutter Length	Price
EXP7-2506	5/64" (2mm)	4" (100mm)	1-1/2"	\$15.00/SET
EXP7-2507	1/8" (3mm)	5-1/2" (140mm)	2"	\$18.00/SET
EXP7-2508	3/16" (5mm)	7" (180mm)	2-7/8"	\$26.00/SET

Accusize Industrial Tools

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Richmond Hill, ON L4B 1E6
TEL: 647-933-1588 or 1-888-668-0012
www.accusizetools.com
E-mail: info@accusizetools.com



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All prices are **Canadian Dollars**.

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Order online: www.accusizetools.com
By phone: 647-933-1588 or 1-888-668-0012
By email: info@accusizetools.com

For most items that are in stock in GTA, we can dispatch the orders within 2 business days via UPS, Canada Post or FedEx. If you have a courier account with GLS Canada(DICOM), UPS, Purolator, Fedex, etc., we can ship the order under your account.

c). You can also purchase tools directly from our E-shop:



Payment:

We accept Visa, MasterCard, AMEX, company cheques, and Paypal payment. Our Paypal account is: info@accusizetools.com

Prices:

F.O.B. Toronto, ONTARIO unless advised otherwise. Minimum Order is over \$50.00 net, please

CLAIM:

Claims must be made within 5 days after receipt of merchandise. Large Item (Over 150LB) Return Policy Due to the expense of shipping heavy items, If it is a truck shipment, make sure the damage or short shipment is noted on the delivery receipt. Accusize Industrial Tools is not responsible for merchandise damaged or lost by motor freight carriers, If you accept a short or damaged shipment from the truck driver without proper notation by the driver, you accept it at your own risk.

STANDARD RETURN POLICY

Returns are available on all unused items sent back to us within 30 days of purchase. Items outside of this range can be either ineligible for a refund or will charge a re-stocking fee. All damaged, defective, or missing items must be reported within 5 days of delivery date. Please note that credit will not be issued for returned products showing signs of used, marked, altered or damaged.

HOW TO RETURN AN ITEM

If you are not satisfied with your purchase, you can return it at your cost for a refund within 30 days of your purchase. Please contact us at info@accusizetools.com or at 647 933 1588 or 1 888 668 0012 to get a Return Merchandise Authorization number (RMA) before returning your item. To avoid re-stocking fee, the return item must be in original case, with all of the accessory and document paper, and no visible marking on the items. The customer is responsible for all return shipping costs on non-defective items, please state in your packing slip the reason for return. Shipping charge is non-refundable. We are not responsible for any package loss or damage in the return process. Returned products must be in original package in the reasonable condition. To facilitate the issuance of credit, please have the date and the invoice number of your purchase order. We will either replace, refund or extend full credit within 30 days of received the return item.

RE-STOCKING FEE

In order to keep our prices low, we have to charge a re-stocking fee in certain instances to re-coup the cost associated with returns. A 15% re-stocking fee will be assessed in the following situations:

Returned orders still brand new but over 30 days after purchase

Returned products without the clean original package

Orders "Refused" without authorization.

Once we receive your return, please allow 14-Days for us to inspect and process your return.

Credit card and PayPal purchases will be refunded to the account you provided when you placed your order.

Business Hours:

Monday through Friday, 9:00am to 5:00pm.
Closed on public holidays.

Thank you for your support.

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**HSK63A HIGH PRECISION
HYDRAULIC CHUCK**

Item #8263-0012
(Page 61)
\$438⁰⁰_{pc}



BULL NOSE LIVE CENTER

Item #5312-1810
(Page 69)
\$284⁰⁰_{pc}



**5PC 0 FLUTE H.S.S.
COUNTERSINK & DEBURRING
TOOL SET, PILOTLESS TYPE**

Item #0206-0490
(Page 92)
\$92⁰⁰_{set}



**ELECTRONIC SCREW THREAD
MICROMETER**



Item #S916-C861
(Page 10) **\$388⁰⁰_{set}**

PLANER & SHAPER GAGE



Item #0536-3608
(Page 28) **\$208⁰⁰_{set}**

**6-JAW SELF-CENTERING
SCROLL LATHE CHUCK
(PLAIN BACK)**



Item #0559-0208
(Page 44) **\$693⁰⁰_{pc}**

**9PC INDEXABLE CARBIDE
TURNING TOOL AND
BORING BAR SET,
FOR CUTTING ALUMINUM**



Item #3988-0012
(Page 115)
\$316⁰⁰_{set}

**CAT40 HIGH PRECISION
HYDRAULIC CHUCK SET**



Item #8040-6058
(Page 62) **\$728⁰⁰_{set}**

**5C PRECISION ROUND COLLET
SET HARDENED & GROUND**



Item #0200-5552
(Page 66) **\$377⁰⁰_{set}**

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CanCNC

Tooling Solutions
a brand of Accusize Industrial Tools

Item #P900-S160

0-1"x0.001"
IP54 SHOCKPROOF
DIAL INDICATOR
PREMIUM GRADE



\$72⁰⁰
pc

Item #4920-1263

3D-TESTER ANALOG
SAVEplus INCH
WITH SHANK 1/2"



\$499⁰⁰
pc

Item #0000-8101

PREMIUM STEEL COMBINATION
SQUARE SET



\$128⁰⁰
set

Item #0028-6908

90 DEGREE R8 SHANK
INDEXABLE END MILL
WITH APKT1604
CARBIDE INSERT



\$208⁰⁰
pc

Item #0537-6438

PRECISION MEDIUM-DUTY LIVE
CENTER FOR GENERAL PURPOSE
ON MANUAL ENGINE LATHES



\$95⁰⁰
pc

Item #2627-9108

90 DEGREE,
INDEXABLE
BORING BAR SET



\$308⁰⁰
set

Item #0537-1208

PRECISION KEYLESS DRILL CHUCK,
HEAVY-DUTY WITH INTEGRATED
SHANK, TITANIUM JAWS



\$108⁰⁰
pc

Item #0028-8020

HIGH FEED FACE MILLS & END MILLS,
WITH WPGT INSERTS



\$196⁰⁰
pc

Item #FA23-5206

6" SUPER-LOCK PRECISION CNC
MACHINE VISE



\$428⁰⁰
pc

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