



GS-ADX-160G Precision Milling Machine Vise

The GS-ADX-160G replaces our very popular 327290M vise. It has been redesigned with new state-of-the-art workholding features.

- Jaw opening increased from 8.8" to 9.13"
- Same bed height as our 327290M: 2.875" ± 0.0005 "
- Narrower body style to allow more vises on a machine table
- The bearing pack has been relocated to help reduce oil / water / chip leakage into the vise body, thus improving the life time
- The thrust bearings have been replaced with ball bearings to make the pack stronger and more stable
- Same distance from the keyway to stationary as the 327290M
- ADX-160G weighs 68 lbs. vs. 80 lbs for the 327290M
- Spindle does not protrude past the end of the body
- Spherical segment creates all-directional alignment and reduces jaw lift for improved performance
- New brush seal design
- Perpendicularity (running face and jaw plate): 0.0004"
- Parallelism (running face to bottom of bed): 0.0006"
- Material: FCD-60 (80,000psi)
- New stationary jaw: 4 bolt stationary design reduces lift
- Pull-Type design: Reduces stress on body during clamping
- Chip evacuation: Straight through the body on sides and ends.
- Locations strategically chosen to not reduce body strength

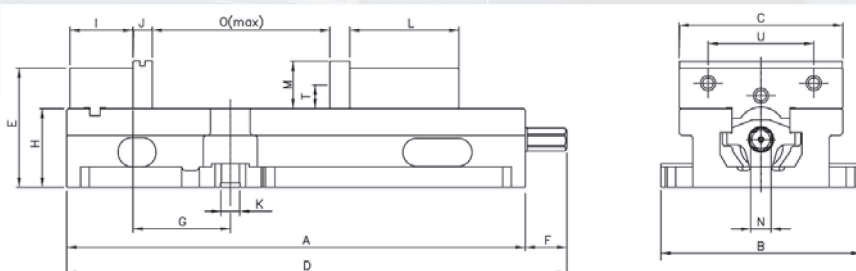
NEW AND IMPROVED



Code#: 327320

Reg. Price: \$589.50

\$475.00



COMPARE

GS-ADX-160G DIMENSIONS

mm/kg

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	Weight
GS-ADX-160G	427	186	151	466	111.025	39	90.53	73.025	58.7	18.42	17.46	101.6	44.5	19	231	23.8	98.4	31kg
Competitor	427	187.73	151	466	110.74	39	91.74	73.025	58.7	18.42	16.66	101.6	44.07	19	230.6	23.9	98.4	35.5kg

ER Collet Chucks



As Low As

\$110⁸⁵

See page 3

AGD2 Indicators

ASIMETO

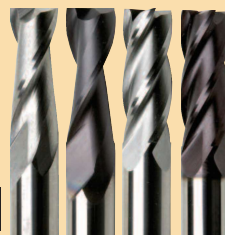


As Low As

\$25⁰⁴

See page 6

Solid Carbide End Mills



Starting At

\$4⁹⁰

See page 7

Warehouse Overstock



Wide Range Of Products
Marked Down To Move



See pages 10-11

COVID-19 UPDATE

The COVID-19 pandemic continues to create a great deal of difficulty and uncertainty in many lives and businesses across the globe. It is our sincere hope that you, your family, and your organization are healthy and safe. Sowa Tool is following the guidelines and precautions outlined by health authorities and our local governments so we can effectively operate our business while protecting the health of our associates, customers, and communities. We want to make sure that during these trying times we can give you peace of mind knowing we are here to help support you and your business when you need us.

• **Same Day Shipping** – With 93% same day service, you have access to a wide range of the products you need, when you need them. In addition, we have strengthened our partnerships with our logistics providers to ensure our delivery times to our customers are shrinking not expanding during these tumultuous times.

• **Manufacturing Capacity** – Every one of our manufacturing facilities and supply chain partners are open and fully functional. We are actively investing in several new product additions ensuring our portfolio continually represents high quality metalworking products at an exceptional value.

• **Inventory** – We know it is difficult and costly for our customers to carry additional inventory right now, let us manage that for you. We have bolstered our inventory levels over 40% this past year and our stock levels across Canada and the United States have never been stronger.

• **Customer Service** – Our experienced customer service team is available and ready to support you, ensuring that you come first every time.

Sowa stands with you, committed to doing our part to help keep manufacturing moving forward! Please stay safe, healthy, and let us know what else we can be doing to help you along the way. We will weather this storm together.

Sincerely yours,



Ryan Esposito, COO

Spindle Taper Wipers

Features:

- For easily and quickly cleaning spindle holes.
- Plastic body, the taper wiper is made of special cotton material therefore not damaging the spindle.
- The BT & DIN tapers are the same.



Model No.	Taper	Total Length	Code No.	Reg. Price \$	SALE Price \$
VTW-40	#40	159mm	326215	25.40	21.59
VTW-50	#50	265mm	326220	36.90	31.37



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CAT40 Shrink Fit Tooling w/ Coolant Ports



- 4 Coolant ports in the nose
- With threaded holes in order to balance with supplied balancing screws
- Pre-Balanced G2.5 up to 30,000 rpm
- For maximum gripping power with exceptional concentricity.
- Concentricity of ≤ 0.0001 " with tool shrunk in holder.
- Tool is gripped 360° along the entire length of bore resulting in an evenly distributed clamping force.

NEW



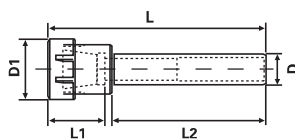
Taper	Hole Diameter	Gage Length	Code No.	Reg. Price \$	SALE Price \$
CAT40	1/8"	3.15"	541838	295.10	221.33
CAT40	1/4"	3.15"	541842	295.10	221.33
CAT40	1/4"	6.30"	541844	347.60	260.70
CAT40	3/8"	3.15"	541850	295.10	221.33
CAT40	3/8"	6.30"	541852	347.60	260.70
CAT40	1/2"	3.15"	541854	295.10	221.33
CAT40	1/2"	6.30"	541856	347.60	260.70
CAT40	3/4"	3.15"	541862	295.10	221.33
CAT40	3/4"	6.30"	541864	347.60	260.70
CAT40	1"	3.94"	541866	295.10	221.33

Full size range on promotion. See SowaTool.com

Straight Shank ER Collet Chucks



- Wrench not included

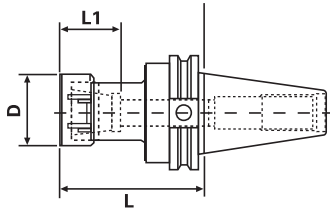


Collet Series	Collet Range	Shank Dia. (D)	D1	L	L1	L2	Code No.	Reg. Price \$	SALE Price \$
ER11	.019-.275"	1/2	0.740"	6.11"	0.091"	5.00"	534368	131.20	98.40
ER11	.019-.275"	5/8	0.740"	6.11"	0.091"	5.00"	534370	131.20	98.40
ER11	.019-.275"	3/4	0.740"	5.65"	0.091"	5.00"	534372	131.20	98.40
ER16	.019-.406"	5/8	1.26"	6.48"	1.28"	5.00"	534374	131.20	98.40
ER16	.019-.406"	3/4	1.26"	6.48"	1.28"	5.00"	534376	131.20	98.40
ER16	.019-.406"	1	1.26"	5.89"	1.28"	5.00"	534378	140.50	105.38
ER20	.039-.511"	3/4	1.38"	6.67"	1.48"	5.00"	534380	131.20	98.40
ER20	.039-.511"	1	1.38"	6.40"	1.48"	5.00"	534382	140.50	105.38
ER20	.039-.511"	1-1/4	1.38"	6.40"	1.48"	5.00"	534384	140.50	105.38
ER25	.039-.629"	3/4	1.65"	6.85"	1.65"	5.00"	534386	140.90	105.68
ER25	.039-.629"	1	1.65"	6.85"	1.65"	5.00"	534388	140.90	105.68
ER25	.039-.629"	1-1/4	1.65"	6.00"	1.65"	5.00"	534390	140.90	105.68
ER32	.078-.787"	1	1.97"	7.09"	1.85"	5.00"	534392	147.10	110.33
ER32	.078-.787"	1-1/4	1.97"	6.30"	2.13"	4.00"	337805	184.70	157.00
ER32	.078-.787"	1-1/4	1.97"	7.09"	1.85"	5.00"	534394	149.20	111.90

MACHINE TOOL ACCESSORIES

CAT40 ER Collet Chucks

- 100% Forged Construction
- CAT40 Certified balanced to G2.5 at 30,000 rpm
- Precision Ground Throughout
- DIN Coolant thru the flange - standard
- Threaded through holes for a back-up screw (tool stop) or coolant through when removed
- TIR, 0.0003" at 4xDia.
- Wrench not included



Complete with certificate

Taper	Collet Series	Collet Range	L	L1	D	Code No.	Reg. Price \$	SALE Price \$
CT40	ER11	0.019-0.275"	4.00"	0.65"	0.75"	531402	211.20	158.40
CT40	ER16	0.019-0.406"	2.50"	0.87"	1.26"	531406	169.20	126.90
CT40	ER16	0.019-0.406"	3.50"	0.87"	1.26"	531408	169.20	126.90
CT40	ER16	0.019-0.406"	4.00"	0.87"	1.26"	531405	171.00	128.25
CT40	ER16	0.019-0.406"	6.00"	0.87"	1.26"	531410	189.90	142.43
CT40	ER20	0.039-0.511"	2.50"	1.06"	1.38"	531412	168.30	126.23
CT40	ER20	0.039-0.511"	4.00"	1.06"	1.38"	531414	171.90	128.93
CT40	ER32	0.078-0.787"	2.50"	1.34"	1.97"	531421	180.90	135.68
CT40	ER32	0.078-0.787"	3.13"	1.34"	1.97"	531424	189.90	142.43
CT40	ER32	0.078-0.787"	4.00"	1.34"	1.97"	531423	180.90	135.68

Full size range on promotion. See page 26 of our Catalog

Replacement ER Chuck Nuts



Collet Nut for ER32 Shorty Collet Chuck

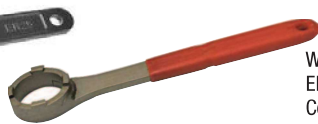
Description	Code No.	Steam Oxide		Balanced & Bright	
		Reg. Price \$	SALE Price \$	Reg. Price \$	SALE Price \$
ER11 Nut (Hex)	337680	32.40	24.30	534790	54.00 40.50
ER16 Nut (Hex)	337389	32.40	24.30	534792	56.60 42.45
ER20 Nut (Hex)	337391	32.40	24.30	534794	59.20 44.40
ER25 Nut (Notched)	337390	36.00	27.00	534796	61.70 46.28
ER32 Nut (Notched)	337392	35.10	26.33	534798	64.00 48.00
ER40 Nut (Notched)	337393	38.70	29.03	534800	66.90 50.18

ER32 Shorty Collet Nut

Fits ER32 Shorty Chucks (M40 x 1.5 Thread)

337411 72.90 **54.68**

ER Chuck Nut Wrenches



Wrench for ER32 Shorty Collet Chuck

Description	Code No.	Reg. Price \$	SALE Price \$
Fits ER11 Chucks (Hex)	337388	34.20	25.65
Fits ER16 Chucks (Hex)	337395	34.20	25.65
Fits ER20 Chucks (Hex)	337397	34.20	25.65
Fits ER25 Chucks (Notched)	337396	22.50	16.88
Fits ER32 Chucks (Notched)	337398	28.80	21.60
Fits ER40 Chucks (Notched)	337399	23.40	17.55

ER32 Shorty Chuck Wrench

Fits ER32 Shorty Chucks

337381 78.70 **59.03**

Standard ER Collets



Our ER collet system is made of special alloy steel material under excellent heat treatment and precise grinding process, so it has precise accuracy, powerful clamping ability, and is durable. This collet can clamp for a specific standard size and its next size. It can be widely used for boring, milling, drilling, and tapping as well as for grinding operation, and is available for all sizes.

- ER 16 collets collapse approximately 1/32" with full accuracy



ER 16 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/16"	337531	27.90	20.93
1/8"	337533	20.70	15.53
3/16"	337535	20.70	15.53
1/4"	337537	20.70	15.53
5/16"	337540	20.70	15.53
3/8"	337542	20.70	15.53

ER 32 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/8"	337703	24.30	18.23
1/4"	337708	24.30	18.23
3/8"	337713	24.30	18.23
1/2"	337718	24.30	18.23
5/8"	337723	24.30	18.23
3/4"	337727	24.30	18.23

Full size range on promotion. See pages 32-44 of our Catalog

5 Micron AA Ultra Precision ER Collets



- Alloy Steel

AA Collets have a runout of only 5 microns (0.005mm) compared to standard precision collets with up to 20 microns of runout.



ER 16 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/16"	336731	41.40	31.05
1/8"	336736	34.20	25.65
3/16"	336742	34.20	25.65
1/4"	336747	34.20	25.65
5/16"	336752	34.20	25.65
3/8"	336758	34.20	25.65

ER 32 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/8"	336854	37.80	28.35
9/32"	336867	37.80	28.35
3/8"	336875	37.80	28.35
1/2"	336885	37.80	28.35
5/8"	336895	37.80	28.35
3/4"	336906	37.80	28.35

Full size range on promotion. See pages 33-42 of our Catalog

5 Micron AA ER Collet Sets



The result of an improved AA collet in a quality chuck is increased gripping force, improved rigidity, decreased runout, and a renewed confidence in your collet chuck system.



Series	No. Pcs.	Range	Code No.	Reg. Price \$	SALE Price \$
ER11	Inch 7pc Set	1/16-1/4"	336992	246.20	184.65
ER11	Metric 13pc Set	1-7mm x 0.5mm	336986	459.00	344.25
ER16	Inch 11pc Set	1/16-3/8"	336993	386.10	289.58
ER16	Metric 10pc Set	1-10mm x 1.0mm	336987	346.50	259.88
ER20	Metric 12pc Set	2-13mm x 1.0mm	336988	450.90	338.18
ER20	Inch 15pc Set	1/16-1/2 x 1/32"	336994	556.70	417.53
ER25	Inch 17pc Set	1/8-5/8"	336995	684.90	513.68
ER25	Metric 15pc Set	2-16mm x 1.0mm	336989	571.50	428.63
ER32	Inch 21pc Set	1/8-3/4"	336996	793.80	595.35
ER32	Metric 18pc Set	3-20mm x 1.0mm	336990	680.40	510.30
ER40	Inch 15pc Set	1/8-1"	336997	607.50	455.63
ER40	Metric 23pc Set	3.5-26mm	336991	931.50	698.63

MACHINE TOOL ACCESSORIES

Positive Drive Tap Collets

Tap System #2

- Tap Collets are fully compatible with Bilz System #2. Size Range: 5/16" - 7/8" hand tap and 1/4" - 1/2" pipe tap



Tap Size	Tap System	Shank Dia.	Tap Shank	Square	Code No.	Reg. Price \$	SALE Price \$
5/16"	2	1.220"	0.318"	0.238"	337074	44.70	33.53
3/8"	2	1.220"	0.381"	0.286"	337076	44.70	33.53
7/16"	2	1.220"	0.323"	0.242"	337078	44.70	33.53
1/2"	2	1.220"	0.367"	0.275"	337080	44.70	33.53
9/16"	2	1.220"	0.429"	0.322"	337082	44.70	33.53
5/8"	2	1.220"	0.480"	0.360"	337084	44.70	33.53
11/16"	2	1.220"	0.542"	0.406"	337086	44.70	33.53
3/4"	2	1.220"	0.590"	0.442"	337088	44.70	33.53
13/16"	2	1.220"	0.652"	0.489"	337090	44.70	33.53
7/8"	2	1.220"	0.697"	0.523"	337092	44.70	33.53

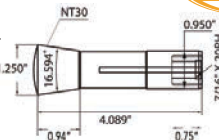
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Tap Size	Tap System	Shank Dia.	Tap Shank	Square	Code No.	Reg. Price \$	SALE Price \$
1/4"P	2	1.220"	0.562"	0.421"	337094	44.70	33.53
3/8"P	2	1.220"	0.700"	0.531"	337096	44.70	33.53
1/2"P	2	1.220"	0.687"	0.515"	337098	44.70	33.53

Full size range on promotion. See page 92 of our Catalog

R8 Collets

Manufactured of hardened and ground tool steel, these collets can be recommended for their accuracy and fine finish.



Size	Code No.	Reg. Price \$	SALE Price \$
1/8	325167	19.90	14.93
3/16	325177	19.90	14.93
1/4	325187	19.90	14.93
5/16	325197	19.90	14.93
3/8	325207	19.90	14.93
7/16	325217	19.90	14.93
1/2	325227	19.90	14.93
9/16	325232	19.90	14.93
5/8	325242	19.90	14.93
11/16	325252	19.90	14.93
3/4	325262	19.90	14.93

Full size range on promotion. See page 76 of our Catalog

Pull Studs

Pull studs (also called retention knobs) are the link between the machine drawbar and the toolholder.

Pulling forces can reach 3000 daN on SA 50 spindles, making the superior material and hardening quality of GS pull studs important.

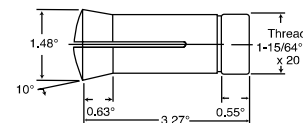


Taper	Model	Coolant Thru	Thread	Code No.	Reg. Price \$	SALE Price \$
BT40	GSC444X15	Y	M16x2	366004	28.80	25.34
BT40	GS444X45	N	M16x2	366006	21.60	19.01
CT40	GSC470X15	Y	5/8x11	366034	18.00	15.84
CT40	GSC474	Y	5/8x11	366038	18.00	15.84
CT40	GSC475	Y	5/8x11	366040	18.00	15.84
CT40	GS475	N	5/8x11	366042	18.00	15.84
CT40	GS532X45	N	5/8x11	366050	18.00	15.84
CT40	GSC532X45	Y	5/8x11	366058	18.00	15.84
CT50	GSC275	Y	1x8	366096	22.50	19.80
CT50	GSC536X45	Y	1x8	366104	22.50	19.80

Full size range on promotion. See page 135 of our Catalog

5C Collets

- Made of tool steel, hardened and ground to maintain original accuracy



Size	Code No.	Reg. Price \$	SALE Price \$
1/8	325317	19.90	14.93
1/4	325327	19.90	14.93
3/8	325337	19.90	14.93
1/2	325347	19.90	14.93
5/8	325357	19.90	14.93
3/4	325367	19.90	14.93
7/8	325377	19.90	14.93
1	325387	19.90	14.93

Full size range on promotion. See page 76 of our Catalog



High Performance Live Centers

- Each GS live center uses either a 3, 4, or 5 bearing system providing superior performance and tool life
- A special coating process for the lip seal contact area offers a higher sealing ability and reduces rotational friction
- Designed to prevent excessive heat even when rotating at maximum RPM, extending tool life
- Every GS center has passed at least 4 different accuracy tests to ensure the highest quality

CNC HIGH SPEED LIVE CENTERS



MT	Max RPM	Weight	Max Runout	Code No.	Reg. Price \$	SALE Price \$
2	5,000	1.54 lb	0.0001"	311011	449.30	336.98
3	5,000	1.73 lb	0.0001"	311012	449.30	336.98
4	3,800	4.06 lb	0.0001"	311013	585.00	438.75
5	3,000	9.30 lb	0.0001"	311014	806.30	604.73

INTERCHANGEABLE POINTS LIVE CENTERS

Every center comes with "H" insert



MT	Max RPM	Weight	Max Runout	Code No.	Reg. Price \$	SALE Price \$
3	5,000	1.76 lb	0.0002"	311020	617.30	462.98
4	3,800	3.74 lb	0.0002"	311021	927.80	695.85
5	3,000	8.58 lb	0.0002"	311022	993.80	745.35

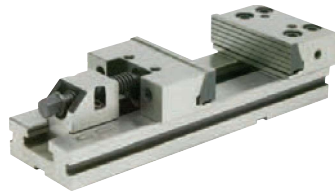


Call for other available points

See SowaTool.com for the full line.

GS Plain Base Modular Vises

Manufactured under rigid quality control. As a result of the high standard construction, GS Vises can be depended upon to maintain their accuracy under the most severe operating conditions. The modular design and the concept of interchangeability makes possible a wide variety of set up combinations.



Features/Benefits:

- High accuracy
- Unlimited clamping range
- High quality alloy steel
- High clamping pressure
- No jaw lift
- All vises are matched

Model	Jaw Width	Opening	Bed Height	Jaw Height	Code No.	Reg. Price \$	SALE Price \$
1	4"	4"	1.378"	1.2"	382005	760.80	650.00
2	5"	6"	1.575"	1.6"	382010	837.90	710.00
3	6"	8"	1.968"	1.97"	382015	913.80	775.00
3	6"	12"	1.968"	1.97"	382017	1,066.70	905.00
4	7"	12"	2.283"	2.4"	382025	1,371.30	1,165.00
4	7"	16"	2.283"	2.4"	382030	1,524.20	1,295.00
5	8"	12"	2.756"	2.6"	382040	1,983.10	1,685.00
5	8"	16"	2.756"	2.6"	382045	2,287.60	1,945.00
5	8"	20"	2.756"	2.6"	382050	2,745.20	2,330.00

Full size range on promotion. See page 141 of our Catalog

Bench Vises With Swivel

- Steel serrated jaws
- Heavy duty cast iron body



Jaw Size	Code No.	Reg. Price \$	SALE Price \$
4"	326785	43.70	34.96
5"	326790	68.60	54.88
6"	326795	134.20	107.36

Drill Press Vises

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



Jaw Width	Jaw Opening	Jaw Depth	Code No.	Reg. Price \$	SALE Price \$
3"	3"	1-1/8"	370206	43.20	32.40
4"	4"	1-3/8"	370211	56.40	42.30
5"	5"	1-1/2"	370216	99.30	74.48
6"	6"	1-1/2"	370221	115.60	86.70

Toolmakers Vises

- Solid one piece body
- Square and parallel within 0.0002" and 0.0003"
- Angled center channel provides extra jaw capacity

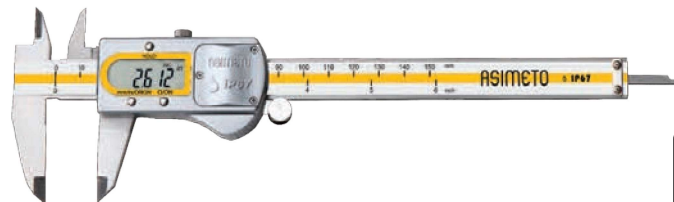


Model No.	Length (mm)	Width (mm)	Jaw Opening (mm)	Jaw Height (mm)	Code No.	Reg. Price \$	SALE Price \$
YCT-VB20	140	48	65	25	230815	79.20	63.36
YCT-VB25	170	63	90	35	230820	96.80	77.44
YCT-VB30	180	73	90	35	230825	105.00	84.00
YCT-VB35	225	88	125	45	230830	161.10	128.88

IP67 Coolant Proof Digital Calipers

ASIMETO

- Absolute function, there is no need to set the zero
- Hold function for easy reading
- Absolute or incremental measuring modes
- Inch/Metric conversion
- Metal Housing, the design will allow the caliper to be used in normal workshop conditions and is resistant to coolant, water, dust or oil
- Auto power on/off

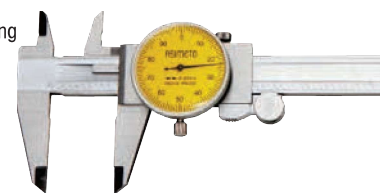


Range	Resolution	Accuracy	Code No.	Reg. Price \$	SALE Price \$
0-6" / 0-150mm	0.0005" / 0.01mm	±0.001"	7305062	159.80	127.84
0-8" / 0-200mm	0.0005" / 0.01mm	±0.0015"	7305082	244.90	195.92
0-12" / 0-300mm	0.0005" / 0.01mm	±0.0015"	7305122	294.90	235.92

Dial Calipers

ASIMETO

- Graduation: 0.001"
- Stainless steel construction with all measuring surfaces surface-hardened
- The dual pinion mechanism offers ultra smooth feel
- Preloaded pinion offers better repeatability
- Thumbwheel

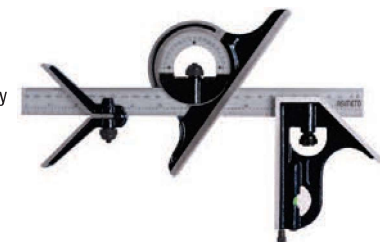


Range	Accuracy	Code No.	Reg. Price \$	SALE Price \$
0-6"	±0.001"	7303061	52.00	41.60
0-8"	±0.0015"	7303081	69.00	55.20
0-12"	±0.0015"	7303121	120.90	96.72

Combination Square Sets

ASIMETO

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



Description	Blade Length	Code No.	Reg. Price \$	SALE Price \$
4 pc Set (E/M ruler)	12"/300mm	7490208	137.00	109.60
4 pc Set (4R ruler)	12"	7490218	137.00	109.60

Micrometer Stand

ASIMETO

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

Code No.: 7109021

Reg. Price: \$32.70

\$26.16



PRECISION TOOLING

AGD2 Dial Indicators

ASIMETO



- Dial face dia. 2.20"
- Jeweled bearings
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer
- Easy to read dial face
- ISO17025 calibrated

Range	Grad.	Dial Reading	Range per Rev.	Stem Dia.	Code No.	Reg. Price \$	SALE Price \$
0-0.05"	0.0001"	10-0	0.01"	3/8"	7402011	80.80	64.64
0-0.25"	0.0005"	0-25-0	0.05"	3/8"	7402065	47.20	37.76
0-1"	0.0005"	0-50	0.05"	3/8"	7402265	37.60	30.08
0-0.25"	0.001"	0-100	0.1"	3/8"	7402061	31.60	25.28
0-1"	0.001"	0-100	0.1"	3/8"	7402261	31.30	25.04
0-1"	0.001"	0-50-0	0.1"	3/8"	7402263	37.60	30.08
0-2"	0.001"	0-100	0.1"	3/8"	7402511	72.50	58.00

Full size range on promotion. See page 196 of our Catalog

Standard Magnetic Bases

Features:

- Accepts test indicators with dovetail clamping mechanism
- For Indicators with 3/8" stems and or lug backs with 1/4" hole dia.
- On/Off switch
- 132 lbf magnetic pull



ASIMETO

Model	Pull Action	Code No.	Reg. Price \$	SALE Price \$
With 6" Rod and Universal clamp	132 lbf	7601011	27.50	22.00
With 6" Adjustable Rod / Fine Adjustment	132 lbf	7601021	25.50	20.40

Single Beam Digital Height Gages With Hand Wheel

- Resolution: 0.0005" / 0.01mm
- Large LCD display
- Hand wheel design for fine adjustment
- Inch/Metric conversion at any position
- Zero setting on any position
- Carbide tipped scriber provided
- Manual power On/Off



ASIMETO

Range	Accuracy	Code No.	Reg. Price \$	SALE Price \$
0-12"	±0.0015"	7626120	431.00	344.80
0-18"	±0.0015"	7626180	588.50	470.80
0-24"	±0.0020"	7626240	672.50	538.00

0-1" Digital Outside Micrometer w/ SPC

ASIMETO

- Resolution Digital: 0.00005"/ 0.001mm Scale: 0.0001"
- Dual Ratchet combines both the Ratchet Stop and Friction Thimble
- Protection level IP65

- Upon switch-on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Carbide tipped measuring faces

Code No.: 7105015

Reg. Price: \$164.00

\$131.20



Centering Indicator

ASIMETO

- Provides a simplified method of centering a work piece or fixture on horizontal for vertical machines, internal or external diameters. Face of indicator remains stationary in any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the machine table

- Shank Dia.: 3/8" / 10mm
- Operating speed not to exceed 800rpm
- Range: Internal: 5/32" - 12"/ 4 - 300mm External: Up to 12"/ 300mm
- Comes with calibration certificate



Dial Range	Graduation	Accuracy	Stem Dia.	Code No.	Reg. Price \$	SALE Price \$
0-0.15"	0.0005"	±0.0002"	0.375"	7469008	193.90	155.12

Bevel Steel Squares

ASIMETO

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



Inch Size	Metric Size	Squareness	Code No.	Reg. Price \$	SALE Price \$
3" x 2"	75 x 50mm	00	7639220	47.00	37.60
4" x 2.75"	100 x 70mm	00	7639230	54.10	43.28
6" x 4"	150 x 100mm	00	7639240	89.70	71.76
8" x 5"	200 x 130mm	00	7639250	115.00	92.00

Inch/Metric Thread Pitch Gage

ASIMETO

- Each individual leaf is stamped with the thread pitch size
- Includes 0.4 - 7mm & 4 - 42 TPI



Code No.: 7605508

Reg. Price: \$20.00

\$16.00

www.sowatool.com

CUTTING TOOLS

2 Flute Regular Length Carbide End Mills



A general purpose carbide end mill with maximum chip clearance added.

For: End Milling Slotting Sinking
On: Variety of Steels, Cast Iron
 Non-Ferrous metals, Plastics, Abrasive
 type materials



Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	SALE \$	TiAlN Code No.	SALE \$
1/32	1/8	1/8	1-1/2	103770	7.70	102677	10.10
3/64	1/8	9/64	1-1/2	103772	5.50	102799	10.60
1/16	1/8	3/16	1-1/2	103848	5.00	102800	7.90
5/64	1/8	1/4	1-1/2	103773	5.00	102801	9.60
3/32	1/8	5/16	1-1/2	103849	5.00	102802	7.90
7/64	1/8	3/8	1-1/2	103775	5.00	102803	9.60
1/8	1/8	1/2	1-1/2	103850	5.00	102804	7.70
9/64	3/16	1/2	2	103776	6.20	102805	9.60
5/32	3/16	9/16	2	103851	6.20	102806	14.90
11/64	3/16	9/16	2	103777	6.90	102807	14.90
3/16	3/16	5/8	2	103852	6.90	102808	9.40
13/64	1/4	5/8	2-1/2	103778	8.70	102809	19.60
7/32	1/4	5/8	2-1/2	103853	8.70	102811	17.20
1/4	1/4	3/4	2-1/2	103854	8.70	102810	10.90
9/32	5/16	3/4	2-1/2	103855	11.30	102813	22.50
5/16	5/16	13/16	2-1/2	103856	11.30	102812	15.70
11/32	3/8	7/8	2-1/2	103779	14.20	102815	29.10
3/8	3/8	1	2-1/2	103857	14.20	102814	18.70
13/32	7/16	1	2-3/4	103780	21.70	102817	39.50
7/16	7/16	1	2-3/4	103858	21.70	102816	25.60
1/2	1/2	1	3	103859	26.20	102818	31.10
9/16	9/16	1-1/8	3-1/2	103886	37.70	102820	42.70
5/8	5/8	1-1/4	3-1/2	103887	47.00	102822	48.80
11/16	3/4	1-3/8	4	103888	66.30	102824	66.40
3/4	3/4	1-1/2	4	103889	66.40	102826	74.50
7/8	7/8	1-1/2	4	103890	93.10	102828	101.90
1	1	1-1/2	4	103891	106.60	102830	115.80

4 Flute Regular Length Carbide End Mills



The industry standard. Wear resistance and minimal deflection for excellent size control.

For: Slotting, Production Milling, Profiling
On: Variety of Steels



Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	SALE \$	TiAlN Code No.	SALE \$
1/32	1/8	1/8	1-1/2	103781	7.70	102899	10.10
3/64	1/8	9/64	1-1/2	103782	5.50	102831	10.60
1/16	1/8	3/16	1-1/2	103870	5.00	102832	7.90
5/64	1/8	1/4	1-1/2	103783	4.90	102833	9.60
3/32	1/8	5/16	1-1/2	103871	5.00	102834	7.90
7/64	1/8	3/8	1-1/2	103784	5.00	102835	9.60
1/8	1/8	1/2	1-1/2	103860	5.00	102836	7.70
9/64	3/16	1/2	2	103785	6.20	102837	9.60
5/32	3/16	9/16	2	103861	6.20	102839	14.90
11/64	3/16	9/16	2	103786	6.90	102841	15.00
3/16	3/16	5/8	2	103862	6.90	102838	9.40
13/64	1/4	5/8	2-1/2	103787	8.70	102843	19.60
7/32	1/4	5/8	2-1/2	103863	8.70	102845	18.10
1/4	1/4	3/4	2-1/2	103864	8.70	102840	10.90
9/32	5/16	3/4	2-1/2	103865	11.30	102847	22.50
5/16	5/16	13/16	2-1/2	103866	11.30	102842	15.70
11/32	3/8	7/8	2-1/2	103789	14.20	102849	29.10
3/8	3/8	1	2-1/2	103867	14.20	102844	18.70
13/32	7/16	1	2-3/4	103790	21.70	102851	39.50
7/16	7/16	1	2-3/4	103868	21.70	102846	25.60
1/2	1/2	1	3	103869	26.20	102848	31.10
9/16	9/16	1-1/8	3-1/2	103933	37.70	102850	42.70
5/8	5/8	1-1/4	3-1/2	103934	47.00	102852	48.80
11/16	3/4	1-3/8	4	103935	66.30	102854	69.80
3/4	3/4	1-1/2	4	103936	66.30	102856	74.50
7/8	7/8	1-1/2	4	103937	93.10	102858	101.90
1	1	1-1/2	4	103938	106.60	102860	115.80

Orange Ring Spiral Point Taps



HSSE-V3% Vanadium

- Superior performance in Stainless Steel as well as Low & Medium Carbon Steels, Alloyed High Carbon
- Up to 35 HRC



• 4.5 PITCH LEAD (INTERMEDIATE)

Tap	TPI	No. Flutes	Thread Limits	OAL	Thread Length	Code No.	Reg. Price \$	SALE Price \$
2	56	2	H2	1-3/4	0.433	124926	23.80	17.85
3	48	2	H2	1-13/16	0.512	124927	20.30	15.23
4	40	2	H2	1-7/8	0.433	124930	15.10	11.33
8	32	3	H3	2-1/8	0.512	124932	12.70	9.53
10	32	3	H3	2-3/8	0.512	124945	12.90	9.68
1/4	20	3	H3	2-1/2	0.630	124934	14.10	10.58
1/4	28	3	H3	2-1/2	0.630	124946	14.10	10.58
5/16	18	3	H3	2-23/32	0.748	124935	15.30	11.48
5/16	24	3	H3	2-23/32	0.748	124947	15.30	11.48
3/8	16	3	H3	2-15/16	0.748	124936	17.20	12.90
3/8	24	3	H3	2-15/16	0.748	124948	17.20	12.90
7/16	14	3	H3	3-5/32	0.866	124937	22.20	16.65
7/16	20	3	H3	3-5/32	0.866	124949	22.20	16.65
1/2	20	3	H3	3-3/8	0.945	124950	26.00	19.50
5/8	16	3	H3	3-13/16	1.102	124951	47.60	35.70
3/4	16	3	H3	4-1/4	1.220	124952	75.40	56.55
1	8	3	H4	5-1/8	1.496	124942	130.50	97.88

Orange Ring Spiral Flute Taps



HSSE-V3% Vanadium

- Superior performance in Stainless Steel as well as Low & Medium Carbon Steels, Alloyed High Carbon
- Up to 35 HRC



• 2.5 PITCH LEAD (BOTTOMING)

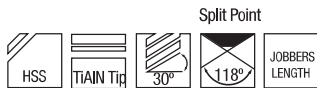
Tap	TPI	No. Flutes	Thread Limits	OAL	Thread Length	Code No.	Reg. Price \$	SALE Price \$
3	48	2	H2	1-13/16	0.512	124929	26.40	19.80
6	32	3	H2	2	0.313	124966	17.90	13.43
8	32	3	H2	2-1/8	0.313	124967	17.80	13.35
10	24	3	H3	2-3/8	0.417	124968	18.20	13.65
10	32	3	H3	2-3/8	0.417	124979	18.20	13.65
1/4	20	3	H3	2-1/2	0.500	124969	20.00	15.00
1/4	28	3	H3	2-1/2	0.500	124980	20.00	15.00
5/16	18	3	H3	2-23/32	0.556	124970	22.20	16.65
5/16	24	3	H3	2-23/32	0.556	124981	22.20	16.65
3/8	16	3	H3	2-15/16	0.625	124971	24.80	18.60
3/8	24	3	H3	2-15/16	0.625	124982	24.80	18.60
7/16	20	3	H3	3-5/32	0.714	124964	32.00	24.00
1/2	13	3	H3	3-3/8	0.769	124769	29.40	22.05
1/2	20	3	H3	3-3/8	0.769	124983	37.50	28.13
9/16	12	4	H3	3-19/32	0.880	124974	60.60	45.45
5/8	11	4	H3	3-13/16	0.909	124975	71.40	53.55
7/8	14	4	H4	4-11/16	1.111	124986	122.80	92.10

CUTTING TOOLS

HSS TiAlN Tip Jobber Length Drills



- A stronger self repairing coating leading to longer tool life compared to TiN Coating.
- TiAlN Tip also allows increased speeds and feeds.
- Over 50% more holes drilled than TiN Tip and 200% more than regular bright finish
- Covers a wider range of materials
- Maximum performance and cost savings over TiN Tip



Size	Decimal Equivalent	Flute Length	Overall Length	Code No.	Reg. Price \$	SALE Price \$
1/16	0.0625	13/16	1-3/4"	127001	1.00	0.75
3/32	0.0938	1-3/16	2-1/4"	127003	1.10	0.83
1/8	0.1250	1-7/16	2-9/16"	127005	1.60	1.20
5/32	0.1562	1-3/4	3"	127007	1.80	1.35
3/16	0.1875	2-1/16	3-7/16"	127009	2.00	1.50
7/32	0.2188	2-1/4	3-11/16"	127011	2.50	1.88
1/4	0.2500	2-1/2	4"	127013	2.90	2.18
9/32	0.2812	2-3/4	4-5/16"	127015	3.70	2.78
5/16	0.3125	3"	4-5/8"	127017	4.40	3.30
11/32	0.3438	3-1/4	4-15/16"	127019	5.50	4.13
3/8	0.3750	3-7/16	5-1/4"	127021	6.20	4.65
13/32	0.4062	3-7/16	5-1/4"	127023	7.30	5.48
7/16	0.4375	3-3/4	5-5/8"	127025	8.60	6.45
15/32	0.4688	4"	6"	127027	9.80	7.35
1/2	0.5000	4"	6"	127029	10.90	8.18

29pc Set 1/16" - 1/2" x 64ths 127050 145.40 **109.05**

Full size range on promotion. See page 279 of our Catalog

Promo S Noga Deburring Set - NG8150



For Steel, Aluminum & Plastic
Contains: Noga Grip 1 handle &
10pcs S10 (E100) blades



Model	Code No.	Reg. Price \$	SALE Price \$
NG8150 Deburring Set	165464	18.50	16.65

Fast Drill Re-Sharpener



Model DM213

Drill Diameter: 2mm - 13mm
Point Angle: 85° ~ 140°
R.P.M: 6,000 rpm
Weight: 10 kg

Standard Accessories

- ER20 Collets, ranged from 2.5mm-13mm (12pcs).
- CBN Diamond wheel #200 (for High Speed drill).
- 4mm and 5mm hexagon wrench



Code No.: 326130
Reg. Price: \$1,065.30

\$852.24

PRO Part-Off Kits



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



Kit Contents	Insert	Code No.	Reg. Price \$	SALE Price \$
PP-B326S 1" Blade (146232)	SP300 PT30C	149835	295.50	221.63
PP-B332S 1-1/4" Blade (146898)	SP300 PT30C	149836	295.50	221.63
PP-B432S 1-1/4" Blade (146454)	SP400 PT30C	147441	300.50	225.38

MCLNR Turning Kits



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



Application	Contents	Code No.	Reg. Price \$	SALE Price \$
Finishing (Steel)	1 - MCLNR16-4D (145828) 10 - CNMG432-F2 PT15C (149390)	149348	196.80	147.60
Med/Finish (Steel)	1 - MCLNR16-4D (145828) 10 - CNMG432-MM PT25C (149256)	149374	199.80	149.85
Medium (Cast Iron)	1 - MCLNR16-4D (145828) 10 - CNMA432 KT10C (147473)	148804	251.00	188.25



Model DM1226

Drill Diameter: 8mm - 30mm
Point Angle: 85° ~ 140°
R.P.M: 4,000 rpm
Weight: 25 kg

Standard Accessories

- ER 40 Collets, ranged from 12mm-26mm (15pcs).
Optional Collets 8~11mm, 27~30mm
- CBN Diamond wheel #200 (for High Speed drill).
- 4mm and 6mm hexagon wrench



Code No.: 326134
Reg. Price: \$2,438.80

\$1,951.04

Optical Style Height Presetter



- Height 50 mm
- With magnetic base
- The red lamp will light up when touched
- Accuracy 0.005 mm
- Combined vertical and horizontal in a unit
- Weight: 0.3 kg



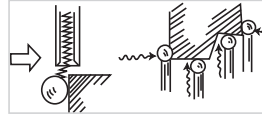
Model No.	Code No.	Reg. Price \$	SALE Price \$
HP-50ZM (Magnetic Base)	337970	341.00	289.85

Touch Point Sensor With Beeper



Model No. VPS-3/4B

- Unit will sound at the same time when the red lamp lights up
- Accuracy: within 0.005 mm



Shank Dia.	Ball Dia.	O.A.L.	Code No.	Reg. Price \$	SALE Price \$
3/4"	0.629"	6.18"	337962	148.30	111.23

1/4" Mini Die Grinder TP-1006



Specifications

- Air Inlet (N.P.T.): 1/4"
- Air Consumption (Loading): 13 cfm
- Exhaust System: Front
- Aluminum Alloy Housing



Horse Power	RPM	Collet Size	Air Pressure (psi)	O.A.L. (in.)	Net Weight (lb)	Code No.	Reg. Price \$	SALE Price \$
0.3	25,000	1/4"(6mm)	90	4-3/4	0.68	174012	40.90	30.68

1/4" Mini Die Grinder TP-1001



Specifications

- Air Inlet (N.P.T.): 1/4"
- Air Consumption (Loading): 14 cfm
- Exhaust System: Rear
- Aluminum Alloy Housing



Horse Power	RPM	Collet Size	Air Pressure (psi)	O.A.L. (in.)	Net Weight (lb)	Code No.	Reg. Price \$	SALE Price \$
0.3	22,000	1/4"(6mm)	90	6-7/8	1.36	174008	41.30	30.98

Arbor Presses

Removable rotating base-plate presses accommodate shafts and arbors with different diameters. With the pull of a lever, these presses deliver force for staking, riveting, and removing bearings and arbors. They have an adjustable-length arm to modify leverage.



Arbor Presses

Capacity Ton	Shipping Weight (lb)	Throat Depth	Height of Press	Base Dimensions	Largest Arbor	Size	Length	Stroke	Code No.	Reg. Price \$	SALE Price \$
1/2	22	2-7/8"	10"	4" x 9-1/2"	1-1/8"	3/4" x 3/4"	7-1/2"	4-1/2"	326090	100.80	75.60
1	37	3-1/4"	12"	5" x 11"	1-3/8"	1" x 1"	9-1/2"	5-1/4"	326092	145.40	109.05
2	86	5"	17"	6-3/4" x 17"	1-3/4"	1-1/4" x 1-1/4"	14"	8-1/2"	326094	334.00	250.50
3	152	5-3/4"	21-1/2"	8" x 18"	2-1/2"	1-1/2" x 1-1/2"	18"	12-1/2"	326096	584.00	438.00
5	308	8-3/4"	35-3/4"	10" x 26-3/4"	3-1/4"	2" x 2"	26-3/4"	18-1/8"	326098	1,667.70	1,250.78

Ratchet Type Arbor Press

Capacity Ton	Shipping Weight (lb)	Throat Depth	Height of Press	Base Dimensions	Max. Height	Largest Arbor	Size	Length	Stroke	Code No.	Reg. Price \$	SALE Price \$
3	152	5-3/4"	21-1/2"	8" x 18"	12-1/2"	2-1/2"	1-1/2" x 1-1/2"	18"	12-1/2"	326099	680.80	510.60

WAREHOUSE OVERSTOCK

CAT Taper Dual Contact ER Collet Chucks

- 100% forged construction
- Certified balanced @G2.5 up to 30,000 rpm
- Precision ground throughout
- DIN coolant thru the flange - standard
- Improves rigidity and reduces vibration allowing for increased feed rates and increased tool life. These chucks provide exceptionally high torque - up to three times the gripping strength of conventional drill chuck / taper holder combinations. The design eliminates any possibility of chuck / holder misalignment, and it ensures separation safety
- High precision, premium tolerance
- The jaws feature a TiN coated surface treatment to ensure durability



Complete with certificate

Taper	Collet Series	Collet Range	Gage Length	Nut Dia.	Tightening Torque (Nm)	Code No.	Reg. Price \$	SALE Price \$
CT40	ER16	0.019-0.413"	2.50"	1.26"	56.9	521406	203.10	132.02
CT40	ER32	0.078-0.787"	6.00"	1.97"	169.5	521425	247.40	160.81
CT50	ER16	0.019-0.413"	4.12"	1.26"	56.9	521432	252.80	164.32
CT50	ER32	0.078-0.787"	4.00"	1.97"	169.5	521454	247.40	160.81
CT50	ER32	0.078-0.787"	8.00"	1.97"	169.5	521458	341.30	221.85

Asimeto 5pc Precision Metrology Kit

ASIMETO

Kit contains:

- 6" x 0.0005" Sylvac Digital Caliper (7301060)
- 0.03" x 0.0005" Dial Test Indicator (7501733)
- 1" x 0.001" AGD2 Dial Indicator (7402261)
- 0-1" x 0.0001" Outside Micrometer (7101013)
- Articulating Arm Magnetic Base (7602021)

Code No.: 7960161

Reg. Price: \$516.20

\$375.00



High Performance Parabolic Cobalt Jobber Drills

Designed for deep hole drilling with extremely efficient chip evacuation, without the need for frequent drill withdrawal. A heavy web and parabolic flute shape provide increased stability enabling drilling of accurate straight holes up to 5 x D.



Size (in)	Size (mm)	Decimal Equiv.	Flute Length	Overall Length	Code No.	Reg. Price \$	SALE Price \$
5/64"	1.98	0.0781	24mm	49mm	134462	3.50	2.63
3/32"	2.38	0.0938	30mm	57mm	134467	4.00	3.00
7/64"	2.78	0.1094	33mm	61mm	134472	3.60	2.70
9/64"	3.57	0.1406	39mm	70mm	134482	4.30	3.23
3/64"	1.19	0.0469	16mm	38mm	134211	2.60	1.95
7/32"	5.56	0.2188	57mm	93mm	134507	10.20	7.65
	6.80	0.2677	69mm	109mm	134523	13.70	10.28
9/32"	7.14	0.2812	69mm	109mm	134527	12.80	9.60
19/64"	7.54	0.2969	75mm	117mm	134532	16.20	12.15
	8.00	0.3150	75mm	117mm	134538	13.10	9.83
	9.50	0.3740	81mm	125mm	134556	15.80	11.85
25/64"	9.92	0.3906	87mm	133mm	134562	19.90	14.93
13/32"	10.32	0.4063	87mm	133mm	134567	19.90	14.93
7/16"	11.11	0.4374	94mm	142mm	134577	24.40	18.30
	11.50	0.4528	94mm	142mm	134581	22.00	16.50
15/32"	11.91	0.4689	101mm	151mm	134587	26.10	19.58
31/64"	12.3	0.4882	101mm	151mm	134592	32.40	24.30
1/2"	12.7	0.5000	101mm	151mm	134597	24.60	18.45
9/16"	14.28	0.5625	114mm	169mm	134607	47.00	35.25
5/8"	15.87	0.6250	120mm	178mm	134612	56.40	42.30

HSS Ground Taps



- High speed steel
- 30° slow spiral ground thread



Size	Pitch	Style	Code No.	Reg. Price \$	SALE Price \$
5/16"	24	Spiral Point	113344	4.00	3.20
3/8"	16	Spiral Flute	113376	5.30	4.24
3/8"	24	Spiral Flute	113388	5.70	4.56
5/8"	11	Spiral Point	113318	12.80	10.24
5/8"	18	Spiral Point	113352	17.30	13.84
5/8"	18	Spiral Flute	113462	20.10	16.08
3/4"	16	Spiral Point	113353	49.70	39.76
1"	8	Spiral Point	113323	69.70	55.76

40 Taper Deluxe Tool Setting Stand



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

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

Code No.: 335250

Reg. Price: \$456.10

\$342.08



Ultra Precision Dial Gages

ASIMETO

- Made in Germany, high precision dial gage commonly used in the automotive industry for checking fixtures.
- Limited dial gage movement eliminates error caused by multiple rotations of the dial gage that may be missed by the operator
- Effective shockproof system for gage protection
- Pinions and shafts are jeweled to increase gage longevity
- Easy zeroing of the dial to the gage master
- Safety cap prevents unintentional movement
- Stem and spindle made of stainless steel and provide measurement sensitivity
- Tolerance markers are provided for easy reading interpretation
- Stem Diameter: Inch - 3/8" (4-48) Metric - 8mm (M2.5x0.45)



Range	Resolution	Accuracy	Repeatability	Code No.	Reg. Price \$	SALE Price \$
0.004"	0.00005"	0.00006"	0.000025"	7422211	418.20	299.99
0.1mm	0.001mm	0.0012mm	0.0005mm	7422212	418.20	299.99

3pc Outside Micrometer Set



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

Code No.: 200578

Reg. Price: \$84.20

\$71.57



CAT Taper End Mill Holders

- 100% forged construction
- Certified balanced @G2.5 up to 30,000 rpm
- Precision ground throughout
- DIN coolant thru the flange - standard



Taper	Hole Dia.	Gage Length	Spigot Dia.	Set Screw	Code No.	Reg. Price \$	SALE Price \$
CT40	5/16"	9.00"	0.87"	5/16-24	531011	203.30	152.48
CT40	7/16"	9.00"	1.38"	7/16-20	531033	203.30	152.48
CT40	1-1/4"	6.00"	2.48"	3/4-16	531064	170.00	127.50
CT50	1/4"	1.38"	0.79"	1/4-28	531082	127.80	95.85
CT50	1/4"	8.00"	0.79"	1/4-28	531090	224.50	168.38
CT50	3/8"	14.00"	1.00"	3/8-24	531107	670.90	503.18
CT50	7/16"	6.00"	1.38"	7/16-20	531112	160.60	120.45
CT50	3/4"	14.00"	1.89"	5/8-18	531145	670.90	503.18
CT50	1-1/2"	9.00"	2.99"	3/4-16	531174	541.70	406.28

* Stubby

Reinforced Depressed Center Discs For Steel

A. (Type 27)

- Approved by CNS standard No. 2551
- German DSA standard No. 2335



TAILIN



Dimensions	Specification	RPM	Code No.	Reg. Price \$	SALE Price \$
4 x 1/8 x 5/8"	A24R2G	15300	635600	1.20	0.90
4 x 1/8 x 5/8"	A24S2G	15300	635602	1.20	0.90
4 x 1/4 x 5/8"	A24R2G	15300	635604	1.40	1.05
4 x 1/4 x 5/8"	A24S2G	15300	635606	1.40	1.05
4-1/2 x 1/8 x 7/8"	A24R2G	13300	635608	1.70	1.28
4-1/2 x 1/8 x 7/8"	A24S2G	13300	635610	1.70	1.28
4-1/2 x 1/4 x 7/8"	A24S2G	13300	635612	1.90	1.43
7 x 1/8 x 7/8"	A24R2G	8500	635622	2.90	2.18
7 x 1/8 x 7/8"	A24S2G	8500	635624	2.90	2.18

6" Versatile Vise

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



Code No.: 382620
Reg. Price: \$837.00

\$703.08

1-800-265-8221

5pc Variable Helix 4 Flute Carbide End Mill Set

- Helix changes along flutes
- Increased stability during cutting action
- Substantial increase in speed
- Small corner radius for added strength and smoother cutting action
- AlTiN coated for improved tool life and increased production output
- Made from premium submicron grain carbide
- Contains: 3/16, 1/4, 5/16, 3/8, 1/2

Nahanni
VARIABLE HELIX CARBIDE END MILLS



Code No.: 153005

Reg. Price: \$140.90

\$123.99

HSS Straight Flute Chucking Reamers



For general purpose reaming of almost any metal, in drill presses, turret lathes or screw machines.

- Cutting ends are ground with a 45° chamfer for easy hole entry
- Built for machine use, with shorter, deeper flutes than hand reamers
- Right Hand Spiral
- Right Hand Cut
- H7 Tolerance



Flute Dia. (in.)	Decimal Equiv. (in.)	Flute Length	Overall Length	Code No.	Reg. Price \$	SALE Price \$
9/64	0.1460	1	4	110112	11.10	7.77
11/64	0.1719	1-1/8	4-1/2	110122	11.10	7.77
13/64	0.2031	1-1/4	5	110132	13.20	9.24
7/32	0.2187	1-1/4	5	110137	12.90	9.03
15/64	0.2344	1-1/2	6	110142	13.20	9.24
9/32	0.2812	1-1/2	6	110157	14.90	10.43
19/64	0.2969	1-1/2	6	110162	9.70	6.79
21/64	0.3281	1-1/2	6	110172	16.80	11.76
25/64	0.3906	1-3/4	7	110192	17.60	12.32
13/32	0.4062	1-3/4	7	110197	18.10	12.67
27/64	0.4219	1-3/4	7	110202	19.10	13.37
11/16	0.6875	2-1/4	9	110282	30.70	21.49
15/16	0.9375	2-5/8	10	110322	49.70	34.79
1-3/8	1.3750	3-1/4	12	110362	102.40	71.68

Twin Column Digital Height Gage



- Rigid twin column structure
- 6 digit LCD display and minus sign
- Functions include: Zero setting, inch/mm conversion, data hold, plus/minus processing
- Large size feed wheel
- Lock-on measuring slider
- Battery furnished
- Carbide tipped scriber



Range	Resolution	Accuracy	Code No.	Reg. Price \$	SALE Price \$
12" / 300mm	0.001"/0.01mm	±0.04mm	200675	439.70	373.75

www.sowatool.com

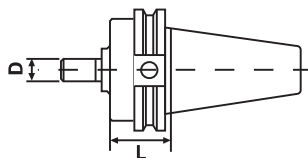
Super Heavy Duty Ball Bearing Drill Chucks



GS Ball Bearing Chucks are specially designed for HEAVY DUTY drilling applications on production drilling machines, jig borers, milling machines, lathes and radials. The ideal choice for those jobs that require close tolerance drilling. The ball thrust bearing reduces friction in the chuck's closing mechanism, so the operator can apply more gripping power on the twist drill shank.

- High precision, premium tolerance
- The jaws feature a TiN coated surface treatment to assure durability.

Chuck Model	Capacity	Mount	Code No.	Reg. Price \$	SALE Price \$
13BXH	3/64-1/2"	JT6	536500	84.50	63.38
16BXH	3/64-5/8"	JT3	536502	105.70	79.28
19BXH	3/64-3/4"	JT4	536504	137.30	102.98



CAT Taper Adapters

Taper	JT Size	L	D	Code No.	Reg. Price \$	SALE Price \$
CT40	JT#3	1.61"	0.560"	531492	102.60	76.95
CT40	JT#4	1.58"	0.812"	531494	102.60	76.95
CT40	JT#6	1.49"	1.13"	531496	102.60	76.95
CT50	JT#3	1.61"	0.560"	531502	135.40	101.55
CT50	JT#4	1.58"	0.812"	531504	135.40	101.55
CT50	JT#6	1.49"	1.13"	531506	135.40	101.55



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