



## Looking for some Hot Deals? Check out our Warehouse Sale on pages 18-19



### SOWA Yellow Ring HSSE-V3 Spiral Point Taps

#### HSSE-V3% Vanadium

- Superior performance in hardened tool steels such as 4140, 4340, H13, D2.
- Up to 35 HRC

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

- 4.5 Pitch lead (Intermediate)



Inch

Tap	Overall Length (in.)	Thread Length (in.)	Code No.	Reg. Price \$	SALE Price \$
6-32	2	0.512	123-300	11.00	<b>7.15</b>
8-32	2-1/8	0.512	123-302	11.00	<b>7.15</b>
10-24	2-3/8	0.512	123-304	11.00	<b>7.15</b>
10-32	2-3/8	0.512	123-338	11.00	<b>7.15</b>
1/4-20	2-1/2	0.630	123-308	12.10	<b>7.87</b>
5/16-18	2-23/32	0.748	123-310	13.60	<b>8.84</b>
3/8-16	2-15/16	0.748	123-312	15.40	<b>10.01</b>

Metric

Tap	Overall Length (in.)	Thread Length (in.)	Code No.	Reg. Price \$	SALE Price \$
M4 x .7	2-1/8	0.512	123-507	15.20	<b>9.88</b>
M5 x .8	2-3/8	0.512	123-509	15.20	<b>9.88</b>
M6 x 1	2-1/2	0.630	123-510	15.20	<b>9.88</b>
M8 x 1.25	2-23/32	0.748	123-513	17.10	<b>11.12</b>

Full size range on promotion. See page C8 of our Catalogue



### Shrink Fit Tooling with Coolant Ports

**NEW**



Page 13

Tool Steels	Cutting Speed (fpm)									
	10	20	30	40	50	60	70	80	90	100
Medium Carbon										
Alloyed High Carbon										
High Strength										
Titanium										
Aluminum										

Tool Steels	Hardness (hrc)									
	0	5	10	15	20	25	30	35	35	40
Medium Carbon										
Alloyed High Carbon										
High Strength										
Titanium										
Aluminum										



### CNC HIGH SPEED LIVE CENTRES



**NEW**

Page 9



### TPU-PTM30U Carbide Inserts



AS LOW AS  
**\$5.11**

Page 6

### ASIMETO

### IP67 Coolant Proof Digital Calipers



AS LOW AS  
**\$147.63**

Page 17



### 4 Flute Regular Length Carbide End Mills



SAVE UP TO  
**30%**

Page 3

# 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

## TABLE OF CONTENTS

- Cutting Tools**.....Pages 2-7
- Abrasives**.....Page 8
- Machine Tool Accessories**.....Pages 9-14
- Precision Tooling**.....Pages 15-17
- Warehouse Sale**.....Pages 18-19

### Blue Ring HSSE-V3 Spiral Point Taps

- Used in general machine tapping applications for mild carbon steels such as 1018, 1010, 1035, 1045, 1050 and 1065
- Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production or conventional tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.

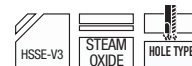
Tap	Overall Length (in.)	Thread Length (in.)	Code No.	Reg. Price \$	SALE Price \$
6-32	2	0.512	119-701	6.70	<b>5.36</b>
10-32	2-3/8	0.512	119-724	6.70	<b>5.36</b>
1/4-20	2-1/2	0.630	119-707	6.70	<b>5.36</b>
5/16-18	2-23/32	0.748	119-709	7.20	<b>5.76</b>
3/8-16	2-15/16	0.748	119-711	8.60	<b>6.88</b>
7/16-14	3-5/32	0.866	119-712	14.70	<b>11.76</b>

Tap	Overall Length (in.)	Thread Length (in.)	Code No.	Reg. Price \$	SALE Price \$
M4 x .7	2-1/8	0.512	119-754	9.50	<b>7.60</b>
M5 x .8	2-3/8	0.512	119-756	9.50	<b>7.60</b>
M6 x 1	2-1/2	0.630	119-757	9.50	<b>7.60</b>
M8 x 1.25	2-23/32	0.748	119-760	11.00	<b>8.80</b>
M12 x 1.75	3-3/8	0.945	119-764	22.10	<b>17.68</b>

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



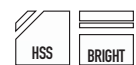
**While Supplies Last**



Full size range on promotion. See page C4 of our Catalogue

### Hand Taps - Taper

High Speed Steel for hand tapping of through or blind holes in ferrous and non-ferrous alloys.



Tap	No. Flutes	Thread Limits	Overall Length	Thread Length	Code No.	Reg. Price \$	SALE Price \$
8-32	4	H3	2-1/8"	0.750"	123-038	6.50	<b>3.25</b>
1/4"-20	4	H3	2-1/2"	1.000"	123-116	7.20	<b>3.60</b>
5/16"-18	4	H3	2-23/32"	1.125"	123-122	8.80	<b>4.40</b>
3/8"-16	4	H3	2-15/16"	1.250"	123-128	10.00	<b>5.00</b>
1/2"-13	4	H3	3-3/8"	1.656"	123-140	18.00	<b>9.00</b>
5/8"-11	4	H3	3-13/16"	1.813"	123-152	36.00	<b>18.00</b>



## HSS Adjustable Round Split Dies

- Constructed as slotted round cutters with an adjusting screw that forces the side of the die apart, enabling the die to cut all standard classes of thread fit
- Screw can be removed to permit adjustment through the adjusting screw in the machine holder
- The opening of dies are chamfered on both faces

### Coarse Threads

Size	TPI	Code No.	Reg. Price \$	SALE Price \$
<b>1" O.D.</b>				
1/4"	20	140-380	18.00	<b>13.50</b>
3/8"	16	140-390	18.00	<b>13.50</b>
<b>1-1/2" O.D.</b>				
3/8"	16	140-415	30.30	<b>22.73</b>
1/2"	13	140-425	30.30	<b>22.73</b>
5/8"	11	140-435	30.30	<b>22.73</b>
3/4"	10	140-437	30.30	<b>22.73</b>
<b>2" O.D.</b>				
3/4"	10	140-445	51.80	<b>38.85</b>
1"	8	140-455	51.80	<b>38.85</b>



Full size range on promotion. See page C22,23 of our Catalogue



## Screw Extractor Set

- For removing broken screws, studs, pipe fittings, etc., without damaging the threads.
- 9 pc set includes #1 thru 9
- Spiral flute

Code No.: 110-970  
Reg. Price: \$171.70

**\$128.78**



## 2 Flute Regular Length HSCO End Mills

These end mills come standard with right-hand cutting and right-hand helical flutes. All shanks are flatted for holder set screw. Designed for slotting, drilling, pocketing, and general-purpose operation.

- 2 helical flutes • Single end with weldon shank
- Centre cutting • Keyway tolerance



Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Code No.	Reg. Price \$	SALE Price \$
1/8"	3/8"	3/8"	2-5/16"	103-050	15.90	<b>9.54</b>
3/16"	3/8"	7/16"	2-5/16"	103-054	15.90	<b>9.54</b>
1/4"	3/8"	1/2"	2-5/16"	103-058	15.90	<b>9.54</b>
3/8"	3/8"	9/16"	2-5/16"	103-066	15.90	<b>9.54</b>
1/2"	1/2"	1"	3"	103-074	23.90	<b>14.34</b>
6pc Set Contains: 1/4" - 3/4"				103-574	171.70	<b>120.19</b>

Full size range on promotion. See page A23 of our Catalogue

## Multi-Flute Regular Length HSCO End Mills

Centre cutting allows these end mills to drill into the part for the beginning of a slot. These centre cutting end mills are recommended for pocketing, tracer milling, cam milling, die sinking, and slotting.



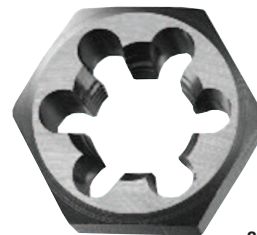
Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Flutes	Code No.	Reg. Price \$	SALE Price \$
3/16"	3/8"	1/2"	2-3/8"	4	103-224	16.60	<b>9.96</b>
1/4"	3/8"	5/8"	2-7/16"	4	103-226	16.60	<b>9.96</b>
5/16"	3/8"	3/4"	2-1/2"	4	103-228	16.60	<b>9.96</b>
3/8"	3/8"	3/4"	2-1/2"	4	103-230	16.60	<b>9.96</b>
1/2"	1/2"	1-1/4"	3-1/4"	4	103-235	26.40	<b>15.84</b>

Full size range on promotion. See page A27 of our Catalogue



## Hex Dies

- ISO Threads/Right Hand
- Carbon Steel
- Used for rethreading and cleaning threads



Full size range on promotion. See page C24 of our Catalogue

### Coarse Threads

Size	TPI	Code No.	Reg. Price \$	SALE Price \$
1/4"	20	140-813	21.60	<b>16.20</b>
5/16"	18	140-815	23.90	<b>17.93</b>
3/8"	16	140-817	25.20	<b>18.90</b>
1/2"	13	140-821	30.30	<b>22.73</b>
5/8"	11	140-825	37.20	<b>27.90</b>
3/4"	10	140-829	49.30	<b>36.98</b>
7/8"	9	140-831	55.30	<b>41.48</b>
1-1/4"	7	140-838	88.90	<b>66.68</b>



## End Mill Sheath Rack

- ABS plastic
- 62 sheaths
- Range: Ø6-Ø42mm
- Dimensions: 205x205x80mm

Code No.: 326-545  
Reg. Price: \$40.90

**\$28.63**



## 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.	Reg. Price \$	SALE Price \$
1/16"	1/8"	3/16"	1-1/2"	103-870	11.10	<b>7.77</b>
1/8"	1/8"	1/2"	1-1/2"	103-860	11.10	<b>7.77</b>
3/16"	3/16"	5/8"	2"	103-862	15.30	<b>10.71</b>
1/4"	1/4"	3/4"	2-1/2"	103-864	19.30	<b>13.51</b>
5/16"	5/16"	13/16"	2-1/2"	103-866	25.10	<b>17.57</b>
3/8"	3/8"	1"	2-1/2"	103-867	31.30	<b>21.91</b>
1/2"	1/2"	1"	3"	103-869	57.90	<b>40.53</b>

## 4 Flute Regular Length Carbide End Mills - Typhoon

These end mills are manufactured with Premium Sub-Micron carbide and are designed to cut hardened materials. The unique geometry of the Typhoon end mill combined with its modified AITN coating make it an excellent choice for demanding applications.



Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Code No.	Reg. Price \$	SALE Price \$
1/16"	1/8"	3/16"	1-1/2"	104-702	29.90	<b>22.43</b>
1/8"	1/8"	1/2"	1-1/2"	104-700	29.90	<b>22.43</b>
3/16"	3/16"	5/8"	2"	104-704	36.90	<b>27.68</b>
1/4"	1/4"	3/4"	2-1/2"	104-708	40.50	<b>30.38</b>
5/16"	5/16"	13/16"	2-1/2"	104-712	58.40	<b>43.80</b>
3/8"	3/8"	1"	2-1/2"	104-716	68.90	<b>51.68</b>
1/2"	1/2"	1"	3"	104-720	109.60	<b>82.20</b>

Full size range on promotion. See page A9, A15 of our Catalogue

## SOWA 90° Cobalt 3 Flute Countersinks

- M35 Cobalt - Bright or TiN coated
- Wide flutes provide good chip evacuation
- Positive cut
- Constant profile aids regrinding of the tool
- Self-centering of the cutting mill (three bearing points) virtually eliminates vibration



Diameter	O.A.L.	Shank Diameter	Bright Code No.	Reg. Price \$	SALE Price \$	TiN Code No.	Reg. Price \$	SALE Price \$
1/4"	45mm	1/4"	121-899	29.30	<b>21.98</b>	121-857	38.40	<b>28.80</b>
5/16"	45mm	1/4"	121-900	33.80	<b>25.35</b>	121-858	44.60	<b>33.45</b>
3/8"	50mm	1/4"	121-901	38.40	<b>28.80</b>	121-859	49.10	<b>36.83</b>
1/2"	50mm	1/4"	121-902	47.60	<b>35.70</b>	121-862	59.80	<b>44.85</b>
5/8"	60mm	3/8"	121-903	55.20	<b>41.40</b>	121-863	70.50	<b>52.88</b>
3/4"	60mm	3/8"	121-904	64.40	<b>48.30</b>	121-864	81.20	<b>60.90</b>
1"	70mm	3/8"	121-905	78.20	<b>58.65</b>	121-867	96.50	<b>72.38</b>
<b>7pc Set</b>			121-866	345.90	<b>259.43</b>	121-856	439.30	<b>329.48</b>

## SOWA 82° Cobalt 3 Flute Countersinks

- M35 Cobalt - Bright or TiN coated
- Wide flutes provide good chip evacuation
- Positive cut
- Constant profile aids regrinding of the tool
- Self-centering of the cutting mill (three bearing points) virtually eliminates vibration



Diameter	O.A.L.	Shank Diameter	Bright Code No.	Reg. Price \$	SALE Price \$
5/16"	45mm	1/4"	121-876	33.80	<b>25.35</b>
3/8"	50mm	1/4"	121-877	38.40	<b>28.80</b>
1/2"	50mm	1/4"	121-878	47.60	<b>35.70</b>
5/8"	60mm	3/8"	121-879	55.20	<b>41.40</b>
3/4"	60mm	3/8"	121-880	64.40	<b>48.30</b>
1"	70mm	3/8"	121-881	78.20	<b>58.65</b>
<b>7pc Set</b>			121-861	345.90	<b>259.43</b>

## SOWA 90° HSS Stub NC Spot Drills

- M2 High Speed Steel



Dia. (in.)	Overall Length (in.)	Flute Length (in.)	Code No.	Reg. Price \$	SALE Price \$
1/8"	1-1/4"	0.380"	121-939	12.10	<b>9.08</b>
3/16"	1-3/8"	0.500"	121-940	13.30	<b>9.98</b>
1/4"	1-1/2"	0.640"	121-941	13.80	<b>10.35</b>
5/16"	1-1/2"	0.640"	121-942	17.00	<b>12.75</b>
3/8"	2"	1.000"	121-943	18.50	<b>13.88</b>
7/16"	2"	1.000"	121-944	24.60	<b>18.45</b>
1/2"	2"	1.000"	121-945	29.30	<b>21.98</b>

## NOGA Deburring Blades & Handles

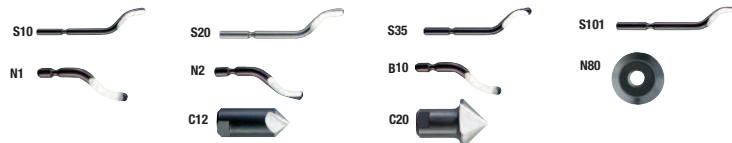
- Multi-functional tool deburrs round parts, small holes and straight edges
- Blades are easily changed and stored in handle
- NB3000 contains handle and 3 "S" blades (165-024, 165-026, 165-030)
- Blue plastic handle and S10 blade for the NB1100



Model	Code No.	Reg. Price \$	SALE Price \$
NB3000	165-370	19.70	<b>16.75</b>
NB1100	165-390	12.60	<b>10.71</b>

### Blades

- Ready-to-use blades included
- All blades shown are HSS (Carbide available)



Model	Description	Code No.	Reg. Price \$	SALE Price \$
S10	For steel and aluminum	165-024	2.40	<b>2.04</b>
S20	For brass and cast iron; for both right and left hand	165-026	2.60	<b>2.21</b>
S35	Works best on straight edges for most materials	165-030	2.70	<b>2.30</b>
S101	Works best on fine edges for all materials	165-032	2.80	<b>2.38</b>
N1	For steel, plastic and aluminum	165-036	1.80	<b>1.53</b>
N2	For brass and cast iron	165-038	1.80	<b>1.53</b>
B10	For steel, plastic and aluminum	165-320	1.80	<b>1.53</b>
N80	For use in double burr. (M42 available for stainless)	165-042	7.70	<b>6.55</b>
C12	12 mm dia., countersink M7 internal thread	165-046	27.00	<b>22.95</b>
C20	20mm Dia., countersink M7 internal thread	165-048	36.40	<b>30.94</b>

Full range of blades on promotion. See page D45-46 of our Catalogue

Diameter	O.A.L.	Shank Diameter	TiN Code No.	Reg. Price \$	SALE Price \$
16.5mm	61mm	10mm	121-883	79.80	<b>59.85</b>
20.5mm	64mm	10mm	121-884	91.90	<b>68.93</b>
25.0mm	68mm	10mm	121-885	109.70	<b>82.28</b>
31.0mm	73mm	12mm	121-886	156.30	<b>117.23</b>
<b>5pc Set</b>			121-870	474.50	<b>355.88</b>

## SOWA 60° HSS Combined Drill & Countersinks - Long Series

- 60° countersink
- 118° drill point
- High Speed Steel



Size	Body Dia.	Drill Dia.	Drill Length	O.A.L.	Code No.	Reg. Price \$	SALE Price \$
1	1/8"	3/64"	1.4-1.7mm	4"	121-931	23.10	<b>16.17</b>
2	3/16"	5/64"	2.4-2.7mm	4"	121-932	23.10	<b>16.17</b>
3	1/4"	7/64"	3.3-3.9mm	4"	121-933	25.50	<b>17.85</b>
4	5/16"	1/8"	3.8-4.4mm	4"	121-934	27.40	<b>19.18</b>

## SOWA 60° HSS Combined Drill & Countersinks

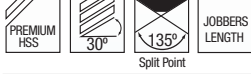
- 60° countersink
- 118° drill point
- High Speed Steel
- Bright and TiN coated



Size	Body Dia.	Drill Dia.	O.A.L.	Bright Code No.	Reg. Price \$	SALE Price \$	TiN Code No.	Reg. Price \$	SALE Price \$
#000	1/8"	0.020"	31mm	121-907	10.80	<b>8.10</b>	-	-	-
#00	1/8"	0.025"	31mm	121-908	10.20	<b>7.65</b>	-	-	-
#0	1/8"	1/32"	31mm	121-910	9.40	<b>7.05</b>	-	-	-
1	1/8"	3/64"	31mm	121-911	9.00	<b>6.75</b>	121-921	15.20	<b>11.40</b>
2	3/16"	5/64"	47mm	121-912	9.40	<b>7.05</b>	121-922	17.00	<b>12.75</b>
3	1/4"	7/64"	50mm	121-913	9.90	<b>7.43</b>	121-923	19.20	<b>14.40</b>
4	5/16"	1/8"	54mm	121-914	11.50	<b>8.63</b>	121-924	22.20	<b>16.65</b>
4-1/2	3/8"	9/64"	63mm	121-919	14.90	<b>11.18</b>	121-929	28.60	<b>21.45</b>
5	7/16"	3/16"	70mm	121-915	17.00	<b>12.75</b>	121-925	32.20	<b>24.15</b>
6	1/2"	7/32"	76mm	121-916	22.50	<b>16.88</b>	121-926	39.20	<b>29.40</b>
7	5/8"	1/4"	82mm	121-917	40.30	<b>30.23</b>	121-927	58.70	<b>44.03</b>
8	3/4"	5/16"	89mm	121-918	66.00	<b>49.50</b>	121-928	90.40	<b>67.80</b>
<b>Set</b>	<b>Contents</b>								
5pcs	#1 - 5			121-920	59.80	<b>44.85</b>			

## SOWA Premium HSS Jobber Length Drills

These Premium HSS drills can be used in a variety of applications. Their surface treatment increases abrasion resistance, which reduces the amount of chip welding and improves chip flow.



Size	Decimal Equivalent	Flute Length	Overall Length	Code No.	Reg. Price \$	SALE Price \$
1/8"	0.1250"	1-5/8"	2-3/4"	128-005	2.40	<b>1.80</b>
3/16"	0.1875"	2-5/16"	3-1/2"	128-009	2.80	<b>2.10</b>
13/64"	0.2031"	2-7/16"	3-5/8"	128-010	3.10	<b>2.33</b>
1/4"	0.2500"	2-3/4"	4"	128-013	4.10	<b>3.08</b>
17/64"	0.2656"	2-7/8"	4-1/8"	128-014	5.20	<b>3.90</b>
5/16"	0.3125"	3-3/16"	4-1/2"	128-017	6.40	<b>4.80</b>
3/8"	0.3750"	3-5/8"	5"	128-021	8.90	<b>6.68</b>
1/2"	0.5000"	4-1/2"	6"	128-029	15.40	<b>11.55</b>

**29pc Set** 1/16 - 1/2" x 64ths Fractional Set 128-119 209.90 **157.43**

Full size range on promotion. See page B11 of our Catalogue

## STM Premium HSS Prentice Drills

- General purpose
- 1/2" shank
- 3" cutting length
- 6" overall length



Full size range on promotion. See page B25 of our Catalogue

Size (in.)	Decimal Equiv.	General Purpose Code No.	Reg. Price \$	SALE Price \$
17/32"	0.5312"	118-401	24.70	<b>18.53</b>
9/16"	0.5625"	118-403	26.30	<b>19.73</b>
21/32"	0.6562"	118-409	31.40	<b>23.55</b>
11/16"	0.6875"	118-411	32.70	<b>24.53</b>
3/4"	0.7500"	118-415	36.10	<b>27.08</b>
13/16"	0.8125"	118-419	40.50	<b>30.38</b>
7/8"	0.8750"	118-423	43.40	<b>32.55</b>
1"	1.0000"	118-431	61.70	<b>46.28</b>

# STM Fast Drill Re-Sharpener



### Model DM213

**Drill Diameter:** Ø2mm - Ø13mm  
**Point Angle:** 85° ~ 140°  
**R.P.M.:** 6000 rpm  
**Weight:** 10 kg



#### Standard Accessories

- ER20 Collets, ranged from 2.5mm-13mm (12pcs).
- CBN Diamond wheel #200x1pc (for High Speed drill).
- 4mm and 5mm hexagon wrench x 1 pc each.

**Code No.:** 326-130  
**Reg. Price:** \$1,491.40

**\$1,118.55**



### Model DM1226

**Drill Diameter:** Ø8mm - Ø30mm  
**Point Angle:** 85° ~ 140°  
**R.P.M.:** 4000 rpm  
**Weight:** 25 kg



#### Standard Accessories

- ER 40 Collets, ranged from 12mm-26mm (15pcs).  
Optional Collets 8~11mm, 27~30mm
- CBN Diamond wheel #200x1pc (for High Speed drill).
- 4mm and 6mm hexagon wrench x 1 pc each.

**Code No.:** 326-134  
**Reg. Price:** \$3,414.30

**\$2,560.73**

## STM Chatterfree HSS Countersinks

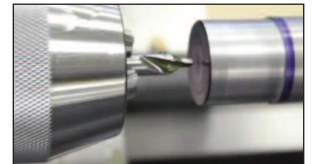
- High Speed Steel
- Clean, free cutting action for chamfering or deburring
- Produce a high quality surface finish on almost all materials
- Excellent chip clearance



Size	Range	Shank Dia.	82° HSS			90° HSS		
			Code No.	Reg. Price \$	SALE Price \$	Code No.	Reg. Price \$	SALE Price \$
1	5/32-13/32"	1/4"	121-005	25.80	<b>23.22</b>	121-004	25.80	<b>23.22</b>
2	3/16-17/32"	1/4"	121-010	29.60	<b>26.64</b>	121-009	29.60	<b>26.64</b>
3	5/16-25/32"	1/2"	121-015	51.70	<b>46.53</b>	121-014	51.70	<b>46.53</b>

## STM Combined Drills & Countersinks - Plain Type

- 60° countersink
- High Speed Steel



Size	Body Dia.	Drill Dia. Length	O.A.L.	HSS Code No.	Reg. Price \$	SALE Price \$
1	1/8"	3/64"	1-1/4"	116-238	7.00	<b>5.25</b>
2	3/16"	5/64"	1-7/8"	116-239	7.00	<b>5.25</b>
3	1/4"	7/64"	2"	116-240	7.20	<b>5.40</b>
4	5/16"	1/8"	2-1/8"	116-241	7.30	<b>5.48</b>
5	7/16"	3/16"	2-3/4"	116-242	10.90	<b>8.18</b>
6	1/2"	7/32"	3"	116-243	16.30	<b>12.23</b>

## STM Plain Metal HSS Slitting Saws

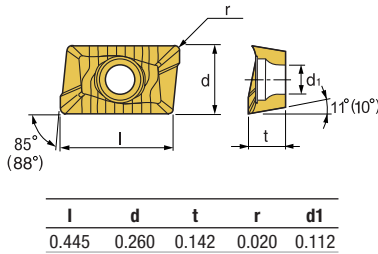
- For general purpose slotting and cut-off operations.
- The sides are ground with a slight dish (concavity) towards the arbor hole to avoid dragging in the cut. Have cutting edges on periphery or OD only.



Dia.	No. of Teeth	Face Width	Hole Size	Code No.	Reg. Price \$	SALE Price \$
3"	30	1/32"	1"	136-010	41.50	<b>31.13</b>
3"	30	1/16"	1"	136-012	44.10	<b>33.08</b>
3"	30	1/8"	1"	136-016	45.30	<b>33.98</b>
3-1/2"	30	3/64"	1"	136-021	60.90	<b>45.68</b>
4"	36	1/32"	1"	136-029	58.90	<b>44.18</b>
4"	36	1/16"	1"	136-031	60.90	<b>45.68</b>

## SOWA APXT 11T3 PDSR-M Carbide Inserts

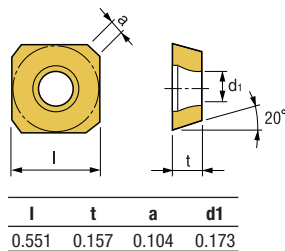
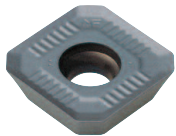
- Features  
Excellent free cutting geometries for a variety of applications



Grade	Code No.	Reg. Price \$	SALE Price \$
PM25C	146-356	20.10	<b>14.07</b>
PM30P	147-335	20.10	<b>14.07</b>
PM40P	146-354	20.10	<b>14.07</b>
MM30P	147-340	20.10	<b>14.07</b>

## SOWA SEXT 14M4AGSN-M Carbide Inserts

- Features  
Excellent general purpose geometry



Grade	Code No.	Reg. Price \$	SALE Price \$
PM25C	147-730	21.20	<b>14.84</b>
MM30P	148-507	21.20	<b>14.84</b>

## STM Turning Style "A" Brazed Tools

Grade C5 – Steel

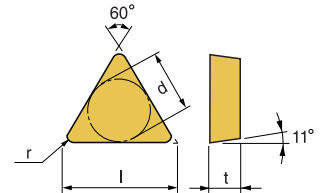
Turning, Facing, or Boring to a square shoulder, A lead angle can be ground on the side cutting edge for use on shallow cuts or chamfering



Tool Right Hand	Tool Left Hand	Shank Width	Shank Height	Shank Length	Nose Radius	R.H. C5 Code No.	Reg. Price \$	SALE Price \$	L.H. C5 Code No.	Reg. Price \$	SALE Price \$
AR4	AL4	1/4	1/4	2	1/64	141-700	3.40	<b>2.55</b>	141-800	3.40	<b>2.55</b>
AR5	AL5	5/16	5/16	2-1/4	1/64	141-702	3.50	<b>2.63</b>	141-802	3.50	<b>2.63</b>
AR6	AL6	3/8	3/8	2-1/2	1/64	141-704	3.50	<b>2.63</b>	141-804	3.50	<b>2.63</b>
AR7	AL7	7/16	7/16	3	1/32	141-706	7.70	<b>5.78</b>	141-806	7.70	<b>5.78</b>
AR8	AL8	1/2	1/2	3-1/2	1/32	141-708	5.20	<b>3.90</b>	141-808	5.20	<b>3.90</b>
AR10	AL10	5/8	5/8	4	1/32	141-710	8.30	<b>6.23</b>	141-810	8.30	<b>6.23</b>
AR12	AL12	3/4	3/4	4-1/2	1/32	141-712	43.30	<b>32.48</b>	141-812	43.30	<b>32.48</b>

## SOWA TPU-PTM30U Carbide Inserts

- Applicable Material: Steel, Stainless Steel
- Application: Facing, Shouldering, Slotting

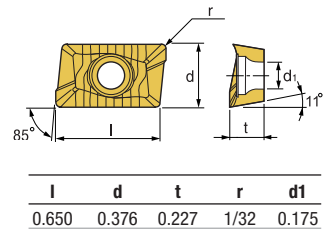


Designation	l	d	t	r	Code No.	Reg. Price \$	SALE Price \$
TPU 212	0.433"	1/4"	3/32"	1/32"	146-631	7.30	<b>5.11</b>
TPU 221	0.433"	1/4"	1/8"	1/64"	146-740	8.40	<b>5.88</b>
TPU 431	0.866"	1/2"	3/16"	1/64"	146-800	13.00	<b>9.10</b>
TPU 432	0.866"	1/2"	3/16"	1/32"	146-820	13.00	<b>9.10</b>
TPU 433	0.866"	1/2"	3/16"	3/64"	146-840	13.00	<b>9.10</b>

Full size range on promotion. See page E113 of our Catalogue

## SOWA APKT 1604 PDSR-M Carbide Inserts

- Features  
Excellent free cutting geometries for a variety of applications



Grade	Code No.	Reg. Price \$	SALE Price \$
PM25C	146-530	27.40	<b>19.18</b>
PM40P	146-652	27.40	<b>19.18</b>
KM10P	145-637	27.40	<b>19.18</b>
MM30P	147-339	27.40	<b>19.18</b>



## HSS Straight Shank Counterbores



Screw Size	Pilot Dia.	Cutter Dia.	Shank Dia.	Overall Length	Code No.	Reg. Price \$	SALE Price \$
#10	13/64"	21/64"	5/16"	3-1/2"	150-120	27.50	<b>17.88</b>
1/4"	9/32"	13/32"	3/8"	5"	150-125	34.50	<b>22.43</b>
5/16"	11/32"	1/2"	7/16"	5"	150-130	37.40	<b>24.31</b>
3/8"	13/32"	19/32"	1/2"	6"	150-135	56.90	<b>36.99</b>

### Metric

Screw Size	Pilot Dia.	Cutter Dia.	Cutter Length	Shank Dia.	Code No.	Reg. Price \$	SALE Price \$
M4	4.5	8	25.400	5/16"	150-171	29.20	<b>20.44</b>
M5	5.5	10	31.750	3/8"	150-172	37.10	<b>25.97</b>
M8	9	15	38.894	1/2"	150-174	41.20	<b>28.84</b>
M12	14	20	50.800	1/2"	150-176	63.30	<b>44.31</b>

Full size range on promotion. See page D10 of our Catalogue



## Die Grinders

### Specifications

- Air Inlet (NPT): 1/4"
- (174-008) Air Consumption (Loading): 14 cfm
- (174-014) Air Consumption (Loading): 13 cfm
- Exhaust System: Rear
- Aluminum Alloy Housing



### 1/4" Medium Die Grinder - TP-1001

Horse Power	RPM	Collet Size	Air Pressure (psi)	O.A.L.	Net Weight (lb)	Code No.	Reg. Price \$	SALE Price \$
0.3	22,000	1/4"(6mm)	90	6-7/8"	1.36	174-008	67.60	<b>47.32</b>

### 1/4" Right Angle Die Grinder - TP-1014

Horse Power	RPM	Collet Size	Air Pressure (psi)	O.A.L.	Net Weight (lb)	Code No.	Reg. Price \$	SALE Price \$
0.3	20,000	1/4"(6mm)	90	6-5/16"	1.10	174-014	134.70	<b>94.29</b>



## 1/8" Air Micro Die Grinder Kit

### Contains:

- 1 pc. TP-501-1 Grinder
- 1 pc. 3 mm collet
- 10 pcs. 1/8" (3 mm) shank grinding stones
- 2 pcs. spanners
- 1 pc. blow case



Code No.: 174-002  
Reg. Price: \$234.90

**\$164.43**



## Metric Straight Flute Reamers HSS

- High Speed Steel



Dia. (mm)	Decimal Equiv. (in.)	Flutes	Flute Length (in.)	Overall Length (in.)	Shank Dia. (in.)	Code No.	Reg. Price \$	SALE Price \$
2.50	0.0984	4	7/8	3-1/2	0.0928	143-050	10.10	<b>7.07</b>
3.00	0.1181	4	7/8	3-1/2	0.1120	143-051	10.10	<b>7.07</b>
4.00	0.1575	6	1-1/8	4-1/2	0.1530	143-054	14.10	<b>9.87</b>
6.00	0.2362	6	1-1/2	6	0.2329	143-057	19.80	<b>13.86</b>
7.00	0.2756	6	1-1/2	6	0.2485	143-058	20.90	<b>14.63</b>
8.00	0.3150	6	1-1/2	6	0.2792	143-059	20.90	<b>14.63</b>
9.00	0.3543	6	1-3/4	7	0.3105	143-060	23.70	<b>16.59</b>
9.50	0.3740	6	1-3/4	7	0.3105	129-285	45.10	<b>33.83</b>
12.00	0.4724	6	2	8	0.4355	143-063	29.20	<b>20.44</b>
13.00	0.5118	6	2	8	0.4355	143-064	32.10	<b>22.47</b>
14.00	0.5512	6	2	8	0.4355	143-065	36.90	<b>25.83</b>
15.00	0.5906	6	2	8	0.4355	143-066	39.10	<b>27.37</b>

Full size range on promotion. See page B72 of our Catalogue



## Die Grinders

### Specifications

- Air Inlet (NPT): 1/4"
- Air Consumption (Loading): 13 cfm
- Exhaust System: Rear
- Aluminum Alloy Housing



### 5" Extended H.D. Die Grinder - TP-1104

Horse Power	RPM	Collet Size	Air Pressure (psi)	O.A.L.	Net Weight (lb)	Code No.	Reg. Price \$	SALE Price \$
0.3	25,000	1/4"(6mm)	90	11-1/4"	1.45	174-032	252.70	<b>176.89</b>

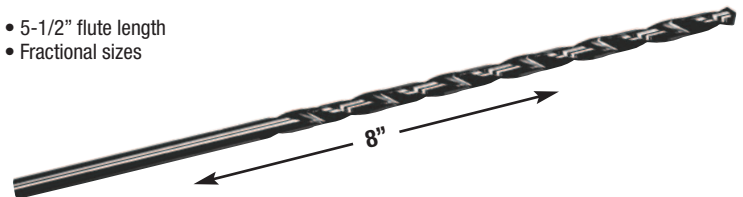
### 1/4" Die Grinder - TP-1101H

Horse Power	RPM	Collet Size	Air Pressure (psi)	O.A.L.	Net Weight (lb)	Code No.	Reg. Price \$	SALE Price \$
0.3	28,000	1/4"(6mm)	90	6-5/16"	0.81	174-038	135.50	<b>94.85</b>



## 8" Extra Length Drills HSS

- 5-1/2" flute length
- Fractional sizes



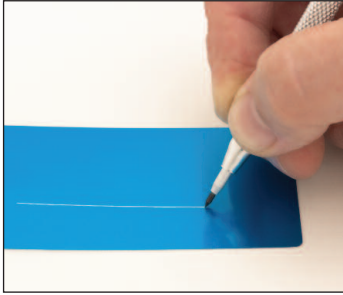
Size	Decimal Equiv.	Code No.	Reg. Price \$	SALE Price \$
1/8"	0.1250	116-899	18.40	<b>13.80</b>
3/16"	0.1875	116-903	19.30	<b>14.48</b>
1/4"	0.2500	116-907	20.30	<b>15.23</b>
5/16"	0.3125	116-911	23.80	<b>17.85</b>
3/8"	0.3750	116-915	27.90	<b>20.93</b>
7/16"	0.4219	116-919	32.20	<b>24.15</b>
1/2"	0.5000	116-924	38.00	<b>28.50</b>

Full size range on promotion. See page B31 of our Catalogue



## Pen Scriber with Magnet

- Pen Scriber c/w carbide point



Code No.: 201-060  
Reg. Price: \$7.70

**\$5.39**

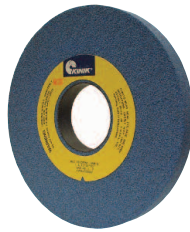


## Ceramic Surface Grinding Wheels

### Peripheral Surface Grinding

Surface grinding with straight or recessed wheels on machines with a rotating or reciprocating table results in a larger contact area than in cylindrical grinding. Therefore it is necessary to use softer grade wheels, particularly when large diameter and/or wide wheels are used.

When grinding a large number of components, the grinding is not continuous. In this case the components tend to dress the wheel, so a harder grade wheel should be used.



Dimensions	Structure	Reg. Price \$	SALE Price \$	Structure	Reg. Price \$	SALE Price \$
	CSKG 46K			CSKG 60K		
6x1/4x1-1/4"	635-040	27.20	<b>19.04</b>	635-041	25.90	<b>18.13</b>
6x1/2x1-1/4"	635-044	30.70	<b>21.49</b>	635-046	30.70	<b>21.49</b>
7x1/4x1-1/4"	635-047	34.10	<b>23.87</b>	635-048	36.90	<b>25.83</b>
7x1/2x1-1/4"	635-055	40.10	<b>28.07</b>	635-050	40.10	<b>28.07</b>
8x1/4x1-1/4"	635-057	43.60	<b>30.52</b>	635-061	43.60	<b>30.52</b>
8x1/2x1-1/4"	635-064	52.90	<b>37.03</b>	635-065	52.90	<b>37.03</b>
8x3/4x1-1/4"	635-067	66.00	<b>46.20</b>	635-068	66.00	<b>46.20</b>
8x3/4x2"	635-093	66.00	<b>46.20</b>	635-094	66.00	<b>46.20</b>
8x1x1-1/4"	635-069	75.70	<b>52.99</b>	635-071	75.70	<b>52.99</b>
8x1x2"	635-097	75.70	<b>52.99</b>	635-098	75.70	<b>52.99</b>

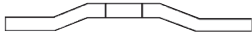
Full size range on promotion. See page L3 of our Catalogue



## Reinforced Depressed Centre Discs For Steel

### A. (Type 27)

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



Dimensions	Specification	RPM	Code No.	Reg. Price \$	SALE Price \$
4 x1/4 x5/8"	A24S2G	15300	635-606	2.70	<b>1.89</b>
4-1/2 x1/8 x7/8"	A24S2G	13300	635-610	3.50	<b>2.45</b>
4-1/2 x1/4 x7/8"	A24R2G	13300	635-616	3.80	<b>2.66</b>
4-1/2 x1/4 x7/8"	A24S2G	13300	635-612	3.80	<b>2.66</b>
5 x1/4 x7/8"	A24R2G	12200	635-620	4.70	<b>3.29</b>
7 x1/4 x7/8"	A24R2.5G	8500	635-628	6.30	<b>4.41</b>
7 x1/4 x7/8"	A24S2.5G	8500	635-629	6.30	<b>4.41</b>

Full size range on promotion. See page L12 of our Catalogue



## Hand Files

### 10 Piece Needle File Set



Code No.: 200-761  
Reg. Price: \$10.00

**\$7.00**

### 10 Piece Diamond File Set



Code No.: 200-763  
Reg. Price: \$15.90

**\$11.13**



## General Purpose Grinding Wheels

Used on bench, pedestal, wagon, and swing frame grinders

- Dia: 125 ~ 760 mm
- Dia: 5" ~ 30"



GC:  
Green Silicone Carbide

Dimensions	Structure	Reg. Price \$	SALE Price \$	Structure	Reg. Price \$	SALE Price \$
	GC60KV			GC80JV		
6x3/4x1"	635-450	34.70	<b>24.29</b>	635-452	34.70	<b>24.29</b>
6x1x1"	635-458	38.60	<b>27.02</b>	635-460	38.60	<b>27.02</b>
7x1/2x1-1/4"	635-466	40.50	<b>28.35</b>	-	-	-
8x3/4x1"	-	-	-	635-490	56.20	<b>39.34</b>
8x1x1"	635-494	68.20	<b>47.74</b>	635-496	68.20	<b>47.74</b>
10x1x1"	635-502	113.00	<b>79.10</b>	-	-	-

Full size range on promotion. See page L5 of our Catalogue



## Aluminum Oxide Surface Grinding Wheels

### Peripheral Surface Grinding

Surface grinding with straight or recessed wheels on machines with a rotating or reciprocating table results in a larger contact area than in cylindrical grinding. Therefore it is necessary to use softer grade wheels, particularly when large diameter and/or wide wheels are used.



WA  
White Aluminum Oxide

Dimensions	Structure	Reg. Price \$	SALE Price \$	Structure	Reg. Price \$	SALE Price \$
	WA46J			WA60J		
7x1/2x1-1/4"	635-306	34.70	<b>24.29</b>	635-308	38.60	<b>27.02</b>
8x1/2x1-1/4"	635-324	43.60	<b>30.52</b>	635-326	43.60	<b>30.52</b>
8x3/4x1-1/4"	635-334	56.20	<b>39.34</b>	-	-	-
12x1x5"	635-390	153.50	<b>107.45</b>	635-392	153.50	<b>107.45</b>
12x1-1/2x5"	-	-	-	635-396	180.40	<b>126.28</b>
14x2x5"	635-411	306.70	<b>214.69</b>	-	-	-
<b>Recessed 2A Both Sides</b>						
14x2x5"	635-412	311.60	<b>311.60</b>	-	-	-

Full size range on promotion. See page L4 of our Catalogue



# MACHINE TOOL ACCESSORIES **SOWA**



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

### Features:

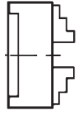
- 3 jaw, self-centering scroll chuck with manual gripping and a high quality cast iron body
- Smart design, allowing inner parts to be replaced quickly
- Mounted on the machine-tool spindle from the back of the chuck, using the adapter plate

### Application:

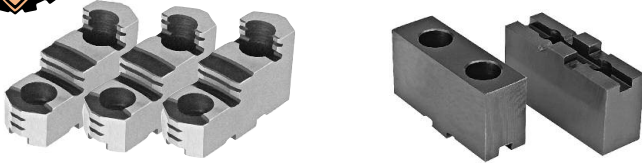
- This chuck is designed for all types of workshop machining operations on conventional lathes and milling fixtures



Mounting	Size of Chuck	6"	8"	10"	12"	16"
3205 Plain Back	Hole Size	1.6535	2.1654	2.9921	4.0551	5.3543
	Weight lbs	22	39	55	110	187
	Code No.	440-710	440-715	440-720	440-725	435-135
	Reg. Price \$	1,019.40	1,223.60	1,731.40	2,550.00	4,201.50
	SALE Price \$	<b>764.55</b>	<b>917.70</b>	<b>1,298.55</b>	<b>1,912.50</b>	<b>3,151.13</b>



## Hard & Soft Top Jaws



3 pc. set (Hard)

Sold Individually (Soft)

Chuck Dia.	3-Jaw Code No.	Reg. Price \$	SALE Price \$
5"	460-705	371.20	<b>278.40</b>
6"	460-710	454.70	<b>341.03</b>
8"	460-715	458.20	<b>343.65</b>
10"	460-720	536.40	<b>402.30</b>
12"	460-725	660.60	<b>495.45</b>
16"	460-730	900.40	<b>675.30</b>

Chuck Dia.	Code No.	Reg. Price \$	SALE Price \$
6"	465-110	69.40	<b>52.05</b>
8"	465-115	74.70	<b>56.03</b>
10"	465-120	92.10	<b>69.08</b>
12"	465-125	115.60	<b>86.70</b>
16"	465-130	156.40	<b>117.30</b>
20"	465-135	262.90	<b>197.18</b>
25"	465-140	376.50	<b>282.38</b>



## Type B&C CNC Toolholder Bushings

- Split style
- Shorter length
- Clamp on flat
- Bushing collapses to hold tool.
- Used for Drills, Boring Bars, and other tools



Bushing Type	Dia.	Bore	Length Under Head	Code No.	Reg. Price \$	SALE Price \$
B	1-1/2"	3/4"	2-1/2"	470-512	82.40	<b>61.80</b>
B	1-1/2"	1"	2-1/2"	470-513	82.40	<b>61.80</b>
B	1-1/2"	1-1/4"	2-1/2"	470-514	82.40	<b>61.80</b>
B	2"	1-1/4"	3-1/2"	470-518	133.80	<b>100.35</b>
B	2"	1-1/2"	3-1/2"	470-519	133.80	<b>100.35</b>

- Designed for use on all CNC Turning Machines
- Elongated slot
- For use with Drills, Boring Bars, Reamers, etc.
- Precision ground throughout



Bushing Type	Dia.	Bore	Length of Slot	Length Under Head	Code No.	Reg. Price \$	SALE Price \$
C	1-1/2"	3/4"	3"	3-3/8"	470-502	89.60	<b>67.20</b>
C	1-1/2"	1"	3"	3-3/8"	470-503	89.60	<b>67.20</b>
C	1-1/2"	1-1/4"	3"	3-3/8"	470-504	89.60	<b>67.20</b>
C	2"	1-1/4"	3-5/8"	4"	470-507	136.30	<b>102.23</b>
C	2"	1-1/2"	3-5/8"	4"	470-508	136.30	<b>102.23</b>



## Soft Top Jaws For Power Chucks

- Metric serration: 1.5x60°



3 pc. set (Soft)

Chuck Dia.	Code No.	Reg. Price \$	SALE Price \$
150(6")	656-050	69.70	<b>48.79</b>
210(8")	656-055	94.80	<b>66.36</b>
254(10")	656-060	109.70	<b>76.79</b>
304(12")	656-065	172.20	<b>120.54</b>
381(15")	656-070	447.80	<b>313.46</b>



## High Performance Live Centres

- Each GS live centre 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 centre has passed at least 4 different accuracy tests to ensure the highest quality



### CNC HIGH SPEED LIVE CENTRES



MT	Max RPM	Weight	Max Runout	Code No.	Reg. Price \$	SALE Price \$
2	5,000	1.54 lb	0.0001"	311-011	588.60	<b>412.02</b>
3	5,000	1.73 lb	0.0001"	311-012	588.60	<b>412.02</b>
4	3,800	4.06 lb	0.0001"	311-013	766.40	<b>536.48</b>
5	3,000	9.30 lb	0.0001"	311-014	1,056.20	<b>739.34</b>

### INTERCHANGEABLE POINTS LIVE CENTRES

Every centre comes with "H" insert



MT	Max RPM	Weight	Max Runout	Code No.	Reg. Price \$	SALE Price \$
3	5,000	1.76 lb	0.0002"	311-020	808.60	<b>566.02</b>
4	3,800	3.74 lb	0.0002"	311-021	1,215.40	<b>850.78</b>
5	3,000	8.58 lb	0.0002"	311-022	1,301.90	<b>911.33</b>



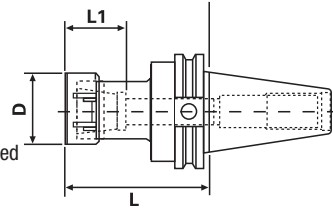
Call for other available points

For complete line call our customer service team

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

## GS 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"	531-402	295.60	<b>206.92</b>
CT40	ER16	0.019-0.406"	2.50"	0.87"	1.26"	531-406	236.80	<b>165.76</b>
CT40	ER16	0.019-0.406"	3.50"	0.87"	1.26"	531-408	236.80	<b>165.76</b>
CT40	ER16	0.019-0.406"	4.00"	0.87"	1.26"	531-405	240.00	<b>168.00</b>
CT40	ER16	0.019-0.406"	6.00"	0.87"	1.26"	531-410	267.30	<b>187.11</b>
CT40	ER20	0.039-0.511"	2.50"	1.06"	1.38"	531-412	235.50	<b>164.85</b>
CT40	ER20	0.039-0.511"	4.00"	1.06"	1.38"	531-414	241.20	<b>168.84</b>
CT40	ER32	0.078-0.787"	2.50"	1.34"	1.97"	531-421	253.20	<b>177.24</b>
CT40	ER32	0.078-0.787"	3.13"	1.34"	1.97"	531-424	265.80	<b>186.06</b>
CT40	ER32	0.078-0.787"	4.00"	1.34"	1.97"	531-423	254.30	<b>178.01</b>

Full size range on promotion. See page G22 of our Catalogue

## GS Replacement ER Chuck Nuts



Collet Nut for ER32 Shorty Collet Chuck

Description	Code No.	Steam Oxide		Balanced & Bright		
		Reg. Price \$	SALE Price \$	Code No.	Reg. Price \$	SALE Price \$
ER11 Nut (Hex)	337-680	46.40	<b>32.48</b>	534-790	77.20	<b>54.04</b>
ER16 Nut (Hex)	337-389	46.40	<b>32.48</b>	534-792	80.90	<b>56.63</b>
ER20 Nut (Hex)	337-391	46.40	<b>32.48</b>	534-794	84.60	<b>59.22</b>
ER25 Nut (Notched)	337-390	51.10	<b>35.77</b>	534-796	86.30	<b>60.41</b>
ER32 Nut (Notched)	337-392	49.90	<b>34.93</b>	534-798	89.50	<b>62.65</b>
ER40 Nut (Notched)	337-393	54.70	<b>38.29</b>	534-800	93.60	<b>65.52</b>

### ER32 Shorty Collet Nut

Fits ER32 Shorty Chucks (M40 x 1.5 Thread) 337-411 102.00 **71.40**

## GS ER Chuck Nut Wrenches



Wrench for ER32 Shorty Collet Chuck

Description	Code No.	Reg. Price \$	SALE Price \$
Fits ER11 Chucks (Hex)	337-388	47.50	<b>33.25</b>
Fits ER16 Chucks (Hex)	337-395	47.50	<b>33.25</b>
Fits ER20 Chucks (Hex)	337-397	47.50	<b>33.25</b>
Fits ER25 Chucks (Notched)	337-396	31.20	<b>21.84</b>
Fits ER32 Chucks (Notched)	337-398	40.00	<b>28.00</b>
Fits ER40 Chucks (Notched)	337-399	32.50	<b>22.75</b>

### ER32 Shorty Chuck Wrench

Fits ER32 Shorty Chucks 337-381 110.10 **77.07**

## GS 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



REGULAR

### ER 16 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/16"	337-531	40.40	<b>28.28</b>
1/8"	337-533	30.90	<b>21.63</b>
3/16"	337-535	30.90	<b>21.63</b>
1/4"	337-537	30.90	<b>21.63</b>
5/16"	337-540	30.90	<b>21.63</b>
3/8"	337-542	30.90	<b>21.63</b>

### ER 32 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/8"	337-703	35.70	<b>24.99</b>
1/4"	337-708	35.70	<b>24.99</b>
3/8"	337-713	35.70	<b>24.99</b>
1/2"	337-718	35.70	<b>24.99</b>
5/8"	337-723	35.70	<b>24.99</b>
3/4"	337-727	35.70	<b>24.99</b>

Full size range on promotion. See page G25-31 of our Catalogue

## GS 5 Micron AA 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.



### ER 16 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/16"	336-731	57.40	<b>40.18</b>
1/8"	336-736	47.50	<b>33.25</b>
3/16"	336-742	47.50	<b>33.25</b>
1/4"	336-747	47.50	<b>33.25</b>
5/16"	336-752	47.50	<b>33.25</b>
3/8"	336-758	47.50	<b>33.25</b>

### ER 32 Collets

Size	Code No.	Reg. Price \$	SALE Price \$
1/8"	336-854	52.40	<b>36.68</b>
9/32"	336-867	52.40	<b>36.68</b>
3/8"	336-875	52.40	<b>36.68</b>
1/2"	336-885	52.40	<b>36.68</b>
5/8"	336-895	52.40	<b>36.68</b>
3/4"	336-906	52.40	<b>36.68</b>

Full size range on promotion. Visit [SowaTool.com](http://SowaTool.com)

## GS 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.



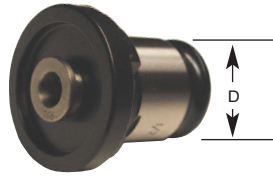
Series	No. Pcs.	Range	Code No.	Reg. Price \$	SALE Price \$
ER11	Inch 7pc Set	1/16-1/4"	336-992	341.20	<b>238.84</b>
ER11	Metric 13pc Set	1-7mm x 0.5mm	336-986	636.20	<b>445.34</b>
ER16	Inch 11pc Set	1/16-3/8"	336-993	535.20	<b>374.64</b>
ER16	Metric 10pc Set	1-10mm x 1.0mm	336-987	480.30	<b>336.21</b>
ER20	Metric 12pc Set	2-13mm x 1.0mm	336-988	625.00	<b>437.50</b>
ER20	Inch 15pc Set	1/16-1/2 x 1/32"	336-994	771.60	<b>540.12</b>
ER25	Inch 17pc Set	1/8-5/8"	336-995	949.30	<b>664.51</b>
ER25	Metric 15pc Set	2-16mm x 1.0mm	336-989	792.10	<b>554.47</b>
ER32	Inch 21pc Set	1/8-3/4"	336-996	1,100.30	<b>770.21</b>
ER32	Metric 18pc Set	3-20mm x 1.0mm	336-990	943.10	<b>660.17</b>
ER40	Inch 15pc Set	1/8-1"	336-997	842.00	<b>589.40</b>
ER40	Metric 23pc Set	3.5-26mm	336-991	1,291.10	<b>903.77</b>



## 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	D	Tap Shank	Square	Code No.	Reg. Price \$	SALE Price \$
5/16"	2	1.220"	0.318"	0.238"	337-074	62.80	<b>43.96</b>
3/8"	2	1.220"	0.381"	0.286"	337-076	62.80	<b>43.96</b>
7/16"	2	1.220"	0.323"	0.242"	337-078	62.80	<b>43.96</b>
1/2"	2	1.220"	0.367"	0.275"	337-080	62.80	<b>43.96</b>
9/16"	2	1.220"	0.429"	0.322"	337-082	62.80	<b>43.96</b>
5/8"	2	1.220"	0.480"	0.360"	337-084	62.80	<b>43.96</b>
11/16"	2	1.220"	0.542"	0.406"	337-086	62.80	<b>43.96</b>
3/4"	2	1.220"	0.590"	0.442"	337-088	62.80	<b>43.96</b>
13/16"	2	1.220"	0.652"	0.489"	337-090	62.80	<b>43.96</b>
7/8"	2	1.220"	0.697"	0.523"	337-092	62.80	<b>43.96</b>
<b>NPT</b>							
1/4"P	2	1.220"	0.562"	0.421"	337-094	62.80	<b>43.96</b>
3/8"P	2	1.220"	0.700"	0.531"	337-096	62.80	<b>43.96</b>
1/2"P	2	1.220"	0.687"	0.515"	337-098	62.80	<b>43.96</b>

Full size range on promotion. See page G79 of our Catalogue



## GS-ADX-160G Machine Vise

- 6" vise with a 9" opening
- Spindle nut does not protrude past the end of body
- Bed height 73.025mm ±0.012 (2.875" ±0.0005")
- Spherical segment creates all-directional alignment and reduces jaw lift for improved performance
- The bearing pack is larger, stronger, and more durable
- New brush seal design
- Weight: 68 lbs

**NEW**

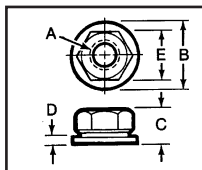
Code No.: 327-320  
Reg. Price: \$795.80

**\$676.43**



## Flange (Collar) Nuts

- Case hardened
- Black oxide finish



Model No.	Thread A	B	C	D	E	Code No.	Reg. Price \$	SALE Price \$
<b>Inch</b>								
FN-38	3/8-16"	7/8"	1/2"	1/8"	11/16"	607-168	3.00	<b>2.40</b>
FN-12	1/2-13"	1-1/8"	11/16"	3/16"	7/8"	607-172	3.40	<b>2.72</b>
FN-58	5/8-11"	1-3/8"	13/16"	3/16"	1-1/16"	607-174	4.20	<b>3.36</b>
FN-34	3/4-10"	1-5/8"	1"	1/4"	1-1/4"	607-176	6.40	<b>5.12</b>
FN-78	7/8-9"	1-3/4"	1-1/8"	1/4"	1-7/16"	607-178	8.70	<b>6.96</b>
<b>Metric</b>								
61604	M12 x 1.75mm	27mm	17mm	4mm	19mm	608-768	5.00	<b>4.00</b>
61605	M16 x 2.0mm	33mm	21mm	5mm	24mm	608-769	5.60	<b>4.48</b>

Full size range on promotion. See page H23 of our Catalogue

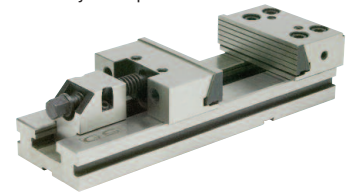


## GS Plain Base Modular Vises

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"	382-005	1,004.30	<b>753.23</b>
2	5"	6"	1.575"	1.6"	382-010	1,106.10	<b>829.58</b>
3	6"	8"	1.968"	1.97"	382-015	1,206.10	<b>904.58</b>
3	6"	12"	1.968"	1.97"	382-017	1,408.00	<b>1,056.00</b>
4	7"	12"	2.283"	2.4"	382-025	1,810.10	<b>1,357.58</b>
4	7"	16"	2.283"	2.4"	382-030	2,012.00	<b>1,509.00</b>
5	8"	12"	2.756"	2.6"	382-040	2,617.60	<b>1,963.20</b>
5	8"	16"	2.756"	2.6"	382-045	3,019.70	<b>2,264.78</b>
5	8"	20"	2.756"	2.6"	382-050	3,623.60	<b>2,717.70</b>

Full size range on promotion. See page H3 of our Catalogue



## 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.: 382-620  
Reg. Price: \$1,130.00

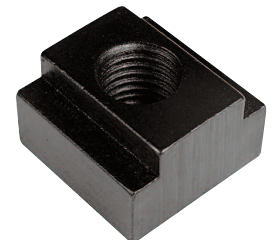
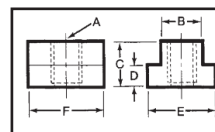
**\$960.50**



## T-Slot Nuts - Inch

Last thread incomplete to prevent stud from turning through bottom of nut into machine table.

- Case hardened
- Black oxide finish



Model No.	Table Slot	Thread A	B	C	D	E	F	Code No.	Reg. Price \$	SALE Price \$
563	9/16"	1/2-13"	0.552"	5/8"	0.333"	7/8"	1-1/8"	607-116	3.90	<b>3.12</b>
625	5/8"	1/2-13"	0.615"	5/8"	0.333"	1"	1-1/8"	607-118	4.40	<b>3.52</b>
626	5/8"	1/2-13"	0.615"	3/4"	0.365"	1-1/8"	1-1/8"	607-120	5.90	<b>4.72</b>
687	11/16"	1/2-13"	0.677"	3/4"	0.427"	1-1/8"	1-1/4"	607-122	4.80	<b>3.84</b>
688	11/16"	5/8-11"	0.677"	3/4"	0.427"	1-1/8"	1-1/4"	607-128	5.00	<b>4.00</b>
813	13/16"	3/4-10"	0.802"	1"	0.552"	1-1/4"	1-1/2"	607-134	8.40	<b>6.72</b>



## 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	366-004	38.60	<b>28.95</b>
BT40	GS444X45	N	M16x2	366-006	28.90	<b>21.68</b>
CT40	GSC470X15	Y	5/8x11	366-034	24.10	<b>18.08</b>
CT40	GSC474	Y	5/8x11	366-038	24.10	<b>18.08</b>
CT40	GSC475	Y	5/8x11	366-040	24.10	<b>18.08</b>
CT40	GS475	N	5/8x11	366-042	24.10	<b>18.08</b>
CT40	GS532X45	N	5/8x11	366-050	24.10	<b>18.08</b>
CT40	GSC532X45	Y	5/8x11	366-058	24.10	<b>18.08</b>
CT50	GSC275	Y	1x8	366-096	30.20	<b>22.65</b>
CT50	GSC536X45	Y	1x8	366-104	30.20	<b>22.65</b>

Full size range on promotion. See page G116 of our Catalogue



## 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	326-215	43.60	<b>30.52</b>
VTW-50	#50	265mm	326-220	63.40	<b>44.38</b>



## Simple Tool Setting Stands

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

Available in all tapers.

- This is an excellent helping tool for simple, rapid and safe tool holding
- For Cat BT & NMTB Tapers

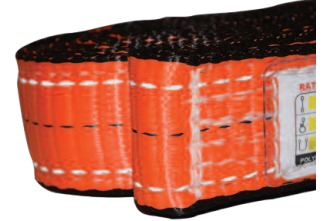
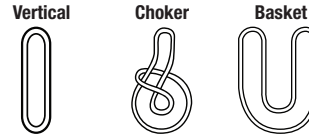


Model	Code No.	Reg. Price \$	SALE Price \$
TL-30	335-200	397.20	<b>278.04</b>
TL-35	335-205	397.20	<b>278.04</b>
TL-40	335-210	397.20	<b>278.04</b>
TL-50	335-220	397.20	<b>278.04</b>



## Reflective Polyester Slings

- Web slings are made from polyester web material
- Great choice for load protection and are flexible and light weight
- The wear point on an endless sling can be rotated for longer lifespan
- Capacities indicated on tag are maximum for new slings; DO NOT EXCEED



Size	Vertical	Capacity Choker	Basket	Code No.	Reg. Price \$	SALE Price \$
1" x 2 ft	1,600 lbs.	1,200 lbs.	3,200 lbs.	904-008	15.50	<b>10.61</b>
1" x 3 ft	1,600 lbs.	1,200 lbs.	3,200 lbs.	904-009	16.50	<b>11.41</b>
2" x 6 ft	3,200 lbs.	2,400 lbs.	6,400 lbs.	904-011	23.90	<b>21.90</b>
2" x 10 ft	3,200 lbs.	2,400 lbs.	6,400 lbs.	904-013	30.25	<b>26.78</b>

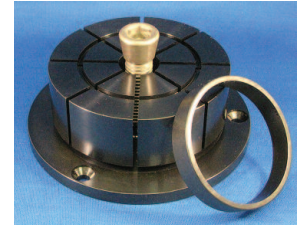
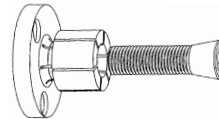
Full size range on promotion. See flyer on SowaTool.com



## ID Xpansion™ Clamps

The ideal way to hold multiple parts on an inside diameter for machining. These machinable clamps are produced in 12 sizes and can hold internal diameters from 0.290 to 9.85.

- Low Profile
- Ideal for Secondary Operations on Lathe Parts
- Easily Machined to Size on Lathe or Mill
- Allows More Parts Per Workcube or Fixture Plates
- Clamp Body Made of Mild Steel for Machinability
- Tighten with Hex Key or Hydraulic Pull Cylinders



Mitee-Bite EDP	Model	Clamping Diameter	Max Torque	Holding Force	Code No.	Reg. Price \$	SALE Price \$
31000	#00	0.29	0.5 ft/lb	250 lbs	604-123	60.20	<b>48.16</b>
31050	#0	0.49	3.6 ft/lb	950 lbs	604-124	60.20	<b>48.16</b>
31150	#2	0.79	27.6 ft/lb	2,500 lbs	604-126	64.10	<b>51.28</b>
31200	#3	1.06	49.3 ft/lb	4,500 lbs	604-127	83.40	<b>66.72</b>
31250	#4	1.39	120.0 ft/lb	5,900 lbs	604-128	102.80	<b>82.24</b>

Full size range on promotion. See page H39 of our Catalogue



## Flat Tool Holders

For Turret Type Quick Change Tool Posts

- Tool shank is held securely by four hardened screws
- Can be scraely fastened to the main block by a simple and safe eccentric device, which also adjusts individual too holder height
- Holds square or rectangular tool shanks



Size	Lathe Swing	Max. Tool Size	Code No.	Reg. Price \$	SALE Price \$
A	10"-14"	3/4"	385-210	99.20	<b>69.44</b>
B	14"-18"	1-1/8"	385-215	130.00	<b>91.00</b>
C	18"-24"	1-1/4"	385-220	168.00	<b>117.60</b>
D	over	1-1/2"	385-225	606.00	<b>424.20</b>

Full size range on promotion. See page K20 of our Catalogue

## GS Driven Tooling

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

- Main body designed to maximize rigidity and reduce vibration
- Specially treated corrosion resistant steel body
- Angular contact bearings + taper roller bearings on output spindle for better rigidity and longer life
- Gleason spiral bevel gears with completely ground involute form

- Rated up to 80Nm torque and 8,000 rpm
- Internal coolant option - up to 80bar
- 2 Year Warranty



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

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

▼ Direction of rotation is same as machine spindle

▼ Direction of rotation is opposite to machine spindle

Model	Orient	Rotation	Turret	Output	Internal Coolant	Nm	Rpm	Gauge Length	Code No.	Price \$
99.DS.A01	AX	▼	BMT55	ER 25	-	40	8,000	57.2 mm	381-512	1,790.80
99.DS.A02	AX	▼	BMT55	ER 25	• 80bar	40	8,000	57.2 mm	381-513	2,054.10
99.DS.A11	RD	▼	BMT55	ER 25	-	40	8,000	70 mm	381-514	3,370.80
99.DS.A12	RD	▼	BMT55	ER 25	• 80bar	40	8,000	70 mm	381-515	3,981.80

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

## STM NC/CNC Tool Trolleys

Complete Tool Trolley with 4 Tool Trays and Inserts.

- Trays bolt in
- (W)1002mm x (D)650mm x (H)830mm
- Weight: 51kgs



Taper Type	Trays	Inserts per Tray	Code No.	Reg. Price \$	SALE Price \$
40	4	7	326-985	1,065.20	745.64
50	4	5	326-995	1,065.20	745.64

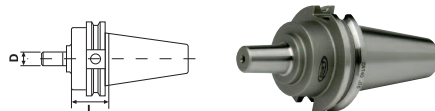
## GS Super Heavy Duty Ball Bearing Drill Chucks

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	536-500	63.70	44.59
16BXH	3/64-5/8"	JT3	536-502	78.70	55.09
19BXH	3/64-3/4"	JT4	536-504	152.70	106.89



### CAT Taper Adapters

Taper	JT Size	L	D	Code No.	Reg. Price \$	SALE Price \$
CT40	JT#3	1.61"	0.560"	531-492	144.30	101.01
CT40	JT#4	1.58"	0.812"	531-494	144.30	101.01
CT40	JT#6	1.49"	1.13"	531-496	144.30	101.01
CT50	JT#3	1.61"	0.560"	531-502	190.30	133.21
CT50	JT#4	1.58"	0.812"	531-504	190.30	133.21
CT50	JT#6	1.49"	1.13"	531-506	190.30	133.21

## GS CAT40 Shrink Fit Tooling with 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  $\leq 0.0001$ " 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	Gauge Length	Code No.	Reg. Price \$	SALE Price \$
CAT40	1/8"	3.15"	541-838	389.50	272.65
CAT40	1/4"	3.15"	541-842	389.50	272.65
CAT40	1/4"	6.30"	541-844	458.80	321.16
CAT40	3/8"	3.15"	541-850	389.50	272.65
CAT40	3/8"	6.30"	541-852	458.80	321.16
CAT40	1/2"	3.15"	541-854	389.50	272.65
CAT40	1/2"	6.30"	541-856	458.80	321.16
CAT40	3/4"	3.15"	541-862	389.50	272.65
CAT40	3/4"	6.30"	541-864	458.80	321.16
CAT40	1"	3.94"	541-866	389.50	272.65

Full size range on promotion. See flyer on SowaTool.com

## STM Adjustable Coolant Hose & Valve Kits



Each kit contains either a male or female NPT valve, a quantity of segments, and a round nozzle.

- Highly rigid yet resilient and strongly resistant to oils and chemicals.
- It holds its shape well and will not spring back.
- Bending hose will not reduce inner diameter; hose will not pinch or fatigue.
- Will not damage cutting blades if there is accidental contact.
- Does not conduct electricity and is suitable for use on electrical discharge (EDM) machines.
- Designed for the transport of low-pressure fluids

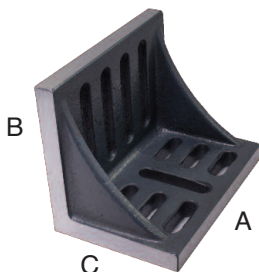
Size	No. of Segments	Male Code No.	Reg. Price \$	SALE Price \$	Female Code No.	Reg. Price \$	SALE Price \$
1/4"	20	665-456	26.80	18.76	665-458	26.80	18.76
3/8"	16	665-460	32.70	22.89	665-462	32.70	22.89
1/2"	12	665-464	40.10	28.07	665-466	40.10	28.07

## Slotted Angle Plates-Webbed

Made of high-tensile cast iron seasoned against distortion, skillfully machined square and parallel. Machined on outside surfaces and edges only.

- Partially machined angle plates are used for general purpose machining, close tolerance layout, and inspection set-up. They are versatile and also used for vertical reference.

- Designed with clamping slots for mounting, layout, and inspection operations. Can be used as backing plates.



A	B	C	Webbed Code No.	Reg. Price \$	SALE Price \$
3"	2-1/2"	2"	370-306	83.20	<b>58.24</b>
3-1/2"	3"	2-1/2"	370-311	93.50	<b>65.45</b>
4-1/2"	3-1/2"	3"	370-316	106.40	<b>74.48</b>
6"	5"	4-1/2"	370-321	168.40	<b>117.88</b>

## Toolmaker Vises

- Solid one piece body
- High quality alloy steel, surface hardened to HRC58-62
- Parallelism: 0.005mm/100mm
- Perpendicularity: 0.005mm
- Angled centre channel provides extra jaw capacity



Model No.	Length (mm)	Width (mm)	Jaw Opening (mm)	Jaw Height (mm)	Code No.	Reg. Price \$	SALE Price \$
QKG50	140	50	65	25	230-815	110.80	<b>83.10</b>
QKG63	175	63	85	32	230-820	135.50	<b>101.63</b>
QKG73	190	73	100	35	230-825	147.00	<b>110.25</b>
QKG88	235	88	125	40	230-830	225.60	<b>169.20</b>
QKG100	245	100	125	45	230-835	297.80	<b>223.35</b>

## Arbor Presses

- Lever arm allows you to easily change positions comfortably for maximum leverage
- Convenient front and side gib adjustment
- 4 position anvil
- Heavy-duty construction for long lasting reliability
- Steel pinions and rams

Capacity Ton	Throat Depth (in.)	Height of Press	Base Dimensions	Largest Arbor Size	Length	Stroke	Code No.	Reg. Price \$	SALE Price \$	
1/2"	2-7/8"	10"	4 x 9-1/2"	1-1/8"	3/4 x 3/4"	7-1/2"	4-1/2"	326-090	124.80	<b>87.36</b>
1"	3-1/4"	12"	5 x 11"	1-3/8"	1 x 1"	9-1/2"	5-1/4"	326-092	179.70	<b>125.79</b>
2"	5"	17"	6-3/4 x 17"	1-3/4"	1-1/4 x 1-1/4"	14"	8-1/2"	326-094	409.40	<b>286.58</b>
3"	5-3/4"	21-1/2"	8 x 18"	2-1/2"	1-1/2 x 1-1/2"	18"	12-1/2"	326-096	646.80	<b>452.76</b>
5"	8-3/4"	35-3/4"	10 x 26-3/4"	3-1/4"	2 x 2"	26-3/4"	18-1/8"	326-098	2,076.40	<b>1,453.48</b>
<b>Ratchet Type</b>										
3"	5-3/4"	21-1/2"	8 x 18"	2-1/2"	1-1/2 x 1-1/2"	18"	12-1/2"	326-099	753.90	<b>527.73</b>



## Precision Boring Heads

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



Head Dia.	Hole Size	Offset	Code No.	Reg. Price \$	SALE Price \$
2"	1/2"	1/2"	356-001	153.80	<b>115.35</b>
3"	3/4"	3/4"	356-002	221.70	<b>166.28</b>
4"	1"	1"	356-003	377.80	<b>283.35</b>

## Shanks For Boring Heads



Size	Thread	Code No.	Reg. Price \$	SALE Price \$
R8	1-1/2" - 18TPI	356-010	107.00	<b>80.25</b>
ISA40	1-1/2" - 18TPI	356-012	130.80	<b>98.10</b>
3/4" S.S.	1-1/2" - 18TPI	356-018	83.30	<b>62.48</b>
MT4	1-1/2" - 18TPI	356-020	118.90	<b>89.18</b>
1" S.S.	1-1/2" - 18TPI	356-025	83.30	<b>62.48</b>

## ASIMETO 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



Model	Pull Action	Code No.	Reg. Price \$	SALE Price \$
With 6" Rod and Universal clamp	132 lbf	7601011	36.30	<b>25.41</b>
With 6" Adjustable Rod / Fine Adjustment	132 lbf	7601021	33.60	<b>23.52</b>

## ASIMETO AGD2 Dial Indicators

- 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



7402265

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	106.60	<b>74.62</b>
0-0.25"	0.0005"	0-25-0	0.05"	3/8"	7402065	62.20	<b>43.54</b>
0-1"	0.0005"	0-50	0.05"	3/8"	7402265	49.60	<b>34.72</b>
0-0.25"	0.001"	0-100	0.1"	3/8"	7402061	41.70	<b>29.19</b>
0-1"	0.001"	0-100	0.1"	3/8"	7402261	41.20	<b>28.84</b>
0-1"	0.001"	0-50-0	0.1"	3/8"	7402263	49.60	<b>34.72</b>
0-2"	0.001"	0-100	0.1"	3/8"	7402511	95.70	<b>66.99</b>

Full size range on promotion. See page F36 of our Catalogue

## STM Magnetic Base

### Features:

- For 3/8" stems or 1/4" lug backs
- On/Off switch
- Bottom V for working on rounded surfaces
- 60kg magnetic pull
- Precision surfaces and bottom V are securely fastened to the ferrous workpiece or machine table when the rotary knob is in the On position



Code No.: 225-705  
Reg. Price: \$31.70

**\$23.78**

## STM AGD2 Dial Indicators

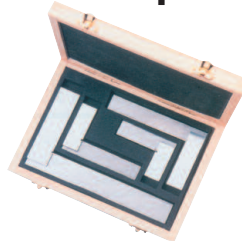
- Reverse counter
- Stainless steel components
- Rotating bezel with clamp
- Lugback (1/4" hole)
- Interchangeable point



Travel Range	Dial Reading	Graduation	Dial Colour	Code No.	Reg. Price \$	SALE Price \$
1/4"	0-100	0.001"	White	200-745	36.40	<b>27.30</b>
1/2"	0-100	0.001"	White	200-718	37.80	<b>28.35</b>
1"	0-100	0.001"	White	200-720	35.90	<b>26.93</b>
1"	0-50	0.0005"	White	200-755	43.30	<b>32.48</b>
2"	0-100	0.001"	White	200-725	83.40	<b>62.55</b>
1"	0-100	0.001"	White	200-010	35.90	<b>26.93</b>

## STM Engineer's Precision Squares

Hardened spring steel blades are permanently fixed to the stock by means of tapered self-locking rivets which ensure complete rigidity. Both the blade and stock are precisely ground to ensure straightness and parallelism.



- Internal and external squareness as per BS939 Grade B

Blade Length (in.)	Model No.	Squareness	Code No.	Reg. Price \$	SALE Price \$
2	SS/A/2	0.00063"	231-000	26.00	<b>18.20</b>
3	SS/A/3	0.00063"	231-010	26.00	<b>18.20</b>
4	SS/A/4	0.00063"	231-015	36.10	<b>25.27</b>
6	SS/A/6	0.00063"	231-020	46.00	<b>32.20</b>
9	SS/A/9	0.00094"	231-030	115.00	<b>80.50</b>
12	SS/A/12	0.00094"	231-040	172.70	<b>120.89</b>
Set 1	SS/A/2-3-4-6		231-045	153.30	<b>107.31</b>
Set 2	SS/A/2-4-6		231-050	127.40	<b>89.18</b>

Set 1 contains one each of 2", 3", 4" and 6" Squares, Set 2 contains one each of 2", 4" and 6" Squares

## STM Bevel Edge Square

- Accuracy Class H
- Hardened steel squares
- Accurate right angles both inside and outside
- Blades are beveled on both edges of each side
- Made from a single piece of fully seasoned tool steel
- Beams and blades are ground and accurately lapped for straightness and parallelism

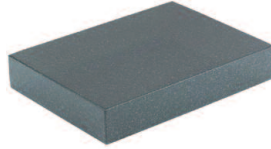


**While Supplies Last**

Blade Size	Beam	Code No.	Reg. Price \$	SALE Price \$
7-7/8"	5"	230-360	72.00	<b>54.00</b>

## STM Black Granite Surface Plates

- Made of the highest quality, true black, fine grained, non-porous, jewel hardness imported black granite
- Compressive strength: 7329 lb/in<sup>2</sup>
- Water absorptivity: 0.13%



Grade B-Tool Room- No Ledge

Size	Thickness	(±)	Code No.	Reg. Price \$	SALE Price \$
9 x 12"	3"	0.0001	255-100	81.00	<b>60.75</b>
12 x 18"	3"	0.0001	255-105	125.60	<b>94.20</b>
18 x 24"	4"	0.00015	255-110	333.40	<b>250.05</b>
24 x 36"	4"	0.0002	255-115	612.20	<b>459.15</b>
36 x 48"	6"	0.0004	255-120	1,660.70	<b>1,245.53</b>
48 x 72"	8"	0.0007	255-125	4,839.70	<b>3,629.78</b>

## ASIMETO Plate Cleaner

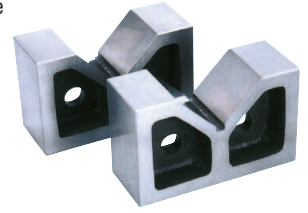
Description	Code No.	Reg. Price \$	SALE Price \$
Pint	7607510	9.90	<b>6.93</b>

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



## STM Cast Iron Vee Blocks

Supplied in matched and numbered pairs, these vee blocks are manufactured from high quality castings, properly seasoned against distortion, and are accurately machined square and parallel. The 90° vee is centered and true.



Vee Width	Vee Depth	Width	Height	Thickness	Code No.	Reg. Price \$	SALE Price \$
1"	1/2"	2"	1-1/4"	1-7/8"	370-556	61.20	<b>42.84</b>
1-3/4"	7/8"	3"	2-3/8"	2-5/8"	370-561	93.80	<b>65.66</b>
2-1/8"	1"	4"	2-5/8"	3-1/4"	370-566	125.90	<b>88.13</b>
2-3/8"	1-1/8"	5"	3-1/8"	4"	370-571	190.00	<b>133.00</b>
3-1/8"	1-9/16"	6"	3-1/2"	5"	370-576	235.50	<b>164.85</b>
4-1/2"	2-1/4"	8"	5-1/2"	8"	370-586	468.20	<b>327.74</b>
5"	2-1/2"	10"	6-5/8"	10"	370-591	737.20	<b>516.04</b>
5-1/8"	2-1/2"	12"	8"	12"	370-596	1,432.00	<b>1,002.40</b>

## STM Set-Up Blocks

- Heat treated and case hardened to HRC 55-60
- Precision ground and case hardened
- Squareness of all sides is within 0.0001"
- Parallel Accuracy 0.0003"
- Surface finish 6-16 micro inches
- 23 holes-5 are tapped in 3/8-16
- Supplied in pairs



Size	Description	Code No.	Reg. Price \$	SALE Price \$
2-4-6	23 Holes	230-872	279.70	<b>209.78</b>
1-2-3	No Hole (Pair)	230-874	50.00	<b>37.50</b>

## STM Edge & Centre Finders

• Edge and Centre Finders are time saving positioning tools for use in jig boring, milling machines etc. These are used for accurately locating work edges, shoulders, grooves, centre points, and scribed lines.



Model	Finder	Tip Dia.	Shank Dia.	Code No.	Reg. Price \$	SALE Price \$
EF/1	Edge	0.200"	3/8"	231-310	16.40	<b>11.48</b>
EF/3	Centre		1/2"	231-302	19.50	<b>13.65</b>
EF/4	Edge	0.200"	1/2"	231-312	19.50	<b>13.65</b>
EF/5	Edge & Centre	0.200"	1/2"	231-308	22.20	<b>15.54</b>
EF/6	Edge & Centre	0.200"	3/8"	231-306	20.90	<b>14.63</b>
EF/7	Double Edge	0.200"	1/2"	231-318	20.90	<b>14.63</b>
EF/8	Edge	1/2"	1/2"	231-316	18.80	<b>13.16</b>
EF/9	Centre		3/8"	231-304	18.80	<b>13.16</b>
EF/11	Edge	10mm	3/8"	231-314	19.50	<b>13.65</b>

## STM Precision 1-2-3 Blocks

- These blocks are very useful in mounting work for precision grinding, layout work, etc.
- Blocks are hardened to 58-60 HRC and ground to surface finish 6-10 micro inches
- Tolerances are guaranteed to 0.0001" for squareness per inch
- 0.0002" for parallelism
- Blocks are matched and measure 1" x 2" x 3"
- Price includes fitted case



Code No.: 230-876  
Reg. Price: \$48.70

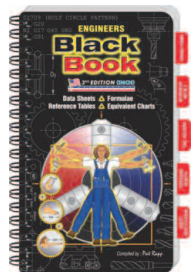
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- Hardening and Tempering
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- Illustrations
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- Plastics
- Weights of Metals
- Equivalent Charts
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- Conversion Factors
- Formulae
- Keys and Keyways
- Speeds and Feeds
- G Codes
- Engineering Drawing Standards
- Geometrical Construction
- Free set of self-adhesive bookmarking tabs included



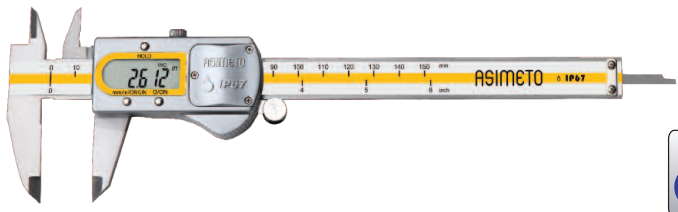
Code No.: 180-151  
Reg. Price: \$61.10

**\$45.83**



## ASIMETO IP67 Coolant Proof Digital Calipers

- 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	210.90	<b>147.63</b>
0-8" / 0-200mm	0.0005" / 0.01mm	±0.0015"	7305082	323.20	<b>226.24</b>
0-12" / 0-300mm	0.0005" / 0.01mm	±0.0015"	7305122	389.20	<b>272.44</b>

## **STM** 6" Horizontal Digital Scale Unit

- 0-6" / 0-150mm
- Accuracy: ±0.03mm
- Resolution: 0.01mm
- Zero setting at any location
- Inch/Metric conversion
- Made of hardened Stainless Steel
- 2 LR44H batteries included
- Includes Z-shaped mounting bracket

Code No.: 201-050  
Reg. Price: \$164.20

**\$123.15**



## **STM** 28pc Transfer Punch Set

- 28 Punches**
- Heat treated tempered steel
  - Consists of one each of punch sizes 3/32" thru 1/2" x 64th plus 17/32"



Code No.: 200-750  
Reg. Price: \$30.90

**\$23.18**

## ASIMETO Telescoping Gauges

- Features:
- Plunger is spring loaded and expands within the bore, allowing measurement of the internal diameter



Range	Depth	Model	Code No.	Reg. Price \$	SALE Price \$
0.315"-0.500"	4.2"	A	7487011	10.30	<b>7.21</b>
0.500"-0.748"	4.4"	B	7487021	12.10	<b>8.47</b>
0.748"-1.26"	4.4"	C	7487031	14.30	<b>10.01</b>
1.26"-2.126"	5.85"	D	7487041	15.10	<b>10.57</b>
2.126"-3.54"	5.85"	E	7487051	16.60	<b>11.62</b>
3.54"-5.90"	5.85"	F	7487061	14.50	<b>10.15</b>
0.315-5.90" Set of 6		A,B,C,D,E,F	7487869	52.00	<b>36.40</b>

## ASIMETO IP65 Digital Outside Micrometer w/SPC

- 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: \$216.40

**\$151.48**



## **STM** Letter & Number Stamp Sets

High quality steel punches are through induction hardened, which gives durability and extended life even after repeated use. The hardness at the stamping end is maintained at 58-62 HRC, the striking end is tempered to 38-43 HRC.



Stamp Size	27pc A - Z plus "&" stamp			9pc #0-8		
	Code No.	Reg. \$	SALE \$	Code No.	Reg. \$	SALE \$
1/8"	606-615	51.70	<b>36.19</b>	606-600	17.30	<b>12.11</b>
3/16"	606-620	73.70	<b>51.59</b>	606-605	24.60	<b>17.22</b>
1/4"	606-625	92.70	<b>64.89</b>	606-610	30.90	<b>21.63</b>

## STM 3/8" Black/Gold Stub Drill

- High Speed Steel
- Black/Gold finish extends tool life
- 140° split point penetrates faster and prevents bit walk

Code No.: 909-849 **\$1.75**  
Reg. Price: \$3.50



## STM Micrometer Stand

- Cast iron

Code No.: 200-500 **\$20.68**  
Reg. Price: \$37.60



## STM Filter Regulators & Lubricators

The **Filter-Regulator Combination & Lubricator** are attached in series using spacers & piping adapters, which makes the 2 components easily removable / mountable without disturbing the pipe line. Comes complete with a wall mounting bracket.



231-486

**FRCLM-13** MINIATURE  
Max flow rate:  
**18 CFM / 508 LPM**  
Min flow rate:  
**0.42 CFM / 12 LPM**  
Threaded type steel bowl guard  
Bowl Size (Filter): 9 ml  
(Lubricator): 20 ml

- Max PSI: 145 (10BAR)
- Ambient Temp 0-60°C (32-140°F)
- Pressure Gage Port Size 1/8"



231-488

**FRCLM-15** STANDARD  
Max flow rate:  
**99 CFM / 2800 LPM**  
Min flow rate:  
**1.59 CFM / 45 LPM**  
Bayonet type steel bowl guard,  
Regulator with in-built Venturi for  
Flow Compensation  
Bowl Size (Filter): 44 ml  
(Lubricator): 152 ml

Model	Description	Port Size	Code No.	Reg. Price	SALE \$
FRCLM139134-S	Miniature	1/4"	231-486	197.40	<b>108.57</b>
FRCLM159334-S	Standard	1/2"	231-488	356.40	<b>196.02</b>

## STM 3pc Aviation Tin Snips Set

- Size: 245mm
- Chrome Vanadium Blade with polish
- Self opening action
- Left Cut, Straight Cut, Right Cut



Code No.: 505-003 **\$25.80**  
Reg. Price: \$43.00

## ASIMETO Digital Height System

### ValuePlus 300

- 300mm range can be extended to 570mm with new probe hold system
- 8mm dia. probe hold system compatible with all standard probes
- Newly designed operating system and measuring software
- 6.4" colour screen
- Resolution: 0.01 / 0.001 / 0.0001mm
- Accuracy: (2.6+5L) µm\* (L unit : m)
- Air cushion for easy handling

Code No.: 7628120  
Reg. Price: \$22,701.00

**\$12,000.00**



## STM Lever Type Oil Cans

This series of oil cans have a modern and contemporary design with a dome shaped body. Most popularly used oil can style all over the world. Manufactured with a steel pump, powder coated red body, and a flexible wire braided extension.



Model	Capacity	Spout Length	Code No.	Reg. Price \$	SALE Price \$
MP21F	200 ml	6"	231-392	15.40	<b>8.47</b>
MP22F	300 ml	6"	231-394	16.20	<b>8.91</b>
MP23F	500 ml	7"	231-396	17.70	<b>9.74</b>

## STM Filter Regulator Combination



The **Filter-Regulator Combination** is one of the most popular air preparation units. The Filter is designed with a Separator & Shield for efficient moisture separation. It is combined with a Regulator which maintains a steady outlet pressure, unaffected by variations/fluctuations in the inlet pressure.

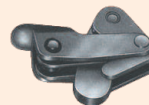
**FRC-15**  
Max flow rate:  
**106 CFM / 3000 LPM**  
Bayonet type steel bowl guard,  
Regulator with in-built Venturi for  
Flow Compensation  
Pressure Gage Port Size: 1/8"

- Bowl size: 1.5oz (44ml)
- Max 145 PSI (10BAR)
- Ambient Temp 0-60°C (32-140°F)

Model	Description	Port Size	Code No.	Reg. Price \$	SALE Price \$
FRC159334-S	Standard	1/2"	231-484	199.30	<b>109.62</b>

## STM Heavy Duty Weldable Toggle Clamps

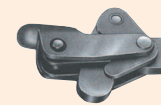
Drop forged and accurately machined. Come with hardened pivot pins and bushings.



Model GH 70305  
• Capacity: 700 kg  
• Weight: 0.76 kg

Code No.: 362-070  
Reg. Price: \$115.40

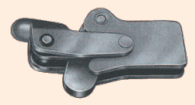
**\$46.16**



Model GH 70310  
• Capacity: 700 kg  
• Weight: 0.85 kg

Code No.: 362-072  
Reg. Price: \$119.40

**\$47.76**



Model GH 70315  
• Capacity: 700 kg  
• Weight: 0.94 kg

Code No.: 362-074  
Reg. Price: \$119.40

**\$47.76**

# WAREHOUSE SALE



## 0-6" Vernier Caliper



- 0-6" / 0-150mm
- Graduation: 0.001" / 0.05mm
- With thumb lock
- Satin chrome finish
- Made of fully hardened stainless steel throughout
- Has a depth scale which can be read directly on verniers
- Jaws designed for outside, inside, and step measurement
- Micro-fine black graduation on a satin chrome finish for easy reading
- All measuring surfaces are ground and lapped for extreme accuracy

Code No.: 200-210

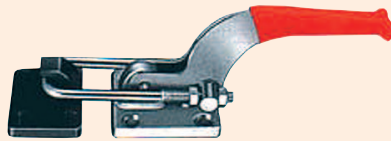
Reg. Price: \$64.20

**\$35.31**



## Latch Type Toggle Clamp

- Model GH 40370
- Max Capacity: 1,818 kg
- Weight: 1.260 kg
- Supplied with red vinyl hand grip
- Heavy duty
- Forged alloy steel base



Code No.: 362-066

Reg. Price: \$92.60

**\$37.04**



## 6" Precision Milling Machine Vise

- Vises are Matched (2.875" bed height)
- An integral key and large fasteners reduce deflection by 50%
- 4 jaw plate positions allow extra capacity with the jaw plates in the outside position
- Chip cover protects leadscrew from damage
- The quality movable jaw does not lift off the bed, and the deflection of the stationary jaw is minimized



Code No.: 327-290M

Reg. Price: \$747.20

**\$597.76**



## Lock-Well Precision Milling Vise

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



Code No.: 327-130

Reg. Price: \$1,690.90

**\$1,352.72**



## 9pc Combination Wrench Set

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



Code No.: 505-001

Reg. Price: \$49.20

**\$27.06**



## CAT40 ER Collet Chucks

- Traverse ground shank for optimum accuracy
- Meets or exceeds ANSI specifications
- TIR 0.0002"

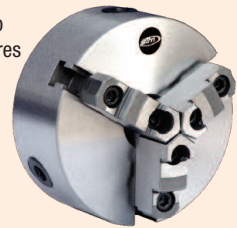


Taper	Collet Series	Gauge Length	Nose Diameter	Code No.	Reg. Price \$	SALE Price \$
CAT40	ER16	3.50"	1.250"	337-208	367.60	<b>183.80</b>
CAT40	ER25	2.75"	1.688"	337-220	367.10	<b>183.55</b>



## 3-Jaw Cast Iron Scroll Chucks

- This self-centering chuck is designed for all types of workshop machining operations on conventional lathes and milling fixtures
- Camlock mount
- Come with 2pc hard reversible jaws



Size	Mount	Hole Diameter	Max Speed	Code No.	Reg. Price \$	SALE Price \$
8"	D1-5	3.251"	2000	4440925	624.70	<b>437.29</b>
10"	D1-8	5.501"	1600	4440941	727.80	<b>509.46</b>
12"	D1-6	4.188"	1200	4440945	1,706.50	<b>1,194.55</b>
12"	D1-11	7.751"	1200	4440951	1,756.80	<b>1,229.76</b>



## Can Seam Micrometer

- Graduation: 0.0001" / 0.01mm
- Painted steel frame
- Measures the width, height, and depth of can seams
- Without certificate



Code No.: 7162019M

Reg. Price: \$192.60

**\$150.00**

## NOGA

### Deburring Blades & Handles



SAVE UP TO  
**15%**

Page 4

### Cobalt 3 Flute Countersinks Bright & TiN Coated



SAVE UP TO  
**25%**

Page 4

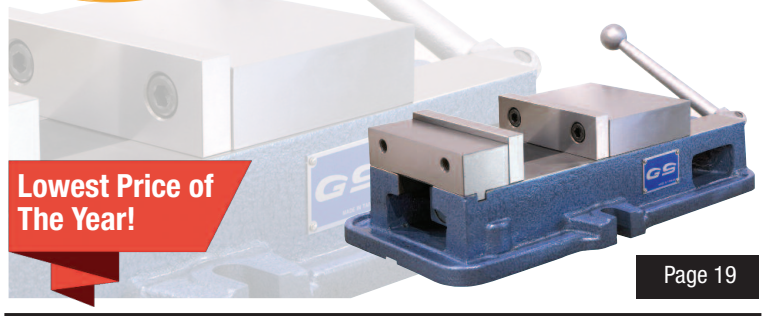
## ASIMETO AGD2 Dial Indicators



AS LOW AS  
**\$28.84**

Page 15

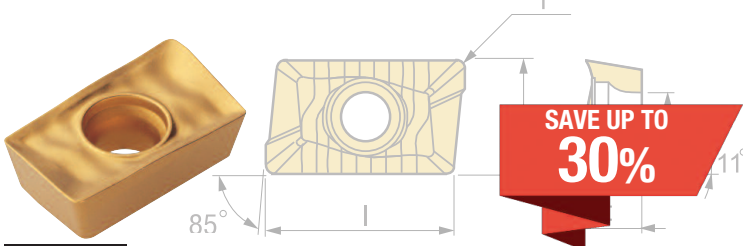
### 6" Precision Milling Machine Vise



Lowest Price of  
The Year!

Page 19

### APKT 1604 PDSR-M Carbide Inserts



SAVE UP TO  
**30%**

Page 6

### Reflective Polyester Slings



AS LOW AS  
**\$10.61**

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