

SOWA[®]

METALWORKING SOLUTIONS



Canadians Supporting Canadians



Pricing valid from October 1 to December 31, 2014



INTRODUCING

2014 Fall Flyer

HSS TIALN TIP JOBBER DRILLS

Letter & Wire Gauge sizes also available from stock!



Size (in.)	Decimal Equivalent	Flute Length (in.)	Overall Length (in.)	Code No.	SALE \$
1/16	.0625	13/16	1-3/4	127-001	0.66
5/64	.0781	1"	1-15/16	127-002	0.66
3/32	.0938	1-3/16	2-1/4	127-003	0.69
7/64	.1094	1-5/16	2-7/16	127-004	0.98
1/8	.1250	1-7/16	2-9/16	127-005	1.09
9/64	.1406	1-9/16	2-13/16	127-006	1.20
5/32	.1562	1-3/4	3"	127-007	1.24
11/64	.1719	1-7/8	3-3/16	127-008	1.31
3/16	.1875	2-1/16	3-7/16	127-009	1.38
13/64	.2031	2-1/16	3-7/16	127-010	1.67
7/32	.2188	2-1/4	3-11/16	127-011	1.78
15/64	.2344	2-1/4	3-11/16	127-012	2.04
1/4	.2500	2-1/2	4"	127-013	2.11
17/64	.2656	2-3/4	4-5/16	127-014	2.40
9/32	.2812	2-3/4	4-5/16	127-015	2.66
19/64	.2969	3"	4-5/8	127-016	3.02
5/16	.3125	3"	4-5/8	127-017	3.17
21/64	.3281	3"	4-5/8	127-018	3.60
11/32	.3438	3-1/4	4-15/16	127-019	4.00
23/64	.3594	3-1/4	4-15/16	127-020	4.37
3/8	.3750	3-7/16	5-1/4	127-021	4.41
25/64	.3906	3-7/16	5-1/4	127-022	5.02
13/32	.4062	3-7/16	5-1/4	127-023	5.28
27/64	.4219	3-3/4	5-5/8	127-024	5.72
7/16	.4375	3-3/4	5-5/8	127-025	6.23
29/64	.4531	3-3/4	5-5/8	127-026	6.70
15/32	.4688	4"	6"	127-027	7.10
31/64	.4844	4"	6"	127-028	7.61
1/2	.5000	4"	6"	127-029	7.94

Set

29pcs 1/16" - 1/2" 127-050 **116.32**



Distinct advantages over TiN Tip 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.
- Covers a wider range of materials.
- Maximum performance and cost savings over TiN Tip.



CAT TAPER KEYLESS DRILL CHUCKS

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 assures separation safety

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



Taper	Capacity	Gauge Length	Code No.	SALE \$
CAT40	1/4"	3.35"	531-480	175.76
CAT40	1/2"	4.16"	531-482	190.77
CAT40	5/8"	4.16"	531-483	314.18
CAT50	1/2"	4.16"	531-484	256.17
CAT50	5/8"	4.16"	531-485	453.24

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**CLEARANCE
CENTRE**

HUNDREDS OF
GREAT DEALS!

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SKODA HEAVY DUTY LIVE CENTRES

- The rotating spindle is extended right through the tapered shank
- Two specially designed adjustable needle-roller bearings carry all radial loads
- A heavy duty ball thrust bearing takes all axial thrust



**Save
20%**

Morse Taper	Centre Point Angle	Maximum Weight of Work Piece	Code No.	SALE \$
2	60°	600 lb	310-110	112.24
3	60°	900 lb	310-115	139.84
4	60°	1800 lb	310-120	175.76
5	60°	3000 lb	310-125	245.28
6	60°	7500 lb	310-130	423.92



12" 4PC COMBINATION SQUARE SET

- Protractor: 1° graduation
- Blade: 1mm, 64ths, 32nds, 0.5mm
- Blades are hardened and tempered for durability
- Square head has level and pointed attachment for hand scribing
- Gauge heads are hardened cast finished in baked enamel with exception of the measuring faces
- Micro-fine blade graduations



Description	Blade	Code No.	SALE \$
4pc Combination Square Set	12"/300mm	7490204	102.83



27PC LETTER STAMP SETS

Manufactured from high quality steel, punches are through induction hardened, which gives durability and extended life even after repeated use.



Description	Size	Code No.	SALE \$
27pc, A - Z, plus "&" stamp	1/8"	606-615	28.88
	3/16"	606-620	41.18
	1/4"	606-625	51.68



9PC NUMBER STAMP SETS

Manufactured from high quality steel, punches are through induction hardened, which gives durability and extended life even after repeated use.

**Save
25%**



Description	Stamp Size	Code No.	SALE \$
9pc, 0-9	1/8"	606-600	9.68
	3/16"	606-605	13.80
	1/4"	606-610	17.33



PROMO "E" NOGA SET NG8150

- For steel, aluminum, and plastic

Contains:

- Noga Grip 1 Handle
- 10pcs S10 (E100) blades



Model No.	Code No.	SALE \$
NG8150	165-464	14.95



BISON 2405-K POWER CHUCKS with 1.5mm x 60° Serrations

This first class chuck, with increased gripping accuracy, is made for very high precision machining on CNC lathes and turning centres. It is designed for high rotation speeds without compensating elements.

- High grade alloy steel which extends machine life while providing higher rigidity and greater wear resistance
- Hardened and ground working surfaces
- Master jaws secured against throw-off
- Master jaws lubricated directly
- Flat back mounting, dimensions according to DIN 6353



**Save
15%**

Size	Through Hole	Gripping Force	Max RPM	Weight	Code No.	SALE \$
6"/160mm	45mm	5700	6000	12 kg	468-104	2,652.64
8"/200mm	52mm	8600	5000	22 kg	468-116	2,878.90
10"/250mm	75mm	11100	4200	35 kg	468-124	3,473.03



COOLANT PROOF DIGITAL CALIPER

Features:

- IP67 Coolant Proof
- Inch/Metric conversion
- Absolute or incremental modes
- Hold function for easy reading



**Save
30%**

Range	Resolution	Accuracy	Code No.	SALE \$
0-6"/150mm	.0005"/0.01mm	±.001"/0.02mm	7305062	153.44



APFM FACE MILL KITS



x 10

**Save
10%**

Consists of:

- 1 - APFM 16-90 Face Mill
- 10- APKT 1604 Inserts

Kit Contents	Insert	Code No.	SALE \$
2" Face Mill	c/w 10 APKT 1604 PDSR M PM30P	149-907	230.22
2-1/2" Face Mill	c/w 10 APKT 1604 PDSR M PM30P	149-908	270.00
3" Face Mill	c/w 10 APKT 1604 PDSR M PM30P	149-909	296.10
4" Face Mill	c/w 10 APKT 1604 PDSR M PM30P	149-910	338.49
5" Face Mill	c/w 10 APKT 1604 PDSR M PM30P	149-911	650.07



24" HEIGHT GAUGE & SURFACE PLATE COMBO

Code # 500-729

\$935.06



- 0-24"/600mm
- Resolution: .0005"/0.01mm
- Fine adjustment

Code # 7625240
List \$730.80

Code # 255-115
List \$497.60

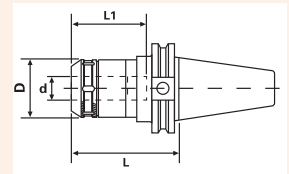




CAT TAPER MILLING CHUCKS & COLLETS

Features:

- DIN coolant thru the flange at no extra charge
- Rough milling or 'hogging' operations
- Improved tool life over regular end mill holders '360°' gripping contact
- Extreme rigidity over taper collets
- 0.0002" TIR for maximum tool life and accuracy



Taper	Collet Series	Clamping Range	d	L	L1	D	Code No.	SALE \$
CT40	GS 3/4"	.125-.750"	.750"	3.54"	3.15"	2.05"	531-253	243.84
CT40	GS 3/4"	.125-.750"	.750"	4.14"	3.15"	2.05"	531-250	243.84
CT40	GS 3/4"	.125-.750"	.750"	4.73"	3.15"	2.05"	531-252	243.84
CT40	GS 1"	.125-1.00"	1.00"	3.54"	3.15"	2.41"	531-255	243.84
CT40	GS 1"	.125-1.00"	1.00"	4.14"	3.15"	2.41"	531-254	243.84
CT40	GS 1-1/4"	.187-1.25"	1.25"	3.54"	3.34"	2.88"	531-257	243.84
CT40	GS 1-1/4"	.187-1.25"	1.25"	4.14"	3.34"	2.88"	531-256	243.84
CT40	GS 1-1/4"	.187-1.25"	1.25"	5.32"	4.73"	2.88"	531-258	301.04
CT50	GS 3/4"	.125-.750"	.750"	4.14"	3.15"	2.05"	531-260	304.64
CT50	GS 3/4"	.125-.750"	.750"	5.32"	3.15"	2.05"	531-262	304.64
CT50	GS 3/4"	.125-.750"	.750"	6.49"	3.15"	2.05"	531-263	349.28
CT50	GS 1"	.125-1.00"	1.00"	4.14"	3.15"	2.41"	531-264	304.64
CT50	GS 1-1/4"	.187-1.25"	1.25"	3.54"	4.73"	2.88"	531-265	353.12
CT50	GS 1-1/4"	.187-1.25"	1.25"	4.14"	4.73"	2.88"	531-266	304.64
CT50	GS 1-1/4"	.187-1.25"	1.25"	5.32"	4.73"	2.88"	531-268	319.68
CT50	GS 1-1/4"	.187-1.25"	1.25"	6.49"	4.73"	2.88"	531-269	368.00

■ GS 3/4" COLLETS

Size	Code No.	SALE \$
Inch		
1/8"	534-650	21.12
3/16"	331-469N	21.12
1/4"	331-470N	21.12
5/16"	331-472N	21.12
3/8"	331-474N	21.12
7/16"	534-660	21.12
1/2"	331-476N	21.12
9/16"	331-477N	21.12
5/8"	331-478N	21.12

■ GS 1" COLLETS

Size	Code No.	SALE \$
Inch		
1/8"	534-682	23.52
3/16"	534-684	23.52
1/4"	534-686	23.52
5/16"	534-688	23.52
3/8"	534-690	23.52
7/16"	534-692	23.52
1/2"	534-694	23.52
5/8"	534-696	23.52
3/4"	534-698	23.52
7/8"	534-700	23.52

■ GS 1-1/4" COLLETS

Size	Code No.	SALE \$
Inch		
3/16"	331-481N	27.44
1/4"	331-482N	27.44
5/16"	331-484N	27.44
3/8"	331-486N	27.44
7/16"	534-726	27.44
1/2"	331-488N	27.44
9/16"	331-489N	27.44
5/8"	331-490N	27.44
3/4"	331-492N	27.44
7/8"	331-494N	27.44
1"	331-496N	27.44

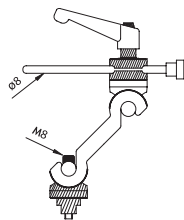


Metric sizes also available



U/N WORK STOPPER - TOOTHED

- Locking lever can be rotated a full 360°
- Arm made of anodized aluminum
- Steel hinge pins
- Slip adjustment of the stop pin before it is locked into place

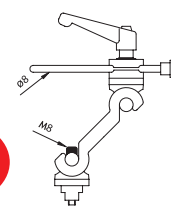


Model	T-Slot Size	Stop Pin Length	Height	Arm Length	Code No.	SALE \$
VWS-125	16mm	160mm	200mm	132mm	326-445	242.64



U/N WORK STOPPER - NON-TOOTHED

- Locking lever can be rotated a full 360°
- Arm made of anodized aluminum
- Steel hinge pins



Model	T-Slot Size	Stop Pin Length	Height	Arm Length	Code No.	SALE \$
VWS-123	16mm	160mm	200mm	132mm	326-440	231.44



0-12" OUTSIDE MICROMETER SET

- .001" graduation
- Ratchet stop
- Carbide faces
- Satin chrome finish

Save 40%



Description	Code No.	SALE \$
0-12" (12pc set)	7101729	694.56



0-24"/600MM DIGITAL HEIGHT GAUGE

Features:

- Fine adjustment
- Easy to read large LCD display
- Inch/Metric conversion

Save 30%



Range	Resolution	Accuracy	Code No.	SALE \$
0-24"/600mm	.0005" / 0.01mm	±.003"	7625240	536.83



BLACK/GOLD JOBBER DRILLS

New Product!

- HSS
- Black/Gold
- 135° split point



Size	Decimal Equivalent	Flute Length	Overall Length	Code No.	SALE \$
1/16	.0625	7/8	1-7/8	105-381	0.12
5/64	.0781	1	2	105-382	0.12
3/32	.0938	1-1/4	2-1/4	105-383	0.16
7/64	.1094	1-1/2	2-5/8	105-384	0.16
1/8	.1250	1-5/8	2-3/4	105-385	0.28
9/64	.1406	1-3/4	2-7/8	105-386	0.32
5/32	.1562	2	3-1/8	105-387	0.46
11/64	.1719	2-1/8	3-1/4	105-388	0.50
3/16	.1875	2-5/16	3-1/2	105-389	0.66
13/64	.2031	2-7/16	3-5/8	105-390	0.70
7/32	.2188	2-1/2	3-3/4	105-391	0.74
15/64	.2344	2-5/8	3-7/8	105-392	0.78
1/4	.2500	2-3/4	4	105-393	0.82
17/64	.2656	2-7/8	4-1/8	105-394	1.10
9/32	.2812	2-15/16	4-1/4	105-395	1.18

29PC BLACK/GOLD DRILL SET

- 1/16" - 1/2" by 64ths

Code No.: 105-380
Reg. List: \$105.30

\$45.22



Cont'd

Size	Decimal Equivalent	Flute Length	Overall Length	Code No.	SALE \$
19/64	.2969	3-1/16	4-3/8	105-396	1.22
5/16	.3125	3-3/16	4-1/2	105-397	1.34
21/64	.3281	3-5/16	4-5/8	105-398	1.50
11/32	.3438	3-7/16	4-3/4	105-399	1.85
23/64	.3594	3-1/2	4-7/8	105-400	1.93
3/8	.3750	3-5/8	5	105-401	2.01
25/64	.3906	3-3/4	5-1/8	105-402	2.09
13/32	.4062	3-7/8	5-1/4	105-403	2.29
27/64	.4219	3-15/16	5-3/8	105-404	2.69
7/16	.4375	4-1/16	5-1/2	105-405	2.81
29/64	.4531	4-3/16	5-5/8	105-406	2.89
15/32	.4688	4-5/16	5-3/4	105-407	3.13
31/64	.4844	4-3/8	5-7/8	105-408	3.49
1/2	.5000	4-1/2	6	105-409	3.69



AUTO CENTRE PUNCH

Save
25%

- Automatic, spring operated action
- Used for marking, punching, staking, and riveting
- 120mm length



Model	Code No.	SALE \$
VACP-1	326-290	16.58



.03" HORIZONTAL DIAL TEST INDICATOR

- Jewelled bearings
- Comes with 3/8" and 8mm dovetail stems
- Easy to read yellow face



Save
30%

Range	Graduation	Reading	Accuracy	Code No.	SALE \$
0-0.03"	.0005"	0-15-0	±.0005"	7501731	67.13



CENTERING INDICATOR

- Shank dia. 3/8"
- Operating speed not to exceed 800 rpm
- Comes with 6pc Feeler Set & Center Locating Feeler
- Range:
Internal: 5/32" - 12"/4mm-300mm
External: Up to 12"/300mm



Dial Range	Accuracy	Code No.	SALE \$
0-.15"	±.0002"	7469008	179.62



POLYURETHANE HAMMER SERIES

- Steel structure containing steel shot
- Main body made from polyurethane resin, the handle from soft quality TPR



Save
20%

Model	Head Diameter (mm)	Head Width (mm)	Overall Length (mm)	Weight (kg)	Code No.	SALE \$
VHM-38	38	100	287	0.49	231-460	23.20
VHM-46	46	100	306	0.69	231-462	26.08
VHM-50	50	110	340	0.93	231-464	32.32
VHM-56	56	120	353	1.16	231-466*	37.12

*Our most popular model



12" HACKSAW

New Product!

- A rugged heavy-duty industrial quality hacksaw designed for the professional.
- Strong aluminum die cast handle
 - Guarded grip design
 - Comes complete with a 12" chrome steel hacksaw blade



Save
25%

Model	O.A.L.	Bow Depth	Code No.	SALE \$
HF/12/BC	17-5/16"	4"	231-370	17.03



3PC AVIATION SNIP SET

- Fine polish

Save
25%

Description	Code No.	SALE \$
Aviation Snip Set	505-003	25.13





45° MAX MILL KITS - CUTTER BODY + 10 INSERTS

- 1 - MM 45° Face Mill
- 10 - SEXT 14M4 PM25C Inserts (Coated)
- For high speed milling of Steel and Stainless Steel
- Excellent general purpose geometry



**Save
20%**

Cutter	Inserts	Code No.	SALE \$
2-1/2" 4-flute (147-812)	SEXT 14M4 AGSN PM25C (147-730)	149-934	358.72
3" 5-flute (147-813)	SEXT 14M4 AGSN PM25C (147-730)	149-936	320.48

Our Most Popular General Purpose 45° Cutter



SET-UP BLOCKS

- Heat treated and case hardened to HRC 55-60
- Precision ground and case hardened
- Squareness of all sides is within .0001"
- Parallel Accuracy 0.0003"
- Surface finish 6-16 micro inches
- 23 holes-5 are tapped in 3/8"-16
- Supplied in pairs



**Save
20%**

Size	Description	Code No.	SALE \$
1-2-3	23 holes	230-870	29.92
2-4-6	23 holes	230-872	242.00



STEEL PARALLEL SET

- Thin style, 1/8" thick
- Matched pairs
- Made of high grade steel alloy
- Hardened and ground
- Tolerance $\pm 0.0003"$



**Save
25%**

Width	Height	Length	Code No.	SALE \$
1/8"	1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-5/8	6"	230-863	76.95



EDM TOOL MAKER VISES

- Parallelism: $\pm 0.002\text{mm}/100\text{mm}$
- Squareness: $\pm 0.002\text{mm}/100\text{mm}$
- Stainless Steel
- VSTV-50W designed specifically for wire cutter use



VSTV-50W



VSTV-100W



VSTV-150W

**Save
20%**

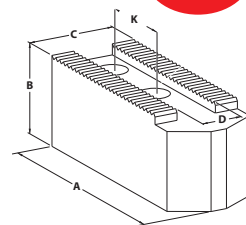
Model	Max Opening	Thickness	Jaw Depth	Weight (kg)	Code No.	SALE \$
VSTV-50W	55mm	27mm	25mm	1.0	230-840	481.52
VSTV-100W	100mm	24mm	50mm	4.9	230-842	1,249.60
VSTV-150W	150mm	24mm	60mm	6.8	230-844	2,502.40



KITAGAWA POWER CHUCK JAWS

Models B, BT, B200, BT200, HOH, HOB, N, NL

- 1.5mm x 60° Serrated



**Save
25%**

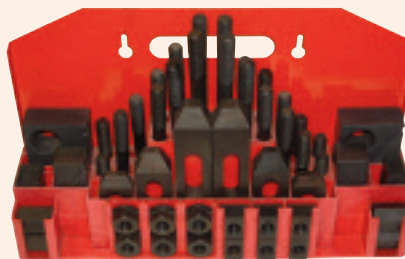
Chuck Size	A	B	C	D	K	Screw Size	Set of 3 Code No.	SALE \$
6"	70	38	25	12	20	M10	656-050	40.88
8"	90	50	38	14	25	M12	656-055	55.58
10"	120	50	38	16	30	M12	656-060	64.35
12"	120	50	38	18	30	M14	656-065	101.03
15"	165	62	62	22	43	M20	656-070	263.10



5/8" TABLE SLOT MACHINIST CLAMPING KIT

SALE \$116.18

**Save
25%**



Each set contains

- 24 1/2-13 Studs 4 each 3, 4, 5, 6, 7, 8" lengths
- 6 T-slot nuts
- 6 Flange nuts
- 4 Coupling nuts
- 6 1" Thick Step blocks
- 6 Serrated end clamps
- 1 T-slot cleaner
- 1 Metal holder

Code No. 333-550
Reg List \$154.90



HEAVY DUTY FREE STYLE VISES

**Save
20%**

- Free style clamping
- Heavy duty



Model	Height (mm)	Width (mm)	Length (mm)	Weight (2pcs) (kg)	Code No.	SALE \$
SV-62	59.5-80.5	64	139	5.8	326-465	323.20
SV-85	86-110	86.5	192	11	326-470	515.12
SV-125	84-117	127	218	21	326-475	717.20



13PC BI-METAL HOLE SAW SET (JOURNEYMAN)

- 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"
- HSS
- Comes with 2 arbors, 1 pilot drill and 1 adapter

**Save
25%**



Description	Code No.	SALE \$
Journeyman Hole Saw Set	505-020	78.60



7PC H.D. PIN PUNCH SET

- Single piece construction with hexagonal shank. The punches have ground working ends, with the body in premium powder coated finish.

* extra 5/32 & 1/4 c/w larger stock

**Save
35%**



Description	Code No.	SALE \$
7pc set 5/64"-3/8"	606-645	33.02



HEAVY DUTY CENTRE PUNCH SET

- Single piece construction with hexagonal shank, these are one of the strongest and most durable of Center Punches. The punches have ground working ends, with the body in premium powder coated finish.

**Save
35%**



Description	Code No.	SALE \$
5pc set 5/64-3/8	606-640	24.44



8PC CENTRE PUNCH SET

One piece construction with round striking head. The knurling is clean and well cut to provide a positive finger grip. This range of punches has a black oxide finish.

- 1/16" - 7/32"

**Save
35%**



Description	Code No.	SALE \$
Centre Punch Set	606-635	31.66



H.D. EXTRA LONG VERNIER CALIPER

- Satin chrome finish
- Adjustable vernier plates
- Longer jaws permit greater accessibility
- Accuracy meets US Federal specifications
- Easy to read, clear, crisp black engraved graduations
- Made of hardened stainless steel throughout, ground and lapped for accuracy

**Save
30%**



Range	Graduation	Jaw Depth	Code No.	SALE \$
0-18"/450mm	.001"/0.02mm	3-1/2"	200-590	114.17



WATER-PROOF HALOGEN LAMPS

Features:

- Water-proof lighting head with reinforced glass resists large temperature fluctuations of cutting oil.
 - 110 voltage
- 400 Series - Standard Arms

**Save
25%**



Model No.	Arm Length (mm)	Base Width (mm)	Weight (kg)	Code No.	SALE \$
VHL-400L	400 x 400	79	3.8	326-335	164.18
VHL-400M	220 x 220	79	3.5	326-340	164.18
VHL-400S	-	60	2.8	326-345	128.10



81PC GAUGE BLOCK SET GRADE B

- Each set is supplied with a certificate guaranteeing that each block is manufactured to meet or exceed federal spec GGG-G-15C, and is within the grade B tolerance ($\pm .000050$)
- This certificate does not show the individual deviation of each block
- Each set is provided in a fitted wooden case



Set	Blocks Included	Code No.	SALE \$
81pc	9--.1001-.1009 in .0001 steps, 49--.101-.149 in .001 steps, 19--.050-.950 in .050 steps, 4--1.000-4.000 in 1.000 steps	200-715	169.92



WIGGLER SET

- Versatile Center & Edge Finder with 4 interchangeable attachments which snap conveniently into the chuck.
- Ball swivel joint permits adjustments to an angular position or true concentricity.
- Set includes offset indicator holder, ball contact attachment- 0.250" dia, disc contact attachment-0.100" dia. and needle point attachment



Description	Code No.	SALE \$
Wiggler Set	7607290	25.27



0-12" OUTSIDE MIC SET

- Ratchet and lock nut
- Complete with standards (2" and up)
- Carbide faces
- Fitted wood case

**Save
20%**



Range	Graduation	Code No.	SALE \$
0-12"	.0001"	200-098	688.00



28PC TRANSFER PUNCH SET

- 28 Punches in Metal Indexed Stand
- Heat treated tempered steel
- Consists of one each of punch sizes 3/32 thru 1/2 x 64ths plus 17/32

**Save
20%**



Description	Code No.	SALE \$
Transfer Punch Set	200-750	21.04



DUST-PROOF HALOGEN LAMPS WITH MAGNETIC BASE

Features:

- Dust Proof with Magnetic Base
 - 110 voltage
- 600FT Series - Segment Adjustable Arm
700FT Series - Flexible Arm



**Save
25%**

Model No.	Arm Length (mm)	Base Width (mm)	Weight (kgs.)	Code No.	SALE \$
VHL-600FT	380	88	1.7	326-365	100.43
VHL-700FT	400	88	1.7	326-370	100.43



RIGID STEEL RULES SATIN CHROME

**Save
30%**

- Made of hardened and tempered steel.
- Durable finish for rust and wear durability.
- Satin Chrome: Precisely etched, then black filled.
- Meets federal accuracy specifications.



Range	Type	Width	Thickness	Code No.	SALE \$
6"	4R	3/4"	0.04"	7606101	7.00
6"	5R	3/4"	0.04"	7606102	7.00
6"	16R	3/4"	0.04"	7606103	7.00
6"/150mm	E/M	3/4"	0.04"	7606104	7.00
12"	4R	1"	0.04"	7606111	12.32
12"	5R	1"	0.04"	7606112	12.32
12"	16R	1"	0.04"	7606113	12.32
12"/300mm	E/M	1"	0.04"	7606114	12.32
18"	4R	1-1/8"	0.04"	7606121	16.45
18"	5R	1-1/8"	0.04"	7606122	16.45
18"	16R	1-1/8"	0.04"	7606123	16.45
18"/450mm	E/M	1-1/8"	0.04"	7606124	16.45
24"	4R	1-1/8"	0.04"	7606131	29.61
24"	5R	1-1/8"	0.04"	7606132	29.61
24"	16R	1-1/8"	0.04"	7606133	29.61
24"/600mm	E/M	1-1/8"	0.04"	7606134	29.61



STEEL SQUARES

**Save
30%**

- Made of precision ground hardened stainless steel
- Accuracy according to DIN875



Inch Size	Metric Size	Squareness	Code No.	SALE \$
6" x 4"	150 x 100mm	00	7639240	51.66
8" x 5"	200 x 130mm	00	7639250	67.13



DIGITAL PROTRACTORS LEVEL TYPE

**Save
30%**

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



Range	Resolution	Accuracy	Code No.	SALE \$
360°	0.1°	±0.1°	7490160	99.82
360°	0.1°	±0.1°	7490162*	106.47

*magnetic base



KORLOY

3MM SAW-MAN PART-OFF KITS

\$173.95 ea.

Reg. Value: \$488.10

1" Blade - Code # 2111558

- 20- SP300 NC3030 inserts reg. \$14.40 ea.
- 1- SPB326-S 1" blade reg. \$173.60
- 1- SW15S wrench reg. \$26.50



1-1/4" Blade - Code # 2111551

- 20- SP300 NC3030 inserts reg. \$14.40 ea.
- 1- SPB332-S 1-1/4" blade reg. \$173.60
- 1- SW15S wrench reg. \$26.50



Premium Drill Sharpening Machines

Model DM213

Code No. 326-130

List Price \$1,962.00

Sale Price \$1,471.50

Drill Diameter: Ø2mm - Ø13mm
Point Angle: 85° ~ 140°
Power Supply: AC110 / AC220 50/60HZ
Motor: 90W
R.P.M: 6000RPM
Weight: 10 kg



DM213

FAST DRILL RE-SHARPENING MACHINE

Patented Features

- Double-bearing grinding unit (reduces wear).
- Drill tightened design with bearing device.
- Adjustable trimming angle.

Standard Accessories

- ER20 Collets, 2.5mm-13mm (12pcs).
- CBN Dia. wheel #200x1pc (for HSS drill).
- 3mm and 4mm Hexagon (Hex.) wrench x 1 pc each.

Model DM1226

Code No. 326-134

List Price \$4,464.60

Sale Price \$3,348.45

Drill Diameter: Ø8mm - Ø30mm
Point Angle: 85° ~ 140°
Power Supply: AC110 / AC220 50/60HZ
Motor: 450W
R.P.M: 4000RPM
Weight: 25 kg



DM1226

FAST DRILL RE-SHARPENING MACHINE

Patented Features

- Double-bearing grinding unit (reduces wear).
- Drill tightened design with bearing device.
- Adjustable trimming angle.

Standard Accessories

- ER40 Collets, 12mm-26mm (15pcs).
- CBN Dia. wheel #200x1pc (for HSS drill).
- 3mm and 4mm Hexagon (Hex.) wrench x 1 pc each.



TR100 EDM BROKEN TAP REMOVER

The Quick Solution To A Broken Tap
Fast, low cost, high performance

NEW PRODUCT!



- **Light, small, portable, compact design**
- **High speed & high efficiency**
- **Simple operation allows easy removal of broken tap**
- **Dielectric:**
Uses ordinary tap water as the dielectric medium
- **Electrode:**
Using any brass bar as electrode
- **CSA Approved**

- **Flexibility**
Machining easily even on a large workpiece
- **No damage**
Remove taps without damaging the threads
- **Complete functions:**
Auto feed, depth setting, selectable arc timer, auto retract, workhead swivel alarm messages: depth arrival, arcing, over-temp.
- **More applications:**
Starting holes for Wire Cut EDM, cutting Tungsten Carbide or any hardened steel

Code No.: 901-176

\$5,128.00



DRILL PRESS VISES

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



Jaw Width	Opening	Jaw Depth	Weight	Code No.	SALE \$
3"	3"	1-1/8"	6lb	370-206	39.61
4"	4"	1-3/8"	10lb	370-211	51.66
5"	5"	1-1/2"	17.5lb	370-216	91.13
6"	6"	1-1/2"	23lb	370-221	106.06



BALL BEARING DRILL CHUCKS

- Bodies and jaws hardened and ground
- One piece gear/scroll ring eliminates loss of clamping torque
- Dependable and accurate performance
- Ease of operation
- Extended life



Rohm Id. Nr.	Capacity (In.)	Mount	Chuck Key	O.D. (In.)	Opened Length	Closed Length	Code No.	SALE \$
215000	1/32-1/2	JT3	S10	2.24	3.11"	3.86"	390-245	159.98
215001	1/32-5/8	JT3	S10	2.44	3.15"	3.94"	390-250	185.33
215002	3/16-3/4	JT4	S13	2.80	3.82"	4.65"	390-255	270.60
215003	3/16-1-1/32	JT5	S13	3.11	4.72"	5.79"	390-260	763.64



REVOLVING KNURLING TOOL HOLDER

These tools are fitted with four pairs of knurls; any of which can be instantly brought to bear on the workpiece. Furnished with standard face diamond pattern knurls in fine and coarse pitch.



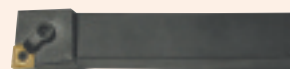
Save 30%

Holder Size (in.)	Dia. (in.)	Knurl Face Size (in.)	Hole (in.)	Code No.	SALE \$
3/4 x 1-1/4 x 7	3/4	3/8	1/4	474-200	231.14



INDEXABLE TURNING KITS

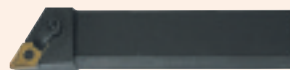
Save 10%



MCLNR/L

Application	Material	Kit Contents	Kit Code	SALE \$
Medium	Steel	1 pc MCLNR 16-4D 10 pcs CNMG 432 MM PT20C	149-801	116.82
Medium	Steel	1 pc MCLNL 16-4D 10 pcs CNMG 432 MM PT20C	149-805	116.82
Roughing	Steel	1 pc MCLNR 16-4D 10 pcs CNMG 432 R1 PT20C	149-802	116.82
Medium	Cast Iron	1 pc MCLNR 16-4D 10 pcs CNMA 432 KT10C	149-804	116.82

MDJNR/L



Application	Material	Kit Contents	Kit Code	SALE \$
Medium/Finishing	Steel	1 pc MDJNR 16-4D 10 pcs DNMG 432 M PT20C	149-813	130.23
Medium	Steel	1 pc MDJNR 16-4D 10 pcs DNMG 432 MM PT20C	149-808	130.23
Medium	Steel	1 pc MDJNL 16-4D 10 pcs DNMG 432 MM PT20C	149-812	130.23
Roughing	Steel	1 pc MDJNR 16-4D 10 pcs DNMG 432 R1 PT10C	149-809	130.23

MTJNR/L



Application	Material	Kit Contents	Kit Code	SALE \$
Medium/Finishing	Steel	1 pc MTJNR 16-4D 10 pcs TNMG 432 M PT20C	149-823	171.54
Medium	Steel	1 pc MTJNR 16-4D 10 pcs TNMG 432 MM PT20C	149-817	171.54
Medium	Steel	1 pc MTJNR 12-3D 10 pcs TNMG 322 G PT30C	149-818	140.04
Medium	Steel	1 pc MTJNL 12-3B 10 pcs TNMG 322 G PT30C	149-819	143.10

MWLNR/L



Application	Material	Kit Contents	Kit Code	SALE \$
Medium Finish	Steel	1 pc MWLNR 16-4D 10 pcs WNMG 432 M PT20C	149-832	120.24
Medium	Steel	1 pc MWLNR 16-4D 10 pcs WNMG 432 MM PT20C	149-825	120.24
Medium	Steel	1 pc MWLNL 16-4D 10 pcs WNMG 432 MM PT20C	149-830	120.24
Medium	Steel	1 pc MWLNR 12-4D 10 pcs WNMG 432 MM PT20C	149-826	121.41
Roughing	Cast Iron	1 pc MWLNR 16-4D 10 pcs WNMA 432 KT10C	149-829	120.24

Pricing valid from October 1 to December 31, 2014 or while quantities last.



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