



INDUSTRIAL INC.

Toronto | Montréal | Edmonton

www.kar.ca

WINTER WARMUP

**SAVE NOW
ON VISES &
ACCESSORIES**

AUTOWELL®

**PRECISION MILLING
MACHINE VISES**

FCD-60 Ductile Iron



6 x 7.5 Inch | Code 277064

558.61



6 x 8.9 Inch | Code 277065

606.85



8 x 10 Inch | Code 277066

1249.43

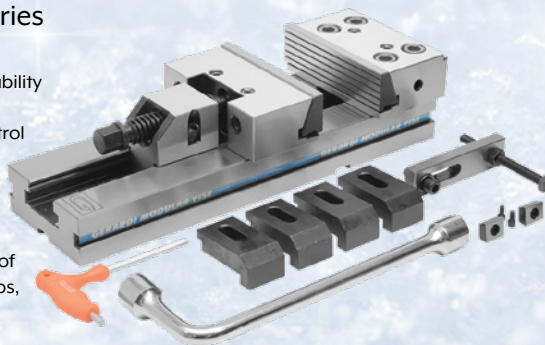
REPLACEMENT PARTS & ACCESSORIES ALSO AVAILABLE AT KAR: <https://tinyurl.com/v6c32ck3>



MODULAR SYSTEM VISES

Standard Series

- Modular design for easy interchangeability
- Hardened and ground steel
- Manufactured under rigid quality control
- Fixed vise with guided movable jaw
- High alloyed quality resistance steel, case hardened (HRC 60 ±2)
- Unlimited clamping range
- Supplied with one workstop, one pair of positioning key nuts, two pair of clamps, one box wrench and one "T" wrench



4 x 3.9 Inch
Code 278000

1176.93

5 x 5.9 Inch
Code 278002

1295.71

6 x 7.8 Inch
Code 278004

1412.94

6 x 11.1 Inch
Code 278006

1648.93

ALL VISE DIMENSIONS AT KAR.CA: <https://tinyurl.com/tu8hapjp>

POPULAR ACCESSORY

DEAD BLOW HAMMERS

Polyurethane
Coated
Thermoplastic
Rubber | 1 piece
Steel construction
with steel shot



**NO
EXPOSED
METAL**

Hammer hardness 90A-95A

18 oz.	284560	23.33
24 oz.	284561	26.15
33 oz.	284562	32.61
41 oz.	284563	37.30
49 oz.	284564	44.09

**NON-SLIP
SAFE GRIP
HANDLE**

YOUR AUTHORIZED KAR DISTRIBUTOR:



9651-49 Avenue, Edmonton AB T6E 5Z5

Toll Free: 1-800-661-6496

Tel: 780-437-4220 | Fax: 780-438-5873

WWW.UNITEDTOOLSUPPLY.COM

MAKING IT EASY TO DO BUSINESS WITH SINCE 1954... CONTACT YOUR LOCAL KAR DISTRIBUTOR TODAY!

WINTER WARMUP

SAVE NOW

ON ALL IN-STOCK * TOOLING COMPONENTS & CLAMPING
THREAD INSERTS | SPRING & BALL PLUNGERS | ACCESSORIES

ON SALE



Northwestern

* by Northwestern



TOOLING COMPONENTS & CLAMPING

CLAMPING SETS	Starting at	416. ⁴⁴
CLAMPING STUDS	Starting at	2. ⁶⁰
STEP BLOCKS	Starting at	13. ⁹⁰
COUPLING NUTS	Starting at	3. ⁴¹
FLANGED NUTS	Starting at	3. ⁴⁰
T-SLOT NUTS	Starting at	4. ⁴³
T-SLOT BOLTS	Starting at	6. ⁴²
TOE CLAMPS	Starting at	26. ²²
PLAIN CLAMPS	Starting at	15. ⁸⁴
STEP CLAMPS	Starting at	17. ⁶¹

THREAD INSERTS

RE-NU THREAD REPAIR INSERTS	Starting at	2. ⁸⁷
RE-NU THREAD REPAIR KITS	Starting at	152. ⁵²

SPRING & BALL PLUNGERS

SPRING PLUNGERS	Starting at	7. ⁸⁰
BALL PLUNGERS	Starting at	7. ²⁸
PLUNGER WRENCHES	Starting at	18. ³⁴

ALL NORTHWESTERN PRODUCTS AT **KAR** | <https://kar.ca/catalogsearch/result/index/?manufacturer=1768&q=Northwestern>

MACHINE LAMPS

Universal Waterproof | Halogen



- 50W halogen lamp
- Waterproof
- 120V connection (6ft cord)
- Handle on head allows easy positioning
- 24V

UNIVERSAL WITH TRANSFORMER (in base)	
JW 55RTS Short	Code 302961 121.⁶⁴
UNIVERSAL WITHOUT TRANSFORMER (for connection to machines)	
JW 55RS Short	Code 302942 85.⁰⁴

- 20W halogen lamp
- Vibration resistant
- 120V connection (6 ft. cord)
- Articulating arm

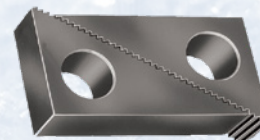
HALOGEN WITH TRANSFORMER (in base)	
JH 20RTS Short	Code 302962 77.⁴⁹
JH 20RTM 18 (9+9)	Code 302963 76.⁴⁵
HALOGEN WITHOUT TRANSFORMER (for connection to machines)	
JH 20RS Short	Code 302945 60.²²
JH 20RM 18 (9+9)	Code 302946 70.²⁸
JH 20RL 32 (16+16)	Code 302947 73.⁶¹
REPLACEMENT BULBS	
24V Bulb	Code 302954 11.⁹⁴
12V Bulb	Code 302952 13.⁶⁹

BLOWOUT PRICES

While Quantities Last

STEP BLOCKS

Matched Pairs



3/4" - 1-1/2" x 1"	Code 400101	9.¹⁴
1-1/8" - 2-1/2" x 1	Code 400102	28.⁷²
2-1/2" - 6" x 1"	Code 400103	33.²⁴
3-1/2" - 9" x 1-1/2"	Code 400116	113.²⁰
1-1/2" - 3-3/4" x 2"	Code 400127	17.²⁶
2-1/2" - 6" x 2"	Code 400128	28.²⁸
3-1/2" - 9" x 2"	Code 400129	53.⁴⁹

DIMENSIONS: Height Adjustability x Stud Width

SAVINGS START NOW

BORING HEAD SETS

Boring Bars & Wrenches
Supplied in Fitted
Storage Cases

3/4" Straight Shank (Plastic Storage Case)
0-4" Capacity | 1/2" Bore Size

Code 302425 **496.³⁴**

R8 Shank (Wooden Storage Case)
0-6" Capacity | 3/4" Bore Size

Code 302430 **797.⁵⁵**



<https://kar.ca/catalogsearch/result?q=302425+302430>

ER COLLET SETS

Inch & Metric Sets
Supplied in Fitted
Storage Case



Collet Size	INCH			METRIC		
	Pieces /set	Code	Price	Pieces /set	Code	Price
ER16	7	826617	119.¹⁸	8	302685	160.¹²
ER20	10	826618	171.⁸⁴	11	302686	228.⁷⁶
ER25	12	826619	223.⁹⁶	15	302689	341.⁰¹
ER32	11	826620	215.²⁸	18	302687	430.³⁶
ER40	15	826621	386.⁹³	23	302688	675.⁶⁷

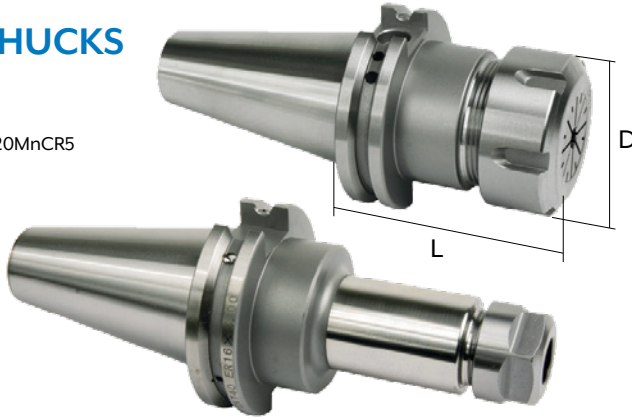


ER COLLET CHUCKS

CAT40 & CAT50

- Constructed of high quality alloy steel - SAE8620/20MnCR5
- Taper to taper runout: <0.0002"
- Coolant through spindle
- CAT40 balanced G2.5@20,000 RPM
- CAT50 balanced G6.3@15,000 RPM
- Balanced tools supplied with QA certificates
- Supplied with depth set screws
- Supplied with high torque hard coat power nuts
- Taper shank ground to AT3 accuracy or better
- DIN AD+B flange coolant

NOTE: Collet wrench sold separately



**NEW
LOWER PRICES**

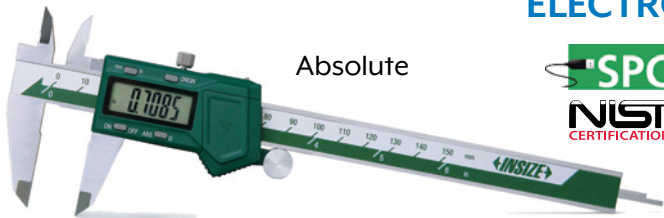
ASK YOUR DISTRIBUTOR
HOW TO SAVE WITH COMPLETE
TOOLING PACKAGES FROM **KAR**

Collet Series	Collet Capacity Min-Max (Inch)	Nut	D (Inch)	L (Inch)	CAT40 ER COLLET CHUCK			CAT50 ER COLLET CHUCK		
					Weight (lbs)	Code	Price	Weight (lbs)	Code	Price
ER11	0.02-0.28	HEX	0.79	2.50	2.0	300681	89. ⁹⁹	—	—	—
			0.79	4.00	2.2	300682	94. ⁹⁹	—	—	—
			0.79	6.00	2.4	300683	104. ⁵⁰	—	—	—
ER16	0.02-0.41		1.10	2.50	2.4	310965	89. ⁹⁹	—	—	—
			1.10	4.00	3.2	310966	94. ⁹⁹	7.3	312054	134. ⁹⁹
			1.10	5.00	3.2	310967	104. ⁵⁰	—	—	—
			1.10	6.00	—	—	—	7.9	312055	154. ⁹⁹
ER20	0.02-0.50		1.34	2.50	2.4	310968	89. ⁹⁹	—	—	—
			1.34	4.00	3.5	310969	94. ⁹⁹	7.4	312056	134. ⁹⁹
			1.34	6.00	3.7	310970	104. ⁵⁰	8.1	312057	154. ⁹⁹
ER25	0.04-0.63		1.65	2.50	2.6	310971	89. ⁹⁹	—	—	—
			1.65	4.00	4.5	310972	94. ⁹⁹	7.8	312058	134. ⁹⁹
			1.65	6.00	4.4	310973	104. ⁵⁰	8.8	312059	154. ⁹⁹
ER32	0.04-0.81	ROUND	1.97	2.75	2.6	310974	89. ⁹⁹	—	—	—
			1.97	4.00	6.8	310975	94. ⁹⁹	8.1	312060	134. ⁹⁹
			1.97	6.00	4.4	310976	104. ⁵⁰	9.5	312061	154. ⁹⁹
ER40	0.12-1.00		2.48	3.00	3.0	310977	89. ⁹⁹	—	—	—
			2.48	4.00	—	—	—	8.9	312062	134. ⁹⁹
			2.48	6.00	3.0	310978	104. ⁵⁰	11.8	312063	154. ⁹⁹

WINTER WARMUP

←INSIZE→ TOOLS THAT MEASURE UP

ELECTRONIC CALIPERS



Absolute



OPTIONAL ACCESSORY: SPC cable

- Resolution: 0.0005"/0.01mm
- Buttons: Inch/mm, ABS/REL, on/off, origin set
- Battery CR2032
- Auto power off
- Data output
- Stainless steel
- Supplied in fitted storage case

0-6"/0-150mm
Code 285127

103.41

0-8"/0-200mm
Code 285128

142.89

0-12"/0-300mm
Code 285129

205.94

Long Range | 24 & 40 Inch/600 & 1000mm



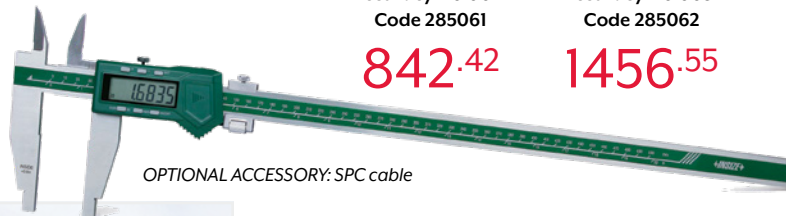
- Resolution: 0.0005"/0.01mm
- Button function: on/off, zero, inch/mm, ABS, data preset
- Battery CR2032
- Stainless steel
- Data output
- Supplied in fitted storage case

0-24"/0-600mm
Accuracy: $\pm 0.002"$
Code 285061

842.42

0-40"/0-1000mm
Accuracy: $\pm 0.003"$
Code 285062

1456.55



OPTIONAL ACCESSORY: SPC cable



SAVE NOW

on these featured essentials for the Red Seal Machinist's toolbox!



ELECTRONIC CALIPERS

Coolant Proof



- Resolution: 0.0005"/0.01mm
- Accuracy: $\pm 0.0015"$
- Coolant proof, IP67 Ingress protection level
- Button functions: zero, on/off, inch/mm, ABS/REL, hold
- Battery CR2032
- Stainless steel
- Supplied in fitted storage case

0-6"
0-150mm
Code 816018
171.39

0-8"
0-200mm
Code 280014
295.42

0-12"
0-300mm
Code 280015
342.56



COMBINATION SQUARE

12 Inch Rule & Square Head



- Used as square, level, scribe, marking gage, and 12" steel rule
- Square Head: to set the blade at 90° or 45° to an edge of a workpiece - Accuracy: $\pm 8\text{min.}$ for 90° square and $\pm 10\text{min.}$ for 45° square
- 12" Steel Rule: 1/8" and 1/16" graduations on one side, 1/32" and 1/64" on reverse side
- Supplied in fitted storage case

2-Piece SET
Rule & Square
Code 877154
48.41

RULES

- 4R graduation
- 1/64" and 1/32" on front, 1/16" and 1/8" on back
- Rigid with non-glare surface



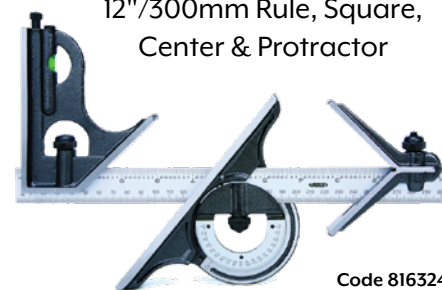
6 Inch | $\pm 0.003"$ accuracy.....Code 877203 1.67

12 Inch | $\pm 0.004"$ accuracy.....Code 877201 2.95

24 Inch | $\pm 0.006"$ accuracyCode 877202 5.90

COMBINATION SQUARE

12"/300mm Rule, Square, Center & Protractor



Code 816324

OPTIONAL ACCESSORY:
Rigid Rule 283606 (7113-300)

154.59

- Used as square, level, marking gage, scribe, center gage, protractor and 12" steel rule
- Center Head: to locate center of round workpieces - Accuracy: $\pm 0.006"$
- Protractor Head: to set the blade at desired angle to an edge of a workpiece, and may be used to measure angles - Range: 0-180°; Accuracy: $\pm 7\text{min.}$
- Square Head: to set the blade at 90° or 45° to an edge of a workpiece - Accuracy: $\pm 8\text{min.}$ for 90° square and $\pm 10\text{min.}$ for 45° square
- 1/32" & 0.5mm graduations side 1, 1/64" & 1mm graduations side 2
- Supplied in fitted storage case

SAVINGS START NOW

INSIZE EXCLUSIVELY AVAILABLE FROM KAR IN CANADA

ELECTRONIC INDICATORS | Standard Model

- Meets ASME B89.1.10M-2001 standards
- Resolution: 0.0005"/0.01mm
- Accuracy: ± 0.0015
- Hysteresis: 0.0005"
- Button function: on/off, inch/mm, zero
- Auto power off
- Battery CR2032
- Data output
- Lug back
- Contact point thread #4-48UNF
- Supplied in fitted storage case



Range 0.5"/12.7mmCode 877010 **138.86**
 Range 1"/25.4mmCode 816393 **145.24**
 Range 2"/50.8mmCode 816395 **357.98**



PORTABLE LEEB HARDNESS TESTER

- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Memory of 99 measurement values for browsing
- Set measurement times (1-9) to have average value
- Connects to printer via bluetooth (optional)
- Automatic power off
- ASTM A956 standards
- Supplied with manufacturer inspection certificate



ISH-PHB
Code 816432
1510.74

INCLUDES ONE OF EACH: Hardness tester, Impact device D, Hardness test block D, Small support ring, Cleaning brush

FIND COMPLETE DETAILS AT WWW.KAR.CA

https://kar.ca/pdf/catalog_page/Kar_Catalog_Page_INSIZE_ISH-PHB.pdf

ROUGHNESS TESTER



Combine probe and tester



ISR-C300
Code 877234
2827.32

- Operated with mobile phone (Android OS only) via Bluetooth, or PC via USB cable (cables and software included)
- Output data to MS Excel by connecting computer via Bluetooth or USB cable
- Connects to printer via bluetooth (optional)
- Tests 22 various roughness parameters
- Meets ISO, DIN, ANSI and JIS standards
- Displays roughness values, profile and curve on built-in screen
- Memory stores maximum 100 data measurement results
- Built-in rechargeable lithium battery with a working time of over 50 hours between charges
- Auto power off

INCLUDES ONE OF EACH: Roughness tester, Standard probe, Calibration block and support, Connection cable (long and short), Magnetic stand adapter, Adjustable stand, Touch pen, USB cable and software, AC/DC power adapter

FIND COMPLETE DETAILS AT WWW.KAR.CA

https://kar.ca/pdf/catalog_page/Kar_Catalog_Page_INSIZE_ISR-C300.pdf

WIRELESS DATA TRANSFER SYSTEM

RECEIVERS

Multi-channel

- Connect up to 8 transmitters, each with a unique identification code
- Text format virtual com port, converted to keyboard format with supplied software (data can be transmitted to Excel, Word, etc. – any software that receives keyboard signal)
- Using Excel directional input software, the measurement data of different measuring tools can be transmitted to the specified area in the sheet



7315-2
Code 877266

522.60

Single Channel Receiver

- Connect 1 transmitter only – change as required
- Not required to install drivers/software
- Keyboard format

7315-3
Code 877267

215.56

TRANSMITTERS

135.11/ea.



- for Electronic Calipers / Depth and Height Gages (series 1156)

7315-20 | Code 877268

- for Electronic Outside and 3-point Internal Micrometers

7315-30 | Code 877269

- for Electronic Indicators

7315-40M | Code 877270

- for Electronic Thickness / Internal-External Gages

7315-50M | Code 877271

COMPLETE DETAILS AT WWW.KAR.CA

<https://tinyurl.com/3df7vu>

WINTER WARMUP

INDEXABLE COMBINED DRILL & COUNTERSINK SETS

with Carbide Inserts



SETS INCLUDE:

- 1 Holder
- 4 Carbide Inserts
- #2, #3, #4, #5 -
- 1 Torx® 9 Key

159.⁰²/ea. 5/8" x 5" Holder & 4 Inserts | Code 530671
1/2" x 4" Holder & 4 Inserts | Code 530672

- Secure insert pocket allows for quick and repeatable indexes
- Easy change over from one size to another - same body holds #2, #3, #4 and #5 inserts
- Carbide inserts for extended tool life
- One grade handles all applications
- Multiple bodies available for the same indexable insert (5/16", 3/8", 1/2", 5/8", 3/4", 1", and 1-1/4")
- Convenient, low-cost and economical

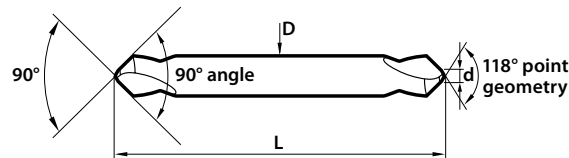


CNC SPOTTING DRILLS

HSS-E Cobalt - Uncoated & RED-X Coated



- 90° angle
- 118° point geometry for improved penetration rates while reinforcing the point
- Double ended for cost savings
- Available in 4-Piece sets or sold individually
- RED-X coating provides increased speeds and feeds and allows machining up to 55 HRC



Individual Spotting Drills

4-Piece Sets

(includes 1 of each individual size)

HSS-E Cobalt
Code 540090

RED-X Coated
Code 540095

65.⁹⁰

93.⁹⁷

D (Inch)	d (Inch)	L (Inch)	90° Series 019 HSS-E COBALT		90° Series 0919 RED-X COATED	
			Code	Price	Code	Price
3/16	1/16	2	540091	10.⁶⁴	540096	19.⁸²
1/4	3/32	2	540092	11.³⁰	540097	15.⁹⁸
3/8	9/64	3	540093	17.⁶⁸	540098	28.⁶⁹
1/2	3/16	4	540094	27.³⁷	540099	52.⁸²



BROACH SETS

Standard & Heavy Duty



TiN coated sets available on request

- Supplied in storage boxes complete with precision broaches, slotted bushings, and necessary shims
- Collared bushings are recommended and supplied unless plain bushings are specified on your order

No. 00 PRECISION SET	605500	456.³⁵
No. 10 STANDARD SET	605501	796.⁸¹
No. 10A STANDARD SET	605502	796.⁸¹
No. 10-10A COMBINATION SET	605503	1023.¹⁵
No. 20 COMBINATION SET	605504	1179.⁰⁵
No. 40A SET	605505	1492.⁹⁴
No. 40 SET	605506	1492.⁹⁴
No. 40-1/2A HEAVY DUTY SET	605507	1538.⁶⁰

SET DETAILS AT WWW.KAR.CA

<https://tinyurl.com/p9ubf8mx>



COUNTERSINK SETS

High Speed Steel TiN Coated | Inch | 60°, 82° & 90°

Single Flute 6-Piece Sets

60° TiN | Code 601227
82° TiN | Code 601228
90° TiN | Code 601229

183.⁴²/ea.



With Hole 5-Piece Sets

60° TiN | Code 601291
82° TiN | Code 601292
90° TiN | Code 601293

260.⁵²/ea.



COMBINED DRILL & COUNTERSINKS

High Speed Steel | 82° & 90° Plain Type



Size	Ø Body (Inch)	Ø Point (Inch)	Point Length (Inch)	Overall Length (Inch)	82° Series 154 HSS M2		90° Series 155 HSS M2	
					Code	Price	Code	Price
1	1/8	3/64	1/16	1-1/4	540511	12.⁶⁸	540521	12.⁶⁸
2	3/16	5/64	7/64	1-7/8	540512	13.⁴¹	540522	13.⁴¹
3	1/4	7/64	9/64	2	540513	13.⁹⁶	540523	13.⁹⁶
4	5/16	1/8	5/32	2-1/8	540514	14.⁶⁰	540524	14.⁶⁰
5	7/16	3/16	1/4	2-3/4	540515	22.⁴²	540525	22.⁴²
6	1/2	7/32	19/64	3	540516	33.⁵⁰	540526	33.⁵⁰
7	5/8	1/4	5/16	3-1/4	540517	48.⁵⁷	540527	48.⁶³
8	3/4	5/16	13/32	3-1/2	540518	75.⁹⁴	540528	75.⁹⁴

SAVINGS START NOW



RED COLOUR BAND TAPS

Spiral Point Plug &
Spiral Flute Bottoming

- For high strength steel, nickel alloys, titanium, tool steel, and stainless steel



Size	OAL (Inch)	SPIRAL POINT PLUG		SPIRAL FLUTE BOTTOMING	
		Code	Price	Code	Price
4-40	1-7/8	915258	20. ²²	915220	26. ³⁰
5-40	1-15/16	915260	18. ⁵⁶	-	-
6-32	2	915262	16. ⁹⁰	915222	23. ⁸⁸
8-32	2-1/8	915264	16. ⁹⁰	915224	23. ⁵⁹
10-24	2-3/8	915266	16. ⁹⁰	915226	23. ⁵⁹
10-32	2-3/8	915268	16. ⁹⁰	915228	23. ⁵⁹
1/4-20	2-1/2	915270	20. ⁰⁶	915230	26. ³⁰
1/4-28	2-1/2	915272	20. ⁰⁶	915232	26. ³⁰
5/16-18	2-23/32	915274	22. ²⁸	915234	28. ⁸⁸
5/16-24	2-23/32	915276	22. ²⁸	915236	28. ⁸⁸
3/8-16	2-15/16	915278	25. ⁵²	915238	33. ³⁰
3/8-24	2-15/16	915280	25. ⁵²	915240	33. ³⁰
7/16-14	3-5/32	915282	36. ³³	915242	46. ⁷⁴
7/16-20	3-5/32	915284	36. ³³	915244	46. ⁷⁴
1/2-13	3-3/8	915286	39. ⁹⁶	915246	51. ⁴¹
1/2-20	3-3/8	915288	39. ⁹⁶	915248	51. ⁴¹
5/8-11	3-13/16	915290	92. ⁰⁷	915250	116. ³⁷
5/8-18	3-13/16	915292	92. ⁰⁷	915252	116. ³⁷
3/4-10	4-1/4	915294	118. ⁹⁶	915254	149. ¹⁹
3/4-16	4-1/4	915296	118. ⁹⁶	915256	149. ¹⁹

COMPLETE DETAILS AT WWW.KAR.CA

<https://tinyurl.com/keyy7u3e>

JOBBER LENGTH DRILLS

Solid Carbide & High Speed Steel Gold-P Coated

Solid Carbide | 118° Point

- For drilling steels in general – cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, and abrasive plastics

HSS Gold-P Coated | *135° Split Point

- Straight shank
- Flute Geometry: right hand spiral with wider flutes
- Point Angle: 135° split point on sizes 0.059" diameter and over
- Surface treatment: bright body with TiN coating on working part
- Application: drilling in steel, cast steel (alloyed and non-alloyed), grey cast iron, graphite, and malleable cast iron

* HSS GOLD-P drills 135° split point on sizes 0.059" diameter and over



Size (Inch)	Decimal (Inch)	SOLID CARBIDE				HSS GOLD-P COATED			
		118° POINT				* 135° SPLIT POINT			
		LOC (Inch)	OAL (Inch)	Code	Price	LOC (Inch)	OAL (Inch)	Code	Price
1/32	0.0312	5/16	1-1/4	952088	19. ⁷⁸	-	-	-	-
3/64	0.0469	3/4	1-1/2	952090	12. ⁰⁹	3/4	1-3/4	883020	1. ⁷⁷
1/16	0.0625	3/4	1-1/2	952092	12. ¹⁵	7/8	1-7/8	883021	1. ⁶⁴
5/64	0.0781	7/8	1-3/4	952094	12. ⁹⁰	1	2	883022	1. ⁶⁴
3/32	0.0938	1	2	952096	14. ⁶⁰	1-1/4	2-1/4	883023	1. ⁶⁴
7/64	0.1094	1-1/4	2-1/4	952098	15. ⁸⁷	1-1/2	2-5/8	883024	1. ⁶⁴
1/8	0.1250	1-1/4	2-1/4	952100	16. ⁶⁴	1-5/8	2-3/4	883025	1. ⁶⁴
9/64	0.1406	1-3/8	2-1/2	952102	19. ⁵⁰	1-3/4	2-7/8	883026	1. ⁶⁶
5/32	0.1563	1-3/8	2-1/2	952104	20. ⁵⁷	2	3-1/8	883027	1. ⁷⁷
11/64	0.1719	1-5/8	2-3/4	952106	24. ¹¹	2-1/8	3-1/4	883028	1. ⁸⁸
3/16	0.1875	1-5/8	2-3/4	952108	24. ⁴²	2-5/16	3-1/2	883029	2. ⁰⁸
13/64	0.2031	1-3/4	3	952110	29. ³⁵	2-7/16	3-5/8	883030	2. ⁵²
7/32	0.2188	1-3/4	3	952112	30. ¹⁷	2-1/2	3-3/4	883031	2. ⁵⁷
15/64	0.2344	2	3-1/4	952114	35. ⁸⁸	2-5/8	3-7/8	883032	2. ⁸⁷
1/4 (E)	0.2500	2	3-1/4	952116	35. ⁸⁸	2-3/4	4	883033	2. ⁹⁵
17/64	0.2656	2-1/8	3-1/2	952118	37. ⁹³	2-7/8	4-1/8	883034	3. ³⁹
9/32	0.2812	2-1/8	3-1/2	952120	40. ⁶⁴	2-15/16	4-1/4	883035	3. ⁷⁸
19/64	0.2969	2-3/8	3-3/4	952122	45. ⁰⁵	3-1/16	4-3/8	883036	4. ¹⁷
5/16	0.3125	2-3/8	4	952124	47. ⁶²	3-3/16	4-1/2	883037	4. ⁵³
21/64	0.3281	2-1/2	4	952126	51. ⁹⁴	3-5/16	4-5/8	883038	4. ⁹⁶
11/32	0.3438	2-1/2	4-1/4	952128	57. ⁶³	3-7/16	4-3/4	883039	5. ⁴⁹
23/64	0.3594	2-3/4	4-1/4	952130	62. ⁸⁷	3-1/2	4-7/8	883040	6. ¹⁴
3/8	0.3750	2-3/4	4-1/2	952132	68. ²¹	3-5/8	5	883041	6. ²⁷
25/64	0.3906	2-7/8	4-1/2	952134	77. ⁰⁹	3-3/4	5-1/8	883042	7. ¹⁴
13/32	0.4062	2-7/8	4-1/2	952136	85. ⁵³	3-7/8	5-1/4	883043	7. ³³
27/64	0.4219	2-7/8	4-1/2	952138	93. ⁶⁸	3-15/16	5-3/8	883044	7. ⁹¹
7/16	0.4375	2-7/8	4-1/2	952140	101. ³⁸	4-1/16	5-1/2	883045	8. ⁵⁸
29/64	0.4531	3	4-3/4	952142	109. ⁷⁹	4-3/16	5-5/8	883046	9. ⁴⁵
15/32	0.4688	3	4-3/4	952144	118. ¹⁹	4-5/16	5-3/4	883047	10. ⁰⁰
31/64	0.4844	3	4-3/4	952146	121. ⁶⁷	4-3/8	5-7/8	883048	10. ⁶⁵
1/2	0.5000	3	4-3/4	952148	126. ¹⁵	4-1/2	6	883049	11. ¹⁰



SELF-STARTING STEP DRILLS

High Speed Steel



- 13 Steps | Ø range 1/8 to 1/2"Code 754700 **47.⁵⁰**
- 6 Steps | Ø range 3/16 to 1/2"Code 754701 **39.²⁵**
- 9 Steps | Ø range 1/4 to 3/4"Code 754702 **61.⁸¹**
- 12 Steps | Ø range 3/16 to 7/8"Code 754703 **82.⁸⁵**

WINTER WARMUP

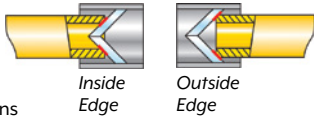
HAND DEBURRING

SHAVIV

Plum-Burrs

Heavy Duty and Standard Pipe Cleaners

- Perfect tool to deburr tubing on both inner and outer edges
- Excellent for plumbers, installers and electricians
- Use for aluminum, copper and brass tubing



Plum-Burr Metal
1/4" to 1-5/8" tubing range
Code 550999

37.45



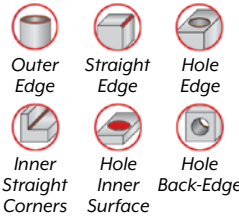
Plum-Burr Plastic
3/16" to 1-1/2" tubing range
Code 550998

17.94

Plastics Deflashing | Set KPA



Classic Handle A



- The complete kit for deflashing plastics
- **Set Contains:**
Mango II handle
UB38 deburring tool
Holders - B, E, G3 and LP
Blades - BI2, B25, EI10, E700, G30C and LI0

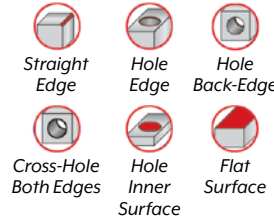
Mango KPA
Code 550626

119.25

Classic KPA
Code 550814

125.99

Ultra-Fine Finish | Set U



- Ultra-fine finish kit for precision workpieces
- **Set Contains:**
Aluminum handle, Non-rotating U holder, Rotating B holder, Four B blades for rotational deburring - B10, B11, B20 and B30, Four interchangeable U scrapers - BUS1, BUS2, BUS31 and BUS4, E500C scriber

Set U
Code 550940

110.72

SHAVIV Exclusively Available at KAR in Canada

END MILLS



Micrograin Solid Carbide | Uncoated & TiAlN-Futura Coated | 4 Flute | Center Cut

- Suitable for cutting hardened and high alloy steels, steel casting, chill casting, malleable cast iron, CrNi-steels, brass, copper, aluminum with a high percentage of silicon and abrasive plastics



Tolerance: 0/-0.0012



Ø Cutter (Inch)	Ø Shank (Inch)	LONG LENGTH						EXTRA LONG LENGTH					
		LOC (Inch)	OAL (Inch)	UNCOATED		TIALN-FUTURA		LOC (Inch)	OAL (Inch)	UNCOATED		TIALN-FUTURA	
				Code	Price	Code	Price			Code	Price	Code	Price
1/8	1/8	3/4	2-1/4	932892	11. ⁰⁰	934580	14. ⁹⁶	1	3	932744	13. ²³	934620	17. ⁶⁶
3/16	3/16	3/4	2-1/4	932895	12. ⁵¹	934900	16. ³⁷	1-1/8	3	932747	15. ⁰²	934911	19. ⁴⁴
1/4	1/4	1-1/8	3	932898	15. ³⁶	934582	19. ⁸¹	1-1/2	4	932750	18. ⁵¹	934622	24. ⁵⁹
5/16	5/16	1-1/8	3	932901	26. ⁷⁹	934583	34. ⁷⁸	1-5/8	4	932753	32. ¹²	934623	41. ⁸⁰
3/8	3/8	1-1/8	3	932904	33. ¹⁰	934901	49. ²¹	1-3/4	4	932756	39. ⁷⁷	934912	49. ²¹
7/16	7/16	2	4	932907	62. ⁰⁷	934585	73. ²⁷	3	6	932759	99. ⁴⁰	934625	104. ⁷⁴
1/2	1/2	2	4	932910	64. ¹⁹	934586	73. ⁶⁵	3	6	932762	86. ⁷⁷	934626	120. ⁵⁷
5/8	5/8	2-1/4	5	932913	129. ⁰³	934902	142. ⁷⁸	3	6	932765	154. ⁸⁹	934913	172. ⁹⁹
3/4	3/4	2-1/4	5	932916	167. ²⁵	934588	186. ⁷¹	3	6	932768	200. ⁶³	934628	226. ⁴⁵
1	1	2-1/4	5	932919	335. ¹⁶	934589	360. ³⁵	3	6	932771	402. ¹²	934629	432. ⁶⁴

BLOWOUT PRICES

While Quantities Last



METRIC THROW AWAY CUTTERS

Cobalt M42 | 3 Flute
Center Cut
Weldon Shank

Long Length

1.5 x 1/4 x 4.0 x 28.0	313186	3.17
2.0 x 1/4 x 4.5 x 29.0	313187	4.62
3.5 x 1/4 x 7.5 x 34.0	313189	4.11
4.0 x 1/4 x 9.5 x 39.0	313191	4.48

DIMENSIONS: Ø Cutter (mm) x Ø Shank (Inch) x LOC (mm) x OAL (mm)

Regular Length

1.5 x 1/4 x 2.5 x 24.5	313178	3.20
2.0 x 1/4 x 3.0 x 25.5	313179	3.45
3.0 x 1/4 x 4.5 x 28.0	313181	4.04
3.5 x 1/4 x 5.5 x 30.0	313182	3.65
5.0 x 1/4 x 7.5 x 36.0	313184	4.19



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*Products shown may not be exactly as illustrated Code 000313

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