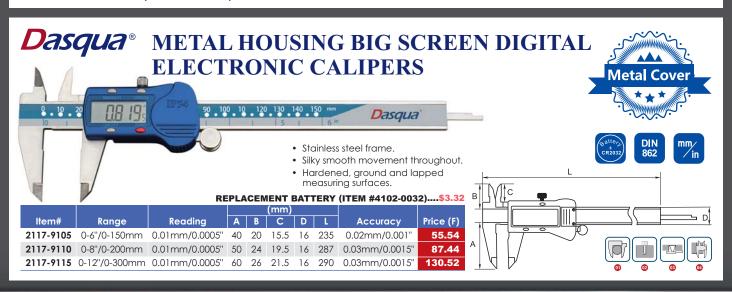




INTERNATIONAL MANUFACTURING TECHNOLOGY SHOW SEPTEMBER 12-17, 2022 • MCCORMICK PLACE • CHICAGO

COME VISIT US IN BOOTH #135417





ÎВ/

DIGITAL ELECTRONIC CALIPERS

Fraction/Inch/Metric DIGITAL ELECTRONIC CALIPERS



- Reads in fraction of an inch, easy to read.
- Resolution 0.0005"/0.01mm/1/64th
- Press button to change mode mm/inch/fractional
- 4-way measurements: Outside, Inside, Depth & Step.
- Standard SR 44, 1.55V battery included.
- On/off switch and auto off
- Zero setting
- With fitted case.
- Meets DIN 862

0~6" Range 4100-3506 \$3359

.0005" INCH/METRIC RESOLUTION

REPLACEMENT BATTERY (ITEM #4102-0030)....\$3.19

ltem#	Range	Accuracy	Price (F)
4100-3506	0-6"/0-150mm	.001"/.02mm	33.59
4100-3508	0-8"/0-200mm	.001"/.03mm	51.12
4100-3512	0-12"/0-300mm	.0015"/.04mm	72.20

Dasqua® BIG SCREEN DIGITAL ELECTRONIC CALIPER









- Surfaces of beam ground (Parallelism: 0.015, 20% better than normal) to ensure smooth movement throughout.
- Special glass etching for super accuracy.
- Digit Size:11.5mm.
- Inch, Metric, Fractional.
- Standard CR-2032 (3V) battery included.
- Meets DIN 862.



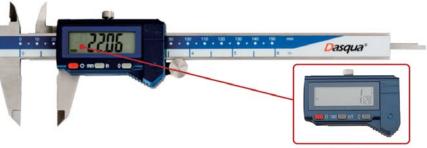
Dasqua® DIGITAL ELECTRONIC CALIPERS





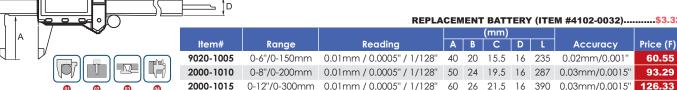








- Fraction
- NEW Advanced design.
- Strictly made in accordance with DIN862.
- Silky smooth movement throughout.
- Hardened, ground and lapped measuring surfaces.





Dasqua® OUTSIDE MICROMETERS



- Carbide measuring surface (Hardness≥89HRA) guarantees longer working life and higher
- Strictly made in accordance with DIN863

Laser inscription and engraving

on barrel and thimble satin

chrome finish

- Rachet rolling smoothly and evenly

Micrometer screw is precisely

- Strictly made in accordance with DIN 863.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Carbide measuring surfaces ground for longer service life.
- Standards included above 0-1" micrometer.
- · Fitted case.

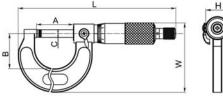
.001" GRADUATION

			(mm)						
Item#	Inch	Α	В	С	L	W	Н	Accuracy	Price (F)
4112-5105	0-1"	31	29.5	Ø6.5	133	58.5	18	0.0015"	34.37
4112-5110	1-2"	56	38	Ø6.5	137.2	76	18	0.0015"	41.00
4112-5115	2-3"	81	51	Ø6.5	162.7	91	18	0.002"	46.36
4112-5120	3-4"	106	63.5	Ø6.5	210.5	105	18	0.002"	56.06



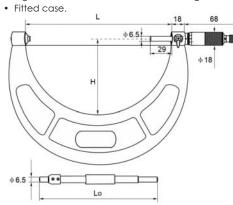
.0001" GRADUATION

			(mm)						
Item#	Inch	Α	В	С	L	W	Н	Accuracy	Price (F)
4112-0105	0-1"	31	29.5	Ø6.5	133	58.5	18	0.00015"	34.14
4112-0110	1-2"	56	38	Ø6.5	137.2	76	18	0.00015"	41.00
4112-0115	2-3"	81	51	Ø6.5	162.7	91	18	0.0002"	46.36
4112-0120	3-4"	106	63.5	Ø6.5	187.7	105	18	0.0002"	60.16
4112-0125	4-5"	131	76	Ø6.5	214.5	125	18	0.00025"	68.67
4112-0130	5-6"	156	89	Ø6.5	251	142	18	0.00025"	75.95



Dasqua® LARGE OUTSIDE MICROMETERS

- Strictly made in accordance with DIN 863.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Bigger size for larger range.
- Carbide measuring surfaces ground for longer service life.
- Zero setting standard bar
- Tapered designed frame for easier use in narrow slots and tight locations.
- Rigid steel frame is ribbed for extra strength.





OOO THE CRADUATION

.0001 GRADU	Allon		(mana)			
			(mm)			
Item#	Range	L	Н	Lo	Accuracy	Price (F)
4112-1135	6-7"	185	99	150	0.00027"	77.32
4112-1140	7-8"	210	111.5	175	0.00027"	84.03
4112-1145	8-9"	238	127	200	0.0003"	89.44
4112-1150	9-10"	264	140	225	0.0003"	98.44
4112-1155	10-11"	289	152.5	250	0.00035"	104.21
4112-1160	11-12"	315	165.5	275	0.00035"	109.82

Dasqua[®] OUTSIDE MICROMETER SETS

- Strictly made in accordance with DIN 863.
- With ratchet stop for constant pressure.
- Spindle thread hardened, ground and lapped for ultimate accuracy.
- Clear graduations laser-etched on satin chrome finish for easy reading.
- With spindle lock.
- Standards are included above 0-1" micrometer.









Aluminium case

.001" GRADUATION

ltem#	Set/pcs	Range	Package	Price (F)
4112-0206	3	0-3"	Plastic Case	120.74

.0001" GRADUATION

.0001" GRADUA	AIION			
ltem#	Set/pcs	Range	Package	Price (F)
4112-0006	3	0-3"	Plastic Case	120.74
4112-0010	4	0-4"	Plastic Case	175.37
4112-0215	6	0-6"	Aluminium Case	324.95
4112-0203	12	0-12"	Aluminium Case	921.49



SOLID METAL FRAME OUTSIDE MICROMETERS & SETS

- Solid Mitutoyo style metal C-shape frame for all sizes.
- Graduation: 0.0001"
- Hardened and precision ground anvil spindle thread with microlap finish on ends.
- Positive locking clamp with ratchet stop.
- Carbide tipped faces.
- Meets or exceeds federal specifications.
- Supplied with fitted case.





0~12" Set Consists of 0~6 & 6~12" SET 4200-0163 \$81695

DIN 863

.0001" GRADUATION

ltem#	Range	Price(F)
4200-0150	0-1"	32.40
4200-0152	1-2"	36.90
4200-0153	2-3"	44.00
4200-0154	3-4"	57.15
4200-0155	4-5"	65.20
4200-0156	5-6"	72.15
4200-0157	6-7"	78.15
4200-0158	7-8"	87.79
4200-0159	8-9"	101.44
4200-0160	9-10"	106.24
4200-0161	10-11"	122.50
4200-0162	11-12"	137.14



STANDARDS INCLUDED

0~3" Set						
4200-0165						
\$11300						

0~4" Set 4200-0164 \$ 15063 (F) 15063

0~6" Set
4200-0166
\$29 7 36

6~12" Set 4200-0167 \$59895

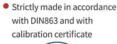
Dasqua® IP65 SPLASH PROOF DIGITAL **ELECTRONIC OUTSIDE MICROMETERS**













working life and higher wear resistance.

Large easy-to-read LED screen

Clear easy to read graduation lines Laser inscription and engraving



 Precision ratchet thimble cap maintains uniform measuring pressure to reduce errors



 IP65 protection, ensuring precision performance in harsh environments

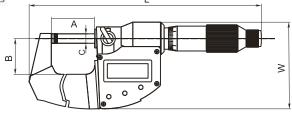
• A-class static protection.

- Display absolute position at startup.
- Insulating grips are employed on the frame to reduce heat transfer.

INCH/METRIC .0005" GRADUATION









			(mm)							
Item#	Range	Resolution	Α	В	С	L	W	Н	Accuracy	Price (F)
4410-1105	0-1"/0-25mm	0.00005"/0.001mm	29.8	24.5	Ø6.5	159.5	59.6	23.5	0.00015"/0.003mm	125.55
4410-1110	1-2"/25-50mm	0.00005"/0.001mm	55.3	31	Ø6.5	188.5	75.7	23.5	0.00015"/0.003mm	154.60
4410-1115	2-3"/50-75mm	0.00005"/0.001mm	80.8	44	Ø6.5	219	90.7	23.5	0.00015"/0.004mm	172.67
4410-1120	3-4"/75-100mm	0.00005"/0.001mm	105.8	56	Ø6.5	246.5	107.2	23.5	0.00015"/0.004mm	194.22
4410-1125	4-5"/100-125mm	0.00005"/0.001mm	130.8	68	Ø6.5	278	125.3	23.5	0.0002"/0.005mm	228.57
4410-1130	5-6"/125-150mm	0.00005"/0.001mm	155.8	81	Ø6.5	307.5	141.3	23.5	0.0002"/0.005mm	268.61

Dasqua® MICROMETER STAND

- Keep hands free for operating micrometer and positioning workpiece.
- Perfect for batch or mass production measurements in manufacturing and quality assurance.
- · Blue enamel finish.
- Very sturdy and stable.
- · Case iron.

up to 100mm/4" 7111-1105

perfect for Batch or Mass Production



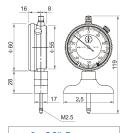


SPECIALTY MICROMETERS

Dasqua® 0-22" DIAL DEPTH **GAGE KIT**

- Used to measure depth of holes or parts with grooved or elevated surfaces.
- Dial Indicator for easy and clear reading.
- Hardened base with fine lapped contact surface.
 Extension rods of different lengths offering larger measuring ranges.





0~22" Range



PRECISION DEPTH MICROMETER SETS

- Interchangeable rods are fitted to the micrometer spindle against a positive stop and locked.
- Base surface hardened & lapped.
- Ratchet stop for consistent and repetitive measurements.
- Satin chrome non~glare.
- Complete with fitted case and spanner wrench.

Item#	Range	Base size	No. of Rods	Accuracy	Price (F)
4500-0001*	0-4"	2.5"	4	0.001"	78.25
4500-0011	0-4"	4"	4	0.001"	91.34
4500-0002	0-6"	4"	6	0.001"	114.82



Dasqua® DEPTH MICROMETERS

- For measuring depth of holes, parts with grooves or elevated surfaces.
- Satin chrome finish.
- Rachet thimble and threads are hardened, ground and lapped for consistent repeatability and accuracy.
- Positive locking clamp.
- Clear and easy-to-read graduations.
- · With fitted case.

.0016" ACCURACY

ltem#	Range	Graduation	No. of Anvils	(mm) Length	Price (F)
4612-5105	0-1"	0.001"	1	63	68.12
4612-5110	0-2"	0.001"	2	102	72.67
4612-5115	0-3"	0.001"	3	102	82.78
4612-5120	0-4"	0.001"	4	102	96.20
4612-5125	0-6"	0.001"	6	102	129.27



Dasqua Monoblock Depth Vernier Gages

- Hardened ground jaws with precision lapped measuring face.
- Satin chrome finish, hardened stainless steel throughout for long life.
- · Distinct lines and figures etched against satin chrome finish.
- Strictly made in accordance with DIN 862.

.0001" GRADUATION

		(mm)			
Item#	Range	L	D	Accuracy	Price (F)
3001-2901	0-6"	250	100	±0.03	45.40
3001-2903	0-8''	300	100	±0.03	55.98
3001-2905	0-12"	400	100	±0.04	73.81



BUY IT NOW

29° ACME SCREW THREAD GAGES

- Standard for grinding and setting tools when cutting Acme threads.
- Angle & edges are hardened and precision ground.
- Threads: 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9 & 10.



4901-0031





29° ACME SCREW THREAD **PITCH GAGE-15 BLADES**



4901-0033

THREAD DETECTIVE/IDENTIFIER - Inch & Metric

- Nut and bolt thread identifier. Each size has a nut and bolt checker on the same gauge.
- Inch nut and bolt sizes include #6-32, #8-32, #10-32, #10-24, 1/4-28, 1/4-20, 5/16-24, 5/16-18, 3/8-24, 3/8-16, 7/16-20, 7/16-14, 1/2-20 & 1/2-13
- Metric Nut and bolt sizes include M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.0, M8x1.25, M10x1.0, M10x1.25, M10x1.50, M12x1.25, M12x1.50 & M12x1.75
- Thread sizes are etched on each gauge
- The individual gauges rotate freely on the wire cable for fast thread verification
- Wire cable with loop for convenient hanging



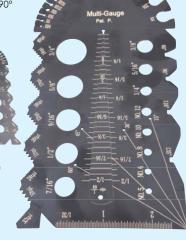
7-IN-1 MULTI-PURPOSE GAUGE

- Made of tool steel with black coating
- Laser engraved markings.
- 7-IN-1 Combine: Wire Gauge, Drill Sizes, Drill Point Gauge, Screw Pitch Gauge, Bore Gauge, Ruler & Protractor
- Tap/Drill recommendation chart included.
- Wire Gauge: 0.024~0.25"
- Drill Sizes: #5, 6, 8, 10, 12, 1/4", 5/16", 3/8", 7/16", 1/2" 9/16", 5/8" & 3/4"
- Drill Points: 60°, 90°, 118° & 135°
- Screw Pitch Gauge: 40th, 32nd, 24th, 20th, 18th, 16th, 14th, 13th, 12nd, 11th & 10th TPI
- Bore Gauge: 1/64~1/2"
- Ruler: 2-1/2" (32nd)
- Protractor: 15°, 30°, 45°, 60° & 90°
- · Vinyl pouch included.



6-5/8" Long x 3-1/2" Wide

4901-0055



36-0 WIRE MEASURING GAGES



- For measuring wire diameter and non-ferrous sheets such as copper, brass, aluminum, etc.
- Measures gauge no. from 36 to $0 (.003 \sim .3125)$.
- Made of hardened steel and satin chrome finish.
- Marks of wire size on front, decimal equivalents on reverse
- Complete in vinyl pouch.

* Limited Supply

4901-0049

4901-0048

WIRE MEASURING GAUGE - Rectangular Shape

- For measuring wire diameter and non-ferrous sheets such as copper, brass, aluminum, etc.
- Measures gauge no. from 36 to 0 (.003 ~.3125).
- Made of stainless steel.
- Eched marks of wire size and decimal equivalents on front side
- Complete in vinyl pouch



MINI UNIVERSAL MAGNETIC BASES

- · 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Accepts all A.G.D. dial indicators and test indicators.
- Base Dimension: 1.2" (width) x 1.5" (depth).
- Holds 3/8" stem dial indicators &



- · On/Off magnet power switch.
- Max. Reach: 7.5".
- With 8mm bushing

With Fine Adjustment 4401-0811



UNIVERSAL MECHANISM MAGNETIC BASE

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Overall stem length: 11.4"
- Fine adjustment.
- On/Off switch.
- Super power pull 130 lbs.
- Base Dimension: 2" (Width) x 2-1/2" (Depth)
- Accepts all AGD dial indicators and test indicators.







HEAVY DUTY UNIVERSAL MAGNETIC BASES



- 3-D rigid alumium arm movement.
- Unique central locking mechanism.
- Fine adjustment.
- On/Off switch.
- Accepts all AGD dial indicators and test indicators.

ltem#	Power Pull (Lbs.)	Base (L x W x H)	Max. Reach (Inch)	Price (F)
4401-0536	132	58x50x55mm	13.0	110.41
4401-0537	176	60x50x55mm	14.5	122.16
4401-0538	220	74x50x55mm	16.0	142.23

MINI INDICATOR MAG. BASE-One Knob Lock

- Base dimension: 1-1/8 (W) x 1-3/8 (H)x 1-3/8" (D)
- Max. Reach: 10"
- On/Off switch
- Hold stems: 8mm & 3/8"
- With dovetail clamp

Limited Sapply!

4401-0005



MAGNETIC INDICATOR HOLDER

- Holds most of dial and test indicators.
- Stem holds: 3/8",5/16", 1/4" diameter.
- 80 lbs magnetic pull.
- Overall height: 5"
- Fine adjustment.





EASY RELEASE MAGNETIC BASE



- Single universal rod, has 3 diameters to allow mounting popular indicators without changing rods
- Full 360° swivel
- · Strong magnetic pull with easy

4401-0802

UNIVERSAL MAGNETIC BASE -UNIQUE TOP ADJUSTMENT



- 3-D rigid aluminium arm movement.
- Unique fine adjustment mechanism.
- On/Off switch
- Dovetail groove for test indicator

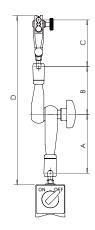


Item#	Power Pull (Lbs.)	Base (L x W x H)	Max. Reach (Inch)	Price (F)
4401-0532	66	36x30x35mm	6.5	79.26
4401-0533	176	60x50x55mm	10.7	106.95
4401-0534	220	74x50x55mm	13.7	107.22

TAKE 15% OFF

Dasqua® LOCK'T MAGNETIC BASE

- All wear parts use hardened high grade steel and with hardness over HRC 58°.
- Inner structure is made of bearing steel, delivering more wearresisting ability and longer service life.





 Super force locking mechanical universal arm New type locking mechanism, super strong arm lock and super tight locking force guarantees long life and firm positioning



Ergonomic design
Ergonomic-designed tightening
knob provides comfortable and firm
grip; Flexible and super strong rotary
joints, produce smooth adjustments
in any direction or location

• CNC Machining
Main parts produced on CNC
machines, providing extremely
accurate and high precision fit.
Ensuring high quality and high



ltem#	Pull	Dimensions	Mount	A	В	C	(D)	Price (F)
7121-0020	50kg	40x40x40	M6x1.00	62	52	79	220	94.72
7121-0025	80kg	60x50x55	M8x1.25	100	82	81	290	102.23
7121-0030	100kg	74x50x55	M8x1.25	145	95	81	355	119.55

Thread

(mm)

STRONG-LOCK UNIVERSAL MAGNETIC BASE



HYDRAULIC MAGNETIC BASE

- Absolute sealed hydraulic system.
- Knob turning creates tension and high pressure on the joints to hold the rods absolutely rigid.
- Multi-nimble joint for instant fix at any desired position.
- Fine adjustment.
- Fits dovetail and 3/8" stem indicators.
- Super power pull 130 lbs.
- Overall stem length 13"
- Base Dimension: 2" (Width) x 2-1/2" (Depth)

4401-0003 \$11017



GRANITE STAND W/UNIVERSAL ARM

- 12x8x2" granite plate.
- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Fine adjustment.
- Dovetail groove for clamping test indicator
- Indicator stem hole 8mm
- Overall Reach: 15"
- Weight: 24 lbs.

4401-0120 \$19148



ROUND UNIVERSAL MAGNETIC BASE



Sale Ends Dec. 29, 2022

INDICATOR & MAGNETIC BASE KITS

DIAL TEST INDICATOR & MINI UNIVERSAL MAGNETIC BASE KIT



BUY IT NOW

0-0.03" RANGE TEST INDICATOR

- Grauation: .0005"
- Reading: 0-15-0
- Precision pivot bearing.
- 0.098" Contact point.
- Satin chrome finish.
- Dovetail mount top, back, & front
- Includes fitted case & 2 stems (5/32" & 3/8").
- Jeweled movements.
- · Automatic reversing.

MINI UNIVERSAL MAG BASE

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Accepts all A.G.D. dial indicators and test indicators.
- On/Off magnet power switch.
- Max Reach: 7.5"
- Base Dimension: 1.2" (width) x 1.5" (depth).

3PC TEST INDICATOR, TRAVEL INDICATOR & UNIVERSAL MAGNETIC BASE KIT

0-0.03" RANGE TEST INDICATOR

- · Dovetail mount top, back, & front.
- Includes fitted case & 2 stems(5/32" & 3/8").
- Reading: 0-15-0
- Graduation: .0005'
- Precision pivot bearing.
- 0.098" Contact point. · Satin chrome finish.
- · Jeweled movements.
- Automatic reversing.

4400-0018 4400-0010, 4400-0001 & 4401-0511

0-1" DIAL INDICATOR

- Graduation: .001"
- Contact point interchangeable with thread 4-48.
- Stem: 3/8" diameter.
- Rack & contact point made of hardened stainless steel.
- Jeweled movement.
- · 2" Dia. dial face.
- Lug back.

PRO-QUALITY UNIVERSAL MAGNETIC BASE

- 3-D rigid steel arm movement.
- Unique central locking mechanism.
- Fine adjustable.
- On/Off switch.
- Super power pull 130 lbs.
- Base Dimension: 2"(Width)x2-1/2"(Depth)

DIAL TEST INDICATOR & MINI UNIVERSAL MAGNETIC BASE KIT

0-0.03" RANGE TEST INDICATOR

- Grauation: 0005'
- · Dovetail mount top, back, & front.
- Includes fitted case & 2 stems (5/32" & 3/8").
- Precision pivot bearing.
- Reading: 0-15-0
- Satin chrome finish.
- leweled movements
- Automatic reversing.



4400-0027



- 3-D rigid steel arm movement.
- Unique central locking
- mechanism
- Accepts all A.G.D. dial indicators and test indicators.
- On/Off magnet power switch.
- Max. Reach: 7.5". Base Dimension:
- 1.2" (width) x 1.5" (depth).

Interapid STYLE TEST INDICATOR & MAGNETIC INDICATOR HOLDER KIT



- Easy-to-read tilted dial
- Dial diameter: 1-1/2"
- 210° swivel arc.
- Graduation: .0005"



INDICATOR HOLDER

- 80 lbs magnetic pull.
- Overall height: 5'
- Fine adjustment.
- Holds most dial and test indicators.
- Stem holds: 3/8, 5/16, 1/4" diameter.

IP67

Dasqua® 7PC ULTRA PRECISION MACHINIST SET

- 176lbs. super strong power pull 275mm arm length magnetic base with fine adjustment (7121-0025)
- Big screen IP67 oil proof digital caliper, 0-150mm/0-6" range, 0.0005" resolution, inch/metric/fraction (2015-2405)
- 0-150mm/0-6" rule, graduations: 0.5, 1.0, 1/64", 1/32", 1/16" (1012-2011)
- IP65 digital outside micrometer, 0-25mm/0-1" range, 0.0005" resolution (4410-1105)
- Dial test indicator with shock proof gearing, 0-0.8mm range, 0.001" resolution (5211-1129)
- Ultra precision 1-2-3 blocks, squareness 0.0001"/1" (8407-0005)
- Depth base attachment (3001-1001)
- Aluminum case.



A MUST FOR EVERY MACHINIST!





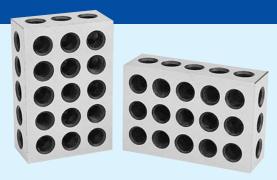
TAKE 15% OFF

PRECISION 1-2-3 BLOCKS SETS

- Heat treated and case hardened to HRC 55 to 60.
- Hardened and precision ground on all 6 sides of each block.
- Accuracy with squareness on all sides within .0002" per inch.
- 23 holes consists of 5 tapped holes (3/8" 16 for 1-2-3) for clamping and 18 untapped holes drilled.
- Cross drilling design gives minimum weight and maximum strength.
- Dimensions: 1-2-3 is 1 x 2 x 3"

1-2-3 BLOCK SET 3402-0005 \$2306 TiN Coated
1-2-3 BLOCK SET
3402-0905
\$3743

MATCHED PAIRS AND SOLD AS PAIR



5 Tapped Holes & 18 Untapped Through Holes

Dasqua® 1-2-3 BLOCKS

- Supplied with durable fitted ABS case.
- Product Dimensions: 1" x 2" x 3".
- Heat treated and case hardened to HRC 58-62.
- Hardened and precision ground on all 6 sides of each block.
- 23 holes consists of 5 tapped holes that are 3/8-16 for clamping and 18 untapped holes
- Sold in pairs.
- Tolerance of size ±.0002", Parallelism 0.0002", Height of pair 0.0002".
- Cross drilling design gives minimum weight and maximum strength.





Item#	Size	Squareness	Price (F)
8407-0005	1 x 2 x 3"	0.0001"/1"	45.40
8407-0010	1 x 2 x 3"	0.0003"/1"	30.24





ULTRA PRECISION 8PC 1-2-3 BLOCKS & SCREWS SET

- Hardened and precision ground on all 6 sides of each block.
- Accuracy with Squareness on all sides within .0001 per inch.
- 23 holes consist of 5 (3/8"-16) tapped holes for clamping and 18 untapped holes drilled .
- Supplied with fitted case.

5 TAPPED HOLES & 18 UNTAPPED THROUGH HOLES

8 PC SET 3402-0055 \$3983

MATCHED PAIRS

INCLUDES

Matched pair of 1-2-3 blocks with 23 holes, 5pc of 3/8 -16 Socket Screws, Hex key





DRILLS & SETS

SILVER & DEMMING DRILLS & SET 118° DRILL POINT • 1/2" STRAIGHT SHANK

- High Speed Steel.
- 6" overall length.
- Black oxide.
- Set supplied with case.





INDIVIDUALS

ltem#	Size	Price (E)
5000-0050	17/32"	6.11
5000-0052	9/16"	6.40
5000-0056	5/8"	6.58
5000-0060	11/16"	8.29
5000-0064	3/4"	9.15
5000-0068	13/16"	10.40
5000-0072	7/8"	15.37
5000-0076	15/16"	17.29
5000-0078*	31/32"	9.77
5000-0080	1"	19.69
5000-0088	1-1/8"	23.45
5000-0094	1-1/4"	29.85
5000-0097	1-3/8"	44.95
5000-0099	1-1/2"	56.06

* Limited Supply

13PC M35 COBALT SILVER & DEMMING DRILL SET 118° DRILL POINT • 1/2" STRAIGHT SHANK

- M35 (5%) cobalt used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel.
- 6" overall length.
- Supplied with case.

13 PC SET INCLUDES:

17/32, 9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4,13/16, 7/8, 15/16, 31/32 & 1'

13 PC SET 5000-0012



METRIC SILVER & DEMMING DRILLS 118° DRILL POINT • 1/2" STRAIGHT SHANK

• High Speed Steel.

• 6" overall length.



ltem#	Size	Price (E)
5000-0140	14mm	5.16
5000-0145	14.5mm	6.08
5000-0150	15mm	6.08
5000-0155	15.5mm	6.36
5000-0160	16mm	6.36
5000-0165	16.5mm	6.36
5000-0170	17mm	7.68
5000-0175	17.5mm	7.68
5000-0180	18mm	7.68
5000-0185	18.5mm	7.92
5000-0190	19mm	8.44
5000-0195	19.5mm	8.44
5000-0200	20mm	9.96
5000-0205	20.5mm	9.96
5000-0210	21mm	10.60
5000-0220	22mm	11.96
5000-0230	23mm	13.44

HSS TAPER SHANK DRILLS 118° SPLIT POINT

Designed for drilling in many different materials and a wide range of applications. These drills feature a surface treatment to imporve chip flow and a taper shank made to American National Standard (Morse) dimensions. Black oxide finish for increased wear resistance and improved lubridity, reducing chip welding and galling.

HIGH SPEED STEEL

5302-2024 Shown



NEW

ltem#	Dia. d1	Flute Length I2	Shank Taper	OAL I1	Price (F)
5302-1020	5/16	3-1/8	1MT	6-3/8	5.16
5302-2024	3/8	3-1/2	2MT	7-3/8	5.16
5302-2028	7/16	3-7/8	2MT	7-3/4	5.16
5302-2036	9/16	4-7/8	2MT	8-3/4	6.79
5302-2040	5/8	4-7/8	2MT	8-3/4	7.39
5302-2044	11/16	5-3/8	2MT	9-1/4	8.64
5302-2048	3/4	5-7/8	2MT	9-3/4	9.86
5302-2052	13/16	6-1/8	2MT	10	11.71
5302-3044	11/16	5-3/8	3MT	10	8.64
5302-3052	13/16	6-1/8	3MT	10-384	11.71
5302-3056	7/8	6-1/8	3MT	10-3/4	14.11
5302-3060	15/16	6-1/8	3MT	10-3/4	18.43
5302-3100	1	6-3/8	3MT	11	19.06
5302-3104	1-1/16	6-5/8	3MT	11-1/4	23.98
5302-3108	1-1/8	7-1/8	3MT	11-3/4	25.22
5302-3116	1-1/4	7-7/8	3MT	12-1/2	38.74
5302-4112	1-3/16	7-3/8	4MT	13	33.84
5302-4116	1-1/4	7-7/8	4MT	13-1/2	38.74
5302-4120	1-5/16	8-5/8	4MT	14-1/2	41.93
5302-4124	1-3/8	8-7/8	4MT	14-1/2	46.13
5302-4132	1-1/2	9-3/8	4MT	15	61.67
5302-4136	1-9/16	9-5/8	4MT	15-1/4	65.88
5302-4140	1-5/8	10	4MT	15-5/8	65.88
5302-4148	1-3/4	10-3/8	4MT	16-1/4	75.62
5302-4200	2	10-5/8	4MT	16-5/8	110.88

HELICAL S.T.I. THREAD REPAIR KITS - SAE & METRIC

- · Simple and easy to use kit.
- For repairing tapped holes.
- Cost effective system creates stronger than original threads.
- Creates a stronger internal thread in soft metals.
- Professional kit includes drills, STI taps and lug breaking

• 132pc set Includes:

110pc- Stainless Steel Inserts

5pc- STI HSS Taps

5pc- HSS Twist Drills

5pc-Coil Drivers

5pc- Tang Removers 1pc- L Hex Wrench

1pc-Metal Case



132PC SETS

Item#	Description	Insert Thread	STI Tap	HSS Drill	Price (F)
		25ea-1/4-20	1/4-20	17/64	
	Coarse Thread	25ea-5/16-18	5/16-18	21/64	
1011-0055	Repair	25ea-3/8-16	3/8-16	25/64	121.70
	Kit	25ea-7/16-14	7/16-14	29/64	
		10ea-1/2-13	1/2-13	17/32	
		25ea-1/4-28	1/4-28	17/64	
	Fine Thread Repair Kit	25ea-5/16-24	5/16-24	21/64	139.28
1011-0056		25ea-3/8-24	3/8-24	25/64	
		25ea-7/16-20	7/16-20	29/64	
		10ea-1/2-20	1/2-20	17/32	
		25ea-M5 x 0.80	$M5 \times 0.80$	5.2	
1011-0051		25ea-M6 x 1.00	$M6 \times 1.00$	6.3	
	5-12mm	25ea-M8 x 1.25	M8 x 1.25	8.3	113.03
		25ea-M10 x 1.50	M10 x 1.50	10.4	
		10ea-M12 x 1.75	M12 x 1.75	12.4	



16pc & 31pc Kit Includes:

10pc or 25pc- Stainless Steel Inserts

1pc-STI HSS Tap

1pc- HSS Twist Drills

1pc-Coil Driver

1pc-Tang Breaker

1pc- L Hex Wrench

1pc- Metal Case

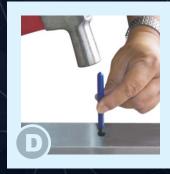


TOP C & STEC	KIIS				
ltem#	Insert-Thread	No of Insert In Set	STI Tap	HSS Drill	Price (F)
1011-0081	1/4-20	25	1/4-20	17/64	19.18
1011-0084	5/16-18	25	5/16-18	21/64	20.69
1011-0087	3/8-16	25	3/8-16	25/64	28.64
1011-0094	1/2-13	10	1/2-13	17/32	33.80
1011-0065	M5 x 0.80	25	$M5 \times 0.80$	5.2	15.99
1011-0066	M6 x 1.00	25	M6 x 1.00	6.3	18.72
1011-0068	M8 x 1.25	25	M8 x 1.25	8.3	21.97
1011-0070	M10 x 1.50	25	M10 x 1.50	10.4	25.54
1011-0072	M12 x 1.75	10	M12 x 1.75	12.4	35.71









HELICAL THREAD REPAIR INSERTS - Stainless Steel - SAE & METRIC

- Thread repair inserts are used to fix a stripped bolt or screw thread or threaded hole in metals, composites, wood or other materials. Helical inserts have a wired coil design. When inserted into a tapped hole with an installation tool, the coil expands to anchor the insert in place.
- Made of stainless steel
- Insert Lenth=1.5D(Diameter)





Item#	Insert-Thread	PCS/Pack	Price (F)
1011-0240	M5 x 0.80	25	2.88
1011-0242	M6 x 1.00	25	3.32
1011-0244	M8 x 1.25	25	4.25
1011-0246	M10 x 1.50	25	5.24
1011-0248	M12 x 1.75	10	2.73
1011-0251	1/4-20	25	4.43
1011-0252	1/4-28	25	4.43
1011-0253	5/16-18	25	4.59
1011-0254	5/16-24	25	4.59
1011-0255	3/8-16	25	6.17
1011-0256	3/8-24	25	6.17
1011-0257	7/16-14	25	7.66
1011-0258	7/16-20	25	7.66
1011-0259	1/2-13	10	3.47
1011-0260	1/2-20	10	3.47



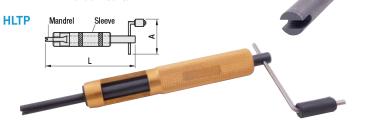
THREADING WIRE INSERT INSTALATION TOOLS-SAE & METRIC

FOR HELICAL INSERTS

• These special tools make installing Threading Wire Inserts fast and easy.

· For use with wire thread inserts.

APPLICATION: Installation of Free Running & Screw Locking Helical Inserts



ltem#	Insert-Thread	Α	L	Price (F)
1011-0211	1/4-20	3	5-1/2	21.30
1011-0212	1/4-28	2-3/4	5-1/4	21.30
1011-0216	5/16-18	3	6-1/4	21.30
1011-0217	5/16-24	3	6-1/4	21.30
1011-0221	3/8-16	2-3/4	6-1/4	22.69
1011-0222	3/8-24	3	6-1/2	22.69
1011-0226	7/16-14	3-1/2	6-1/2	24.83
1011-0227	7/16-20	2-3/4	6-1/2	24.83
1011-0231	1/2-13	3-1/4	6-1/2	31.96
1011-0232	1/2-20	3-1/4	7	31.96
1011-0261	M5 x 0.80	3	5	19.90
1011-0266	M6 x 1.00	3	5.1/2	19.90
1011-0271	M8 x 1.25	3	6-1/4	21.30
1011-0276	M10 x 1.50	3	6-1/2	22.69
1011-0281	M12 x 1.75	2-3/4	6-1/2	24.83

SELF TAPPING THREAD REPAIR KITS-METRIC

- Self tapping, no pre-tapping required.
- Very high pull-out resistance.
- Unlimited thread re-usability.
- Protects expensive components from damage.
- Fits almost every application.
- Produces high quality, permanent, wear-resistant threads.
- Highly resistant to vibration, can withstand vibration without loosening



Kit Includes:

10pc- Stainless Steel Inserts 1pc- Installation Tool 1pc- HSS Twist Drills 1pc- Metal Case

Item#	Insert-Thread	Price (F)
1011-0205	$M5 \times 0.80$	21.80
1011-0207	M6 x 1.00	27.19
1011-0209	M8 x 1.25	34.43
1011-0210	M10 x 1.5	44.43
1011-0213	M12 x 1.75	53.87

18PC HSS TAP & DRILL COMBO SETS

- High speed steel made taps and drills.
- Steel case
- Drills are matched with taps to make jobs much





1 each HSS Hand Tap 6-32 NC, 8-32 NC, 10-24 NC, 10-32 NF, 1/4"-20 NC, 5/16"-18 NC, 3/8"-16 NC, 7/16"-14 NC, 1/2"-13 NC

1 each HSS Jobbers Drill #36, #29, #25, #21, #7, F, 5/16", U, 27/64"

National Fine Pitch Set

National Course Pitch Set 1011-0018

National Fine Pitch Set Includes

1 each HSS Hand Tap 6-40 NF, 8-36 NF, 10-24 NF, 10-32 NF, 1/4"-28 NF, 5/16"-24 NF, 3/8"-24 NF, 7/16"-20 NF, 1/2"-20 NF 1 each HSS Jobbers Drill #33, #29, #25, #21, #3, I, Q, 25/34", 29/64'

18PC HSS METRIC TAP & DRILL COMBO SET

- High speed steel made taps and drills.
- Plug taps are fully ground.
- · With index steel case.
- Drills are matched with taps to make jobs much easier.



 $M2.5 \sim M12$ 1011-0020







Set Includes

1 each HSS Hand Tap M2.5x0.45, M3.0x0.50, M3.5x0.60, M4.0x0.70, M5.0x0.80, M6.0x1.00, M8.0x1.25, M10.0x1.50 & M12.0x1.75 1 each HSS Jobbers Drill

2.05, 2.50, 2.90, 3.30, 4.20, 5.00, 6.70, 8.50 & 10.20mm

14 PC H.S.S. 3-IN-1 COMBINED DRILL/TAP/COUNTERSINK & SCREWDRIVER BIT SETS

- Complete hole drilling, tapping, deburring and countersinking in one operation with power drill saves labor and time. For use to tap steel, copper, brass, aluminum and plastic up to 10-gauge(metal).
- Back tapered design helps prevent thread damage from over-drilling.
- One-piece drill/tap assures proper drill for tap size.
- Made of high speed steel for longer life.
- 14pc Includes: 6pc of combination drill & tap countersink.

1pc of high torque tested quick-change adapter 6pc of quick change CRV steel bit. 1pc of carry case.



			SHOWI
ltem#	Thread Range	CRV Bit	Price (F)
1011-0140	6~32, 8~32, 10~24	Slot3, Slot4, PZ1	32.99
1011-0140	10~32, 12~24, 1/4~20	PZ2, PH1, PH2	32.33
1011-0141	M3X0.5, M4x0.7, M5x0.8,	Slot3, Slot4, PZ1	35.49
1011-0141	M6x1.0, M8x1.25 & M10x1.5	PZ2, PH1, PH2	33.43





BUY IT NOW

6PC HSS END MILL SETS Center Cut • 3/8" Shank

- Single end.
- · High speed steel.

2 FLUTE SET 8000-0001

6 PC INCLUDES: 1/8, 3/16, 1/4, 5/16, 3/8 & 1/2"

4 FLUTE SET 8000-0002



TITANIUM COATED END MILL SETS

- Titanium coated for longer life
- High speed steel, single end.
- Complete with wooden case.

20 PC SET 8000-0020 2 & 4 FLUTE 10 PC OF EACH: 3/16-3/4" by 16ths

10 PC SET 5800-0010* 3/16-3/4" by 16ths

GROUND **FROM SOLID CENTER CUT**

*Limited Supply





6PC COBALT 4 FLUTE END MILL SETS-SINGLE END

- Center cut
- M42 (8%) cobalt, used for cut in tough high tensile strength materials like stainless steel, titanium and inconel.
- Uniform cutting load per tooth assures minimum chatter deflections.
- Preferred for light to medium removal rates and obtaining better surface finishes on soft, tough and long chip materials.

With wooden stand

M42 8% COBALT



8000-0004

Set Includes

Size	Dia.	Length	OAL	
1/8	3/8	1/2	2-11/32	
3/16	3/8	9/16	2-3/8	
1/4	3/8	11/16	2-1/2	
5/16	3/8	3/4	2-17/32	
3/8	3/8	3/4	2-1/2	
1/2	1/2	1-1/4	3-9/32	

3/16" SHANK DOUBLE-END 10PC END MILL SET



- · High speed steel.
- Center-cut.
- Double end.
- Supplied with wooden stand.



CORNER ROUNDING END MILLS & SET



- · Intended for use in milling rounded corners, etc.
- Form-relieved type; can be sharpened many times without changing the form

		Diamet	er (Inch)		
Item#	Radius	Mill	Shank	OAL	Price (F)
5800-4020	1/16	7/16	3/8	2-1/2	12.12
5800-4030	3/32	1/2	3/8	2-1/2	13.08
5800-4040	1/8	5/8	1/2	3	16.30
5800-4050	5/32	3/4	1/2	3	20.70
5800-4060	3/16	7/8	1/2	3	24.62
5800-4080	1/4	1	1/2	3	30.45
5800-4090	5/16	1-1/8	1/2	3-1/4	36.82
5800-4110	3/8	1-1/4	1/2	3-1/2	48.33
5800-4115	7/16	1-3/8	1	4	63.76
5800-4160	1/2	1-1/2	3/4	3-7/8	68.56

6PC COBALT 4 FLUTE END MILL SET-DOUBLE END

- · Center cut.
- M42 (8%) cobalt, used for cut in tough high tensile strength materials like stainless steel, titanium and inconel.
- Uniform cutting load per tooth assures minimum chatter deflections.
- Preferred for light to medium removal rates and obtaining better surface finishes on soft, tough and long chip materials.
- · With wooden stand.

Set Includes

Size	Shank Dia.	Flute Length	OAL
1/8	3/8	3/8	3-1/16
3/16	3/8	1/2	3-1/4
1/4	3/8	5/8	3-3/8
5/16	3/8	3/4	3-1/2
3/8	3/8	3/4	3-1/2
1/2	1/2	1	4-1/8

M42 8% COBALT

8000-0005

INDEXABLE END MILLS

SQUARE SHOULDER INDEXABLE END MILLS - Accepts APKT(10mm) Carbide Insert

- 90° square shoulder milling
- Used for slotting and peripheral milling
- Uses standard APKT-1003 inserts (not included)

 Excellent alternative to HSS, cobalt and carbide end mills for heavy material removal rates

SQUARE SHOULDER

Item#	Cutter Dia.	Shank Dia.	(Inch) OAL	No of Inserts	Use Insert	Screw	Torx Wrench	Price (E)
5822-0375	3/8	1/2	3"	1	APKT1003	M2.5x6	Т8	40.36
5822-0500	1/2	5/8	3-1/4"	1	APKT1003	M2.5x6	T8	37.94
5822-0625	5/8	5/8	3-1/4"	2	APKT1003	M2.5x6	T8	41.93
5822-0750	3/4	3/4	3-1/4"	3	APKT1003	M2.5x6	T8	43.92
5822-1000	1	1	3-3/2"	4	APKT1003	M2.5x6	T8	65.06
5822-1250	1-1/4	1-1/4	3-3/4"	5	APKT1003	M2.5x6	T8	73.95
5822-1500	1-1/2	1-1/2	4-1/4"	6	APKT1003	M2.5x6	T8	81.05



SCREWS - Pontacoment

ckews - kepiacemem						
Item #	Size	Price (F)				
2100-0070	M2.5x6	3.63				

3PC SQUARE SHOULDER INDEXABLE END MILL SET

- 90° square shoulder milling
- Used for slotting and peripheral milling
- Excellent alternative to HSS, cobalt and carbide end mills for heavy material removal rates
- Used standard APKT-1003 inserts (not included) with M2.5x6mm screw.

SQUARE SHOULDER

 $\overset{\text{3 PC SET}}{\text{5822-0360}} \\ \overset{\$}{10700}$



Cutting Dia.	Shank Dia.	OAL L	No. of Inserts	Insert Used	Screw	Torx Wrench
3/8"	1/2"	3"	1	APKT1003	M2.5x5mm	T8
1/2"	1/2"	3"	1	APKT1003	M2.5x5mm	T8
5/8"	1/2"	3"	2	APKT1003	M2.5x6mm	T8





INSERT - Optional

ltem #	Size	Price (F)
6010-4203	APKT1003	12.45

TORX WRENCH - Replacement

Item # Size Price (F)

2100-0092 T8 3.10



SCREWS - Replacement

ltem #	Size	Price (F)
2100-0067	M2.5x5	3.63
2100-0070	M2.5x6	3.63

SQUARE SHOULDER COOLANT-THRU INDEXABLE END MILLS - Accepts APKT(10mm) Carbide Insert

- Coolant thru.
- 90° square shoulder milling
- Used for slotting and peripheral milling
- Excellent alternative to HSS, cobalt and carbide end mills for heavy material removal rates
- Uses standard APKT-1003 inserts (not included)

5822-1700 Shown

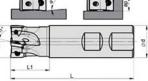


SQUARE SHOULDER

INSERTS NOT INCLUDED

Item#	Cutting Dia. D	Shank Dia. d	OAL L	No. of Inserts	Use Insert	Screw	Torx Wrench	Price (F)
5822-1601	3/8"	1/2"	3"	1	APKT1003	M2.5x6	T8	47.83
5822-1603	1/2"	1/2"	3-1/4"	1	APKT1003	M2.5x6	T8	47.83
5822-1605	5/8"	1/2'	3-1/4"	2	APKT1003	M2.5x6	T8	73.65
5822-1606	3/4"	3/4"	3-1/2"	3	APKT1003	M2.5x6	T8	74.66
5822-1608	1"	3/4"	3-1/2"	4	APKT1003	M2.5x6	T8	89.88
5822-1700	1-1/4"	3/4"	3-3/4"	5	APKT1003	M2.5x6	T8	113.14





INSERT - Optional

Item # Size Price (F)
6010-4203 APKT1003 12.45

SCREW - Replacement

 Item #
 Size
 Price (F)

 2100-0070
 M2.5x6
 3.63

 TORX WRENCH - Replacement

Item # Size Price (F)
2100-0092 T8 3.10

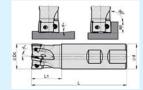
3PC SQUARE SHOULDER COOLANT-THRU INDEXABLE END MILL SET - Accepts APKT(10mm) Carbide Inserts

- · Coolant thru.
- 90° square shoulder milling
- Used for slotting and peripheral milling
- Excellent alternative to HSS, cobalt and carbide end mills for heavy material removal rates
- Uses standard APKT-1003 inserts (not included) with M2.5x6mm screw.

SQUARE SHOULDER

3 PC SET 5822-1710 \$13056

INSERTS NOT INCLUDED





INSERT - Optional

 Item #
 Size
 Price (F)

 6010-4203
 APKT1003
 12.45

 TORX WRENCH - Replacement

ORX WREN	CH - Repla	cement
ltem #	Size	Price (F)
2100-0092	T8	3.10



SCREWS - Replacement

ltem #	Size	Price (F)
2100-0057	M2.5x5	4.38
2100-0070	M2.5x6	3.63

OAL 3/8' APKT1003 3" M2.5x5mm T8 1/2 1/2" 1/2" 3" APKT1003 M2.5x5mm T8 5/8" 1/2" 2 APKT1003 M2.5x6mm T8

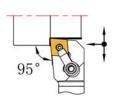
INDEXABLE TURNING TOOL HOLDERS



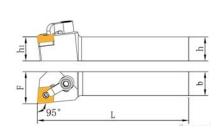
MCLNR

MCLNR PIN & CLAMP STYLE TOOL HOLDERS -5° LEAD ANGLE • RIGHT HAND

- 0° Relief
- For turning and facing.







INSERTS NOT INCLUDED

See pages 165-166 for spare parts.

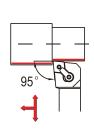
			Dimensi	ons		161	(6)					
ltem#	Industry Ref. No.	h=h1	Shank Dia. b	Offset F	OAL L	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Key	Price (F)
2011-1204	MCLNR20-4D	1-1/4"	1-1/2"	1.50"	6"	CH43_	C1203B	NL-0617	CL-12	XNS-0829	S2.5 S4	62.64
2011-1205	MCLNR20-5E	1-1/4"	1-1/4"	1.50"	7''	CH54_	C1604B	NL-0822	CL-12	XNS-0829	\$4	65.51

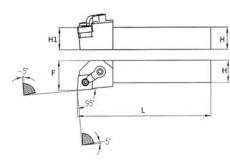
HARLINGEN® MCLNR PIN & CLAMP STYLE TOOL HOLDERS -5° LEAD ANGLE • RIGHT HAND

MCLNR

- 0° Relief
- · For turning and facing.

Up to 30% Higher Productivity & Profitability!







See pages 165-166 for spare parts. Replacement inserts shown on pages 173-174.

INSERTS NOT INCLUDED

			Dimensi	ons								
Item#	Industry Ref. No.	h=h1	Shank Dia. b	Offset F	OAL L	Insert	Shim	Lock Pin	Clamp	Clamp Screw	Torx Wrench	Price (F)
9710-0109	MCLNR12-4B	3/4"	3/4"	1"	4-1/2"	CNMG4	ICSN-433	NL-46	CK-20	STC-20	\$3/32 \$1/8	62.97
9710-0104	MCLNR16-4D	1"	1"	1-1/4"	6"	CNMG4	ICSN-433	NL-46	CK-20	STC-20	\$3/32 \$1/8	68.28

MCLNR TOOL HOLDERS - RIGID CLAMP DESIGN -5° LEAD ANGLE • RIGHT HAND • 0° Relief 1. Downward Force Towards Tool Body 1. Downward Force Towards Tool Body 1. Downward Force Towards Tool Body

See page 152 for advantages.

See pages 165-166 for spare parts. Replacement inserts shown on pages 173-174.

			Dimensi	ons					192				
Item #	Industry Ref. No.	h=h1	Shank Dia. b	Offset F	OAL L	Insert	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key	⇒ Price (F)
2011-1122	TMCLNR12-4B	3/4"	3/4"	1.00"	4.5"	CN_43_	C0903B	LYM0610	TP-2	MS0523	YB6512	\$3	64.56
2011-1162	TMCLNR16-4D	1"	1"	1.25"	6"	CN_43_	C0903B	LYM0610	TP-2	MS0523	YB6512	\$3	75.10
2011-1167	TMCLNR16-5D	1"	1"	1.25"	6"	CN_54_	C1604B	LYM0810	TP-4	MS0523	YB6512	\$3	83.73
2011-1202	TMCLNR20-5E	1-1/4"	1-1/4"	1.50"	7"	CN_54_	C1604B	LYM0810	TP-4	MS0523	YB6512	\$4	104.33



MORSE TAPER TOOLING

FLY CUTTERS - Morse Taper Shank

- A fly cutter usually has two cutting heads and it is able to cut with a constant depth to face any surface to obtain a uniform surface.
- Utilizes standard tool bits.
- · Counter balanced.
- Made of durable hardened steel.





4006-0022 Shown

ltem#	Shank	Diameter of Head (In)	Fit Tool Bit (In)	Drawbar Thread	Price (F)
4006-0022	MT2	1.5	3/16	3/8~16	25.96
4006-0023	MT3	1.5	1/4	1/2~13	29.21

MORSE TAPER TAILSTOCK DIE HOLDER SETS

- The set includes tapered Shank, Pin Punch & 4 sizes of Die Holders.
- Completely interchangeable to fit tapered shank with the help of a pin which allows about 1-1/2" travel.
- Easy knock out pin with a pin punch.



Item#	Taper	Die Holder Size	Price (F)
3906-4910	MT 2	13/16,1,1-5/16 & 1-1/2"	57.36
3906-4911	MT 3	13/16,1,1-5/16 & 1-1/2"	61.78

MT TO JT REVOLVING TAILSTOCK ARBORS/ADAPTERS

- Use to support small diameter work where a live center is not practical.
- This is a "live" adapter with smooth, sealed bearings for the tailstock.
- Use it to mate with any Jacob Taper (JT) drill chuck.



Item#	Taper	Drawbar Thread	Price (F)
3906-4922	MT 2 x JT2	M10	42.14
3906-4925	MT2 x JT3	M10	42.14
3901-4910	MT2 x JT33	M10	89.06
3906-4928	MT3 x JT2	M12	42.14
3906-4932	MT3 x JT3	M12	42.14

INTEGRAL SHANK PRECISION KEYLESS DRILL CHUCKS

- Integrated design maximizes rigidity & accuracy.
- Integral shank is more compact than a combined drill chuck and arbor and eliminates the chuck slipping on its arbor.

• Keyless, self tightening design.

Item#	Brand	Morse Taper	Clamping Capacity	T.I.R.	Origin	Price (F)
3701-2490	HHIP	2	1/64~5/16"	.0025"	CHINA	88.85
3701-2499	HHIP	3	1/64~1/2"	.0025"	CHINA	113.38
3701-2502	HHIP	4	1/64~1/2"	.0025"	CHINA	103.93
3701-2624	HHIP	3	1/64~5/8"	.0025"	CHINA	127.78
3701-2627	HHIP	4	1/64~5/8"	.0025"	CHINA	117.13



MT SHANK



Item#	Brand	Morse Taper	Clamping Capacity	T.I.R.	Origin	Price (F)
3701-2500	VERTEX	3	0~1/2"	.0020"	Taiwan	163.53
3701-2501	VERTEX	4	0~1/2"	.0020"	Taiwan	174.35
3701-2625	VERTEX	3	1/8~5/8"	.0020"	Taiwan	174.35
3701-2626	VERTEX	4	1/8~5/8"	.0020"	Taiwan	182.67

^{*} Vertex Hook Tightening Wrench Included

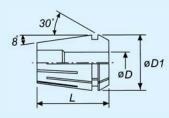
2022 BUY IT NOW

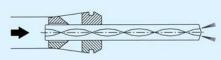
Sale Ends Dec. 29, 2022

ER SPRING COLLETS - COOLANT THRU

- Designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result.
- Collets meet DIN 6499B.

Series	Major Dia.	Overall Length
ER-16	.670''	1.052"
ER-20	.830"	1.230"
ER-25	1.020"	1.390"
ER-32	1.300"	1.578"
ER-40	1.620"	1.810"







BUY IT NOW

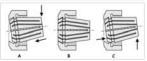
Size/Range	ER-16 Item#	Price (F)	ER-20 Item#	Price (F)	ER-25 Item#	Price (F)	ER-32 Item#	Price (F)	ER-40 Item#	Price (F)
1/8" (.12~.16)	3900-5566	15.96	3900-5583	16.74	3900-5753	20.24	11011111	11100 (1)	3900-5773	24.44
3/16" (.16~.20)	3900-5568	15.96	3900-5584	16.74	3900-5754	20.24	3900-5542	30.19	3900-5774	24.44
7/32" (.20~.236)	3900-5570	15.96	3900-5585	16.74	3900-5755	20.24	3900-5543	30.19	3900-5775	24.44
1/4" (.236~.275)	3900-5572	15.96	3900-5586	16.74	3900-5756	20.24	3900-5544	30.19	3900-5776	24.44
5/16" (.275~.316)	3900-5574	15.96	3900-5587	16.74	3900-5757	20.24	3900-5545	30.19	3900-5777	24.44
11/32" (.316~.354)	3900-5576	15.96	3900-5588	16.74	3900-5758	20.24	3900-5546	30.19	3900-5778	24.44
3/8" (.354~.393)	3900-5578	15.96	3900-5589	16.74	3900-5759	20.24	3900-5547	30.19	3900-5779	24.44
13/32" (.393~.433)			3900-5590	16.74	3900-5760	20.24	3900-5548	30.19	3900-5780	24.44
7/16" (.433~.472)			3900-5591	16.74	3900-5761	20.24	3900-5549	30.19	3900-5781	24.44
1/2" (.472~.511)			3900-5592	16.74	3900-5762	20.24	3900-5550	30.19	3900-5782	24.44
17/32" (.511~.551)					3900-5763	20.24	3900-5551	30.19	3900-5783	24.44
9/16" (.551~.590)					3900-5764	20.24	3900-5552	30.19	3900-5784	24.44
5/8" (.590~.629)					3900-5765	20.24	3900-5553	30.19	3900-5785	24.44
21/32" (.629~.669)							3900-5554	30.19	3900-5786	24.44
11/16" (.669~.708)							3900-5555	30.19	3900-5787	24.44
23/32" (.708~.748)		Collet must	be assemble	ed			3900-5556	30.19	3900-5788	24.44
3/4" (.748~.787)		into collet cl	huck nut befo	re			3900-5557	30.19	3900-5789	24.44
25/32" (.748~.787)		inserting into	o collet chuck	:!					3900-5790	24.44
13/16" (.787~.826)		I							3900-5791	24.44
27/32" (.826~.866)				=	PUNOUT	「≤.0005"			3900-5792	24.44
7/8" (.866~.905)					KONOOI	€.0005			3900-5793	24.44
15/16" (.905~.984)		- F		Ť					3900-5794	24.44
31/32" (.944~.984)		A	в с						3900-5795	24.44
1" (.984~1.020)									3900-5796	24.44

Pro-Series ER SPRING COLLET & RACK SETS- METRIC - AA GRADE 5 MICRON

- Made of high grade alloy tool steel.
- Hardened and precision ground to 44-48HRC.
- Exceeds Federal specifications.
- Inside diameter ground to reach mirrow finish for increased grip force.
- Surface treated to reduce rust and improve hardness.

RUNOUT ≤ .0002"/.005MM

Collet must be assembled into collet chuck nut before inserting into collet chuck!



.670"	1.052"
1.300"	1.578"



METRIC, ER-16 12 PC SET 3901-5375				
\$26158				
1~10MM				



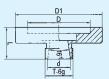
METRIC, ER-32
18 PC SET
3901-5378
\$39296



ER COLLET FIXTURES & ACCESSORIES

ER COLLET FIXTURES-Plain Back

- Mount to your choice of backplate for using on a lathe or could be used as a fixture on a milling table.
- Concentricity: .04mm/ .00016"



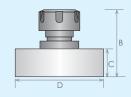




ltem#	Туре	D1	(mm) D	L	No. of Bolt Hole	Bolt Hole Size	Price (F)
3901-5016	ER-16	45	22	25	4	5	85.00
3901-5025	ER-25	102	52	36	3	M10	96.87
3901-5032	ER-32	80	55	42	3	M6	92.15
3901-5033	ER-32	100	72	42	3	M8	94.86
3901-5034	ER-32	130	100	42	3	M8x1.25	97.67
3901-5035	ER-32	160	130	42	3	M8x1.25	185.65
3901-5036	ER-40	100	72	42	3	M8	107.04
3901-5038	ER-40	132	100	42	3	M10	123.73

ER-40 COLLET CHUCK FIXTURE-Direct Mount

- Mount to D1 spindle of lathe.
- Concentricity .0002"



Item#	Туре	D	Mount	В	С	Price (F)
3901-5041	ER-40	125mm	D1-3	54.9mm	23mm	119.64
3901-5042	ER-40	125mm	D1-4	54.9mm	23mm	121.47



HEX / SQUARE ER COLLET BLOCKS

- Block Dimension: 1-3/4 x 1-3/4 x Height.
- For fast set-ups on CNC machines.
- For parallel, square or hex shapes as well as for cross hole drilling at 60°, 90° or 120°.
- Made of tool steel hardened and ground to .0005" flatness, squareness and parallelism.
- Through hole allows for long parts to be machined.
- May be used standing upright.
- Uses standard ER collets.
- ER nut included.





Item#	Shape	ER Collet	Block Height	Price (F)
3900-5123	Square	ER-25	2.7	43.11
3900-5124	Square	ER-32	2.8	42.10
3900-5125	Square	ER-40	3.2	45.95
3900-5127	Hex	ER-25	2.7	43.88
3900-5128	Hex	ER-32	2.8	43.11
3900-5129	Hex	ER-40	3.2	45.95

Jacobs Taper ER COLLET SLEEVES & DRILL CHUCKS

- ER collet sleeves provide rigid & accurate holding of ID tooling. These collet sleeves feature ground shanks and tapers.
- Compatible with standard Jacobs taper spindles.
- Precision ground & hardened for accuracy and precision
- Can be used for coolant-thru applications
- Superior to keyed and keyless drill chucks in concentricity and holding power.



		Female	Nut	SHANK DIA.	(mm) SHANK	OAL	
ltem#	Type	JT Taper	Style	D1	L1	L2	Price (F)
3903-6010	ER-16	JT2	Hex	26	45	65	22.98
3903-6014	ER-20	JT2	Hex	26	45	65	22.98
3903-6018	ER-25	JT2	Spanner	32	46	67	25.73
3903-6022	ER-32	JT2	Spanner	40	40	72	27.57
3903-6028	ER-16	JT3	Hex	32	45	72	22.98
3903-6032	ER-20	JT3	Hex	32	45	72	22.98
3903-6036	ER-25	JT3	Spanner	32	56	77	25.73
3903-6040	ER-32	JT3	Spanner	40	45	77	28.86
3903-6050	ER-16	JT33	Hex	26	38	65	29.41
3903-6054	ER-20	JT33	Hex	26	38	65	29.41
3903-6058	ER-25	JT33	Spanner	32	40	72	32.17
3903-6062	ER-32	JT33	Spanner	40	48	71	34.92
3903-6070	ER-16	JT6	Hex	25	38	65	22.98
3903-6074	ER-20	JT6	Hex	26	38	65	22.98
3903-6078	ER-25	JT6	Spanner	32	38	72	25.73
3903-6082	ER-32	JT6	Spanner	40	50	73	27.57

BUY IT NOW

BT30 SK SLIM COLLET CHUCKS - LYNDEX STYLE

- Dual contacts of taper and flange.
- Increase spindle contact by 53% over standard holders.
- Prevent tools from pulling into spindle.



DIOU (DIOW	bar End	1 M (2X (./5)	1.			1.
Item#	Collet Series	Collet Range	н	С	Gage Depth L (mm)	Price (F)
3901-5490	SK10	0.069~0.393"	1.181~1.969"	1.083"	90	77.68
3901-5492	SK16	0.108~0.630"	1.772~2.756"	1.575"	90	77.68

SK SLIM COLLET CHUCK NUTS - LYNDEX STYLE

- For SK-10 or SK-16 collet chucks.
- Holds SK-10 or SK-16 style collets.
- · Economical.





Item#	Collet Series	Nut Dia.	Nut Length	Nut Thread	Price (F)
3901-5555	SK10	27.1mm	24mm	M21.5x1.0	26.64
3901-5556	SK16	40.0mm	31mm	M32x1.5	26.64

SK10 SK STRAIGHT SHANK SLIM COLLET & CHUCK SET-LYNDEX STYLE

- Dual contacts of taper and flange.
- Increase spindle contact by 53% over standard holders
- Prevent tools from pulling into spindle.
- Slim design for better clearance.
- Max. Speed: 15,000 RPM

RUNOUT ≤ 5 MICRON

- 1PC of Straight Shank SK10 Holder (Shank: 20mm x100mm Length) 8PC of SK10 Collets: 3,4,5,6,7,8,9,&10mm 1PC of Wrench
- · Fitted Case

10PC SET (M3~M10) 3901-5583



Limited Sapply!



CAT40 SK SLIM COLLET CHUCKS - LYNDEX STYLE

- Dual contacts of taper and flange.
- Increase spindle contact by 53% over standard holders.
- Prevent tools from pulling into spindle.
- Balanced to 20,000 RPM.





CAT40 (Drawbar End 5/8" ~11)

RUNOUT ≤ 5 MICRON

Item#	Collet Series	Collet Range	н	С	Depth L (mm)	Price (F)
3901-5504	SK10	0.069~0.393"	1.181~1.969"	1.083"	90	131.38
3901-5506	SK10	0.069~0.393"	1.181~1.969"	1.083"	120	148.50
3901-5523	SK16	0.108~0.630"	1.772~2.756"	1.575"	90	131.38
3901-5525	SK16	0.108~0.630"	1.772~2.756"	1.575"	120	148.50

SK10 & SK16 SK SLIM CHUCK COLLETS-LYNDEX STYLE

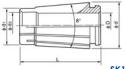
- Vacuum quenching heat treatment to hardness HRC46~50.
- Collet front cone convex platform design reduces the entry of dust and chips increasing longer service life.
- The SK slim collet system features an 8° taper angle versus the 16° taper for ER type collets.
- The SK collet results in greater gripping forces. Note! This results in less range capacity for each collet.
- SK collets sit deeper in the tool holder compared to TG and ER type collet systems. This extra length results in higher accuracy and riaidity.

Collet Dimensions

Series	d	(mm) d1	d2	L
SK10	15.45	12.0	9.50	30.5
SK16	24.52	18.8	15.5	45.0

RUNOUT ≤ 5 MICRON





3901-5401

Item#	Size D	Collapse Range	Price (F)
3901-5401	1/8	0.115~ 0.125"	32.89
3901-5404	3/16	0.168 ~0.188"	33.13
3901-5407	1/4	0.230~0.250"	33.13
3901-5410	5-16	0.293~0.313"	33.13
3901-5414	3/8	0.355~0.375"	33.13



SK16			
Item#	Size D	Collapse Range	Price (F)
3901-5431	1/8	0.112~ 0.125"	33.13
3901-5435	3/16	0.168 ~0.188"	33.13
3901-5439	1/4	0.230~0.250"	34.16
3901-5444	5-16	0.293~0.313"	33.13
3901-5448	3/8	0.355~0.375"	32.89
3901-5452	7/16	0.419~0.438"	33.13
3901-5456	1/2	0.480~0.500"	33.13
3901-5460	9/16	0.543~0.562	33.13
3901-5464	5/8	0.605~0.625"	33.13

BORING HEAD SETS

R8 BORING TOOL SETS -WITH INDEXABLE BORING BARS

- Indexable boring bars take TC_21.5 C6 carbide inserts (included).
- Head features a threaded back for multiple shanks exchangeable.
- Set complete with Boring Head, Boring Shank, Indexable Boring Bars, Torx & L-shape Hex Wrenches.
- Fitted carry case included.
- A micrometer lead screw provides 0.001" direct reading accuracy and ease of adjusting.
- 1 DIV = 0.001 meaning on the 0-50 dial, when turning the dial by 1 division/graduation, the boring head's travel is 0.001" in radius movement, 0.002" in diameter movement; on the 0-100 dial, when turning the dial by 1 division/graduation, the boring head's travel is 0.0005" in radius movement, 0.001" in diameter movement.

C6 GRADE: carbide for steel and alloy steel

	2" HEAD	3" HEAD
Graduations	0.001"/0-50	0.0005"/0-100
Boring Head Thread	1-1/2"-18 T.P.I.	1-1/2"-18 T.P.I.
Offset	5/8"	1"
Crosshole	1/2"	3/4"
Shank Thread		
(Drawbar End)	7/16"-20 UNC	7/16"-20 UNC
Mini. Boring Diameter	0.394"	0.394"
Max. Boring Diameter	5.906"	7.874"
Max. Boring Depth	1.970"	3.150"



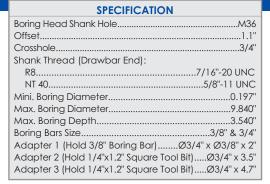
			100	11-0203	3	KO	0	3/4	432.00
BORI	NG BAR	SET INC	LUDED						
Set	Shank	Min. Bore	(Inch) OAL	Bore Depth	Use Insert	Use Torx Wr.	Use Screw	Item #	Price (F)
		7/16	2-3/4	1-1/4					
4	1/2	7/16	3-5/8	2-1/8	TCMT21-51	T-8	M2.5x5.0	1001-0704	117.79
7	'/-	1/2	3	1-1/2	10/11/21-31	1-0	WIZ.5X5.0	1001-0704	111113
		1/2	4	2-1/2					
		7/16	3-3/8	1-3/8					
		7/16	4-1/4	2-1/4					
		1/2	3-5/8	1-5/8					
8	3/4	1/2	4-5/8	2-5/8	TCMT21-51	T-8	M2.5x5.0	1001-0708	291.48
	-/	9/16	3-7/8	1-7/8	1				
		9/16	5	3					
		11/16	4-1/4	2-1/4					
		11/16	5-1/2	3-1/2					

Pro-Series Offset Boring Tool Sets

- Rugged construction for smooth and chatter-free
- Heat treated parts made from SCM steel.
- Feeding quantity cutting will proceed 0.0008" at every scale of 0.0004".
- Set complete with Boring Head, Boring Shank, Boring Bars, Adapters and L-shape Hex Wrenches.
- Dial on head with 0.0005" graduation for accurate
- Fitted durable carry case included.













Item#	Boring Head (Dia.)	Included Shank	No. of Boring Bar/Adapter	Boring Bar Hole Size	N.W. (lbs.)	Price (E)
3800-5945	3.3"	R8	5/3	3/4"	11	735.55
3800-5947	3.3"	NT/NMTB 40	5/3	3/4"	12	742.60





3800-5945 Shown



Pro-Series 58PC STEEL CLAMPING KITS

- Fits milling machines, tables & machines with T-slots.
- Made of powdered casting steel for stronger strength.
- All parts heat treated.
- Plastic rack included.

Item#	Table Slot	Stud Size	Price (F)
3900-2110	3/8"	5/16"~18	75.63
3900-0002	1/2"	3/8"~16	76.83
3900-2112	7/16"	3/8"~16	76.13
3900-0001*	5/8"	1/2"~13	86.29
3900-0003	3/4"	5/8"~11	145.86



5/8" T-Slot 3900-0001 \$8629

Each Kit Contains								
24	4	6	6	6	12	1		
Studs 4 of ea. 3", 4", 5", 6", 7", 8" long	Coupling units		Forged steel step clamps 2 ea. based on stud sets	T-Nuts	Steel step blocks	Wall rack		



* T- SLOT CLEANER & WRENCH INCLUDED

Ultra Quality 58PC STEEL CLAMPING KITS

- Manufactured at world class factory that produces highest quality US brands.
- Made of IC45e steel for stronger strength.
- All parts are case hardend or heat treated to HRC30~40.

Item#	Table Slot	Stud Size	Price (F)
3901-0002	7/16"	3/8"~16	120.00
3901-0006	5/8"	1/2"~13	142.07

Each Kit Contains								
24	4	6	6	6	12			
Studs 4 of ea. 3", 4", 5", 6", 7", 8" long	Coupling units		Forged steel step clamps 2 ea. based on stud sets	T-Nuts	Steel step blocks	Wall rack		



Ultra Quality 5PC STEEL CLAMPING SETS

- · Manufactured at world class factory that produces highest quality US bands.
- Made of IC45e steel for stronger strength.
- All parts are case hardend or heat treated to HRC30~40.

EACH KIT CONTAINS:	Step	Clamp,	Step	Block,	Stud,
	T-slo	t Nut &	Flang	ge Nut.	





Pro-Series 58PC METRIC STEEL CLAMPING KITS

- Fits milling machines, tables & machines with T-slots.
- Made of powdered casting steel for stronger strength.
- All parts heat treated.
- Plastic rack included.

Item#	Table Slot	Stud Size	Price (E)
3901-0008	10mm	M8x1.25P	162.99
3901-0010	12mm	M10x1.5P	162.99
3901-0012	14mm	M12x1.75P	174.08



	Each Kit Contains								
24	4	6	6	6	12	1			
Studs 4 of ea. 3", 4", 5", 6", 7", 8" long	Coupling units	Flange nuts	Forged steel step clamps 2 ea. based on stud sets	T-Nuts	Steel step blocks	Wall rack			



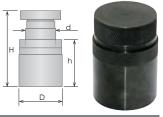
Sale Ends Dec. 29, 2022



SCREW JACKS

ADJUSTABLE SCREW JACKS

- Ideal for setup work where fine adjustment may be required to level work piece or as a replacement for a step block when using a clamp kit.
- Acme threads
- Made from high quality tool steel.

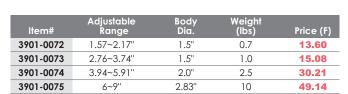


Item#	Adjustable Range	н	h	d	D	Price (F)
3901-0076	23-30mm	30	23	M16	34	6.01
3901-0077	40-60mm	60	40	M16	34	8.03
3901-0078	70-100mm	100	70	Tr30x4	50	19.03
3901-0079	100-140mm	140	100	Tr30x4	50	29.79

Pro-Series SCREW JACKS

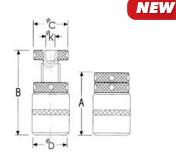
- Ideal for setup work where fine adjustment may be required to level work piece or as a replacement for a step block when using a clamp kit.
- Acme threads
- · Manufactured from toughened steel

MADE IN **TAIWAN**



Pro-Series SCREW JACKS WITH MAGNETS

- Cross type fixture gives best positioning.
- Built-in magnets.
- Easy to clean chips.
- · Adjustable height.









			(mm)			
ltem#	Α	В	C	D	K	Price (F)
3901-0088	51	65	35	40	11.5	55.35
3901-0090	86	116	40	45	11.5	60.12
3901-0092	110	170	45	50	11.5	95.61

"LITTLE GIANT" STYLE JACK SCREW SETS

 For leveling work on planer beds and upright drills or for setting up machinery











ltem#	Lift Range	No. of Pieces	Price (F)
3900-0260	1-1/2 to 2-1/4"	6	23.23
3900-0266	2-1/4 to 3-3/8"	6	30.27

MACHINIST'S JACK

- Tested lifting capacityapproximately 1000 lbs.
- Made of heavy cast steel.
- Adjustable screw and tilting swivel head.
- Adjustable pin and lock nut for permanent positioning.
- 3-4" Range, 1" height adjustment,



Pro-Series 60-140MM JACK SCREW SET

- Suitable for irregular workpieces rapid setting.
- Work clamping & support.
- Adjustable height.
- Ideal for work clamping and fixed support.

10PC Set 60-140mm 3901-0095 \$19500

Includes:

2pcs. 65-90mm jacks 2pcs. 90-140mm jacks

6pcs. 1A, 2A, 3A, 4A, 5A, 6A pads - 1 each pad



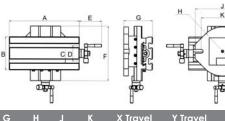
BUYIT NOW

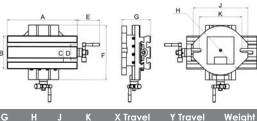
5-1/2 X 12" COMPOUND SLIDE TABLE

- A heavy, rugged slide used in positioning, milling, drilling, microscope viewing and staging.
- Adjustable bases for heavy loads, small jig boring, precision cut-off.
- T-slot Width: 5/8"

Unit: Inch









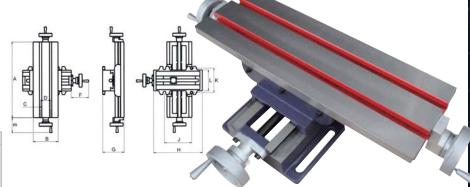
6 x 18-1/2" COMPOUND MILLING TABLE

• Solid cast iron construction.

5/8

Features 12" of longitudinal travel and 7-1/2" of transverse travel, adjustable gibs, dovetailed ways, dependable Acme screws, vernier scales and 9/16"

SPECIFICA	ATIONS
Table Size	18-1/2 x 6"
Table Height	5-1/4"
Footprint	8 x 10-1/2"
T-Slot	9/16"
Mounting Slot	1/2"(2-1/4" on center)
Wt (lbs)	58

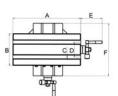


Unit: n	Unit: mm													
Α	В	С	D	E	F	G	Н	J	K	L	X Travel	Y Travel		
473	156	14	62.5	94	108	134	305	170	152	130	270	120		

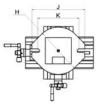
5-1/2 x 12" COMPOUND SLIDE TABLE

Heavy-duty compound slide table features 8" of longitudinal and 5" of transverse travel for versatile milling and drilling. Features 5-1/2" x 12" table, 5/8" slots, and adjustable gibs.

SPECIFICA	TIONS
Table Size	12x5-1/2"
Table Height	5"
T-Slot	5/8"
Wt (lbs)	38







7	U	ni	t:	m	m

<u> </u>												
Α	В	С	D	E	F	G	Н	J	K	X Travel	Y Travel	Weight
300	140	16	65	300	232	123	208	234	182	180	100	18kg

VERTICAL SLIDING MILLING/DRILLING TABLE

- 80mm up down travel distance.
- Solid cast iron construction.
- Table Size: 125 x 100mm/4.92 x 3.94"
- · No. of T-slot: 3
- T-Slot Width: T- Slots is 9.8mm/0.386" wide at the top of the Tee, 16.5mm/0.65" wide at the bottom of the Tee.
- Easy to bolt on a mill table with 2 bolt holes (9mm/0.354" diameter).
- · Weight: 11 lbs.





ROTARY TABLES & ACCESSORIES

4" TILTING ROTARY TABLE

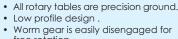
- Table Diameter: 100mm/3.94".
- Horizontal Overall Height: 70mm/2.76"
- Vertial Center Height: 70mm/2.76".
- Gear ratio 36:1.
- T-Slot Width: 7.95mm/5/16"
- Number of T-slot: 4
- 10 second vernier reading.
- One rotation of handle equals 10° on collar.
- · Worm gear is easily disengaged for free rotation.
- Tilts 0~90°
- Base has two bolt holes: 9.8mm/0.386" diameter.







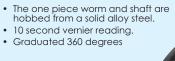
HORIZONTAL & VERTICAL PRECISION ROTARY TABLES



free rotation. • All rotary table parts are strategically positioned for easy access.









ltem#	Table Size (Dia.)	Center Hole	(Inch) Center Height Vert	Horizontal Overall Height	Number of T-slots	T-slot Width	Weight (lbs.)	Price (F)
3906-2306	6"	2M.T.	4.02	3-1/4	4	0.63	31	284.21
3906-2308	8"	3M.T.	5.31	4-1/4	3	0.94	65	484.41

SPECIFICATIONS	VARIATION MAX.
CLAMPING SURFACE FLATNESS	0.0006"
CYLINDER CENTER BORE TIR	0.0008"
TAPER CENTER BORE TIR	0.0008"
SURFACE TO BASE PARALLELISM	0.0008"
SURFACE TO ANGLE FACE SQUARENESS	0.0004"
SURFACE TO CENTER SLOT SQUARENESS	0.0008"

DIVIDING PLATES - For 4~6" Rotary Tables

SET INCLUDES:

Plate A - 15,16,17,18,19,20 Plate B - 21,23,27,29,31,33 Plate C - 37,39,41,43,47,49

Washers.

Crank Handle & Screws

3906-2390



Fits Most of 4~6" Rotary Table

ADJUSTABLE TAILSTOCKS - For Rotary Tables



Fits 4~6" Rotary Table 3906-2406

Fits 6~8" Rotary Table 3906-2407 16

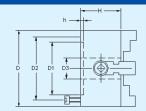
ltem#	Fits Table	Adjustable Height (Min.~Max.)	Weight (lbs.)
3906-2406	4~6"	42~92mm/1.65~3.62"	6.2
3906-2407	6~8"	93~125mm/3.66~4.92"	22.5



3-JAW SELF-CENTERING LATHE CHUCKS-PLAIN BACK

- Body made of high quality semi-steel.Hardened and ground.
- Lathe chuck wrench supplied.

PLAIN BACK





2 SETS OF HARD JAWS (INTERNAL AND EXTERNAL) 1 SET OF MOUNTING SCREWS INCLUDED

	Size		(Inch)				Center	Max.		
ltem#	D	D1	D2	h	Н	Z-d	Hole	RPM	T.I.R	Price (F)
3900-0031	3"	2.17	2.6	0.14	1.97	3-M6	0.630	4000	.003	126.36
3900-0032	4"	2.83	3.3	0.14	2.36	3-M8	0.866	3500	.003	135.58
3900-0033	5"	3.94	4.17	0.14	2.36	3-M8	1.181	3000	.003	158.46
3900-0035	6"	5.15	5.6	0.20	2.56	3-M8	1.575	2500	.003	221.82
3900-0037	8"	6.50	7.1	0.20	2.95	3-M10	2.559	2000	.004	275.00
3900-0038	10"	8.11	8.9	0.20	3.15	3-M12	2.756	1600	.004	392.70
3900-0040	12"	10.71	11.65	0.48	3.54	3-M16	3.937	1200	.005	722.15
3900-0039	15"	12.80	13.75	0.24	6.13	3-M16	5.709	1200	.005	985.60



Pro-Series 3-JAW FRONT-MOUNT SELF-CENTER CHUCKS-PLAIN BACK

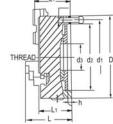
- Easily mount on table, dividing head, fixture, or indexer.
- Lathe chuck wrench supplied.

MADE IN

Front mount chucks are designed to be used with rotary tables dividing head and other devices where back mounting chucks can not be used.

With One Set of External Jaws & Internal Jaws









Br	an	d:	V	F	B.	ΓF	Y

		Chuck Size		(Inch)	Center				Thread	Gripping	Range	
Item	n#	D (Inch/mm)	d1	d2	Hole d3	L	L1	h	Z-d	O.D. (mm)	I.D.(mm)	Price (F)
3800-5	819	3/80	2.60	2.17	0.63	2.6	2.0	0.138	3-M6	2~70	24~64	179.97
3800-5	820	4/100	3.31	2.83	0.87	2.9	2.2	0.138	3-M8	3~90	32~84	188.81
3800-5	821	5/130	4.53	3.94	1.18	3.1	2.2	0.138	3-M8	3~110	35~100	215.38
3800-5	822	6/160	5.59	5.12	1.77	3.7	2.6	0.197	3-M10	3~160	48~150	309.79
3800-5	823	8/200	7.09	6.50	2.75	4.3	3.0	0.197	3-M12	4~180	56~170	389.43
3800-5	824	10/250	8.86	8.11	3.15	4.7	3.2	0.197	3-M12	6~220	70~250	534.01

Harlingen® 3-JAW SELF-CENTERING LATHE CHUCKS -PLAIN BACK

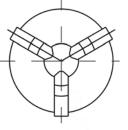


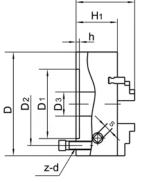
• 2 sets of jaws Lathe chuck wrench and 1 set of mounting screws included

See page 284 for Advantages!







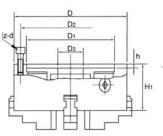


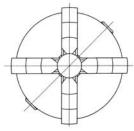
Item#	D	D1	D2	D3	Н	Н1	h	Wrench S	Screw	Max. Input Torque Nm	Max. Speed r/min	Weight (Lbs.)	Price (F)
9712-1105	3"	2.17"	2.6"	0.63"	2.6"	1.97"	0.14"	0.31"	3-M6	40	4000	4.2	133.41
9712-1106	4"	2.83"	3.3"	0.87"	2.93"	2.17"	0.14"	0.31"	3-M8	60	3500	7.1	144.27
9712-1107	5"	3.74"	4.25"	1.18"	3.3"	2.28"	0.16"	0.39"	3-M8	100	3000	11	163.35
9712-1108	6"	5.12"	5.6"	1.57"	3.74"	2.6"	0.2"	0.39"	3-M8	160	2500	19.4	236.66
9712-1109	8"	6.5"	7.09"	2.56"	4.29"	2.95	0.2"	0.47"	3-M10	160	2000	34.2	290.68

SELF CENTERING LATHE CHUCKS

4-JAW SELF-CENTERING SCROLL CHUCKS - PLAIN BACK

- Made of high grade tool steel.
- Universal scroll chucks.
- 2 sets of solid jaws included (ID &OD).
- Chuck wrench included.





PLAIN BACK





	Chuck Size			(Inch)				Center Hole	Max.		
ltem#	D	D1	D2	h	H1	Н	Z-d	D3	RPM	T.I.R.	Price (F)
3900-0423	3	2.165	2.598	.14	1.97	2.6	3-M6	0.630	4000	.003	171.09
3900-0424	4	2.835	3.307	.14	2.17	3.0	3-M8	0.866	3500	.003	178.59
3900-0425	5	3.740	4.252	.16	2.28	3.3	3-M8	1.181	3000	.003	200.60
3900-0426	6	5.118	5.591	.20	2.56	3.8	3-M8	1.772	3000	.003	270.18
3900-0428	8	6.495	7.087	.20	2.95	4.5	3-M10	2.559	2000	.004	403.68
3900-0430	10	8.110	8.898	.20	3.54	4.9	3-M12	3.150	1600	.005	447.23
3900-0432	12	10.236	11.220	.24	3.74	5.6	3-M16	3.937	1200	.005	879.26
3700-0432	12	10.236	11.220	.24	3./4	5.6	3-1/110	3.73/	1200	.005	0/9.

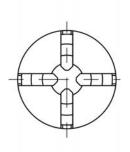
Harlingen® 4-JAW SELF-CENTERING LATHE CHUCKS -PLAIN BACK



- 2 SETS OF JAWS (ID & OD)
- LATHE CHUCK WRENCH AND
 SET OF MOUNTING SCREWS INCLUDED







ltem#

3900-4701

3900-4710

3900-4702

3900-4711

3"

3"

4"

4"

0.75"

3-Jaw

4-Jaw

3-Jaw

4-Jaw

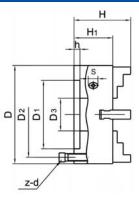
158.06

211.73

195,94

219.71

0.950"



See page 284 for Advantages	See	page	284 fe	or Ad	vani	lages
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Item#	D	D1	D2	D3	н	H1	h	Wrench \$	Screw	Weight (Lbs.)	Price (F)
9713-2110	3"	2.17"	2.6"	0.63"	2.6"	1.97"	0.14"	0.31"	3-M6	4.4	249.62
9713-2101	4"	2.83"	3.31"	0.87"	2.87"	2.11"	0.14"	0.31"	3-M8	6.6	249.62
9713-2102	5"	3.74"	4.25"	1.18"	3.31"	2.28"	0.16"	0.39"	3-M8	11	282.49
9713-2103	6"	5.12"	5.59"	1.57"	3.74"	2.56"	0.20"	0.39"	3-M8	19.4	388.08

5C MOUNT SELF-CENTERING 3 & 4-JAW LATHE CHUCKS



- Quick set up in fixtures and 5C spindles.
- Supplied with chuck wrench.
- T.I.R. 0.0006".
- Chuck jaws are self centering, scroll type.
- 5C adapter with standard internal and external threads.

.062~3.00"

2 SETS OF SOLID STEEL JAWS (INTERNAL AND EXTERNAL)

(,			
ECIFICATION	Chuck Size	Outside Diameter (Clamp Range)	Inside Diameter (Jam Range)	Hole thru. 5C Adapter	Hole throu. Chuck
3-JAW	3"	0.079~2.480"	0.964~2.756"	0.75"	0.630"
0-3/411	4"	0.079~3.150"	1.181~3.543"	0.75"	0.866"
4-JAW	3"	.062~2.50"	.700~2.50"	0.75"	0.800"

.900~3.50"

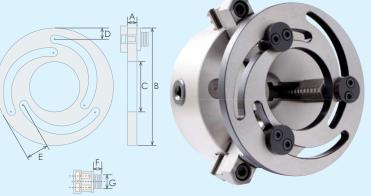
MADE IN

Taiki JAW BORING RINGS - For Boring Soft & Round Jaws

How to install:

- Place the jaw boring ring over our chuck and locate the bring ring pins in the counterbore of your chuck jaws
- 2. Turn the jaw boring ring until snug
- 3. Activate your jaws
- The jaw boring ring will apply equal pressure on all jaws, allowing for a consistent bore.
- Since no discs or bungs are used to clamp jaws, illipographics as a Attaches to front of jaws without tools, compensating for "jaw lift". Since no discs or bungs are used to clamp jaws, through boring of jaws is possible.
- · Suitable for CNC lathe.
- · Ideal for machining soft jaws.
- · Applies equal pressure on all jaws.

	Chuck	Dime	ensions		(In	ch)			
Item#	Size	Α	В	С	Ď	Ė	F	G	Price (E)
3900-4649	4''	.47	4.5	1.34	.47	1.10	.35	.51	206.24
3900-4650	5"	.47	5.5	2.36	.47	1.10	.35	.51	206.24
3900-4651	6"	.47	6.6	3.15	.47	1.26	.35	.65	228.63
3900-4654	8''	.47	8.6	4.53	.59	1.42	.35	.73	255.66
3900-4656	10"	.47	10.2	5.91	.67	1.57	.35	.73	283.18
3900-4658	12"	.59	12.4	7.40	.83	1.97	.35	.96	490.08
3900-4660	15"	.79	15.0	9.06	.91	2.05	.63	1.22	821.51



Taiki TL-JAW BORING RINGS - For Boring Soft & Round Jaws

- Suitable for CNC lathe.
- Ideal for machining soft jaws.
- Attaches to front of jaws without tools, compensating for "jaw lift".
- Applies equal pressure on all jaws.
- Since no discs or bungs are used to clamp jaws, through boring of jaws is possible.



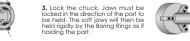






adjust the Boring Rings to fit into the boll holes of the soff jaws. Then, rotate the body of the Boring Rings until sung, pulling the jaws rigid in the opposite direction of the clamping longe (away from the part to be





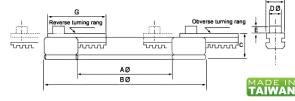


Chuck the part. If these steps are followed correctly, the part will be true within . 0002" T.I.R.



How to install:

- Place the jaw boring ring over our chuck and locate the bring ring pins in the counterbore of your chuck jaws
- 2. Turn the jaw boring ring until snug
- 3. Activate your jaws
- The jaw boring ring will apply equal pressure on all jaws, allowing for a consistent bore.



	Chuck	l	Dimensions (Inc	h)			Jaw Stroke	Max. Speed	
Item#	Size	Α	В	C	D(dia)-E	F-G	(ea.)	(RPM)	Price (E)
3900-4666	5,6,8"	3.94	6.7	1.02	.512~.28	.748~2.4	7.4	800	518.29
3900-4668	6,8,10"	4.92	7.9	1.02	.642~.32	.748~2.4	7.4	700	572.91
3900-4669	8,10,12"	6.30	9.8	1.22	.720~.32	.945~3.2	8.5	600	682.58

Taiki JAW NUTS & SCREWS

FOR USE ON: Kitagawa, Samchully, Strong, MMK SMW Autoblok Howa & Hitachi-Seiki Chucks



a		RITICAL DI					Mind	I NII			
Chuck Size Inch	Heel Height M	Groove Width D	Screw Size	Hole Space F	Nut Height B	Nut Width A	Nut Length C	Jaw Nut (set of 3) Item#	Price (F)	Screw Item#	Price (F)
5	0.197	0.393 (10mm)	M8x20	0.551	0.571	0.551	0.965	3900-4780	100.47	3900-4796	2.09
6	0.295	0.472 (12mm)	M10x25	0.787	0.728	0.689	1.417	3900-4781	100.47	3900-4797	2.09
6	0.276	0.472 (12mm)	M10x25	0.787	0.866	0.689	1.437	3900-4788	103.50	3900-4797	2.09
8	0.335	0.551 (14mm)	M12x30	0.984	0.807	0.807	1.831	3900-4782	112.00	3900-4798	2.62
8	0.394	0.551 (14mm)	M12x30	0.984	1.024	0.807	1.890	3900-4789	119.31	3900-4798	2.62
8	0.394	0.629 (16MM)	M12X30	1.181	0.807	0.807	1.890	3900-4782	112.00	3900-4798	2.62
10	0.335	0.629 (16mm)	M12x30	1.181	0.846	0.886	2.008	3900-4783	133.27	3900-4798	2.62
10	0.394	0.629 (16mm)	M12x30	1.181	1.024	0.886	2.165	3900-4790	137.80	3900-4798	2.62
10	0.394	0.629 (16mm)	M12x30	0.984	0.846	0.886	2.008	3900-4786	331.32	3900-4798	2.62
12	0.453	0.827 (21mm)	M16x40	1.181	1.102	1.102	2.185	3900-4784	173.76	3900-4799	3.42
12	0.531	0.709 (18mm)	M14x40	1.181	1.319	1.043	2.185	3900-4791	178.98	3900-4800	3.42
15	0.650	0.866 (22mm)	M20x60	1.693	1.791	1.319	3.150	3900-4786	331.32	3900-4801	3.14
15	0.748	1.004 (25.5mm)	M20x55	1.693	1.535	1.378	3.150	3900-4793	348.22	3900-4802	3.14
15	0.654	0.945 (24mm)	M16x40	1.181	1.719	1.280	2.363	3900-4795	355.04	3900-4799	3.42

Sale Ends Dec. 29, 2022

CONCENTRICITY CHECKERS

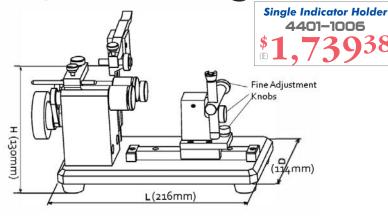
UNIVERSAL CONCENTRICITY GAGE/CHECKERS

SINGLE INDICATOR HOLDER



- Concentricity Gage allows you to measure the runout of parts internal and external.
- Diameter Capacity: 0.157~0.980"(4~25 mm)
- · Length Capacity: 4"
- Device Dimension: 216 (length) X114 (width) X 130mm (height)
- Weight: 10.90 lbs.
- Accuracy: 0.00012"/ 0.003mm.
- Directional Drive Hand Wheel pushes the parts into the stop for accurate repeatable readings with equal pressure.
- Two position wheels made from solid steel
- Precision Drive Wheel has a perfect ratio to push the parts down.
- Ultra high precision ball bearings provide friction free movement.
- Heavy duty base mounted fine adjustable sliding test indicator holder. Will accept test indicator with dovetail slot.
- Adjustable mechanical arm stop holds the arm up for one handed operation.
- Two master setting pins included: 4 & 10mm diameter

Accuracy: 0.00012"/ 0.003mm.







SHOWN WITH OPTIONAL INDICATOR(not included)

C



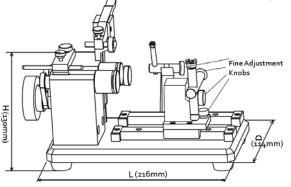
DOUBLE INDICATOR HOLDER



Double Indicator Holder 4401-1008 \$1,96075



.0005 GRADUATION 0-0.03" Range Test Indicator 4400-0010 \$5 1 12







BUY IT NOW

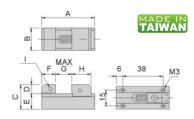
STAINLESS STEEL VISE - 21MM Jaw Width



- A delicate vise suitable for clamping precision workpieces.
- Made of stainless steel SUS440 classified as corrosion & heat resistant for FDM. grinding and other applications which is sensitive to rust.
- Hardened and precision ground.
- Hardness: HRC 48~55°

SQUARE & PARALLEL .00012"

21MM JAW 3901-2721

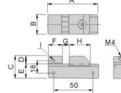


Jaw Width B	Jaw Depth D	Jaw Openning G	Vise Height C	Vise Length A	E	F	н	Threaded Hole I	Wt. (Lbs)
21mm	8.5mm	15mm	23.5mm	50mm	15mm	13mm	18mm	M3	0.4

STAINLESS STEEL VISES - 25MM Jaw Width

- A compact precision vise suitable for small precision workpieces, apply by wrench.
- Made of stainless steel SUS440 classified as corrosion & heat resistant for EDM, grinding and other applications which is sensitive to rust.





25MM JAW 3901-2725

25MM With Step Jaw 3901-2728

- · Hardened and precision ground.
- Hardness: HRC 48~55°



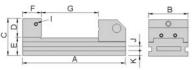
SQUARE & PARALLEL .00012"

Olili. Illilli											
		Jaw Width	Jaw Depth	Jaw Openning	Vise Height	Vise Length				Threaded Hole	Wt.
Item #	Step Jaws	В	D .	G	C	Α	E	F	Н		(Lbs)
3901-2725	No	25	12	20	32	65	20	20	25	M4	0.6
3901-2728	Yes	25	12	20	32	65	20	20	25	M4	0.6

STAINLESS STEEL TOOLMAKERS VISE - 73MM Jaw Width

- Made of stainless steel SUS440 classified as corrosion & heat resistant for EDM, grinding and other applications which is sensitive to rust.
- · Hardened and precision ground.
- Hardness: HRC 48~55°

SQUARENESS < 0.0002" PARALLELISM < 0.00012"



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Jaw Width	Jaw Depth	Jaw Openning	Vise Height	Vise Length			Wt.
В	D	G	C	A	E	P	(Lbs)
73mm	35mm	100mm	70mm	190mm	35mm	50mm	9.5



STAINLESS STEEL TOOLMAKER'S & EDM VISE - 50mm or 72mm Jaw Width

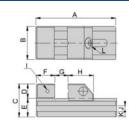
- Suitable for high precision grinding, milling and EDM.
- Made of stainless steel SUS440 classified as corrosion & heat resistant for EDM, grinding and other applications which is sensitive to rust.
- · Hardened and precision ground.
- Hardness: HRC 48~55°

SQUARE & PARALLEL .00012"

50MM JAW 3901-2732

72MM JAW 3901-2734





Unit: mm

Item #	Jaw Width B	Jaw Depth D	Jaw Openning G	Vise Height C	Vise Length A	Е	F	н	Threaded Hole I	Slot J	K	Wt. (Lbs)
3901-2732	50	25	75	53	140	28	25	40	M6	6 W x 5 D	8.5	3.3
3901-2734	72	30	100	62	180	32	35	45	M6	8 W x 7 D	9.0	6.6

Sale Ends Dec. 29, 2022



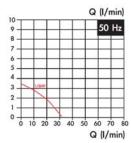


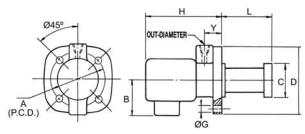
🔼 VEFTEX 1/8 HP UNDER WATER COOLANT PUMP

 This pump is high quality with anti-rust treatment, manufactured with high grade materials and inspected in five steps by a precision electronic device.





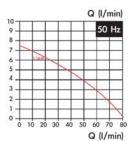




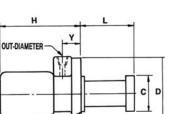
Power	Length (L)	Pumping 1mmin	g Water 2mmin	Α	В	С	D	G	н	Υ	Out Diameter	Weight
1/8HP	150	27-28 L	25-26 L	128±0.2	105	Ø90	Ø150	Ø8	160	19	PT 3/8"	13 lbs.

■ VEFCEX 1/4 HP UNDER WATER COOLANT PUMP

 This pump is high quality with anti-rust treatment, manufactured with high grade materials and inspected in five steps by a precision electronic device.







CERTIFIED

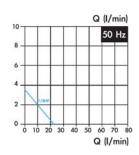
	Lenath	Pumpin	a Water								Out	
Power	(L)			Α	В	С	D	G	Н	Υ	Diameter	Weight
1/4HP	200	74-76 L	71-72 L	158±0.2	125	Ø122	Ø180	Ø8	180	26	PT 1/2"	25 lbs.

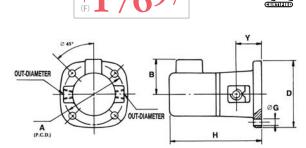


MERTEX 1/8 HP SELF PRIMING COOLANT PUMP

(P.C.D.)

 This pump is high quality with anti-rust treatment, manufactured with high grade materials and inspected in five steps by a precision electronic device.





3012-8128



	Pumpin	ng Water							In	Out	
Power	1mmin	2mmin	Α	В	D	G	Н	Υ	Diameter	Diameter	Weight
1/8HP	26-28 L	24-25 L	140±0.2	105	165	Ø8	195	50±0.5	PT 3/8"	PT 3/8"	13 lbs.