

# SCM AMERICA

HIGH QUALITY PRODUCTS & PERFORMANCE AT COMPETITIVE PRICES

ISO 9001  
BUREAU VERITAS  
Certification



2007



LLAMBRICH USA

ROSCAMAT®




**WELER CHUCKS**  
Toolholders, Reduction Sleeves & Accessories

**PAGES**  
**2 - 5**




**TAPPING SOLUTIONS**  
Syncrolize CAT - BT  
HSK - VDI - Straight

**PAGES**  
**17 - 20**


**ER COLLET CHUCKS**  
CAT - BT - HSK  
VDI - Straight

**PAGES**  
**6 - 9**



**TAPPING SOLUTIONS**  
Modular Systems

**PAGE**  
**21**

**ER COLLETS**  
ER11 - ER16 - ER20  
ER25 - ER32 - ER40

**PAGES**  
**10 - 11**



**TAPPING SOLUTIONS**  
Tension & Compression  
CAT - BT - Morse - VDI - HSK

**PAGES**  
**22 - 23**




**DA COLLETS & HOLDERS**  
DA100 - DA180  
DA200 - DA300

**PAGE**  
**12**



**TAPPING SOLUTIONS**  
Rigid Tapping  
CAT - BT - HSK - Morse

**PAGE**  
**24**




**ENDMILL HOLDERS**  
CAT - BT - HSK - Metric

**PAGES**  
**13 - 15**



**TAPPING SOLUTIONS**  
Reverse Tapping

**PAGE**  
**25**




**SHELLMILL & JACOBS  
TAPER HOLDERS**  
CAT - BT - Metric

**PAGE**  
**16**



**TAPPING SOLUTIONS**  
Bilz Style Adapters

**PAGES**  
**26 - 27**



**EDP# SCM-CAT307 • APRIL 1, 2007**  
**Terms & Conditions**

**Terms** Net 30 days - 1% 10 days. Prices Subject to change without notice. **Delivery** All shipments are F.O.B. Mt. Vernon, Ohio USA **Claims** All claims must be made within five (5) days from the receipt of the merchandise. Please submit shortage and/or damage claims request with shipper and invoice number to expedite the claim settlement. Damages incurred with commercial shipments must be claimed from the common carrier. **Return Policy** In order to process a return a request for a RGA# must be made from our North American offices in Mt. Vernon, Ohio. Items shipped back without the RGA# identified on the outside of the box will be refused for delivery. A copy of the original invoice must accompany the merchandise in the package. Returns must be shipped back prepaid freight unless we erred in filling your order. Non-stock items and special sale items will not be accepted for return under any condition. We reserve the right to inspect and determine if the item has been abused or misused. If the item can not be returned to stock and sold in new condition we will not accept the return. All returns are subject to a 20% restocking charge.





**DRILL CHUCKS  
SUPER PRECISION**  
Hexa System, CAT - BT - HSK  
VDI - R8 - Morse - Straight  
**PAGES**  
**28 - 29**



**DRILL CHUCKS  
KEYLESS**  
JKP - JKT - JK  
**PAGES**  
**30 - 31**



**DRILL CHUCKS  
KEYED**  
CBB - CY - CL - C Inox - Keys  
**PAGES**  
**32 - 33**




**DRILL CHUCK  
ACCESSORIES**  
Arbors - Sleeves - Drifts  
**PAGE**  
**34**



**LIVE CENTERS**  
High Precision  
Standard & Extended  
**PAGE**  
**35**



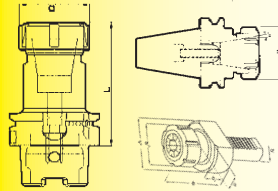
**TAPPING ARMS**  
Electric Machines & Modules  
Series 6000 & 9001  
**PAGE**  
**36**




**TAPPING ARMS**  
Pneumatic Machines & Modules  
Series 200, 400 & 500  
**PAGES**  
**37 - 39**



**TAPPING ARMS**  
Tables - Lifters - Clamps  
**PAGES**  
**40 - 41**



**TECH INFO**  
Tapping & Milling  
**PAGES**  
**42 - 44**



**RETENTION KNOBS**  
CAT - BT - Sockets  
**PAGE**  
**45**



**TOOL HOLDER  
ACCESSORIES**  
Storage & Fixturing  
**PAGE**  
**46**



**KIT CONVENIENCE &  
TOOLING PACKAGES**  
CAT 40 - CAT 50  
**PAGES**  
**47 - 49**

**Product Performance Test Policy** Many of the products that we sell are unique and new to our market place. To allow the customer to prove our claims to themselves we will allow for a Guaranteed 30 Day Trial Offer on our high performance products. This offer may be extended 1 time for an additional 30 days upon your request and our acceptance. In order to participate in our Guaranteed 30 Day Trial Offer you must submit that information on your purchase order. We reserve the right to accept or refuse this offer after determining if the product is best suited for the application. To return a guaranteed product you must follow our return policy and the product must be in like new condition and not show signs of misuse or abuse. All parts, instructions, and accessories must accompany the return. **Safety Warning** SCM-America products are engineered and manufactured with safety in mind. The heat treat specifications exceed or meet all standards. All of the products manufactured by SCM-America are designed to perform without any undue safety issues when caution, common sense and proper safety practices are followed. The use of cutting tools and toolholders is safe when proper application and protection guidelines are observed. Even when these proper precautions are taken, it is possible that fragments of a cutting tool, cutting material, or holding device may be thrown at a very high rate of speed and have potential to cause severe bodily harm. It is imperative that general safety precautions and safety glasses be used at all times.

# WELER CHUCKS

Why is the Weler Chuck the Best Choice?



## WHY THE WELER CHUCK?

The Weler Chuck is the most versatile chuck available in the market place today!

It is recommended for precision finishing, drilling, reaming, thread milling, and rough milling in axial and radial applications.

The Weler Chuck can accept any cylindrical shank tool with or without flats or notches and maintain the high clamping force.

Axial adjustment positioning of the tool can be made with the positive stop set screw.

The Weler Chuck is designed for the nose nut to be tightened to the positive stop.

THERE IS NO GUESSING!

Call today for a 30 day guarantee demonstration in your plant to see for yourself.



## Designed for Milling & Drilling



**Coolant Thru Capabilities**

Rated up to the maximum capability of 1,500 Form B Available

Balanced to G2.5 20.000 RPM's

No Needle Bearings

Slim Nose Design



.0001" Runout @ 2-1/2 x Diameter

Screws to a Positive Stop No Guessing!

Over 380 FT/LB of Clamping Force

### Technical Info

Weler Size	Concentricity 2.5xØ		Clamping Forces	
	mm	inch	Nm	ft/lbs
20mm	0.003	0.0001"	520	384
32mm	0.004	0.0002"	600	443
1 1/4	0.004	0.0002"	600	443

The typical bearing milling chuck has 150-200 ft/lbs of clamping force and .001 to .002 of runout. Good only for milling. The needle bearing milling chuck does not have the concentricity for drilling.

The typical hydraulic chuck has 200-300 ft/lbs of clamping force and .0001 to .0002 of runout. Good only for drilling and very light milling. Heavy radial forces will damage the hydraulic holders bladder which is costly to repair. The only product available in the market place that has better clamping force and a runout combination than the Weler Chuck is the shrink fit system. The Weler Chuck is the only system that has sufficient clamping forces for heavy milling and the concentricity for drilling operations along with the flexibility to hold multiple shank sizes.

### Certified Accuracy



All Weler Chucks are **100% Inspected**, assigned a serial number and values are recorded on each Certificate.

### Maintenance

To ensure the proper performance and maximum life of the Weler Chuck, grease must be applied as needed to the threads and taper that the tapered locking nut is fastened to. This will prevent the occurrence of any gaulding from the metal on metal contact. This is the only maintenance required as there are no wear parts during the normal recommended use of the Weler Chuck. One tube of grease is included with every chuck.



### CAT 40 - CAT 50 Form AD (Coolant Thru the Shank)

EDP	Part Number	Taper	d	D	D1	L	L1
15021B	520000/40CAT	40	20mm	1.81	1.929	3.54	0.906
15023B	532000/40CAT	40	32mm	2.64	2.677	4.13	1.299
51001B	531700/40CAT	40	1-1/4"	2.64	2.677	4.13	1.299
15029B	520000/50CAT	50	20mm	1.81	1.929	3.54	0.906
15031B	532000/50CAT	50	32mm	2.64	2.677	4.05	1.299
15066B	531700/50CAT	50	1-1/4"	2.64	2.677	4.05	1.299

### CAT 40 - CAT 50 Form B (Coolant Thru the Flange)

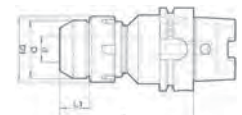
EDP	Part Number	Taper	d	D	D1	L	L1
51002B	520000/40CAT-B	40	20mm	1.81	1.929	3.54	0.906
51003B	532000/40CAT-B	40	32mm	2.64	2.677	4.13	1.299
51004B	520000/50CAT-B	50	20mm	1.81	1.929	3.54	0.906
51005B	532000/50CAT-B	50	32mm	2.64	2.677	4.05	1.299

### MAS 403 BT

EDP	Part Number	Taper	d	D	D1	L	L1
15067B	520000/30BT	30	20mm	1.81	1.947	3.54	0.306
15037B	520000/40BT	40	20mm	2.64	1.929	3.54	0.906
15039B	532000/40BT	40	32mm	2.64	2.677	3.74	1.299
15045B	520000/50BT	50	20mm	1.81	1.929	3.94	0.306
15047B	532000/50BT	50	32mm	2.64	2.677	4.33	1.299

### HSK

EDP	Part Number	Taper	d	D	D1	L	L1
15137B	520000/H40E	40E	20mm	1.81	1.929	3.66	0.906
15068B	520000/H50A	50A	20mm	1.81	1.929	3.94	0.906
15138B	520000/H50E	50E	20mm	1.81	1.929	4.00	0.906
15005B	520000/H63A	63A	20mm	1.81	1.929	3.98	0.906
15007B	532000/H63A	63A	32mm	2.64	2.677	4.45	1.299
15012B	520000/H63E	63E	20mm	1.81	1.929	3.82	0.906
15014B	532000/H63E	63E	32mm	2.64	2.677	4.45	1.299
15105B	520000/H100A	100A	20mm	1.81	1.929	4.33	1.299
15164B	532000/H100A	100A	32mm	2.64	2.677	4.33	1.299



**EXCELLENT Choice FOR**  
**MILLING, INDEXABLE, DRILLING,**  
**REAMING & THREADMILLING**



# WELER CHUCK

Hi-Pressure Coolant Nuts,  
Wrenches & Extractors



**RATED  
UP TO  
1,500 PSI**

## Hi-Pressure Nuts

EDP	Part Number	Size
15281A	520020L	20mm
15282A	532020L	32mm



## Weler Wrenches

EDP	Part Number	Description	Size
15048A	520011	Weler Wrench	20mm
15904A	532011	Weler Wrench	32mm



## Spanner Wrenches

EDP	Part Number	Description	Size
15280A	M-52-03	Adjustable Spanner Wrench for Hi-Pressure Weler Nut	20mm & 32mm



20mm All Sizes



Minimum 1/4" or 6mm

## Reduction Sleeve Extractor

EDP	Part Number	Reduction Sleeve Size
15179A	520016	20mm
15178A	532016	20mm & 32mm

## Weler Grease

EDP	Part Number	Description
15069A	500023	Grease

## 20mm Hi-Pressure Coolant Caps (inch)

EDP	Part Number	Size	ID
15243A	520012-3/16 L	20mm	3/16
15244A	520012-1/4 L	20mm	1/4
15245A	520012-5/16 L	20mm	5/16
15246A	520012-3/8 L	20mm	3/8
15247A	520012-7/16 L	20mm	7/16
15248A	520012-1/2 L	20mm	1/2
15249A	520012-5/8 L	20mm	5/8

## 20mm Hi-Pressure Coolant Caps (metric)

EDP	Part Number	Size	ID
15260A	520012-4 L	20mm	4
15261A	520012-5 L	20mm	5
15262A	520012-6 L	20mm	6
15263A	520012-8 L	20mm	8
15264A	520012-10 L	20mm	10
15265A	520012-12 L	20mm	12
15266A	520012-14 L	20mm	14
15267A	520012-15 L	20mm	15
15268A	520012-16 L	20mm	16
15269A	520012-18 L	20mm	18
15283A	520012-20 L	20mm	20

## 32mm Hi-Pressure Coolant Caps (inch)

EDP	Part Number	Size	ID
15250A	532012-1/4 L	32mm	1/4
15251A	532012-5/16 L	32mm	5/16
15252A	532012-3/8 L	32mm	3/8
15253A	532012-7/16 L	32mm	7/16
15254A	532012-1/2 L	32mm	1/2
15255A	532012-5/8 L	32mm	5/8
15256A	532012-3/4 L	32mm	3/4
15257A	532012-7/8 L	32mm	7/8
15258A	532012-1 L	32mm	1

## 32mm Hi-Pressure Coolant Caps (metric)

EDP	Part Number	Size	ID
15270A	532012-6 L	32mm	6
15271A	532012-8 L	32mm	8
15272A	532012-10 L	32mm	10
15273A	532012-12 L	32mm	12
15274A	532012-14 L	32mm	14
15275A	532012-16 L	32mm	16
15276A	532012-18 L	32mm	18
15277A	532012-20 L	32mm	20
15278A	532012-24 L	32mm	24
15284A	532012-32 L	32mm	32

### 20mm Reduction Sleeves (inch)

EDP	Part Number	D	d	L
15050A	9020.20.1/8	20mm	1/8	1.96"
15051A	9020.20.3/16	20mm	3/16	1.96"
15052A	9020.20.1/4	20mm	1/4	1.96"
15053A	9020.20.5/16	20mm	5/16	1.96"
15049A	9020.20.3/8	20mm	3/8	1.96"
15054A	9020.20.7/16	20mm	7/16	1.96"
15055A	9020.20.1/2	20mm	1/2	1.96"
15056A	9020.20.5/8	20mm	5/8	1.96"

### 20mm Reduction Sleeves (metric)

EDP	Part Number	D	d	L
15070A	9020.20.03	20mm	3mm	1.96"
15071A	9020.20.04	20mm	4mm	1.96"
15072A	9020.20.05	20mm	5mm	1.96"
15073A	9020.20.06	20mm	6mm	1.96"
15074A	9020.20.08	20mm	8mm	1.96"
15075A	9020.20.10	20mm	10mm	1.96"
15095A	9020.20.11	20mm	11mm	1.96"
15076A	9020.20.12	20mm	12mm	1.96"
15077A	9020.20.14	20mm	14mm	1.96"
15089A	9020.20.15	20mm	15mm	1.96"
15078A	9020.20.16	20mm	16mm	1.96"
15090A	9020.20.18	20mm	18mm	1.96"

### 1-1/4" Reduction Sleeves

EDP	Part Number	D	d	L
15300A	9020.1-1/4.1/4	1-1/4	1/4	2.48"
15301A	9020.1-1/4.5/16	1-1/4	5/16	2.48"
15302A	9020.1-1/4.3/8	1-1/4	3/8	2.48"
15303A	9020.1-1/4.1/2	1-1/4	1/2	2.48"
15304A	9020.1-1/4.5/8	1-1/4	5/8	2.48"
15305A	9020.1-1/4.3/4	1-1/4	3/4	2.48"
15306A	9020.1-1/4.7/8	1-1/4	7/8	2.48"
15307A	9020.1-1/4.1	1-1/4	1	2.48"

### 32mm Reduction Sleeves - (inch)

EDP	Part Number	D	d	L
15057A	9020.32.1/4	32mm	1/4	2.48"
15058A	9020.32.5/16	32mm	5/16	2.48"
15065A	9020.32.3/8	32mm	3/8	2.48"
15059A	9020.32.7/16	32mm	7/16	2.48"
15060A	9020.32.1/2	32mm	1/2	2.48"
15061A	9020.32.5/8	32mm	5/8	2.48"
15062A	9020.32.3/4	32mm	3/4	2.48"
15063A	9020.32.7/8	32mm	7/8	2.48"
15064A	9020.32.1	32mm	1	2.48"

### 32mm Reduction Sleeves - (metric)

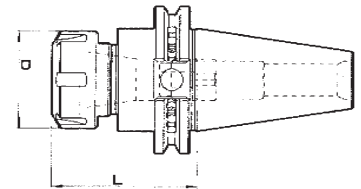
EDP	Part Number	D	d	L
15079A	9020.32.06	32mm	6mm	2.48"
15080A	9020.32.08	32mm	8mm	2.48"
15081A	9020.32.10	32mm	10mm	2.48"
15082A	9020.32.12	32mm	12mm	2.48"
15083A	9020.32.14	32mm	14mm	2.48"
15084A	9020.32.16	32mm	16mm	2.48"
15085A	9020.32.18	32mm	18mm	2.48"
15086A	9020.32.20	32mm	20mm	2.48"
15092A	9020.32.22	32mm	22mm	2.48"
15087A	9020.32.24	32mm	24mm	2.48"
15088A	9020.32.25	32mm	25mm	2.48"



# ER COLLET CHUCKS



## CAT 40 & 50 Stub, Standard & Long



### ER11 CAT Shank

EDP	Part Number	Shank	Collet Range	D	L
51010C	1196.11.40CATN	CAT40	.019-.276	0.75	2.50
51011C	2196.11.40CATN	CAT40	.019-.276	0.75	4.00
51012C	3196.11.40CATN	CAT40	.019-.276	0.75	6.00

### ER16 CAT Shank

EDP	Part Number	Shank	Collet Range	D	L
51013C	1196.16.40CATN	CAT40	.019-.394	1.26	2.50
11006C	2196.16.40CATN	CAT40	.019-.394	1.26	3.00
11007C	4196.16.40CATN	CAT40	.019-.394	1.26	6.00
11025C	1196.16.50CATN	CAT50	.019-.394	1.26	4.00
11026C	2196.16.50CATN	CAT50	.019-.394	1.26	5.00
11027C	3196.16.50CATN	CAT50	.019-.394	1.26	6.00

### ER20 CAT Shank

EDP	Part Number	Shank	Collet Range	D	L
17391C	1196.20.40CATN	CAT40	.039-.512	1.38	2.50
51014C	2196.20.40CATN	CAT40	.039-.512	1.38	4.00
51015C	3196.20.40CATN	CAT40	.039-.512	1.38	6.00
51020C	1196.20.50CATN	CAT50	.039-.512	1.38	4.00
51021C	2196.20.50CATN	CAT50	.039-.512	1.38	6.00

### ER25 CAT Shank

EDP	Part Number	Shank	Collet Range	D	L
11008C	1196.25.40CATN	CAT40	.118-.630	1.65	2.50
11009C	2196.25.40CATN	CAT40	.118-.630	1.65	4.00
51016C	3196.25.40CATN	CAT40	.118-.630	1.65	8.00
11028C	1196.25.50CATN	CAT50	.118-.630	1.65	2.50
11030C	2196.25.50CATN	CAT50	.118-.630	1.65	4.00
51022C	3196.25.50CATN	CAT50	.118-.630	1.65	6.00

### ER32 CAT Shank

EDP	Part Number	Shank	Collet Range	D	L
11012C	1196.32.40CATN	CAT40	.079-.787	1.97	3.00
11013C	2196.32.40CATN	CAT40	.079-.787	1.97	5.00
51017C	3196.32.40CATN	CAT40	.079-.787	1.97	8.00
11031C	1196.32.50CATN	CAT50	.079-.787	1.97	4.00
51023C	2196.32.50CATN	CAT50	.079-.787	1.97	6.00
51024C	3196.32.50CATN	CAT50	.079-.787	1.97	8.00

### ER40 CAT Shank

EDP	Part Number	Shank	Collet Range	D	L
51018C	1196.40.40CATN	CAT40	.079-1.024	2.48	3.50
51019C	2196.40.40CATN	CAT40	.079-1.024	2.48	6.00
51025C	1196.40.50CATN	CAT50	.079-1.024	2.48	4.00
51026C	2196.40.50CATN	CAT50	.079-1.024	2.48	6.00



### BT30 Shank

EDP	Part Number	Collet Size	Collet Range	D	L
<b>11211C</b>	1196.16.30BT N	ER16	.019-.394	1.260	2.165
<b>11212C</b>	1196.25.30BT N	ER25	.039-.630	1.654	2.165
<b>11213C</b>	1196.32.30BT N	ER32	.079-.787	1.969	2.362

### BT40 Shank

EDP	Part Number	Collet Size	Collet Range	D	L
<b>11254C</b>	1196.25.40BT N	ER25	.039-.631	1.654	2.756
<b>11255C</b>	1196.32.40BT N	ER32	.079-.787	1.969	2.756
<b>11256C</b>	2196.32.40BT N	ER32	.079-.787	1.969	3.937

### BT50 Shank

EDP	Part Number	Collet Size	Collet Range	D	L
<b>11257C</b>	1196.32.50BT N	ER32	.079-.787	1.969	3.150
<b>11258C</b>	2196.32.50BT N	ER32	.079-.787	1.969	3.937
<b>11259C</b>	1196.40.50BT N	ER40	.079-1.024	2.480	3.150



### Straight Shank ER Collet Chucks

EDP	Part Number	Collet Size	Collet Range	D1	L1	L2	D2
<b>51068A</b>	2217.11.5/8	ER11	.019-.276	0.625	6.480	0.77	0.63
<b>51069A</b>	2217.16.3/4	ER16	.019-.394	0.750	5.730	1.00	0.87
<b>51070A</b>	2217.20.1	ER20	.039-.512	1.000	5.560	1.18	1.10
<b>50171A</b>	2217.25.1	ER25	.039-.630	1.000	2.500	1.30	1.38
<b>50198A</b>	2197.32.1N	ER32	.079-.787	1.000	2.140	2.08	1.96
<b>50199A</b>	2197.40.1N	ER40	.079-1.024	1.000	2.000	2.30	2.50

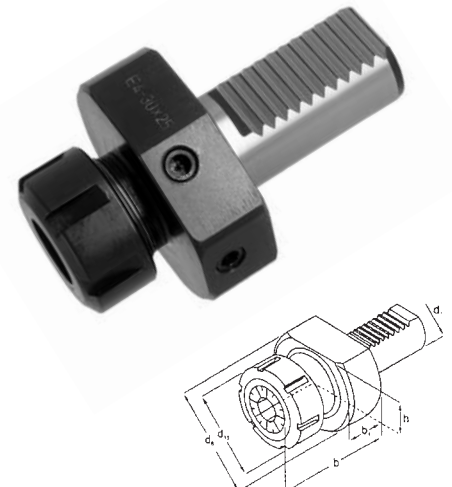


### Straight Shank Nuts

EDP	Part Number	Collet Size	Nut
<b>60002A</b>	9131.11.16	ER11	Mini
<b>60003A</b>	9131.16.22	ER16	Mini
<b>60004A</b>	9131.20.28	ER20	Mini
<b>60005A</b>	9131.25.35	ER25	Mini
<b>14963A</b>	9131.32.50	ER32	Std
<b>14964A</b>	9131.40.63	ER40	Std

### VDI Collet Chuck Type E4 (Static)

EDP	Part Number	Collet Size	Collet Range	d1	d6	d10	b	b1	h
<b>14204B</b>	88E4.16.20ER	ER20	.039-.512	0.629	1.575	1.378	1.772	0.551	0.709
<b>14205B</b>	88E4.20.25ER	ER25	.039-.630	0.787	1.969	1.654	2.165	0.709	-
<b>14207B</b>	88E4.30.25ER	ER25	.039-.630	1.181	2.677	1.654	2.165	0.866	1.102
<b>14210B</b>	88.12.40.25ER	ER25	.039-.630	1.575	3.268	1.654	2.717	0.866	1.280
<b>14206B</b>	88E4.20.32ER	ER32	.079-.787	0.787	1.969	1.969	2.165	0.709	-
<b>14208B</b>	88.12.30.32ER	ER32	.079-.787	1.181	2.677	1.969	2.165	0.866	1.102
<b>14211B</b>	88E4.40.32ER	ER32	.079-.787	1.575	3.268	1.969	3.307	0.866	1.280
<b>14213B</b>	88.12.50.32ER	ER32	.079-.787	1.969	3.858	1.969	3.307	1.181	1.378
<b>14209B</b>	88E4.30.40ER	ER40	.079-1.024	1.181	2.677	2.48	2.953	1.024	1.102
<b>14212B</b>	88E4.40.40ER	ER40	.079-1.024	1.575	3.268	2.48	2.953	0.866	1.280
<b>14014B</b>	88E4.50.40ER	ER40	.079-1.024	1.969	3.858	2.48	3.465	1.181	1.378
<b>14015B</b>	88E4.60.40ER	ER40	.079-1.024	2.362	4.843	2.48	3.543	1.181	1.673



# ER COLLET CHUCKS



## HSK 32, HSK 40 & HSK 50

### What are the advantages OF THE HSK Tool Clamping System?

An international industry standard which results in more competitive prices with many suppliers to choose from.

Stiffer and more rigid connection between the tool and spindle.

Higher spindle speeds are possible because the taper is gripped from the inside.

Higher speeds actually increase clamping force.

Excellent repeatability and accuracy.

Improved rigidity for long tools.

Tools rest in clamped position on the flange.

Faster tool change is possible because of the short tool taper.

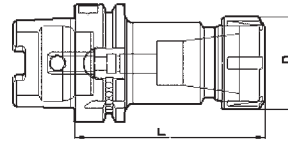
Tool clamping stresses are confined to the front of the spindle.

## Coolant Flow Adapters

### Coolant Flow Adapters for HSK Holders

EDP	Part Number	Shank	d (mm)	Thread Mount
14975A	94614012	HSK-40A	8	M12X1
14976A	94615016	HSK-50A	10	M16X1
14977A	94616318	HSK-63A	12	M18X1
14978A	94618020	HSK-80A	14	M20X1.5
14979A	946110024	HSK-100A	16	M24X1.5

EDP	Wrench	HSK
14944A	9427.08.13	40
14945A	9427.10.15	50
14946A	9427.12.16	63
14947A	9427.14.24	80
14948A	9427.16.26	100



### HSK 32 Form A+C

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51027B	1218.16.H32A	32A	ER16	.019-.394	0.870	3.150

### HSK 40 Form A+C

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51028B	1218.16.H40A	40A	ER16	.019-.394	0.870	3.150
51029B	2218.16.H40A	40A	ER16	.019-.630	0.870	4.720
51030B	1198.25.H40AN	40A	ER25	.039-.394	1.650	3.150
51031B	2198.25.H40AN	40A	ER25	.039-.630	1.650	4.720
51032B	1198.32.H40AN	40A	ER32	.079-.787	1.970	3.940

### HSK 40 Form E

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51041B	1218.16.H40E	40E	ER16	.019-.394	0.870	3.150
51042B	2218.16.H40E	40E	ER16	.019-.394	0.870	4.720
51043B	1198.25.H40EN	40E	ER25	.039-.630	1.650	3.150
51044B	2198.25.H40EN	40E	ER25	.039-.630	1.650	4.720
51045B	1198.32.H40EN	40E	ER32	.079-.787	1.970	3.940

### HSK 50 Form A+C

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51033B	1218.16.H50A	50A	ER16	.019-.394	0.866	3.937
51034B	1198.25.H50AN	50A	ER25	.039-.630	1.654	3.937
51035B	1198.32.H50AN	50A	ER32	.079-.787	1.969	3.937

### HSK 50 Form E

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51046B	1218.16.H50E	50E	ER16	.019-.394	0.866	3.937
51047B	1198.25.H50EN	50E	ER25	.039-.630	1.654	3.937
51048B	1198.32.H50EN	50E	ER32	.079-.787	1.969	3.937

### HSK 50 Form F

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51057B	1218.16.H50F	50F	ER16	.019-.394	0.866	3.150
51058B	1198.25.H50FN	50F	ER25	.039-.630	1.654	3.150
51059B	1198.32.H50FN	50F	ER32	.079-.787	1.969	3.937

## HSK 63 & HSK 100



### HSK 63 Form A+C

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
11413B	1218.16.H63A	63A	ER16	.019-.394	0.866	3.937
11414B	1198.25.H63AN	63A	ER25	.039-.630	1.654	3.937
11415B	1198.32.H63AN	63A	ER32	.079-.787	1.969	3.937
11416B	1198.40.H63AN	63A	ER40	.079-1.024	2.480	4.724

### HSK 63 Form E

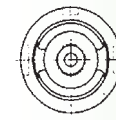
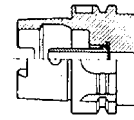
EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51049B	1218.16.H63E	63E	ER16	.019-.394	0.866	6.300
51051B	1198.25.H63EN	63E	ER25	.039-.630	1.654	3.937
51053B	1198.32.H63EN	63E	ER32	.079-.787	1.969	3.937
51055B	1198.40.H63EN	63E	ER40	.079-1.024	2.480	4.724
51050B	2218.16.H63E	63E	ER16	.019-.394	0.866	6.300
51052B	2198.25.H63EN	63E	ER25	.039-.630	1.654	6.300
51054B	2198.32.H63EN	63E	ER32	.079-.787	1.969	6.300
51056B	2198.40.H63EN	63E	ER40	.079-1.024	2.480	6.300

### HSK 63 Form F

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51060B	1218.16.H63F	63F	ER16	.019-.394	0.866	3.937
51062B	1198.25.H63FN	63F	ER25	.039-.630	1.654	3.937
51064B	1198.32.H63FN	63F	ER32	.079-.787	1.969	3.937
51066B	1198.40.H63FN	63F	ER40	.079-1.024	2.480	4.724
51061B	2218.16.H63F	63F	ER16	.019-.394	0.866	6.300
51065B	2198.32.H63FN	63F	ER32	.079-.787	1.969	6.300

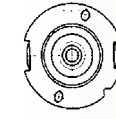
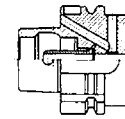
### HSK 100 Form A+C

EDP	Part Number	Taper	Collet Size	Collet Range	D	L
51036B	1218.16.H100A	100A	ER16	.019-.394	0.866	6.300
51037B	1198.32.H100AN	100A	ER32	.079-.787	1.969	3.937
51039B	1198.40.H100AN	100A	ER40	.079-1.024	2.480	4.724
51038B	2198.32.H100AN	100A	ER32	.079-.787	1.969	6.300
51040B	2198.40.H100AN	100A	ER40	.079-1.024	2.480	6.300



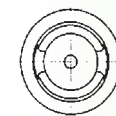
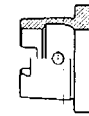
### HSK Form A

Automatic Tool Change  
Most Common HSK Form.



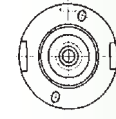
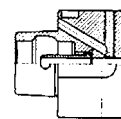
### HSK Form B

Automatic Tool Change,  
Larger flange diameter  
for a maximum  
spindle interface.



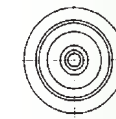
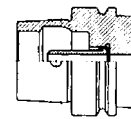
### HSK Form C

Manual Tool Change,  
Front Clamping For use  
with tool extensions  
and short spindles  
on transfer lines



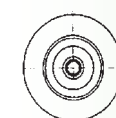
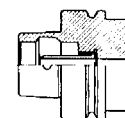
### HSK Form D

Manual Tool Change  
Larger flange diameter  
for maximum  
spindle interface.



### HSK Form E

Automatic tool Change  
No driveway, common in  
wood-working machines,  
easy to balance.  
Used For: High Speed Machining.



### HSK Form F

Automatic tool Change  
Larger flange diameter for  
a maximum spindle  
interface, no drive keyway.  
Used For: High Speed Machining



# ER COLLETS

**ER11, ER16 & ER20**

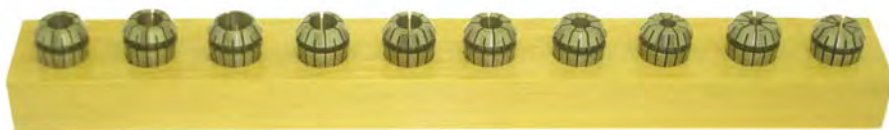
Standard & Coolant Tight - Individual & Sets



## DIN 6499 European



ER11			ER16					ER20				
Standard			Standard		Coolant Tight			Standard			Coolant Tight	
Clamping Range	EDP	Part Number	Clamping Range	EDP	Part Number	EDP	Part Number	Clamping Range	EDP	Part Number	EDP	Part Number
.019-.039	<b>50172A</b>	9010.11.01	.019-.039	<b>50182A</b>	9010.16.01							
.039-.059	<b>50173A</b>	9010.11.015	.039-.079	<b>13799A</b>	9010.16.02			.039-.079	<b>13785A</b>	9010.20.02		
.059-.079	<b>50174A</b>	9010.11.02	.079-.118	<b>13800A</b>	9010.16.03	<b>13871A</b>	9010.16.03TR	.079-.118	<b>13786A</b>	9010.20.03	<b>13966A</b>	9010.20.03TR
.079-.098	<b>13400A</b>	9010.11.025	.118-.157	<b>13801A</b>	9010.16.04	<b>13872A</b>	9010.16.04TR	.118-.157	<b>13787A</b>	9010.20.04	<b>13967A</b>	9010.20.04TR
.098-.118	<b>50175A</b>	9010.11.03	.157-.197	<b>13802A</b>	9010.16.05	<b>13873A</b>	9010.16.05TR	.157-.197	<b>13788A</b>	9010.20.05	<b>13968A</b>	9010.20.05TR
.118-.138	<b>50176A</b>	9010.11.035	.197-.236	<b>13803A</b>	9010.16.06	<b>13874A</b>	9010.16.06TR	.197-.236	<b>13789A</b>	9010.20.06	<b>13969A</b>	9010.20.06TR
.138-.157	<b>13403A</b>	9010.11.04	.236-.276	<b>13804A</b>	9010.16.07	<b>13875A</b>	9010.16.07TR	.236-.276	<b>13790A</b>	9010.20.07	<b>13970A</b>	9010.20.07TR
.157-.177	<b>50177A</b>	9010.11.045	.276-.315	<b>13805A</b>	9010.16.08	<b>13876A</b>	9010.16.08TR	.276-.315	<b>13791A</b>	9010.20.08	<b>13971A</b>	9010.20.08TR
.177-.197	<b>50178A</b>	9010.11.05	.315-.354	<b>13806A</b>	9010.16.09	<b>13877A</b>	9010.16.09TR	.315-.354	<b>13792A</b>	9010.20.09	<b>13972A</b>	9010.20.09TR
.197-.217	<b>50179A</b>	9010.11.055	.354-.394	<b>13807A</b>	9010.16.10	<b>13878A</b>	9010.16.10TR	.354-.394	<b>13793A</b>	9010.20.10	<b>13973A</b>	9010.20.10TR
.217-.236	<b>13407A</b>	9010.11.06						.394-.433	<b>13794A</b>	9010.20.11	<b>13974A</b>	9010.20.11TR
.236-.256	<b>50780A</b>	9010.11.065						.433-.472	<b>13795A</b>	9010.20.12	<b>13975A</b>	9010.20.12TR
.256-.276	<b>50181A</b>	9010.11.07						.472-.512	<b>13796A</b>	9010.20.13	<b>13976A</b>	9010.20.13TR



**ER Collet Sets**



**ER Collet Chuck Wrenches**

EDP	Part Number	Size
<b>50196A</b>	M-4917-00	ER11
<b>14970A</b>	M-4732-00	ER16
<b>14971A</b>	M-4735-00	ER20
<b>14972A</b>	M-4742-00	ER25
<b>14973A</b>	M-4750-00	ER32
<b>14974A</b>	M-4763-00	ER40

**ER Collet Chuck Mini Nut Wrenches**

EDP	Part Number	Size
<b>14989A</b>	M-4716-00	ER11
<b>14990A</b>	M-4722-00	ER16
<b>14991A</b>	M-4728-00	ER20
<b>14992A</b>	M-4735-01	ER25

Standard				Coolant Tight			
EDP	Part Number	QTY	Clamping Range	EDP	Part Number	QTY	Clamping Range
<b>13896A</b>	9010.16.00	8	.079-.394	<b>50192A</b>	9010.16.00TR	8	.079-.394
<b>50188A</b>	9010.20.00	12	.039-.512	<b>50193A</b>	9010.20.00TR	11	.079-.512
<b>50189A</b>	9010.25.00	15	.039-.630	<b>60001A</b>	9010.25.00TR	15	.079-.630
<b>13894A</b>	9010.32.00	18	.079-.787	<b>50194A</b>	9010.32.00TR	18	.079-.787
<b>50191A</b>	9010.40.00	24	.079-1.024	<b>50195A</b>	9010.40.00TR	23	.118-1.024

# Quality • High Accuracy



ER25					ER32					ER40				
Standard			Coolant Tight		Standard			Coolant Tight		Standard			Coolant Tight	
Clamping Range	EDP	Part Number	EDP	Part Number	Clamping Range	EDP	Part Number	EDP	Part Number	Clamping Range	EDP	Part Number	EDP	Part Number
.039-.079	50184A	9010.25.02								.079-.118			13940A	9010.40.03TR
.079-.118	13899A	9010.25.03	13901A	9010.25.03TR	.079-.118	13819A	9010.32.03	13921A	9010.32.03TR	.079-.118	13837A	9010.40.03		
.118-.157	13898A	9010.25.04	13902A	9010.25.04TR	.118-.157	13820A	9010.32.04	13922A	9010.32.04TR	.118-.157	13838A	9010.40.04	13941A	9010.40.04TR
.157-.197	13897A	9010.25.05	13903A	9010.25.05TR	.157-.197	13821A	9010.32.05	13923A	9010.32.05TR	.157-.197	13839A	9010.40.05	13942A	9010.40.05TR
.197-.236	13808A	9010.25.06	13904A	9010.25.06TR	.197-.236	13822A	9010.32.06	13924A	9010.32.06TR	.197-.236	13840A	9010.40.06	13943A	9010.40.06TR
.236-.276	13809A	9010.25.07	13905A	9010.25.07TR	.236-.276	13823A	9010.32.07	13925A	9010.32.07TR	.236-.276	13841A	9010.40.07	13944A	9010.40.07TR
.276-.315	13810A	9010.25.08	13906A	9010.25.08TR	.276-.315	13824A	9010.32.08	13926A	9010.32.08TR	.276-.315	13842A	9010.40.08	13945A	9010.40.08TR
.315-.354	13811A	9010.25.09	13907A	9010.25.09TR	.315-.354	13825A	9010.32.09	13927A	9010.32.09TR	.315-.354	13843A	9010.40.09	13946A	9010.40.09TR
.354-.394	13812A	9010.25.10	13908A	9010.25.10TR	.354-.394	13826A	9010.32.10	13928A	9010.32.10TR	.354-.394	13844A	9010.40.10	13947A	9010.40.10TR
.394-.433	13813A	9010.25.11	13909A	9010.25.11TR	.394-.433	13827A	9010.32.11	13929A	9010.32.11TR	.394-.433	13845A	9010.40.11	13948A	9010.40.11TR
.433-.472	13814A	9010.25.12	13910A	9010.25.12TR	.433-.472	13828A	9010.32.12	13930A	9010.32.12TR	.433-.472	13846A	9010.40.12	13949A	9010.40.12TR
.472-.512	13815A	9010.25.13	13911A	9010.25.13TR	.472-.512	13829A	9010.32.13	13931A	9010.32.13TR	.472-.512	13847A	9010.40.13	13950A	9010.40.13TR
.512-.551	13816A	9010.25.14	13912A	9010.25.14TR	.512-.551	13830A	9010.32.14	13932A	9010.32.14TR	.512-.551	13848A	9010.40.14	13951A	9010.40.14TR
.551-.591	13817A	9010.25.15	13913A	9010.25.15TR	.551-.591	13831A	9010.32.15	13933A	9010.32.15TR	.551-.591	13849A	9010.40.15	13952A	9010.40.15TR
.591-.630	13818A	9010.25.16	13914A	9010.25.16TR	.591-.630	13832A	9010.32.16	13934A	9010.32.16TR	.591-.630	13850A	9010.40.16	13953A	9010.40.16TR
					.630-.669	13833A	9010.32.17	13935A	9010.32.17TR	.630-.669	13851A	9010.40.17	13954A	9010.40.17TR
					.669-.709	13834A	9010.32.18	13936A	9010.32.18TR	.669-.709	13852A	9010.40.18	13955A	9010.40.18TR
					.709-.748	13835A	9010.32.19	13937A	9010.32.19TR	.709-.748	13853A	9010.40.19	13956A	9010.40.19TR
					.748-.787	13836A	9010.32.20	13938A	9010.32.20TR	.748-.787	13854A	9010.40.20	13957A	9010.40.20TR
										.787-.827	13855A	9010.40.21	13958A	9010.40.21TR
										.827-.866	13856A	9010.40.22	13959A	9010.40.22TR
										.866-.906	13857A	9010.40.23	13960A	9010.40.23TR
										.906-.945	13858A	9010.40.24	13961A	9010.40.24TR
										.945-.984	13859A	9010.40.25	13962A	9010.40.25TR
										.984-1.024	13860A	9010.40.26	13963A	9010.40.26TR



ER Collet Chuck Nuts			ER Collet Chuck Nuts with Ball Bearings			ER Collet Chuck Mini Nuts			Hex Nuts		
EDP	Part Number	Collet	EDP	Part Number	Collet	EDP	Part Number	Collet	EDP	Part Number	Size
14960A	9130.16.32	ER16	14966A	9120.20.35	ER20	60002A	9131.11.16	ER11	60021A	9133.11.19	ER11
14961A	9130.20.35	ER20	14967A	9120.25.42	ER25	60003A	9131.16.22	ER16	60022A	9133.16.28	ER16
14962A	9130.25.42	ER25	14968A	9120.32.50	ER32	60004A	9131.20.28	ER20			
14963A	9130.32.50	ER32	14969A	9120.40.63	ER40	60005A	9131.25.35	ER25			
14964A	9130.40.63	ER40									

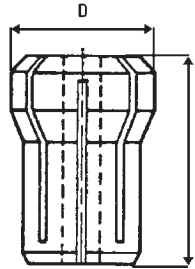


# DA COLLETS & HOLDERS

## DA100, DA180, DA200 & DA300



DA Collet Dimensions	DA 100	DA 180	DA 200	DA 300
D =	.769"	1.035"	.532"	.375"
L =	1.44"	1.64"	1.19"	1.004"
Bore Range	1/8-9/16	1/8-3/4	1/16-3/8	1/16-1/4
Collapse	1/64"	1/64"	1/64"	1/64"
Accuracy	.0005" T.I.R. (at nose)			



### Double Angle Straight Shank Collet Holder

EDP	Part Number	Shank Dia	DA Collet	OAL
X50200B	4119.050.DA300	0.50	300	6.88
X50201B	4119.075.DA200	0.75	200	7.23
X50202B	4119.1000.DA100	1.00	100	7.50
X50203B	4119.1250.DA180	1.25	180	7.41

### Double Angle Collet Sets

EDP	Collet Series	Description	Part Number
X60020A	DA300	9 Pieces (1/8"-1/4") by 64ths	DA300-SET9
X60021A	DA200	17 Pieces (1/8"-3/8") by 64ths	DA200-SET17
X60022A	DA100	29 Pieces (1/8"-9/16") by 64ths	DA100-SET29
X60023A	DA180	33 Pieces (1/4"-3/4") by 64ths	DA180-SET33

ID Hole Size		300 DA	200 DA	100 DA	180 DA
Size	Dec.	EDP	EDP	EDP	EDP
3/64"	0.047	X13981A	X13995A	X14018A	X14052A
1/16"	0.063	X13982A	X13996A	X14019A	X14053A
5/64"	0.078	X13983A	X13997A	X14020A	X14054A
3/32"	0.094	X13984A	X13998A	X14021A	X14055A
7/64"	0.109	X13985A	X13999A	X14022A	X14056A
1/8"	0.125	X13986A	X14000A	X14023A	X14057A
9/64"	0.141	X13987A	X14001A	X14024A	X14058A
5/32"	0.156	X13988A	X14002A	X14025A	X14059A
11/64"	0.172	X13989A	X14003A	X14026A	X14060A
3/16"	0.188	X13990A	X14004A	X14027A	X14061A
13/64"	0.203	X13991A	X14005A	X14028A	X14062A
7/32"	0.219	X13992A	X14006A	X14029A	X14063A
15/64"	0.234	X13993A	X14007A	X14030A	X14064A
1/4"	0.250	X13994A	X14008A	X14031A	X14065A
17/64"	0.266		X14009A	X14032A	X14066A
9/32"	0.281		X14010A	X14033A	X14067A
19/64"	0.297		X14011A	X14034A	X14068A
5/16"	0.313		X14012A	X14035A	X14069A
21/64"	0.328		X14013A	X14036A	X14070A
11/32"	0.349		X14014A	X14037A	X14071A
23/64"	0.359		X14015A	X14038A	X14072A
3/8"	0.375		X14016A	X14039A	X14073A
25/64	0.391		X14017A	X14040A	X14074A
13/32"	0.406			X14041A	X14075A
27/64	0.422			X14042A	X14076A
7/16"	0.438			X14043A	X14077A
29/64"	0.453			X14044A	X14078A
15/32"	0.469			X14045A	X14079A
31/64"	0.484			X14046A	X14080A
1/2"	0.500			X14047A	X14081A
33/64"	0.516			X14048A	X14082A
17/32"	0.531			X14049A	X14083A
35/64"	0.547			X14050A	X14084A
9/16"	0.563			X14051A	X14085A
37/64"	0.578				X14086A
19/32"	0.594				X14087A
39/64"	0.609				X14088A
5/8"	0.625				X14089A
41/64"	0.641				X14090A
21/32"	0.656				X14091A
43/64	0.672				X14092A
11/16"	0.688				X14093A
45/64"	0.703				X14094A
23/32"	0.719				X14095A
47/64"	0.734				X14096A
3/4"	0.750				X14097A



## BT & HSK Metric Standards

### METRIC STANDARDS

#### HSK 63 Form A+C Standard Length

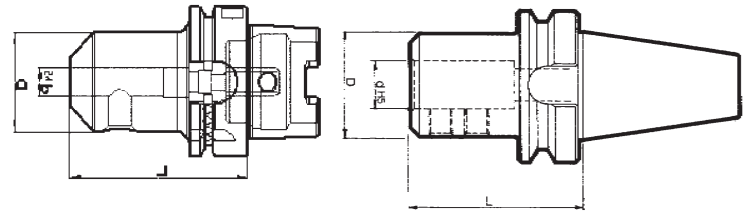
EDP	Part Number	Shank	d Metric	d Decimal	D	L
11426B	1248.06.H63A	HSK63A	6mm	0.236	25	65
11427B	1248.08.H63A	HSK63A	8mm	0.315	28	65
11428B	1248.10.H63A	HSK63A	10mm	0.394	35	65
11429B	1248.12.H63A	HSK63A	12mm	0.472	42	80
11484B	1248.14.H63A	HSK63A	14mm	0.551	44	80
11430B	1248.16.H63A	HSK63A	16mm	0.630	48	80
11485B	1248.18.H63A	HSK63A	18mm	0.709	50	80
11431B	1248.20.H63A	HSK63A	20mm	0.787	52	80
11432B	1248.25.H63A	HSK63A	25mm	0.984	64	110
11433B	1248.32.H63A	HSK63A	32mm	1.260	64	110

#### HSK 63 Form A+C Long Length

EDP	Part Number	Shank	d Metric	d Decimal	D	L
11434B	2248.06.H63A	HSK63A	6mm	0.236	25	100
11435B	2248.08.H63A	HSK63A	8mm	0.315	28	100
11436B	2248.10.H63A	HSK63A	10mm	0.394	35	100
11437B	2248.12.H63A	HSK63A	12mm	0.472	42	120
11486B	2248.14.H63A	HSK63A	14mm	0.551	44	120
11438B	2248.16.H63A	HSK63A	16mm	0.630	48	120
11487B	2248.18.H63A	HSK63A	18mm	0.709	50	120
11439B	2248.20.H63A	HSK63A	20mm	0.787	52	120
11440B	2248.25.H63A	HSK63A	25mm	0.984	64	150
11441B	2248.32.H63A	HSK63A	32mm	1.260	72	150

#### HSK 100 Form A+C Standard Length

EDP	Part Number	Shank	d Metric	d Decimal	D	L
11511B	1248.06.H100A	HSK100A	6mm	0.236	25	80
11512B	1248.08.H100A	HSK100A	8mm	0.315	28	80
11513B	1248.10.H100A	HSK100A	10mm	0.394	35	80
11514B	1248.12.H100A	HSK100A	12mm	0.472	42	80
11572B	1248.14.H100A	HSK100A	14mm	0.551	44	80
11515B	1248.16.H100A	HSK100A	16mm	0.630	48	100
11573B	1248.18.H100A	HSK100A	18mm	0.709	48	100
11516B	1248.20.H100A	HSK100A	20mm	0.787	52	100
11517B	1248.25.H100A	HSK100A	25mm	0.984	64	100
11518B	1248.32.H100A	HSK100A	32mm	1.260	72	100



#### BT30 Standard Length

EDP	Part Number	Shank	d Metric	d Decimal	D	L
11220B	1246.06.30BT	BT30	6mm	0.236	25	50
11221B	1246.08.30BT	BT30	8mm	0.315	28	50
11222B	1246.10.30BT	BT30	10mm	0.394	35	50
11223B	1246.12.30BT	BT30	12mm	0.472	42	55
11224B	1246.16.30BT	BT30	16mm	0.630	48	63
11225B	1246.20.30BT	BT30	20mm	0.787	52	70

#### BT40 Standard Length

EDP	Part Number	Shank	d Metric	d Decimal	D	L
11226B	1246.06.40BT	BT40	6mm	0.236	25	50
11227B	1246.08.40BT	BT40	8mm	0.315	28	50
11228B	1246.10.40BT	BT40	10mm	0.394	35	63
11229B	1246.12.40BT	BT40	12mm	0.472	42	63
11230B	1246.16.40BT	BT40	16mm	0.630	48	63
11231B	1246.20.40BT	BT40	20mm	0.787	52	63
11232B	1246.25.40BT	BT40	25mm	0.984	65	90
11233B	1246.32.40BT	BT40	32mm	1.260	72	100

#### BT50 Standard Length

EDP	Part Number	Shank	d Metric	d Decimal	D	L
11234B	1246.06.50BT	BT50	6mm	0.236	25	63
11235B	1246.08.50BT	BT50	8mm	0.315	28	63
11236B	1246.10.50BT	BT50	10mm	0.394	35	70
11237B	1246.12.50BT	BT50	12mm	0.472	42	80
11238B	1246.16.50BT	BT50	16mm	0.630	48	80
11239B	1246.20.50BT	BT50	20mm	0.787	52	80
11240B	1246.25.50BT	BT50	25mm	0.984	65	100
11241B	1246.32.50BT	BT50	32mm	1.260	72	105
11242B	1246.40.50BT	BT50	40mm	1.575	80	120
11243B	1246.50.50BT	BT50	50mm	1.969	100	125

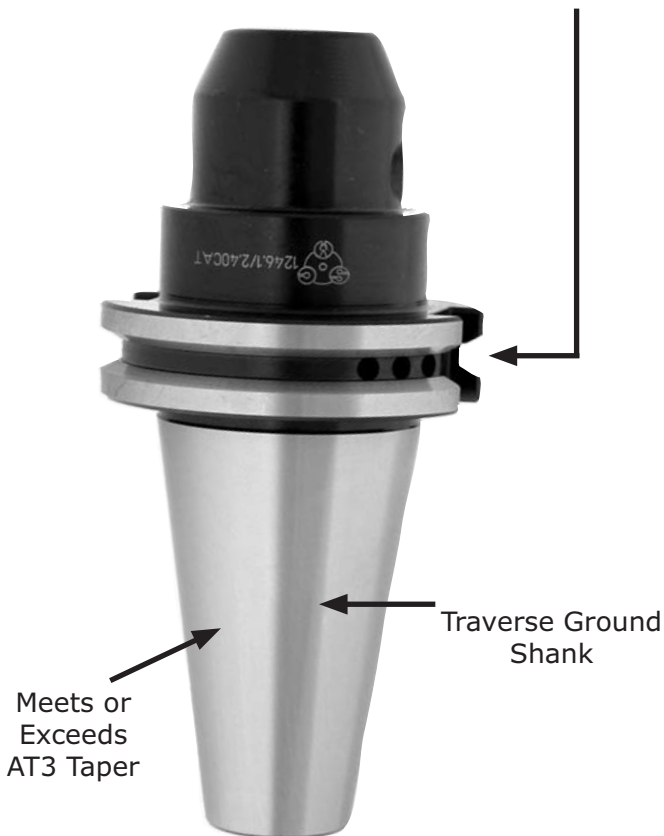
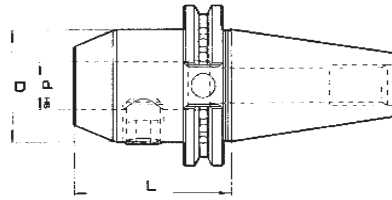
# ENDMILL HOLDERS



## CAT 40 Stub, Standard & Long

Endmill Socket  
T.I.R.  $\leq .0002''$

Balanced to G6.3 @  
15,000 RPM



### CAT40 Stub Length

EDP	Part Number	Bore $\varnothing$	Gage Length
11110C	0246.1/4.40CAT	1/4"	1.38
11112C	0246.5/16.40CAT	5/16"	1.38
11114C	0246.3/8.40CAT	3/8"	1.38
11118C	0246.1/2.40CAT	1/2"	1.75
11121C	0246.5/8.40CAT	5/8"	1.75
11124C	0246.3/4.40CAT	3/4"	1.75
11127C	0246.1.40CAT	1"	2.00
11129C	0246.1-1/4.40CAT	1 1/4"	2.00

### CAT40 Standard Length

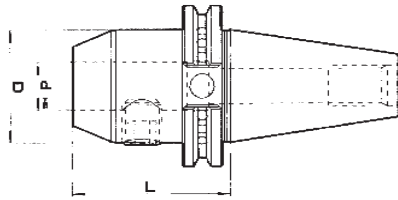
EDP	Part Number	Bore $\varnothing$	Gage Length
11060C	1246.1/4.40CAT	1/4"	2.50
11071C	1246.5/16.40CAT	5/16"	2.50
11061C	1246.3/8.40CAT	3/8"	2.50
11072C	1246.7/16.40CAT	7/16"	2.50
11062C	1246.1/2.40CAT	1/2"	2.50
11073C	1246.5/8.40CAT	5/8"	3.00
11063C	1246.3/4.40CAT	3/4"	3.00
11074C	1246.7/8.40CAT	7/8"	3.50
11075C	1246.1.40CAT	1"	4.00
11076C	1246.1-1/4.40CAT	1 1/4"	4.00
11077C	1246.1-1/2.40CAT	1 1/2"	4.70

### CAT40 Long Length

EDP	Part Number	Bore $\varnothing$	Gage Length
11111C	2246.1/4.40CAT	1/4"	4.00
11113C	2246.5/16.40CAT	5/16"	4.00
11115C	2246.3/8.40CAT	3/8"	4.00
11117C	2246.7/16.40CAT	7/16"	4.00
11119C	2246.1/2.40CAT	1/2"	4.00
11122C	2246.5/8.40CAT	5/8"	4.00
11125C	2246.3/4.40CAT	3/4"	4.00
11128C	2246.1.40CAT	1"	6.00
11130C	2246.1-1/4.40CAT	1 1/4"	6.00



## CAT 50 Stub, Standard & Long



### CAT50 Stub Length

EDP	Part Number	Bore Ø	Gage Length
11140C	0246.3/8.50CAT	3/8"	1.38
11148C	0246.1/2.50CAT	1/2"	1.75
11152C	0246.5/8.50CAT	5/8"	1.75
11156C	0246.3/4.50CAT	3/4"	1.75
11160C	0246.7/8.50CAT	7/8"	1.75
11163C	0246.1.50CAT	1"	2.00
11166C	0246.1-1/4.50CAT	1 1/4"	2.00
11170C	0246.1-1/2.50CAT	1 1/2"	2.25

### CAT50 Standard Length

EDP	Part Number	Bore Ø	Gage Length
11133C	1246.1/4.50CAT	1/4"	2.50
11137C	1246.5/16.50CAT	5/16"	2.50
11064C	1246.3/8.50CAT	3/8"	2.50
11144C	1246.7/16.50CAT	7/16"	2.50
11065C	1246.1/2.50CAT	1/2"	2.63
11066C	1246.5/8.50CAT	5/8"	3.00
11067C	1246.3/4.50CAT	3/4"	3.00
11161C	1246.7/8.50CAT	7/8"	3.75
11068C	1246.1.50CAT	1"	4.00
11167C	1246.1-1/4.50CAT	1 1/4"	4.00
11171C	1246.1-1/2.50CAT	1 1/2"	4.50
11175C	1246.2.50CAT	2"	5.38

### CAT50 Long Length

EDP	Part Number	Bore Ø	Gage Length
11134C	2246.1/4.50CAT	1/4"	4.00
11138C	2246.5/16.50CAT	5/16"	4.00
11141C	2246.3/8.50CAT	3/8"	4.00
11145C	2246.7/16.50CAT	7/16"	4.00
11149C	2246.1/2.50CAT	1/2"	4.00
11153C	2246.5/8.50CAT	5/8"	4.00
11157C	2246.3/4.50CAT	3/4"	4.00
11162C	2246.7/8.50CAT	7/8"	6.00
11164C	2246.1.50CAT	1"	6.00
11168C	2246.1-1/4.50CAT	1 1/4"	6.00
11172C	2246.1-1/2.50CAT	1 1/2"	7.00

Endmill Socket  
T.I.R.  $\leq .0002"$



Meets or Exceeds  
AT3 Taper

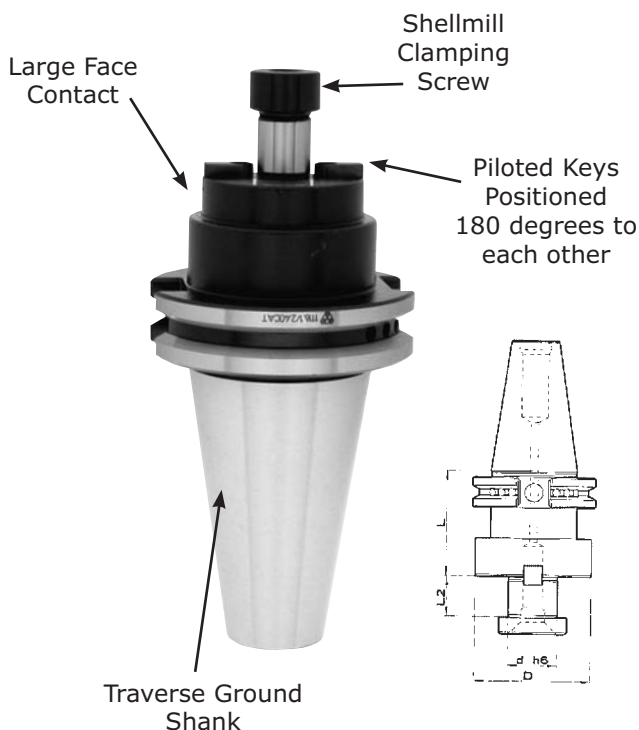
Traverse Ground  
Shank





# SHELLMILL HOLDERS & JACOBS TAPER HOLDERS

## CAT & BT Shanks



### CAT40 Shellmill Holder

EDP	Part Number	d	D	L2	L
11000C	1116.1/2.40CAT	1/2	1.38	0.57	1.75
11078C	1116.3/4.40CAT	3/4	2.00	0.67	1.75
11079C	1116.1.40CAT	1	2.38	0.67	1.75
11080C	1116.1-1/4.40CAT	1 1/4	2.88	0.67	2.00
11004C	1116.1-1/2.40CAT	1 1/2	3.80	0.93	2.00

### CAT50 Shellmill Holder

EDP	Part Number	d	D	L2	L
11081C	1116.3/4.50CAT	3/4	2.00	0.67	1.75
11082C	1116.1.50CAT	1	2.75	0.67	1.75
11083C	1116.1-1/4.50CAT	1 1/4	2.88	0.67	1.75
11084C	1116.1-1/2.50CAT	1 1/2	3.80	0.93	3.00
15109C	1116.2.50CAT	2	4.38	0.93	4.00

### BT30 Shellmill Holders - METRIC Standard

EDP	Part Number	d	D	L2	L
11215C	1086.16.30BT	16	38	17	35
11216C	1086.22.30BT	22	48	19	40
11217C	1086.27.30BT	27	58	21	40

### BT40 Shellmill Holders - METRIC Standard

EDP	Part Number	d	D	L2	L
11244C	1086.16.40BT	16	38	17	45
11245C	1086.22.40BT	22	48	19	45
11246C	1086.27.40BT	27	58	21	45
11247C	1086.32.40BT	32	78	24	50
11248C	1086.40.40BT	40	88	27	55

### BT50 Shellmill Holders - METRIC Standard

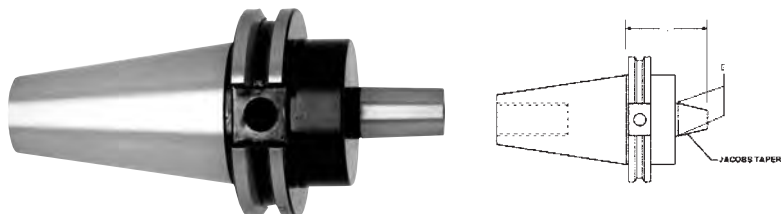
EDP	Part Number	d	D	L2	L
11249C	1086.16.50BT	16	38	17	60
11250C	1086.22.50BT	22	48	19	60
11251C	1086.27.50BT	27	58	21	60
11252C	1086.32.50BT	32	78	24	60
11253C	1086.40.50BT	40	88	27	60

### CAT40 Jacobs Taper Holder

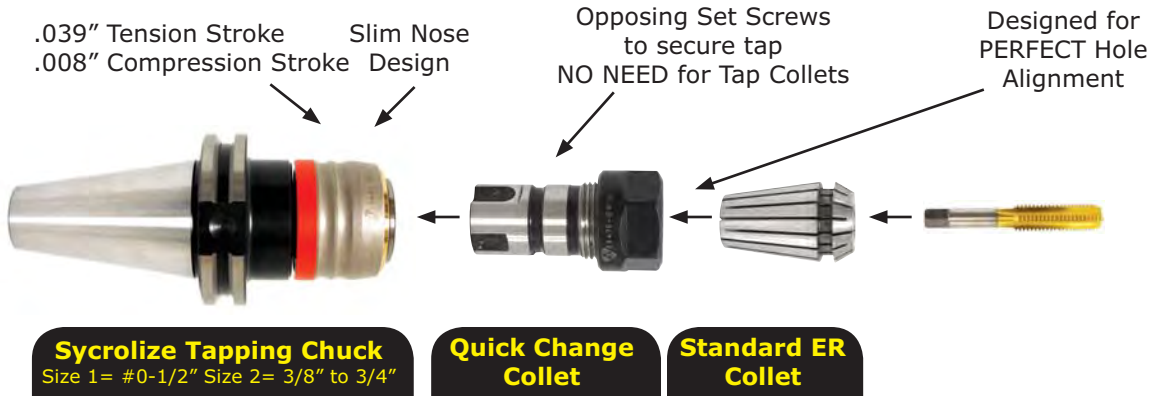
EDP	Part Number	Jacobs Taper	B	L
11087C	1576.02.40CAT	#2 Taper	0.48	1.57
11088C	1576.33.40CAT	#33 Taper	0.62	1.57
11089C	1576.06.40CAT	#6 Taper	0.70	1.57

### CAT50 Jacobs Taper Holder

EDP	Part Number	Jacobs Taper	B	L
11090C	1576.33.50CAT	#33 Taper	0.62	1.97
11091C	1576.06.50CAT	#6 Taper	0.70	1.97



## Syncrolize Tapping Systems for Rigid Tapping



Up to  
**200%**  
increase in  
**TAP LIFE**

**PERFORMANCE GUARANTEED!**

## Tension & Compression Tapping System

### Rigid Tap Adapter

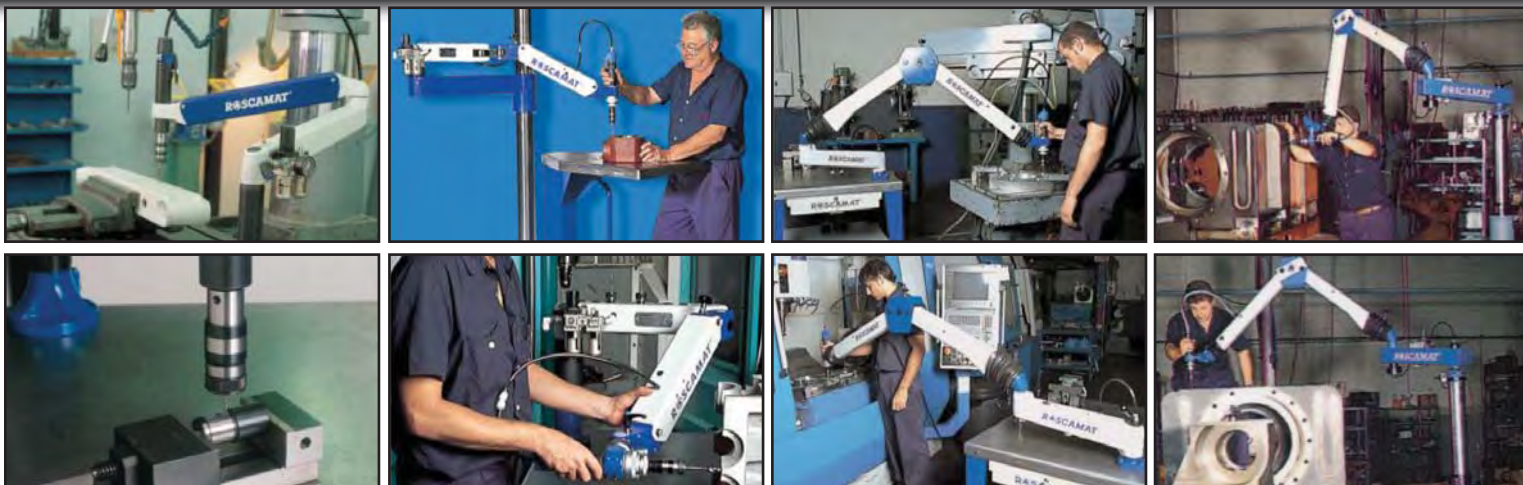
Best suited for through holes and in applications where tap breakage is not a concern.

### Torque Control Tap Adapter

Torque control adapters are the best solution for protecting your taps and work pieces from tap breakage. The prime application for torque control adapters is Blind Hole Tapping and where Chip Evacuation is a concern.



## Roscamat Tapping Arms



# TAPPING SOLUTIONS



## SYNCROLIZED SIZE 1 - #0 - 1/2"

CAT, CAT Form B, BT, HSK, VDI & Straight Shank

Size Range 1



**.039 TENSION & .008 COMPRESSION**



### CAT Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13004B	23400-40CAT	CAT40	1.693	2.087
13005B	23400-50CAT	CAT50	1.690	2.402

### CAT Shank Form B (Coolant Thru the Flange)

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13040B	23400-40CAT-B	CAT40	1.693	2.087

### BT Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13034B	23400-30BT	BT30	1.693	2.087
13006B	23400-40BT	BT40	1.690	2.402
13007B	23400-50BT	BT50	1.693	2.835

### HSK Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13000B	23400-H40A	HSK40	1.693	2.717
13020B	23400-H40E	HSK40	1.693	2.717
13001B	23400-H50A	HSK50	1.693	2.756
13021B	23400-H50E	HSK50	1.693	2.756
13002B	23400-H63A	HSK63	1.693	2.520
13022B	23400-H63E	HSK63	1.693	2.520
13003B	23400-H100A	HSK100	1.693	2.756

### Straight Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13008B	23400-INC1	1"	1.693	1.299

### VDI Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13030B	23400-VDI30	VDI30	1.693	1.811
13031B	23400-VDI40	VDI40	1.693	1.811



### Quick Change Collet Chucks

EDP	Part Number	Collet Size	(L)	Nose Ø
13600A	23410-ER16	ER16	0.945	1.102

### ER16 Collets

EDP	Part Number	Inch Tap	Metric Tap	SQ.
13801A	9010.16.04	#0-6	M1.6 - M3.5	.110"
13802A	9010.16.05	8-10	M5	.131"
13803A	9010.16.06	#12	-	.165"
13804A	9010.16.07	1/4	M6	.191"
13806A	9010.16.09	5/16	M7, M8	.238"
13807A	9010.16.10	3/8	M10	.286"
13806A	9010.16.09	7/16	-	.242"
13807A	9010.16.10	1/2	M12	.275"



SEE DIAGRAM ON PAGE 17



### CAT Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13013B	23600-40CAT	CAT40	2.323	2.874
13014B	23600-50CAT	CAT50	2.323	2.874

### CAT Shank Form B (Coolant Thru The Flange)

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13041B	23600-40CAT-B	CAT40 DIN	2.322	2.874

### BT Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13015B	23600-40BT	BT40	2.362	3.228
13016B	23600-50BT	BT50	2.362	3.661

### HSK Shank

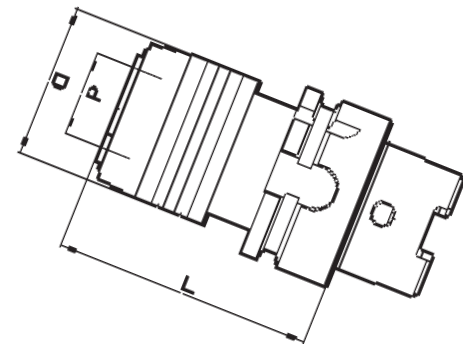
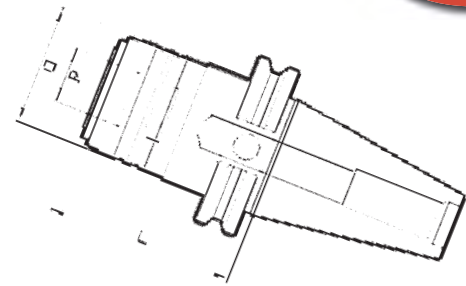
EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13009B	23600-H40A	HSK40	2.362	3.543
13023B	23600-H40E	HSK40	2.362	3.543
13010B	23600-H50A	HSK50	2.362	3.819
13024B	23600-H50E	HSK50	2.362	3.819
13011B	23600-H63A	HSK63	2.362	3.819
13025B	23600-H63E	HSK63	2.362	3.819
13012B	23600-H100A	HSK100	2.362	3.583

### Straight Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13017B	23600-INC1	SS 1"	2.323	2.126

### VDI Shank

EDP	Part Number	Shank Diameter	Nose Ø	Gage Length
13032B	23600-VDI-30	VDI30	2.362	2.638
13033B	23600-VDI-40	VDI40	2.362	2.638



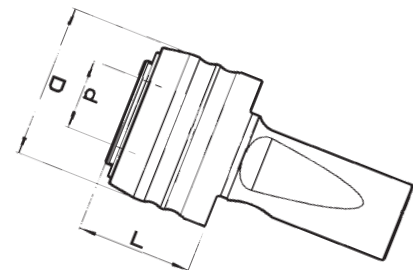
SEE DIAGRAM ON PAGE 17

### Quick Change Collet Chucks

EDP	Part Number	Collet Size	(L)	Nose Ø
13602A	23610-ER25	ER25	1.102	1.654

### ER25 Collets

EDP	Part Number	Inch Tap	Metric Tap	SQ.
13812A	9010.25.10	3/8	M10	.286"
13811A	9010.25.09	7/16	-	.242"
13812A	9010.25.10	1/2	M12	.275"
13813A	9010.25.11	9/16	M14	.322"
13815A	9010.25.13	5/8	M16	.360"
13816A	9010.25.14	11/16	M18	.406"
13817A	9010.25.15	3/4	-	.442"



# TAPPING SOLUTIONS



## Syncrolized Accessories

### SIZE 1

### SIZE 2



**RATED UP TO 1,500 PSI**



#### Syncrolize Coolant Sealed Nut Size 1 ER16

EDP	Part Number	Collet Size	Size
<b>13128A</b>	9134.16.28	ER16	1

#### Syncrolize Coolant Sealed Nut Size 2 ER25

EDP	Part Number	Collet Size	Size
<b>13129A</b>	9134.25.42	ER25	2

#### Syncrolize Coolant Sealed Rings Size 1 ER16

EDP	Part Number	Inch Tap	Metric Tap	ID Ø
<b>13112A</b>	9810.16.141	#0-6	M1.6-M3.5	0.141
<b>13113A</b>	9810.16.168	8	M4	0.168
<b>13114A</b>	9810.16.194	10	M5	0.194
<b>13115A</b>	9810.16.220	12	-	0.220
<b>13116A</b>	9810.16.255	1/4	M6	0.255
<b>13117A</b>	9810.16.318	5/16,7/16	M7, M8	0.318
<b>13118A</b>	9810.16.381	3/8	M10	0.381
<b>13120A</b>	9810.16.367	1/2	M12	0.367

#### Syncrolize Coolant Sealed Rings Size 2 ER25

EDP	Part Number	Inch Tap	Metric Tap	ID Ø
<b>13121A</b>	9810.25.381	3/8	M10	0.381
<b>13122A</b>	9810.25.323	7/16	-	0.323
<b>13123A</b>	9810.25.367	1/2	M12	0.367
<b>13124A</b>	9810.25.429	9/16	M14	0.429
<b>13125A</b>	9810.25.480	5/8	M16	0.480
<b>13126A</b>	9810.25.542	11/16	M18	0.542
<b>13127A</b>	9810.25.590	3/4	-	0.590



#### Syncrolize Extension System

EDP	Part Number	Product Description	Length
<b>13100B</b>	23411-MOD	Tap Adapter Body	0.197
<b>13101B</b>	42150/25	Extension	0.984
<b>13102B</b>	42150/50	Extension	1.969
<b>13103B</b>	42147/ER16	ER Terminal	1.969

#### Syncrolize Extension System

EDP	Part Number	Product Description	Length
<b>13104B</b>	23611-MOD	Tap Adapter Body	0.276
<b>13105B</b>	42250/50	Extension	1.969
<b>13106B</b>	42250/100	Extension	3.937
<b>13107B</b>	42247/ER25	ER Terminal	3.110



*Up to 9 inches of gage length*

#### ER16 Positive Drive Tap Collets

EDP	Part Number	Inch Tap	Metric Tap	SQ.
<b>X13700A</b>	9011.16.141	#0-6	M1.6-M3.5	.110"
<b>X13701A</b>	9011.16.168	#8	M4	.131"
<b>X13702A</b>	9011.16.194	#10	M5	.152"
<b>X13703A</b>	9011.16.220	#12	-----	.165"
<b>X13704A</b>	9011.16.255	1/4"	M6	.191"
<b>X13705A</b>	9011.16.318	5/16"	M7, M8	.238"
<b>X13706A</b>	9011.16.381	3/8"	M10	.286"
<b>X13707A</b>	9011.16.367	1/2"	M12	.275"

#### ER25 Positive Drive Tap Collets

EDP	Part Number	Inch Tap	Metric Tap	SQ.
<b>X13717A</b>	9011.25.141	#0-6	M1.6-M3.5	.110"
<b>X13718A</b>	9011.25.168	#8	M4	.131"
<b>X13719A</b>	9011.25.194	#10	M5	.152"
<b>X13720A</b>	9011.25.220	#12	-----	.165"
<b>X13721A</b>	9011.25.255	1/4"	M6	.191"
<b>X13722A</b>	9011.25.318	5/16"	M7, M8	.238"
<b>X13723A</b>	9011.25.381	3/8"	M10	.286"
<b>X13724A</b>	9011.25.275	1/2"	M12	.275"

### Syncrolize Straight Shank

EDP	Part Number	Shank	Nose Ø	Size	Gage Length	Tap Capacity
13008B	23400-INC1	1"	1.693	1	1.299	#0-9/16"
13017B	23600-INC1	1"	2.323	2	2.125	5/16-7/8"

### Rigid Straight Shank Tap Holder w/coolant thru

EDP	Part Number	Shank	Nose Ø	Size	Gage Length	Tap Capacity
12204B	21480/INC1	1"	1.299	1	1.575	#0-9/16"
12205B	21680/INC1	1"	1.969	2	2.480	5/16-7/8"
12206B	21880/INC1-1/2	1-1/2"	1.969	3	2.480	1/2-1-3/8"

### Tension & Compression Straight Shank

EDP	Part Number	Shank	Nose Ø	Size	Gage Length	Tap Capacity	Compensation Tension/Comp.	
12000B	32400/INC1	1"	1.496	1	0.748	#0-9/16"	0.35	0.35
12001B	32600/INC1	1"	2.165	2	1.220	5/16-7/8"	0.59	0.59
12002B	32600/INC1 1/2	1-1/2"	2.165	2	1.220	5/16-7/8"	0.59	0.59

### Tension & Compression Straight Shank w/Coolant Thru

EDP	Part Number	Shank	Nose Ø	Size	Gage Length	Tap Capacity	Compensation Tension/Comp.	
12003B	36400/INC1	1"	1.535	1	0.748	#0-9/16"	0.30	0.30
12202B	36600/INC1	1"	2.087	2	1.220	5/16-7/8"	0.59	0.59
12203B	36600/INC1-1/2	1-1/2"	2.087	2	1.220	5/16-7/8"	0.39	0.39

### CAT Modular Shanks

EDP	Part Number	Shank	Bore Ø
13200B	1806.254.40ACAT	CAT40	1"
13201B	1806.254.50ACAT	CAT50	1"
13202B	1806.381.50ACAT	CAT50	1-1/2"

### BT Modular Shanks

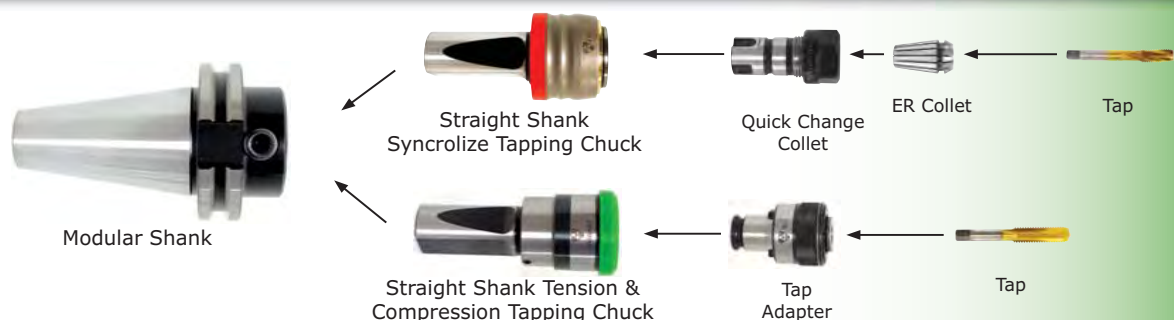
EDP	Part Number	Shank	Bore Ø
13203B	1806.25.40BT	BT40	1"
13204B	1806.25.50BT	BT50	1"
13205B	1806.40.50BT	BT50	1-1/2"

### NMTB Modular Shanks

EDP	Part Number	Shank	Bore Ø
13206B	1806.254.40INC1	NMTB40	1"



## Modular Shank System for Syncrolize & Tension & Compression





# TAPPING SOLUTIONS



## Tension & Compression

CAT, BT, Morse & VDI Shank



### CAT Shank

EDP	Part Number	Taper	d	D	I	Size	Compensation Tension/Comp.	
11050B	32400/40CAT	40CAT	0.748	1.500	2.990	1	0.35	0.35
11051B	32400/50CAT	50CAT	0.748	1.500	2.990	1	0.35	0.35
11052B	32600/40CAT	40CAT	1.220	2.170	3.940	2	0.59	0.59
11053B	32600/50CAT	50CAT	1.220	2.170	3.900	2	0.59	0.59
11054B	32800/40CAT	40CAT	1.890	3.110	5.430	3	0.94	0.94
11055B	32800/50CAT	50CAT	1.890	3.110	5.240	3	0.94	0.94
11056B	32900/40CAT	40CAT	2.362	3.860	6.060	4	1.02	1.02
11057B	32900/50CAT	50CAT	2.362	3.860	5.790	4	1.02	1.02

### BT Shank

EDP	Part Number	Taper	d	D	I	Size	Compensation Tension/Comp.	
11200B	32400/30BT	30BT	0.748	1.500	2.480	1	0.35	0.35
11201B	32400/40BT	40BT	0.748	1.500	2.680	1	0.35	0.35
11202B	32400/50BT	50BT	0.748	1.500	3.150	1	0.35	0.35
11203B	32600/30BT	30BT	1.220	2.170	3.780	2	0.59	0.59
11204B	32600/40BT	40BT	1.220	2.170	3.660	2	0.59	0.59
11205B	32600/50BT	50BT	1.220	2.170	4.020	2	0.59	0.59
11206B	32800/40BT	40BT	1.890	3.110	5.430	3	0.94	0.94
11207B	32800/50BT	50BT	1.890	3.110	5.240	3	0.94	0.94
11208B	32900/40BT	40BT	2.362	3.860	6.180	4	1.02	1.02
11209B	32900/50BT	50BT	2.362	3.860	5.790	4	1.02	1.02

### Morse Taper Shank

EDP	Part Number	Taper	d	D	I	Size	Compensation Tension/Comp.	
12025B	32400/2	MT2	0.748	1.496	1.811	1	0.35	0.35
12026B	32400/3	MT3	0.748	1.496	1.811	1	0.35	0.35
12023B	32600/3	MT3	1.220	2.165	2.717	2	0.59	0.59
12028B	32600/4	MT4	1.220	2.165	2.756	2	0.59	0.59
12024B	32800/4	MT4	1.890	3.110	4.252	3	0.94	0.94
12030B	32800/5	MT5	1.890	3.110	4.055	3	0.94	0.94
12031B	32900/5	MT5	2.362	3.858	4.567	4	1.02	1.02

### VDI Shank

EDP	Part Number	Size	d	D	I	Size	Compensation Tension/Comp.	
14401B	32400/ VDI 20	VDI 20	0.748	1.496	2.165	1	0.35	0.35
14402B	32400/ VDI 25	VDI 25	0.748	1.496	2.165	1	0.35	0.35
14403B	32400/ VDI 30	VDI 30	0.748	1.496	2.165	1	0.35	0.35
14404B	32400/ VDI 40	VDI 40	0.748	1.496	2.165	1	0.35	0.35
14405B	32600/ VDI 20	VDI 20	1.220	2.165	2.165	2	0.59	0.59
14406B	32600/ VDI 25	VDI 25	1.220	2.165	3.031	2	0.59	0.59
14407B	32600/ VDI 30	VDI 30	1.220	2.165	3.031	2	0.59	0.59
14408B	32600/ VDI 40	VDI 40	1.220	2.165	3.031	2	0.59	0.59
14409B	32800/ VDI 40	VDI 40	1.890	3.110	4.331	3	0.94	0.94
14410B	32800/ VDI 50	VDI 50	1.890	3.110	4.331	3	0.94	0.94

### HSK Tension & Compression Tapping Chucks

EDP	Part Number	Taper	d	D	L	Size	Compensation Tension/Comp.	
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#### HSK32 Form E Shank

11376B	34400/H32E	32E	0.748	1.614	3.150	1	0.29	0.29
11377B	34400/H32ES	32E	0.748	1.614	2.972	1	0.47	0.00

#### HSK40 Form A Shank

11361B	34400/H40A	40A	0.748	1.614	3.150	1	0.29	0.29
11362B	34400/H40AS	40A	0.748	1.614	2.972	1	0.47	0.00
11367B	34600/H40A	40A	1.220	2.362	4.055	2	0.39	0.39
11368B	34600/H40AS	40A	1.220	2.362	3.819	2	0.63	0.00

#### HSK40 Form E Shank

11378B	34400/H40E	40E	0.748	1.614	3.150	1	0.29	0.29
11379B	34400/H40ES	40E	0.748	1.614	2.972	1	0.47	0.00
11384B	34600/H40E	40E	1.220	2.362	4.055	2	0.39	0.39
11385B	34600/H40ES	40E	1.220	2.362	3.819	2	0.63	0.00

#### HSK50 Form A Shank

11400B	34400/H50A	50A	0.748	1.614	2.835	1	0.29	0.29
11363B	34400/H50AS	50A	0.748	1.614	2.657	1	0.47	0.00
11404B	34600/H50A	50A	1.220	2.362	4.331	2	0.39	0.39
11369B	34600/H50AS	50A	1.220	2.362	4.094	2	0.63	0.00

#### HSK50 Form E Shank

11380B	34400/H50E	50E	0.748	1.614	2.835	1	0.29	0.29
11381B	34400/H50ES	50E	0.748	1.614	2.657	1	0.47	0.00
11386B	34600/H50E	50E	1.220	2.362	4.331	2	0.39	0.39
11387B	34600/H50ES	50E	1.220	2.362	4.094	2	0.63	0.00

#### HSK63 Form A Shank

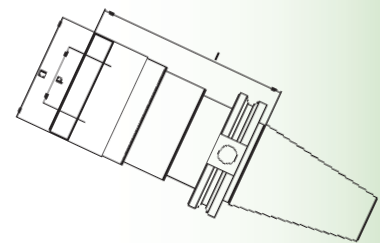
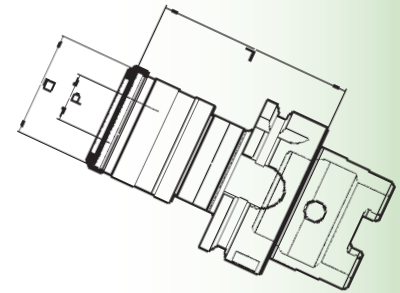
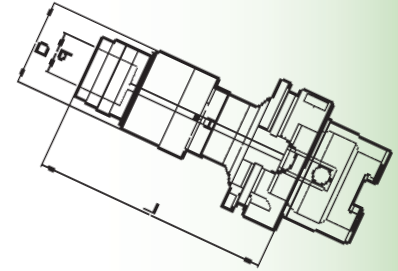
11401B	34400/H63A	63A	0.748	1.614	2.835	1	0.29	0.29
11364B	34400/H63AS	63A	0.748	1.614	2.657	1	0.47	0.00
11405B	34600/H63A	63A	1.220	2.362	4.331	2	0.39	0.39
11370B	34600/H63AS	63A	1.220	2.362	4.094	2	0.63	0.00
11408B	34800/H63A	63A	1.890	3.386	5.551	3	0.69	0.69
11373B	34800/H63AS	63A	1.890	3.386	5.118	3	1.18	0.00

#### HSK63 Form E Shank

11382B	34400/H63E	63E	0.748	1.614	2.835	1	0.29	0.29
11383B	34400/H63ES	63E	0.748	1.614	2.657	1	0.47	0.00
11388B	34600/H63E	63E	1.220	2.362	4.331	2	0.39	0.39
11389B	34600/H63ES	63E	1.220	2.362	4.094	2	0.63	0.00

#### HSK100 Form A Shank

11403B	34400/H100A	100A	0.748	1.614	3.150	1	0.29	0.29
11366B	34400/H100AS	100A	0.748	1.614	2.972	1	0.47	0.00
11407B	34600/H100A	100A	1.220	2.362	3.937	2	0.39	0.39
11372B	34600/H100AS	100A	1.220	2.362	3.701	2	0.63	0.00
11410B	34800/H100A	100A	1.890	3.386	5.669	3	0.69	0.69
11375B	34800/H100AS	100A	1.890	3.386	5.217	3	1.18	0.00



**"S" in the part number**  
means the chuck is equipped with compensation in tension mode only.

### Size Ranges

Size	Tap Capacity	Tension/ Compression Range		Tap Adapter
1	#0-6 - 9/16	0.35	0.35	19/1 or 19/11
2	3/8 - 7/8"	0.59	0.59	31/2 or 31/12
3	1/2 - 1-3/8"	0.94	0.94	48/3 or 48/13
4	1-7/16 - 2	1.02	1.02	60/4 or 60/14

# TAPPING SOLUTIONS



## Rigid Tapping

CAT, BT, HSK & Morse Shank



### CAT40 Rigid Tapping Chucks

EDP	Part Number	Taper	L	D	d	Size
<b>11100B</b>	21480/40CAT	CAT40	2.950	1.310	0.748	1
<b>11102B</b>	21680/40CAT	CAT40	3.380	1.970	1.220	2
<b>11104B</b>	21880/40CAT	CAT40	4.800	2.830	1.890	3

### CAT50 Rigid Tapping Chucks

EDP	Part Number	Taper	L	D	d	Size
<b>11101B</b>	21480/50CAT	CAT50	2.950	1.310	0.748	1
<b>11103B</b>	21680/50CAT	CAT50	3.860	1.970	1.220	2
<b>11105B</b>	21880/50CAT	CAT50	4.800	2.830	1.890	3



### BT Rigid Tapping Chucks

EDP	Part Number	Taper	L	D	d	Size
<b>12174B</b>	21480/30BT	30	2.441	1.299	0.748	1
<b>12175B</b>	21680/30BT	30	3.346	1.969	1.220	2
<b>12128B</b>	21480/40BT	40	2.638	1.299	0.748	1
<b>11181B</b>	21680/40BT	40	3.543	1.969	1.220	2
<b>11182B</b>	21880/40BT	40	4.606	2.835	1.890	3
<b>11183B</b>	21480/50BT	50	3.071	1.299	0.748	1
<b>11184B</b>	21680/50BT	50	3.976	1.969	1.220	2
<b>11185B</b>	21880/50BT	50	4.921	2.835	1.890	3

### HSK Rigid Tapping Chucks

EDP	Part Number	Taper	L	D	d	Size
<b>12150B</b>	21480/H40A	HSK40A	2.244	1.299	0.748	1
<b>12151B</b>	21480/H50A	HSK50A	2.480	1.299	0.748	1
<b>12152B</b>	21480/H63A	HSK63A	2.480	1.299	0.748	1
<b>12153B</b>	21480/H80A	HSK80A	2.480	1.299	0.748	1
<b>12154B</b>	21480/H100A	HSK100A	2.717	1.299	0.748	1
<b>12155B</b>	21680/H40A	HSK40A	3.583	1.969	1.220	2
<b>12156B</b>	21680/H50A	HSK50A	3.858	1.969	1.220	2
<b>12157B</b>	21680/H63A	HSK63A	3.504	1.969	1.220	2
<b>12158B</b>	21680/H80A	HSK80A	3.504	1.969	1.220	2
<b>12159B</b>	21680/H100A	HSK100A	3.622	1.969	1.220	2
<b>12160B</b>	21880/H63A	HSK63A	5.079	2.835	1.890	3
<b>12161B</b>	21880/H80A	HSK80A	5.079	2.835	1.890	3
<b>12162B</b>	21880/H100A	HSK100A	4.567	2.835	1.890	3



### Morse Taper Rigid Tapping Chucks

EDP	Part Number	Taper	L	D	d	Size
<b>12178B</b>	21480/2	2	1.772	1.299	0.748	1
<b>12179B</b>	21480/3	3	1.772	1.299	0.748	1
<b>12180B</b>	21680/2	2	2.402	1.969	1.220	2
<b>12181B</b>	21680/3	3	2.402	1.969	1.220	2
<b>12182B</b>	21680/4	4	2.402	1.969	1.220	2
<b>12183B</b>	21880/4	4	3.622	2.835	1.890	3



# REVERSE Tapping



## TECHNICAL CHARACTERISTICS

Speed up to 1,500 RPM

Ratio 1:1 in both rotation directions

Release stroke .1378 inches

Tapping depth controlled

Interchangeable shank

DIN 1835 B+E cylindrical shank

Quick change tap adapter

Suitable for tap adapter with or without friction clutch

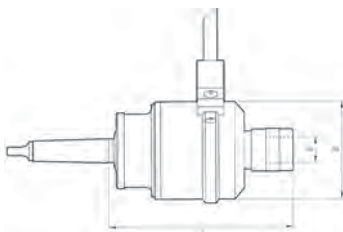
Torque Control Clutch to increase tool life in the Tap adapter 19/1

Variable orientation device

Tap capacity from #0 to 5/16"



**Grease Insertion Plug**  
Add Grease Every 40,000 Threads



AVAILABLE IN  
CAT, BT & NMTB  
**SHANKS**  
**PAGE 21**

### Reverse Tapping

EDP	Part Number	Product Description	Tap Capacity	Shank Diameter
12020A	24450/D25.4	Reverse Tapping Chuck	#0 to 5/16"	1"

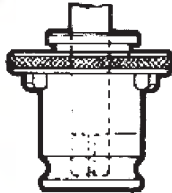


# TAPPING SOLUTIONS



## Rigid Tap Adapters

# RIGID



Best suited for through holes and in applications where tap breakage is not a concern.



Tap Size		STI	Size 1		Size 2		Size 3		Size 4	
ANSI	ISO		Part Number	EDP	Part Number	EDP	Part Number	EDP	Part Number	EDP
#0-6	M1.6-M3.5	2,3,4	19/11 4036	<b>11600B</b>						
# 8	M4	5	19/11 4041	<b>11602B</b>						
# 10	M5	6	19/11 4048	<b>11604B</b>						
# 12		8	19/11 4054	<b>11605B</b>						
1/4	M6	10	19/11 4063	<b>11606B</b>						
5/16	M8	12, 1/4	19/11 4079	<b>11607B</b>	31/12 4079	<b>11614B</b>				
3/8	M10	5/16	19/11 4095	<b>11608B</b>	31/12 4095	<b>11615B</b>				
7/16	M11		19/11 4111	<b>11611B</b>	31/12 4111	<b>11616B</b>				
1/2	M12	3/8	19/11 4127	<b>11612B</b>	31/12 4127	<b>11617B</b>	48/13 4127	<b>11627B</b>		
9/16	M14	7/16	19/11 4142	<b>11613B</b>	31/12 4142	<b>11618B</b>	48/13 4142	<b>11628B</b>		
5/8	M16	1/2			31/12 4158	<b>11619B</b>	48/13 4158	<b>11629B</b>		
11/16	M18	9/16			31/12 4174	<b>11620B</b>	48/13 4174	<b>11630B</b>		
3/4					31/12 4190C	<b>11621B</b>	48/13 4190	<b>11631B</b>		
13/16	M20				31/12 4206C	<b>11622B</b>	48/13 4206	<b>11632B</b>		
7/8	M22	3/4			31/12 4222C	<b>11623B</b>	48/13 4222	<b>11633B</b>		
15/16	M24						48/13 4238	<b>11634B</b>		
1	M25	7/8					48/13 4254	<b>11635B</b>		
1-1/16	M27						48/13 4286	<b>11636B</b>		
1-1/8	M27						48/13 4286	<b>11636B</b>		
1-3/16	M30	1					48/13 4317	<b>11637B</b>		
1-1/4	M30	1					48/13 4317	<b>11637B</b>		
1-5/16	M33	1-1/8					48/13 4349	<b>11638B</b>		
1-3/8	M33	1-1/8					48/13 4349	<b>11638B</b>		
1-1/2									60/14 4381C	<b>11643B</b>
1-7/16									60/14 4381C	<b>11643B</b>
1-5/8									60/14 4412C	<b>11644B</b>
1-3/4									60/14 4444C	<b>11645B</b>
1-7/8									60/14 4476C	<b>11646B</b>
1/8 NPT			19/11 4097C	<b>11609B</b>						
1/4 NPT					31/12 4131C	<b>11624B</b>				
3/8 NPT					31/12 4166C	<b>11625B</b>	48/13 4166C	<b>11639B</b>		
1/2 NPT					31/12 4209C	<b>11626B</b>	48/13 4209C	<b>11640B</b>		
3/4 NPT							48/13 4264C	<b>11641B</b>		
1 NPT							48/13 4332C	<b>11642B</b>		

# TORQUE CONTROL

Torque control adapters are the best solution for protecting your taps and work pieces from tap breakage. The prime application for torque control adapters is Blind Hole Tapping and where Chip Evacuation is a concern.



Tap Size			Size 1		Size 2		Size 3	
ANSI	ISO	STI	Part Number	EDP	Part Number	EDP	Part Number	EDP
#0-6	M1.6-M3.5	2,3,4	19/1 4036	<b>11800B</b>				
# 8	M4	5	19/1 4041	<b>11801B</b>				
# 10	M5	6	19/1 4048	<b>11802B</b>				
# 12		8	19/1 4054	<b>11803B</b>				
1/4	M6	10	19/1 4063	<b>11804B</b>				
5/16	M8	12, 1/4	19/1 4079	<b>11805B</b>	31/2 4079	<b>11811B</b>		
3/8	M10	5/16	19/1 4095	<b>11806B</b>	31/2 4095	<b>11812B</b>		
7/16	M11		19/1 4111	<b>11807B</b>	31/2 4111	<b>11813B</b>		
1/2	M12	3/8	19/1 4127	<b>11808B</b>	31/2 4127	<b>11814B</b>	48/3 4127	<b>11825B</b>
9/16	M14	7/16	19/1 4142	<b>11809B</b>	31/2 4142	<b>11815B</b>	48/3 4142	<b>11826B</b>
5/8	M16	1/2			31/2 4158	<b>11816B</b>	48/3 4158	<b>11827B</b>
11/16	M18	9/16			31/2 4174	<b>11817B</b>	48/3 4174	<b>11828B</b>
3/4					31/2 4190	<b>11818B</b>	48/3 4190	<b>11829B</b>
13/16	M20				31/2 4206	<b>11819B</b>	48/3 4206	<b>11830B</b>
7/8	M22	3/4			31/2 4222	<b>11820B</b>	48/3 4222	<b>11831B</b>
15/16	M24						48/3 4238	<b>11833B</b>
1	M25	7/8					48/3 4254	<b>11834B</b>
1-1/16	M27						48/3 4286	<b>11835B</b>
1-1/8	M27						48/3 4286	<b>11835B</b>
1-3/16	M30	1					48/3 4317	<b>11836B</b>
1-1/4	M30	1					48/3 4317	<b>11836B</b>
1-5/16	M33	1-1/8					48/3 4349	<b>11837B</b>
1-3/8	M33	1-1/8					48/3 4349	<b>11837B</b>
1/8 NPT			19/1 4097C	<b>11810B</b>				
1/4 NPT					31/2 4131C	<b>11822B</b>		
3/8 NPT					31/2 4166C	<b>11823B</b>	48/3 4166C	<b>11838B</b>
1/2 NPT					31/2 4209C	<b>11824B</b>	48/3 4209C	<b>11839B</b>
3/4 NPT							48/3 4264C	<b>11840B</b>
1 NPT							48/3 4332C	<b>11841B</b>



# DRILL CHUCKS



**LLAMBRICH USA**

**HEXA Super Precision**  
CAT, BT & HSK Shank

**Maximum Run-Out .0012"**  
(.0006" upon request)

### CAT Form A - No Coolant

EDP	Part Number	Taper	inches	Ø	L1	L2
L40016B	HX-10 CA-40	CAT40	0 - 3/8"	1.69	3.94	4.27
L40018B	HX-10 CA-50	CAT50	0 - 3/8"	1.69	3.70	4.04
L40020B	HX-13 CA-40	CAT40	1/32" - 1/2"	2.09	4.41	4.85
L40022B	HX-13 CA-50	CAT50	1/32" - 1/2"	2.09	4.61	5.04
L40024B	HX-16 CA-40	CAT40	1/8" - 5/8"	2.25	4.53	5.00
L40026B	HX-16 CA-50	CAT50	1/8" - 5/8"	2.25	4.33	4.81

### BT Form A - No Coolant

EDP	Part Number	Taper	inches	Ø	L1	L2
L40004B	HX-10 BT-40	BT40	0 - 3/8"	1.69	3.39	3.74
L40006B	HX-10 BT-50	BT50	0 - 3/8"	1.69	3.82	4.18
L40008B	HX-13 BT-40	BT40	1/32" - 1/2"	2.09	3.90	4.37
L40010B	HX-13 BT-50	BT50	1/32" - 1/2"	2.09	4.33	4.81
L40012B	HX-16 BT-40	BT40	1/8" - 5/8"	2.25	4.02	4.45
L40014B	HX-16 BT-50	BT50	1/8" - 5/8"	2.25	4.45	4.89

### HSK Form A - No Coolant

EDP	Part Number	Taper	inches	Ø	L1	L2
L40028B	HX-13 HSK-63	HSK63	1/32 - 1/2"	2.09	4.27	4.71
L40030B	HX-13 HSK-100	HSK100	1/32" - 1/2"	2.09	4.53	4.96
L40032B	HX-16 HSK-63	HSK63	1/8" - 5/8"	2.25	4.37	4.85
L40034B	HX-16 HSK-100	HSK100	1/8" - 5/8"	2.25	4.63	5.10

### CAT Form B+AD - Coolant Thru

EDP	Part Number	Taper	inches	Ø	L1	L2
L40017B	HX-10 CA-40/R	CAT40	0 - 3/8"	1.69	3.94	4.27
L40019B	HX-10 CA-50/R	CAT50	0 - 3/8"	1.69	3.70	4.04
L40021B	HX-13 CA-40/R	CAT40	1/32" - 1/2"	2.09	4.41	4.85
L40023B	HX-13 CA-50/R	CAT50	1/32" - 1/2"	2.09	4.61	5.04
L40025B	HX-16 CA-40/R	CAT40	1/8" - 5/8"	2.25	4.53	5.00
L40027B	HX-16 CA-50/R	CAT50	1/8" - 5/8"	2.25	4.33	4.81

### BT Form B+AD - Coolant Thru

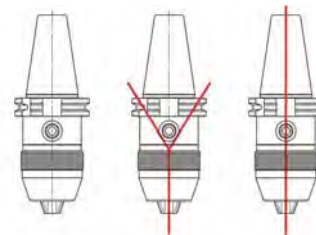
EDP	Part Number	Taper	inches	Ø	L1	L2
L40005B	HX-10 BT-40/R	BT40	0 - 3/8"	1.69	3.39	3.74
L40007B	HX-10 BT-50/R	BT50	0 - 3/8"	1.69	3.82	4.18
L40009B	HX-13 BT-40/R	BT40	1/32" - 1/2"	2.09	3.90	4.37
L40011B	HX-13 BT-50/R	BT50	1/32" - 1/2"	2.09	4.33	4.81
L40013B	HX-16 BT-40/R	BT40	1/8" - 5/8"	2.25	4.02	4.45
L40015B	HX-16 BT-50/R	BT50	1/8" - 5/8"	2.25	4.45	4.89

### HSK Form B+AD - Coolant Thru

EDP	Part Number	Taper	inches	Ø	L1	L2
L40029B	HX-13 HSK-63 /R	HSK-63	1/32" - 1/2"	2.09	4.27	4.71
L40031B	HX-13 HSK-100 /R	HSK-100	1/32" - 1/2"	2.09	4.53	4.96
L40033B	HX-16 HSK-63 /R	HSK-63	1/8" - 5/8"	2.25	4.37	4.85
L40035B	HX-16 HSK-100 /R	HSK-100	1/8" - 5/8"	2.25	4.63	5.10



## HEXA Super Precision VDI, R8, Morse & Straight Shank



**A: None Form B Form AD**

### VDI

EDP	Part Number	Shank Type	inches	Ø	L1	L2
L40036B	HX-13 VDI-30	VDI-30	1/32" - 1/2"	1.69	3.72	4.16
L40037B	HX-13 VDI-40	VDI-40	1/32" - 1/2"	2.09	3.72	4.16
L40038B	HX-13 VDI-50	VDI-50	1/32" - 1/2"	2.09	3.84	4.27
L40039B	HX-16 VDI-30	VDI-30	1/8" - 5/8"	2.25	3.82	4.29
L40040B	HX-16 VDI-40	VDI-40	1/8" - 5/8"	2.25	3.82	4.29
L40041B	HX-16 VDI-50	VDI-50	1/8" - 5/8"	2.25	3.94	4.41



**Right / Left Rotation**

### Morse Taper

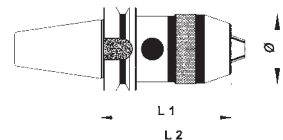
EDP	Part Number	Shank Type	inches	Ø	L1	L2
L40042B	HX-13 MT-2	MT-2	1/32" - 1/2"	2.09	3.76	4.20
L40043B	HX-13 MT-3	MT-3	1/32" - 1/2"	2.09	3.76	4.20
L40044B	HX-13 MT-4	MT-4	1/32" - 1/2"	2.09	3.76	4.20
L40045B	HX-16 MT-2	MT-2	1/8" - 5/8"	2.25	3.86	4.22
L40046B	HX-16 MT-3	MT-3	1/8" - 5/8"	2.25	3.86	4.22
L40047B	HX-16 MT-4	MT-4	1/8" - 5/8"	2.25	3.86	4.22



**Over 75 ft./lbs. of Gripping Torque**

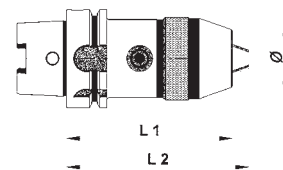
### Straight Shank

EDP	Part Number	Shank Ø	inches	Ø	L1	L2
L40048B	HX-13	5/8"	1/32 - 1/2"	2.09	3.76	4.20



### R-8

EDP	Part Number	Taper	inches	Ø	L1	L2
L40049B	HX-13	R-8	1/32 - 1/2"	2.09	3.74	4.18
L40050B	HX-16	R-8	1/8" - 5/8"	2.25	3.84	4.31



### HEXA-B

EDP	Part Number	Taper	inches	Ø	L1	L2
L40051B	HX-10	B	0 - 3/8"	1.69	2.36	2.72
L40052B	HX-10	B/R	0 - 3/8"	1.69	2.36	2.72
L40053B	HX-13	B	1/32" - 1/2"	2.09	2.88	3.35
L40054B	HX-13	B/R	1/32" - 1/2"	2.09	2.88	3.35
L40055B	HX-16	B	1/8" - 5/8"	2.25	2.99	3.43
L40056B	HX-16	B/R	1/8" - 5/8"	2.25	2.99	3.43



**Hexagonal Key**  
All HEXA-SYSTEM Drill chucks are supplied with a hexagonal key for tightening.

# DRILL CHUCKS



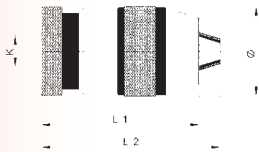
**LAMBRICHUSA**

## Keyless

JKP, JKT & JK Solid Series

### JKP SERIES

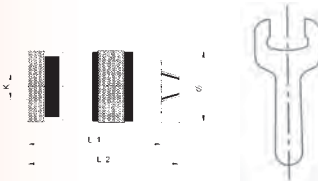
100% of JKP drill chucks are individually controlled to ensure not to exceed a maximum total indicator run-out of 0.0016". The Self-Tighten feature automatically increases clamping, force proportional in increase torque to prevent tool shank slippage. This is standard for right-hand rotations applications, left hand rotation is available upon request.



### JKT SERIES

The JKT drill chuck series offers the same features as JKP series with the addition of milled wrench flats to be used in applications where more tool clamping force is necessary.

A properly tightened JKT better resists loosening on high speed machines that have instant spindle stop.



### JK SOLID SERIES

The JK-Solid is a high precision keyless drill chuck, with the advantages that the arbor is integrated into the drill chuck.

100% inspection of every JK-Solid drill chuck is individually controlled to ensure not to exceed a maximum total integrated run-out of 0.0016".



### JKP Series

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L31126B	JKP-30 J-0	J-0	0 - 1/8"	0.97	1.73	1.87
L31127B	JKP-30 J-1	J-1	0 - 1/8"	0.97	1.73	1.87
L31128B	JKP-30 R-5/16	R-5/16	0 - 1/8"	0.97	1.73	1.87
L31121B	JKP-65 J-1	J-1	0 - 1/4"	1.30	2.44	2.76
L40002B	JKP-80 J-1	J-1	0 - 5/16"	1.50	2.64	2.92
L9679B	JKP-80 J-2S	J-2S	0 - 5/16"	1.50	2.64	2.92
L9681B	JKP-100 J-2	J-2	0 - 3/8"	1.69	3.19	3.51
L9680B	JKP-100 J-33	J-33	0 - 3/8"	1.69	3.19	3.51
L9683B	JKP-130 J-2	J-2	1/32" - 1/2"	1.93	3.59	4.06
L9682B	JKP-130 J-33	J-33	1/32" - 1/2"	1.93	3.59	4.06
L9684B	JKP-130 J-6	J-6	1/32" - 1/2"	1.93	3.59	4.06
L40003B	JKP-160 J-33	J-33	1/8" - 5/8"	2.17	3.74	4.22
L9685B	JKP-160 J-6	J-6	1/8" - 5/8"	2.17	3.74	4.22

### JKP Stainless Steel Chucks

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L40000B	JKP-30 R-3/8 SS*	R-3/8	0 - 1/8"	0.97	1.73	1.87
L40001B	JKP-65 R-3/8 SS*	R-3/8	0 - 1/4"	1.30	2.44	2.76

### JKT Series

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L31122B	JKT-65 J-1	J-1	0 - 1/4"	0.97	1.73	1.87
L30526B	JKT-80 J-2S	J-2S	0 - 5/16"	0.97	1.73	1.87
L30533B	JKT-100 J-2	J-2	0 - 3/8"	0.97	1.73	1.87
L30532B	JKT-100 J-33	J-33	0 - 3/8"	0.97	1.73	1.87
L30527B	JKT-130 J-2	J-2	1/32" - 1/2"	1.30	2.44	2.76
L30528B	JKT-130 J-33	J-33	1/32" - 1/2"	1.30	2.44	2.76
L30529B	JKT-130 J-6	J-6	1/32" - 1/2"	1.50	2.64	2.92
L30530B	JKT-160 J-6	J-6	1/8" - 5/8"	1.50	2.64	2.92

### JK-Solid Morse Taper

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L31406B	JK-08 MT2	MT2	0 - 5/16"	1.5	2.56	2.84
L31407B	JK-10 MT2	MT2	0 - 3/8"	1.69	2.88	3.23
L31408B	JK-13 MT2	MT2	1/32" - 1/2"	1.89	3.15	3.62
L31409B	JK-13 MT3	MT3	1/32" - 1/2"	1.89	3.15	3.62
L31410B	JK-13 MT4	MT4	1/32" - 1/2"	1.89	3.15	3.62
L31413B	JK-16 MT2	MT2	1/8" - 5/8"	2.13	3.35	3.78
L31414B	JK-16 MT3	MT3	1/8" - 5/8"	2.13	3.35	3.78
L31415B	JK-16 MT4	MT4	1/8" - 5/8"	2.13	3.35	3.78

### JK-Solid Straight Shank

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L31412B	JK-130 5/8	5/8	1/32" - 1/2"	1.89	3.15	3.62

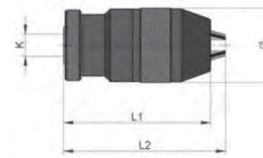
### JK-Solid R-8

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L31411B	JK-130 R-8	R-8	1/32" - 1/2"	1.89	3.23	3.55
L31416B	JK-160 R-8	R-8	1/8" - 5/8"	2.13	3.43	3.86



### JK Industrial - Medium Duty

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L40158B	JK 04 J-1	1JT	0 - 5/32"	1.02	1.97	2.17
L40159B	JK 06 J-1	1JT	0 - 1/4"	1.30	2.56	2.76
L40160B	JK 06 R-3/8	3/8-24	0 - 1/4"	1.31	2.68	2.91
L40161B	JK 08 R-3/8	3/8-24	0 - 5/16"	1.32	2.68	2.91
L40162B	JK 08 R-1/2	1/2-20	0 - 5/16"	1.33	2.68	2.91
L40163B	JK 08 J-1	1JT	0 - 5/16"	1.34	2.56	2.76
L40164B	JK 08 J-2S	2JT	0 - 5/16"	1.35	2.56	2.76
L40165B	JK 10 R-3/8	3/8-24	0 - 3/8"	1.54	2.87	3.15
L40166B	JK 10 R-1/2	1/2-20	0 - 3/8"	1.54	2.87	3.15
L40167B	JK 10 J-2	2JT	0 - 3/8"	1.61	3.06	3.36
L40221B	JK 10 J-33	33JT	0 - 3/8"	1.54	2.87	3.15
L40168B	JK 13 J-2	2JT	1/32"- 1/2"	1.85	3.65	4.03
L40169B	JK 13 J-33	33JT	1/32"- 1/2"	1.85	3.65	4.03
L40170B	JK 13 J-6	6JT	1/32"- 1/2"	1.85	3.62	4.03
L40171B	JK 13 R-3/8	3/8-24	1/32"- 1/2"	1.61	3.06	3.36
L40172B	JK 13 R-1/2	1/2-20	1/32"-1/2"	1.61	3.06	3.36
L40173B	JK 16 J-33	33JT	1/8"-5/8"	2.02	3.73	4.14
L40174B	JK 16 J-6	6JT	1/8"-5/8"	2.02	3.73	4.14
L40175B	JK 16 R-1/2	1/2-20	1/8"-5/8"	2.02	3.73	4.14
L40176B	JK 16 R-5/8	5/8-16	1/8"-5/8"	2.02	3.73	4.14
L40177B	JK 20 J-3	3JT	3/64"-3/4"	2.51	4.66	5.03



### All Wear Parts Hardened for Long Life

#### CPM - Metal Sleeves - For Portable Machines

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L40201B	CPM-10 R-3/8	3/8"x24 UNF	1/32"-3/8"	1.58	2.21	2.6
L40202B	CPM-10 R-1/2	1/2"x20 UNF	1/32"-3/8"	1.58	2.21	2.6
L40203B	CPM-13 R-3/8	3/8"x24 UNF	1/16"-1/2"	1.65	2.68	2.96
L40204B	CPM-13 R-1/2	1/2"x20 UNF	1/16"-1/2"	1.65	2.68	2.96

**CLICK LOCKING MECHANISM**



#### CPX - Plastic Sleeves - For Portable Machines

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L40197B	CPX-10 R-3/8	3/8"x24 UNF	1/32"-3/8"	1.62	2.13	2.52
L40198B	CPX-10 R-1/2	1/2"x20 UNF	1/32"-3/8"	1.62	2.13	2.52
L40199B	CPX-13 R-3/8	3/8"x24 UNF	1/16"-1/2"	1.69	2.56	2.96
L40200B	CPX-13 R-1/2	1/2"x20 UNF	1/16"-1/2"	1.69	2.56	2.96

**CARBIDE JAWS**



### Stainless Steel for Food, Dental & Medical

#### SP-INOX - Stainless Steel for Portable Machines

EDP	Part Number	Mount K	Capacity	Ø	L1	L2
L40000B	JKP-30 R-3/8 SS	3/8" x 24 UNF	0-1/8"	0.97	1.73	1.87
L40001B	JKP-65 R-3/8 SS	3/8" x 24 UNF	0-1/4"	1.3	2.44	2.76



# DRILL CHUCKS



**LLAMBRICHUSA**

## Keyed - Industrial Machining Centers

CBB Ball Bearing & CY Plain Bearing Series

**Ball Bearings for the Toughest Conditions • Up to 1" Capacity**

### CBB Ball Bearing

EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40070B	CBB-08 J2	2JT	1/64"-5/16"	1.25	1.55	2.00	K30
L40071B	CBB-10 J2	2JT	1/32"-3/8"	1.85	2.17	2.76	K32
L40626B	CBB-13 J6	6JT	1/32"-1/2"	2.44	2.96	3.70	K3
L40072B	CBB-13 J3	3JT	1/32"-1/2"	2.44	2.96	3.70	K3
L40073B	CBB-16 J3	3JT	1/32"-5/8"	2.00	3.19	4.02	K4
L40074B	CBB-19 J4	4JT	1/32"-3/4"	2.96	3.90	4.93	K4
L40075B	CBB-25 J5	5JT	3/16"-1"	3.66	4.41	5.79	K5

**All Wear Parts Hardened for Long Life**



### CY Plain Bearing Heavy Duty Taper Mount

EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40113B	CY-16 J-3	3JT	1/64"-5/8"	2.17	3.07	3.74	K3
L40114B	CY-16 J-3 KD	3JT	1/64"-5/8"	2.17	3.23	4.02	K3
L40115B	CY-16 J-3 PD	3JT	1/64"-5/8"	2.17	3.23	4.02	K3
L40116B	CYX-13 J-2	2JT	1/64"-1/2"	2.05	2.70	3.31	K3
L40117B	CYX-13 J-6	6JT	1/64"-1/2"	2.05	2.70	3.31	K3
L40118B	CYX-13 J-33	33JT	1/64"-1/2"	2.05	2.70	3.31	K3
L40119B	CYX-13 J-33 C	33JT	1/64"-1/2"	2.05	2.91	3.54	K3
L40120B	CY-19 J-3	3JT	1/64"-3/4"	2.95	3.90	4.72	K4
L40121B	CY-19 J-3 KD	3JT	1/64"-3/4"	2.95	4.17	4.92	K4
L40122B	CY-19 J-3 PD	3JT	1/64"-3/4"	2.95	4.17	4.92	K4

### CY Plain Bearing Heavy Duty Threaded Mount

EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40123B	CY-16 R-5/8	5/8-16	1/64"-5/8"	2.07	3.07	3.66	K3
L40124B	CY-06 R-3/8 SP	3/8-24	1/64"-1/4"	1.50	1.95	2.44	CK4
L40125B	CY-10 R-1/2 SP	1/2-20	1/64"-3/8"	1.77	2.17	2.68	K34
L40126B	CY-16 R-1/2	1/2-20	1/64"-5/8"	2.07	3.07	3.66	K3
L40127B	CY-19 R-3/4	3/4-16	1/64"-3/4"	2.95	3.90	4.72	K4
L40128B	CY-19 R-5/8	5/8-16	1/64"-3/4"	2.95	3.90	4.72	K4

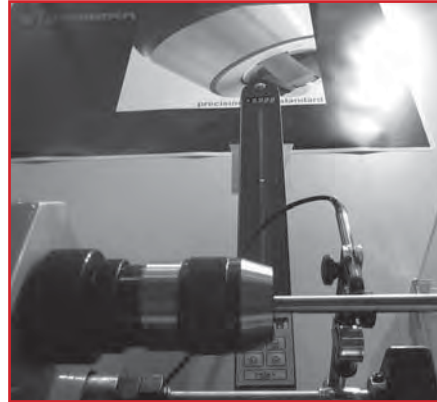
### CY Plain Bearing Medium Duty Taper Mount

EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40129B	CY-04 J-0	0JT	1/64"-5/32"	0.87	1.10	1.38	K0
L40130B	CY-06 J-1	1JT	1/64"-1/4"	1.26	1.57	1.97	CK4
L40131B	CY-10 J-2 SP	2JT	1/64"-3/8"	1.77	2.17	2.68	K34
L40132B	CY-10 J-1	1JT	1/64"-3/8"	1.54	2.01	2.48	K34
L40133B	CY-10 J-2	2JT	1/64"-3/8"	1.54	2.01	2.48	K34
L40134B	CY-13 J-33	33JT	1/64"-1/2"	1.77	2.48	3.03	K2
L40135B	CY-13 DIA-5/8	5/8"	1/64"-1/2"	1.77	2.48	3.03	K2
L40136B	CY-13 J-33 KD	33JT	1/64"-1/2"	1.77	2.72	3.27	K2

### CY Plain Bearing Medium Duty Threaded Mount

EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40137B	CY-04 R-5/16	5/16-24	1/64"-5/32"	0.87	1.10	1.38	K0
L40138B	CY-06 R-3/8	3/8-24	1/64"-1/4"	1.26	1.57	1.93	CK4
L40139B	CY-10 R-3/8 SP	3/8-24	1/64"-3/8"	1.77	2.17	2.68	K34
L40140B	CY-10 R-3/8	3/8-24	1/64"-3/8"	1.54	2.01	2.48	K34
L40141B	CY-10 R-3/8 sm	3/8-24	1/64"-3/8"	1.54	2.01	2.48	K34
L40142B	CY-10 R-1/2	1/2-20	1/64"-3/8"	1.54	2.01	2.48	K34
L40143B	CY-13 R-1/2	1/2-20	1/64"-1/2"	1.77	2.48	3.03	K2
L40144B	CY-13 R-3/8	3/8-24	1/64"-1/2"	1.77	2.48	3.03	K2
L40145B	CY-13 R 5/8	5/8-16	1/64"-1/2"	1.77	2.48	3.03	K2

## Keyed - Portable Machines CL, C-Inox Series & Chuck Keys



**All Wear Parts Hardened for Long Life**

### CL - Portable Machine Light Duty

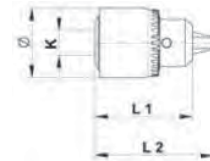
EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40220B	CL-06 R-3/8	3/8"x24 UNF	1/64"-1/4"	1.18	1.57	1.93	KG
L40215B	CL-10 R-3/8	3/8"x24 UNF	1/32"-3/8"	1.34	1.97	2.32	KG
L40216B	CL-10 R-1/2	1/2"x20 UNF	1/32"-3/8"	1.34	1.97	2.32	KG
L40217B	CL-13 R-3/8	3/8"x24 UNF	1/16"-1/2"	1.65	2.36	2.87	K34
L40218B	CL-13 R-1/2	1/2"x20 UNF	1/16"-1/2"	1.65	2.36	2.87	K34



### Stainless Steel for Food, Dental & Medical

### C-INOX - Portable Machine Stainless Steel

EDP	Part Number	Mount K	Capacity	Ø	L1	L2	Key
L40205B	CSS-04 R-3/8	3/8"x24 UNF	1/64"-5/32"	0.87	1.61	1.88	K0 SS
L40206B	CSS-06 R-3/8	3/8"x24 UNF	1/64"-1/4"	1.18	1.61	1.89	CK3 SS
L40207B	CSS-10 R-3/8	3/8"x24 UNF	1/32"-3/8"	1.46	2.01	2.48	CK4 SS



### Chuck Key

CBB			CY			CL			C-Inox		
EDP	Part #	Drill Chuck Model #	EDP	Part #	Drill Chuck Model #	EDP	Part #	Drill Chuck Model #	EDP	Part #	Drill Chuck Model #
L40088A	K30	CBB-08 J2	L40535A	K0	CY-04	L40577A	KG	CL-06 & CL-10	L40208A	K0 SS	CSS-04
L40089A	K32	CBB-10 J2	L40578A	CK4	CY-06	L40090A	K34	CL13	L40209A	CK3 SS	CSS-06
L40090A	K3	CBB-13 J3 & J6	L40537A	K34	CY-10				L40210A	CK4 SS	CSS-10
L40091A	K4	CBB-16 J3	L40538A	K2	CY-13						
L40091A	K4	CBB-19 J4	L40900A	K3	CYX-13						
L40093A	K5	CBB-25 J5	L40900A	K3	CY-16						
			L40091A	K4	CY-19						



### Chuck Keys

All Llambrich keyed drill chucks are supplied with a chuck key for tightening.



# DRILL CHUCKS



**LLAMBRICH USA**

## Accessories

Arbors, Sleeves & Drifts

### Drill Sleeves DIN-2185

EDP	Part #	Morse Taper	
		Outside	Inside
LCR021B	CR-2 x 1	2	1
LCR031B	CR-3 x 1	3	1
LCR032B	CR-3 x 2	3	2
LCR041B	CR-4 x 1	4	1
LCR042B	CR-4 x 2	4	2
LCR043B	CR-4 x 3	4	3
LCR052B	CR-5 x 2	5	2
LCR053B	CR-5 x 3	5	3
LCR054B	CR-5 x 4	5	4
L40415B	CR-6 x 3	6	3
L40416B	CR-6 x 4	6	4
L40417B	CR-6 x 5	6	5

### Morse Taper to Threaded Shank

EDP	Part #	Threaded	Jacobs
L40585B	E-MT2-3/8	3/8"x24	0
L40586B	E-MT2-1/2	1/2"x20	1
L40587B	E-MT2-5/8	5/8"x16	2

### CAT Shank to Jacobs Taper

EDP	Part #	CAT	Jacobs
L40613B	CA-40/J2	40	2
L40614B	CA-40/J33	40	33
L40615B	CA-40/J6	40	6
L40616B	CA-50/J33	50	33
L40617B	CA-50/J6	50	6

### R-8 Shank to Jacobs Taper

EDP	Part #	Taper Jacobs
L40579B	E-R8-J1	1
L40580B	E-R8-J2	2
L40581B	E-R8-J3	3
L40582B	E-R8-J33	33
L40583B	E-R8-J4	4
L40584B	E-R8-J6	6

### Ejecting Drifts

EDP	Part #	For Drill Sleeves	
		Morse	
L40418B	CE 1-2	1, 2	
L40419B	CE 2-3	2, 3	
L40420B	CE 3-4	3, 4	
L40421B	CE 4-5	4, 5	
L40422B	CE 5-6	5, 6	



### Morse Taper to Jacobs Taper

EDP	Part #	Morse	Jacobs
LEJ010B	E-J0/1	1	0
LEJ011B	E-J1/1	1	1
LEJ012B	E-J2/1	1	2
LEJ013B	E-J3/1	1	3
LEJ016B	E-J6/1	1	6
LEJ133B	E-J33/1	1	33
LEJ021B	E-J1/2	2	1
LEJ022B	E-J2/2	2	2
LEJ023B	E-J3/2	2	3
LEJ026B	E-J6/2	2	6
LEJ233B	E-J33/2	2	33
LEJ031B	E-J1/3	3	1
LEJ032B	E-J2/3	3	2
LEJ033B	E-J3/3	3	3
LEJ036B	E-J6/3	3	6
LEJ333B	E-J33/3	3	33
LEJ034B	E-J4/3	3	4
LEJ035B	E-J5/3	3	5
LEJ042B	E-J2/4	4	2
LEJ043B	E-J3/4	4	3
LEJ046B	E-J6/4	4	6
LEJ433B	E-J33/4	4	33
LEJ044B	E-J4/4	4	4
LEJ045B	E-J5/4	4	5
LEJ055B	E-J5/5	5	5

### Straight Shank to Jacobs Taper

EDP	Part #	Straight	Jacobs
L40588B	E-1/2-J0	1/2	0
L40589B	E-1/2-J1	1/2	1
L40590B	E-1/2-J2	1/2	2
L40591B	R-1/2-J3	1/2	3
L40592B	R-1/2-J33	1/2	33
L40593B	R-1/2-J4	1/2	4
L40594B	E-1/2-J6	1/2	6
L40595B	E-1/2-J4	5/8	1
L40596B	E-1/2-J6	5/8	2
L40597B	E-5/8-J1	5/8	3
L40598B	E-5/8-J2	5/8	33
L40599B	E-5/8-J3	5/8	4
L40600B	E-5/8-J33	5/8	6
L40601B	E-5/8-J4	3/4	2
L40602B	E-5/8-J6	3/4	3
L40603B	E-3/4-J3	3/4	33
L40604B	E-3/4-J33	3/4	4
L40605B	E-3/4-J4	3/4	6
L40606B	E-3/4-J6	1	2
L40607B	E-1-J2	1	3
L40608B	E-1-J3	1	33
L40609B	E-1-J33	1	4
L40610B	E-1-J6	1	6
L40611B	E-1-1/2-J3	1-1/2	3
L40612B	E-1-1/2-J4	1-1/2	4



Standard & Extended Point

**Llambrich® Live Centers are of high precision for use in conventional or CNC machines.**

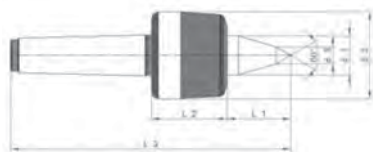


**Model N - Standard Point**

EDP	Part Number	Morse Taper	Load Factor (lbs.)	d1	d2	L1	L2	L3	T.I.R.
<b>LGN200B</b>	R-200-N	2	400	0.71	1.65	0.95	1.38	5.04	0.00012"
<b>LGN300B</b>	R-300-N	3	890	0.87	1.93	1.14	1.85	6.42	0.00012"
<b>LGN400B</b>	R-400-N	4	1,765	1.18	2.48	1.38	2.05	7.72	0.00012"
<b>LGN500B</b>	R-500-N	5	3,860	1.38	3.35	1.89	2.52	9.85	0.0016"

**MAINTENANCE FREE**

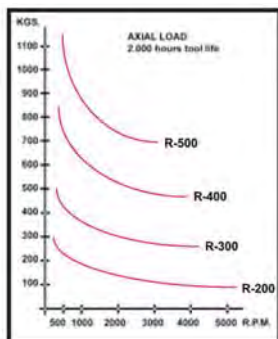
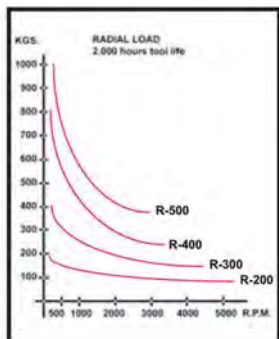
**Fully hardened & precision ground.**



**Model C - Extended Point**

EDP	Part Number	Morse Taper	Load Factor (lbs.)	d1	d2	L1	L2	L3	T.I.R.
<b>LGC300B</b>	R-300-C	3	890	0.87	1.93	1.5	1.85	6.86	0.00012"
<b>LGC400B</b>	R-400-C	4	1,765	1.18	2.48	1.81	2.05	8.16	0.00012"
<b>LGC500B</b>	R-500-C	5	3,860	1.38	3.35	2.52	2.52	10.48	0.0016"

Note: Llambrich® live centers may reach temperatures of up to 176 degrees F due to the fine adjustment of the bearings with the spindle.



**Capable of bearing up to 3,860 lbs of workload & speeds up to 5,000 rpm.**

Model	T.I.R.
<b>R-200</b>	0.00012"
<b>R-300</b>	0.00012"
<b>R-400</b>	0.00012"
<b>R-500</b>	0.0016"

## SERIES 6000 ELECTRIC MACHINES

REACH 44" HEIGHT 26"



### Articulating Tapping Arms

- #0 - 1 3/8" (M1,6 - 1") Capacity
- 75 RPM to 900 RPM Modular System
- Brushless TSV Type
- Single-Phase 220 V.
- Variable Speed Control
- Right & Left-Hand Rotation
- Automatic Tool Lubrication

Model 6000 *Standard Unit*  
EDP R60000A

Model 6000-C63 *For Vertical & Horizontal Tapping*  
EDP R64000A



## SERIES 9001 ELECTRIC MACHINES

REACH 48" HEIGHT 32"



### Programmable Articulating Tapping Arm

- #0 - 1 3/8" (M1.6-M33) Capacity
- 40 RPM to 900 RPM Modular System
- Brushless TSV Type
- Single-Phase 220 V.
- Programmable Depth Control
- Variable Speed Control
- Right & Left Hand Rotation
- Thread Type & Pitch Selection
- Automatic Tool Lubrication

Model 9001-NC *Standard Unit*  
EDP R91000A

Model 9001-NC-C33 *For Vertical & Horizontal Tapping*  
EDP R91001A



### Interchangeable Gearbox Module for Electronic Models 6000 & 9001



From a single motor, 6 different speed (RPM) modules are available to provide the right torque for the right tap.

EDP	Description	Capacity	Adapter Size
R90510A	40rpm Module	1/2" - 1 3/8" (M12-M33)*	#3
R90521A	75rpm Module	1/2" - 1 3/8" (M12-M33)	#3
R90520A	75rpm Module	5/16" - 7/8" (M8-M22)	#2
R90530A	140rpm Module	5/16" - 3/4" (M8-M22)	#2
R90540A	320rpm Module	0" - 9/16" (M1.6-M14)	#1
R90550A	500rpm Module	0" - 1/2" (M1.6-M12)	#1
R90560A	900rpm Module	0" - 5/16" (M1.6-M8)	#1

\* For Model 9001 Only



# SERIES 200

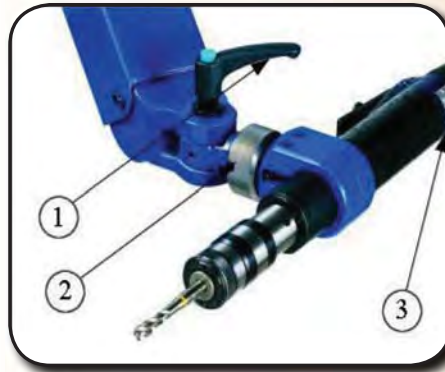
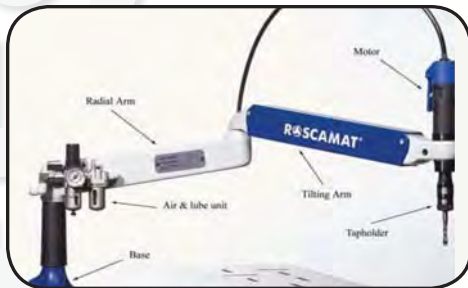
The Series 200 standard machine consists of a radial arm to a tilting arm that is balanced by a pneumatic damper. The tilting arm fixes to the head member and the pneumatic motor both of them moving perpendicularly to the work piece. As a result of these combinations results in a toroidal movement in the work area.

The TSVII Pneumatic Motor is available in 2 speeds 350 or 750 RPM. The swivel motor mount option offers the ability to tap in a Vertical and Horizontal position. Add C13 to the standard part number to get this option.

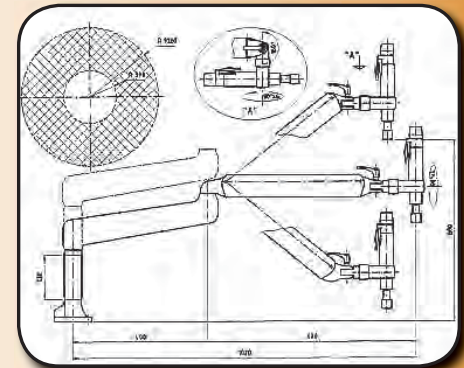
The tap holder is mounted directly to the pneumatic motor with a quick change system that utilizes common SCM tap adapter system. This system offers a Rigid Adapters for through holes and easy to machine materials and a Torque Control Adapter that offers added safety for blind holes and difficult to machine materials. The SCM tap adapter system also offers a 5 second quick change method that reduces tool change time and increases the productivity in all threading operations. SCM tap adapters can be found on pages 26 & 27.



**REACH 37" HEIGHT 26"**



Horizontal Tapping



MODEL 200-350 <i>EDP R20001A</i>	MODEL 200-750 <i>EDP R20002A</i>	MODEL 200 C13-350 <i>EDP R20003A</i>	MODEL 200 C13-750 <i>EDP R20004A</i>
<ul style="list-style-type: none"> <li>● 350 RPM</li> <li>● # 0 - <sup>9</sup>/<sub>16</sub> "</li> <li>● M2 - M14</li> <li>● Size 1</li> </ul>	<ul style="list-style-type: none"> <li>● 750 RPM</li> <li>● # 0 - <sup>3</sup>/<sub>8</sub> "</li> <li>● M2 - M10</li> <li>● Size 1</li> </ul>	<ul style="list-style-type: none"> <li>● 350 RPM</li> <li>● # 0 - <sup>9</sup>/<sub>16</sub> "</li> <li>● M2 - M14</li> <li>● Size 1</li> </ul>	<ul style="list-style-type: none"> <li>● 750 RPM</li> <li>● # 0 - <sup>3</sup>/<sub>8</sub> "</li> <li>● M2 - M10</li> <li>● Size 1</li> </ul>

**VERTICAL TAPPING**

**VERTICAL & HORIZONTAL TAPPING**

# TAPPING ARMS

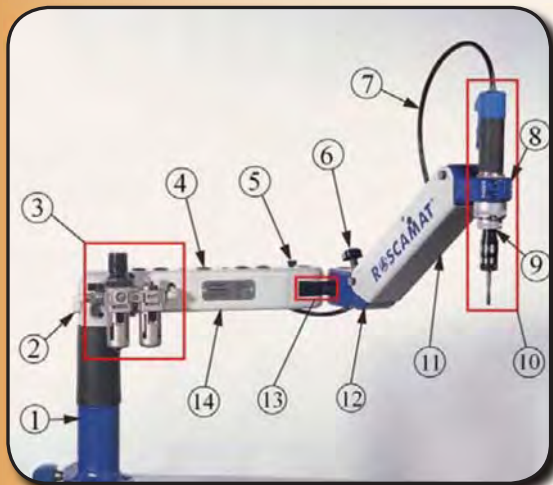


# ROSCAMAT®

## Pneumatic Machines

### Series 400 & RPM Modules

**REACH 43" HEIGHT 27"**



# SERIES 400

- |                          |                     |
|--------------------------|---------------------|
| 1. Machine base plate    | 8. Headmember       |
| 2. Intake Connection     | 9. Module           |
| 3. Air Group FRL         | 10. Motor pneumatic |
| 4. Tapholder nest        | 11. Tilting arm     |
| 5. Brake Handle          | 12. Cross Unit      |
| 6. Damper reg. handwheel | 13. Union           |
| 7. Intake pipe           | 14. Radial arm      |

**#0 - 7/8" (M2-M22) Capacity • 90 RPM to 2100 RPM Modular System**  
**• TS-VIII Motor Size 1 & 2 Tap Adapters**

**MODEL 400**  
**EDP R40000A**

**MODEL 400-E**  
**EDP R41000A**

**MODEL 400-C43**  
**EDP R44000A**

**MODEL 400-C43-E**  
**EDP R45000A**

**Standard Unit**

**Comes with Tool Lubricator**

**For Vertical & Horizontal Tapping**

**For Vertical & Horizontal Tapping with Tool Lubricator**



**Interchangeable Gearbox Module for Pneumatic Models 400, 500 & 500RH**

### DEPTH STOP CONTROL

Machine Series 400 & 500 are available with an automatic depth stop control feature. This attachment provides automatic reversing when the tap reaches the pre-set depth. The attachment is assembled with the Depth Stop Control at the factory. The part number below includes the complete tapping arm with the Depth Stop Control attachment included.

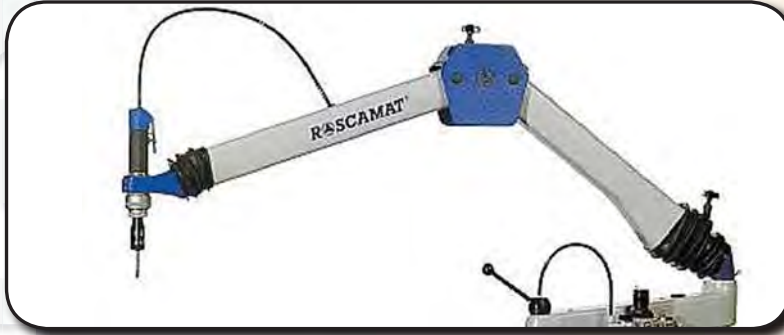
EDP	Model
<b>R40016A</b>	Model 400-P
<b>R41016A</b>	Model 400-P E
<b>R44016A</b>	Model 400-P-C43
<b>R45016A</b>	Model 400-P-C43-E
<b>R50016A</b>	Model 500-P
<b>R51016A</b>	Model 500-P RH
<b>R52016A</b>	Model 500-P E
<b>R53016A</b>	Model 500-P RH-E
<b>R54016A</b>	Model 500-P C26-N
<b>R55016A</b>	Model 500-P C26-N-E



Tolerance: +/- .020" (.5mm)

EDP	Description	Capacity	Adapter Size
<b>R40510A</b>	90rpm Module	5/16" - 7/8" (M8-M22)	#2
<b>R40520A</b>	170rpm Module	5/16" - 5/8" (M8-M22)	#2
<b>R40530A</b>	300rpm Module	0" - 9/16" (M1.6-M14)	#1
<b>R40540A</b>	550rpm Module	0" - 1/2" (M1.6-M12)	#1
<b>R40550A</b>	750rpm Module	0" - 3/8" (M1.6-M10)	#1
<b>R40560A</b>	1050rpm Module	0" - 5/16" (M1.6-M8)	#1
<b>R40570A</b>	2100rpm Module, Drill up to 5/16", B16 Mount		

**SERIES 500**



REACH 83" HEIGHT 44"

#0 - 7/8" (M2-M22) Capacity • 90 RPM to 2100 RPM Modular System  
• TS-VIII Motor Size 1 & 2 Tap Adapters

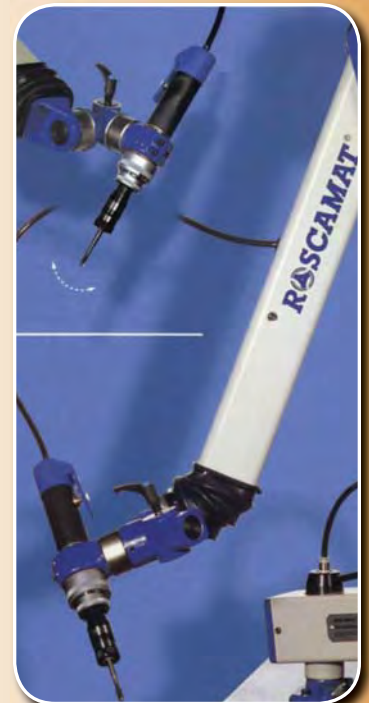
<p>MODEL 500 <i>EDP R50000A</i></p>	<p>MODEL 500-E <i>EDP R52000A</i></p>	<p>MODEL 500-C26N <i>EDP R54000A</i></p>	<p>MODEL 500-C26N-E <i>EDP R55000A</i></p>
<p><i>Standard Unit</i></p>	<p><i>Comes with Tool Lubricator</i></p>	<p><i>For Vertical &amp; Horizontal Tapping</i></p>	<p><i>For Vertical &amp; Horizontal Tapping with Tool Lubricator</i></p>

**SERIES 500RH**

#0 - 7/8" (M2-M22) Capacity • 90 RPM to 2100 RPM Modular System • TS-VIII Motor Size 1 & 2 Tap Adapters

**Multiposition Head Tap in any position**

<p>MODEL 500-RH <i>EDP R51000A</i></p>	<p>MODEL 500-RH-E <i>EDP R53000A</i></p>
<p><i>Standard Unit</i></p>	<p><i>Comes with Tool Lubricator</i></p>



REACH 86" HEIGHT 44"



# TAPPING ARMS



# ROSCAMAT®

## Accessories

Tables, Clamps, Columns & Lifters

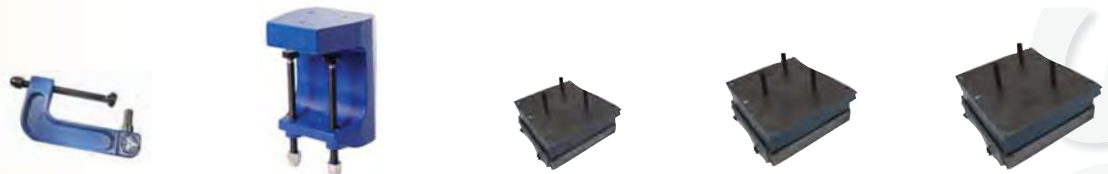
# TABLES



METRIC	500 x 500 x 900 mm	700 x 700 x 850 mm	850 x 850 x 850 mm	1100 x 850 x 850 mm
INCH	19 11/16" x 19 11/16" x 35 7/16"	27 9/16" x 27 9/16" x 33 7/16"	33 7/16" x 33 7/16" x 33 7/16"	43 5/16" x 33 7/16" x 33 7/16"
R 200	•	•	•	•
R 400	•		•	•
R 500/500RH			•	•
R 6000			•	•
R 9001			•	•
<b>EDP</b>	<b>RA0003A</b>	<b>RA0004A</b>	<b>RA0005A</b>	<b>RA0006A</b>

All tables come standard with wheels and brakes

# CLAMPS



	Small clamp	Big clamp	Magnetic Support		
			5 7/8" x 5 7/8"	7 7/8"	9 13/16"
R 200	•	•	•		
R 400	•	•		•	
R 500/500RH		•			•
R 6000	•	•			•
R 9001		•			•
<b>EDP</b>	<b>RA0001A</b>	<b>RA0002A</b>	<b>RA0014A</b>	<b>RA0015A</b>	<b>RA0016A</b>

# COLUMNS



350 x 350 x 750 mm 13 3/4" x 13 3/4" x 29 1/2"	
R 200	•
R 400	•
R 500/500RH	•
R 6000	•
R 9001	•
<b>EDP RA0010A</b>	

# LIFTERS



	Pneumatic	Mechanical
	550 mm	500 mm
stroke	21 5/8"	19 11/16"
R 200	•	•
R 400	•	•
R 500/500RH	•	•
R 6000	•	•
R 9001	•	
<b>EDP RA0012A</b>	<b>EDP RA0013A</b>	

### Die Holder STANDARD LENGTH

EDP	SIZE
RA0017A	SIZE 1 - #10 - 1/2"
RA0018A	SIZE 2 - 5/8 - 13/16"



### Tap Adapter Extension

OVERALL LENGTH 3.150" (80 MM)

EDP	SIZE
RA0020A	SIZE 1 - #10 - 9/16"



### Tap Reduction Adapter REDUCTION CUP

EDP	SIZE
RA0022A	1 - 0
RA0021A	2 - 1
RA0024A	3 - 1
RA0023A	3 - 2



### Keyed Drill Chuck CY-10 B-16 MOUNT

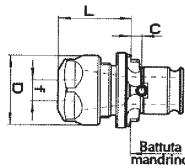
EDP	CAPACITY
L40112A	1/16" - 3/8"



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### ER Collet Chuck ADAPTERS

EDP	SIZE
11750A	1 - ER16
11751A	2 - ER25



### Keyless Drill Chuck CKX-13 B-16 MOUNT

EDP	CAPACITY
L40219A	1/16" - 1/2"



LLAMBRICHUSA

## TAP ADAPTERS



COMPLETE OFFERING OF RIGID & TORQUE CONTROL TAP ADAPTERS SEE PAGES 26 & 27

Tap Size			Size 1				Size 2			
			Rigid		Torque Control		Rigid		Torque Control	
ANSI	ISO	STI	Part #	EDP	Part #	EDP	Part #	EDP	Part #	EDP
#0-6	M1.6-M3.5	2,3,4	19/11 4036	11600B	19/1 4036	11800B				
#8	M4	5	19/11 4041	11602B	19/1 4041	11801B				
#10	M5	6	19/11 4048	11604B	19/1 4048	11802B				
#12		8	19/11 4054	11605B	19/1 4054	11803B				
1/4	M6	10	19/11 4063	11606B	19/1 4063	11804B				
5/16	M8	12, 1/4	19/11 4079	11607B	19/1 4079	11805B	31/12 4079	11614B	31/2 4079	11811B
3/8	M10	5/16	19/11 4095	11608B	19/1 4095	11806B	31/12 4095	11615B	31/2 4095	11812B
7/16	M11		19/11 4111	11611B	19/1 4111	11807B	31/12 4111	11616B	31/2 4111	11813B
1/2	M12	3/8	19/11 4127	11612B	19/1 4127	11808B	31/12 4127	11617B	31/2 4127	11814B
9/16	M14	7/16	19/11 4142	11613B	19/1 4142	11809B	31/12 4142	11618B	31/2 4142	11815B
5/8	M16	1/2					31/12 4158	11619B	31/2 4158	11816B
11/16	M18	9/16					31/12 4174	11620B	31/2 4174	11817B
3/4							31/12 4190	11621B	31/2 4190	11818B
13/16	M20						31/12 4206	11622B	31/2 4206	11819B
7/8	M22	3/4					31/12 4222	11623B	31/2 4222	11820B
1/8 NPT			19/11 4097	11609B	19/1 4097C	11810B				
1/4 NPT							31/12 4131C	11624B	31/2 4131C	11822B
3/8 NPT							31/12 4166C	11625B	31/2 4166C	11823B
1/2 NPT							31/12 4209C	11626B	31/2 4209C	11824B
1/2 NPT							31/12 4209C	11626B	31/2 4209C	11824B

## Manufacturing Specifications

### MATERIAL

Milling Chucks, Collet Chucks, Endmill Holders, Shellmill Holders, Tapping Toolholders, & HSK style tooling from SCM-America are manufactured from 18 NiCrMo5. This high quality Nickel - Chrome alloy steel is used to provide maximum performance and life of the toolholder. Shrink-Fit tooling is manufactured from special high grade alloy steel which allows the deformation required during the clamping process for the contact needed to assure the proper accuracy for the high speed machining operation.

### HEAT TREAT

All tapered shanks are case hardened to 58-60 Rockwell "C" and have a core hardness of 40-45 Rockwell "C". The case hardness is designed to provide the maximum toolholder life without damaging the machine spindle.

### TAPER END

All tapers manufactured by SCM-America are 100% controlled and manufactured in accordance to the AT3 tolerance specification or better. The taper roundness tolerance is held at .00008" or better. Every taper that SCM manufactures is inspected and evaluated with 3 point contact measurement which exceeds the 2 point contact as required by the AT3 specification.

### TOOLING END

Endmill bores and ER Collet seats are manufactured to the H5 tolerance specification and have a T.I.R. of .0002" or better. Shellmill pilots are manufactured to the H6 tolerance specification and have a T.I.R. of .0002" or better. Weler Milling Chucks are manufactured to the H3 specification. Shrink-Fit tooling is held to a total of .0001" T.I.R.

### QUALITY CONTROL

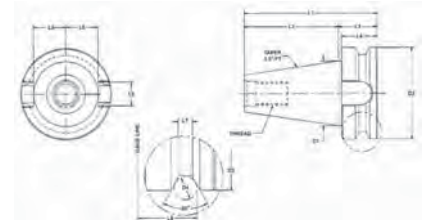
SCM srl has a significant investment in inspection equipment and processes to ensure the quality of every tool that it manufactures. All high performance tools are 100% inspected and evaluated for T.I.R. and balance. A document of certification is provided that states the actual measurements. All products are manufactured on modern, well maintained machinery by trained and skilled operators.



**SCM srl is a Vision 2000 certified company.**

### BT Taper Specifications

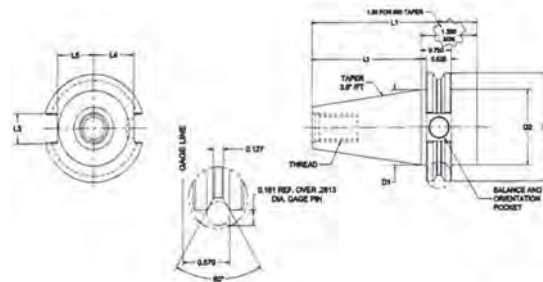
Taper	D1	D2	D3	D4	L1	L2	L3	L4	L5	L6	L7	L8	Thread
BT30	1.25	1.811	2.21	8mm	2.771	1.906	0.865	0.787	0.646	0.637	0.157	0.693	M12-1.75
BT40	1.75	2.48	2.979	10mm	3.637	2.575	1.062	0.984	0.881	0.64	0.197	0.851	M16-2.0
BT50	2.75	3.937	4.686	15mm	5.504	4.008	1.496	1.378	1.39	1.016	0.276	1.208	M24-3.0



### CAT V-Flange Taper Specifications

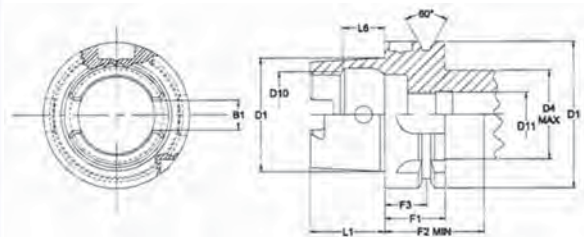
Meets or exceeds the AT3 specification

Taper	D1	D2	D3	L1	L2	L3	L4	L5	Thread
CAT40	1.75	1.75	2.5	4.062	2.687	0.64	0.983	0.888	5/8-11
CAT50	2.75	2.75	3.875	5.375	4.00	1.015	1.478	1.383	1" - 8



### HSK Taper Specifications

Taper	D1	D2	D4	D10	D11	L1	L6	B1	F1	F2	F3
HSK32	32	24.007	26	19	M10X1.0	16	8.92	7.05	20	35	16
HSK40	40	30.007	34	23	M12X1.0	20	11.42	8.05	20	35	16
HSK50	50	38.009	42	29	M16X1.0	25	14.13	10.54	26	42	18
HSK63	63	48.01	53	37	M18X1.0	32	18.13	12.54	26	42	18
HSK80	80	60.012	68	46	M20X1.5	40	22.85	16.04	26	42	18
HSK100	100	75.013	88	58	M24X1.5	50	28.56	20.02	29	45	20





### AXIAL FEED

A thread is an inclined plane that is rolled into a cylinder. The distance between a point on the plane and the point directly above or below it is the pitch of the thread. To produce quality thread the tap must be fed into the work piece precisely on pitch. A tap is the only metalworking tool in which the feed rate and the spindle speed must be perfectly matched. For each revolution the tap makes it must advance the distance of the pitch. Retarding or accelerating the taps entrance and exit will cause the tap to be pushed or pulled, producing a defective thread.

### TENSION/COMPRESSION STROKE

A tap is a precision ground cutting tool. Because not all machine tools can synchronize speed to feed, a tension and compression floating tapping head is utilized. This allows the tap to pull itself in to the work piece on entrance, and follow the pitch exiting the work piece allowing the tap to be pulled from the work piece, thus producing a quality thread.

### TORQUE CONTROL

Torque control is the ability to cause the tap to stop rotating when a predetermined force or pressure is reached. This often happens when tapping blind holes where chip build up blocks the hole. Without torque control, the tap can break, resulting in excessive tooling cost, and a possible defective or an unusable work piece. To prevent this problem when tapping blind holes, choose SCM's tap adapters with the torque control clutch feature on page 27.

### RADIAL FLOAT

Radial float allows for misalignment between the tap and the hole to be tapped. This also allows the tap follow a hole, which has not been drilled straight.

### AXIAL COMPRESSION

The compression stroke cushions the tap as it enters the work piece. This feature also allows holes to be retapped. This is particularly helpful when setting up a job. The compression stroke to maximize depth control on SIZE #1 is adjustable from 45 ft/lbs. to 100 ft/lbs. SIZE #2 is adjustable from 95 ft/lbs. to 360 ft/lbs.

### SYNCROLIZE

The new modern machine tools have 32 bit microprocessors that offer the capability of synchronizing the spindle rotation and spindle feed. This means the compression and tension stroke found in traditional tapping heads is not needed. The newer processors allow for the use of a lower cost holder since the axial float mechanism is not needed. It also offers the advantage of tapping at higher cycle speeds. SCM recommends the Syncrolize Tapping Chuck for synchronized tapping. It offers .039" tension stroke, .008" compression stroke, & .0001" radial float. This combinations results in perfect hole line up, reduced cycle times, quality threads and longer tap life (up to 2 times) with a lower cost tapping head.

### Torque Requirements (all values are in inch/lbs)

Tap Size	Aluminum	Brass	200 BHN Steel	300 BHN Steel	400 BHN Steel	Breaking Torque
#6	2.5	5	8.8	11.3	12.5	10
#8	2.8	5.6	10	12.5	13.8	37.5
#10	5.3	10.6	18.8	23.8	26.3	52.5
1/4	10	20	35	45	50	132.5
5/16	15	30	52.5	67.5	75	225
3/8	23.1	46.3	81.3	103.8	116.3	300
7/16	33.8	67.5	118.1	152.5	168.8	625
1/2	42.5	85	148.8	191.3	212.5	875
9/16	55	110	192.5	247.5	275	1062.5
5/8	74.4	148.8	260	335	372.5	1250
3/4	106.3	212.5	372.5	478.8	531.3	1875
7/8	148.8	297.5	520	670	743.8	2625
1	210.6	421.3	737.5	947.5	1052.5	3375

All numbers in the Torque Requirements table are approximate calculations. They are based upon a 4 flute course pitch tap achieving 75% thread height. To calculate Torque requirement with a different style tap utilize the multipliers in the Torque Factors table.

TORQUE FACTORS	
Factor	Multiplier
75% thread height	1.00
65% thread height	0.75
55% thread height	0.50
Spiral Flute	0.70
Gun Tap	0.60
Fine Pitch	0.55
Dull Tap	2.00

$$RPM = \frac{3.82 \times SFM}{\text{Tap Diameter}} \quad \text{FEED (IPR)} = \frac{1}{\text{Pitch}}$$

$$\text{FEED (IPR)} = \text{Feed (IPR)} \times \text{Speed (RPM)}$$

### Threads are of poor quality

- Is proper tap drill size being used?
- Is the correct feed rate programmed?
- Is tap worn and dull?

### Tap will not start

- Is proper tap drill size being used?
- Is tap worn and dull?
- Is the program depth using the entire compression stroke?

### Unit Torques out prior to reaching full depth

- Is proper tap drill size being used?
- Is tap worn and dull?
- Is hole drilled to proper depth?

### Threads are oversized

- Is the tension stroke sticking?
- Is the correct feed rate programmed?



## Milling

	Endmill Holders	ER Collet Chucks	Weler Chucks	Hydraulic Chucks	Milling Chucks
<b>Accuracy</b> <i>Toolholder precision is based on runout and repeatability at the tool tip.</i>	FAIR	BETTER	BEST	BEST	BETTER
<b>Versatility</b> <i>Versatility is based on capability to clamp multiple tool shank sizes.</i>	POOR	BEST	BETTER	BETTER	BETTER
<b>Reliability</b> <i>Reliability is based on maintenance required to achieve the best precision that the holders is designed to offer.</i>	BEST	GOOD	BETTER	BETTER	BETTER
<b>Speed Capabilities</b> <i>High speed is based on balance and the ability to run at high RPM off the shelf.</i>	POOR	BETTER	BEST	BEST	FAIR
<b>Assembly</b> <i>Ease of use is based on the process to assemble and disassemble the cutting tool.</i>	BEST	BETTER	BETTER	BETTER	FAIR
<b>Clamping Force</b> <i>Maximum clamping torque provided to secure tool as measured for the most severe of radial applications.</i>	BEST	POOR	BETTER	NOT DESIGNED FOR RADIAL APPLICATIONS	GOOD
<b>Milling</b> <i>Based upon the minimum amount of T.I.R. in combination with sufficient clamping forces to safely secure the tool.</i>	POOR	GOOD	BEST	NOT DESIGNED FOR RADIAL APPLICATIONS	BETTER
<b>Thread Milling</b> <i>Based upon the minimum amount of T.I.R. in combination with sufficient clamping forces to safely secure the tool.</i>	POOR	GOOD	BEST	NOT DESIGNED FOR RADIAL APPLICATIONS	POOR
<b>Drilling</b> <i>Based upon the best T.I.R. for maximum tool performance, tool life, and part finish.</i>	POOR	BETTER	BEST	BEST	POOR
<b>Indexable Tooling</b> <i>Based upon the minimum amount of T.I.R. in combination with sufficient clamping forces to safely secure the tool (H6 Shank).</i>	GOOD	POOR	BEST	NOT DESIGNED FOR RADIAL APPLICATIONS	POOR
<b>Reaming</b> <i>Based upon the best T.I.R. for maximum tool performance, tool life, and part finish.</i>	POOR	BEST	BEST	BEST	POOR

### What is a Balanced Tool Holder?

A balanced tool holder has the ability to rotate at high speeds (RPM) with minimal vibration.

### What are Balancing Methods?

**MASS REMOVAL** To achieve a balanced tool the removal of mass or weight can be accomplished by various methods, such as, drilling, milling, or grinding a specific amount of mass or weight from the tool.

**MASS ADDITION** To achieve a balanced tool the addition of mass or weight can be accomplished by various methods, such as, adding set screws or welding a specific amount of mass or weight to the tool.

**MASS DISPLACEMENT** To achieve a balanced tool the displacement of mass or weight can be accomplished by various methods, such as, using counter weights or rings to a specific position on the tool. Normally this method is built into the tool.

### Why is a Balanced Tool Holder Necessary?

Normally, spindle-rotating speeds under 8,000 RPM require minimal balancing. Even a minimal unbalance at speeds of 8,000 RPM and above can produce dangerously high forces on spindle bearings, tool life, and machining quality. The amount of unbalance due to centrifugal force increases as the square of the increase in speed. A speed increase from 5,000 RPM to 25,000 RPM leads to centrifugal force of 25 times. Even though a tool holder has low initial unbalance, the unbalance may become very significant at speeds over 8,000 RPM.

### What are the Effects of Unbalanced Tool Holders?

The detrimental effects of unbalance are high-frequency chatter resulting in reduced tool life, poor surface finish, and the inability to hold close tolerances. Effects of unbalance on the machining center are even more detrimental. The centrifugal forces cause high internal stress, thus resulting in premature spindle bearing failure.

### What is an Unbalanced Tool Holder?

Defined as "the condition that exists when the mass axis of a rotating body tool holder does not coincide with the axis of rotation, and is neither parallel or intersecting it."

ISO Standards: G16, G6.3, G2.5

**For Optimal Performance Always Use The Shortest Tool Possible**

### Torque Tightening for Endmill Holder Set Screws

I.D.	Set Screw Size	Tightening Torque	Hex Wrench Size
1/8"	6-32 x 1/4	0.6 ft/lbs	1/16
3/16"	8-32 x 1/4	0.8 ft/lbs	5/64
1/4"	1/4-28 x 1/4	6.5 ft/lbs	1/8
5/16"	5/16 - 24 x 1/4	14 ft/lbs	5/32
3/8"	3/8 - 24 x 5/16	16 ft/lbs	3/16
1/2"	7/16 - 20 x 3/8	24 ft/lbs	7/32
5/8"	9/16 - 18 x 1/2	36 ft/lbs	9/32
3/4"	5/8 - 18 x 1/2	36 ft/lbs	5/16
7/8"	5/8 - 18 x 1/2	76 ft/lbs	5/16
1"	3/4 - 16 x 11/16	150 ft/lbs	3/8
1-1/4"	3/4 - 16 x 11/16	150 ft/lbs	3/8
1-1/2"	3/4 - 16 x 11/16	150 ft/lbs	3/8
2"	1 - 14 x 7/8	270 ft/lbs	9/16

### ER Collet Specifications

ER Series	Range		Collapse Range		Nut Torque	
	mm	inch	mm	inch	mm	inch
11	0.5 - 7.0	.019 - .276	0.5mm	0.020"	29.83	22
16	0.5 - 10.0	.019 - .394	1mm	0.039"	70.51	52
20	1.0 - 13.0	.039 - .512	1mm	0.039"	100.34	74
25	1.0 - 16.0	.039 - .630	1mm	0.039"	128.82	95
32	2.0 - 20.0	.079 - .787	1mm	0.039"	169.5	125
40	3.0 - 26.0	.079 - 1.02	1mm	0.039"	219.67	162

### H6 Shank Tolerance Chart

Diameter mm	Tolerance mm	Diameter Inch	Tolerance Inch
1 - 3	+0.000 - .006	.039 - .118	+0.000 - .00024
+3 - 6	+0.000 - .008	.119 - .236	+0.000 - .00031
+6 - 10	+0.000 - .009	.237 - .394	+0.000 - .00035
+10 - 18	+0.000 - .011	.395 - .709	+0.000 - .00043
+18 - 20	+0.000 - .013	.710 - .787	+0.000 - .00051



# RETENTION KNOBS

For CAT40, CAT50, BT30, BT40 & BT50

## CAT40 Retention Knobs 5/8 - 11

EDP	Description	DWG.	T	A	L	HOLE?	Socket
X7032A	40E-A / A-45-.440(C.281)	A - A	.625-11	45	1.5	Y	RKW40
X7033A	40E-A / A-45-.440	A - A	.625-11	45	1.5	N	RKW40
X7034A	BOSTON DIGITAL	SPEC	.625-11	15	1.5	N	N/A
X7035A	40E-A / PT-45-1.000	A - PT	.625-11	45	2.265	N	RKW40M
X7036A	40E-A / PT-45-1.139	A - PT	.625-11	45	2.25	N	RKW40M
X7037A	40E-A / PT-45-1.139(C.157)	A - PT	.625-11	45	2.25	Y	RKW40
X7038A	40E-BT (A) / PT-45-.988	BT - PT	.625-11	45	2.25	N	RKW40
X7039A	40E-BT (A) / PT-60-.988	BT - PT	.625-11	60	2.25	N	RKW40
X7040A	40E-A / PT-60-.988	A - PT	.625-11	60	2.125	N	RKW40
X7041A	40E-BT (A) / PT-90-.988	BT - PT	.625-11	90	2.25	N	RKW40
X7042A	40E-A / PT-90-.988	A - PT	.625-11	90	2.125	N	RKW40
X7043A	40E-A / PT-45-.988C.156	A - PT	.625-11	45	2.125	Y	RKW40
X7044A	40E-A / PT-45-.988	A - PT	.625-11	45	2.125	N	RKW40
X7045A	40E-BT / SP-90-.777	M - 1	.625-11	90	2.037	N	RKW40
X7046A	40E-BT (A) / A-45-.440(C.281)	BT - A	.625-11	45	1.624	Y	RKW40
X7047A	40E-BT (A) / A-45-.440	BT - A	.625-11	45	1.624	N	RKW40
X7048A	40E-BT (A) / PT-45-.988(C.200)	BT - PT	.625-11	45	2.25	Y	RKW40
X7049A	40E-A (A) / PT-45-.7066(C.079)	A - PT	.625-11	45	1.889	Y	RKW40
X7050A	40E-A / I(A)-15-.792	I - I (A)	.625-11	15	1.89	N	RKW40
X7051A	40E-A (A)-O / I(A)-15-.792(C.281)	I - I (A)	.625-11	15	1.89	Y	RKW40
X7052A	40E-BT / PT-60-.988(C.128)	BT - PT	.625-11	60	2.25	Y	RKW40
X7053A	40E-A / .124 / PT-45-.988	A - PT	.625-11	45	2.125	N	RKW40
X7054A	40E-A / .124 / PT-60-.988	A - PT	.625-11	60	2.125	N	RKW40
X7055A	40E-A / .124 / PT-90-.988	A - PT	.625-11	90	2.125	N	RKW40
X7056A	40E-A / .124 / PT-45-.988(C.187)	A - PT	.625-11	45	2.124	Y	RKW40
X7057A	40E-A-OP / .124 / PT-45-.988(C.187)-OID	A - PT	.625-11	45	2.124	Y	RKW40
X7058A	40E-BT / PT-90-.707	BT - PT	.625-11	90	1.97	N	RKW40
X7059A	40E-A-OP / A-45-.440(C.160)	BT - A	.625-11	45	1.624	Y	RKW40
X7060A	40E-BT / PT-60-.481	BT - SP	.625-11	60	1.732	N	RKW40
X7061A	40E-BT (BT) / I(A)-15-.9035(C.281)	I - I (A)	.625-11	15	2.126	Y	RKW40
X7062A	40E-BT(A) / PT-90-.988(C.224)	BT - PT	.625-11	90	2.25	Y	RKW40
X7063A	40E-I (A) / I(B)-45-.433(C.281)	I - I (B)	.625-11	45	1.758	Y	RKW40
X7064A	40E-A / D(A)-15-.7874(C.281)	D - D (A)	.625-11	15	1.88	Y	RKW40
X7065A	40E-A / D(A)-15-.7874	D - D (A)	.625-11	15	1.88	N	RKW40

## CAT50 Retention Knobs for Tool Shank 1" - 8

EDP	Description	DWG.	T	A	L	HOLE?	Socket
X7066A	50E-A / A-45-.700(C.500)	A - A	1.00-8	45	2.3	Y	RKW50
X7067A	50E-A / A-45-.700(C.468)	A - A	1.00-8	45	2.3	Y	RKW50
X7068A	50E-A / A-45-.700	A - A	1.00-8	45	2.3	N	RKW50
X7069A	50E-A / SP-40-1.025	LUCAS	1.00-8	40	2.96	N	N/A
X7070A	50E-A / A-45-.700(C.468)	A - A	1.00-8	45	2.3	Y	RKW50M
X7071A	50E-BT / PT-45-1.384	BT - PT	1.00-8	45	3.35	N	RKW50
X7072A	50E-BT / PT-60-1.384	BT - PT	1.00-8	60	3.35	N	RKW50
X7073A	50E-A / PT-60-1.384	A - PT	1.00-8	60	3.08	N	RKW50
X7074A	50E-BT / PT-90-1.384	BT - PT	1.00-8	90	3.35	N	RKW50
X7075A	50E-A / PT-90-1.384	A - PT	1.00-8	90	3.08	N	RKW50
X7076A	50E-A / PT-45-1.384(C.312)	A - PT	1.00-8	45	3.08	Y	RKW50
X7077A	50E-A / PT-45-1.384	A - PT	1.00-8	45	3.08	N	RKW50
X7078A	50E-BT / M2-90-1.384	M - 2	1.00-8	90	3.35	N	RKW40
X7079A	50E-BT / A-45-.700(C.390)-OF	BT - A	1.00-8	45	2.3	Y	RKW50M
X7080A	50E-A / A-45-.700(C.390)-OID	A - A	1.00-8	45	2.303	Y	RKW50M
X7081A	50E-BT / PT-45-1.384(C.390)	BT - PT	1.00-8	45	3.355	Y	RKW50
X7082A	50E-BT-OP / PT-45-1.384(C.236)	BT - PT	1.00-8	45	3.355	Y	RKW50
X7083A	50E-BT-OP / PT-45-1.384(C.236)-OID	BT - PT	1.00-8	45	3.355	Y	RKW50
X7084A	50E-BT / PT-60-1.384(C.335)	BT - PT	1.00-8	60	3.355	Y	RKW50
X7085A	50E-A / PT-90-.903	A - PT	1.00-8	90	2.519	N	RKW50M
X7086A	50E-A / PT-90-.903(C.250)	A - PT	1.00-8	90	2.519	Y	RKW50M
X7087A	50E-A / PT-90-.903(C.315)	A - PT	1.00-8	90	2.519	Y	RKW50M
X7088A	50E-A-OP / PT-60-1.384(C.236)	A - PT	1.00-8	60	3.353	Y	RKW50
X7089A	50E-BT / PT-90-1.384(C.250)	BT - PT	1.00-8	90	3.35	Y	RKW50
X7090A	50E-A / I(A)-15-.9901	A - ISO	1.00-8	15	2.911	N	RKW50
X7091A	50E-A / SP-.141R-1.260	SPECIAL	1.00-8	.141R	2.861	N	N/A
X7092A	50E-A / SP-.141R-2.260	SPECIAL	1.00-8	.141R	3.861	N	N/A
X7093A	50E-A / D(A)-15-.984(C.468)	D - D (A)	1.00-8	15	2.64	Y	RKW50M
X7094A	50E-A / D(A)-15-.984	D - D (A)	1.00-8	15	2.64	N	RKW50M

## BT30 Retention Knobs for Tool Shank M12 x 1.75

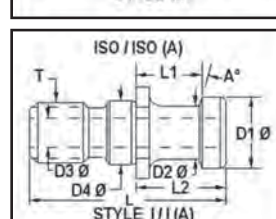
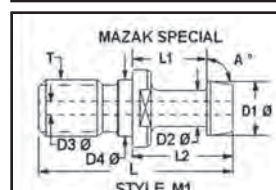
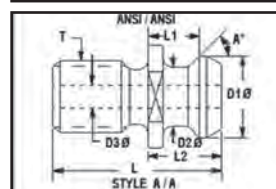
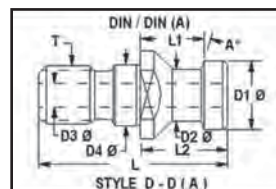
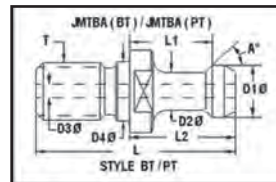
EDP	Description	DWG.	T	A	L	HOLE?	Socket
X7000A	30M-BT / PT-45-.707	BT - PT	M12X1.75	45	1.69	N	RKW30M
X7001A	30M-BT / PT-60-.707	BT - PT	M12X1.75	60	1.69	N	RKW30M
X7002A	30M-BT / PT-45-.707(C.110)	BT - PT	M12X1.75	45	1.69	Y	RKW30M

## BT40 Retention Knobs for Tool Shank M16 x 2.0

EDP	Description	DWG.	T	A	L	HOLE?	Socket
X7003A	40M-BT (1) / A-45-.440(C.281)	A / A	M16X2.0	45	1.624	Y	RKW40
X7004A	40M-A (1)-P / A-45-.440(C.281)	A / A	M16X2.0	45	1.5	Y	RKW40
X7005A	40M-A (1) / A-45-.440	A / A	M16X2.0	45	1.5	N	RKW40
X7006A	40M-BT / A-45-.552	BT - A	M16X2.0	45	1.612	N	RKW40
X7007A	40M-BT / A-45-.552(C.281)	BT - A	M16X2.0	45	1.612	Y	RKW40
X7008A	40M-BT / PT-45-1.251	BT - PT	M16X2.0	45	2.534	N	RKW40M
X7009A	40M-BT / PT-45-1.251(C.141)	BT - PT	M16X2.0	45	2.534	Y	RKW40M
X7010A	40M-BT / PT-45-1.100	BT - PT	M16X2.0	45	2.36	N	RKW40
X7011A	40M-BT / PT-60-1.100	BT - PT	M16X2.0	60	2.36	N	RKW40
X7012A	40M-BT / PT-90-1.100	BT - PT	M16X2.0	90	2.36	N	RKW40
X7013A	40M-BT / PT-45-1.100(C.197)	BT - PT	M16X2.0	45	2.36	Y	RKW40
X7014A	40M-BT / PT-60-1.100(C.197)	BT - PT	M16X2.0	60	2.36	Y	RKW40
X7015A	40M-BT / PT-90-1.100(C.197)	BT - PT	M16X2.0	90	2.36	Y	RKW40
X7016A	40M-BT / I(A)-15-.9035	BT - I (A)	M16X2.0	15	2.126	N	RKW40
X7017A	40M-BT / I(A)-15-.9035(C.281)	BT - I (A)	M16X2.0	15	2.126	Y	RKW40
X7018A	40M-D / D(A)-15-.7874(C.281)	D - D (A)	M16X2.0	15	2.136	Y	RKW40
X7019A	40M-D / D(A)-15-.787	D - D (A)	M16X2.0	15	2.136	N	RKW40

## BT50 Retention Knobs for Tool Shank M24 x 3.0

EDP	Description	DWG.	T	A	L	HOLE?	Socket
X7020A	50M-A / A-45-.700(C.468)	A - A	M24X3.0	45	2.3	Y	RKW50
X7021A	50M-A-P / A-45-.700	A - A	M24X3.0	45	2.3	N	RKW50
X7022A	50M-A-P / A-45-.700(C.468)	A - A	M24X3.0	45	2.3	Y	RKW50
X7023A	50M-BT / PT-45-1.376	BT - PT	M24X3.0	45	3.35	N	RKW50M
X7024A	50M-BT / PT-60-1.376	BT - PT	M24X3.0	60	3.35	N	RKW50M
X7025A	50M-BT / PT-90-1.376	BT - PT	M24X3.0	90	3.35	N	RKW50M
X7026A	50M-A / A-45-.700(C.390)-OF	BT - A	M24X3.0	45	2.58	Y	RKW50M
X7027A	50M-BT / PT-45-1.376(C.236)	BT - PT	M24X3.0	45	3.35	Y	RKW50M
X7028A	50M-BT / PT-60-1.376(C.312)	BT - PT	M24X3.0	60	3.35	Y	RKW50M
X7029A	50M-BT / PT-90-1.376(C.250)	BT - PT	M24X3.0	90	3.35	Y	RKW50M
X7030A	50M-D / D(A)-15-.984(C.468)	D - D (A)	M24X3.0	15	2.92	Y	RKW50M
X7031A	50M-D / D(A)-15-.984	D - D (A)	M24X3.0	15	2.92	N	RKW50M



**CALL US WITH YOUR MACHINE MAKE & MODEL.  
WHETHER YOU NEED COOLANT THRU OR SOLID,  
WE WILL FIND THE RETENTION KNOB FOR YOU!**



## Retention Knob Sockets

EDP	Part Number	Taper	1/2: Drive Socket Fits Retention Knob Type	Thread Size	Shoulder Dia Max.	Wrench Size Max.
X14981A	RKW30M	30	JMTBA	M - 12	0.675	0.511
X14983A	RKW40	40	ANSI, JMTBA, ISO, TYPE A, DIN	5/8-11 UNC	0.944	0.755
X14987A	RKW50	50	ANSI, JMTBA, ISO, TYPE A, DIN	1-8 UNC	1.45	1.255
X14988A	RKW50M	50	JMTBA, ISO, TYPE A & B, DIN	M - 24	1.5	1.185



# TOOL HOLDER ACCESSORIES

## Carts, Towers, Racks & Holding Fixtures

### CNC Tool Scoot™



27-5/16" W x 18-5/16"D x 36 H  
Shipping Weight 65 lbs.  
(Per Tool Tower)

- Holds 48 toolholders for 30, 40 tapers
- Holds 36 toolholders for 50 taper
- 2 storage trays with protective lining inside
- Durable nylon inserts to help prevent tool damage
- New extra tray supports for better stability
- Interlocking side panel construction adds strength
- Heavy duty 5" x 1-1/4" casters load rated at 1000 lbs.
- Keep tools cleaner than open end carts
- Angled tray for easy, quick tool access from either side
- Two position adjustable tray holder
- Solid side panels for maximum strength & stability
- Heavy gauge, all steel infra red/baked epoxy finish

 **30 Taper - EDP H13930A**

 **40 Taper - EDP H13940A**

 **50 Taper - EDP H13950A**

### CNC Tool Towers



18" W x 35-1/4"D x 35 H  
Shipping Weight 79 lbs.  
(Per Tool Cart)

- Individual units are 3' tall
- Optional stacking kit is sold separately
- Nylon inserts protect each tool holder
- Sturdy 16 gauge steel construction
- Optional tool lock tray can be mounted on either side panel
- Tool Tower should be bolted to the floor for additional security

 **30 Taper - EDP H13830A**

 **40 Taper - EDP H13840A**

 **50 Taper - EDP H13850A**

### ER COLLET NEW Trays



Up to 40 Collets  
per Tray

Individual Trays for  
All ER Collet Sizes Available

- Protect your expensive investments with high impact plastic trays
- Sliding see thru plastic cover
- Up to 40 collets per tray - holds a full set plus special & metric sizes
- Angled seat location to secure collet

**ER11 Collet Tray EDP 13915A**

**ER16 Collet Tray EDP 13916A**

**ER20 Collet Tray EDP 13917A**

**ER25 Collet Tray EDP 13918A**

**ER32 Collet Tray EDP 13919A**

**ER40 Collet Tray EDP 13920A**



CNC  
Holders

- Protect your expensive investments with high impact plastic trays
- 10 holders per tray

**CNC 30 Holder EDP 13887A**

**CNC 40 Holder EDP 13888A**

### TOOL HOLDER Fixtures

Made to be bolted down  
or for use in vises.



All tool holder fixtures fit CAT, BT, ISO & NMTB shank tooling.

EDP	Tightening Fixture	Taper	B	C	Key
<b>B50209A</b>	30 Taper Tooling	30	3.91"	3.00"	0.62"
<b>B50210A</b>	40 Taper Tooling	40	4.65"	3.00"	0.62"
<b>B50211A</b>	50 Taper Tooling	50	6.35"	4.00"	1.00"

## Weler, ER Collet Chucks & Tapping

### CAT40 WELER



**SAVINGS**  
vs Buying Individually  
**\$225**

#### KIT INCLUDES 8 PIECES

20mm CAT40 Weler Chuck	15021	POPULAR REDUCTION SLEEVES
20mm Weler Wrench	15048	1/8" 15050
20mm Reduction Sleeve Extractor	15179	1/4" 15052
		3/8" 15049
		1/2" 15055
		5/8" 15056

**\$629<sup>95</sup>** EDP 15100A

### Size 1 Rigid TAP ADAPTERS



**SAVINGS**  
vs Buying Individually  
**\$20**

#### KIT INCLUDES 5 PIECES

<b>POPULAR SIZES</b>	5/16 11607
#10 11604	3/8 11608
1/4 11606	1/2 11612

**\$128<sup>95</sup>** EDP 11273A

### ER16 Collet CAT40 CHUCKS



**SAVINGS**  
vs Buying Individually  
**\$240**

#### KIT INCLUDES 3 PIECES

2 1/2" 51013
3" 11006
6" 11007

**\$298<sup>95</sup>** EDP 11277A

### BT40 WELER



**SAVINGS**  
vs Buying Individually  
**\$305**

#### KIT INCLUDES 8 PIECES

20mm BT40 Weler Chuck	15037	POPULAR REDUCTION SLEEVES
20mm Weler Wrench	15048	1/8" 15050
20mm Reduction Sleeve Extractor	15179	1/4" 15052
		3/8" 15049
		1/2" 15055
		5/8" 15056

**\$629<sup>95</sup>** EDP 15099A

### Size 1 Torque TAP ADAPTERS



**SAVINGS**  
vs Buying Individually  
**\$50**

#### KIT INCLUDES 5 PIECES

<b>POPULAR SIZES</b>	5/16 11805
#10 11802	3/8 11806
1/4 11804	1/2 11808

**\$348<sup>95</sup>** EDP 11274A

### ER20 Collet CAT40 CHUCKS



**SAVINGS**  
vs Buying Individually  
**\$250**

#### KIT INCLUDES 3 PIECES

2 1/2" 17391
4" 51014
6" 51015

**\$328<sup>95</sup>** EDP 11278A

### CAT40 TAPPING KIT



**SAVINGS**  
vs Buying Individually  
**\$191**

#### KIT INCLUDES 14 PIECES

CAT40 Modular Shank	13200	ER16 Collet .236-.276	13804
Syncrolize SS Size 1 Adapter	13008	ER16 Collet .276-.315	13805
Size 1 Quick Change Collet	13600	ER16 Collet .315-.354	13806
ER16 Collet .079-.118	13800	ER16 Collet .354-.394	13807
ER16 Collet .118-.157	13801	T&C Straight Shank Holder	12000
ER16 Collet .157-.197	13802	Size 1 1/4" Rigid Tap Adapter	11606
ER16 Collet .197-.236	13803	Size 1 3/8" Torque Control Adapter	11806

**\$599<sup>95</sup>** EDP 11199A

### Size 2 Rigid TAP ADAPTERS



**SAVINGS**  
vs Buying Individually  
**\$25**

#### KIT INCLUDES 5 PIECES

<b>POPULAR SIZES</b>	5/8 11619
3/8 11615	3/4 11621
1/2 11617	7/8 11623

**\$188<sup>95</sup>** EDP 11275A

### ER25 Collet CAT40 CHUCKS



**SAVINGS**  
vs Buying Individually  
**\$229**

#### KIT INCLUDES 3 PIECES

2 1/2" 11008
3" 11009
8" 51016

**\$349<sup>95</sup>** EDP 11279A

### BT40 TAPPING KIT



**SAVINGS**  
vs Buying Individually  
**\$201**

#### KIT INCLUDES 14 PIECES

BT40 Modular Shank	13203	ER16 Collet .236-.276	13804
Syncrolize SS Size 1 Adapter	13008	ER16 Collet .276-.315	13805
Size 1 Quick Change Collet	13600	ER16 Collet .315-.354	13806
ER16 Collet .079-.118	13800	ER16 Collet .354-.394	13807
ER16 Collet .118-.157	13801	T&C Straight Shank Holder	12000
ER16 Collet .157-.197	13802	Size 1 1/4" Rigid Tap Adapter	11606
ER16 Collet .197-.236	13803	Size 1 3/8" Torque Control Adapter	11806

**\$599<sup>95</sup>** EDP 11198A

### Size 2 Torque TAP ADAPTERS



**SAVINGS**  
vs Buying Individually  
**\$100**

#### KIT INCLUDES 5 PIECES

<b>POPULAR SIZES</b>	5/8 11816
3/8 11812	3/4 11818
1/2 11814	7/8 11820

**\$398<sup>95</sup>** EDP 11276A

### ER32 Collet CAT40 CHUCKS



**SAVINGS**  
vs Buying Individually  
**\$239**

#### KIT INCLUDES 3 PIECES

3" 51013
5" 11013
8" 51017

**\$369<sup>95</sup>** EDP 11280A



# TOOLING PACKAGES



Standard - Premium - High Performance  
CAT 40 Shank

## Milling

## Drilling

## Tapping

Standard



**SAVINGS**  
vs Buying Individually  
**\$465**

**10 Piece Set Includes**

- |                  |                  |
|------------------|------------------|
| 2 - 1/4 EM 11060 | 1 - 5/8 EM 11073 |
| 2 - 3/8 EM 11061 | 2 - 3/4 EM 11063 |
| 2 - 1/2 EM 11062 | 1 - 1 EM 11075   |

**\$649<sup>95</sup>** EDP 11281A



**SAVINGS**  
vs Buying Individually  
**\$253**

**5 Piece Set Includes**

- |               |                |
|---------------|----------------|
| 1 - JKP L9680 | 2 - JT 11088   |
| 1 - JKP L9682 | 1 - ER16 11007 |

**\$579<sup>95</sup>** EDP 11284A



**SAVINGS**  
vs Buying Individually  
**\$252**

**22 Piece Tension & Compression Set**

- |                                    |           |
|------------------------------------|-----------|
| 1 - Set Rigid Tap Adapter Size 1   | 1 - 11050 |
| 1 - Set Rigid Tap Adapter Size 2   | 1 - 11052 |
| 1 - Set Torque Tap Adapters Size 1 |           |
| 1 - Set Torque Tap Adapter Size 2  |           |

**\$1,569<sup>95</sup>** EDP 11287A

Premium



**SAVINGS**  
vs Buying Individually  
**\$675**

**10 Piece Set Includes**

- |                  |                  |
|------------------|------------------|
| 2 - ER16 51013   | 1 - 5/8 EM 11073 |
| 3 - ER32 11012   | 1 - 3/4 EM 11063 |
| 2 - 1/2 EM 11062 | 1 - 1 EM 11075   |

**\$799<sup>95</sup>** EDP 11282A



**SAVINGS**  
vs Buying Individually  
**\$407**

**7 Piece Set Includes**

- |                |                |
|----------------|----------------|
| 1 - JKT L30532 | 2 - JT 11088   |
| 1 - JKT L30528 | 1 - JT 11089   |
| 1 - JKT L30530 | 1 - ER16 11007 |

**\$888<sup>95</sup>** EDP 11285A



**SAVINGS**  
vs Buying Individually  
**\$200**

**24 Piece Rigid Set Includes**

- |           |                                   |
|-----------|-----------------------------------|
| 2 - 11100 | 2 - Set Rigid Tap Adapters Size 1 |
| 2 - 11102 | 2 - Set Rigid Tap Adapters Size 2 |

**\$1,247<sup>95</sup>** EDP 11288A

Performance



**SAVINGS**  
vs Buying Individually  
**\$649**

**20 Piece Set Includes**

- |                  |                  |
|------------------|------------------|
| 3 - Weler 15023  | 2 - 3/4 RS 15062 |
| 2 - 1/4 RS 15057 | 2 - 1 RS 15064   |
| 2 - 3/8 RS 15065 | 2 - ER16 51013   |
| 2 - 1/2 RS 15060 | 3 - ER32 11012   |
| 2 - 5/8 RS 15061 |                  |

**\$2,599<sup>95</sup>** EDP 11283A



**SAVINGS**  
vs Buying Individually  
**\$500**

**14 Piece Set Includes**

- |                  |                  |
|------------------|------------------|
| 1 - HEXA L40016  | 1 - 1/2 RS 15060 |
| 1 - HEXA L40020  | 1 - 5/8 RS 15061 |
| 2 - HEXA L40024  | 1 - 3/4 RS 15062 |
| 2 - Weler 15023  | 1 - 1 RS 15064   |
| 1 - 1/4 RS 15057 | 2 - ER16 51013   |
| 1 - 3/8 RS 15065 |                  |

**\$2,898<sup>95</sup>** EDP 11286A



**SAVINGS**  
vs Buying Individually  
**\$526**

**20 Piece Syncrolize Set Includes**

- |           |           |
|-----------|-----------|
| 3 - 13004 | 1 - 13103 |
| 3 - 13013 | 3 - 13602 |
| 3 - 13600 | 1 - 13104 |
| 1 - 13100 | 1 - 13105 |
| 1 - 13101 | 1 - 13106 |
| 1 - 13102 | 1 - 13107 |

**\$2,899<sup>95</sup>** EDP 11289A

ER Collets not included in tooling packages. Standard & Coolant Tight individual pieces and sets can be found on pages 10 & 11














# TOOLING PACKAGES

Standard - Premium - High Performance

CAT 50 Shank

	Milling	Drilling	Tapping																																		
<b>Standard</b>	 <p><b>SAVINGS</b> vs Buying Individually <b>\$691</b></p> <p><b>10 Piece Set Includes</b></p> <table border="0"> <tr> <td>2 - 3/8 EM 11140</td> <td>2 - 3/4 EM 11156</td> </tr> <tr> <td>2 - 1/2 EM 11148</td> <td>2 - 1 EM 11163</td> </tr> <tr> <td>1 - 5/8 EM 11152</td> <td>1 - 1 1/4 EM 11166</td> </tr> </table> <p><b>\$899<sup>95</sup></b> EDP 11290A</p>	2 - 3/8 EM 11140	2 - 3/4 EM 11156	2 - 1/2 EM 11148	2 - 1 EM 11163	1 - 5/8 EM 11152	1 - 1 1/4 EM 11166	 <p><b>SAVINGS</b> vs Buying Individually <b>\$357</b></p> <p><b>5 Piece Set Includes</b></p> <table border="0"> <tr> <td>1 - JKP L9680</td> <td>2 - JT 11090</td> </tr> <tr> <td>1 - JKP L9682</td> <td>1 - ER16 11027</td> </tr> </table> <p><b>\$759<sup>95</sup></b> EDP 11293A</p>	1 - JKP L9680	2 - JT 11090	1 - JKP L9682	1 - ER16 11027	 <p><b>SAVINGS</b> vs Buying Individually <b>\$403</b></p> <p><b>22 Piece Tension &amp; Compression Set</b></p> <table border="0"> <tr> <td>1 - Set Rigid Tap Adapters Size 1</td> <td>1 - 11051</td> </tr> <tr> <td>1 - Set Rigid Tap Adapters Size 2</td> <td>1 - 11053</td> </tr> <tr> <td>1 - Set Torque Tap Adapters Size 1</td> <td></td> </tr> <tr> <td>1 - Set Torque Tap Adapters Size 2</td> <td></td> </tr> </table> <p><b>\$1,499<sup>95</sup></b> EDP 11296A</p>	1 - Set Rigid Tap Adapters Size 1	1 - 11051	1 - Set Rigid Tap Adapters Size 2	1 - 11053	1 - Set Torque Tap Adapters Size 1		1 - Set Torque Tap Adapters Size 2																	
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<b>Premium</b>	 <p><b>SAVINGS</b> vs Buying Individually <b>\$833</b></p> <p><b>10 Piece Set Includes</b></p> <table border="0"> <tr> <td>2 - ER16 11025</td> <td>1 - 5/8 EM 11152</td> </tr> <tr> <td>3 - ER32 11031</td> <td>1 - 3/4 EM 11156</td> </tr> <tr> <td>2 - 1/2 EM 11148</td> <td>1 - 1 EM 11163</td> </tr> </table> <p><b>\$1,099<sup>95</sup></b> EDP 11291A</p>	2 - ER16 11025	1 - 5/8 EM 11152	3 - ER32 11031	1 - 3/4 EM 11156	2 - 1/2 EM 11148	1 - 1 EM 11163	 <p><b>SAVINGS</b> vs Buying Individually <b>\$506</b></p> <p><b>7 Piece Set Includes</b></p> <table border="0"> <tr> <td>1 - JKT L30532</td> <td>2 - JT 11090</td> </tr> <tr> <td>1 - JKT L30528</td> <td>1 - JT 11091</td> </tr> <tr> <td>1 - JKT L30530</td> <td>1 - ER16 11027</td> </tr> </table> <p><b>\$1,169<sup>95</sup></b> EDP 11294A</p>	1 - JKT L30532	2 - JT 11090	1 - JKT L30528	1 - JT 11091	1 - JKT L30530	1 - ER16 11027	 <p><b>SAVINGS</b> vs Buying Individually <b>\$168</b></p> <p><b>24 Piece Rigid Set Includes</b></p> <table border="0"> <tr> <td>2 - 11101</td> <td></td> </tr> <tr> <td>2 - 11103</td> <td></td> </tr> <tr> <td>2 - Set Rigid Tap Adapters Size 1</td> <td></td> </tr> <tr> <td>2 - Set Rigid Tap Adapters Size 2</td> <td></td> </tr> </table> <p><b>\$1,499<sup>95</sup></b> EDP 11297A</p>	2 - 11101		2 - 11103		2 - Set Rigid Tap Adapters Size 1		2 - Set Rigid Tap Adapters Size 2															
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<b>Performance</b>	 <p><b>SAVINGS</b> vs Buying Individually <b>\$729</b></p> <p><b>20 Piece Set Includes</b></p> <table border="0"> <tr> <td>3 - Weler 15031</td> <td>2 - 3/4 RS 15062</td> </tr> <tr> <td>2 - 1/4 RS 15057</td> <td>2 - 1 RS 15064</td> </tr> <tr> <td>2 - 3/8 RS 15065</td> <td>2 - ER16 11025</td> </tr> <tr> <td>2 - 1/2 RS 15060</td> <td>3 - ER32 11031</td> </tr> <tr> <td>2 - 5/8 RS 15061</td> <td></td> </tr> </table> <p><b>\$2,999<sup>95</sup></b> EDP 11292A</p>	3 - Weler 15031	2 - 3/4 RS 15062	2 - 1/4 RS 15057	2 - 1 RS 15064	2 - 3/8 RS 15065	2 - ER16 11025	2 - 1/2 RS 15060	3 - ER32 11031	2 - 5/8 RS 15061		 <p><b>SAVINGS</b> vs Buying Individually <b>\$619</b></p> <p><b>14 Piece Set Includes</b></p> <table border="0"> <tr> <td>1 - HEXA L40018</td> <td>1 - 1/2 RS 15060</td> </tr> <tr> <td>1 - HEXA L40022</td> <td>1 - 5/8 RS 15061</td> </tr> <tr> <td>2 - HEXA L40026</td> <td>1 - 3/4 RS 15062</td> </tr> <tr> <td>2 - Weler 15031</td> <td>1 - 1 RS 15064</td> </tr> <tr> <td>1 - 1/4 RS 15057</td> <td>2 - ER16 11027</td> </tr> <tr> <td>1 - 3/8 RS 15065</td> <td></td> </tr> </table> <p><b>\$3,499<sup>95</sup></b> EDP 11295A</p>	1 - HEXA L40018	1 - 1/2 RS 15060	1 - HEXA L40022	1 - 5/8 RS 15061	2 - HEXA L40026	1 - 3/4 RS 15062	2 - Weler 15031	1 - 1 RS 15064	1 - 1/4 RS 15057	2 - ER16 11027	1 - 3/8 RS 15065		 <p><b>SAVINGS</b> vs Buying Individually <b>\$506</b></p> <p><b>20 Piece Syncrolize Set Includes</b></p> <table border="0"> <tr> <td>3 - 13005</td> <td>1 - 13103</td> </tr> <tr> <td>3 - 13014</td> <td>3 - 13602</td> </tr> <tr> <td>3 - 13600</td> <td>1 - 13104</td> </tr> <tr> <td>1 - 13100</td> <td>1 - 13105</td> </tr> <tr> <td>1 - 13101</td> <td>1 - 13106</td> </tr> <tr> <td>1 - 13102</td> <td>1 - 13107</td> </tr> </table> <p><b>\$3,069<sup>95</sup></b> EDP 11298A</p>	3 - 13005	1 - 13103	3 - 13014	3 - 13602	3 - 13600	1 - 13104	1 - 13100	1 - 13105	1 - 13101	1 - 13106	1 - 13102	1 - 13107
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Mix & Match to create the tooling package that best suits your needs.

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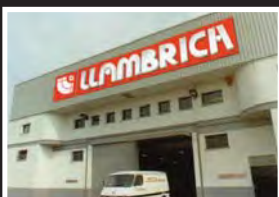
S.C.M. was founded in 1972, in Murisengo, Italy by Angelo and Eugenio Masoero, brothers who built and patented a rapid change chuck for tapping with an incorporated safety clutch, which was particularly suited to the machine tools used in that period. Over the years the company has broadened its production range and the technology has developed according to the machine tools our products are used on. S.C.M. obtained ISO 9001 Certification in 2000 and Vision 2000 certification in 2003. S.C.M. provides advanced engineering capabilities with efficient machining practices coupled with an effective marketing program that is present in all the most industrialized countries of the world. S.C.M. is still family owned and operated in Murisengo, Italy today. In 2001 a partnership was formed between S.C.M. and EuroLink to offer products throughout North America under the name SCM-America.



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TECNOSPIRO, S.A. is a company linked to the Spiroide Group whose activity consists in the manufacture of precision gears and mechanical transmission mechanisms for the equipment manufacturing industry. We are located in the industrial park "Poligon Industrial Pla dels Vinyats" in the municipality of Sant Joan de Vilatorrada, very close to Manresa, in the province of Barcelona, occupying a plant area of 3,000 sq. meters. with a staff of 53 employees, at level of industrial group. We are equipped with the best suited machinery for the manufacture of the most important components of our machines: CNC centers, precision gear cutting machines for the modules (reducers), KLINGELNBERG gear control units, MAUSER testers, milling machines, etc. Our machines fulfill the European safety standards EN 292-1 and EN 292-2, as per the directive 89/392 and EN 60204-1 according do directive 89/336/CEE. Our constant research work within the field of mechanics has allowed us to design the product which is being herein-after presented together with its genesis and development.



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