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METALWORKING  
SOLUTIONS

(800) 991-4225  
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ISO Certified  
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# CNC ROUTER TOOLING CATALOG

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**Aggregate Heads and Tool Holders**

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Wood, Composites, Plastics,  
Aluminum, and more...

**NOT JUST FOR WOOD ANYMORE**

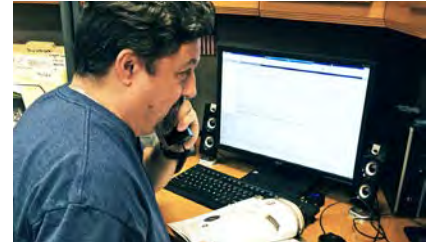
# TECHNIKS CNC TOOLING SOLUTIONS - FROM SPINDLE TO WORKPIECE

You know we make toolholders, but did you know we will work closely with you to understand your manufacturing needs, so we can provide the best possible solutions? Becoming a Techniks customer means you have an expert solutions partner who provides top quality products and excellent customer service backed by our satisfaction guarantee.

## WITH TECHNIKS YOU GET:

- Inspected, tested and lab-certified products that provide outstanding value and extend perishable cutting tool life to save you money.
- Full factory support before, during, and after the sale
- Guaranteed turn-key CNC tooling and workholding solutions
- Live phone support (toll-free) 7:00 am – 6:00 pm E.S.T.
- Orders ship the same day they are received! (ground orders received by 2:00 pm, or expedited orders received by 5:00 pm)
- Each order is checked 4 times before shipping.  
99.9% average shipping accuracy (we track this each month)
- All products are backed by our 100% satisfaction guarantee
- Training on how to use our products if needed
- 24/7 access to request a quote, look up product information, request catalogs, on the web ([www.technikususa.com](http://www.technikususa.com))
- Receive promotions and product information by opt-in email

The entire Techniks team is committed to excellent customer service for fast and accurate fulfillment of orders. Thank You for considering Techniks for your CNC tooling needs.



Live phone support M-F, 7:00 am – 6:00 pm EST



Orders ship the same day they are received.



RoadShow live product demos at your facility.

## CONTACT INFORMATION

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Indianapolis, IN 46236



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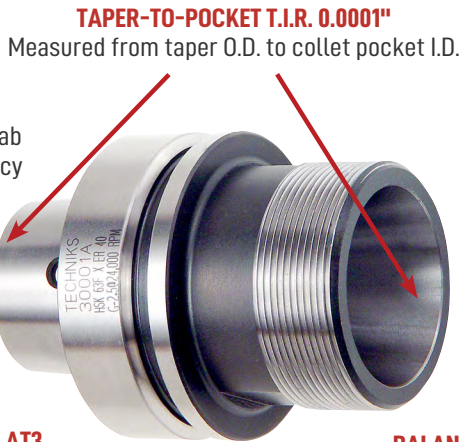
# WHAT DOES TECHNIKS CERTIFIED MEAN?

## TECHNIKS CERTIFIED = Manufactured to The Highest Standards



Techniks Certified means the critical features of each holder has been individually lab tested, measured and inspected for quality. Techniks Certified guarantees your holder will meet or beat our published specifications.

**LAB CERTIFIED ACCURACY**  
Each toolholder is lab certified for accuracy and balance.



**TAPER ACCURACY AT3**  
Taper ground to AT3 accuracy for maximum contact with spindle.

**ULTRA PRECISION COLLET**  
Each collet hand inspected. T.I.R. only 0.0002"



**BALANCED TO 25,000 RPM**  
Factory balanced to 25,000 RPM at G2.5 Custom balancing to 60,000 RPM available.

**POWERCOAT NUTS**  
Our PowerCOAT nut holds 70% tighter than standard nuts for best T.I.R. and rigidity.



**BALANCED NUT**  
Balanced nut reduces vibration to extend cutting tool life.

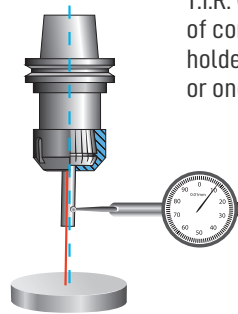
## A FULL REPORT COMES WITH EACH HOLDER

INSPECTION REPORT		Balanced to G2.5 25,000 RPM	
MODEL NO :	SYIC-		
COMMODITY :	HSK/ER COLLET CHUCK TYPE F		
TYPE :			
UNIT mm	IN V 25.4mm	Tolerance	Standard
ITEM EXAMINED	TYPE	U	D
APPROVED	HSK/ER #40 12.00 #29.05 2.00 #1.42 0.002	0.002	0.005
TOLERANCE	HSK/ER #30 12.00 #26.30 2.00 #1.13 0.002		
TEST VALUE	HSK/ER #40 12.00 #26.53 2.00 #1.13 0.002		
Operator:	DATE: 31. 1 2008		

TEST REPORT OF BALANCE	
MODEL NO :	SYIC-TE-30000-N
COMMODITY :	HSK/ER COLLET CHUCK
TYPE :	HSK/ER32-70
OPERATION :	G2.5 24000 RPM
POTENTIAL UNBALANCE :	(M/C) 0.549 g
MEASURED TOP :	0.002 g
UNBALANCE BOTTOM :	0.002 g
NOTE :	(1) SEE THE DRAWING AS FOLLOWING
	(2) R < 100 mm MEASURED BY 1 PLANE ( BOTTOM )
	(3) > 100 mm MEASURED BY 2 PLANE ( TOP & BOTTOM )
SYIC-TE-30000-N	Permissible 74 kg
HSK/ER32-70	2000 kg
Permissible unbal. (mm)	0.0
Actual unbal. (mm)	0.2
	(1.0) 0.68

## HOW T.I.R. AFFECTS CUTTING TOOL LIFE

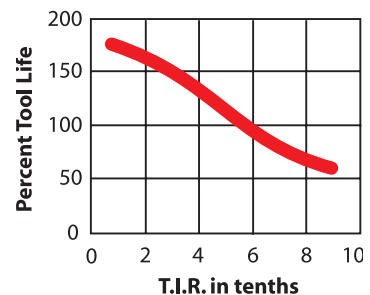


T.I.R. (total indicator runout) is the measure of concentricity of the cutting tool in the tool holder. T.I.R. is measured in "tenths" (.0001") or one ten-thousandths of an inch.

Cutting tool life decreases by 10% for every .0001" T.I.R. The rigidity and accuracy of Techniks Toolholders minimizes T.I.R.

Toolholders make the important connection between the machine spindle and the cutting tool.

Quality toolholders extend tool life by 150% or more.

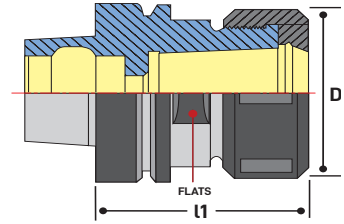


**YOU LOSE 10% TOOL LIFE FOR EVERY .0001" T.I.R.**



## FEATURES

- Balanced to 25,000 RPM at G2.5
- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- PowerCOAT Nut increases holding power by 75%



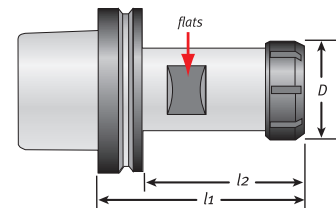
## HSK50F / 63F COLLET CHUCKS

Part No.	Description	l1	D	Nut (Incl.)	Nut Wrench (Opt.)	Wrench Flats
31419-F	HSK50F x ER32 - 80mm, slotted nut	80mm	50mm	46132	04616	36mm
103.123.11.100	HSK63F x ER11 - 100mm, mini nut	100mm	16mm	23111	04621	-
31431-F	HSK63F x ER16 - 60mm, slotted nut	60mm	32mm	46116	04613	26mm
31434-F	HSK63F x ER16 - 100mm, slotted nut	100mm	32mm	46116	04613	26mm
30000	HSK63F x ER32 - 70mm, slotted nut	70mm	50mm	46132	04616	36mm
30001	HSK63F x ER40 - 75mm, slotted nut	75mm	63mm	46140	04617	46mm
30001-L	HSK63F x ER40 - 75mm, left-hand thread	75mm	63mm	46140-L	04617	46mm
30001-Solid	HSK63F x ER40 - 75mm, No thru hole	75mm	63mm	46140	04617	46mm
30002	HSK63F x ER40 - 90mm, slotted nut	90mm	63mm	46140	04617	46mm
30003	HSK63F x ER40 - 115mm, slotted nut	115mm	63mm	46140	04617	46mm
30005	HSK63F x ER40 - 125mm, slotted nut	125mm	63mm	46140	04617	46mm
31025F	HSK63F x SYOZ 25 - 80mm, slotted nut	80mm	60mm	83632	83691	38mm



## FEATURES

- Balanced to 25,000 RPM at G2.5
- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- PowerCOAT Nut increases holding power by 75%



## HSK32E / 40E / 50E / 63E COLLET CHUCKS

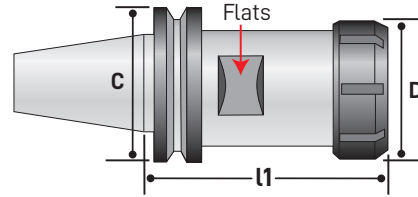
Part No.	Description	l1	l2	D	Nut (Incl.)	Set Screw (Opt.)	Nut Wrench (Opt.)	Wrench Flats
31374-60-E	HSK32E x ER25 - 60mm, slotted nut	60mm	27mm	42mm	46125	16089	04615	22mm
31376-E	HSK40E x ER16 - 65mm, slotted nut	65mm	45mm	32mm	46116	16083	04613	24mm
31383-E	HSK40E x ER25 - 75mm, slotted nut	75mm	55mm	42mm	46125	16089	04615	27mm
31386-E	HSK40E x ER32 - 100mm, slotted nut	100mm	80mm	50mm	46132	16089	04616	35mm
31402-E	HSK50E x ER16 - 80mm, slotted nut	80mm	60mm	28mm	46116	16083	04613	27mm
31419-E	HSK50E x ER32 - 85mm, slotted nut	85mm	59mm	50mm	46132	16089	04616	36mm
31456-E	HSK63E x ER32 - 90mm, slotted nut	90mm	64mm	50mm	46132	16089	04616	36mm
31472-E	HSK63E x ER40 - 120mm, slotted nut	120mm	94mm	63mm	46140	16091	04617	46mm
50001	HSK63E x ER40 - 75mm, slotted nut	75mm	49mm	63mm	46140	16091	04617	46mm

# ISO & SK COLLET CHUCKS



## FEATURES

- Balanced to 25,000 RPM at G2.5
- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- PowerCOAT Nut increases holding power by 75%



## ISO 20 / ISO 25 COLLET CHUCKS

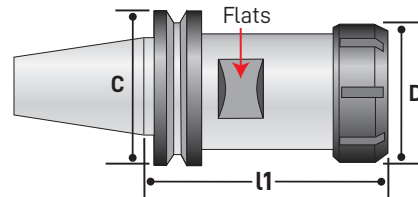
Part No.	Description	l1	C	D	Nut (Incl.)	Nut Wrench (Opt.)	Wrench Flats
16000-2516M	*ISO 20 x ER16 - 52mm, HS mini nut & pull stud	52mm	30mm	22mm	53116	04622	17mm
16000-2516	ISO 20 x ER16 - 52mm, slotted nut & pull stud	52mm	30mm	32mm	46116	04613	17mm
16000-2520	ISO 20 x ER20 - 52mm, slotted nut & pull stud	52mm	30mm	35mm	46120	04614	17mm
12194-ISO25	ISO 25 x ER25 - 50mm, slotted nut & pull stud	50mm	38mm	42mm	46125	04615	27mm
25077	ISO 25 x ER25 - 65mm, slotted nut & pull stud	65mm	38mm	42mm	46125	04615	27mm

\*Balanced to 50,000 RPM. Use for Haas OM-1A, OM-2A Office Mills. Haas is trademark of Haas Automation and used here for identification only.



## FEATURES

- Balanced to 25,000 RPM at G2.5
- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- PowerCOAT Nut increases holding power by 75%



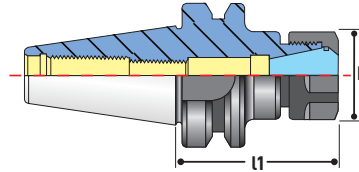
## ISO 30 / ISO 40 / SK 30 COLLET CHUCKS

Part No.	Description	l1	C	D	Nut (Incl.)	Nut Wrench (Opt.)	Wrench Flats
42407-W	ISO 30 x ER11 - 100mm, mini nut	100mm	50mm	16mm	23111	04621	14mm
42213-W-50	ISO 30 x ER32 - 50mm, slotted nut	50mm	50mm	50mm	46132	04616	47mm
42213-W-63	ISO 30 x ER32 - 63mm, slotted nut	63mm	50mm	50mm	46132	04616	36mm
42213-W-90	ISO 30 x ER32 - 90mm, slotted nut	90mm	50mm	50mm	46132	04616	36mm
12000-CMS	ISO 30 x ER32 - CMS toolholder	58mm	46mm	50mm	46132	04616	36mm
12040-CMS	ISO 30 x ER40 - CMS toolholder	66mm	46mm	63mm	46140	04617	42mm
42215-W-57	ISO 30 x ER40 - 57mm, slotted nut	57mm	50mm	63mm	46140	04617	47mm
42261-W	ISO 40 x ER40 - 70mm, slotted nut	70mm	63.55mm	63mm	46140	04617	46mm
NT-54300130	SK-30 x SYOZ 25 - 63mm	63mm	50mm	60mm	83632	03691	38mm



## FEATURES

- Balanced to 25,000 RPM at G2.5
- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- PowerCOAT Nut increases holding power by 75%



## BT30 ER COLLET CHUCKS **WITHOUT SLOTS**

Part No.	Description	l1	D	Nut (Incl.)	Set Screw (Opt.)	Nut Wrench (Opt.)
16106-W	BT30 x ER20 - 70 without drive slots	70mm	34mm	46120	16087	04614
16121	BT30 x ER32 - 60, 41mm no flats - Komo	60mm	50mm	46132	16089	04616
16131	BT30 x ER32 - 90 38mm no flats - Komo	90mm	50mm	46132	16089	04616

## BT30 ER COLLET CHUCKS **WITH SLOTS**

Part No.	Description	l1	D	Nut (Incl.)	Set Screw (Opt.)	Nut Wrench (Opt.)
16102	BT30 x ER16 - 60mm, hex nut	60mm	1.08"	41116	16083	04609
16101	BT30 x ER16 - 70mm, hex nut	70mm	1.08"	41116	16083	04609
16103	BT30 x ER16 - 90mm, hex nut	90mm	1.08"	41116	16083	04609
16104	BT30 x ER16 - 100mm, hex nut	100mm	1.08"	41116	16083	04609
16105	BT30 x ER16 - 120mm, hex nut	120mm	1.08"	41116	16083	04609
16106	BT30 x ER20 - 70mm, hex nut	70mm	1.34"	41120	16087	04610
16107	BT30 x ER20 - 135mm, hex nut	135mm	1.34"	41120	16087	04610
16108-2.5	BT30 x ER20 - 63.5mm, hex nut	63.5mm	1.34"	41120	16087	04610
16109	BT30 x ER25 - 70mm, slotted nut	70mm	1.65"	41925	16089	04615
16110	BT30 x ER25 - 60mm, slotted nut	60mm	1.65"	41925	16089	04615
16111-90	BT30 x ER25 - 90mm, slotted nut	90mm	1.65"	41925	16089	04615
16111	BT30 x ER25 - 135mm, slotted nut	135mm	1.65"	41925	16089	04615
16112	BT30 x ER32 - 60mm, slotted nut	60mm	1.97"	41932	16089	04616
16113	BT30 x ER32 - 70mm, slotted nut	70mm	1.97"	41932	16089	04616
16114	BT30 x ER32 - 100mm, slotted nut	100mm	1.97"	41932	16089	04616
16115	BT30 x ER40 - 80mm, slotted nut	80mm	2.48"	41940	16089	04617

## BT30XSYOZ 25 COLLET CHUCKS

Part No.	Description	l1	D	Nut (Incl.)	Nut Wrench (Opt.)
16001-W	BT30 x SYOZ 25 - 70, 38mm flats	70mm	60mm	83632	03691
16001	BT30 x SYOZ 25 - 70 with nut	70mm	60mm	83632	03691

## BT35XER32 / SYOZ 25 COLLET CHUCKS FOR HEIAN ROUTERS

Part No.	Description	l1	D	Nut (Incl.)	Nut Wrench (Opt.)
16010	BT35 x SYOZ 25 - 76	76mm	60mm	83632	03691
161-BT35-ER32-76	BT35 x ER32 - 76	76mm	50mm	46132	04616

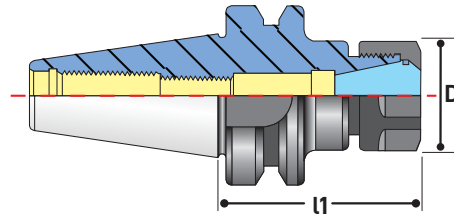


# BT COLLET CHUCKS



## FEATURES

- Balanced to 25,000 RPM at G2.5
- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- PowerCOAT Nut increases holding power by 75%



## BT40 ER COLLET CHUCKS

Part No.	Description	l1	D	Nut (Incl.)	Set Screw (Opt.)	Nut Wrench (Opt.)
16151	BT40 x ER16 - 70mm, hex nut	70mm	1.08"	41116	16083	04609
16153	BT40 x ER16 - 100mm, hex nut	100mm	1.08"	41116	16083	04609
16155	BT40 x ER16 - 125mm, hex nut	125mm	1.08"	41116	16083	04609
16157	BT40 x ER16 - 150mm, hex nut	150mm	1.08"	41116	16083	04609
16158	BT40 x ER16 - 180mm, hex nut	180mm	1.08"	41116	16083	04609
16159	BT40 x ER20 - 70mm, hex nut	70mm	1.34"	41120	16085	04610
16162	BT40 x ER20 - 100mm, hex nut	100mm	1.34"	41120	16085	04610
16165	BT40 x ER20 - 135mm, hex nut	135mm	1.34"	41120	16085	04610
16167	BT40 x ER20 - 150mm, hex nut	150mm	1.34"	41120	16085	04610
16169	BT40 x ER25 - 70mm, slotted nut	70mm	1.65"	41925	16089	04615
16171	BT40 x ER25 - 100mm, slotted nut	100mm	1.65"	41925	16089	04615
16175	BT40 x ER25 - 150mm, slotted nut	150mm	1.65"	41925	16089	04615
16177	BT40 x ER32 - 70mm, slotted nut	70mm	1.97"	41932	16089	04616
16179	BT40 x ER32 - 100mm, slotted nut	100mm	1.97"	41932	16089	04616
16181	BT40 x ER32 - 150mm, slotted nut	150mm	1.97"	41932	16089	04616
16183	BT40 x ER40 - 80mm, slotted nut	80mm	2.48"	41940	16089	04617
16185	BT40 x ER40 - 100mm, slotted nut	100mm	2.48"	41940	16089	04617
16189	BT40 x ER40 - 150mm, slotted nut	150mm	2.48"	41940	16089	04617

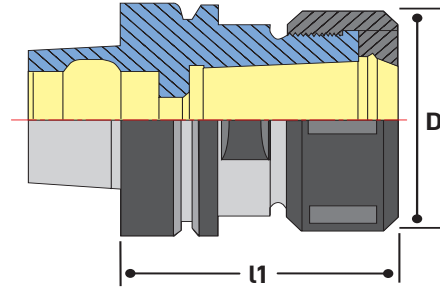




# HIGH PERFORMANCE COLLET CHUCKS

## FEATURES

- Highest precision up to 0.008mm run-out can be achieved
- Up to 40% higher clamping force possible
- Rollerbearing tightening stand required. (No wrench flats to promote better balance.)

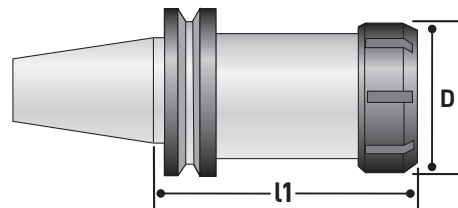


## HSK63F HIGH PERFORMANCE COLLET CHUCKS

Part No.	Description	l1	D	Nut Wrench (Opt.)	Torque Wrench Adapter (Opt.)	Recommended Torque
HP30001	HSK63F x ER40	76mm	60mm	83691	03690-25	132 ft. lbs.

## FEATURES

- Highest precision up to 0.008mm run-out can be achieved
- Up to 40% higher clamping force possible
- Rollerbearing tightening stand required. (No wrench flats to promote better balance.)



## ISO30 HIGH PERFORMANCE COLLET CHUCKS\*

Part No.	Description	l1	D	Nut Wrench (Opt.)	Torque Wrench Adapter (Opt.)	Recommended Torque
HP10200307	ISO30 x ER32	80mm	50mm	04018	04018-TWA	132 ft. lbs. 180

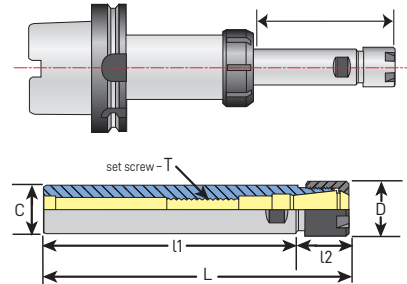
\*ISO30 comes with 49019 pull stud from factory.

# PRECISION ER MINI-NUT STRAIGHT SHANK EXTENSIONS



## FEATURES

- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- All surfaces precision ground
- PowerCOAT Nut increases holding power by 75%



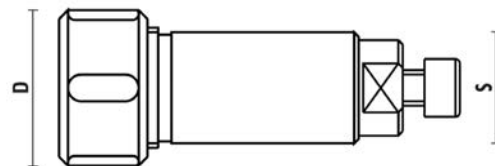
## MINI-NUT ER STRAIGHT SHANK EXTENSIONS

Part No.	Description	C	L	I1	I2	D	Set Screw (Opt.)	Nut Wrench (Opt.)
04889	3/8" x ER8, - 100mm	3/8"	124mm	100mm	24mm	12mm	-	04620
04891	1/2" x ER11, - 140mm	1/2"	166.5mm	140mm	26.5mm	16mm	-	04621
04893	5/8" x ER11, - 140mm	5/8"	158.5mm	140mm	18.5mm	16mm	-	04621
04895	1/2" x ER16, - 140mm	1/2"	177mm	140mm	37mm	22mm	-	04622
04896	3/4" x ER16, - 140mm	3/4"	165mm	140mm	25mm	22mm	16083	04622
04892	1/2" x ER20, - 140mm	1/2"	180mm	140mm	40mm	28mm	16083	04623
04894	3/4" x ER20, - 140mm	3/4"	180mm	140mm	40mm	28mm	16083	04623
04881	20mm x ER20, - 180mm	20mm	220mm	180mm	40mm	28mm	16083	04623
04897	1" x ER20, - 140mm	1"	168mm	140mm	28mm	28mm	16083	04623
04898	3/4" x ER25, - 100mm	3/4"	149mm	100mm	49mm	35mm	16087	04624
04888	1" x ER25, - 140mm	1"	190mm	140mm	50mm	35mm	16083	04624



## FEATURES

- This precision collet chuck is manufactured with the required 25 mm shank, a height adjustment screw, and is designed to accept standard SYOZ 20 style collets. (For shank diameters up to 1/2".)



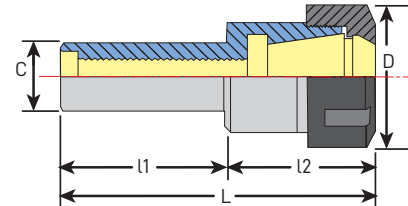
## SYOZ 20 / EOC12 WEEKE EXTENSION

Part No.	Description	D	Nut Wrench (Opt.)
SYOZ20-EXT-W	25mm x SYOZ20	35mm	22220



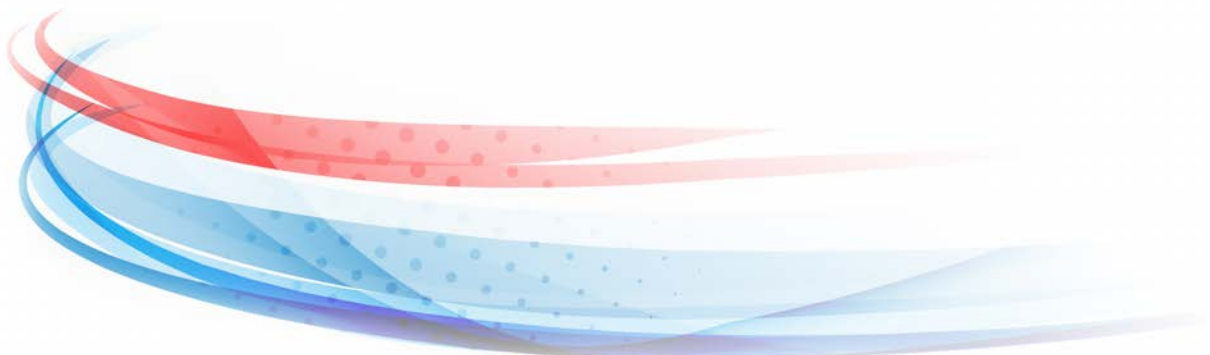
## FEATURES

- Maximum 0.0001" T.I.R. measured from taper to collet pocket
- All surfaces precision ground
- PowerCOAT Nut increases holding power by 75%



## ER STRAIGHT SHANK EXTENSIONS

Part No.	Description	C	L	l1	l2	D	Set Screw (Opt.)	Nut Wrench (Opt.)
04851	16mm x ER11, - 140mm, hex nut	16mm	174.5mm	140mm	21.6mm	19mm	-	04608
04855	1/2" x ER11, - 140mm, hex nut	1/2"	174.5mm	140mm	21.6mm	19mm	-	04608
04854	5/8" x ER11, - 140mm, hex nut	5/8"	174.5mm	140mm	21.6mm	19mm	-	04608
04832	5/8" x ER16, - 60mm, hex nut	5/8"	95.1mm	60mm	35.1mm	28mm	-	04609
04834	3/4" x ER16, - 50mm, hex nut	3/4"	85.1mm	50mm	35.1mm	28mm	16083	04609
04835	3/4" x ER16, - 100mm, hex nut	3/4"	135.1mm	100mm	35.1mm	28mm	16083	04609
04856	3/4" x ER16, - 140mm, hex nut	3/4"	175.1mm	140mm	35.1mm	28mm	16083	04609
04836-2.5	3/4" x ER20, - 2-1/2", hex nut	3/4"	100mm	2-1/2"	38mm	34mm	16083	04610
04858	1.0" x ER20, - 140mm, hex nut	1.0"	180.5mm	140mm	40.5mm	34mm	16083	04610
04837	1.0" x ER25, - 50mm, slotted nut	1.0"	101mm	50mm	51mm	42mm	16089	04615
04817	20mm x ER32, - 50mm, slotted nut	20mm	97.1mm	50mm	47mm	50mm	16089	04616
04818	20mm x ER32, - 100mm, slotted nut	20mm	146.5mm	100mm	47mm	50mm	16083	04616
04839	1" x ER32, - 50mm, slotted nut	1"	101.5mm	50mm	51.5mm	50mm	16089	04616
04839-140	1" x ER32, - 140mm, slotted nut	1"	191.5mm	140mm	51.5mm	50mm	16083	04616
04843	1-1/4" x ER32, - 60mm, slotted nut	1-1/4"	111.5mm	60mm	51.5mm	50mm	16089	04616
04841	1" x ER40, - 50mm, slotted nut	1"	115mm	50mm	65mm	63mm	16083	04617

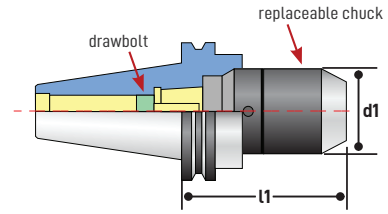


# DRILL CHUCKS



## FEATURES

- 3 times more holding power than other drill chucks
- Holds non-standard shank sizes up to 1/2"
- Replaceable chuck is held by a drawbolt



## REPLACEABLE DRILL CHUCKS

Part No.	Description	l1	d1
16456-W	BT30 x SPU 13mm - 110mm (no slots)	110mm	50mm
16456	BT30 x SPU 13mm - 110mm	110mm	50mm
34905-F	HSK63F x SPU 13mm - 150mm	150mm	50mm
82164	SPU drill chuck (replacement)		
82172	SPU drill chuck wrench (replacement)		

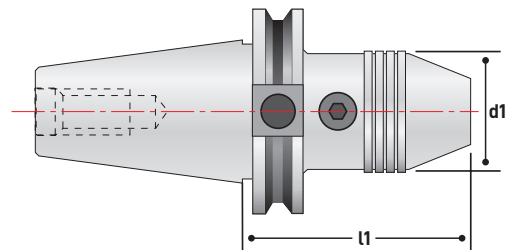


Our HP3 High-Precision Drill Chucks have the flexibility to hold a wide range of shank sizes and deliver superior performance too. Maximum runout (T.I.R.) is only .0008".

They also feature a one-piece design that provides greater rigidity and safety because the chuck cannot break free during operation.

## FEATURES

- Capacity from 1/16" to 1/2"
- 4X greater holding power than standard drill chucks
- Balanced to 10,000 RPM



## HP3 PRECISION DRILL CHUCKS (ISO, BT, HSK)

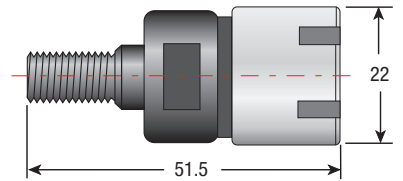
Part No.	Description	l1	d1
67.05.046.001	BT30 HP3 drill chuck 1/2"	92.5mm	50mm
171.05.046.003	HSK63F HP3 drill chuck 1/2"	123.5mm	50mm
64.05.046.051	ISO30 HP3 drill chuck 1/2"	103mm	50mm

# DRILL CHUCK ADAPTERS AND CMS HOLDER WITH TURRET NUT



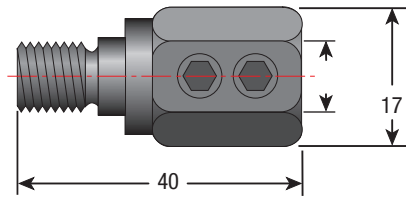
## FEATURES

- ER collet or side-lock style
- Eliminate threaded drill bits
- Better rigidity & holding power



## DRILL ADAPTER COLLETS

Part No.	Collet	Max. Shank	Thread
00316-R	ER16	3/8" or 10mm	Right
00316-L	ER16	3/8" or 10mm	Left



## THREADED DRILL ADAPTERS

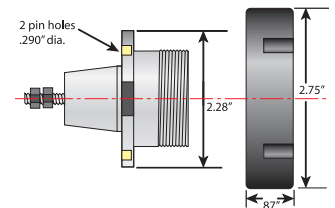
Designed for CNC Routers with inline Multi-Spindles.

Part No.	Shank	Thread	I.D.
00316-SLN-R	M10x1.05	Right	10mm
00316-SLN-L	M10x1.05	Left	10mm



## FEATURES

- Use with ER32 collets
- 0.0002" T.I.R. (collet pocket runout)
- Taper ground to AT3 specification



## CMS TOOLHOLDER

Part No.	Description
CMS-RR32	CMS Toolholder with turret nut

# TECHNIKS CERTIFIED COLLETS & COLLET NUTS

## ER COLLETS FROM ER8 THRU ER40 – INCH AND METRIC SIZES

### TECHNIKS COLLET ADVANTAGES

1. manufactured to highest industry standards
2. each collet is hand inspected for quality
3. runout (T.I.R.) averages 0.0002"
4. ultra-precision collets available (T.I.R. 0.0001")

Techniks collets are manufactured from high carbon-bearing steel using a special Swiss grinding technique. Each collet is heat treated for improved clamping range and longer life.

Depend on Techniks collets to provide unsurpassed accuracy and holding power to extend cutting tool life.



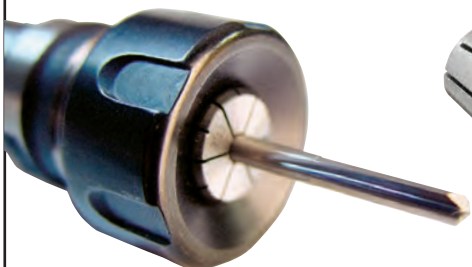
I.D. SIZES  
FROM 1/16"

UP TO 1"



Use PowerCOAT nuts for best rigidity and router bit life.

### USE DNA ER COLLETS (DEAD NUTS ACCURATE) FOR SMALL ROUTER BITS & CUTTERS

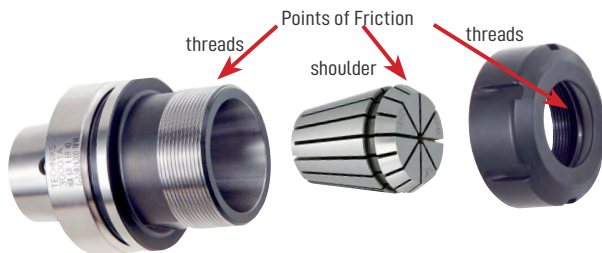


- 0.0002" T.I.R.
- Best collet for tools 6mm and smaller
- Works with standard ER holders



## CNC ROUTERS RUN BETTER WITH POWERCOAT

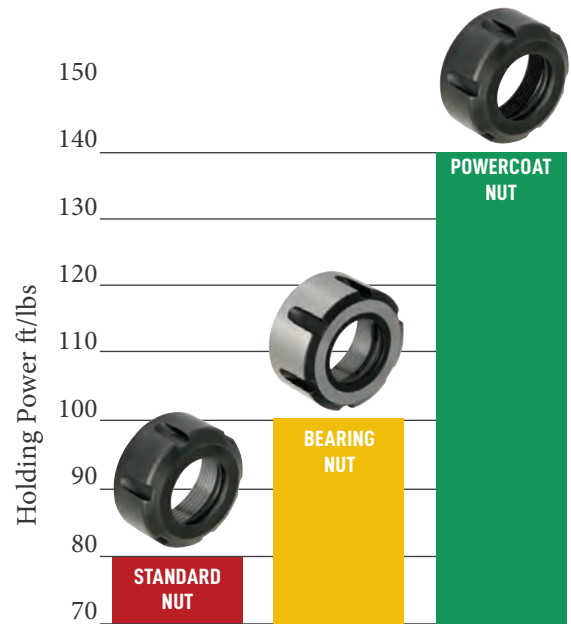
PowerCOAT nuts greatly reduce friction between the nut, collet shoulder, and tool holder threads to increase down force on the collet, making it collapse tighter around the tool shank. This improves holding power and runout (T.I.R.). Better T.I.R. means cutting is faster and smoother and tool life is improved too.



## POWERCOAT NUTS OUTPERFORM BEARING NUTS

- 40% more holding power = Greater rigidity & accuracy
- Less runout (T.I.R.), better balance (up to 70,000 RPMs)
- Safer: cutting tool is less likely break free

## HOLDING POWER TESTING – FT/LBS



## WHY BEARING NUTS ARE OBSOLETE TECHNOLOGY

Rubber bearing seals eventually fail, then dust contaminates bearings, making them seize up.

Uncoated threads limit holding power.



Bearing nuts cannot be balanced because they have moving parts, so cutting tools wear prematurely.

# ER COLLETS - INCH



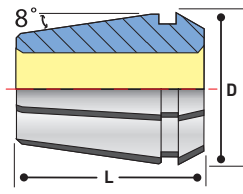
## FEATURES

- Average .0002" T.I.R.
- Collapse range: .039"
- Compatible with DR, RD, ESX, AR, & BR series collets.



## DIMENSIONS

Use this table for selecting your replacement collets. ER collets all have unique length and diameter measurements.



ER Size	L	D
ER8	13mm (.51")	8.5mm (.33")
ER11	18mm (.708")	11.5mm (.45")
ER16	27.5mm (1.08")	17mm (.67")
ER20	31.5mm (1.24")	21mm (.83")
ER25	34mm (1.34")	26mm (1.02")
ER32	40mm (1.57")	33mm (1.3")
ER40	46mm (1.81")	41mm (1.61")
ER50	60 mm (2.36")	52mm (2.05")

## ER COLLET SETS INCH

Part No.	Size	Pcs.	Collets Included	Fits Shank Sizes
04208IS	ER11	7	1/16 – 1/4" by 32nds	1/32 – 1/4"
04209IS	ER16	10	3/32 – 3/8" by 32nds	1/16 – 3/8"
04210IS	ER20	12	5/32 – 1/2" by 32nds	1/8 – 1/2"
04211IS	ER25	16	5/32 – 5/8" by 32nds	1/8 – 5/8"
04212IS	ER32	18	7/32 – 3/4" by 32nds	3/16 – 3/4"
04213IS	ER40	13	1/8 – 1.0" by 16ths	1/8 – 1.0"

NOTE: ER40 collet set does not include 13/16 and 15/16 size collets.

## ER8 COLLETS INCH

Part No.	Collapse Range	Shank
04208-1/16	.043 – .062"	1/16"
04208-1/8	.086 – .125"	1/8"
04208-3/16	.148 – .187"	3/16"

## ER11 COLLETS INCH

Part No.	Collapse Range	Shank
04211-1/16	.043 – .062"	1/16"
04211-3/32	.054 – .093"	3/32"
04211-1/8	.086 – .125"	1/8"
04211-5/32	.117 – .156"	5/32"
04211-3/16	.148 – .187"	3/16"
04211-7/32	.179 – .218"	7/32"
04211-1/4	.211 – .250"	1/4"
04211-9/32	.242 – .281"	9/32"

## ER16 COLLETS INCH

Part No.	Collapse Range	Shank
04216-1/16	.043 – .062"	1/16"
04216-3/32	.054 – .093"	3/32"
04216-1/8	.086 – .125"	1/8"
04216-5/32	.117 – .156"	5/32"
04216-3/16	.148 – .187"	3/16"
04216-7/32	.179 – .218"	7/32"
04216-1/4	.211 – .250"	1/4"
04216-9/32	.242 – .281"	9/32"
04216-5/16	.273 – .312"	5/16"
04216-11/32	.304 – .343"	11/32"
04216-3/8	.336 – .375"	3/8"
04216-13/32	.367 – .406"	13/32"

## ER20 COLLETS INCH

Part No.	Collapse Range	Shank
04220-1/16	.043 – .062"	1/16"
04220-3/32	.054 – .093"	3/32"
04220-1/8	.086 – .125"	1/8"
04220-5/32	.117 – .156"	5/32"
04220-3/16	.148 – .187"	3/16"
04220-7/32	.179 – .218"	7/32"
04220-1/4	.211 – .250"	1/4"
04220-9/32	.242 – .281"	9/32"
04220-5/16	.273 – .312"	5/16"
04220-11/32	.304 – .343"	11/32"
04220-3/8	.336 – .375"	3/8"
04220-13/32	.367 – .406"	13/32"
04220-7/16	.398 – .437"	7/16"
04220-15/32	.429 – .468"	15/32"
04220-1/2	.461 – .500"	1/2"



## ER25 COLLETS INCH

Part No.	Inch Range	Shank
04225-3/32	.054 – .093"	3/32"
04225-1/8	.086 – .125"	1/8"
04225-5/32	.117 – .156"	5/32"
04225-3/16	.148 – .187"	3/16"
04225-7/32	.179 – .218"	7/32"
04225-1/4	.211 – .250"	1/4"
04225-9/32	.242 – .281"	9/32"
04225-5/16	.273 – .312"	5/16"
04225-11/32	.304 – .343"	11/32"
04225-3/8	.336 – .375"	3/8"
04225-13/32	.367 – .406"	13/32"
04225-7/16	.398 – .437"	7/16"
04225-15/32	.429 – .468"	15/32"
04225-1/2	.461 – .500"	1/2"
04225-17/32	.492 – .531"	17/32"
04225-9/16	.523 – .562"	9/16"
04225-19/32	.554 – .593"	19/32"
04225-5/8	.586 – .625"	5/8"
04225-3/4	.711 – .750"	3/4"

## ER32 COLLETS INCH

Part No.	Inch Range	Shank
04232-1/16	.043 – .062"	1/16"
04232-3/32	.054 – .093"	3/32"
04232-1/8	.086 – .125"	1/8"
04232-5/32	.117 – .156"	5/32"
04232-3/16	.148 – .187"	3/16"
04232-7/32	.179 – .218"	7/32"
04232-1/4	.211 – .250"	1/4"
04232-9/32	.242 – .281"	9/32"
04232-5/16	.273 – .312"	5/16"
04232-11/32	.304 – .343"	11/32"
04232-3/8	.336 – .375"	3/8"
04232-13/32	.367 – .406"	13/32"
04232-7/16	.398 – .437"	7/16"
04232-15/32	.429 – .468"	15/32"
04232-1/2	.461 – .500"	1/2"
04232-17/32	.492 – .531"	17/32"
04232-9/16	.523 – .562"	9/16"
04232-19/32	.554 – .593"	19/32"
04232-5/8	.586 – .625"	5/8"
04232-21/32	.617 – .656"	21/32"
04232-11/16	.648 – .687"	11/16"
04232-23/32	.679 – .718"	23/32"
04232-3/4	.711 – .750"	3/4"

## ER40 COLLETS INCH

Part No.	Inch Range	Shank
04240-1/8	.086 – .125"	1/8"
04240-5/32	.117 – .156"	5/32"
04240-3/16	.148 – .187"	3/16"
04240-7/32	.179 – .218"	7/32"
04240-1/4	.211 – .250"	1/4"
04240-9/32	.242 – .281"	9/32"
04240-5/16	.273 – .312"	5/16"
04240-11/32	.304 – .343"	11/32"
04240-3/8	.336 – .375"	3/8"
04240-13/32	.367 – .406"	13/32"
04240-7/16	.398 – .437"	7/16"
04240-15/32	.429 – .468"	15/32"
04240-1/2	.461 – .500"	1/2"
04240-17/32	.492 – .531"	17/32"
04240-9/16	.523 – .562"	9/16"
04240-19/32	.554 – .593"	19/32"
04240-5/8	.586 – .625"	5/8"
04240-21/32	.617 – .656"	21/32"
04240-11/16	.648 – .687"	11/16"
04240-23/32	.679 – .718"	23/32"
04240-3/4	.711 – .750"	3/4"
04240-25/32	.742 – .781"	25/32"
04240-13/16	.773 – .812"	13/16"
04240-27/32	.807 – .843"	27/32"
04240-7/8	.836 – .875"	7/8"
04240-29/32	.867 – .906"	29/32"
04240-15/16	.898 – .937"	15/16"
04240-31/32	.929 – .968"	31/32"
04240-1	.961 – 1.00"	1.0"

## TRY TECHNIKS DEAD NUTS ACCURATE DNA COLLETS & NUTS SYSTEM

For shank sizes 1/8" (3mm) or smaller use our DNA (dead nuts accurate) collet for improved results.



## ER50 COLLETS INCH

Part No.	Inch Range	Shank
04250-1/2	.461 – .500"	1/2"
04250-5/8	.586 – .625"	5/8"
04250-3/4	.711 – .750"	3/4"
04250-7/8	.836 – .875"	7/8"
04250-1	.961 – 1.00"	1.0"
04250-1-1/4	1.211 – 1.250"	1-1/4"

# ER COLLETS - METRIC



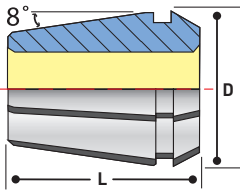
## FEATURES

- Average .0002" T.I.R.
- Clamping range: .039"
- Compatible with DR, RD, ESX, AR, & BR series collets.



## DIMENSIONS

Use this table for selecting your replacement collets. ER collets all have unique length and diameter measurements.



ER Size	L	D
ER8	13mm (.51")	8.5mm (.33")
ER11	18mm (.708")	11.5mm (.45")
ER16	27.5mm (1.08")	17mm (.67")
ER20	31.5mm (1.24")	21mm (.83")
ER25	34mm (1.34")	26mm (1.02")
ER32	40mm (1.57")	33mm (1.3")
ER40	46mm (1.81")	41mm (1.61")
ER50	60 mm (2.36")	52mm (2.05")

## COLLET SETS METRIC

Part No.	Size	Pcs.	Collets Included	Fits Shank Sizes
04200MS	ER8	9	1 - 5mm by 0.5mm	.5 - 5mm
04201MS	ER11	13	1 - 7mm by 0.5mm	.5 - 7mm
04202MS	ER16	10	1 - 10mm by 1mm	.5 - 10mm
04203MS	ER20	12	2 - 13mm by 1mm	1.0 - 13mm
04204MS	ER25	15	2 - 16mm by 1mm	1.0 - 16mm
04205MS	ER32	18	3 - 20mm by 1mm	2 - 20mm
04206MS	ER40	23	4 - 26mm by 1mm	3 - 26mm
04207MS	ER50	17	6 - 34mm by 2 mm	5 - 34mm

## ER8 COLLETS METRIC

Part No.	Inch Range	Shank
04208-01.0	.019 - .039"	0.5 - 1.0
04208-01.5	.039 - .059"	1.0 - 1.5
04208-02.0	.059 - .079"	1.5 - 2.0
04208-02.5	.079 - .098"	2.0 - 2.5
04208-03.0	.098 - .118"	2.5 - 3.0
04208-03.5	.118 - .138"	3.0 - 3.5
04208-04.0	.138 - .157"	3.5 - 4.0
04208-04.5	.157 - .177"	4.0 - 4.5
04208-05.0	.177 - .197"	4.5 - 5.0

## ER16 COLLETS METRIC

Part No.	Inch Range	Shank
04216-01	.019 - .039"	0.5-1.0
04216-01.5	.039 - .059"	1.0-1.5
04216-02	.039 - .079"	1.5-2.0
04216-02.5	.059 - .098"	1.5-2.5
04216-03	.079 - .118"	2.0-3.0
04216-03.5	.098 - .137"	2.5-3.5
04216-04	.118 - .157"	3.0-4.0
04216-04.5	.137 - .177"	3.5-4.5
04216-05	.157 - .197"	4.0-5.0
04216-05.5	.177 - .216"	4.5-5.5
04216-06	.197 - .236"	5.0-6.0
04216-06.5	.216 - .255"	5.5-6.5
04216-07	.236 - .276"	6.0-7.0
04216-07.5	.255 - .295"	6.5-7.5
04216-08	.276 - .315"	7.0-8.0
04216-08.5	.295 - .334"	7.5-8.5
04216-09	.315 - .354"	8.0-9.0
04216-09.5	.334 - .374"	8.5-9.5
04216-10	.354 - .394"	9.0-10.0
04216-10.5	.374 - .413"	9.5-10.5

## ER20 COLLETS METRIC

Part No.	Inch Range	Shank
04220-01	.019 - .039"	0.5-1.0
04220-01.5	.039 - .059"	1.0-1.5
04220-02	.039 - .079"	1.5-2.0
04220-02.5	.059 - .098"	1.5-2.5
04220-03	.079 - .118"	2.0-3.0
04220-03.5	.098 - .137"	2.5-3.5
04220-04	.118 - .157"	3.0-4.0
04220-04.5	.137 - .177"	3.5-4.5
04220-05	.157 - .197"	4.0-5.0
04220-05.5	.177 - .216"	4.5-5.5
04220-06	.197 - .236"	5.0-6.0
04220-06.5	.216 - .255"	5.5-6.5
04220-07	.236 - .276"	6.0-7.0
04220-07.5	.255 - .295"	6.5-7.5
04220-08	.276 - .315"	7.0-8.0
04220-08.5	.295 - .334"	7.5-8.5
04220-09	.315 - .354"	8.0-9.0
04220-09.5	.334 - .374"	8.5-9.5
04220-10	.354 - .394"	9.0-10.0
04220-10.5	.374 - .413"	9.5-10.5
04220-11	.394 - .433"	10.0-11.0
04220-11.5	.413 - .452"	10.5-11.5
04220-12	.433 - .472"	11.0-12.0
04220-12.5	.452 - .492"	11.5-12.5
04220-13	.472 - .512"	12.0-13.0
04220-13.5	.492 - .531"	12.5-13.5
04220-14	.512 - .551"	13.0-14.0

## ER11 COLLETS METRIC

Part No.	Inch Range	Shank
04211-01.0	.019 - .039"	0.5 - 1.0
04211-01.5	.039 - .059"	1.0 - 1.5
04211-02.0	.059 - .079"	1.5 - 2.0
04211-02.5	.079 - .098"	2.0 - 2.5
04211-03.0	.098 - .118"	2.5 - 3.0
04211-03.5	.118 - .138"	3.0 - 3.5
04211-04.0	.138 - .157"	3.5 - 4.0
04211-04.5	.157 - .177"	4.0 - 4.5
04211-05.0	.177 - .197"	4.5 - 5.0
04211-05.5	.197 - .217"	5.0 - 5.5
04211-06.0	.217 - .236"	5.5 - 6.0
04211-06.5	.236 - .256"	6.0 - 6.5
04211-07.0	.256 - .276"	6.5 - 7.0

## ER25 COLLETS METRIC

Part No.	Inch Range	Shank
04225-02	.039 - .079"	1.5-2.0
04225-02.5	.059 - .098"	2.0-2.5
04225-03	.079 - .118"	2.0-3.0
04225-03.5	.098 - .137"	2.5-3.5
04225-04	.118 - .157"	3.0-4.0
04225-05	.157 - .197"	4.0-5.0
04225-06	.197 - .236"	5.0-6.0
04225-07	.236 - .276"	6.0-7.0
04225-08	.276 - .315"	7.0-8.0
04225-09	.315 - .354"	8.0-9.0
04225-10	.354 - .394"	9.0-10.0
04225-11	.394 - .433"	10.0-11.0
04225-12	.433 - .472"	11.0-12.0
04225-13	.472 - .512"	12.0-13.0
04225-14	.512 - .551"	13.0-14.0
04225-15	.551 - .591"	14.0-15.0
04225-16	.591 - .630"	15.0-16.0
04225-17	.630 - .669"	16.0-17.0

## ER32 COLLETS METRIC

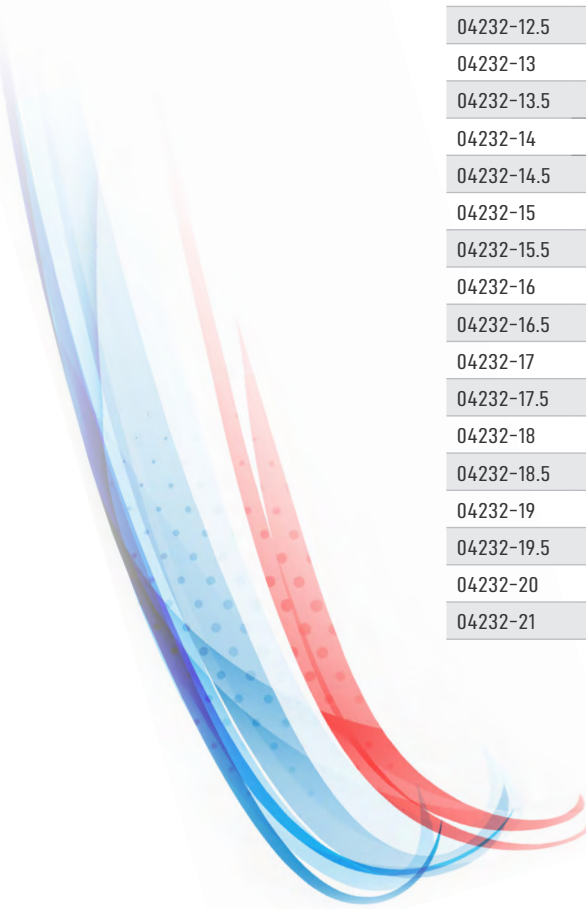
Part No.	Inch Range	Shank
04232-03	.079 - .118"	2.0-3.0
04232-03.5	.098 - .137"	2.5-3.5
04232-04	.118 - .157"	3.0-4.0
04232-04.5	.137 - .177"	3.5-4.5
04232-05	.157 - .197"	4.0-5.0
04232-05.5	.177 - .216"	4.5-5.5
04232-06	.197 - .236"	5.0-6.0
04232-06.5	.216 - .255"	5.5-6.5
04232-07	.236 - .276"	6.0-7.0
04232-07.5	.255 - .295"	6.5-7.5
04232-08	.276 - .315"	7.0-8.0
04232-08.5	.295 - .334"	7.5-8.5
04232-09	.315 - .354"	8.0-9.0
04232-09.5	.334 - .374"	8.5-9.5
04232-10	.354 - .394"	9.0-10.0
04232-10.5	.374 - .413"	9.5-10.5
04232-11	.394 - .433"	10.0-11.0
04232-11.5	.413 - .452"	10.5-11.5
04232-12	.433 - .472"	11.0-12.0
04232-12.5	.452 - .492"	11.5-12.5
04232-13	.472 - .512"	12.0-13.0
04232-13.5	.492 - .531"	12.5-13.5
04232-14	.512 - .551"	13.0-14.0
04232-14.5	.531 - .570"	13.5-14.5
04232-15	.551 - .591"	14.0-15.0
04232-15.5	.570 - .610"	14.5-15.5
04232-16	.591 - .630"	15.0-16.0
04232-16.5	.610 - .649"	15.5-16.5
04232-17	.630 - .669"	16.0-17.0
04232-17.5	.649 - .688"	16.5-17.5
04232-18	.669 - .709"	17.0-18.0
04232-18.5	.688 - .728"	17.5-18.5
04232-19	.709 - .748"	18.0-19.0
04232-19.5	.728 - .767"	18.5-19.5
04232-20	.748 - .787"	19.0-20.0
04232-21	.787 - .827"	20.0-21.0

## ER40 COLLETS METRIC

Part No.	Inch Range	Shank
04240-04	.118 - .157"	3.0-4.0
04240-05	.157 - .197"	4.0-5.0
04240-06	.197 - .236"	5.0-6.0
04240-07	.236 - .276"	6.0-7.0
04240-08	.276 - .315"	7.0-8.0
04240-09	.315 - .354"	8.0-9.0
04240-10	.354 - .394"	9.0-10.0
04240-11	.394 - .433"	10.0-11.0
04240-12	.433 - .472"	11.0-12.0
04240-13	.472 - .512"	12.0-13.0
04240-14	.512 - .551"	13.0-14.0
04240-15	.551 - .591"	14.0-15.0
04240-16	.591 - .630"	15.0-16.0
04240-17	.630 - .669"	16.0-17.0
04240-18	.669 - .709"	17.0-18.0
04240-19	.709 - .748"	18.0-19.0
04240-20	.748 - .787"	19.0-20.0
04240-21	.787 - .827"	20.0-21.0
04240-22	.827 - .866"	21.0-22.0
04240-23	.866 - .906"	22.0-23.0
04240-24	.906 - .945"	23.0-24.0
04240-25	.945 - .984"	24.0-25.0
04240-26	.984 - 1.024"	25.0-26.0

## ER50 COLLETS METRIC

Part No.	Inch Range	Shank
04250-06	.197 - .236"	5.0-6.0
04250-07	.236 - .276"	6.0-7.0
04250-08	.276 - .315"	7.0-8.0
04250-09	.315 - .354"	8.0-9.0
04250-10	.354 - .394"	9.0-10.0
04250-12.0	.394 - .472"	10.0-12.0
04250-14	.472 - .551"	12.0-14.0
04250-16	.551 - .630"	14.0-16.0
04250-18	.630 - .709"	16.0-18.0
04250-20	.709 - .787"	18.0-20.0
04250-22	.787 - .866"	20.0-22.0
04250-24	.866 - .945"	22.0-24.0
04250-26	.945 - 1.024"	24.0-26.0
04250-28	1.024 - 1.102"	26.0-28.0
04250-30	1.102 - 1.181"	28.0-30.0
04250-32	1.181 - 1.259"	30.0-32.0
04250-34.0	1.259 - 1.338"	32.0-34.0



# AA GRADE 5-MICRON ER COLLETS

## AA GRADE 5-MICRON PRECISION COLLETS - INCH



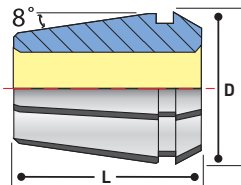
**ER Grade AA  
5 Micron Collet**

### FEATURES

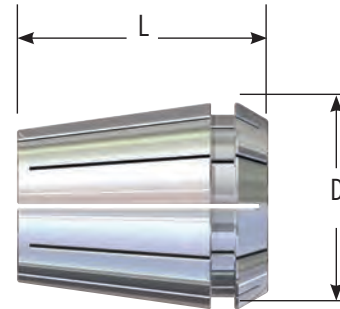
- 5 micron max. T.I.R.
- Fewer slots for increased rigidity
- For use with on-size tooling

### DIMENSIONS

Use this table for selecting your replacement collets. ER collets all have unique length and diameter measurements.



ER Size	L	D
ER8	13mm (.51")	8.5mm (.33")
ER11	18mm (.708")	11.5mm (.45")
ER16	27.5mm (1.08")	17mm (.67")
ER20	31.5mm (1.24")	21mm (.83")
ER25	34mm (1.34")	26mm (1.02")
ER32	40mm (1.57")	33mm (1.3")
ER40	46mm (1.81")	41mm (1.61")
ER50	60 mm (2.36")	52mm (2.05")



### ER11 AA Grade Collets INCH

Part #	Size
5UMER11-0062	1/16"
5UMER11-0093	3/32"
5UMER11-0125	1/8"
5UMER11-0157	5/32"
5UMER11-0187	3/16"
5UMER11-0218	7/32"
5UMER11-0250	1/4"

### ER11 AA Grade Collets Set INCH

Part #	Pcs.	Range
5UMER11-SI007	7	1/16" - 1/4"

### ER16 AA Grade Collets INCH

Part #	Size
5UMER16-0062	1/16"
5UMER16-0093	3/32"
5UMER16-0125	1/8"
5UMER16-0157	5/32"
5UMER16-0187	3/16"
5UMER16-0218	7/32"
5UMER16-0250	1/4"
5UMER16-0281	9/32"
5UMER16-0312	5/16"
5UMER16-0343	11/32"
5UMER16-0375	3/8"
5UMER16-0406	13/32"

### ER16 AA Grade Collets Set INCH

Part #	Pcs.	Range
5UMER16-SI010	10	1/16" - 3/8"

### ER20 AA Grade Collets INCH

Part #	Size
5UMER20-0062	1/16"
5UMER20-0093	3/32"
5UMER20-0125	1/8"
5UMER20-0157	5/32"
5UMER20-0187	3/16"
5UMER20-0218	7/32"
5UMER20-0250	1/4"
5UMER20-0281	9/32"
5UMER20-0312	5/16"
5UMER20-0343	11/32"
5UMER20-0375	3/8"
5UMER20-0406	13/32"
5UMER20-0437	7/16"
5UMER20-0468	15/32"
5UMER20-0500	1/2"

### ER20 AA Grade Collets Set INCH

Part #	Pcs.	Range
5UMER20-SI009	9	1/8" - 1/2"

## AA GRADE 5-MICRON PRECISION COLLETS - INCH

### ER25 AA Grade Collets INCH

Part #	Size
5UMER25-0062	1/16"
5UMER25-0093	3/32"
5UMER25-0125	1/8"
5UMER25-0157	5/32"
5UMER25-0187	3/16"
5UMER25-0218	7/32"
5UMER25-0250	1/4"
5UMER25-0281	9/32"
5UMER25-0312	5/16"
5UMER25-0343	11/32"
5UMER25-0375	3/8"
5UMER25-0406	13/32"
5UMER25-0437	7/16"
5UMER25-0468	15/32"
5UMER25-0500	1/2"
5UMER25-0531	17/32"
5UMER25-0562	9/16"
5UMER25-0593	19/32"
5UMER25-0625	5/8"

### ER25 AA Grade Collets Set INCH

Part #	Pcs.	Range
5UMER25-SI011	11	1/8" - 5/8"

### ER32 AA Grade Collets INCH

Part #	Size
5UMER32-0125	1/8"
5UMER32-0157	5/32"
5UMER32-0187	3/16"
5UMER32-0218	7/32"
5UMER32-0250	1/4"
5UMER32-0281	9/32"
5UMER32-0312	5/16"
5UMER32-0343	11/32"
5UMER32-0375	3/8"
5UMER32-0406	13/32"
5UMER32-0437	7/16"
5UMER32-0468	15/32"
5UMER32-0500	1/2"
5UMER32-0531	17/32"
5UMER32-0562	9/16"
5UMER32-0593	19/32"
5UMER32-0625	5/8"
5UMER32-0656	21/32"
5UMER32-0687	11/16"
5UMER32-0718	23/32"
5UMER32-0750	3/4"

### ER32 AA Grade Collets Set INCH

Part #	Pcs.	Range
5UMER32-SI014	14	1/8" - 3/4"

### ER40 AA Grade Collets INCH

Part #	Size
5UMER40-0125	1/8"
5UMER40-0157	5/32"
5UMER40-0187	3/16"
5UMER40-0218	7/32"
5UMER40-0250	1/4"
5UMER40-0281	9/32"
5UMER40-0312	5/16"
5UMER40-0343	11/32"
5UMER40-0375	3/8"
5UMER40-0406	13/32"
5UMER40-0437	7/16"
5UMER40-0468	15/32"
5UMER40-0500	1/2"
5UMER40-0531	17/32"
5UMER40-0562	9/16"
5UMER40-0593	19/32"
5UMER40-0625	5/8"
5UMER40-0656	21/32"
5UMER40-0687	11/16"
5UMER40-0718	23/32"
5UMER40-0750	3/4"
5UMER40-0781	25/32"
5UMER40-0875	7/8"
5UMER40-1000	1"

### ER40 AA Grade Collets Set INCH

Part #	Pcs.	Range
5UMER40-SI016	16	1/8" - 1"



# AA GRADE 5-MICRON ER COLLETS

## AA GRADE 5-MICRON PRECISION COLLETS - METRIC



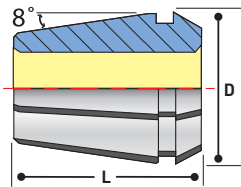
ER Grade AA  
5 Micron Collet

### FEATURES

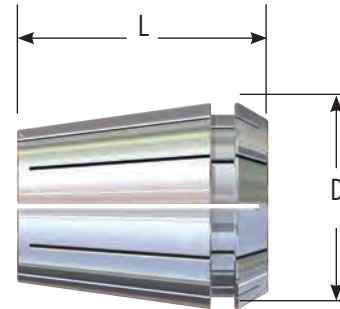
- 5 micron max. T.I.R.
- Fewer slots for increased rigidity
- For use with on-size tooling

### DIMENSIONS

Use this table for selecting your replacement collets. ER collets all have unique length and diameter measurements.



ER Size	L	D
ER8	13mm (.51")	8.5mm (.33")
ER11	18mm (.708")	11.5mm (.45")
ER16	27.5mm (1.08")	17mm (.67")
ER20	31.5mm (1.24")	21mm (.83")
ER25	34mm (1.34")	26mm (1.02")
ER32	40mm (1.57")	33mm (1.3")
ER40	46mm (1.81")	41mm (1.61")
ER50	60 mm (2.36")	52mm (2.05")



### ER11 AA Grade Collets METRIC

Part #	Size
5UMER11-0039	1 mm
5UMER11-0059	1.5 mm
5UMER11-0078	2 mm
5UMER11-0098	2.5 mm
5UMER11-0118	3 mm
5UMER11-0137	3.5 mm
5UMER11-0157	4 mm
5UMER11-0177	4.5 mm
5UMER11-0196	5 mm
5UMER11-0216	5.5 mm
5UMER11-0236	6 mm
5UMER11-0255	6.5 mm
5UMER11-0275	7 mm

### ER11 AA Grade Collets Set METRIC

Part #	Pcs.	Range
5UMER11-SM013	13	1 - 7mm

### ER16 AA Grade Collets METRIC

Part #	Size
5UMER16-0039	1 mm
5UMER16-0078	2 mm
5UMER16-0098	2.5 mm
5UMER16-0118	3 mm
5UMER16-0137	3.5 mm
5UMER16-0157	4 mm
5UMER16-0177	4.5 mm
5UMER16-0196	5 mm
5UMER16-0216	5.5 mm
5UMER16-0236	6 mm
5UMER16-0255	6.5 mm
5UMER16-0275	7 mm
5UMER16-0295	7.5 mm
5UMER16-0315	8 mm
5UMER16-0334	8.5 mm
5UMER16-0354	9 mm
5UMER16-0393	10 mm

### ER16 AA Grade Collets Set METRIC

Part #	Pcs.	Range
5UMER16-SM010	10	1 - 10 mm

### ER20 AA Grade Collets METRIC

Part #	Size
5UMER20-0078	2 mm
5UMER20-0118	3 mm
5UMER20-0157	4 mm
5UMER20-0196	5 mm
5UMER20-0236	6 mm
5UMER20-0275	7 mm
5UMER20-0315	8 mm
5UMER20-0354	9 mm
5UMER20-0393	10 mm
5UMER20-0433	11 mm
5UMER20-0472	12 mm
5UMER20-0511	13 mm

### ER20 AA Grade Collets Set METRIC

Part #	Pcs.	Range
5UMER20-SM012	12	2 - 13 mm

## AA GRADE 5-MICRON PRECISION COLLETS - METRIC

### ER25 AA Grade Collets METRIC

Part #	Size
5UMER25-0078	2 mm
5UMER25-0118	3 mm
5UMER25-0157	4 mm
5UMER25-0196	5 mm
5UMER25-0236	6 mm
5UMER25-0275	7 mm
5UMER25-0315	8 mm
5UMER25-0354	9 mm
5UMER25-0393	10 mm
5UMER25-0433	11 mm
5UMER25-0472	12 mm
5UMER25-0511	13 mm
5UMER25-0551	14 mm
5UMER25-0590	15 mm
5UMER25-0630	16 mm

### ER25 AA Grade Collets METRIC

Part #	Pcs.	Range
5UMER25-SM015	15	2 - 16 mm

### ER32 AA Grade Collets METRIC

Part #	Size
5UMER32-0118	3 mm
5UMER32-0157	4 mm
5UMER32-0196	5 mm
5UMER32-0236	6 mm
5UMER32-0275	7 mm
5UMER32-0315	8 mm
5UMER32-0354	9 mm
5UMER32-0393	10 mm
5UMER32-0433	11 mm
5UMER32-0472	12 mm
5UMER32-0511	13 mm
5UMER32-0551	14 mm
5UMER32-0590	15 mm
5UMER32-0630	16 mm
5UMER32-0669	17 mm
5UMER32-0708	18 mm
5UMER32-0748	19 mm
5UMER32-0787	20 mm

### ER32 AA Grade Collets Set METRIC

Part #	Pcs.	Range
5UMER32-SM018	18	3 - 20 mm

### ER40 AA Grade Collets METRIC

Part #	Size
5UMER40-0157	4 mm
5UMER40-0196	5 mm
5UMER40-0236	6 mm
5UMER40-0275	7 mm
5UMER40-0315	8 mm
5UMER40-0354	9 mm
5UMER40-0393	10 mm
5UMER40-0433	11 mm
5UMER40-0472	12 mm
5UMER40-0511	13 mm
5UMER40-0551	14 mm
5UMER40-0590	15 mm
5UMER40-0630	16 mm
5UMER40-0669	17 mm
5UMER40-0708	18 mm
5UMER40-0748	19 mm
5UMER40-0787	20 mm
5UMER40-0826	21 mm
5UMER40-0866	22 mm
5UMER40-0905	23 mm
5UMER40-0944	24 mm
5UMER40-0984	25 mm
5UMER40-1023	26 mm

### ER40 AA Grade Collets Set METRIC

Part #	Pcs.	Range
5UMER40-SM023	23	4 - 26 mm



# DNA (DEAD NUTS ACCURATE) COLLETS



## FEATURES

- Compatible with ER collet chucks and extensions
- 0.0002" T.I.R. extends tool life
- More rigid and more accurate than ER for small diameter shanks

Use the table for selecting your replacement collets. DNA collets all have unique length and diameter measurements.

### DNA DIMENSIONS

Collet	L	D
DNA 11	.673	.460
DNA 16	.945	.654
DNA 20	1.201	.815
DNA 32	1.571	1.301

## DNA 11 COLLETS & ACCESSORIES

Part No.	Shank Size inch/mm	Collapse Range inch/mm
05952-02	5/64" / 1.5 - 2mm	.059" - .079" / .5mm
05952-03	7/64" / 2.5 - 3mm	.098" - .118" / .5mm
05952-03.5	1/8" / 3 - 3.5mm	.118" - .138" / .5mm
05952-04	5/32" / 3.5 - 4mm	.138" - .157" / .5mm
05952-05	3/16" / 4.5 - 5mm	.177" - .197" / .5mm
05952-06	15/64" / 5.5 - 6mm	.216" - .236" / .5mm
05952-1/8	exact size collet: 1/8"	.105" - .125" / .5mm
05952-3/16	exact size collet: 3/16"	.167" - .187" / .5mm
05952-1/4	exact size collet: 1/4"	.230" - .250" / .5mm
2011.0000	DNA 11 nut M14 x .75"	
04608	DNA 11 collet wrench	
04581	DNA 11 torque wrench adapter	

## DNA 16 COLLETS & ACCESSORIES

Part No.	Shank Size inch/mm	Range inch/mm
05954-0.3	.2 - .3mm	.007" - .011" / .10mm
05954-0.4	1/64" / .3 - .4mm	.011" - .015" / .10mm
05954-0.5	.4 - .5mm	.015" - .019" / .10mm
05954-0.6	.5 - .6mm	.019" - .023" / .10mm
05954-0.8	1/32" / .7 - .8mm	.027" - .031" / .10mm
05954-1.0	.9 - 1.0mm	.035" - .039" / .10mm
05954-1.2	3/64" / 1.1 - 1.2mm	.043" - .047" / .10mm
05954-1.25	1.0 - 1.25mm	.039" - .049" / .25mm
05954-1.5	1.25 - 1.5mm	.049" - .059" / .25mm
05954-1.75	1/16" / 1.5 - 1.75mm	.059" - .068" / .25mm
05954-02	5/64" / 1.75 - 2mm	.068" - .078" / .25mm
05954-2.25	2 - 2.25mm	.078" - .088" / .25mm
05954-2.5	3/32" / 2.25 - 2.5mm	.088" - .098" / .25mm
05954-03	2.5 - 3mm	.098" - .118" / .5mm
05954-3.5	1/8" / 3 - 3.5mm	.118" - .138" / .5mm
05954-04	5/32" / 3.5 - 4mm	.137" - .157" / .5mm
05954-4.5	4 - 4.5mm	.157" - .177" / .5mm
05954-05	3/16" / 4 - 5mm	.157" - .197" / 1.0mm
05954-06	7/32" / 5 - 6mm	.196" - .236" / 1.0mm
05954-07	1/4" / 6 - 7mm	.236" - .275" / 1.0mm
05954-08	5/16" / 7 - 8mm	.275" - .314" / 1.0mm
05954-09	11/32" / 8 - 9mm	.314" - .354" / 1.0mm
05954-10	3/8" / 9 - 10mm	.354" - .392" / 1.0mm
05954-1/8	exact size collet: 1/8"	.105" - .125" / .5mm
05954-3/16	exact size collet: 3/16"	.147" - .187" / 1.0mm
05954-1/4	exact size collet: 1/4"	.210" - .25" / 1.0mm
05954-3/8	exact size collet: 3/8"	.335 - .375" / 1.0mm

### HOW IT WORKS

ER Collet: large counterbore leaves shank unsupported

DNA Collet: twice as much metal holding tool shank!

DNA collets hold small tools with greater rigidity and more accuracy (T.I.R.) for greatly improved tool life.



# DNA (DEAD NUTS ACCURATE) COLLETS

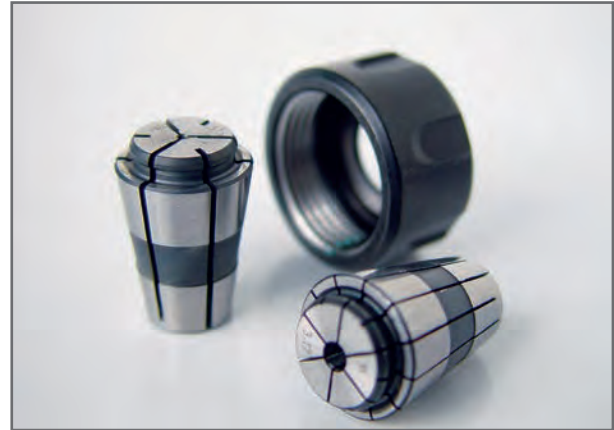


DNA Sealed Nut



DNA 16 Nut

**DNA NUTS FEATURE POWERCOAT FOR 75% MORE HOLDING POWER AND BEST TOOL LIFE.**



## DNA 16 NUTS & ACCESSORIES

Part No.	Description
2016.2000	DNA16 Mini Nut - M19 x 1.0" x O.D. 25mm
27116	M22 x 1.5 nut, , O.D. 27mm
27116-30	3.0 - 2.5mm sealed nut, O.D. 27mm
27116-40	4.0 - 3.5mm sealed nut, O.D. 27mm
27116-45	4.5 - 4.0mm sealed nut, O.D. 27mm
27116-50	5.0 - 4.5mm sealed nut, O.D. 27mm
27116-55	5.5 - 5mm sealed nut, O.D. 27mm
27116-60	6.0 - 5.5mm sealed nut, O.D. 27mm
27116-65	6.5 - 6mm sealed nut, O.D. 27mm
DNA16W	DNA 16 collet wrench
DNA16TWA	DNA 16 torque wrench adapter
894-22	DNA 16 mini nut wrench

## DNA 20 COLLETS & ACCESSORIES

Part No.	Shank Size inch/mm	Range inch/mm
05956-03	2.5 - 3mm	.098" - .118" / .5mm
05956-3.5	1/8" / 3 - 3.5mm	.118" - .138" / .5mm
05956-04	5/32" / 3.5 - 4mm	.137" - .157" / .5mm
05956-05	3/16" / 4 - 5mm	.157" - .197" / 1.0mm
05956-06	7/32" 5 - 6mm	.197" - .236" / 1.0mm
05956-1/8	exact size collet: 1/8"	.105" - .125" / .5mm
05956-3/16	exact size collet: 3/16"	.147" - .187" / 1.0mm
05956-1/4	exact size collet: 1/4"	.210" - .250" / 1.0mm
05956-3/8	exact size collet: 3/8"	.335" - .375" / 1.0mm
2020.0000	DNA 20 nut, M25 x 1.5" O.D. 32mm	
2020.0000C	DNA 20 coolant nut, uses ER20 rings	
DNA20W	DNA 20 collet wrench	
DNA20TWA	DNA 20 torque wrench adapter	

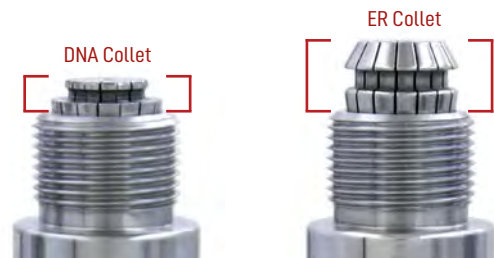
## DNA 32 COLLETS & ACCESSORIES

Part No.	Shank Size inch/mm	Range inch/mm
05958-03	2.5 - 3mm	.098" - .118" / .5mm
05958-3.5	1/8" / 3 - 3.5mm	.118" - .138" / .5mm
05958-04	5/32" / 3.5 - 4mm	.137" - .157" / .5mm
05958-05	3/16" / 4 - 5mm	.157" - .197" / 1.0mm
05958-06	7/32" 5 - 6mm	.197" - .236" / 1.0mm
05958-1/8	exact size collet: 1/8"	.105" - .125" / .5mm
05958-3/16	exact size collet: 3/16"	.147" - .187" / 1.0mm
05958-1/4	exact size collet: 1/4"	.210" - .250" / 1.0mm
05958-3/8	exact size collet: 3/8"	.335" - .375" / 1.0mm
05958-1/2	exact size collet: 1/2"	.460" - .5" / 1.0mm
05958-3/4	exact size collet: 3/4"	.710" - .75" / 1.0mm
05958-13	exact size collet: 13mm	.472" - .512" / 1.0mm
05958-20	exact size collet: 20mm	.748" - .787" / 1.0mm
1132.0000	DNA 32 nut, M40 x 1.5" O.D. 47.5mm	
1132.0000C	DNA 32 coolant nut, uses ER25 rings	
DNA32W	DNA 32 collet wrench	
DNA32TWA	DNA 32 torque wrench adapter	

## DNA COLLETS VS. ER COLLETS

### PROJECTION COMPARISON

DNA collets provide shorter projection from the collet chuck for better rigidity and when clearance is needed.



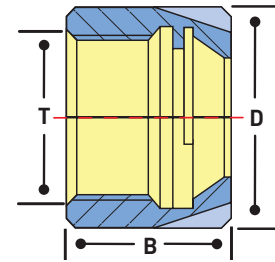
# ER POWERCOAT NUTS



## FEATURES

- Balanced to 70,000 RPM
- Increases holding power by 75%
- Better rigidity and less T.I.R. (runout)

For best performance use a torque wrench and tighten nut to proper torque specification. Snap collet into nut before assembly.



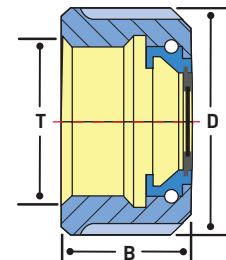
## POWERCOAT ULTRA HIGH-SPEED ER NUTS **BALANCED UP TO 70,000 RPM**

Part No.	Description	D	B	T	Wrench	Torque Specs.
46111	ER11 high speed hex nut	19mm	11.8mm	M14 x 0.75	04608	17 ft/lbs.
46116	ER16 high speed slot nut	27.5mm	18.0mm	M22 x 1.5	04613	42 ft/lbs.
46120	ER20 high speed slot nut	35mm	19.5mm	M25 x 1.5	04614	59 ft/lbs.
46125	ER25 high speed slot nut	42mm	20.5mm	M32 x 1.5	04615	77 ft/lbs.
46132	ER32 high speed slot nut	50mm	23.0mm	M40 x 1.5	04616	100 ft/lbs.
46140	ER40 high speed slot nut	63mm	26.0mm	M50 x 1.5	04617	130 ft/lbs.



## FEATURES

- Increases holding power by 75%
- High speed nuts balanced to 25,000 RPM
- For minimum nose O.D. applications



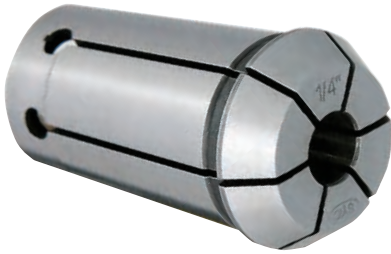
## ER POWERCOAT HIGH SPEED MINI NUTS **BALANCED TO 25,000 RPM AT G2.5**

Part No.	Description	D	B	T	Wrench	Torque Specs
33108	ER8 high speed mini nut	12mm	11mm	M10 x 0.75	04620	10 ft/lbs.
33111	ER11 high speed mini nut	16mm	12mm	M13 x 0.75	04621	12 ft/lbs.
53116	ER16 high speed mini nut	22mm	18mm	M19 x 1.0	04622	20 ft/lbs.
33120	ER20 high speed mini nut	28mm	19.5mm	M24 x 1.0	04623	22 ft/lbs.
33125	ER25 high speed mini nut	35mm	21mm	M30 x 1.0	04624	28 ft/lbs.
33125-L	ER25 high speed left-hand mini nut	35mm	21mm	M30 x 1.0	04624	38 ft/lbs.

## ER POWERCOAT MINI NUTS **BALANCED TO 10,000 RPM AT G2.5**

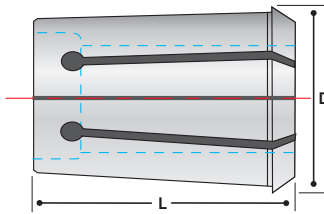
Part No.	Description	D	B	T	Wrench	Torque Specs.
23108	ER8 mini nut	12mm	11mm	M10 x 0.75	04620	10 ft/lbs.
23111	ER11 mini nut	16mm	12mm	M13 x 0.75	04621	12 ft/lbs.
23116	ER16 mini nut	22mm	18mm	M19 x 1.0	04622	20 ft/lbs.
23120	ER20 mini nut	28mm	19.5mm	M24 x 1.0	04623	22 ft/lbs.
23125	ER25 mini nut	35mm	21mm	M30 x 1.0	04624	28 ft/lbs.

# EOC / SYOZ (DIN 6388) PERSKE STYLE



## FEATURES

- T.I.R. (runout) .0004"
- Collapse range: 1/64"
- Made from high-carbon steel



## DIMENSIONS

Part No.	L	D
SYOZ 20	34mm	20mm
SYOZ 25	52mm	35mm
EOC 08	26mm	14.4mm
EOC 16	40mm	25.5mm

These collets and collet nuts conform to DIN 6388 standards. Snap collet into the nut before screwing the nut onto the spindle or holder.

## EOC8

Part No.	Shank Size
83508-0.109	0.109"
83508-1/8	1/8"
83508-3/16	3/16"
83508-1/4	1/4"
83508-17/64	17/64"
83508-3/8	3/8"
83508-5/16	5/16"
83508-03	3mm
83508-04	4mm
83508-08	8mm
83508-L	LH nut
83508-NUT	Nut

## SYOZ20/EOC12

Part No.	Shank Size
83512-1/8	1/8"
83512-3/16	3/16"
83512-1/4	1/4"
83512-5/16	5/16"
83512-3/8	3/8"
83512-7/16	7/16"
83512-1/2	1/2"
83512-10	10mm

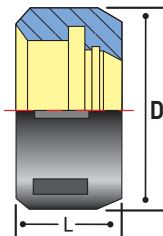
## SYOZ25

Part No.	Shank Size
83868-1/8	1/8"
83868-3/16	3/16"
83868-1/4	1/4"
83868-5/16	5/16"
83868-3/8	3/8"
83868-7/16	7/16"
83868-1/2	1/2"
83868-9/16	9/16"
83868-5/8	5/8"
83868-3/4	3/4"
83868-7/8	7/8"
83868-1	1.0"
83868-10	10mm
83868-16	16mm
83868-20	20mm
83868-25	25mm

SYOZ20 available upon request.

## EOC16

Part No.	Shank Size
83531-1/8	1/8"
83531-3/16	3/16"
83531-1/4	1/4"
83531-3/8	3/8"
83531-5/16	5/16"
83531-7/16	7/16"
83531-1/2	1/2"
83531-9/16	9/16"
83531-5/8	5/8"
83531-02	2mm
83531-03	3mm
83531-04	4mm
83531-05	5mm
83531-06	6mm
83531-07	7mm
83531-08	8mm
83531-09	9mm
83531-10	10mm
83531-11	11mm
83531-12	12mm
83531-13	13mm
83531-14	14mm
83531-15	15mm
83531-16	16mm



## FEATURES

- Balanced to 25,000 RPM
- Increases holding power by 75%
- Better rigidity and less T.I.R. (runout)

## DIN 6388 NUTS AND WRENCHES

Part No.	Description	L	D	Wrench
83508-NUT	EOC08 nut	19	30	-
03636-NUT	EOC16 nut	24	43	03636
83634	SYOZ20/EOC 12 nut	20	35	22220
83634-L	SYOZ20/EOC 12 left-hand nut	20	35	22220
83632	SYOZ25 PowerCOAT nut	30	60	03691



# SHODA COLLETS AND NUTS / HEIAN® COLLETS



Old Style



Piggyback Style



New Style



Super Shoda

## SHODA COLLETS

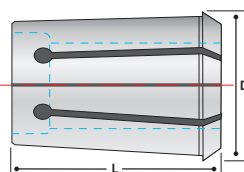
Dimensions are in millimeters unless otherwise indicated.

Part Number	Description	A	d	L
SD-20mm-.250	Shoda 20mm (old style) 1/4" collet	20	.250"	52
SD-20mm-.312	Shoda 20mm (old style) 5/16" collet	20	.312"	52
SD-20mm-.375	Shoda 20mm (old style) 3/8" collet	20	.375"	52
SD-20mm-.500	Shoda 20mm (old style) 1/2" collet	20	.500"	52
SD-20mm-.625	Shoda 20mm (old style) 5/8" collet	20	.625"	52
SD-C001-.125	Shoda Piggyback 1/8" collet	16	.125"	52
SD-C001-.187	Shoda Piggyback 3/16" collet	16	.187"	52
SD-C001-.250	Shoda Piggyback 1/4" collet	16	.250"	52
SD-C001-.312	Shoda Piggyback 5/16" collet	16	.312"	52
SD-C001-.375	Shoda Piggyback 3/8" collet	16	.375"	52
SD-C001-.500	Shoda Piggyback 1/2" collet	16	.500"	52
SD-C015-.125	Shoda 24mm (new style) 1/8" collet	24	.125"	52
SD-C015-.250	Shoda 24mm (new style) 1/4" collet	24	.250"	52
SD-C015-.312	Shoda 24mm (new style) 5/16" collet	24	.312"	52
SD-C015-.375	Shoda 24mm (new style) 3/8" collet	24	.375"	52
SD-C015-.500	Shoda 24mm (new style) 1/2" collet	24	.500"	52
SD-C015-.625	Shoda 24mm (new style) 5/8" collet	24	.625"	52
SD-C015-.750	Shoda 24mm (new style) 3/4" collet	24	.750"	52
SS22-1/4	Super Shoda 1/4" collet	23	1/4"	40
SS22-3/8	Super Shoda 3/8" collet	23	3/8"	40
SS22-10	Super Shoda 10mm collet	23	10	40
SS22-1/2	Super Shoda 1/2" collet	23	1/2"	40

## SHODA COLLET NUTS

Dimensions are in millimeters.

Part Number	Description	A	d	L
SD-C001-Nut	Shoda piggy back collet nut	36	14	30
SD-20mm-Nut	Shoda old style collet nut	41	19	30
SD-C015-Nut	Shoda new style collet nut	46	22	30
SS22-Nut	Super Shoda collet nut	36	12.5	15
SS22-Ext-Nut	Super Shoda extended nut	36	12.5	30



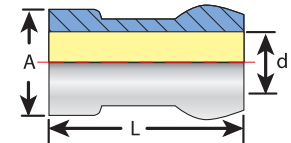
## HEIAN® COLLETS

Part Number	Available Sizes	d	L
HN-24mm	3/16" - 3/4" or 10-20mm	24mm (Back side)	55mm (2.16")
HN-29mm	3/16" - 3/4"	29mm (Back side)	55mm (2.16")
HN-Piggyback	3/8" - 5/8" or 6-12mm	22mm (Back side)	36.5mm (1.43")

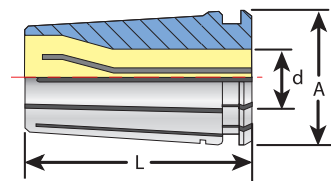
## FEATURES

- Precision ground accuracy
- Heat-treated carbon steel
- Individually inspected

Our Shoda collets are the most accurate in the industry. We use heat-treated high carbon bearing steel and a Swiss grinding technique that ensures accuracy.



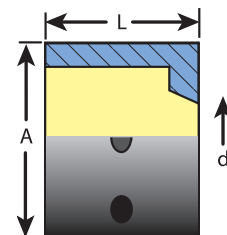
Shoda SD collet

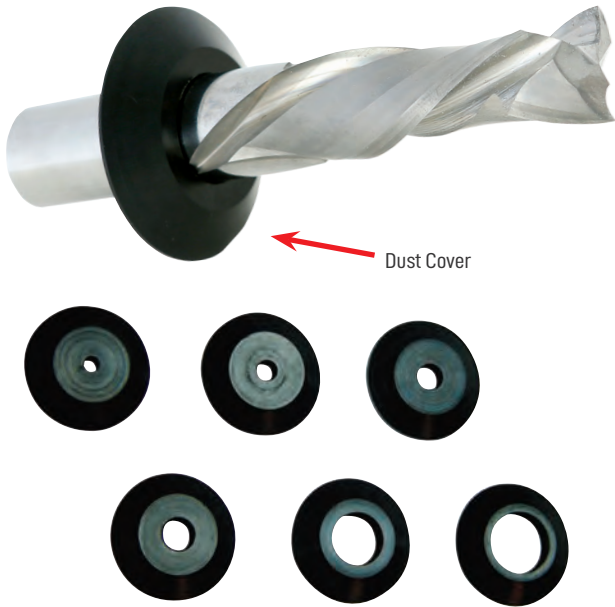


Super Shoda SS collet

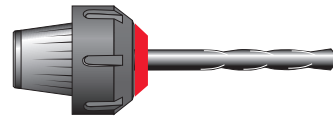


New style nut

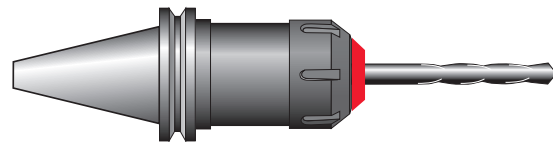




1. Slide dust cover on cutting tool shank from the bottom. Do not slide dust cover over cutting edges.



2. Install cutting tool into collet and nut.



3. Install assembly into toolholder and tighten collet nut to proper torque using a torque wrench.

## FEATURES

- Eliminates cleaning collets!
- Extends the life of your collets
- Extends tool life by maintaining T.I.R.

Simple and effective dust covers prevent costly failures and reduce downtime by keeping unwanted particles from entering the collet pocket where they can clog collets, hampering performance.

Keeping your tool holder clean insures proper balance, maximizes grip on tool shank, and reduces downtime spent cleaning out collets during tool changes.

For 3/16" thru 3/4" tool shanks.  
Works with: TG75, TG100, ER25, ER32, ER40, SYOZ25, SD-C015, SD-20MM  
Do not slide dust cover over cutting edge of tool or you may damage the dust cover.

## EXTERNAL DUST COVERS

Part No.	Description
DC-1/4	Dust cover for 1/4" tool shank
DC-3/8	Dust cover for 3/8" tool shank
DC-1/2	Dust cover for 1/2" tool shank
DC-5/8	Dust cover for 5/8" tool shank
DC-3/4	Dust cover for 3/4" tool shank

## DUST COVER SETS

Part No.	Description
DC-1/4-5	1/4" Dust Covers, 5 pieces
DC-3/8-5	3/8" Dust Covers, 5 pieces
DC-1/2-5	1/2" Dust Covers, 5 pieces
DC-5/8-5	5/8" Dust Covers, 5 pieces
DC-3/4-5	3/4" Dust Covers, 5 pieces
DC-5D	1 each, 1/4", 3/8", 1/2", 5/8", 3/4"

# AIRPRO DUST EVACUATION NUT



balanced to  
24,000 RPM at G2.5

## FEATURES

- Stop losing time & money on clean-up
- AirPRO removes 85% - 100% of dust
- Easy-to-use, just replace your collet nut

AirPRO removes dust “in the cut” so it works great removing dust from nested cuts and slatwall too!

AirPRO works with your existing cutting tools and toolholders.

AirPRO’s turbine action creates a powerful up-draft that evacuates dust into your machine’s collection hood before it has a chance to settle on your working surface.

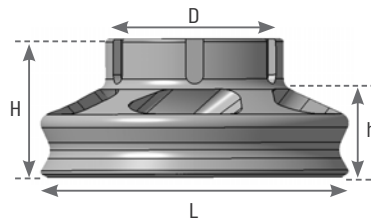
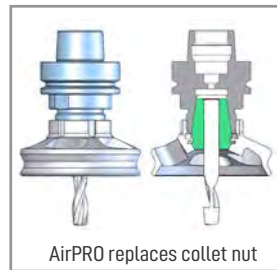
With AirPRO, you’ll spend much less time cleaning up and much more time cutting. The AirPRO typically pays for itself in less than 30 days thanks to the increased production and reduced clean-up time.

Additional benefits include less machine maintenance needed because less dust is landing on electrical and pneumatic systems. Your employees will appreciate the cleaner environment, and the risk of dust combustion is greatly reduced.

Problem: dust settles in cut



Solution: AirPRO



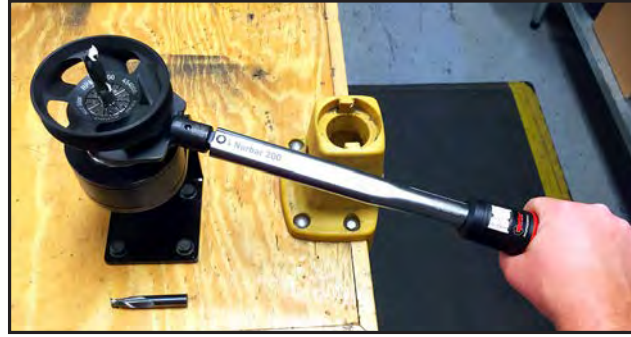
Always tighten the AirPRO to proper torque specification using a torque wrench and tightening stand.

## AIRPRO FOR ER32, ER40 OR SYOZ25 CHUCKS

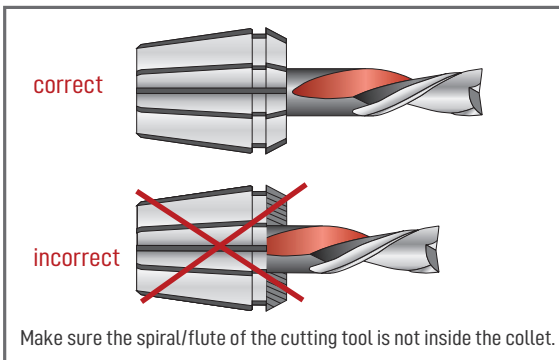
Part No.	Description	Min RPM	Max RPM	D	L	H	h	Weight
453200	ER32 AirPRO	18,000	24,000	1.97"	3.77"	1.77"	1.24"	1.1 lb
454000	ER40 AirPRO	18,000	24,000	2.48"	4.06"	1.81"	1.13"	1.4 lb
452500	SYOZ25 AirPRO	18,000	24,000	2.36"	3.92"	1.97"	1.13"	1.3 lb

## AIRPRO OPERATING PARAMETERS

Part No.	Description	Optimal Gap	Max Chip Load	Wrench	Adapter	Torque
453200	ER32 AirPRO	.070"	.020"	200TH	04604-32	100 lb.ft
454000	ER40 AirPRO	.070"	.020"	200TH	04605-40	130 lb.ft
452500	SYOZ25 AirPRO	.070"	.020"	200TH	03690-25	90 lb.ft



1. Every time you setup an AirPRO inspect the AirPRO, toolholder, collet, and cutting tool for signs of wear or other damage. Do not use worn or damaged tools with the AirPRO.
2. Remove all dust or other contaminants from the AirPRO, ER collet and toolholder, making sure the threads are clean.
3. Snap the collet into the AirPRO.
4. For proper holder power, insert the cutter as far as it will go into the collet, keeping its spiral/flute from entering the collet. (See diagram below)
5. Use the cutter pre-set jig (sold separately) to accurately set the cutter to the correct depth to maintain .070" clearance between AirPRO and material. Clearance from .060" up to .200" is acceptable, but .070" is optimal.
6. Hand tighten the AirPRO, collet, and cutter assembly into your toolholder.
7. Insert the assembly into a tightening stand and tighten to correct specification using a torque wrench. See other side for torque specifications.



## RECOMMENDED CUTTING TOOL DEPTH

For optimal performance setup the AirPRO and cutting tool depth to maintain .070" gap between the face of the AirPRO and the material surface.

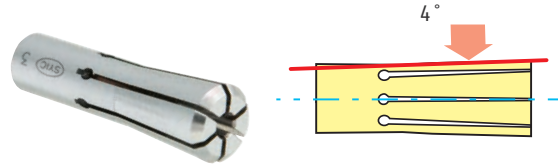
Material Depth	L Min	L Max	H Min	H Max
1/4"	2 1/2"	2 1/2"	1/2"	1"
3/8"	2 1/2"	2 1/2"	1/2"	1 1/8"
12mm	2 1/2"	3"	5/8"	1 1/4"
1/2"	2 1/2"	3"	5/8"	1 1/4"
5/8" - 16mm	3"	3"	3/4"	1 3/8"
18mm	3"	3"	7/8"	1 1/2"
3/4" - 19mm	3"	3"	1"	1 5/8"
20mm	3"	3"	1"	1 5/8"
1" - 25mm	3"	3 1/2"	1 1/8"	1 3/4"
1 1/8"	3 1/2"	3 1/2"	1 1/4"	1 7/8"
1 1/4" - 32 mm	3-1/2"	3 1/2"	1 3/8"	2"

# SLIMFIT COLLET CHUCKS



## FEATURES

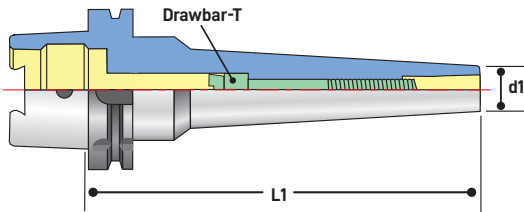
- .550" nose diameters
- Balanced to a minimum of 25,000 RPM at G2.5
- "On-Size" collets



Techniks Certified for accuracy and balance. Each holder comes with a complete lab report.

SlimFIT SBL6 holders feature 4° collets and a powerful drawbar tightening system that holds small diameter tools tighter and more accurately than ER systems. For tool shanks 3/32" up to 1/4" (3mm-6mm).

Tool changes do not require tightening fixtures or torque wrenches and can be performed using the supplied T-wrench.



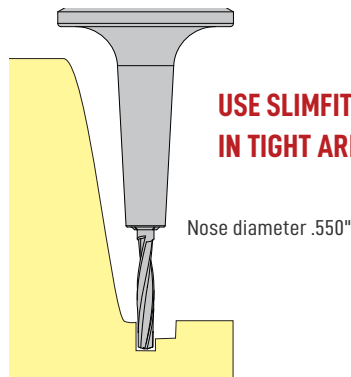
## HSK63F SLIMFIT COLLET CHUCKS

Part No.	Description	L1	d1
35470-4-F	HSK63F x SBL 6 - 4"	4"	0.55"
35470-5-F	HSK63F x SBL 6 - 5"	5"	0.55"
35470-6-F	HSK63F x SBL 6 - 6"	6"	0.55"
35470-F	HSK63F x SBL 6 - 80mm	80mm	0.55"
35472-F	HSK63F x SBL 6 - 120mm	120mm	0.55"

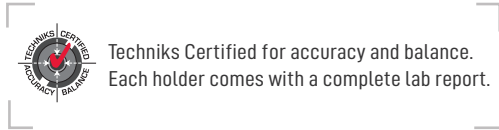
\*Each SlimFIT Collet Chucks ships with the appropriate hex wrench

## SLIMFIT ACCESSORIES

Part No.	Description
92004	HSK63A Coolant Pipe
93.11.026.004	Coolant Pipe Wrench
T2050TK1A81F	100mm T-Handle
T20L3TKIA81F	200mm slim shaft fits coolant retention knobs

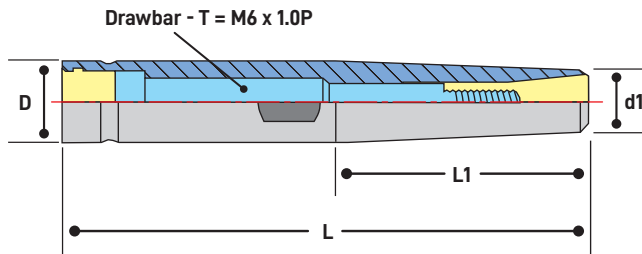






## FEATURES

- Only .480" nose diameter
- Use with any 1/2" or 5/8" toolholder, including end mill holders.
- 4° angle drawbar collet for greater holding power and accuracy



## SLIMFIT EXTENSIONS

Part No.	Description	D	L	L1	d1
06032-3	1/2" x SBL 6 - 3"	1/2"	3"	1.89"	0.48"
06032	1/2" x SBL 6 - 5"	1/2"	5"	1.89"	0.48"
06034	1/2" x SBL 6 - 6"	1/2"	6"	1.89"	0.48"
06038	5/8" x SBL 6 - 5"	5/8"	5"	1.89"	0.48"
06040	5/8" x SBL 6 - 6"	5/8"	6"	1.89"	0.48"
06042	5/8" x SBL 6 - 8"	5/8"	8"	1.89"	0.48"

Note: Extensions Fit 1/2" or 5/8" Toolholders

## EXTENSIONS CONVERT ANY 1/2" OR 5/8" TOOLHOLDER INTO A SLIMFIT TOOL!



Extensions feature a nose clearance of .480", providing access to areas unreachable by standard length tool holders.

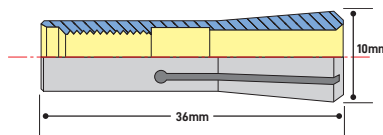
**YOU LOSE 10% OF TOOL LIFE FOR EVERY .0001" OF T.I.R.  
SLIMFIT CHUCKS OFFER EXCELLENT ACCURACY AT EXTENDED LENGTHS.**

# SLIMFIT COLLETS

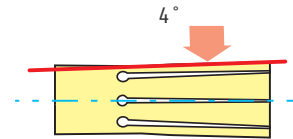


## FEATURES

- "On-Size" collets
- Precision ground and polished
- Each collet individually inspected for quality



NOTE: TIGHTEN TO 9 FT/LBS



## SLIMFIT COLLET SET

Part No.	Description
18851-12IMS	SlimFIT 12 piece set

Convenient collet set provides the collets you need and the wooden tray prevents damage to collets.

### Set includes 12 collets:

INCH: 7/64", 1/8", 9/64", 11/64"

3/16", 13/64", 15/64", 1/4"

METRIC: 3mm, 4mm, 5mm, 6mm

## SLIMFIT COLLETS INCH

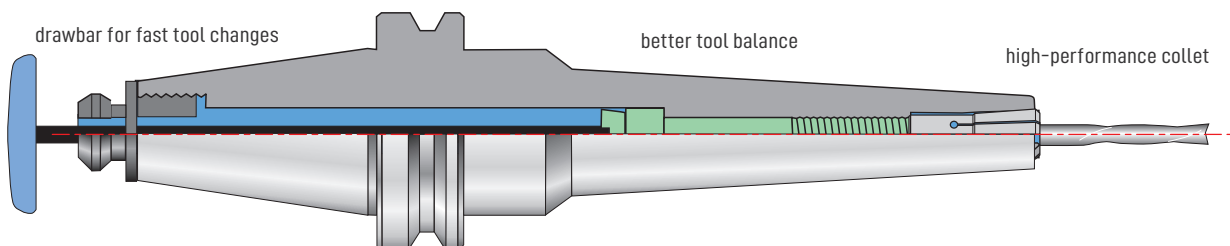
Part No.	Description
18851-3/32	SlimFIT 6 - 3/32" collet
18851-7/64	SlimFIT 6 - 7/64" collet
18851-1/8	SlimFIT 6 - 1/8" collet
18851-9/64	SlimFIT 6 - 9/64" collet
18851-5/32	SlimFIT 6 - 5/32" collet
18851-11/64	SlimFIT 6 - 11/64" collet
18851-3/16	SlimFIT 6 - 3/16" collet
18851-13/64	SlimFIT 6 - 13/64" collet
18851-7/32	SlimFIT 6 - 7/32" collet
18851-15/64	SlimFIT 6 - 15/64" collet
18851-1/4	SlimFIT 6 - 1/4" collet

## SLIMFIT COLLETS METRIC

Part No.	Description
18851-03	SlimFIT 6 - 3mm collet
18851-04	SlimFIT 6 - 4mm collet
18851-05	SlimFIT 6 - 5mm collet
18851-05.5	SlimFIT 6 - 5.5mm collet
18851-06	SlimFIT 6 - 6mm collet

## WHY SLIMFIT OUT-PERFORMS ER COLLET SYSTEMS

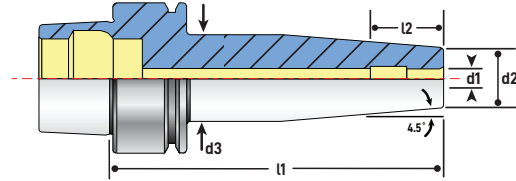
SlimFIT collets are longer overall than ER collets and feature a 4° taper, delivering better engagement between collet and tool shank, resulting in better accuracy and balance than ER systems.





## FEATURES

- Maximum T.I.R. only 0.0001"
- Balanced 25,000 RPM at G2.5
- Stop screw included



## HSK63F SHRINKFIT HOLDERS

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
71250	HSK63F x 1/4" I.D. - 3.15"	1/4"	.83"	1.06"	3.15"	1.42"	16080C-20
71312	HSK63F x 5/16" I.D. - 3.74"	5/16"	.79"	1.06"	3.74"	1.42"	16081C-20
71375	HSK63F x 3/8" I.D. - 3.74"	3/8"	.94"	1.26"	3.74"	1.65"	16082C-20
71500	HSK63F x 1/2" I.D. - 3.74"	1/2"	.94"	1.26"	3.74"	1.85"	16083C-20
71625	HSK63F x 5/8" I.D. - 3.74"	5/8"	1.06"	1.34"	3.74"	1.97"	16085C-20
71750	HSK63F x 3/4" I.D. - 3.94"	3/4"	1.42"	1.65"	3.94"	2.05"	16089C-20
71100	HSK63F x 1" I.D. - 4.53"	1"	1.42"	1.65"	4.53"	2.28"	16091C-20
71010	HSK63F x 20mm I.D. - 100mm	20mm	33mm	42mm	100mm	47mm	16089C-20
71011	HSK63F x 25mm I.D. - 115mm	25mm	44mm	53mm	115mm	58mm	16091C-20



## SHORT HSK63F SHRINKFIT HOLDERS

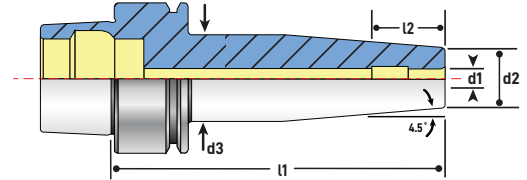
Part No.	Description	d1	d2	d3	l1	l2
SER-HSK.F.63.76.CL1/4	HSK63F x 1/4" I.D. - 76mm	1/4"	21.5mm	29mm	76mm	35mm
SER-HSK.F.63.76.CL3/8	HSK63F x 3/8" I.D. - 76mm	3/8"	24.5mm	32mm	76mm	41mm
SER-HSK.F.63.76.CL1/2	HSK63F x 1/2" I.D. - 82mm	1/2"	24.5mm	32mm	76mm	45mm
SER-HSK.F.63.76.CL3/4	HSK63F x 3/4" I.D. - 76mm	3/4"	34mm	40mm	76mm	49mm
SER-HSK.F.63.76.CL10	HSK63F x 10mm I.D. - 76mm	10mm	24.5	31mm	76mm	41mm

# SHRINKFIT HOLDERS



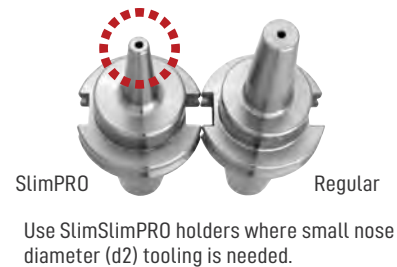
## FEATURES

- Maximum T.I.R. only 0.0001"
- Balanced 25,000 RPM at G2.5
- Stop screw included



## HSK40E SHRINKFIT HOLDERS

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
39001-E	HSK40E x 1/8" I.D. - 3.54"	1/8"	.36"	.47"	3.54"	.79"	-
39002-E	HSK40E x 3/16" I.D. - 3.54"	3/16"	.63"	.71"	3.54"	.79"	-
39004-E	HSK40E x 1/4" I.D. - 3.54"	1/4"	.71"	1.06"	3.54"	1.42"	16080C-20
39006-E	HSK40E x 5/16" I.D. - 3.54"	5/16"	.83"	1.06"	3.54"	1.42"	16081C-20
39008-E	HSK40E x 3/8" I.D. - 3.54"	3/8"	.94"	1.26"	3.54"	1.65"	16082C-20
39082-E	HSK40E x 3mm I.D. - 80mm	3mm	9mm	18mm	80mm	18mm	-
39084-E	HSK40E x 4mm I.D. - 80mm	4mm	10mm	22mm	80mm	20mm	-
39088-E	HSK40E x 6mm I.D. - 80mm	6mm	21mm	27mm	80mm	36mm	16080C-20
39090-E	HSK40E x 8mm I.D. - 80mm	8mm	21mm	27mm	80mm	36mm	16081C-20
39092-E	HSK40E x 10mm I.D. - 80mm	10mm	24mm	32mm	85mm	42mm	16082C-20



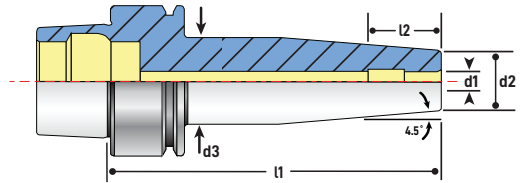
## HSK40E SHRINKFIT HOLDERS **SLIMPRO**

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
99528	HSK40E x 1/8" I.D. - 2.36" SlimPRO	1/8"	.36"	.63"	2.36"	.78"	16081C-20
99538	HSK40E x 3/16" I.D. - 2.36" SlimPRO	3/16"	.43"	.69"	2.36"	.78"	16081C-20
99548	HSK40E x 1/4" I.D. - 2.36" SlimPRO	1/4"	.47"	.81"	2.36"	1.42"	16080C-20
99568	HSK40E x 3/8" I.D. - 2.36" SlimPRO	3/8"	.63"	.94"	2.36"	1.65"	16082C-20
99588	HSK40E x 1/2" I.D. - 2.36" SlimPRO	1/2"	.71"	1.06"	2.36"	1.85"	16083C-20



## FEATURES

- Maximum T.I.R. only 0.0001"
- Balanced 25,000 RPM at G2.5
- Stop screw included



## HSK50E SHRINKFIT HOLDERS

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
39014-E	HSK50E x 1/8" I.D. - 3.15"	1/8"	.36"	.87"	3.15"	.79"	16081C-20
39016-E	HSK50E x 3/16" I.D. - 3.54"	3/16"	.43"	.87"	3.54"	.79"	16081C-20
39018-E	HSK50E x 1/4" I.D. - 3.54"	1/4"	.71"	1.06"	3.54"	1.42"	16080C-20
39020-E	HSK50E x 5/16" I.D. - 3.54"	5/16"	.83"	1.06"	3.54"	1.42"	16081C-20
39022-E	HSK50E x 3/8" I.D. - 3.54"	3/8"	.94"	1.26"	3.54"	1.65"	16082C-20
39024-E	HSK50E x 1/2" I.D. - 3.54"	1/2"	1.10"	1.34"	3.54"	1.85"	16083C-20
39025-E	HSK50E x 5/8" I.D. - 3.54"	5/8"	1.06"	1.34"	3.54"	.97"	16085C-20

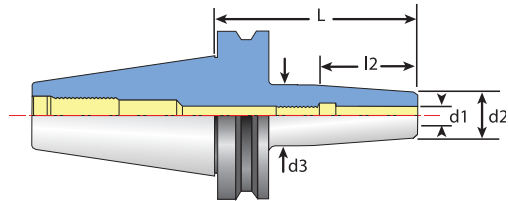


# SHRINKFIT HOLDERS



## FEATURES

- Maximum T.I.R. only 0.0001"
- Balanced 25,000 RPM at G2.5
- Stop screw included



## BT30 SHRINKFIT HOLDERS

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
67250	BT30 x 1/4" I.D. - 3"	1/4"	0.82"	1.06"	3"	1.42"	16082C-20
67375	BT30 x 3/8" I.D. - 3"	3/8"	0.94"	1.25"	3"	1.42"	16082C-20
67500	BT30 x 1/2" I.D. - 3"	1/2"	0.94"	1.25"	3"	1.85"	16083C-20
67625	BT30 x 5/8" I.D. - 3"	5/8"	1.06"	1.33"	3"	1.97"	16085C-20
67750	BT30 x 3/4" I.D. - 3"	3/4"	1.29"	1.62"	3"	2.04"	16089C-20

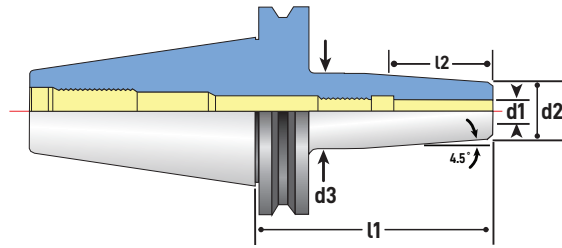
## BT40 SHRINKFIT HOLDERS INCH

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
39110	BT40 x 3/16" I.D. - 3.54	3/16"	.43"	.75"	6"	.79"	16081C-20
39111	BT40 x 1/4" I.D. - 3.54	1/4"	.82"	1.06"	6"	1.42"	16080C-20
39113	BT40 x 3/8" I.D. - 3.54	3/8"	.94"	1.25"	6"	1.65"	16082C-20
39114	BT40 x 1/2" I.D. - 3.54	1/2"	1.10"	1.34"	6"	1.85"	16083C-20
19029	BT40 x 5/8" I.D. - 3.54	5/8"	1.06"	1.34"	6"	1.96"	16089C-20
39115	BT40 x 3/4" I.D. - 3.54	3/4"	1.29"	1.65"	6"	2.04"	16085C-20
39117	BT40 x 1.0" I.D. - 3.54	1.0"	1.73"	2.08"	6"	2.28"	16089C-20
39119-4.13	BT40 x 1-1/4" I.D. - 4.13	1-1/4"	1.81"	2.08"	6"	2.28"	16091C-20

## BT40 SHRINKFIT HOLDERS METRIC

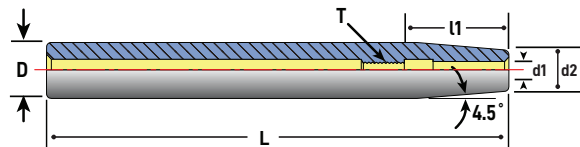
Part No.	Description	d1	d2	d3	l1	l2	Stop Screw
19136-135	BT40 x 6mm I.D. - 135mm	6mm	12mm	26mm	135mm	36mm	16080C-20
19138	BT40 x 8mm I.D. - 90mm	8mm	21mm	26mm	90mm	36mm	16081C-20
19138-135	BT40 x 8mm I.D. - 135mm	8mm	14mm	36mm	135mm	36mm	16081C-20
19140	BT40 x 10mm I.D. - 90mm	10mm	24mm	29mm	90mm	36mm	16082C-20
19140-135	BT40 x 10mm - I.D. 135mm	10mm	16mm	36mm	135mm	42mm	16082C-20
19142	BT40 x 12mm - I.D. 90mm	12mm	24mm	29mm	90mm	47mm	16083C-20
19142-135	BT40 x 12mm - I.D. 135mm	12mm	15mm	29mm	135mm	47mm	16083C-20

# SHRINKFIT HOLDERS AND EXTENSIONS



## ISO30 SHRINKFIT HOLDERS

Part No.	Description	d1	d2	d3	l1	l2	Stop Screw (Opt.)
64250	ISO30 x 1/4" I.D. - 80mm	1/4"	21mm	27mm	80mm	39mm	16082C-20
64375	ISO30 x 3/8" I.D. - 80mm	3/8"	24mm	32mm	80mm	42mm	16082C-20
64500	ISO30 x 1/2" I.D. - 80mm	1/2"	28mm	32mm	80mm	47mm	16083C-20
64625	ISO30 x 5/8" I.D. - 80mm	5/8"	28mm	32mm	80mm	50mm	16085C-20
64750	ISO30 x 3/4" I.D. - 80mm	3/4"	33mm	42mm	80mm	52mm	16089C-20
64110	ISO30 x 1" I.D. - 4"	1"	46mm	53mm	4"	58mm	16091C-20



## SHRINKFIT EXTENSIONS

Part No.	Description	D	d1	d2	L	l1	T
86062	5/8" O.D., x 1/8" I.D. - 6.3"	5/8"	1/8"	.394"	6.3"	.79"	-
86064	5/8" O.D., x 3/16" I.D. - 6.3"	5/8"	3/16"	.394"	6.3"	.79"	-
86066	5/8" O.D., x 1/4" I.D. - 6.3"	5/8"	1/4"	.394"	6.3"	.79"	M6x1.0
86076	3/4" O.D., x 1/4" I.D. - 6.3"	3/4"	1/4"	.551"	6.3"	1.42"	M6x1.0
86080	3/4" O.D., x 3/8" I.D. - 6.3"	3/4"	3/8"	.551"	6.3"	1.65"	M8x1.25
86090	1" O.D. x 3/8" I.D. - 6.3"	1"	3/8"	.79"	6.3"	1.65"	M8x1.25
86092	1" O.D. x 1/2" I.D. - 6.3"	1"	1/2"	.79"	6.3"	1.85"	M10x1.5
86094	1" O.D. x 5/8" I.D. - 6.3"	1"	5/8"	.87"	6.3"	1.97"	M12x1.75

# SHRINKSTATION SHRINKFIT MACHINES



NEMA L6-15P plug comes installed on the power cord.  
Requires a NEMA L6-15R receptacle.

## 00400 SHRINKSTATION

### FEATURES

- Induction coil technology enables tool changes in 15-20 seconds
- Easy to use touch screen design
- Automatically aligns tool holder with the induction head
- Heating time is automatically set by tool diameter
- Cooling cycle uses shop air
- Tool lengths up to 22"

Part No.	Tool Diameters	Power	L x D x H	Ship Wt.
00400	1/8" - 1-1/4"	220V, 15A, 1 phase	16"x 16"x 22"	70 lbs



NEMA L16-20P plug comes installed on the power cord.  
Requires a NEMA L16-20R receptacle.

## 00450 SHRINKSTATION

**MORE POWER COMPACT SHRINKSTATION**

### FEATURES

- Induction coil technology enables tool changes in 6-8 seconds
- Easy to use touch screen design
- Automatically aligns tool holder with the induction head
- Heating time is automatically set by tool diameter
- Cooling cycle uses shop air
- Tool lengths up to 22"

Part No.	Tool Diameters	Power	L x D x H	Ship Wt.
00450	1/8" - 1-1/4"	440V - 480V, 20A, 3 phase	16"x 16"x 22"	70 lbs

### EACH SHRINKSTATION INCLUDES:

Part No.	Description
00600-00165	Induction Ring (3 - 5mm shanks)
00600-00166	Induction Ring (6 - 12mm shanks)
00600-00167	Induction Ring (14 - 20mm shanks)
00600-00168	Induction Ring (25 - 32mm shanks)
385-11878-2	Tool Holder Adapter - 40 taper & C6
385-11878-1	Tool Holder Adapter - 50 taper
385-11878-7	Tool Holder Adapter - HSK63
26139-L	Thermal Insulated Glove

### ADDITIONAL OPTIONS AVAILABLE:

Part No.	Description
385-11878-9	Tool Holder Adapter - 30 taper
385-11878-6	Tool Holders Adapter - HSK40 & C4
385-11878-8	Tool Holder Adapter - HSK50 & C5
00400/00450-EP	Extension Pedestal for long tool holders



# SHRINKPRO & QUENCHER MACHINES



## 00600 SHRINKPRO

### FEATURES

- Induction coil technology enables tool changes in 3-6 seconds
- Easy to use touch screen design
- Heating time is automatically set by tool diameter
- Cooling cycle uses shop air

### EASY-TO-USE TOUCHSCREEN



Select your shank size and ShrinkPRO sets heating duration

### PRODUCT SPECS

Part No.	Tool Diameters	Power	L x D x H	Ship Wt.
00600	1/8" - 1-1/4"	480V, 20A, 3 phase	20" x 20" x 37"	84 lbs



## 00500 SHRINKPRO QUENCHER

### FEATURES

- Induction coil technology enables tool changes in 3-6 seconds
- Easy to use touch screen design
- Heating time is automatically set by tool diameter
- Coolant bath and air-drying system cools tools in under 30 seconds

Quencher features a liquid cooling cycle that is **250% FASTER** than air-cooled units.

### PRODUCT SPECS

Part No.	Tool Diameters	Power	L x D x H	Ship Wt.
00500	1/8" - 1-1/4"	480V, 20A, 3 phase	37" x 24" x 71"	660 lbs

#### EACH SHRINKPRO AND QUENCHER SHIPS WITH:

Part No.	Description
00600-00165	Induction Ring (3 - 5mm shanks)
00600-00166	Induction Ring (6 - 12mm shanks)
00600-00167	Induction Ring (14 - 20mm shanks)
00600-00168	Induction Ring (25 - 32mm shanks)
00600-9006	Tool Holder Adapter – HSK63/HSK100
00600-9002	Tool Holder Adapter – 40 taper
00600-9003	Tool Holder Adapter – HSK40
00600-9004	Tool Holder Adapter – HSK50
00600-9005	Tool Holder Adapter – 30 taper
00600-9006	Tool Holder Adapter – PSC6
26139-L	Thermal Insulated Glove

#### EACH QUENCHER SHIPS WITH:

Part No.	Description
00500-C	1 Gallon Quencher Coolant

#### "NEVER DOWN" GUARANTEE

We stand behind our products 100% and expect them to out-perform the competition. Purchase any Techniks ShrinFIT machine with confidence knowing that we can provide a backup if yours should ever need servicing!

Replacement machine is on loan until original is repaired and back in service. Replacement machines are limited to standard configuration. Power requirements may vary from original machine. Replacements are subject to availability. Extended Warranties are also available.

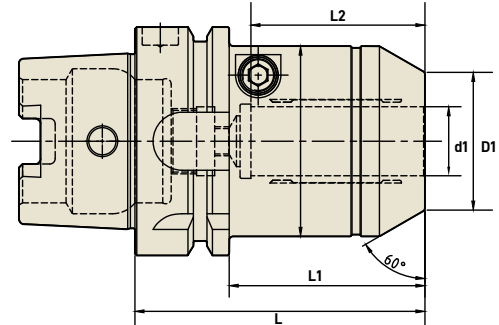


# TRITON HYDRAULIC HOLDERS



## FEATURES

- 3.5X clamping force of standard hydraulic chucks
- 74% thicker bore walls improve rigidity in heavy material removal applications
- Excellent vibration dampening properties enhances surface finish and extends tool life



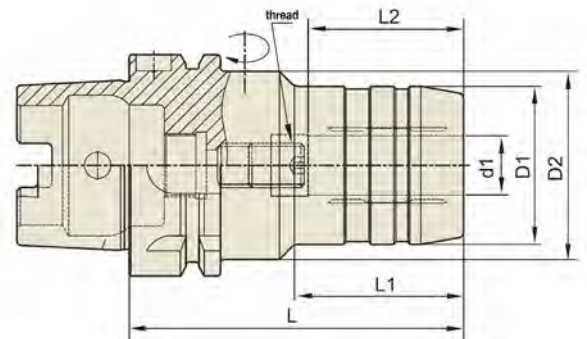
## HSK63F HYDRAULIC CHUCKS **TRITON**

Part No.	Description	d1	D1	L	L1	L2
260750	HSK63F x 3/4" - 3.15" Triton Chuck	3/4"	2.07"	3.15"	1.89"	2.00"



## FEATURES

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to bore



Hydraulic Chucks provide powerful, vibration-free cutting in all materials. Hydros are a good choice when you need T.I.R. of 0.0001" and high holding power. Use cutting tools with a H6 shank tolerance.

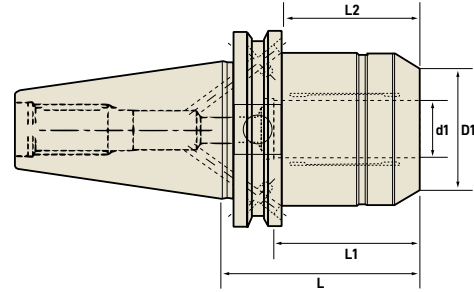
## HSK63F HYDRAULIC TOOLHOLDERS **SLIM**

Part No.	Description	d1	D1	D2	L	L1	L2	Thread
160750	HSK63F-HC19.05-85	19mm (.75")	42mm	50mm	85mm	43mm	42mm	M16x1.0
160100	HSK63F-HC25.4-120	25mm (1.0")	57mm	63mm	120mm	59mm	40mm	M16x1.0



## FEATURES

- 3.5X clamping force of standard hydraulic chucks
- 74% thicker bore walls improve rigidity in heavy material removal applications
- Excellent vibration dampening properties enhances surface finish and extends tool life



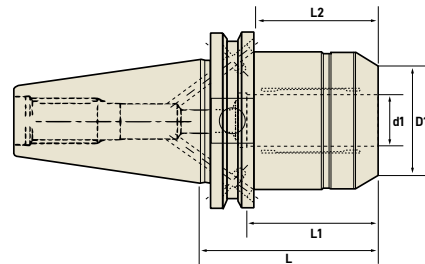
## BT30 HYDRAULIC CHUCKS **TRITON**

Part No.	Description	d1	D1	L	L1	L2	Thread
253750	BT30 x 3/4" - 3.54" Triton Chuck	3/4"	1.65"	3.54"	2.68"	1.89"	M8x1.0
253020	BT30 x 20mm - 90mm Triton Chuck	20mm	42mm	90mm	68mm	48mm	M8x1.0



## FEATURES

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to bore
- Taper precision ground to AT3 standard



Hydraulic Chucks provide powerful, vibration-free cutting in all materials. Hydros are a good choice when you need T.I.R. of 0.0001" and high holding power. Use cutting tools with a H6 shank tolerance.

## BT30 HYDRAULIC HOLDERS **SLIM**

Part No.	Description	d1	D1	D2	L	L1	L2	Thread
153250	BT30 AD/B x HC 1/4"S - 2.75"	1/4"	1.024"	1.772"	2.756"	1.142"	1.063"	M5x0.8
153312	BT30 AD/B x HC 5/16"S - 2.75"	5/16"	1.102"	1.772"	2.756"	1.181"	1.063"	M6x1.0
153375	BT30 AD/B x HC 3/8"S - 2.95"	3/8"	1.181"	1.772"	2.953"	1.220"	1.260"	M8x1.0
153500	BT30 AD/B x HC 1/2"S - 3.35"	1/2"	1.260"	1.772"	3.346"	1.575"	1.457"	M10x1.0
153675	BT30 AD/B x HC 5/8"S - 3.54"	5/8"	1.496"	1.772"	3.543"	1.811"	1.654"	M6x1.0
153750	BT30 AD/B x HC 3/4"S - 3.54"	3/4"	1.654"	1.772"	3.543"	1.890"	1.654"	M6x1.0



# H-LOCKED REDUCTION SLEEVES WITH TTG-594™

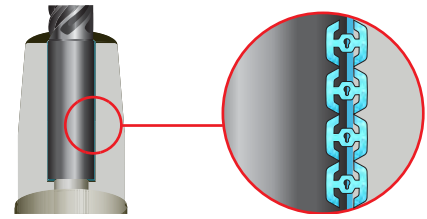


## FEATURES

- I.D. sizes of 1/2" or 12mm and above are **H-LOCKED** with our patented TTG-594 compound to create the world's strongest gripping force of any hydraulic chuck
- Maximum 0.0001" T.I.R.
- Sealed for coolant-through applications

## **H-LOCKED WITH TTG-594™**

Unleash the full power of your CNC machine and cutting tool with the strongest gripping connection.



Our proprietary TTG-594 compound is embedded in the I.D. bore of the sleeve, creating millions of microscopic teeth adding bite to the cutting tool/tool holder connection.

### 1/2" O.D. Reduction Sleeves

Part No.	Description, O.D. - I.D.
620108	1/2" - 1/8" Reduction Sleeve
620104	1/2" - 1/4" Reduction Sleeve
620316	1/2" - 3/16" Reduction Sleeve
620516	1/2" - 5/16" Reduction Sleeve

### 20mm O.D. Reduction Sleeves

Part No.	Description, O.D. - I.D.
820030	20mm - 3mm Reduction Sleeve
820040	20mm - 4mm Reduction Sleeve
820050	20mm - 5mm Reduction Sleeve
820060	20mm - 6mm Reduction Sleeve
820080	20mm - 8mm Reduction Sleeve
820100	20mm - 10mm Reduction Sleeve
820120	20mm - 12mm Reduction Sleeve
820140	20mm - 14mm Reduction Sleeve
820160	20mm - 16mm Reduction Sleeve
520108	20mm - 1/8" Reduction Sleeve
520316	20mm - 3/16" Reduction Sleeve
520104	20mm - 1/4" Reduction Sleeve
520516	20mm - 5/16" Reduction Sleeve
520308	20mm - 3/8" Reduction Sleeve
520102	20mm - 1/2" Reduction Sleeve
520508	20mm - 5/8" Reduction Sleeve

\*Blue shade = **H-LOCKED**

### 1-1/4" O.D. Reduction Sleeves

Part No.	Description, O.D. - I.D.
632108	1-1/4" - 1/8" Reduction Sleeve
632316	1-1/4" - 3/16" Reduction Sleeve
632104	1-1/4" - 1/4" Reduction Sleeve
632516	1-1/4" - 5/16" Reduction Sleeve
632308	1-1/4" - 3/8" Reduction Sleeve
632102	1-1/4" - 1/2" Reduction Sleeve
632508	1-1/4" - 5/8" Reduction Sleeve
632304	1-1/4" - 3/4" Reduction Sleeve
632100	1-1/4" - 1" Reduction Sleeve
632787	1-1/4" - 20mm Reduction Sleeve
632984	1-1/4" - 25mm Reduction Sleeve

\*Blue shade = **H-LOCKED**

### 32mm O.D. Reduction Sleeves

Part No.	Description, O.D. - I.D.
832060	32mm - 6mm Reduction Sleeve
832080	32mm - 8mm Reduction Sleeve
832100	32mm - 10mm Reduction Sleeve
832120	32mm - 12mm Reduction Sleeve
832140	32mm - 14mm Reduction Sleeve
832160	32mm - 16mm Reduction Sleeve
832180	32mm - 18mm Reductino Sleeve
832200	32mm - 20mm Reduction Sleeve
832250	32mm - 25mm Reduction Sleeve

\*Blue shade = **H-LOCKED**

### 3/4" O.D. Reduction Sleeves

Part No.	Description, O.D. - I.D.
625108	3/4" - 1/8" Reduction Sleeve
625316	3/4" - 3/16" Reduction Sleeve
625104	3/4" - 1/4" Reduction Sleeve
625516	3/4" - 5/16" Reduction Sleeve
625308	3/4" - 3/8" Reduction Sleeve
625716	3/4" - 7/16" Reduction Sleeve
625102	3/4" - 1/2" Reduction Sleeve
625508	3/4" - 5/8" Reduction Sleeve
625003	3/4" - 3mm Reduction Sleeve
625004	3/4" - 4mm Reduction Sleeve
625005	3/4" - 5mm Reduction Sleeve
625006	3/4" - 6mm Reduction Sleeve
625008	3/4" - 8mm Reduction Sleeve
625010	3/4" - 10mm Reduction Sleeve
625012	3/4" - 12mm Reduction Sleeve
625014	3/4" - 14mm Reduction Sleeve
625016	3/4" - 16mm Reduction Sleeve

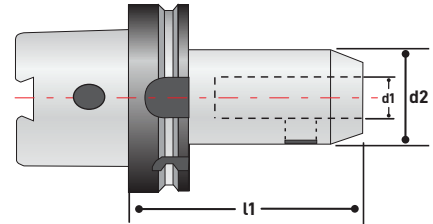
\*Blue shade = **H-LOCKED**

# HSK63F END MILL HOLDERS & FACE MILL ARBORS



## FEATURES

- Balanced to 15,000 RPM at G6.3
- High precision bore (H5) is best in industry



## HSK63F END MILL HOLDERS

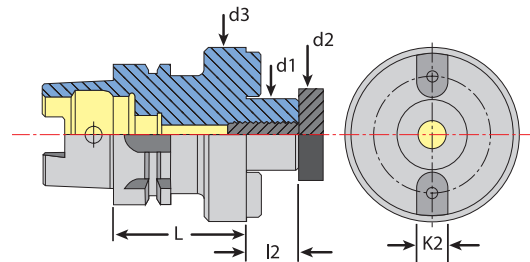
Part No.	Description - I.D.	d1	d2	L	L1
32958-4-F	HSK63F x SLN 3/4" - 4.0"	3/4"	1.75"	4.0"	4.0"
32962-4-F	HSK63F x SLN 1" - 4.0"	1"	2"	4.0"	4.0"
32838-4-F	HSK63F x SLN 25mm - 4.0"	25mm	65mm	4.0"	4.0"
32840-F	HSK63F x SLN 32mm - 110mm	32mm	72mm	110mm	4.0"



Techniks Certified for accuracy

## FEATURES

- Compatible with all face mills
- H6 arbor tolerance for less chatter & better tool life



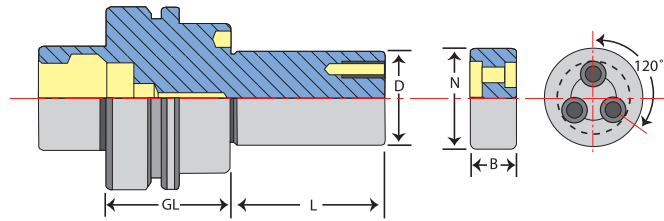
## HSK63F FACE MILL ARBORS WITH DRIVE KEYS

Part No.	Description - I.D.	L	l2	d1	d2	d3	K2
93510-F	HSK63F x FMA 3/4" - 4.0"	4.0"	.69"	3/4"	.88"	1.69"	.31"
93520-F	HSK63F x FMA 1" - 4.0"	4.0"	.69"	1.0"	1.19"	2.20"	.38"
93530-F	HSK63F x FMA 1-1/4" - 4.0"	4.0"	.69"	1-1/4"	1.50"	2.75"	.50"
93540-F	HSK63F x FMA 1-1/2" - 4.0"	4.0"	.94"	1-1/2"	1.88"	3.80"	.63"

# HSK63F AND HSK63E MOULDER HEAD ARBORS



- Arbor nut with 3 tightening screws improves safety
- Precision ground taper provides high accuracy



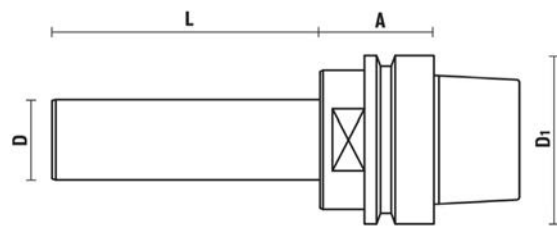
Dimensions are in millimeters unless otherwise indicated.

## HSK63F MOULDER HEAD ARBORS

Part No.	Description	D	L	N	B	GL
41050	HSK63F 1" arbor x 80	1.0"	80	35	20	45
41086-95-8SC	HSK63F 1" arbor x 95	1.0"	95	35	8	45
41086-120-8SC	HSK63F 1" arbor x 120	1.0"	120	35	8	45
41055-8SC	HSK63F 1-1/4" arbor x 50	1 1/4"	50	45	8	45
41060	HSK63F 1-1/4" arbor x 55	1 1/4"	55	42	20	45
41080-3H	HSK63F 1-1/4" arbor x 80	1 1/4"	80	42	20	45
41085	HSK63F 1-1/4" arbor x 100	1 1/4"	100	42	20	45
41087	HSK63F 1-1/4" arbor x 112	1 1/4"	112	42	20	45
41091	HSK63F 50mm arbor x 153	50mm	153	60	10	33



- Arbor nut with 3 tightening screws improves safety
- Precision ground taper provides high accuracy



Dimensions are in millimeters unless otherwise indicated.

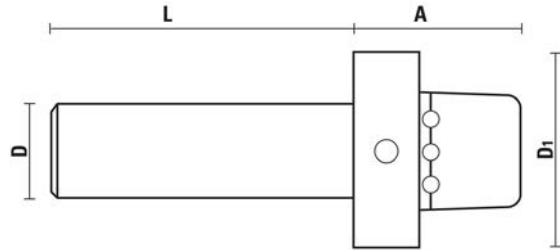
## HSK63E MOULDER HEAD ARBORS

Part No.	Description	D	L	A	D1
H63E30170	HSK63E x 30mm - 170mm	30mm	170mm	42mm	63mm
H63E40170	HSK63E x 40mm - 170mm	40mm	170mm	42mm	63mm

# HSK85 AND ISO30 MOULDER HEAD ARBORS



- Arbor nut with 3 tightening screws improves safety
- Precision ground taper provides high accuracy



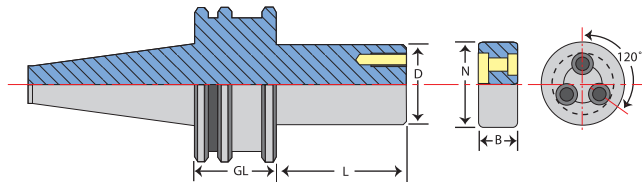
## HSK85 MOULDER HEAD ARBORS

Dimensions are in millimeters unless otherwise indicated.

Part No.	Description	D	L	A	D1
853550	HSK 85W x 35mm - 50mm	35mm	50mm	50mm	85mm
8535100	HSK 85W x 35mm - 100mm	35mm	100mm	58mm	85mm
8535200	HSK 85W x 35mm - 200mm	35mm	200mm	58mm	85mm
854050	HSK 85W x 40mm - 50mm	40mm	50mm	58mm	85mm
8540100	HSK 85W x 40mm - 100mm	40mm	100mm	58mm	85mm
8540240	HSK 85W x 40mm - 240mm	40mm	240mm	58mm	85mm



- Arbor nut with 3 tightening screws improves safety
- Taper ground to AT3 specification for accuracy



## ISO30 MOULDER HEAD ARBORS

Dimensions are in millimeters unless otherwise indicated.

Part No.	Description	D	L	N	B	GL
42700-40-W	ISO30 x 1-1/4" x 40 arbor	1-1/4"	40	42	20	42
42700-55-W	ISO30 x 1-1/4" x 55 arbor	1-1/4"	55	42	20	42
42700-80-W	ISO30 x 1-1/4" x 80 arbor	1-1/4"	80	42	20	42
42700-1.25-100-W	ISO30 x 1-1/4" x 100 arbor	1-1/4"	100	42	20	42

Special sizes made to your specifications. Call for details.

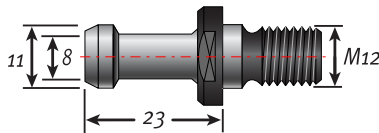
# RETENTION KNOBS



- All mating surfaces precision ground
- Manufactured to the highest standards for maximum safety and long life
- Hardened for maximum longevity

Match the dimensions and appearance of your retention knob to the drawings below. Use the manufacturer's print that came with your machine to verify your selection.

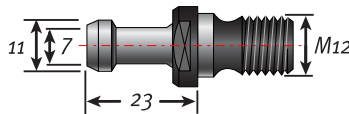
For safe operation, make sure that the pull stud you order is the exact pull stud your machine uses. Using the wrong pull stud can cause damage to the spindle and/or toolholder, and is a safety hazard.



## BT30 - 45°

### Part No. 17801

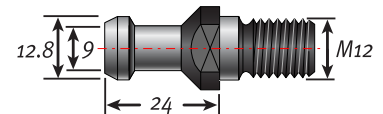
Includes: Heian, Shinx



## BT30 - 60°

### Part No. 17806

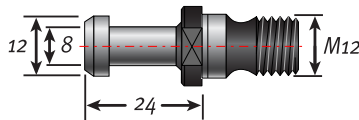
Includes: Shoda, Anderson (1997 and earlier, verify on manufacturer's print)



## BT30 KOMO

### Part No. 750-19

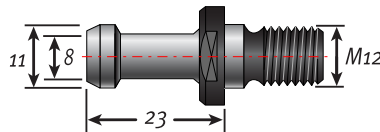
Only for BT30 KOMO routers



## BT30 - 90°

### Part No. 17812

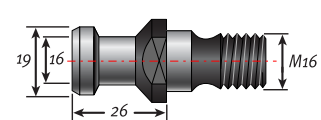
(verify on manufacturer's print)



## BT35 - 60°

### Part No. 4403502

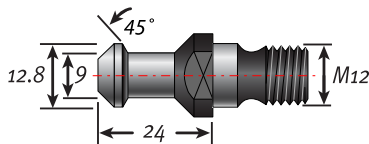
(Heian, verify on manufacturer's print)



## DAT 40

### Part No. 49003

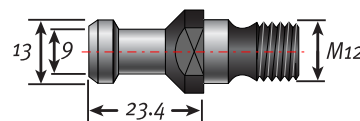
(verify on manufacturer's print)



## COLOMBO ISO30 BALL STYLE FOR RS SPINDLES

### Part No. 49001-45

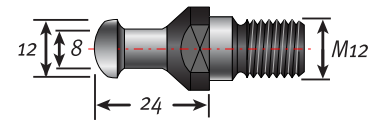
Includes: Motion Master  
(verify on manufacturer's print)



## COLOMBO ISO30 FOR BILLET SPINDLE

### Part No. 49001

Includes: Motion Master, Anderson  
(for newer machines, verify on manufacturer's print)



## ISO30 FOR HSD SPINDLES

### Part No. 49019

Includes: Biesse, Bermag, Bussellato, CNT, DMS, CR Onsrud, Masterwood, ThermoWood, and Holz-her



# SPECIAL ORDER RETENTION KNOBS & COLLETS

## SPECIAL ORDER RETENTION KNOBS

We can get the pull studs you need. Just fill in your pull stud(s) dimensions on the chart below before you call. Keep your information in this catalog for easy re-orders.

Please carefully select the pull stud you need by referring to the diagram. For safe operation please make sure that the pull stud you order is the exact pull stud your machine uses. Improper choice of pull stud can cause damage to the spindle and/or toolholder, and is a potential safety hazard.

Retention Knob	Machine	d1	d2	l1	l2	T

## SPECIAL ORDER COLLET DIMENSIONS

Length \_\_\_\_\_ Diameter \_\_\_\_\_ Other Markings \_\_\_\_\_

Length \_\_\_\_\_ Diameter \_\_\_\_\_ Other Markings \_\_\_\_\_

Length \_\_\_\_\_ Diameter \_\_\_\_\_ Other Markings \_\_\_\_\_

## STANDARD COLLET DIMENSIONS

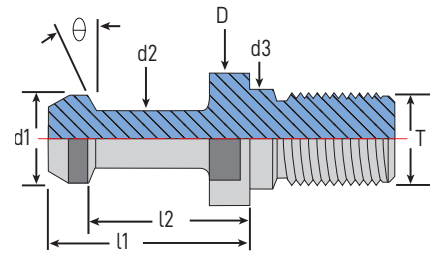
ER Collet Style	Length	O.D. (diameter)
ER11	18mm (0.708")	11.5mm (0.45")
ER16	27.5mm (1.08")	17mm (0.67")
ER20	31.5mm (1.24")	21mm (0.83")
ER25	34mm (1.34")	26mm (1.02")
ER32	40mm (1.57")	33mm (1.3")
ER40	46mm (1.81")	41mm (1.61")
ER50	60 mm (2.36")	52mm (2.05")

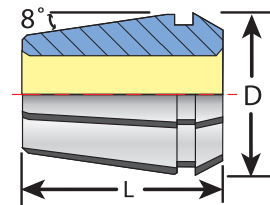
DIN 6388 Collet Style	Length	O.D. (diameter)
EOC 8	26mm (1.026")	14.4mm (0.567")
SYOZ20	34mm (1.34")	20mm (0.78")
RDO20	34mm (1.34")	20mm (0.78")
407E	34mm (1.34")	20mm (0.78")
EOC12	34mm (1.34")	20mm (0.78")
SYOZ25	52mm (2.06")	35mm (1.38")
RDO35	52mm (2.06")	35mm (1.38")
462E	52mm (2.06")	35mm (1.38")
EOC32	60mm (2.36")	43.7mm (1.72")

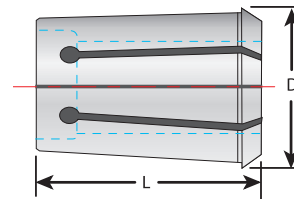
TG Collet Style	Length	O.D. (diameter)
TG75	47mm (1.85")	27mm (1.06")
TG100	60mm (2.36")	35mm (1.38")



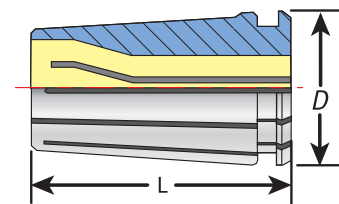
Use the guide below for selecting your replacement collets. The best way to tell what type of collet you need is to measure the length of the collet using a digital caliper. ER, TG, and SYOZ collets all have unique length and diameter measurements.



ER Collet Style



SYOZ Collet Style



TG Collet Style

# WRENCHES FOR COLLET NUTS & HSK CALIBRATION TOOLS



DNA slotted wrench



ER / TG slotted wrench



ER hex wrench



ER mini wrench



TG hook wrench

Correct torque on the collet nut reduces collet wear and improves safety by properly securing cutting tool in the holder. Use the torque chart on page 72 for tightening collet nuts. Do not overtighten nuts or you may damage the collet and/or toolholder.

## DNA SLOTTED WRENCHES

Part No.	Description
04608	DNA11 Wrench
DNA16W	DNA16 Wrench
DNA20W	DNA20 Wrench
DNA32W	DNA32 Wrench
894-22	DNA 16 Mini-Nut Wrench

## ER HEX NUT WRENCHES

Part No.	Description
894-36	ER32 SuperRIGID Hex Nut Wrench
04608	ER11 Hex Nut Wrench
04609	ER16 Hex Nut Wrench
04610	ER20 Hex Nut Wrench

## ER SLOTTED NUT WRENCHES

Part No.	Description
04613	ER16 Slotted Nut Wrench
04614	ER20 Slotted Nut Wrench
04615	ER25 Slotted Nut Wrench
04616	ER32 Slotted Nut Wrench
04617	ER40 Slotted Nut Wrench
04618	ER50 Slotted Nut Wrench

## ER MINI NUT WRENCHES

Part No.	Description
04620	ER8 Mini Nut Wrench
04621	ER11 Mini Nut Wrench
04622	ER16 Mini Nut Wrench
04623	ER20 Mini Nut Wrench
04624	ER25 Mini Nut Wrench

## TG & SYOZ WRENCHES

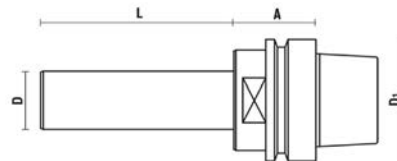
Part No.	Description
04018	TG75 Slotted Nut Wrench
83691	TG100/SYOZ 25 Hook Wrench
22220	SYOZ 20 Hook Wrench

## PIN SPANNER WRENCH

Part No.	Description
SD-SHODA-WRENCH	SD Shoda Wrench

## MILLING CHUCK AND DRILL CHUCK WRENCHES

Part No.	Description
83691	1" Milling Chuck Wrench
84193G	1-1/4" Milling Chuck Wrench
82172	Drill Chuck Wrench



## HSK63F CALIBRATION ARBOR

Part No.	Description
171.02.002.000	HSK 63F Calibration Tool - 4.975"

# ADJUSTABLE TORQUE WRENCHES & COLLET KEY ADAPTERS



## TORQUE WRENCH FEATURES

- Factory calibrated and certified accuracy +/- 3%
- Easy read dial for fast adjustments to torque value
- Improved locking system for a more secure lock



Set adjustable dial to specified torque, and tighten nut until wrench "clicks".

Improved "pull-release" locking system makes locking wrench at correct torque more secure.

## ADJUSTABLE TORQUE WRENCH

Part No.	Range	Length	Weight	Spigot
50TH	7.5-37.5 ft/lbs	12.5"	1.4 lbs	16mm round
200TH	30-150 ft/lbs	16.5"	1.75 lbs	16mm round
300TH	45-228 ft/lbs	21.5"	2.5 lbs	16mm round



ER Mini



TG Hook



DNA Slotted



ER Hex



ER Slotted



ER Slotted Enclosed

## ER MINI-NUT KEY ADAPTERS

Part No.	Size	Type	Torque
04576	ER11 mini	mini	12 ft/lbs
04577	ER16 mini	mini	20 ft/lbs
04578	ER20 mini	mini	22 ft/lbs
04587	ER25 mini	mini	28 ft/lbs

## ER HEX NUT KEY ADAPTERS

Part No.	Size	Type	Torque
04581	ER11 hex	hex	12 ft/lbs
04601-16	ER16 hex	hex	42 ft/lbs
04602-20	ER20 hex	hex	59 ft/lbs

## TG AND SYOZ NUTS KEY ADAPTERS

Part No.	Size	Type	Torque
04018-TWA	TG 75, 45-50mm	hook	90 ft/lbs
03690-25	TG 100/SYOZ25, 55-60mm	hook	90 ft/lbs
04593	SYOZ-20	hook	40 ft/lbs

## ER SLOTTED NUT KEY ADAPTERS

Part No.	Size	Type	Torque
04581	DNA 11	hex	12 ft/lbs
DNA16TWA	DNA 16	slotted	42 ft/lbs
DNA20TWA	DNA 20	slotted	59 ft/lbs
DNA32TWA	DNA 32	slotted	100 ft/lbs
04588-R	ER 32 Enclosed	slotted	100 ft/lbs
04580-16	ER16 slotted	slotted	42 ft/lbs
04580-20	ER20 slotted	slotted	59 ft/lbs
04603-25	ER25 slotted	slotted	77 ft/lbs
04604-32	ER32 slotted	slotted	100 ft/lbs
04605-40	ER40 slotted	slotted	130 ft/lbs

## RETENTION KNOB SOCKETS SQUARE DRIVE



Part No.	Size	Flats	Drive	Torque
PSS-30BT	BT30	.535"	3/8"	36 ft/lbs
PSS-30ISO	ISO 30	.535"	3/8"	36 ft/lbs
PSS-40	All 40 taper	.750"	3/8"	76 ft/lbs
PSC-50	CAT50, BT50	1.187"	1/2"	100 ft/lbs

## FIXED HEAD SQUARE DRIVES

Part No.	Description	Drive
29828	3/8" square drive	3/8"
29827	1/2" square drive	1/2"



# TIGHTENING FIXTURES



## FEATURES

- For CAT, BT, HSK, ISO spindles
- Auto-locking roller bearing design makes tool changes faster and eliminates slippage.



## ROLLER BEARING TIGHTENING FIXTURE

Part No.	Taper
17846B	CAT40, BT40, HSK63A/E/F, C6, ISO40
17385B	ISO30, SK30, HSK50
17386B	BT30
17386B-35	BT35
17584B	HSK32
17586B	HSK40
17785B	CAT50, BT50
17786B	HSK100
17387B	HSK85 Weining



A sliding collar engages the wrench flats on HSK toolholders without drive slots.

## NTS SIDE MOUNT FIXTURES

- For CAT, BT, HSK, ISO spindles
- Change knobs from bottom
- Bolts right to workbench

## SIDE MOUNT TIGHTENING FIXTURE

Part No.	Description
NTS-BT30-38	BT30 taper - 38mm flats
NTS-BT30-41	BT30 taper - 41mm flats
NTS-BT30-Slot	BT30 for tools with drive slots
NTS-ISO20-17	ISO20 - 17mm flats
NTS-ISO20-22	ISO20 - 22mm flats
NTS-ISO25-27	ISO25 - 27mm flats
NTS-ISO30-36	ISO30 - 36mm flats
NTS-ISO30-38	ISO30 - 38mm flats
NTS-ISO30-47	ISO30 - 47mm flats
NTS-HSK63A	HSK63A - no flats
NTS-HSK63F-36	HSK63F - 36mm flats
NTS-HSK63F-38	HSK63F - 38mm flats
NTS-HSK63F-41	HSK63F - 41mm flats
NTS-HSK63F-46	HSK63F - 46mm flats
NTS-40-Taper	Any CAT40 or BT40 taper

# SPINDLE WIPERS AND PRESET GAUGES



## FEATURES

- Cone and spindle wiper for every kind of tool holder
- Collet wiper to avoid wrong positioning of the collet
- Brushes for collet bore

## WIPE OFF KITS

For cleaning boring machines and CNC router machines. Ensures extreme cleanliness of tapered spindles and it maintains the precision and prolongs the life of your expensive machines, cutting tools and toolholders.

Part No.	Description
WK-HSK63F/E0C25	HSK63F / SYOZ25 wipe off kit
WK-HSK63F/ER32	HSK63F / ER32 wipe off kit
WK-HSK63F/ER40	HSK63F / ER40 wipe off kit
WK-ISO30/ER32	ISO30 / ER32 wipe off kit
WK-ISO30/ER40	ISO30 / ER40 wipe off kit



## FEATURES

- For CAT, BT, ISO, HSK spindles
- Keep spindle and tapers clean

## SPINDLE WIPERS

Part No.	Taper	Total Length	Taper Length
17706	30	170	60
17707	40	188	78
17708	50	240	120
38036	HSK63A	165	31
38032	HSK63F	165	31

Real lambskin provides the best cleaning. Use with any type of machine with a taper of 7/24 CAT, BT or DIN 69871.

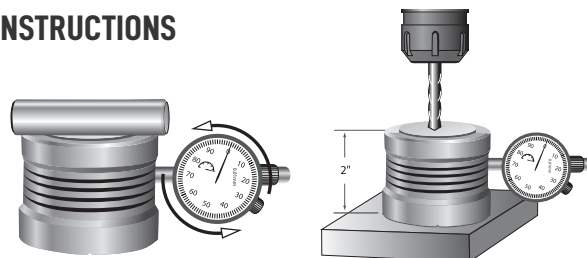


## ANALOG AXIAL PRESET GAUGE

Part No.	Description
17906-2	ZSI-50 preset gauge
17906-04	replacement dial

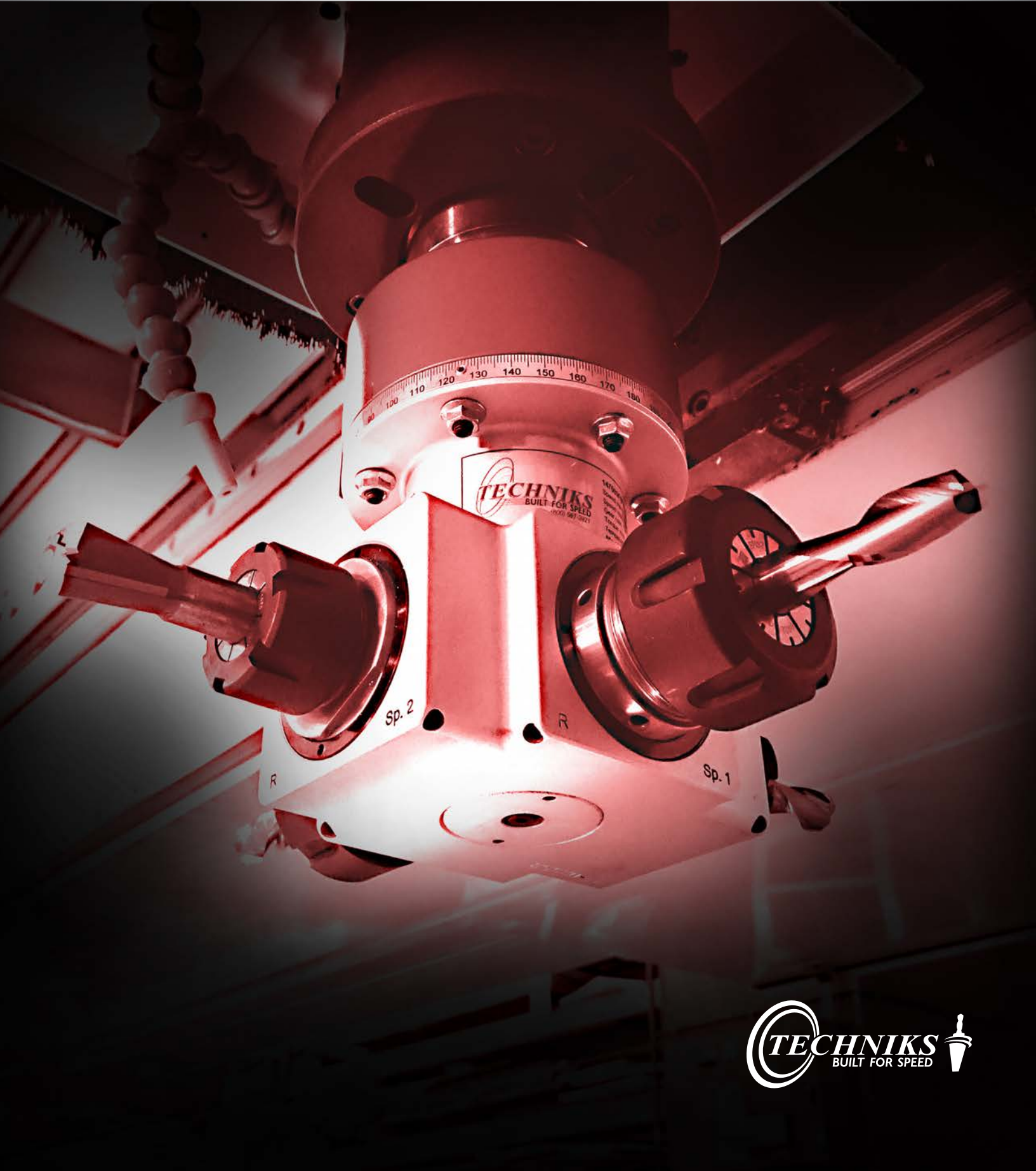
- Accuracy 0.0002"
- Easy to measure tool depth
- Height 2"

## INSTRUCTIONS



1. Use the gauge pin included to press down on the spring-loaded center piece as illustrated. Please be sure the gauge pin is placed on the shiny surface.
2. Turn the indicator to read "0", then remove the gauge pin.
3. Put the unit on the workpiece and carefully jog the tool down to make contact with the gauge face. When the gauge reads "0" the tool is 2" above the workpiece.

# Aggregate Heads For CNC Routers





Boring



Milling



Sawing



Moulding



Finishing

Techniks aggregate heads, also known as angle heads, unleash 5-axis machining to your cnc machining center. Once attached to your spindle drive, aggregates greatly enhance your spindle capabilities, allowing you to machine a wider range of operations and materials. Aggregates are the perfect cutting tool for composites, plastics, and general woodworking operations. including: routing, drilling, mortising, tenoning and sawing.

Techniks offers CNC tool holding systems for milling all types of wood and composite materials, including: plastics, CFRP, GRP, SMC, and aluminium. We offer holder styles from HSK, BT, ISO, and SK collet chuck styles, to high-accuracy options such as shrinkFIT and hydraulic holders. Use our complete selection wrenches and tightening fixtures for efficient tool setup and correct torque.

## HOW TO ORDER AGGREGATES

Call us to talk live with one of our operation engineers. Simply provide the router manufacturer, the spindle type (HSK, ISO, BT, etc.), operation, and the material being processed. We will make sure you get the right aggregate for your needs.

Call 800.597.3921

Email: [info@techniksusa.com](mailto:info@techniksusa.com)

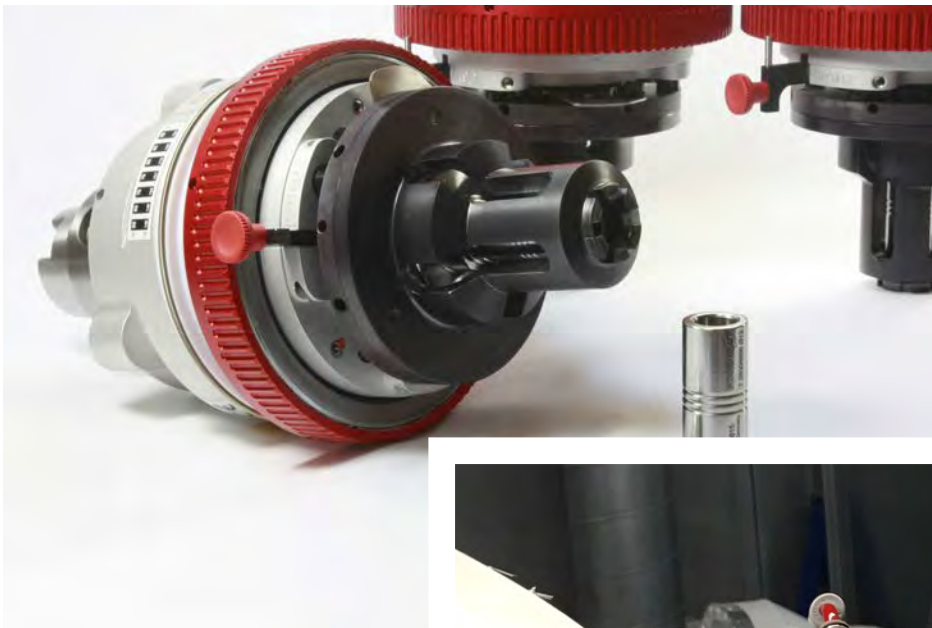


# AGGREGATE HEADS

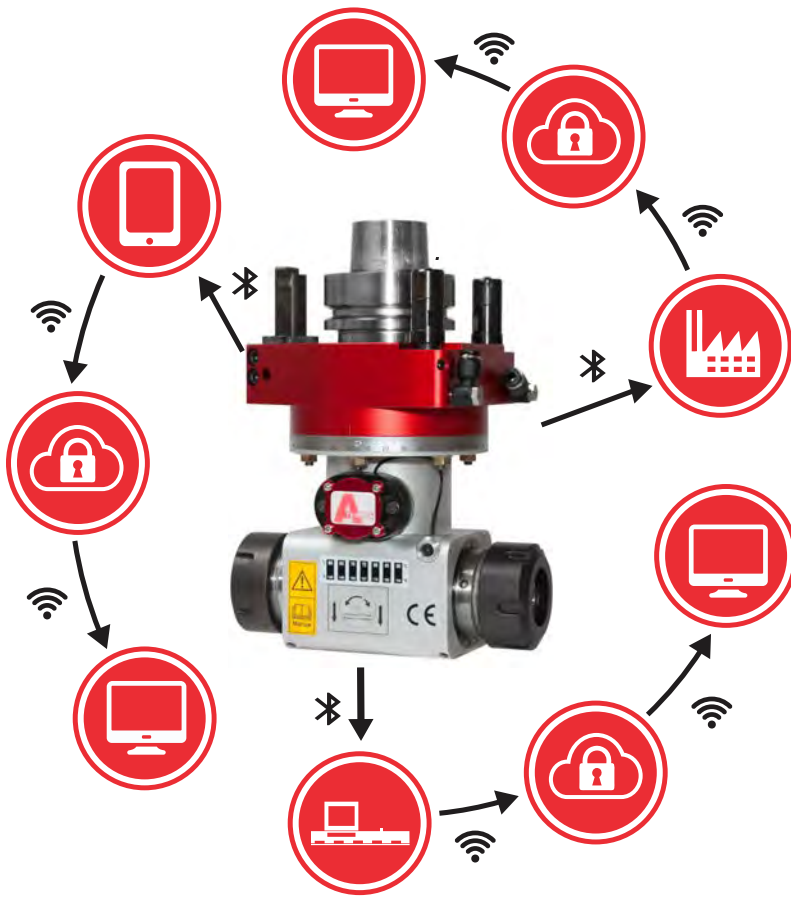


**We go to painstaking lengths** to ensure that our aggregates out-perform the competition. Our obsession to quality craftsmanship is the foundation on which all our of aggregates heads are built.

Only the very best components are used to create our aggregate heads. This is why our aggregate heads run cool, quiet, and trouble-free. Every aggregate head we make is individually hand assembled by one, highly skilled technician who is personally responsible for the quality of that aggregate and performs a rigorous quality assurance procedure; including a 90-point inspection of the bevel gears and a 30-minute test run, before finally sealing the aggregate and signing off on the inspection report.







## CONTROL 4.0



### INCREASE IN EFFICIENCY

Higher speeds and feed rates are possible up to optimum feed/speed ratio. The aggregates report operating condition fluctuations during processing to the machine control.

The control can intervene processing, if necessary. By constantly observing operating conditions, the aggregate is used to its maximum potential in a safe and controlled manner, thus improving overall production efficiency. If required, regardless of the machine control, an application can be used to access the condition of an aggregate at any time.

Using the high-tech sensors of ATEMAG Control 4.0, the aggregate is optimally controlled by the machine to achieve the highest performance. In addition, the machine can intervene when a condition becomes critical. The aggregate is always in constant contact with the machine or the machine operator.



## OPTIMIZED SERVICE INTERVALS

Reads real working hours for predictable maintenance. An integrated lifetime counter reports all necessary service intervals. With an accurate indication of real working hours, it is possible to build a precise, predictable and cost-effective maintenance plan.



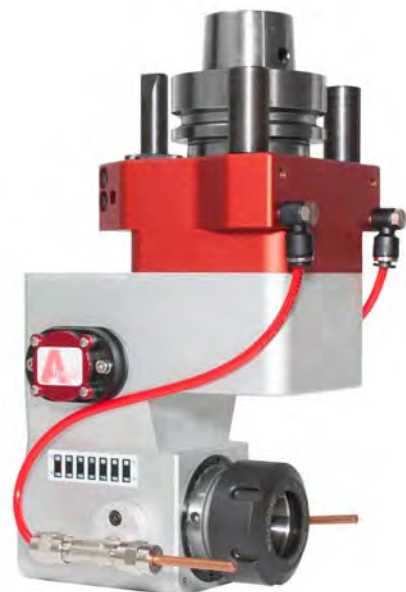
## WEAR INSPECTION

Sensors monitor critical parameters. The sensors in the aggregate monitor all critical parameters in real-time. All data is collected and analyzed in the AC4.0 chipset and in case of exceeded parameters, an alarm is sent to the machine. The machine control can intervene if needed. Depending on the condition the operation can be stopped or can be finished with reduced working parameters to prevent damages in the aggregate.



## REMOTE SERVICING

Alerts DIRECTLY to your digital devices. Through our sophisticated platform every aggregate can be monitored anywhere in the world to meet customer demands. By means of established normal conditions and real-time data collection, the status of an aggregate can be determined remotely. Based on this information proper maintenance decisions can be made.

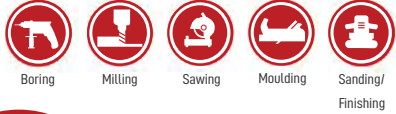




**Spindle Compatibility**  
Our aggregate heads are available for all types of machine spindles.

HSK, CAT, ISO, etc.

**Output Versatility**  
Our innovative line of aggregates feature fixed or modular output systems for all types of wood-based operations.



**Torque Arm Ring**  
We have the torque arm rings for your specific machine requirements.



ER25 or ER32



Modular Quick Change



**Grease or Oil Lubrication**  
All SmartLINE & FunctionLINE aggregates are grease lubricated for standard duty operation. For extended run-time operations our UltraLINE aggregates features oil bath lubrication for optimum cooling.



**High Quality Bevel Gears**  
Our bevel gears are put through a 90 point inspection for quality. Because of this, there is less gear play, less vibration, and wear is reduced. It's a difference you can hear! (Ours are quieter)



Saw Spindles



# AGGREGATE HEAD TYPES

## SMARTLINE AGGREGATES



SmartLINE Aggregates feature a compact & light-weight design for operations where clearance or maneuverability is required. Grease lubricated for long life. SmartLINE aggregates deliver great value, with an excellent price to performance ratio.

## FUNCTIONLINE AGGREGATES



FunctionLINE Aggregates offer the widest selection and are among our most versatile grease lubricated aggregates. Designed for high performance in almost all wood-based materials, they can be purpose-built for almost any operation specific operation

## ULTRALINE AGGREGATES



UltraLINE Aggregates are oil bath lubricated for continuous operation in extreme conditions. Recommended for sawing using blades larger than 7", V-grooving, heavy routing operations, cutting MDF, composite materials, or cutting aluminum.

## Questions About Aggregates?

Call us to talk with one of our operation engineers. Simply provide router manufacturer, spindle type, operation, and the material being processed. We will make sure you get the right aggregate for your needs.

Operation	Speeds/feeds (RPM)	SMARTLINE				FUNCTIONLINE						ULTRALINE				
		Duo	Vario/Viso	Mono	Mono Fix	Duo	Quattro	Vario/Viso	Extra	Soft Touch Pro	Extra II	Mono R	Mono Fix	Duo R	Vario Viso	Mega Cutter
Boring	3000 - 9000min	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○
Milling	8.100 min	◐	●	◐	●	◐	◐	●	◐	●	◐	●	●	●	●	○
	12.000 min	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○
	15.000 min	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○
	18.000 min	○	○	◐	○	◐	◐	○	◐	●	○	○	○	○	○	○
Sawing	Ø 150mm / max. 45mm / 7000 - 10000 min	●	●	●	●	●	●	○	○	◐	●	●	●	●	●	
	Ø 200mm / max. 70mm / 5200 - 7000 min	○	○	●	●	●	●	○	○	○	●	●	●	●	○	
	Ø 250mm / max. 95mm / 4300 - 6000 min	○	○	○	●	○	○	○	○	○	●	●	●	●	○	
	Ø 300mm / max.120mm / 3500 - 4500 min	○	○	○	○	○	○	○	○	○	○	●	●	●	○	
Moulding		○	○	○	○	○	●	○	○	○	○	◐	◐	◐	●	
Sanding/Finishing		◐	◐	◐	◐	◐	◐	◐	●	◐	●	●	●	●	●	

● Suitable    
 ◐ Partly Suitable    
 ○ Not Suitable

## FURNITURE



**Duo**  
Cutout for Clamex P  
joining elements



**Duo**  
Drilling dowel holes



## DOORS / WINDOWS



**Extra**  
Lockset recess



**Extra II**  
Corner notching



# OPERATION EXAMPLES



## CABINERY



Custom (Underneath)  
Cutout for  
kitchenboard  
connectors



Boring



Custom (Vertical)  
Drilling hinges in  
one-step operation



Boring

Custom (Vertical)  
Hole patterns for  
acoustic panels



Boring



Mega Cutter  
Sawing grooves for  
curved or straight  
wood elements



Sawing



## INTERIORS

## SURFACE AND EDGE PROCESSING



**Soft Touch Edge Pro**  
Milling and scraping of glued edges



Sanding/  
Finishing

### Extra

Milling holes for bars with long cutting tools.



Milling



### Quattro

Milling pockets for stair clamping.



Milling



### Hohlstemmer

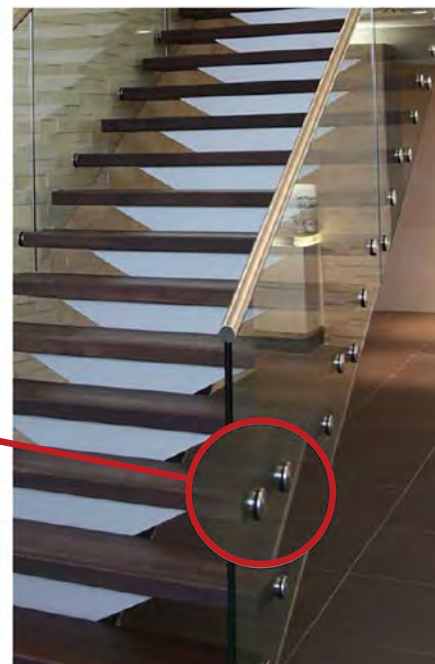
Chisel mortising for stairs.



Milling



## STAIR MANUFACTURING



# SMARTLINE - SOFT GRINDER



## SMARTLINE SOFT GRINDER ORBITAL SANDING ARBOR

Our SOFT GRINDER enables you to carry out full-surface grinding or polishing operations automatically on your CNC machine.

Simply adapt the eccentric grinding unit to your existing tool holders.

Grind your workpiece edges by using the horizontal angle unit or the 5-axis technology on the machine side.

### USE FOR:

- Automated full-surface grinding or polishing
- Vertical surface grinding or horizontal edge grinding
- 5-axis technology (chamfaring)

### FEATURES:

- Adjustable grinding pressure 3 different spring strengths
- Eccentric movement with 5 mm grinding stroke

### INCLUDES:

- Orbital Sanding Extension
- Oscillating Sanding Tool Set



Grinding



Polishing

Max Speed	12000 min <sup>-1</sup>
Sanding Base	150 mm optional 125 / 76 mm
Sanding Stroke	5 mm
Temperature Max	85°
Floating Capacity	Max 4 mm





# SMARTLINE - DUO AGGREGATE HEADS



## SMARTLINE DUO COMPACT AGGREGATE

Light weight aggregate for standard-duty operations on smaller routers or where space is limited. They can be configured with multiple ER25 outputs, a combination of ER and saw outputs, or even with two S1 saw outputs. SmartLINE aggregates are grease lubricated and offer an excellent price-to-performance ratio.

### USE FOR:

- Combine boring and sawing operations
- Creating custom profiles and mortises
- Faster sizing and grooving (saw blade)

### FEATURES:

- Output: two-sided, right angle
- Output options: ER25, saw blade

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately



Boring

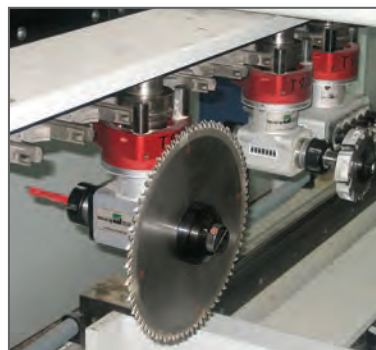


Milling



Sawing

Max Speed Input (Spindle)	8,000 R.P.M.
Max Speed Output (Tool)	12,000 R.P.M.
Max Torque	12 ft/lbs
Gear Ratio	1:1.5
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	M5, S2



# SMARTLINE - VARIABLE ANGLE AGGREGATE HEADS



## SMARTLINE VARIO & VISO ADJUSTABLE ANGLE

Use Vario or Viso Aggregates to cut at any angle from 0° to 100°. The Viso digital display aggregate takes the guesswork out of repeating angles, and makes transfer of angles from prints to aggregate easy.

Vario aggregates can be fitted with an ER25 output, or the Combi saw output that is compatible with 45mm or 52mm bolt circles. The Viso can also accept the modular system.

### FEATURES:

- Compact design for smaller routers or where space is limited.
- Variable angle single output (0° - 100°)
- Viso features digital display for easy angle setting

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately



Boring

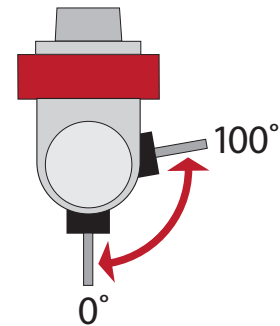


Milling



Sawing

Max Speed Input (Spindle)	15,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	14.75 ft/lbs
Gear Ratio	1:1
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	K1, K2





## SMARTLINE EXTRA LOCKSET RECESS

Innovative lockset recess aggregate features compact design and lighter weight to make this the ideal aggregate for working in tight spaces. Offset design is optimized for cutting lockset recesses, but can be used for other boring operations.

### USE FOR:

- routing out lockset recesses
- other boring operations

### FEATURES:

- Offset design optimized for longer tooling operations such as mortising
- Output options: ER25

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately

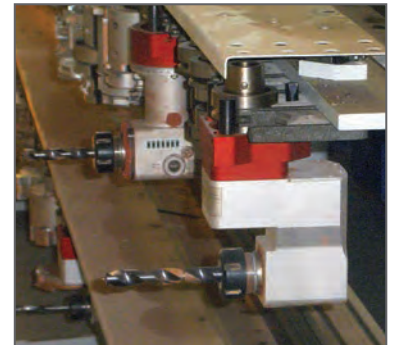
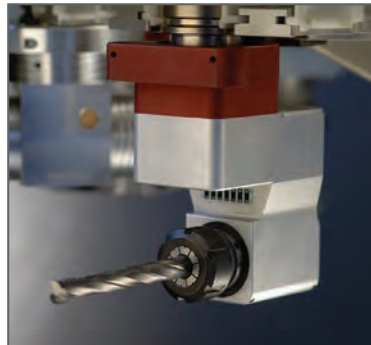


Boring



Milling

Max Speed Input (Spindle)	8,000 R.P.M.
Max Speed Output (Tool)	12,000 R.P.M.
Max Torque	3 ft/lbs
Gear Ratio	1:1.5
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	M5



# FUNCTIONLINE - MONO AGGREGATE HEADS



## FUNCTIONLINE MONO AGGREGATE

An affordable way to add 4th axis capability to your CNC router. Able to perform routing, boring, mortising, and sawing operations.

FunctionLINE Mono aggregates can be configured with either ER25 or ER32 outputs, or a saw arbor, or for maximum flexibility a modular output that allows switching between saw spindles or ER outputs.

### FEATURES:

- Single, right angle output (other angles available)
- Output options: ER25, ER32, saw blade, modular

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately



Boring



Milling

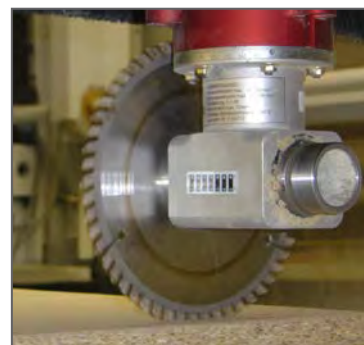


Sawing

Max Speed Input (Spindle)	10,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	14.75 ft/lbs
Gear Ratio	1:1.5
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	M5, R6, S1, S2, Modular



Modular output options



# FUNCTIONLINE - DUO AGGREGATE HEADS



## FUNCTIONLINE DUO AGGREGATE

An affordable way to add 4th axis capability to your CNC router. Able to perform routing, boring, mortising, and sawing operations.

FunctionLINE Duo aggregates can be configured with either ER25 or ER32 outputs, or a saw arbor, or for maximum flexibility a modular output that allows switching between saw spindles or ER outputs.

### FEATURES:

- Dual, right angle output (other angles available)
- Output options: ER25, ER32, saw blade, modular

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately



Boring

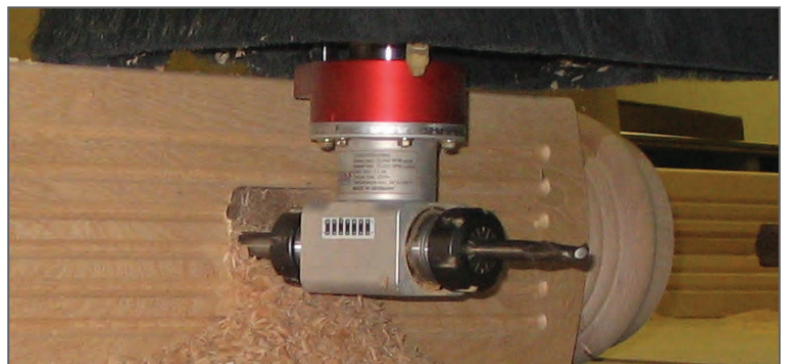


Milling



Sawing

Max Speed Input (Spindle)	10,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	14.75 ft/lbs
Gear Ratio	1:1.5
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	#1 clockwise, #2 opposite
Tool Interfaces	M5, R6, S1, S2, Modular



# FUNCTIONLINE - QUATTRO AGGREGATE HEADS



## FUNCTIONLINE QUATTRO AGGREGATE

FunctionLINE Quattro aggregates can be configured with 4 ER25 outputs, or two ER25 and two ER32 outputs, or two modular outputs and two ER25 outputs. Modular outputs are required for saw spindles.

They provide the greatest number of configurations and operation specific tool output options for routing, boring, mortising, and sawing operations.

### FEATURES

- Quad, right angle outputs
- Practically eliminates time consuming tool changes
- Output options: ER25, ER32, saw blade, modular

### INCLUDES:

- Collet nuts & wrenches
- ER collets sold separately



Boring

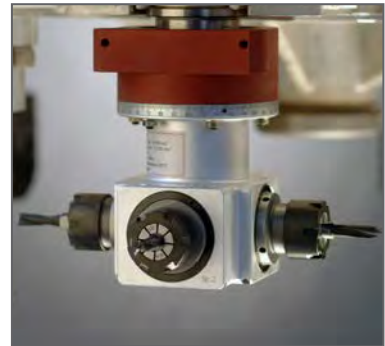
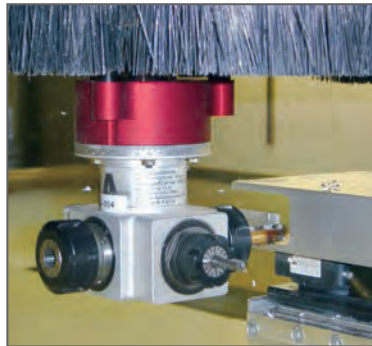


Milling



Sawing

Max Speed Input (Spindle)	10,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	14.75 ft/lbs
Gear Ratio	1:1.5
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	#1 & #2 clockwise, #3 & #4 opposite
Tool Interfaces	M5, R6, S1, Modular



# FUNCTIONLINE - VARIABLE ANGLE AGGREGATE HEADS



## FUNCTIONLINE VARIO/VISO AGGREGATE

Use Vario/Viso Aggregates to cut at any angle from 0° to 100°. They can be fitted with an ER25 output, or the Combi saw output that is compatible with 45mm or 52mm bolt circles. The Viso can also accept the modular system.

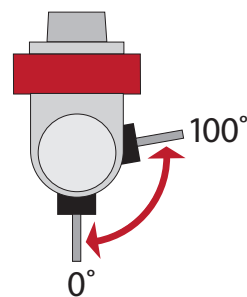
The Viso digital display aggregate takes the guesswork out of repeating angles, and makes transfer of angles from prints to aggregate easy.

### FEATURES:

- Route, drill, saw, or mortise any angle from 0° to 100°
- Viso features digital display for easy angle setting
- Output options: combination ER25 and saw blade or modular system (Viso only)

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately



Boring



Milling



Sawing

Max Speed Input (Spindle)	15,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	14.75 ft/lbs
Gear Ratio	1:1
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Opposite of machine spindle
Tool Interfaces	K1, K2 (Vario) K1, K2, Modular (Viso)



# FUNCTIONLINE - EXTRA AGGREGATE HEADS



## FUNCTIONLINE EXTRA AGGREGATE

Innovative lockset recess aggregate features an offset design optimized for cutting lockset recesses. Can also be used for other boring operations.

### USE FOR:

- routing out lockset recesses
- use ER16 output on back for cutting lock plates
- other boring or routing operations

### FEATURES:

- Offset design optimized for longer tooling operations such as mortising
- ER32 output on front, ER16 on back
- 15,000 RPM tool speed for faster cutting

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately

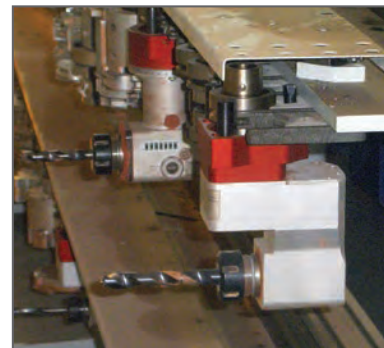
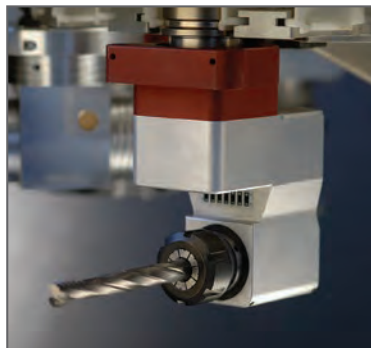


Boring



Milling

Max Speed Input (Spindle)	10,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	14.75 ft/lbs
Gear Ratio	1:1.5
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	Front: ER32 Back: ER16 integral





# FUNCTIONLINE - SOFT TOUCH AGGREGATE HEADS



## FUNCTIONLINE SOFT TOUCH AGGREGATE

The Soft-Touch aggregate head accurately follows the contours of your material, automatically compensating for up to 10mm of variance for consistent depth-of-cut. Floating pressure is adjustable from 1/4 lb. to 20 lbs. Compressed air provides saw dust evacuation.

### FEATURES:

- Up to 10mm of compensation for surface variation
- Eliminate re-work processing
- Optional chip guide directs dust into the machine's dust hood for a cleaner work environment

### INCLUDES:

- Collet nut and wrench, standard floating bell, ER25 or ER32 output (your choice)



Boring

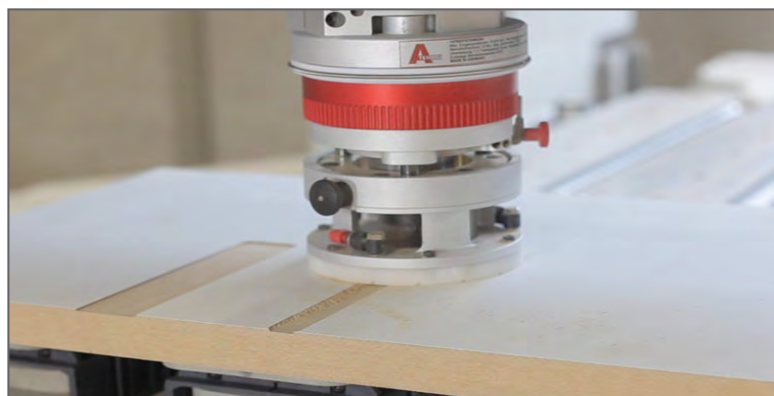
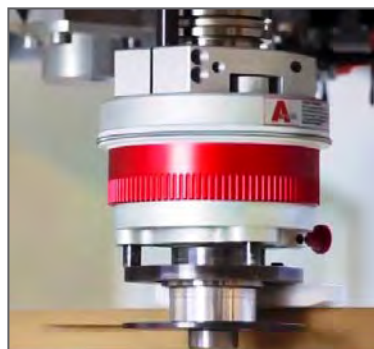


Milling



Sanding/  
Finishing

Max Speed Input (Spindle)	18,000 R.P.M. (24,000 R.P.M option)
Floating Pressure	Adjustable from 1/4 lb. to 20 lbs.
Floating Range	10 mm (with 10mm adjustment)
Floating Bell	70mm deep x 105 mm I.D.
Max Torque	10 ft/lbs
Gear Ratio	1:1
Lubrication	Grease
Max Temp.	85° C / 185° F
Output Direction	Same as machine spindle
Tool Interfaces	Modular



# FUNCTIONLINE - SOFT TOUCH AGGREGATE HEADS



## FUNCTIONLINE SOFT TOUCH AGGREGATE WITH SURFACE COPYING FUNCTION

The Soft-Touch aggregate head accurately follows the contours of your material, automatically compensating for up to 10mm of variance for consistent depth-of-cut. Floating pressure is adjustable from 1/4 lb. to 20 lbs. Compressed air provides saw dust evacuation.

### FEATURES:

- One bell version only with adjustment range of 70mm
- Adjustment precision 0,01mm with lock
- Floating capacity 10 mm
- Low-Backlash torque transfer for clockwise and counterclockwise operations

### INCLUDES:

- Collet nut and wrench  
ER25 or ER32 output (your choice)



Boring

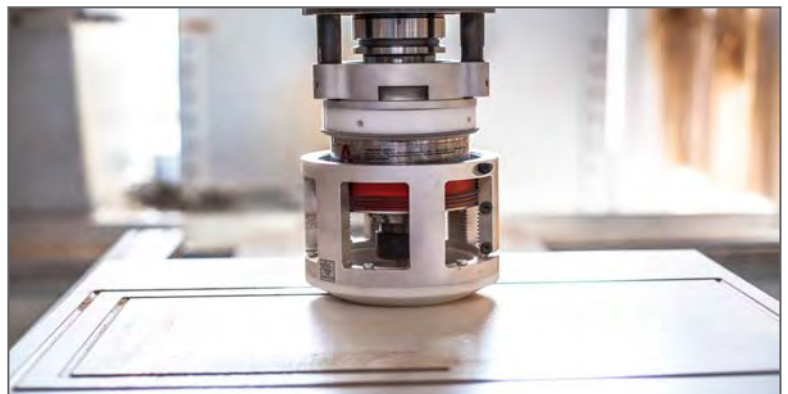


Milling



Sanding/  
Finishing

Max Speed Input (Spindle)	3,000-9,000 R.P.M.
Max Speed Output (Tool)	up to 18,000 R.P.M.
Working Direction	Vertical Fix
Number of Tooloutputs	1
Gear Ratio	1:1
Lubrication	Grease





## FUNCTIONLINE SOFT TOUCH AGGREGATE FOR COMPOSITES

Floating aggregate with surface copying function  
Treatment of Plastic, Composites and Aluminum

Additional bell diameters and lengths available on request. Also different bell materials specifically adapted to different surfaces.

Floating element can be changed by simple bayonet catch. This also allows easy access to tool adaptor.

Floating bells, shoes and sleighs can be added at any time and are interchangeable.

- Floating aggregate with surface copying function
- Treatment of plastic, composites and aluminium
- Suitable for Drilling and Milling, lubrication: grease
- Aggregate available with a lot of machine connections and torque arms
- Protected against dust due special seals
- Internal medium supply
- Almost play-free torque transfer
- Adjustment precision 0,01mm with lock
- Floating capacity 10 mm
- Fast floating element change with bayonet catch
- Fast tool change with adapter system
- Very good rigidity with roller guiding system



Boring

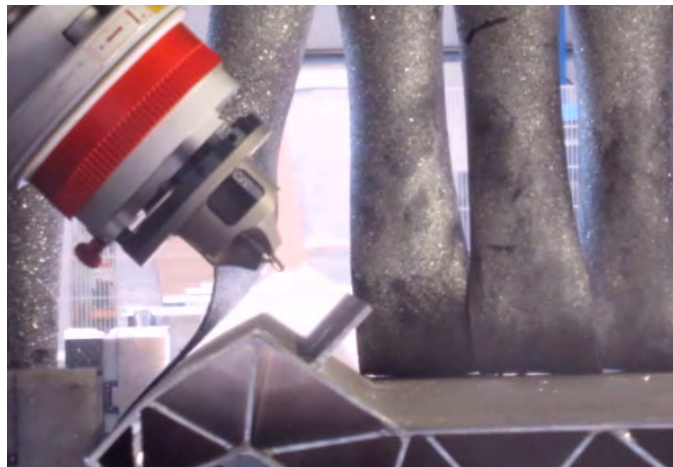


Milling



Sanding/  
Finishing

Max Speed Input (Spindle)	12,000 R.P.M.
Floating Pressure	Adjustable from 1/4 lb. to 20 lbs.
Floating Range	8 mm (with 10mm adjustment)
Floating Bell	70mm deep x 105 mm I.D.
Max Torque	10 ft/lbs
Gear Ratio	1:1
Lubrication	Grease
Max Temp.	85° C / 185° F
Output Direction	Same as machine spindle
Tool Interfaces	Modular



# FUNCTIONLINE - SOFT CUTTER PRO FOR COMPOSITES



## SOFT CUTTER PRO FOR COMPOSITES

Floating aggregate with surface copying function  
Treatment of Plastic, Composites and Aluminum

This is a downholder in order to press the soft material for a better cutting result.

- Aggregate for the cutting of soft materials like foam, leather, felt, honeycomb and other Soft Materials
- Suitable for cutting , lubrication: grease
- Aggregate available with a lot of machine connections and torque arms
- Spindle with high frequency (150hz), amplitude 4mm
- Efficient cutting of honeycomb and other materials l like leather, felt etc.
- No compressed air required
- Short Z-stroke and very low weight
- Aggregate suitable for 5-axis machines, for cuts in any angle
- Straight edges
- Mechanical drivetrain, which prevents that the knife sticks in the materials



Boring

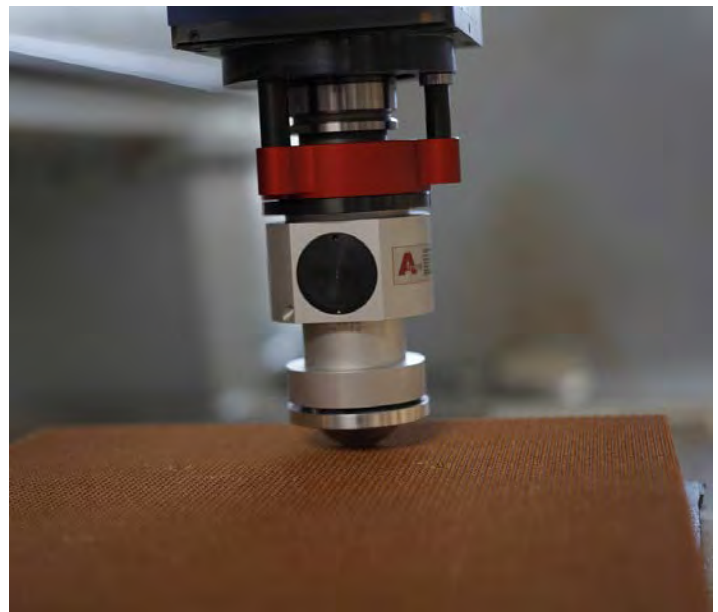


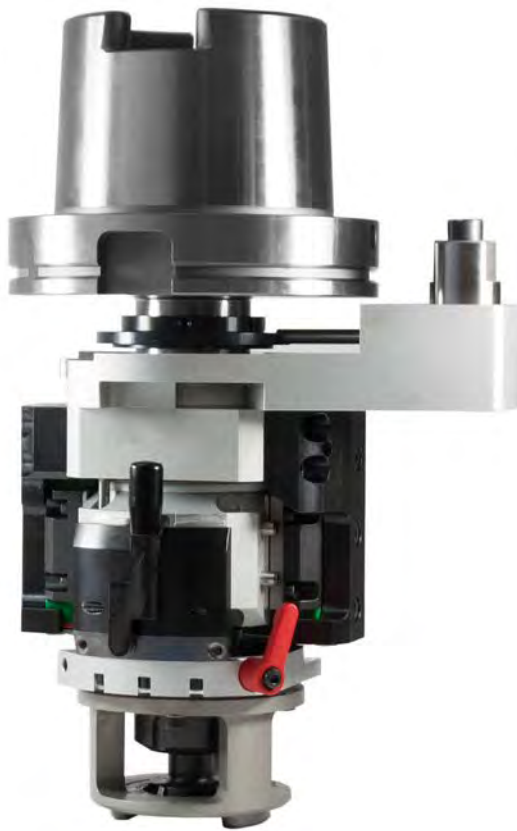
Milling



Sanding/  
Finishing

Max Speed Input (Spindle)	6000 RPM input
Max Speed Output (Tool)	9000 RPM output Frequency 150 Hz
Max Torque	8 ft/lbs
Gear Ratio	1:1.48
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Tool Interfaces	for cutting knife toolshaft Ø6





## SOFT TOUCH CUBE FUNCTION LINE

Floating aggregate with surface copying function.

Most solid floating aggregate for treatment of Plastic, Composites and Aluminum.

- Floating aggregate with surface copying function
- Most solid floating aggregate for treatment of plastic, composites and aluminium
- Suitable for Drilling and Milling, lubrication: grease
- Aggregate available with a lot of machine connections and torque arms
- Extreme rigidity and power transmission with special construction
- Protected against dust due special seals
- Almost play-free torque transfer
- Floating capacity 10 mm
- Adjustment precision 0,01mm with lock
- Fast tool change with adapter system
- Adjustment distance of 30mm

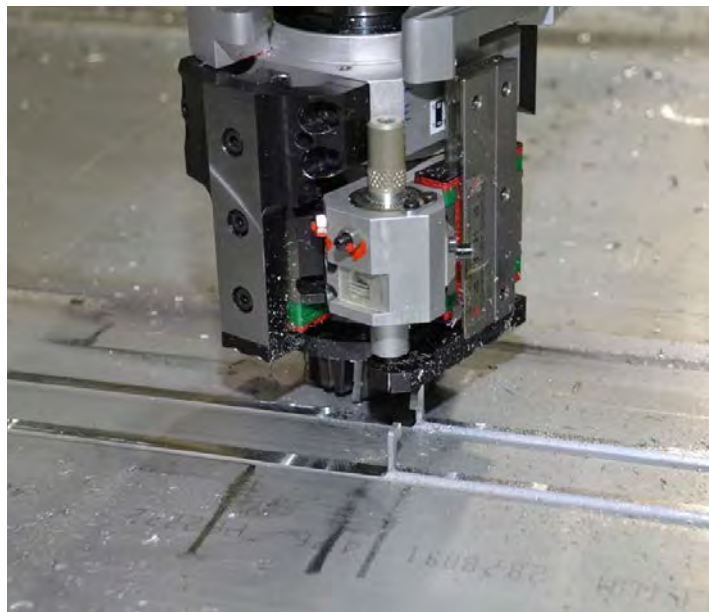


Boring



Milling

Max Speed Input (Spindle)	6000 RPM input
Max Speed Output (Tool)	12,000 (RPM)
Max Torque	15 ft/lbs
Gear Ratio	1:1
Lubrication	Grease
Max Temp.	85° C / 185° F
Rotation	360°
Tool Interfaces	for cutting knife toolshaft Ø6



# ULTRALINE - MONO AGGREGATE HEADS



## ULTRALINE MONO AGGREGATE

UltraLINE aggregates are an affordable way to add 4th axis capability to your CNC router. Perform routing, boring, mortising, and sawing operations faster and easier. We recommend UltraLINE aggregates for sawing using blades larger than 7", V-grooving, heavy routing operations, cutting MDF, composite materials, or cutting aluminum.

### FEATURES

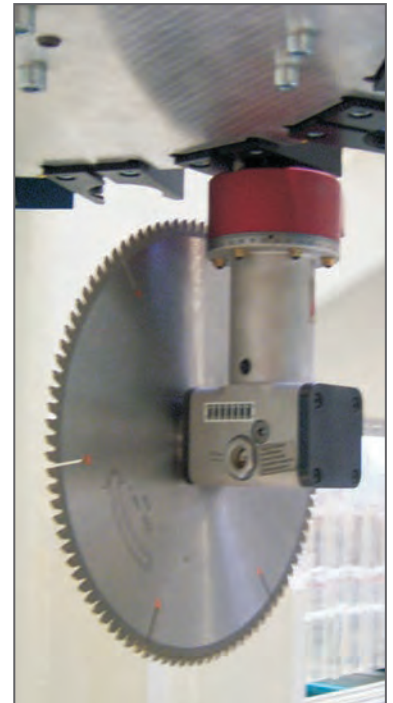
- Oil bath gear lubrication for superior wear resistance during heavy-duty operations
- Single, right angle output (other angles available)
- Output options: ER25, ER32, saw blade, arbor

### INCLUDES:

- Collet nut & wrenches
- ER collets sold separately



Max Speed Input (Spindle)	10,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	16.25 ft/lbs
Gear Ratio	1:1.5
Lubrication	Oil Bath
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	M5, R6, S1, S2, A1, A2, A3, A4, O5, R7



# ULTRALINE - DUO AGGREGATE HEADS

## ULTRALINE DUO AGGREGATE

UltraLINE aggregates add 4th axis capability to your CNC router. Perform routing, boring, mortising, and sawing operations faster and easier. We recommend UltraLINE aggregates for sawing using blades larger than 7", V-grooving, heavy routing operations, cutting MDF, composite materials, or cutting aluminum.

### FEATURES

- Oil bath gear lubrication for superior wear resistance during heavy-duty operations
- Dual, right angle output (other angles available)
- Output options: ER25, ER32, saw blade, Prolock

### INCLUDES:

- Collet nuts & wrenches
- ER collets sold separately



Boring



Milling



Sawing



Sanding/  
Finishing

Max Speed Input (Spindle)	10,000 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	16.25 ft/lbs
Gear Ratio	1:1.5
Lubrication	Oil Bath
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Same as machine spindle
Tool Interfaces	M5, R6, S1, S2, A1, A2, A3, A4, 05



# ULTRALINE - VARIABLE ANGLE AGGREGATE HEADS



## ULTRALINE VARIO/VISO AGGREGATE

UltraLINE aggregates feature oil bath lubricated gearing for superior wear resistance, and are sealed from all contaminants for extended life under heavy-duty conditions.

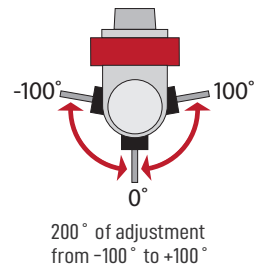
UltraLINE aggregates are perfect for sawing using blades larger than 7", V-grooving, heavy routing operations, cutting MDF, composite materials, or cutting aluminum.

### FEATURES:

- Full 200° of angle adjustment from -100° to 100°
- Most flexible of any aggregate head
- Create "impossible" custom profile and mortises
- Faster sizing and grooving than with router bits

### INCLUDES:

- Collet nut & wrenches
- Torx screws and saw blade connection
- ER collets sold separately



Max Speed Input (Spindle)	13,760 R.P.M.
Max Speed Output (Tool)	15,000 R.P.M.
Max Torque	16.25 Ft/lbs
Gear Ratio	1:1.09
Lubrication	Oil Bath
Max Temp.	85° C / 185° F
Rotation	360°
Output Direction	Opposite machine spindle
Tool Interfaces	K1, K2





## ULTRALINE MOULDER AGGREGATE

UltraLINE Moulder aggregates are used with a variety of cutting tools to shape and form as required. They are also used for gang saw operations. They feature oil bath lubricated gearing for superior wear resistance under heavy-duty use.



### FEATURES:

- Gear reduction for high torque
- 30mm x 120mm arbor size
- Optional Chip Guide for dust control

### INCLUDES:

- Slide hammer and saw pins



Moulding

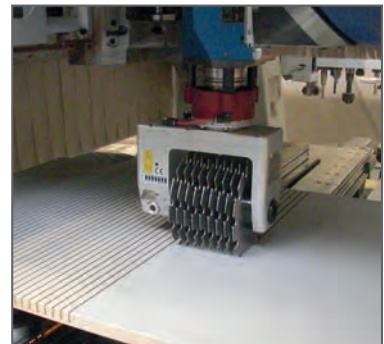


Sawing



Sanding/  
Finishing

Max Speed Input (Spindle)	11,380 R.P.M.
Max Speed Output (Tool)	7,690 R.P.M.
Max Torque	17 Ft./lbs
Gear Ratio	1:0.641
Lubrication	Oil Bath
Max Temp.	85° C / 185° F
Output Direction	Same as machine spindle
Tool Interfaces	Arbor Size: 30mm x 120mm



# OTHER AGGREGATE HEAD TYPES



3 inline outputs for boring

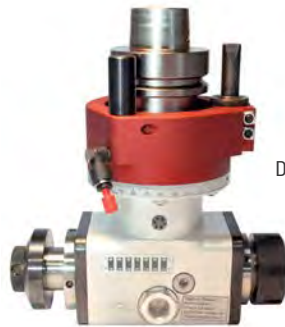
edge routing



Functionline  
Ultraline  
Fix 45



Floating Aggregate with  
Chip Guide System



DUO Ultra Line



mortising  
chainsaw style



Special Quattro  
aggregate with  
horizontal drill  
bank attached



7 tool drill bank



chisel  
corner  
squaring

00316-L.....	11	04211-03.0.....	16	04216-7/32.....	14
00316-R.....	11	04211-03.5.....	16	04216-9/32.....	14
00316-SLN-L.....	11	04211-04.0.....	16	04220-01.....	16
00316-SLN-R.....	11	04211-04.5.....	16	04220-01.5.....	16
00400.....	38	04211-05.0.....	16	04220-02.....	16
00400/00450-EP.....	38	04211-05.5.....	16	04220-02.5.....	16
00450.....	38	04211-06.0.....	16	04220-03.....	16
00500.....	39	04211-06.5.....	16	04220-03.5.....	16
00500-C.....	39	04211-07.0.....	16	04220-04.....	16
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00600-00166.....	38, 39	04211-1/8.....	14	04220-05.5.....	16
00600-00167.....	38, 39	04211-3/16.....	14	04220-06.....	16
00600-00168.....	38, 39	04211-3/32.....	14	04220-06.5.....	16
00600-9002.....	39	04211-5/32.....	14	04220-07.....	16
00600-9003.....	39	04211-7/32.....	14	04220-07.5.....	16
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00600-9005.....	39	04211IS.....	14	04220-08.5.....	16
00600-9006.....	39	04212IS.....	14	04220-09.....	16
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04018.....	48	04216-01.5.....	16	04220-10.5.....	16
04018-TWA.....	49	04216-02.....	16	04220-11.....	16
04200MS.....	16	04216-02.5.....	16	04220-11/32.....	14
04201MS.....	16	04216-03.....	16	04220-11.5.....	16
04202MS.....	16	04216-03.5.....	16	04220-1/16.....	14
04203MS.....	16	04216-04.....	16	04220-1/2.....	14
04204MS.....	16	04216-04.5.....	16	04220-12.....	16
04205MS.....	16	04216-05.....	16	04220-12.5.....	16
04206MS.....	16	04216-05.5.....	16	04220-13.....	16
04207MS.....	16	04216-06.....	16	04220-13/32.....	14
04208-01.0.....	16	04216-06.5.....	16	04220-13.5.....	16
04208-01.5.....	16	04216-07.....	16	04220-1/4.....	14
04208-02.0.....	16	04216-07.5.....	16	04220-14.....	16
04208-02.5.....	16	04216-08.....	16	04220-15/32.....	14
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04208-04.0.....	16	04216-09.5.....	16	04220-3/32.....	14
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04209IS.....	14	04216-1/8.....	14	04225-02.....	17
04210IS.....	14	04216-3/16.....	14	04225-02.5.....	17
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04832	9	05954-1.25	22	153750	41
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16107.....	5	17906-04.....	51	27116-65.....	23
16108-2.5.....	5	17906-2.....	51	29827.....	49
16109.....	5	18851-03.....	32	29828.....	49
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16111.....	5	18851-05.....	32	30001.....	3
16111-90.....	5	18851-05.5.....	32	30001-L.....	3
16112.....	5	18851-06.....	32	30001-Solid.....	3
16113.....	5	18851-11/64.....	32	30002.....	3
16114.....	5	18851-12IMS.....	32	30003.....	3
16115.....	5	18851-13/64.....	32	30005.....	3
16121.....	5	18851-1/4.....	32	300TH.....	49
16131.....	5	18851-15/64.....	32	31025F.....	3
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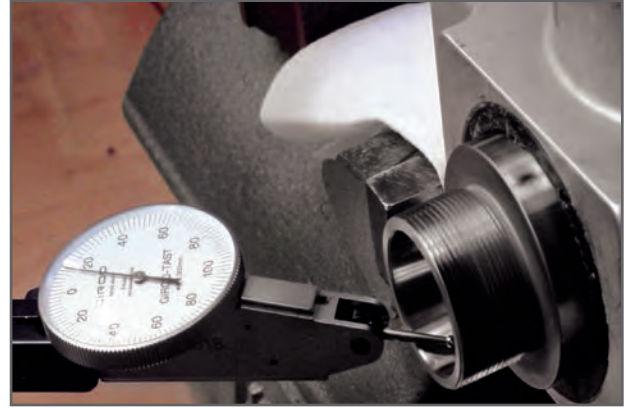
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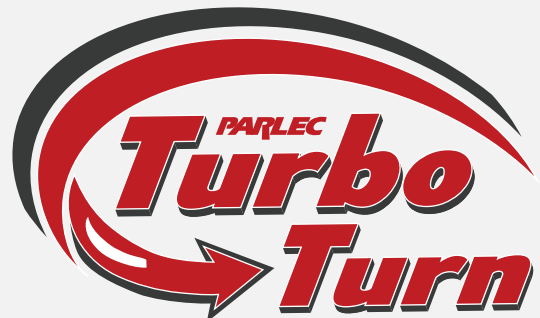


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