

Techniks CNC Router Tooling



Toolholders

Drill Chucks

Collets

ShrinkFIT

Arbors

Set-up Tools

Aggregate Heads



TECHNIKS
BUILT FOR SPEED
www.techniksusa.com



2012

Techniks – Quality Toolholders & More!

Techniks is a partner you can depend on.

You know we make toolholders, but do you know that becoming a Techniks customer means you have a partner who will work hard to provide top quality products, excellent customer service, and the engineering support necessary to expand your business? We are here to support your needs and make sure you are 100% satisfied with our products.

With Techniks you get:

- *certified, lab-tested products that provide outstanding performance and extend cutter life*
- *live phone support (toll-free) 8:00 am – 6:00 pm E.S.T.*
- *fast, friendly response to your quote requests*
- *orders ship the same day they are received! (ground orders received by 2:00 pm, or expedited orders received by 5:00 pm – all ship same day)*
- *each order is checked 4 times before shipping (99.9% average shipping accuracy – yes, we track this each month)*
- *all products are backed by our 100% satisfaction guarantee*
- *full factory support before, during, and after the sale*
- *training on how to use our products if needed*
- *24/7 access to request a quote, view detailed product information, or order catalogs, on the web (www.techniksusa.com)*
- *receive promotions and product information by opt-in email*



Live phone support means your calls are given immediate attention.



Orders ship the same day they are received. (ground orders received by 2:00 pm, or expedited orders received by 5:00 pm – all ship same day)



Headquarters are located in Indianapolis, Indiana

The whole team at Techniks is committed to excellent customer service and fast, accurate, fulfillment of orders.

Thank You for considering Techniks for your CNC Router tooling needs.

Sincerely,

John Stagge
President
Techniks Inc.



For more information call Toll Free: (800) 597-3921 or (317) 803-8000 • Fax: (877) 776-9994 or (317) 803-8001

Contact us by email: info@techniksusa.com • Website: www.techniksusa.com

Office Hours: M-F, 8:00 am - 6:00 pm E.S.T. • Techniks Inc., 9930 E. 56th St., Indianapolis, IN 46236

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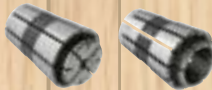
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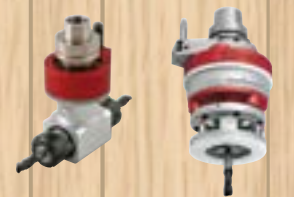
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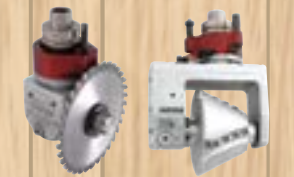
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Featured Technology – Techniks Certified

Techniks Certified Holders are individually tested, inspected, and measured for quality, balance, and accuracy. Full lab report included (see below)

Techniks Certified = High Performance Tooling = Best Runout (T.I.R.)

Lab Certified Accuracy

Each tool holder is lab certified for accuracy and balance.



Taper Accuracy AT3

Taper ground to AT3 accuracy for maximum contact with spindle.

Taper-to-Pocket T.I.R. 0.0001"

Measured from taper O.D. to collet pocket I.D.



Balanced to 25,000 RPM

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

Ultra Precision Collet

Each collet hand inspected. T.I.R. only 0.0002"



PowerCOAT Nuts

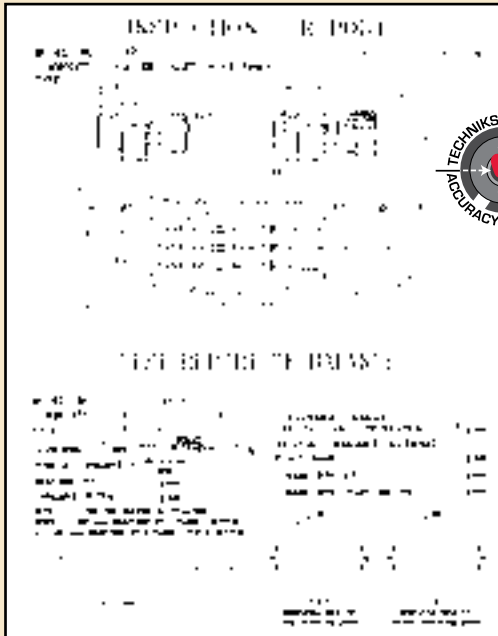
Our PowerCOAT nut holds 40% tighter than bearing nuts for best T.I.R. and rigidity.



Balanced Nut

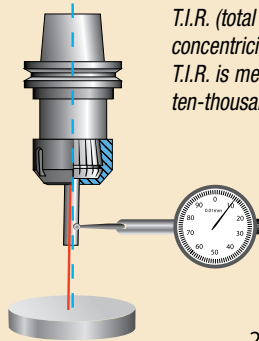
Balanced nut reduces vibration to extend cutting tool life.

Each Tool Individually Lab Certified



A full report comes with each tool.

How T.I.R. Affects Cutting Tool Life

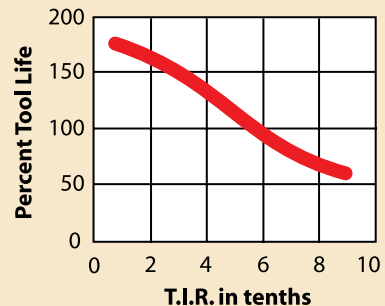


T.I.R. (total indicator runout) is the measure of concentricity of the cutting tool in the tool holder. T.I.R. is measured in "tenths" (.0001") or one ten-thousandths of an inch.

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.



Enjoy package savings on Techniks Certified Tooling



SAVE
\$732

25 Piece HSK63F Tooling Package

HSK63F Holders and SYOZ25 Collets

Normal List Price: **\$3,332.00** Special Package Price: **\$2,600.00**

Save \$732.00

Order Package No. TP-H63SYOZ

Qty.	Part No.	Description	List Price	Extended
12	31205F	HSK63F x SYOZ25	\$249.00	\$2,988.00
12	83868-XX	SYOZ25 collet	\$27.00	\$324.00
1	83691	SYOZ25 wrench	\$20.00	\$20.00

Note: Select your choice of collet sizes from our catalog.



SAVE
\$478

17 Piece HSK63F Tooling Package

HSK63F Holders and SYOZ25 Collets

Normal List Price: **\$2,228.00** Special Package Price: **\$1,750.00**

Save \$478.00

Order Package No. TP-H63SYOZMini

Qty.	Part No.	Description	List Price	Extended
8	31205F	HSK63F x SYOZ2 5	\$249.00	\$1,992.00
8	83868-XX	SYOZ25 collet	\$27.00	\$216.00
1	83691	SYOZ25 wrench	\$20.00	\$20.00

Note: Select your choice of collet sizes from our catalog.



SAVE
\$514

21 Piece HSK63F Tooling Package

HSK63F Holders and ER40 Collets

Normal List Price: **\$2,814.00** Special Package Price: **\$2,300.00**

Save \$514.00

Order Package No. TP-H63ER40

Qty.	Part No.	Description	List Price	Extended
10	30001	HSK63F x ER40	\$249.00	\$2,490.00
10	04240-XX	ER40 collet	\$30.00	\$300.00
1	04617	ER40 - E Wrench	\$24.00	\$24.00

Note: Select your choice of collet sizes from our catalog.



All Techniks products are backed by our 100% satisfaction guarantee!

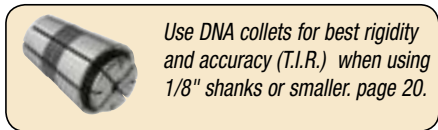


HSKF and HSKE Toolholders for CNC Routers

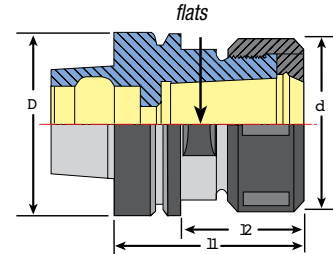


HSK63F

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *Includes PowerCOAT nut*



Use DNA collets for best rigidity and accuracy (T.I.R.) when using 1/8" shanks or smaller. page 20.



Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

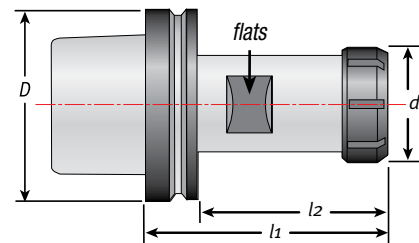
HSK50F and 63F Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench	Flats
31419-F	HSK50F x ER32 - 80	50	50	80	54	46132	04616	-
31431-F	HSK63F x ER16 - 60	63	32	60	34	46116	04613	26
31434-F	HSK63F x ER16 - 100	63	32	100	74	46116	04613	26
30000	HSK63F x ER32 - 70	63	50	70	44	46132	04616	36
30001	HSK63F x ER40 - 75	63	63	75	50	46140	04617	46
30001-L	HSK63F x ER40 - 75 left-handed	63	63	75	50	46140-L	04617	46
30002	HSK63F x ER40 - 90	63	63	90	64	46140	04617	46
30003	HSK63F x ER40 - 115	63	63	90	64	46140	04617	46
30005	HSK63F x ER40 - 125	63	63	125	99	46140	04617	46
31025F	HSK63F x SYOZ25 - 80	63	60	80	54	03638	03691	38



HSK-E

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *Includes PowerCOAT nut*



Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

HSK32E, 40E, 50E, 63E Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench	Flats
31374-60	HSK32E x ER25	32	42	48	27	46125	04615	22
31376-E	HSK40E x ER16 - 65*	40	28	65	45	46116	04613	24
31383-E	HSK40E x ER25 - 75	40	42	75	55	46125	04615	27
31386-E	HSK40E x ER32 - 100	40	50	100	80	46132	04616	35
31419-E	HSK50E x ER32 - 85	50	50	85	59	46132	04616	36
31456-E	HSK63E x ER32 - 90	63	50	90	64	46132	04616	none
31472-E	HSK63E x ER40 - 120	63	63	120	94	46140	04617	none
50001	HSK63E x ER40 - 75	63	63	75	49	46140	04617	none

ISO and SK Toolholders for CNC Routers



ISO30

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *Includes PowerCOAT nut*



ISO20



Collets
pg. 12



Nuts
pg. 18



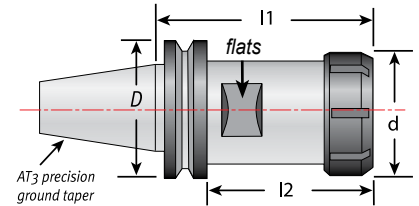
Dust Seals
pg. 22



Retention
Knobs
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Setup
Equipment
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Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

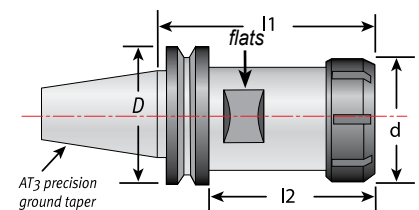
ISO20, 30, and 40 Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench	Flats
30383	ISO20 x ER16M - 52 w/HS mini nut & stud	30	22	52	36	33116	04622	17
16000-2016MC	ISO20 x ER16 - 52 coated HS mini nut & stud	30	22	52	36	53116	04622	17
16000-2516	ISO20 x ER16 - 52	30	32	52	36	46116	04613	17
16000-2520	ISO20 x ER20 - 52	30	35	52	36	46120	04614	17
42407-W	ISO30 x ER11M - 100	50	16	100	84	23111	04621	14
42000-CMS	ISO30 x ER32 - CMS	46	50	58	42	46132	04616	36
42213-W-50	ISO30 x ER32 - 50	50	50	50	34	46132	04616	47
42213-W-50-L	ISO30 x ER32 - 50 (left-hand thread)	50	50	50	34	46132-L	04616	47
42213-W-63	ISO30 x ER32 - 63	50	50	63	47	46132	04616	36
42213-W-63-L	ISO30 x ER32 - 63 (left-hand thread)	50	50	63	47	46132-L	04616	36
42213-W-90	ISO30 x ER32 - 90	50	50	90	74	46132	04616	36
42215-W-57	ISO30 x ER40 - 57	50	63	57	41	46140	04617	47
42040-CMS	ISO30 x ER40 - CMS	46	63	66	50	46140	04617	42
42261-W	ISO40 x ER40 - 70mm	63.5	63	70	54	46140	04617	46



SK 30

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *Includes PowerCOAT nut*



Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

SK Toolholders for ANDI and Weeke CNC Routers

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench	Flats
NT-54300130	SK-30 x SYOZ25 - 70	50	60	70	54	83632	03691	38
NT-54300130-L	SK-30 x SYOZ25 - 70 (left-hand thread)	50	60	70	54	83632	03691	38



All Techniks products are backed by our 100% satisfaction guarantee!

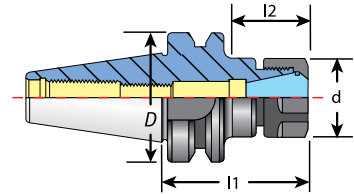


BT30 Toolholders for CNC Routers



BT30, ER16

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *Includes PowerCOAT nut*



Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

BT30 x ER16 Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench
16101	BT30 x ER16 - 70 with hex nut	46	28	70	40	41116	04609
16101-SLOTNUT	BT30 x ER16 - 70 with slotted nut	46	32	70	40	46116	04613
16102	BT30 x ER16 - 60 with hex nut	46	28	60	35	41116	04609
16102-C	BT30 x ER16 - 60 with dust seal nut	46	32	60	35	41616	04609
16102-DNA	BT30 x ER16 - 60 with DNA 16 nut	46	27	60	35	27116	DNA16W
16102-SLOTNUT	BT30 x ER16 - 60 with slotted nut	46	32	60	35	46116	04613
16103	BT30 x ER16 - 90 with hex nut	46	28	90	60	41116	04609
16103-SLOTNUT	BT30 x ER16 - 90 with slotted nut	46	32	90	60	46116	04613
16104	BT30 x ER16 - 100 with hex nut	46	28	100	70	41116	04609
16104-SLOTNUT	BT30 x ER16 - 100 with slotted nut	46	32	100	70	46116	04613
16105	BT30 x ER16 - 120 with hex nut	46	28	120	88	41116	04609
16105-SLOTNUT	BT30 x ER16 - 120 with slotted nut	46	32	120	88	46116	04613

BT30 x ER20 Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench
16106	BT30 x ER20 - 70	46	34	70	44	41120	04610
16106-SLOTNUT	BT30 x ER20 - 70 with slotted nut	46	35	70	44	46120	04614
16107	BT30 x ER20 - 135	46	35	135	109	41120	04614
16107-SLOTNUT	BT30 x ER20 - 135 with slotted nut	46	35	135	109	46120	04614
16108-2.5	BT30 x ER20 - 2.5"	46	34	63.5	41.5	41120	04610
16108-2.5-SLOTNUT	BT30 x ER20 - 2.5" with slotted nut	46	35	63.5	41.5	46120	04614

BT30 x ER25 Toolholders

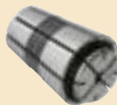
Part No.	Description	D	d	l1	l2	Collet Nut	Wrench
16109	BT30 x ER25 - 70	46	42	70	44	41925	04615
16110	BT30 x ER25 - 60	46	42	60	36	41925	04615
16111	BT30 x ER25 - 135	46	42	135	109	41925	04615
16111-90	BT30 x ER25 - 90	46	42	90	64	41925	04615

BT30, BT35 Toolholders for CNC Routers



BT30, ER32

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *Includes PowerCOAT nut*



Use DNA collets for best rigidity and accuracy (T.I.R.) when using 1/8" shanks or smaller. page 20.



Collets
pg. 12



Nuts
pg. 18



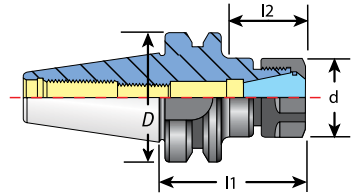
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Retention
Knobs
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Setup
Equipment
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Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

BT30 x ER32 Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench
16112	BT30 x ER32 - 60	46	20	60	27	46132	04616
16113	BT30 x ER32 - 70	46	20	70	33	46132	04616
16121	BT30 x ER32 - 60, 41mm flats - Komo	46	20	60	23	46132	04616
16121-L	BT30 x ER32 - 60, 41mm flats - Komo - (left-hand thread)	46	20	60	23	46132-L	04616
16131	BT30 x ER32 - 90 38mm flats - Komo	46	20	90	43	46132	04616
16114	BT30 x ER32 - 100	46	20	100	53	46132	04616
16115	BT30 x ER40 - 80	46	20	80	38	46132	04616

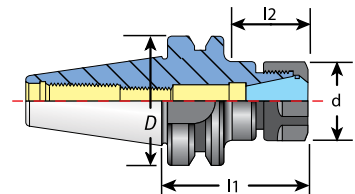
BT30 x SYOZ25 Toolholders

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench
16001-W	BT30 x SYOZ25 - 70, 38mm flats - Komo	46	60	70	48	included	03691
16001	BT30 x SYOZ25 - 70 with nut	46	60	70	48	included	03691



BT30, SYOZ25

- *Balanced to 25,000 RPM at G2.5*
- *Inspection report included for accuracy and balance*
- *includes PowerCOAT nut*



Note: The "l1" dimension is measured with the collet in the nut. Dimensions are in millimeters.

BT35 x ER32 and BT35 x SYOZ25 Toolholders for Heian Routers

Part No.	Description	D	d	l1	l2	Collet Nut	Wrench
16010	BT35 x SYOZ25 - 76 with nut	53	60	76	52	included	03691
161-BT35-ER32 76A	BT35 x ER32 - 76 with nut	53	50	76	52	included	04616



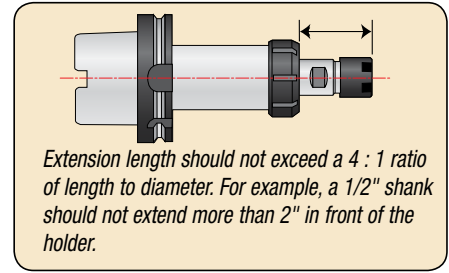
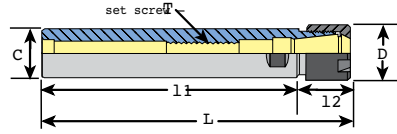
All Techniks products are backed by our 100% satisfaction guarantee!

ER Mini-Nut and Straight Shank Extensions



Use ER Mini Nut style for tight clearance cutting.

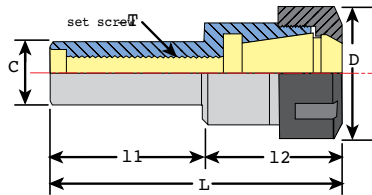
- Collet pocket T.I.R. 0.0001"
- All surfaces precision ground
- Includes PowerCOAT nut



Dimensions are in millimeters unless otherwise indicated.

ER Mini-Nut Extensions

Part No.	Description	C	L	l1	l2	D	Stop Screw	Wrench
04889	3/8" x ER8, - 100	3/8"	124	100	24	12	-	04620
04891	1/2" x ER11, - 140	1/2"	166.5	140	26.5	16	-	04621
04893	5/8" x ER11, - 140	5/8"	158.5	140	18.5	16	-	04621
04895	1/2" x ER16, - 140	1/2"	177	140	37	22	-	04622
04896	3/4" x ER16, - 140	3/4"	165	140	25	22	06083	04622
04892	1/2" x ER20, - 140	1/2"	180	140	40	28	06083	04623
04894	3/4" x ER20, - 140	3/4"	180	140	40	28	06083	04623
04881	20mm x ER20, - 180	20	220	180	40	28	06083	04623
04897	1.0" x ER20, - 140	1.0"	168	140	28	28	06083	04623
04898	3/4" x ER25, - 100	3/4"	149	100	49	35	06087	04624
04888	1.0" x ER25, - 140	1.0"	190	140	50	35	06083	04624



Dimensions are in millimeters unless otherwise indicated.

ER Straight Shank Extensions

Part No.	Description	C	L	l1	l2	D	Stop Screw	Wrench
04851	16mm x ER11, - 140, hex nut	16	174.5	140	21.6	19	-	04608
04855	1/2" x ER11, - 140, hex nut	1/2"	174.5	140	21.6	19	-	04608
04854	5/8" x ER11, - 140, hex nut	5/8"	174.5	140	21.6	19	-	04608
04832	5/8" x ER16, - 60, hex nut	5/8"	95.1	60	35.1	28	-	04609
04834	3/4" x ER16, - 50, hex nut	3/4"	85.1	50	35.1	28	06083	04609
04835	3/4" x ER16, - 100, hex nut	3/4"	135.1	100	35.1	28	06083	04609
04856	3/4" x ER16, - 140, hex nut	3/4"	175.1	140	35.1	28	06083	04609
04836	3/4" x ER20, - 2-1/2", hex nut	3/4"	100	2-1/2"	38	34	06083	04610
04858	1.0" x ER20, - 140, hex nut	1.0"	180.5	140	40.5	34	06083	04610
04837	1.0" x ER25, - 50, slotted nut	1.0"	101	50	51	42	06089	04615
04817	20mm x ER32, - 50, slotted nut	20	97.1	50	47	50	06089	04616
04818	20mm x ER32, - 100, slotted nut	20	146.5	100	47	50	06083	04616
04839	1.0" x ER32, - 50, slotted nut	1.0"	101.5	50	51.5	50	06089	04616
04839-140	1.0" x ER32, - 140, slotted nut	1.0"	191.5	140	51.5	50	06083	04616
04843	1-1/4" x ER32, - 60, slotted nut	1-1/4"	111.5	60	51.5	50	06089	04616
04841	1.0" x ER40, - 50, slotted nut	1.0"	115	50	65	63	06083	04617

Drill Chucks, Adapters, and CMS ER32 Toolholder



- Capacity from 1/16" to 1/2"
- 4 times greater holding power
- Balanced to 10,000 RPM



Collets
pg. 12



Nuts
pg. 18



Dust Seals
pg. 22



Retention
Knobs
pg. 34



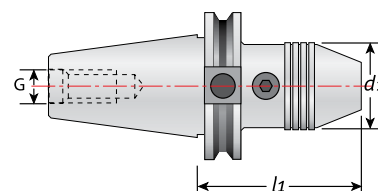
Setup
Equipment
pg. 38

HP3 feature a one-piece design that provides greater rigidity and safety because the chuck cannot break free during operation.

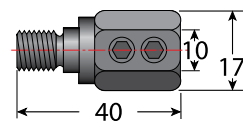
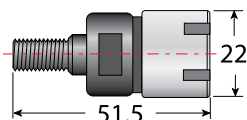
HP3 Precision Drill Toolholders (ISO, BT, HSK)

Dimensions are in millimeters unless otherwise indicated.

Part No.	Description	d1	l1	G
171.05.046.003	HSK63F HP3 drill chuck 1/2"	50	123.5	-
64.05.046.051	ISO30 HP3 drill chuck 1/2"	50	103	M12
67.05.046.001	BT30 HP3 drill chuck 1/2"	50	92.5	M12
39.05.046.001	BT40 HP3 drill chuck 1/2"	50	95.5	M16



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



Threaded Drill Adapters

For CNC routers with inline multi-spindles.

Dimensions are in millimeters unless otherwise indicated.

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

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

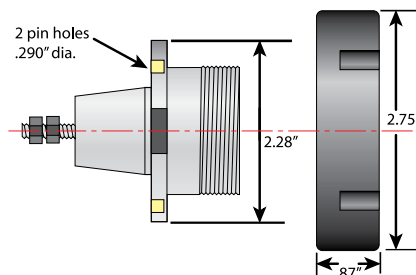


- Use with standard ER32 or DNA ER32 collets
- 0.0002" T.I.R. (collet pocket runout)
- Taper ground to AT3 specification

Order collets and PowerCOAT nut separately.



Turret Nut



CMS ER32 Toolholder

Includes turret nut. Order collets and PowerCOAT nut separately.

Part No.	Description
CMS-RR32	CMS ER32 Toolholder with turret nut



All Techniks products are backed by our 100% satisfaction guarantee!

Featured Technology – ER Collets for CNC Routers

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")*

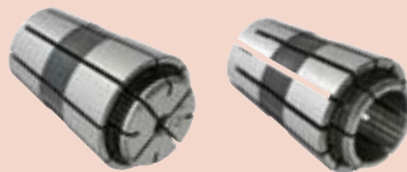
Techniks collets are manufactured from high carbon-bearing steel using a special Swiss grinding technique. Each collet is heat treated for improved clamping range and longer life.

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



Use PowerCOAT nuts for best rigidity and router bit life.

Use DNA ER Collets (Dead Nuts Accurate) for Small Router Bits & Cutters



See page 20 for more information.

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

Featured Technology – PowerCOAT Nut

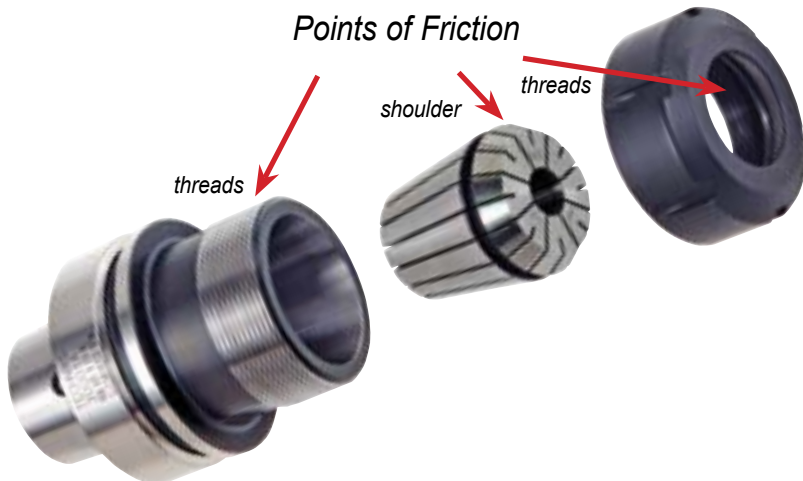


PowerCOAT Nuts Outperform Bearing Nuts

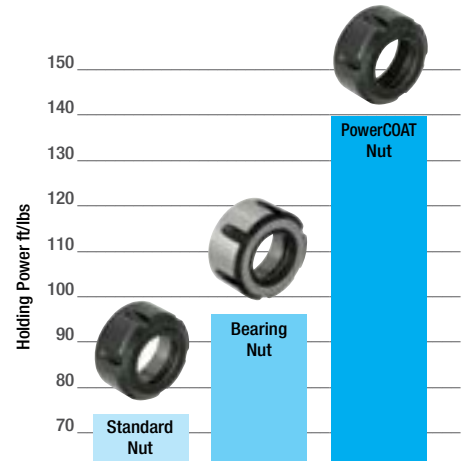
- 40% more holding power = Greater rigidity & accuracy
- Less runout (T.I.R.), better balance (up to 70,000 RPMs)
- Safer: cutting tool is less likely break free

Why CNC Routers Run Better with PowerCOAT Nuts

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.



Holding Power Testing – ft/lbs



Each nut was tightened to 70 ft/lbs recommended torque before break-free testing of holding power.

Why Bearing Nuts Are Obsolete Technology

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

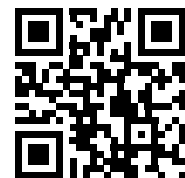
Uncoated threads limit holding power.



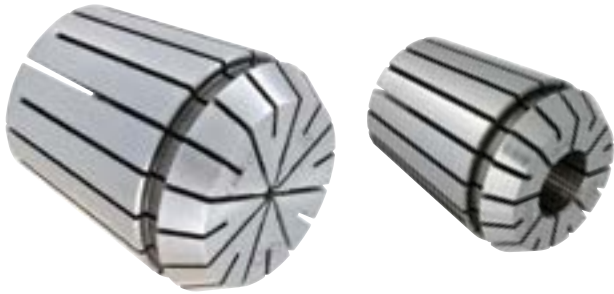
Bearing nuts cannot be balanced because they have moving parts, so cutting tools wear prematurely.



Scan the QR code to see how PowerCOAT nuts hold tighter to improve CNC router performance and shop safety. Or, enter this url: http://delivr.com/1hsm1_qr



Inch Size Precision ER Collets



- Average .0002" T.I.R.
- Clamping range: .039"
- Use with PowerCOAT nut (pg. 18) for best holding power and cutting tool life.

Compatible with DR, RD, ESX, AR, & BR series collets.



Order collet sets to ensure you always have the collets you need on hand.

Ultra Precision Collets

- .0002" T.I.R. or better
- individually tested & measured

ER Inch Size Collet Sets

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

To Order Ultra Precision Collets

Hand-selected Ultra Precision collets are guaranteed .0002" T.I.R. or better. Just place UP in front of the regular part number when ordering.

ER8 Inch Size Collets

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

ER16 Inch Size Collets

Part No.	Inch 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 Inch Size Collets

Part No.	Inch 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"

ER11 Inch Size Collets

Part No.	Inch 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	-	9/32"

Inch Size Precision ER Collets

ER25 Inch Size Collets

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"

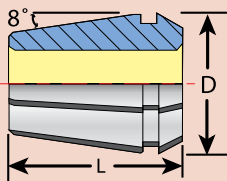
ER32 Inch Size Collets

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 Inch Size Collets

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"

Use the table (below) for selecting your replacement collets. ER collets all have unique length and diameter measurements.



Size	L	D
ER8	13mm (.51")	8.5mm (.33")
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")

ER50 Inch Size Collets

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"



All Techniks products are backed by our 100% satisfaction guarantee!

Metric Size Precision ER Collets and Collet Sets



Compatible with DR, RD, ESX, AR, & BR series collets.



- Average .0002" T.I.R.
- Clamping range: .039"
- Use with PowerCOAT nut (pg. 18) for best cutting tool life.

To Order Ultra Precision Collets

Hand-selected Ultra Precision collets are guaranteed .0002" T.I.R. or better. Just place UP in front of the regular part number when ordering.

ER8 Precision Metric Collets

Part No.	Inch Range	Shank mm
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

ER11 Precision Metric Collets

Part No.	Inch Range	Shank mm
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

ER Metric Collet Sets

Part No.	Size	Pieces	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

ER16 Precision Metric Collets

Part No.	Inch Range	Shank mm
04216-01	.019 – .039"	0.5–1
04216-01.5	.039 – .059"	1.0–1.5
04216-02	.039 – .079"	1–2
04216-02.5	.059 – .098"	1.5–2.5
04216-03	.079 – .118"	2–3
04216-03.5	.098 – .137"	2.5–3.5
04216-04	.118 – .157"	3–4
04216-04.5	.137 – .177"	3.5–4.5
04216-05	.157 – .197"	4–5
04216-05.5	.177 – .216"	4.5–5.5
04216-06	.197 – .236"	5–6
04216-06.5	.216 – .255"	5.5–6.5
04216-07	.236 – .276"	6–7
04216-07.5	.255 – .295"	6.5–7.5
04216-08	.276 – .315"	7–8
04216-08.5	.295 – .334"	7.5–8.5
04216-09	.315 – .354"	8–9
04216-09.5	.334 – .374"	8.5–9.5
04216-10	.354 – .394"	9–10
04216-10.5	.374 – .413"	9.5–10.5

ER20 Precision Metric Collets

Part No.	Inch Range	Shank mm
04220-01	.019 – .039"	0.5–1
04220-01.5	.039 – .059"	1.0–1.5
04220-02	.039 – .079"	1–2
04220-02.5	.059 – .098"	1.5–2.5
04220-03	.079 – .118"	2–3
04220-03.5	.098 – .137"	2.5–3.5
04220-04	.118 – .157"	3–4
04220-04.5	.137 – .177"	3.5–4.5
04220-05	.157 – .197"	4–5
04220-05.5	.177 – .216"	4.5–5.5
04220-06	.197 – .236"	5–6
04220-06.5	.216 – .255"	5.5–6.5
04220-07	.236 – .276"	6–7
04220-07.5	.255 – .295"	6.5–7.5
04220-08	.276 – .315"	7–8
04220-08.5	.295 – .334"	7.5–8.5
04220-09	.315 – .354"	8–9
04220-09.5	.334 – .374"	8.5–9.5
04220-10	.354 – .394"	9–10
04220-10.5	.374 – .413"	9.5–10.5
04220-11	.394 – .433"	10–11
04220-11.5	.413 – .452"	10.5–11.5
04220-12	.433 – .472"	11–12
04220-12.5	.452" – .492"	11.5–12.5
04220-13	.472 – .512"	12–13
04220-13.5	.492 – .531"	12.5–13.5
04220-14	.512 – .551"	13–14

Metric Size Precision ER Collets

ER25 Precision Metric Collets

Part No.	Inch Range	Shank mm
04225-02	.039 – .079"	1–2
04225-02.5	.059 – .098"	1.5–2.5
04225-03	.079 – .118"	2–3
04225-03.5	.098 – .137"	2.5–3.5
04225-04	.118 – .157"	3–4
04225-05	.157 – .197"	4–5
04225-06	.197 – .236"	5–6
04225-07	.236 – .276"	6–7
04225-08	.276 – .315"	7–8
04225-09	.315 – .354"	8–9
04225-10	.354 – .394"	9–10
04225-11	.394 – .433"	10–11
04225-12	.433 – .472"	11–12
04225-13	.472 – .512"	12–13
04225-14	.512 – .551"	13–14
04225-15	.551 – .591"	14–15
04225-16	.591 – .630"	15–16
04225-17	.630 – .669"	16–17

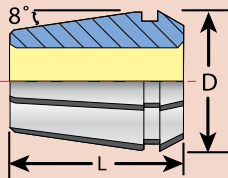
ER32 Precision Metric Collets

Part No.	Inch Range	Shank mm
04232-03	.079 – .118"	2–3
04232-03.5	.098 – .137"	2.5–3.5
04232-04	.118 – .157"	3–4
04232-04.5	.137 – .177"	3.5–4.5
04232-05	.157 – .197"	4–5
04232-05.5	.177 – .216"	4.5–5.5
04232-06	.197 – .236"	5–6
04232-06.5	.216 – .255"	5.5–6.5
04232-07	.236 – .276"	6–7
04232-07.5	.255 – .295"	6.5–7.5
04232-08	.276 – .315"	7–8
04232-08.5	.295 – .334"	7.5–8.5
04232-09	.315 – .354"	8–9
04232-09.5	.334 – .374"	8.5–9.5
04232-10	.354 – .394"	9–10
04232-10.5	.374 – .413"	9.5–10.5
04232-11	.394 – .433"	10–11
04232-11.5	.413 – .452"	10.5–11.5
04232-12	.433 – .472"	11–12
04232-12.5	.452 – .492"	11.5–12.5
04232-13	.472 – .512"	12–13
04232-13.5	.492 – .531"	12.5–13.5
04232-14	.512 – .551"	13–14
04232-14.5	.531 – .570"	13.5–14.5
04232-15	.551 – .591"	14–15
04232-15.5	.570 – .610"	14.5–15.5
04232-16	.591 – .630"	15–16
04232-16.5	.610 – .649"	15.5–16.5
04232-17	.630 – .669"	16–17
04232-17.5	.649 – .688"	16.5–17.5
04232-18	.669 – .709"	17–18
04232-18.5	.688 – .728"	17.5–18.5
04232-19	.709 – .748"	18–19
04232-19.5	.728 – .767"	18.5–19.5
04232-20	.748 – .787"	19–20
04232-21	.787 – .827"	20–21

ER40 Precision Metric Collets

Part No.	Inch Range	Shank mm
04240-04	.118 – .157"	3–4
04240-05	.157 – .197"	4–5
04240-06	.197 – .236"	5–6
04240-07	.236 – .276"	6–7
04240-08	.276 – .315"	7–8
04240-09	.315 – .354"	8–9
04240-10	.354 – .394"	9–10
04240-11	.394 – .433"	10–11
04240-12	.433 – .472"	11–12
04240-13	.472 – .512"	12–13
04240-14	.512 – .551"	13–14
04240-15	.551 – .591"	14–15
04240-16	.591 – .630"	15–16
04240-17	.630 – .669"	16–17
04240-18	.669 – .709"	17–18
04240-19	.709 – .748"	18–19
04240-20	.748 – .787"	19–20
04240-21	.787 – .827"	20–21
04240-22	.827 – .866"	21–22
04240-23	.866 – .906"	22–23
04240-24	.906 – .945"	23–24
04240-25	.945 – .984"	24–25
04240-26	.984 – 1.024"	25–26

Use the table (below) for selecting your replacement collets. ER collets all have unique length and diameter measurements.



Size	L	D
ER8	13mm (.51")	8.5mm (.33")
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	60mm (2.36")	52mm (2.05")

ER50 Precision Metric Collets

Part No.	Inch Range	Shank mm
04250-06	.197 – .236"	5–6
04250-07	.236 – .276"	6–7
04250-08	.276 – .315"	7–8
04250-09	.315 – .354"	8–9
04250-10	.354 – .394"	9–10
04250-12	.394 – .472"	10–12
04250-14	.472 – .551"	12–14
04250-16	.551 – .630"	14–16
04250-18	.630 – .709"	16–18
04250-20	.709 – .787"	18–20
04250-22	.787 – .866"	20–22
04250-24	.866 – .945"	22–24
04250-26	.945 – 1.024"	24–26
04250-28	1.024 – 1.102"	26–28
04250-30	1.102 – 1.181"	28–30
04250-32	1.181 – 1.259"	30–32
04250-34	1.259 – 1.338"	32–34

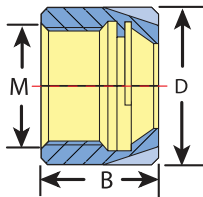
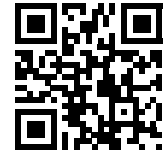
PowerCOAT ER Collet Nuts & Dust Seal Nuts



- 40% more holding power = Greater rigidity (accuracy)
- Less runout (T.I.R.) better balance (up to 70,000 RPMs)
- Cost less than bearing nuts



Scan the QR code to see how PowerCOAT nuts hold tighter to improve CNC router performance and shop safety. Or, enter this url: http://delivr.com/1hsm1_qr



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.

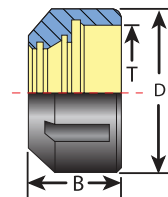
PowerCOAT Ultra High-Speed ER Nuts

Dimensions are in millimeters.

Part No.	Description	D	B	M	Max. Speed	Wrench	Recommended Torque
46111	ER RH 11 B Nut	19	11.8	M14 x 0.75	70,000	04608	20 ft/lbs
46116	ER RH 16 B Nut	32	18.0	M22 x 1.5	65,000	04613	42 ft/lbs
46120	ER RH 20 B Nut	35	19.5	M25 x 1.5	60,000	04614	59 ft/lbs
46125	ER RH 25 B Nut	42	20.5	M32 x 1.5	55,000	04615	77 ft/lbs
46132	ER RH 32 B Nut	50	23.0	M40 x 1.5	50,000	04616	100 ft/lbs
46140	ER RH 40 B Nut	63	26.0	M50 x 1.5	40,000	04617	130 ft/lbs



- 40% more holding power than bearing nuts!
- Extends collet life and accuracy
- Cost less than bearing nuts



Use these nuts with a dust seal that snaps into the nut to seal and protect your collets and cutting tools. Match the ER collet size and shank size to the dust seal specifications. (see page 22) Each dust seal has a .020" range.

PowerCOAT ER Dust Seal Nuts

Part No.	Description	D	B	Wrench	T	Recommended Torque
41616	ER16 HS Internal Dust Seal Coated Nut	32	22.5	04613	M22 x 1.5	42 ft/lbs
41620	ER20 HS Internal Dust Seal Coated Nut	35	24	04614	M25 x 1.5	59 ft/lbs
41625	ER25 HS Internal Dust Seal Coated Nut	42	25	04615	M32 x 1.5	77 ft/lbs
41632	ER32 HS Internal Dust Seal Coated Nut	50	27.5	04616	M40 x 1.5	100 ft/lbs
41640	ER40 HS Internal Dust Seal Coated Nut	63	30.7	04617	M50 x 1.5	130 ft/lbs

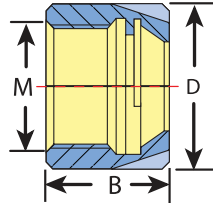
PowerCOAT Mini Nuts & Bearing Nuts



These nuts use a special wrench to torque down the nut. Do not over tighten these nuts.

- *Balanced 20,000 RPM at G 2.5*
- *Narrow nose diameter*
- *Left hand nut available*

Use ER High Speed mini nuts for applications where speed exceeds 10,000 RPMs. They are balanced to G2.5 for 20,000 RPMs. For collet holders and multi-spindle heads where center or shoulder distances are important.



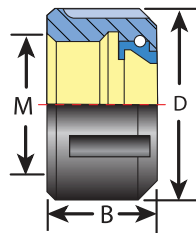
Dimensions are in millimeters.

ER High Speed Mini Nuts

Part No.	Description	D	B	M	Wrench	Recommended Torque
33108	ER8 HS Mini Nut	12	11	M10 x 0.75	04620	7 ft/lbs
33111	ER11 HS Mini Nut	16	12	M13 x 0.75	04621	12 ft/lbs
33116	ER16 HS Mini Nut	22	18	M19 x 1.0	04622	20 ft/lbs
33120	ER20 HS Mini Nut	28	19.5	M24 x 1.0	04623	22 ft/lbs
33125	ER25 HS Mini Nut	35	21	M30 x 1.0	04624	26 ft/lbs
33125-L	ER25 HS L-Hand Nut	35	21	M30 x 1.0	04624	26 ft/lbs



- *Bearings reduce friction between collet and nut*
- *Holds 40% tighter than standard bearing nuts*
- *Helps prolong cutter life*



Dimensions are in millimeters.

PowerCOAT ER Bearing Nuts

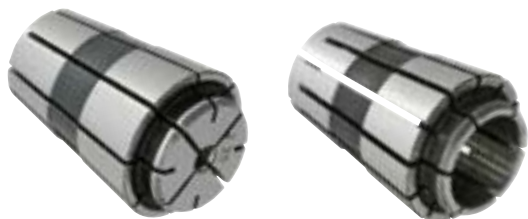
Part No.	Description	D	B	M	Wrench	Recommended Torque
29116	ER16 Bearing Nut	27.5	18	M22 x 1.5	04609	42 ft/lbs
29132	ER32 HS Bearing Nut	50	25	M40 x 1.5	04616	100 ft/lbs

Use these nuts for spindle speeds below 18,000 RPMs



All Techniks products are backed by our 100% satisfaction guarantee!

DNA – Dead Nuts Accurate Collets



- *.0002" T.I.R. extends cutting tool life!*
- *More rigid, more accurate, higher holding power than standard ER collets*
- *Works with ER holders & extensions*

If you are experiencing poor cutting tool life at small shank sizes, it may be because the standard ER collet is not providing enough holding power on the small shank to maintain T.I.R. while cutting, causing premature tool wear. DNA collets provided greater accuracy and rigidity for small shank tools.



Use DNA collets with standard ER holders and extensions.

DNA 16 Dead Nuts Accurate Collets

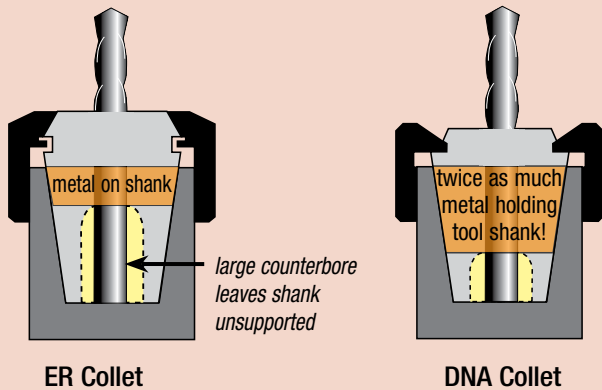
Part No.	Shank Size inch/mm	Range inch/mm
05954-0.3	.2 - .3mm	.007" - .011" / .10mm
05954-0.4	1/64" / .3 - .4mm	.011" - .015" / .10mm
05954-0.5	.4 - .5mm	.015" - .019" / .10mm
05954-0.6	.5 - .6mm	.019" - .023" / .10mm
05954-0.8	1/32" / .7 - .8mm	.027" - .031" / .10mm
05954-1.0	.9 - 1.0mm	.035" - .039" / .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" / .25mm
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

DNA 11 Dead Nuts Accurate Collets

Part No.	Shank Size inch/mm	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"	
2011.0000C	DNA 11 dust seal nut for 1/8" and 3mm	
DNA11W	DNA 11 collet wrench	
DNA11TWA	DNA 11 torque wrench adapter	

Use DNA Collets For Extended Cutting Tool Life

DNA (Dead Nuts Accurate) Collets



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



DNA 16 Nuts, Sealed Nuts, Wrenches and TWAs

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
27216	M22 x 1.5 nut* 1/8" o-ring
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 Dead Nuts Accurate Collets

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" x O.D. 32mm	
2020.0000C	DNA 20 dust seal nut, uses dust seals on page 22	
DNA20W	DNA 20 collet wrench	
DNA20TWA	DNA 20 torque wrench adapter	

DNA 32 Dead Nuts Accurate Collets

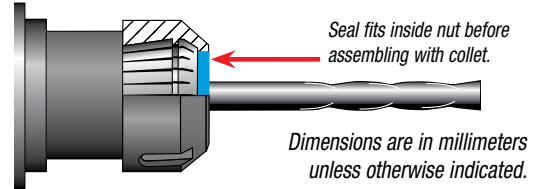
Part No.	Shank Size inch/mm	Range inch/mm
05958-03	2.5 - 3mm	.098" - .118" / .5mm
05958-3.5	1/8" / 3 - 3.5mm	.118" - .138" / .5mm
05958-04	5/32" / 3.5 - 4mm	.137" - .157" / .5mm
05958-05	3/16" / 4 - 5mm	.157" - .197" / 1.0mm
05958-06	7/32" 5 - 6mm	.197" - .236" / 1.0mm
05958-1/8	exact size collet: 1/8"	.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"	.5"
05958-3/4	exact size collet: 3/4"	.75"
05958-13	exact size collet: 13mm	13mm
05958-20	exact size collet: 20mm	20mm
1132.0000	DNA 32 nut, M40 x 1.5" x O.D. 47.5mm	
1132.0000C	DNA 32 dust seal nut, uses dust seals on page 22	
DNA32W	DNA 32 collet wrench	
DNA32TWA	DNA 32 torque wrench adapter	

Internal Dust Seals for ER16 to ER40 Collets



Internal Dust Seals

- Eliminates cleaning collets!
- Extends the life of your collets
- Use with Dust Seal Nuts (pg. 18)



ER16	ER20	ER25	ER32	ER40	Metric Shank	Inch Shank
08516 - 03.5	08520 - 03.5	08525 - 03.5	08532 - 03.5	08540 - 03.5	3.5 - 3.0	1/8"
08516 - 04.0	08520 - 04.0	08525 - 04.0	08532 - 04.0	08540 - 04.0	4.0 - 3.5	5/32"
08516 - 04.5	08520 - 04.5	08525 - 04.5	08532 - 04.5	08540 - 04.5	4.5 - 4.0	11/64"
08516 - 05.0	08520 - 05.0	08525 - 05.0	08532 - 05.0	08540 - 05.0	5.0 - 4.5	3/16"
08516 - 05.5	08520 - 05.5	08525 - 05.5	08532 - 05.5	08540 - 05.5	5.5 - 5.0	13/64"
08516 - 06.0	08520 - 06.0	08525 - 06.0	08532 - 06.0	08540 - 06.0	6.0 - 5.5	7/32"
08516 - 06.5	08520 - 06.5	08525 - 06.5	08532 - 06.5	08540 - 06.5	6.5 - 6.0	1/4"
08516 - 07.0	08520 - 07.0	08525 - 07.0	08532 - 07.0	08540 - 07.0	7.0 - 6.5	17/64"
08516 - 07.5	08520 - 07.5	08525 - 07.5	08532 - 07.5	08540 - 07.5	7.5 - 7.0	9/32"
08516 - 08.0	08520 - 08.0	08525 - 08.0	08532 - 08.0	08540 - 08.0	8.0 - 7.5	5/16"
08516 - 08.5	08520 - 08.5	08525 - 08.5	08532 - 08.5	08540 - 08.5	8.5 - 8.0	21/64"
08516 - 09.0	08520 - 09.0	08525 - 09.0	08532 - 09.0	08540 - 09.0	9.0 - 8.5	11/32"
08516 - 09.5	08520 - 09.5	08525 - 09.5	08532 - 09.5	08540 - 09.5	9.5 - 9.0	3/8"
08516 - 10.0	08520 - 10.0	08525 - 10.0	08532 - 10.0	08540 - 10.0	10.0 - 9.5	25/64"
	08520 - 10.5	08525 - 10.5	08532 - 10.5	08540 - 10.5	10.5 - 10.0	13/32"
	08520 - 11.0	08525 - 11.0	08532 - 11.0	08540 - 11.0	11.0 - 10.5	27/64"
	08520 - 11.5	08525 - 11.5	08532 - 11.5	08540 - 11.5	11.5 - 11.0	7/16"
	08520 - 12.0	08525 - 12.0	08532 - 12.0	08540 - 12.0	12.0 - 11.5	15/32"
	08520 - 12.5	08525 - 12.5	08532 - 12.5	08540 - 12.5	12.5 - 12.0	31/64"
	08520 - 13.0	08525 - 13.0	08532 - 13.0	08540 - 13.0	13.0 - 12.5	1/2"
		08525 - 13.5	08532 - 13.5	08540 - 13.5	13.5 - 13.0	17/32"
		08525 - 14.0	08532 - 14.0	08540 - 14.0	14.0 - 13.5	35/64"
		08525 - 14.5	08532 - 14.5	08540 - 14.5	14.5 - 14.0	9/16"
		08525 - 15.0	08532 - 15.0	08540 - 15.0	15.0 - 14.5	37/64"
		08525 - 15.5	08532 - 15.5	08540 - 15.5	15.5 - 15.0	19/32"
		08525 - 16.0	08532 - 16.0	08540 - 16.0	16.0 - 15.5	5/8"
			08532 - 16.5	08540 - 16.5	16.5 - 16.0	41/64"
			08532 - 17.0	08540 - 17.0	17.0 - 16.5	21/32"
			08532 - 17.5	08540 - 17.5	17.5 - 17.0	11/16"
			08532 - 18.0	08540 - 18.0	18.0 - 17.5	45/64"
			08532 - 18.5	08540 - 18.5	18.5 - 18.0	23/32"
			08532 - 19.0	08540 - 19.0	19.0 - 18.5	3/4"
			08532 - 19.5	08540 - 19.5	19.5 - 19.0	49/64"
			08532 - 20.0	08540 - 20.0	20.0 - 19.5	25/32"
				08540 - 20.5	20.5 - 20.0	51/64"
				08540 - 21.0	21.0 - 20.5	13/16"
				08540 - 21.5	21.5 - 21.0	27/32"
				08540 - 22.0	22.0 - 21.5	55/64"
				08540 - 22.5	22.5 - 22.0	7/8"
				08540 - 23.0	23.0 - 22.5	29/32"
				08540 - 23.5	23.5 - 23.0	59/64"
				08540 - 24.0	24.0 - 23.5	15/16"
				08540 - 24.5	24.5 - 24.0	61/64"
				08540 - 25.0	25.0 - 24.5	31/32"
				08540 - 25.5	25.5 - 25.0	1"

External Dust Covers For Tool Shanks



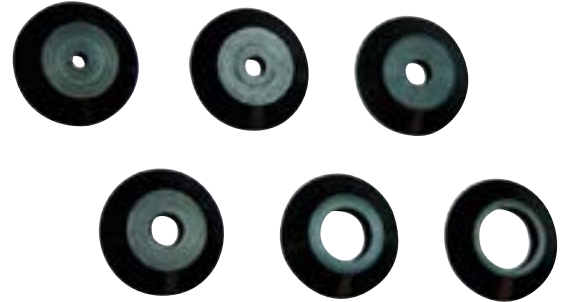
Simple and effective dust covers prevent costly failures and reduce downtime by keeping unwanted particles from entering the collet pocket where they can clog collets, hampering performance.

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

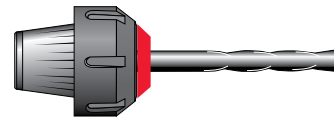


For 3/16" thru 3/4" tool shanks.
Works with: TG75, TG100, ER25, ER32, ER40, SYOZ25, SD-C015, SD-20MM
Do not slide dust cover over cutting edge of tool or you may damage the dust cover.

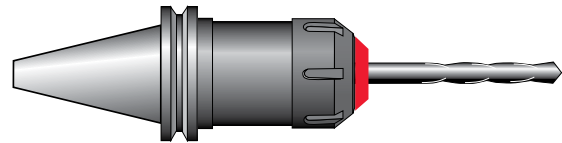
- Eliminates cleaning collets!
- Extends the life of your collets
- Extends tool life by maintaining T.I.R.



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

External Dust Covers

Part No.	Description
DC32-3/16	Dust cover for 3/16" tool shank
DC32-1/4	Dust cover for 1/4" tool shank
DC32-5/16	Dust cover for 5/16" tool shank
DC32-3/8	Dust cover for 3/8" tool shank
DC32-1/2	Dust cover for 1/2" tool shank
DC32-5/8	Dust cover for 5/8" tool shank
DC32-3/4	Dust cover for 3/4" tool shank

Dust Cover Sets

Part No.	Description
DC32-3/16-5	3/16" Dust Covers, 5 pieces
DC32-1/4-5	1/4" Dust Covers, 5 pieces
DC32-5/16-5	5/16" Dust Covers, 5 pieces
DC32-3/8-5	3/8" Dust Covers, 5 pieces
DC32-1/2-5	1/2" Dust Covers, 5 pieces
DC32-5/8-5	5/8" Dust Covers, 5 pieces
DC32-3/4-5	3/4" Dust Covers, 5 pieces
DC32-5D	1 each, 1/4", 3/8", 1/2", 5/8", 3/4"



All Techniks products are backed by our 100% satisfaction guarantee!

Precision TG75 Collets and PowerCOAT Nut

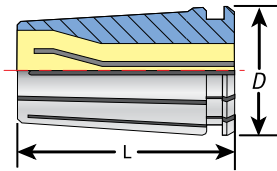


- .0004" T.I.R.
- Precision ground & hand inspected
- Clamping range: 1/64"



Dimensions

Series	L	A
TG75	1.844"	1.062"



TG75 Sets

Part No.	Pieces	ID Sizes
04008-43S	43	1/8" - 3/4" by 64ths
04008-22S	22	1/8" - 3/4" by 32nds
04008-11S	11	1/8" - 3/4" by 16ths

Order collet sets to ensure you always have the collets you need on hand.

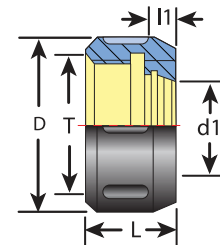
TG75 Collets

Part No.	Shank	Part No.	Shank	Part No.	Shank	Part No.	Shank
04008-3/32	3/32"	04008-17/64	17/64"	04008-7/16	7/16"	04008-39/64	39/64"
04008-7/64	7/64"	04008-9/32	9/32"	04008-29/64	29/64"	04008-5/8	5/8"
04008v-1/8	1/8"	04008-19/64	19/64"	04008-15/32	15/32"	04008-41/64	41/64"
04008-9/64	9/64"	04008-5/16	5/16"	04008-31/64	31/64"	04008-21/32	21/32"
04008-5/32	5/32"	04008-21/64	21/64"	04008-1/2	1/2"	04008-43/64	43/64"
04008-11/64	11/64"	04008-11/32	11/32"	04008-33/64	33/64"	04008-11/16	11/16"
04008-3/16	3/16"	04008-23/64	23/64"	04008-17/32	17/32"	04008-45/64	45/64"
04008-13/64	13/64"	04008-3/8	3/8"	04008-35/64	35/64"	04008-23/32	23/32"
04008-7/32	7/32"	04008-25/64	25/64"	04008-9/16	9/16"	04008-47/64	47/64"
04008-15/64	15/64"	04008-13/32	13/32"	04008-37/64	37/64"	04008-3/4	3/4"
04008-1/4	1/4"	04008-27/64	27/64"	04008-19/32	19/32"		



Features

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



TG75 PowerCOAT Collet Nut

Part No.	Description	D	d1	T	I1	L	Wrench	Recommended Torque
27500	TG75 Collet Nut	1.88"	-	1 1/2 - 12"	0.32"	0.94"	04018	85 ft/lb

Precision TG100 Collets and PowerCOAT Nuts

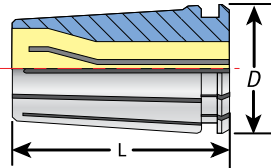


- .0004" T.I.R.
- Precision ground & hand inspected
- Clamping range: 1/64"



Dimensions

Series	L	A
TG100	2.375"	1.379"

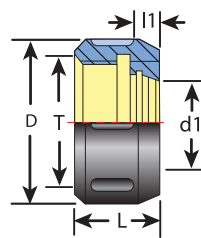


TG100 Sets

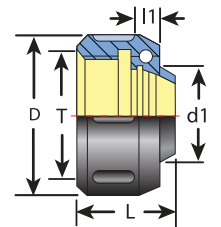
Part No.	Pcs.	ID Sizes
04010-59S	59	3/32 - 1" by 64ths
04010-41S	41	3/8 - 1" by 64ths
04010-30S	30	3/32 - 1" by 32nds
04010-21S	21	3/8 - 1" by 32nds
04010-15S	15	1/8 - 1" by 16ths

TG100 Collets

Part No.	Shank	Part No.	Shank	Part No.	Shank	Part No.	Shank
04010-3/32	3/32"	04010-21/64	21/64"	04010-9/16	9/16"	04010-51/64	51/64"
04010-7/64	7/64"	04010-11/32	11/32"	04010-37/64	37/64"	04010-13/16	13/16"
04010-1/8	1/8"	04010-23/64	23/64"	04010-19/32	19/32"	04010-53/64	53/64"
04010-9/64	9/64"	04010-3/8	3/8"	04010-39/64	39/64"	04010-27/32	27/32"
04010-5/32	5/32"	04010-25/64	25/64"	04010-5/8	5/8"	04010-55/64	55/64"
04010-11/64	11/64"	04010-13/32	13/32"	04010-41/64	41/64"	04010-7/8	7/8"
04010-3/16	3/16"	04010-27/64	27/64"	04010-21/32	21/32"	04010-57/64	57/64"
04010-13/64	13/64"	04010-7/16	7/16"	04010-43/64	43/64"	04010-29/32	29/32"
04010-7/32	7/32"	04010-29/64	29/64"	04010-11/16	11/16"	04010-59/64	59/64"
04010-15/64	15/64"	04010-15/32	15/32"	04010-45/64	45/64"	04010-15/16	15/16"
04010-1/4	1/4"	04010-31/64	31/64"	04010-23/32	23/32"	04010-61/64	61/64"
04010-17/64	17/64"	04010-1/2	1/2"	04010-47/64	47/64"	04010-31/32	31/32"
04010-9/32	9/32"	04010-33/64	33/64"	04010-3/4	3/4"	04010-63/64	63/64"
04010-19/64	19/64"	04010-17/32	17/32"	04010-49/64	49/64"	04010-1	1.0"
04010-5/16	5/16"	04010-35/64	35/64"	04010-25/32	25/32"		



dust seal nut



Use the TG100 Dust Seal Nut with an ER32 dust seal that snaps into the nut to seal and protect your tools. The dust seals can be found on page 22.

TG100 PowerCOAT Nut and Dust Seal Nut

Part No.	Description	D	d1	T	l1	L	Spanner	Recommended Torque
28110	TG100 Collet Nut	2.35"	1.12"	1 7/8 - 12"	0.44"	1.18"	03691	85 ft/lb
28210	TG100 Dust Seal Nut	2.35"	0.95"	1 7/8 - 12"	0.44"	1.41"	03691	100 ft/lb



All Techniks products are backed by our 100% satisfaction guarantee!

Shoda Collets and Nuts



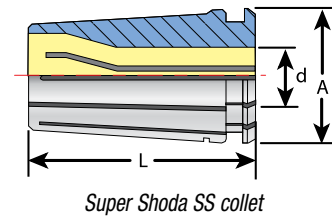
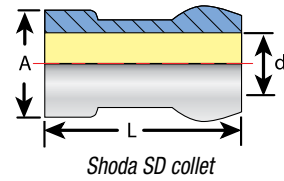
- Precision ground accuracy
- Heat-treated carbon steel
- Individually inspected

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 Collets

Dimensions are in millimeters unless otherwise indicated.

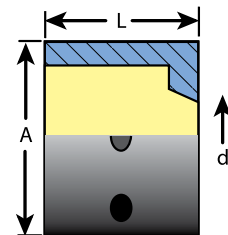
Part Number	Description	A	d	L
SD-20mm-.250	Shoda 20mm (old style) 1/4" collet	20	.250"	52
SD-20mm-.312	Shoda 20mm (old style) 5/16" collet	20	.312"	52
SD-20mm-.375	Shoda 20mm (old style) 3/8" collet	20	.375"	52
SD-20mm-.500	Shoda 20mm (old style) 1/2" collet	20	.500"	52
SD-20mm-.625	Shoda 20mm (old style) 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
SS-22-1/4	Super Shoda 1/4" collet	23	1/4"	40
SS-22-3/8	Super Shoda 3/8" collet	23	3/8"	40
SS-22-10	Super Shoda 10mm collet	23	10	40
SS-22-1/2	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



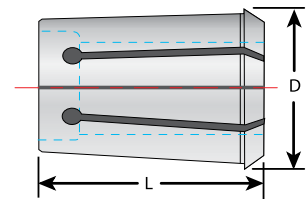
SYOZ / EOC Collets and Nuts for Perske Spindles



- Runout (T.I.R.) .0004"
- Collapse range: 1/64"
- Made to DIN 6388 standards

These collets conform to DIN 6388 specifications and are made from high-carbon bearing steel that is heat-treated for improved flexibility and longer life. Each collet is precisely ground and honed using a Swiss technique, then individually inspected and tested for quality.

Snap collet into the nut before screwing nut onto spindle or collet holder.



SYOZ and EOC Collets

EOC08	SYOZ20 / EOC12	EOC16	SYOZ25	Shank
83508-1/8	83520-1/8	83531-1/8	83868-1/8	1/8"
83508-3/16	83520-3/16	83531-3/16	83868-3/16	3/16"
83508-1/4	83520-1/4	83531-1/4	83868-1/4	1/4"
83508-5/16	83520-5/16	83531-5/16	83868-5/16	5/16"
	83520-3/8	83531-3/8	83868-3/8	3/8"
	83520-7/16	83531-7/16	83868-7/16	7/16"
	83520-1/2	83531-1/2	83868-1/2	1/2"
		83531-9/16	83868-9/16	9/16"
		83531-5/8	83868-5/8	5/8"
			83868-3/4	3/4"
			83868-7/8	7/8"
			83868-1	1"
	83512-10	83531-10	83868-10	10mm
		83531-16	83868-16	16mm
			83868-20	20mm
			83868-25	25mm

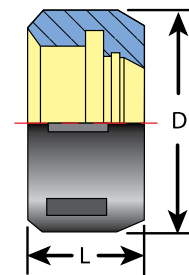
Dimensions

Collet Type	L	D
EOC 08	26mm	14.4mm
EOC 16	40mm	25.5mm
SYOZ 20	34mm	20mm
SYOZ25	52mm	35mm

SYOZ and EOC Nuts and Wrenches

Dimensions are in millimeters.

Part No.	Description	L	D	Wrench
83508-NUT	EOC08 PowerCOAT Nut	19	30	-
83636-NUT	EOC16 PowerCOAT Nut	24	43	-
83634	SYOZ20 / EOC12 PowerCOAT Nut	20	35	22220
83632	SYOZ25 PowerCOAT Nut	30	60	03691



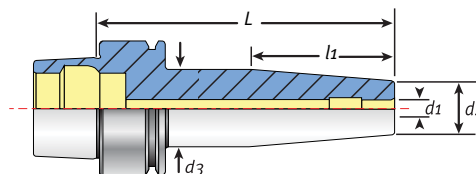
All Techniks products are backed by our 100% satisfaction guarantee!



HSK40E, HSK50E, ShrinkFIT Holders



- Superior rigidity increases tool-life
- Maximum T.I.R. only 0.0001"
- Balanced 25,000 RPM at G2.5



HSK40E Inch Size ShrinkFIT Holders

Part No.	Description	d1	d2	d3	l1	l2
39001-E	HSK40E x 1/8" I.D. - 3.54"	1/8"	.63	.87"	3.54"	.79"
39002-E	HSK40E x 3/16" I.D. - 3.54"	3/16"	.63"	.87"	3.54"	.79"
39004-E	HSK40E x 1/4" I.D. - 3.54"	1/4"	.71"	1.06"	3.54"	1.42"
39006-E	HSK40E x 5/16" I.D. - 3.54"	5/16"	.79"	1.06"	3.54"	1.42"
39008-E	HSK40E x 3/8" I.D. - 3.54"	3/8"	.94"	1.26"	3.54"	1.53"

HSK40E Metric Size ShrinkFIT Holders

Part No.	Description	d1	d2	d3	l1	l2
39082-E	HSK40E x 3mm I.D. - 80mm	3mm	10mm	18mm	80mm	18mm
39084-E	HSK40E x 4mm I.D. - 80mm	4mm	14mm	22mm	80mm	20mm
39088-E	HSK40E x 6mm I.D. - 80mm	6mm	21mm	27mm	80mm	36mm
39090-E	HSK40E x 8mm I.D. - 80mm	8mm	21mm	27mm	80mm	36mm
39092-E	HSK40E x 10mm I.D. - 80mm	10mm	24mm	32mm	85mm	42mm

HSK50E ShrinkFIT Holders

Part No.	Description	d1	d2	d3	l1	l2
39016-E	HSK50E x 3/16" I.D. - 3.54"	3/16"	.63"	.87"	3.54"	.79"
39018-E	HSK50E x 1/4" I.D. - 3.54"	1/4"	.71"	1.06"	3.54"	1.42"
39020-E	HSK50E x 5/16" I.D. - 3.54"	5/16"	.79"	1.06"	3.54"	1.42"
39022-E	HSK50E x 3/8" I.D. - 3.54"	3/8"	.94"	1.26"	3.54"	1.53"
39024-E	HSK50E x 1/2" I.D. - 3.54"	1/2"	1.10"	1.34"	3.54"	1.85"



- Smaller nose diameter (d2) than standard ShrinkFIT
- Maximum T.I.R. only 0.0001"
- Balanced 25,000 RPM at G2.5

Use SlimLINE holders when small nose diameter (d2) tooling is required.

HSK40E SlimLINE ShrinkFIT Holders

Part No.	Description	d1	d2	d3	l1	l2
99528	HSK40E x 1/8" I.D. - 80mm SlimLINE	1/8"	.44"	.63"	80mm	20mm
99538	HSK40E x 3/16" I.D. - 80mm SlimLINE	3/16"	.5"	.69"	80mm	20mm
99548	HSK40E x 1/4" I.D. - 80mm SlimLINE	1/4"	.56"	.81"	80mm	36mm
99568	HSK40E x 3/8" I.D. - 80mm SlimLINE	3/8"	.69"	.94"	80mm	47mm
99588	HSK40E x 1/2" I.D. - 80mm SlimLINE	1/2"	.81"	1.06"	80mm	47mm

HSK63F, BT30, ISO30 ShrinkFIT Holders



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



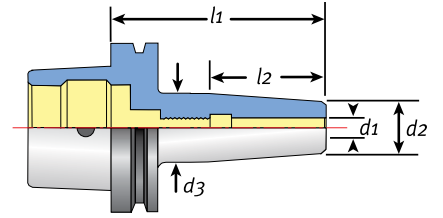
ShrinkFIT
Machines
pg. 30



Retention
Knobs
pg. 34



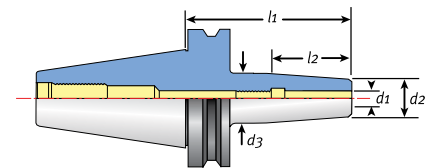
Setup
Equipment
pg. 38



Dimensions are in millimeters unless otherwise indicated.

HSK63F ShrinkFIT Toolholders

Part No.	Description	d1	d2	d3	l1	l2
71010	HSK63F x 20 - 100	20	33	42	100	52
71011	HSK63F x 25 - 115	25	44	53	115	63
71250	HSK63F x 1/4" - 80	1/4"	21	27	80	36
71375	HSK63F x 3/8" - 95	3/8"	24	32	95	42
71500	HSK63F x 1/2" - 95	1/2"	24	32	95	47
71750	HSK63F x 3/4" - 100	3/4"	33	42	100	52
71100	HSK63F x 1" - 115	1"	44	53	115	53

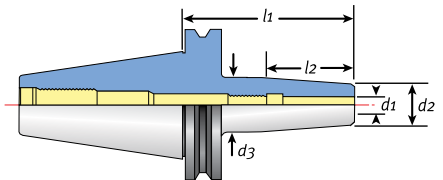


BT30 ShrinkFIT Holders – with drive slots

Part No.	Description	d1	d2	d3	l1	l2
67250	BT30 x 1/4" I.D. - 3"	1/4"	.71"	1.06"	3"	1.42"
67375	BT30 x 3/8" I.D. - 3"	3/8"	.78"	1.06"	3"	1.42"
67500	BT30 x 1/2" I.D. - 3"	1/2"	1.10"	1.34"	3"	1.85"
67625	BT30 x 5/8" I.D. - 3"	5/8"	1.26"	1.34"	3"	1.97"
67750	BT30 x 3/4" I.D. - 3"	3/4"	1.42"	1.15"	3"	2.04"



ShrinkFIT toolholders provide concentric clamping force of 10,000 lbs or more directly on the cutting tool shank to reduce T.I.R. (runout). This is why operators are able to run faster and cutters last longer too.



ISO30 ShrinkFIT Toolholders

Part No.	Description	d1	d2	d3	l1	l2
64250	ISO30 x 1/4" - 80	1/4"	18	27	80	39
64375	ISO30 x 3/8" - 80	3/8"	24	32	80	-
64500	ISO30 x 1/2" - 80	1/2"	28	32	80	25
64625	ISO30 x 5/8" - 80	5/8"	28	32	80	50
64750	ISO30 x 3/4" - 80	3/4"	36	41	80	-
64110	ISO30 x 1.0" - 4"	1.0"			4"	



All Techniks products are backed by our 100% satisfaction guarantee!

ShrinkSTATION – ShrinkFIT Machine

- Microprocessor controlled induction heat changes tools in 30 seconds
- Automatic cooling using shop air eliminates handling hot tools
- For carbide shank sizes 1/8" to 1-1/4" (works best with h6 shanks)
- The benefits of shrink-fit without the high cost!
- Optional heat sinks reduce cooling cycle time by 50% to only 90 seconds!



small footprint
17" wide, 18" deep, 31" tall

Includes everything shown

The ShrinkSTATION is our small footprint machine. It only requires 17" x 18" of bench space, so it's easy to add to your shop.

All controls are computerized and easy to use – simply align the induction head with your toolholder, enter your shank size, and press START.

"Never Down" Guarantee

We stand behind our products 100% and expect them to out-perform the competition. Purchase a Techniks ShrinkFIT 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.

ShrinkSTATION Machine Includes:

Part No.	Description	QTY.
00300-02-1	small induction head (3-16mm)	1
00300-02-2	large induction head (20-32mm)	1
00165	induction stop ring (3-5mm)	1
00166	induction stop ring (6-12mm)	1
00167	induction stop ring (14-20mm)	1
00168	induction stop ring (25-32mm)	1
00151	toolholder adapter - 30 taper	1
00152	toolholder adapter - 40 taper	1
00153	toolholder adapter - 50 taper	1
00157	toolholder adapter - HSK 40	1
00158	toolholder adapter - HSK 50	1
00159	toolholder adapter - HSK 63	1
00170	toolholder sleeve	1
200.001.018	thermal insulated glove	1

Part No.	Description	Tool Change	Rating	L x D x H	Ship Wt.
00320	ShrinkSTATION	30 seconds	1 phase, 220V, 20A	17"x 18"x 31"	42 lbs

For HSK 32 Toolholder Adapter order Part No. 00156 , For HSK 80 Toolholder Adapter order Part No. 00160.

ShrinkPRO – ShrinkFIT Machine



- *Microprocessor controlled induction heat changes tools in only 6 seconds*
- *Air cooled after heat cycle. 90 psi shop air required*
- *For carbide or HSS shank sizes 1/8" to 1-1/4" (works best with h6 shanks)*
- *Optional heat sinks (shown) reduce cooling cycle time by 50% to only 90 seconds!*
- *Full color screen*

All Techniks ShrinkFIT machines use shop air for cooling to eliminate the safety, maintenance, and reliability issues associated with water-cooled shrink fit machines.



Place heat sink over hot toolholder to reduce cooling time by 50%. Can be used with any ShrinkFIT machine to speed cooling process.

Included With ShrinkPRO Machine

Part No.	Description	QTY.	Part No.	Description	QTY.
00165	induction stop ring (3-5mm)	1	00153	toolholder adapter - 50 taper	1
00166	induction stop ring (6-12mm)	1	00157	toolholder adapter - HSK 40	1
00167	induction stop ring (14-20mm)	1	00158	toolholder adapter - HSK 50	1
00168	induction stop ring (25-32mm)	1	00159	toolholder adapter - HSK 63	1
00151	toolholder adapter - 30 taper	1	00170	toolholder sleeve	1
00152	toolholder adapter - 40 taper	1	200.001.018	thermal insulated glove	1

Heat Sinks

Part No.	Shank Range
00100-HS1	1/8" thru 1/4"
00100-HS2	1/4" thru 5/16"
00100-HS3	3/8" thru 5/8"
00100-HS4	5/8" thru 3/4"
00100-HS5	3/4" thru 1"
00100-HS6	1" thru 1 1/4"

For HSK 32 Adapter order Part No. 00156.

For HSK 80 Adapter order Part No. 00160.

Part No.	Description	Tool Change	Rating	L x D x H	Ship Wt.
00600	ShrinkPRO machine	6-9 seconds	3 phase, 480V, 30A	20"x 20"x 37"	84 lbs

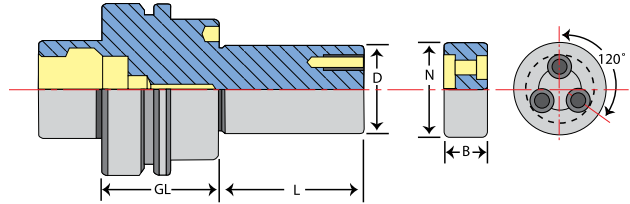


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HSK63F and ISO30 Moulder Head Arbors



- 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

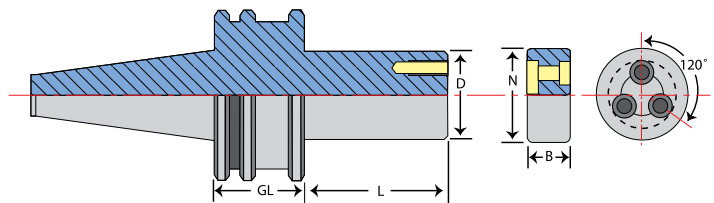
- Arbor nut with 3 tightening screws improves safety
- Taper ground to AT3 specification for accuracy



Retention
Knobs
pg. 34



Setup
Equipment
pg. 38



Dimensions are in millimeters unless otherwise indicated.

ISO30 Moulder Head Arbors

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.

Tool Holder Measuring Guide – Special Orders

Use this guide to help measure your tools to determine what you need to order, or for special order toolholders built to your specifications.

Make and model of CNC router _____

Pull Stud Dimensions

P = _____

A = _____

L = _____

R = _____

Toolholder Dimensions

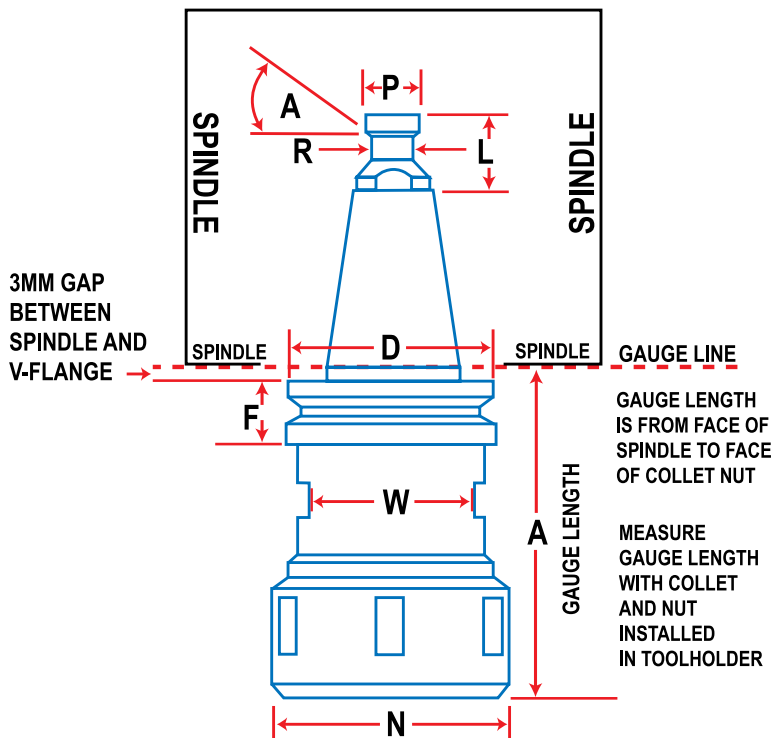
D = _____

F = _____

W = _____

A = _____

N = _____



Make and model of HSK spindle CNC Router _____

Toolholder Dimensions

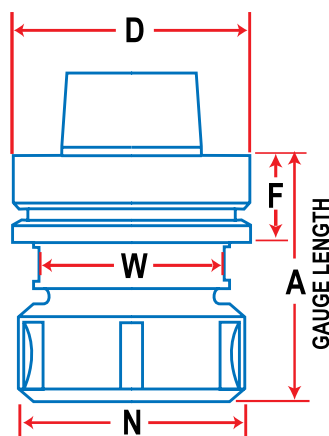
D = _____

F = _____

W = _____

A = _____

N = _____



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Retention Knobs for CNC Routers

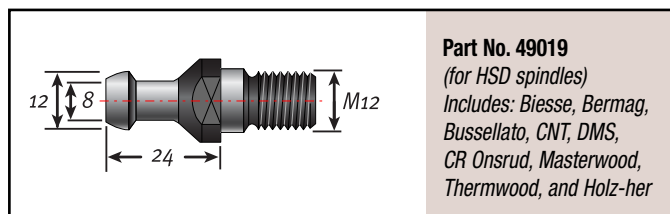


- All mating surfaces precision ground
- Manufactured to the highest standards for maximum safety and long life
- Hardened for maximum longevity

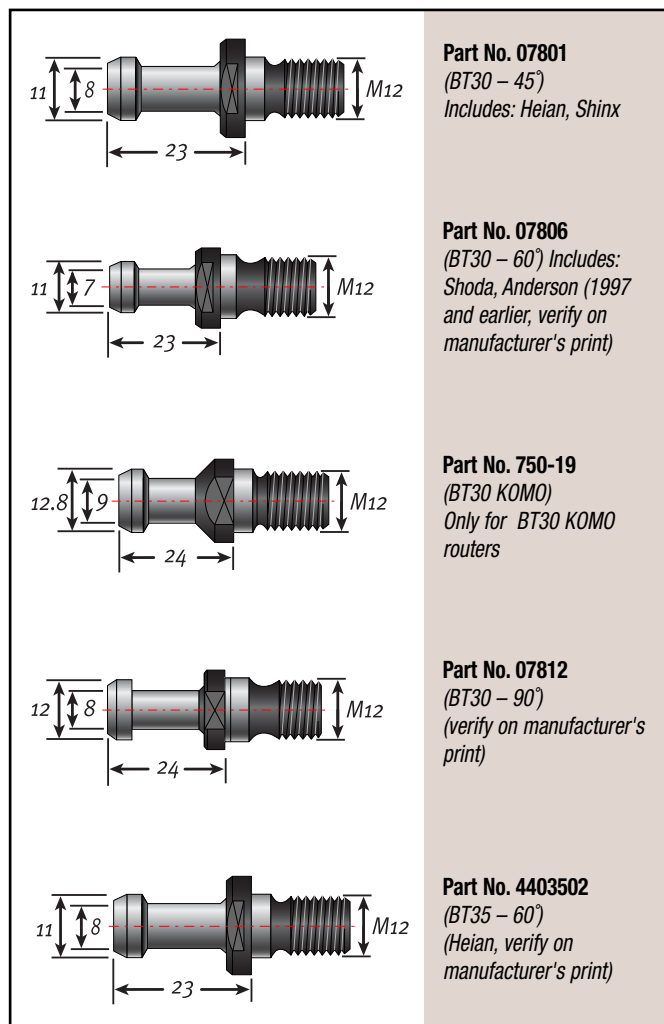
Match the dimensions and appearance of your retention knob to the drawings below. Use the manufacturer's print that came with your machine to verify your selection.

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.

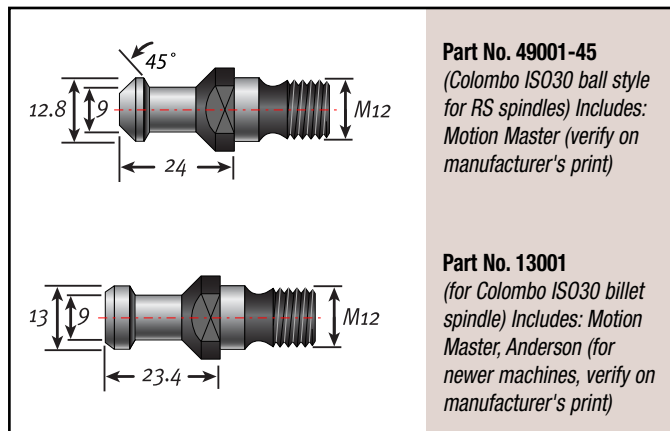
HSD Spindles



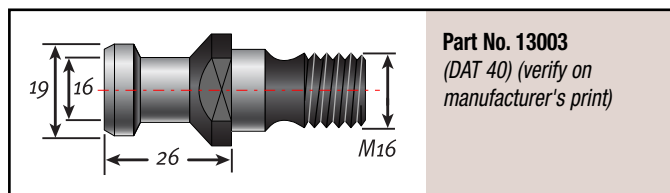
BT Spindles



ISO30 Spindles



DAT Spindles

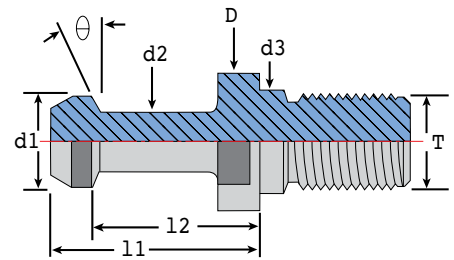


Special Order Retention Knobs & Collets

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	θ	T

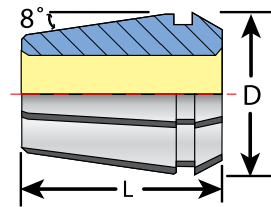
Special Order Collet Dimensions

Length _____	Diameter _____	Other Markings _____
Length _____	Diameter _____	Other Markings _____
Length _____	Diameter _____	Other Markings _____

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.

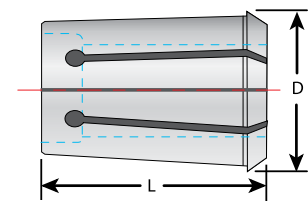
Standard Collet Dimensions

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")



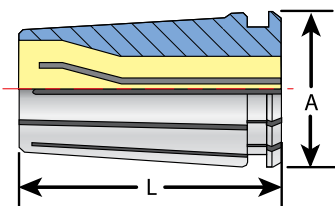
ER Collet Style

DIN 6388 Collet Style	Length	O.D. (diameter)
EOC 8	26mm (1.026")	14.4mm (0.567")
SYOZ20	34mm (1.34")	20mm (0.78")
RD020	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")
RD035	52mm (2.06")	35mm (1.38")
462E	52mm (2.06")	35mm (1.38")
EOC32	60mm (2.36")	43.7mm (1.72")



SYOZ Collet Style

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



TG Collet Style



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Type A, UM, RU, and M Hand Wrenches



DNA slotted wrench



ER hex wrench



ER slotted wrench

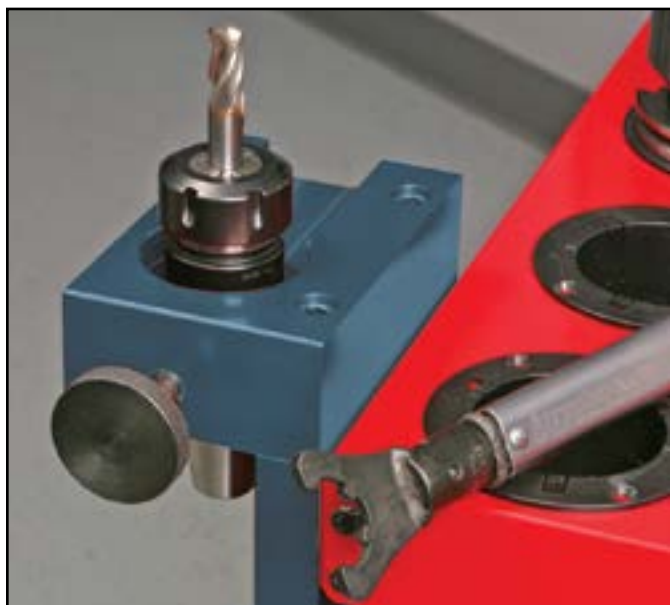


ER mini wrench



TG hook wrench

Note: 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 37 for tightening collet nuts. Do not overtighten nuts or you may damage the collet and/or toolholder.



Use a tightening fixture to secure the tool holder.

DNA Hand Wrenches

Part No.	Description	Nut Type
DNA11W	DNA 11 wrench	DNA-11 slotted
DNA16W	DNA 16 wrench	DNA-16 slotted
DNA20W	DNA 20 wrench	DNA-20 slotted
DNA32W	DNA 32 wrench	DNA-32 slotted
894-22	DNA mini nut wrench	hex

ER Hex Hand Wrenches

Part No.	Description	Nut Type
894-36	TE-Stubby wrench	TE Stubby
04608	ER11-A wrench	A (Hex)
04609	ER16-A wrench	A (Hex)
04610	ER20-A wrench	A (Hex)

ER Slotted Hand Wrenches

Part No.	Description	Nut Type
04613	ER16-E wrench	slotted
04614	ER20-E wrench	slotted
04615	ER25-E wrench	slotted
04616	ER32-E wrench	slotted
04617	ER40-E wrench	slotted
04618	ER50-E wrench	slotted

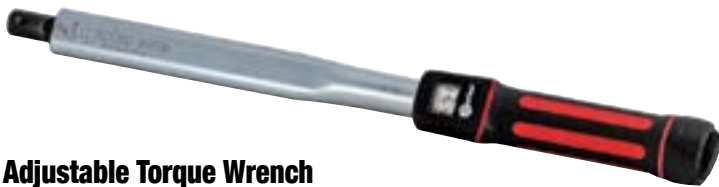
ER Mini Hand Wrenches

Part No.	Description	Nut Type
04620	ER8-M wrench	ER Mini
04621	ER11-M wrench	ER Mini
04622	ER16-M wrench	ER Mini
04623	ER20-M wrench	ER Mini
04624	ER25-M wrench	ER Mini

Hook Style TG Hand Wrenches

Part No.	Description	Nut Type
04018	TG75 wrench	TG75
03691	TG100 wrench	TG100
22220	SYOZ 20 wrench	SYOZ 20
01250-13S	Drill Chuck wrench	Chuck

Torque Wrenches and Adapters



- Get constant cutting tool performance
- Ensure proper tightening for best T.I.R.
- Prevent tool accidents

Adjustable Torque Wrench

Part No.	Torque Range	Length	Weight	Spigot
60 TH	5-45 ft/lbs	12"	1 lb.	16mm round
200 TH	30-150 ft/lbs	16.5"	1.75 lbs	16mm round
300 TH	45-228 ft/lbs	21.5"	2.5 lbs	16mm round



Set adjustable dial to the correct amount of torque and tighten nut until wrench "clicks".

Collet Keys For Adjustable Torque Wrench

Part No.	Collet Nut Size	Type	Recommended 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	26 ft/lbs
04580-16	ER16 Slotted	Slotted	42 ft/lbs
04601-16	ER16 Hex	Hex	42 ft/lbs
04580-20	ER20 Slotted	Slotted	59 ft/lbs
04602-20	ER20 Hex	Hex	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
03690-25	SYOZ25/TG100	Hook	90 ft/lbs
04018-TWA	TG75 Slotted	Hook	90 ft/lbs
DNA11TWA	DNA 11	Slotted	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	ER32 Slotted	Slotted	100 ft/lbs
SD-TWA	SYOZ-20	Hook	40 ft/lbs



ER25 Mini



DNA 16 Slotted



ER Slotted



Hex



TG Hook / SYOZ



04588-R

Retention Knob Sockets-Square Drive

Part No.	Taper or Holder	Flats	Drive	Recommended Torque
PSS - 30BT	BT30 Taper Retention Knob	0.535"	3/8"	36 ft/lbs
PSS - 30ISO	ISO30 Taper Retention Knob	0.535"	3/8"	36 ft/lbs
PSS - 40	All 40 Taper Retention Knobs	0.750"	3/8"	76 ft/lbs
PSC - 50	All 50 Taper Retention Knob	1.250"	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"



Square Drives



Retention Knob Sockets

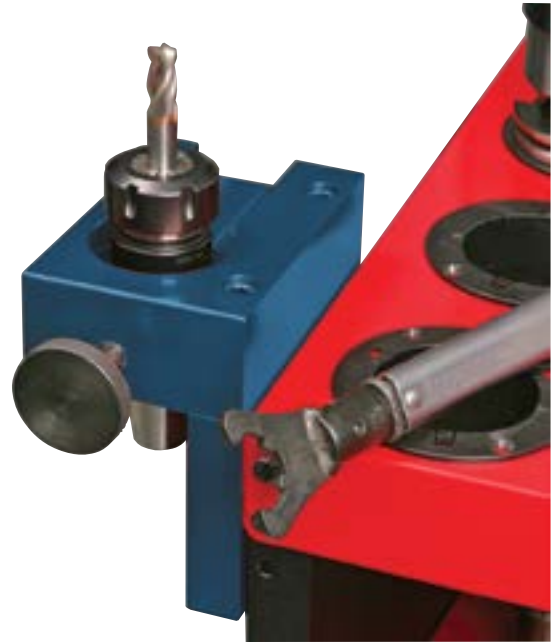


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Tightening Fixtures



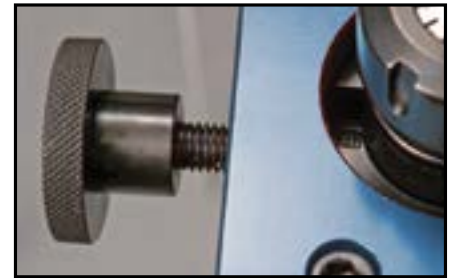
- For HSK, ISO, BT, CAT spindles
- Change Retention Knobs from underneath
- Bolts to side of workbench or tool cart



A sliding collar engages the wrench flats on HSK toolholders to allow tightening of collet nut.

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



A large set-screw engages the drive slot in ISO, BT, and CAT toolholders to securely hold the tool in the fixture.

Note: 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 37 for tightening collet nuts. Do not overtighten nuts or you may damage the collet and/or toolholder.

Preset Gauges – Spindle Wipers

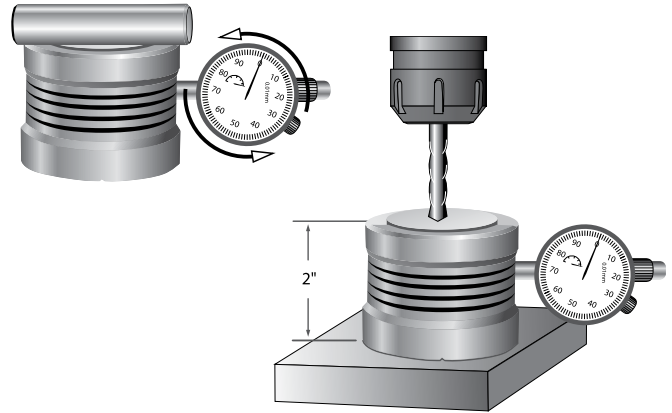


- Accuracy 0.0002"
- Easy to measure tool depth
- Height 50mm (2")

Save valuable machine time by using axial preset gauges to quickly set tool depth and increase accuracy.

Operation

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 50mm (2") above the workpiece.

Analog Axial Preset Gauge

Part No.	Description
17906-2	ZSI-50 Preset Gauge



- For CAT, BT, HSK spindles
- Remove contaminants to improve T.I.R.
- Keeps spindles and toolholders clean

Spindle Wipers

Dimensions are in millimeters.

Part No.	Taper	Total	Taper
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.



All Techniks products are backed by our 100% satisfaction guarantee!

Featured Technology – Aggregate Heads

Innovative Aggregates Speed Processing Operations

Aggregates Increase Productivity

We have made hundreds of different types of aggregates and can make practically any application specific aggregate you need.

Call us to discuss your application and find out if a standard aggregate head will meet your need, or if a custom solution is required.



variable angle routing, drilling, or sawing



3 inline outputs for boring



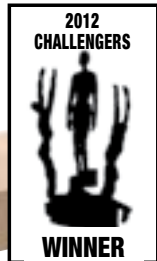
corner squaring



profiling aggregate



oscillating aggregate speeds mortising.



mortising chainsaw style



spindle speeder aggregate 36,000 RPM



combine sawing & drilling



multi-spindles speed processing



4 spindles for different tasks



grooving with a saw arbor

Unmatched For Quality and Reliability



Floating Aggregate with
Chip Guide System



variable angle sawing

Hand Built To Meet Your Needs

We promise

- unmatched reliability
- unmatched performance
- unmatched support

How you benefit

- increase productivity
- increased reliability
- reduced machine down-time



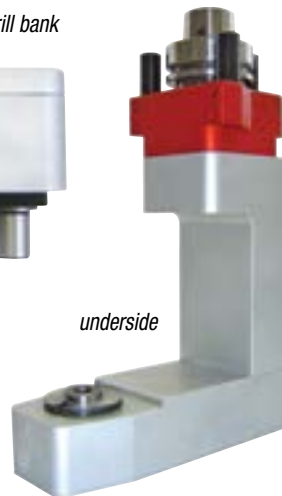
7 tool drill bank



lock recess



multiple outputs



underside

Only the very best components available 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 signs their name to the aggregate upon completion.

Our assembly process is a labor of love, but the end result is well worth the effort.



shaping with cutting knives



high-speed processing



cutting pocket with chainsaw



lock recess aggregate



All Techniks products are backed by our 100% satisfaction guarantee!

SmartLINE – FunctionLINE – UltraLINE

SmartLINE Aggregates



SmartLINE Aggregates are compact design, light weight aggregates that are great for smaller routers or where improved clearance or maneuverability is required. They are available in a variety of stock configurations and are grease lubricated like our FunctionLINE for standard-duty processing operations. *See page 44 for SmartLINE.*

FunctionLINE Aggregates



FunctionLINE Aggregates are the most versatile aggregates in our offering. They are available in a wide array of configurations, and can be purpose-built for almost any application specific operation. These aggregates are grease lubricated for continuous operation in standard duty applications. *See page 50 for FunctionLINE.*

UltraLINE Aggregates



UltraLINE Aggregates are oil bath lubricated for heavy-duty processing operations. We recommend the UltraLINE for sawing using blades larger than 7", V-grooving, heavy routing applications, cutting MDF, composite materials, or cutting aluminum. They are available in a variety of stock configurations. *See page 62 for UltraLINE.*



How To Order Aggregates

Call us at (800) 597-3921 to talk live with one of our application engineers who will help you determine the best aggregate for your requirements. Please specify the router manufacturer, the spindle type (HSK, ISO, BT, etc.), a description of your application, and the material being processed. We will make sure you get the right aggregate for your needs.

"Never Down" Guarantee

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

Replacement aggregate is on loan until original aggregate is repaired and back in service. Replacement aggregates are limited to standard configuration and subject to availability.

Special Promotion – Free ER Collet Set

We are **SO SURE** you are going to love our aggregate heads, that we are offering you a **FREE ER Collet Set** with any aggregate purchase!

FREE!



Over \$400 Value!

Why are we doing this?

Because we know that once you try Techniks aggregate heads, you will so pleased with our quality and performance that you will become a customer for life. And now, with our **NEVER DOWN** guarantee, we can guarantee your complete satisfaction!

Choose from hundreds of aggregate head solutions like this modular connection aggregate that provides more flexibility in tool selection.

Custom aggregates are included in this promotion!

Your choice of an ER32 or ER25 collet set with the purchase of any aggregate head! **Over \$400 value!**



All Techniks products are backed by our 100% satisfaction guarantee!

SmartLINE – Duo Aggregates



Specify your machine spindle when ordering.

SmartLINE Duo Compact Aggregate

Light weight design aggregate for standard-duty operations on smaller routers or where space is limited. Features include dual spindle outputs that are great for drilling and sawing applications.

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

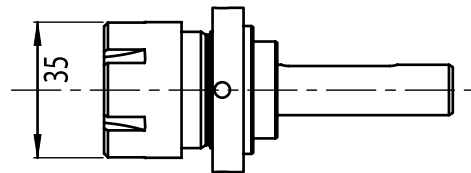
SmartLINE Duo Aggregates are one of our most popular choices because they can be configured with multiple ER25 outputs, a combination of ER and saw outputs, or even with two S1 saw outputs as needed.

All SmartLINE aggregate heads are individually hand-built just like our other aggregate lines. They offer full aggregate functionality for standard duty operations in a compact design for smaller routers. SmartLINE aggregates are grease lubricated and offer an excellent price-to-performance ratio.

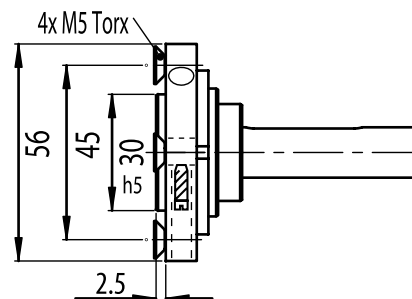
SmartLINE – Duo Aggregate

Spindle Speed Max.	8,000 RPM
Tool Speed Max.	12,000 RPM
Rotation	Aggregate can be rotated 360°
Lubrication	grease
Gear Ratio	1:1.48
Maximum Torque	12 ft/lbs
Output Directions	one output rotates same as machine spindle, one opposite
Maximum Temp.	185°F
Spindle Outputs*	M5, S1

SmartLINE Duo Output Options



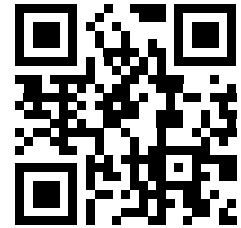
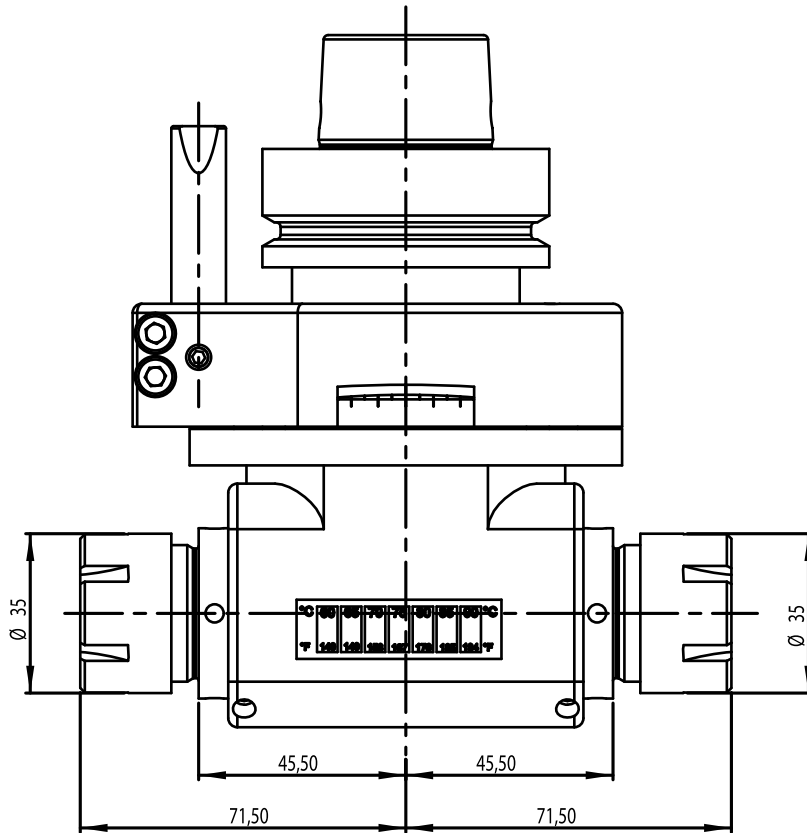
M5 - ER25 Collet and nut
Range: 1mm – 16mm



S1 - Saw Spindle, 45mm bolt circle
w/ 10 mm bore for router bit

Compact Design – Lighter Weight

SmartLINE Duo Dimensions (mm)



Scan the QR code or enter this url: <http://delivr.com/1hiv9> to learn more about egg heads.



Learn about our "Never Down" Guarantee – See page 42



processing plastic



saw and drill configuration



dual ER25 outputs



All Techniks products are backed by our 100% satisfaction guarantee!

SmartLINE – Vario and Viso Aggregates



Vario aggregate shown

Specify your machine spindle when ordering.

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.

SmartLINE – Vario and Viso Aggregates

Spindle Speed Max.	12,000 RPM
Tool Speed Max.	12,000 RPM
Lubrication	grease
Rotation	Aggregate can be rotated 360°
Gear Ratio	1:1
Swiveling Range	0° to 100°
Maximum Torque	3 ft/lbs
Spindle Direction	Same as machine spindle
Maximum Temp.	185°F
Spindle Outputs*	K1, K2

SmartLINE Vario and Viso Adjustable Angle

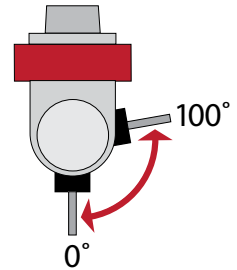
All the features of the FunctionLINE Vario, but compact-sized for applications where operating space or aggregate weight are a concern.

Features:

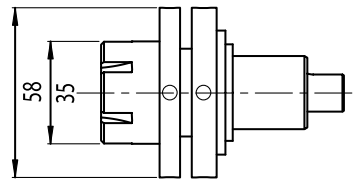
- Variable angle single output (0° - 100°)
- Viso features digital display for easy angle setting
- Output options: combination ER25 & saw blade or modular system

Includes:

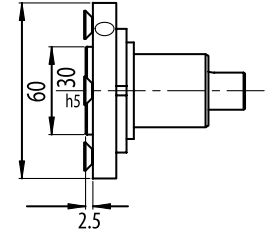
- Collet nut & wrenches
- ER collets sold separately



SmartLINE Vario or Viso Output Options

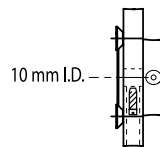


K1 - ER25 Collet and saw blade

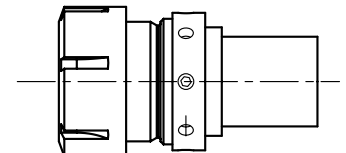


K2 - Saw blade with either 45mm or 52mm bolt circle

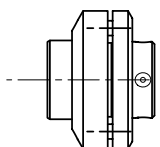
Modular Output Options (Viso Only)



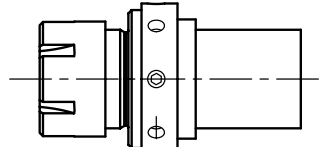
S1 - Modular Saw Spindle w/ 10 mm bore for router bit



R6 Modular - ER32



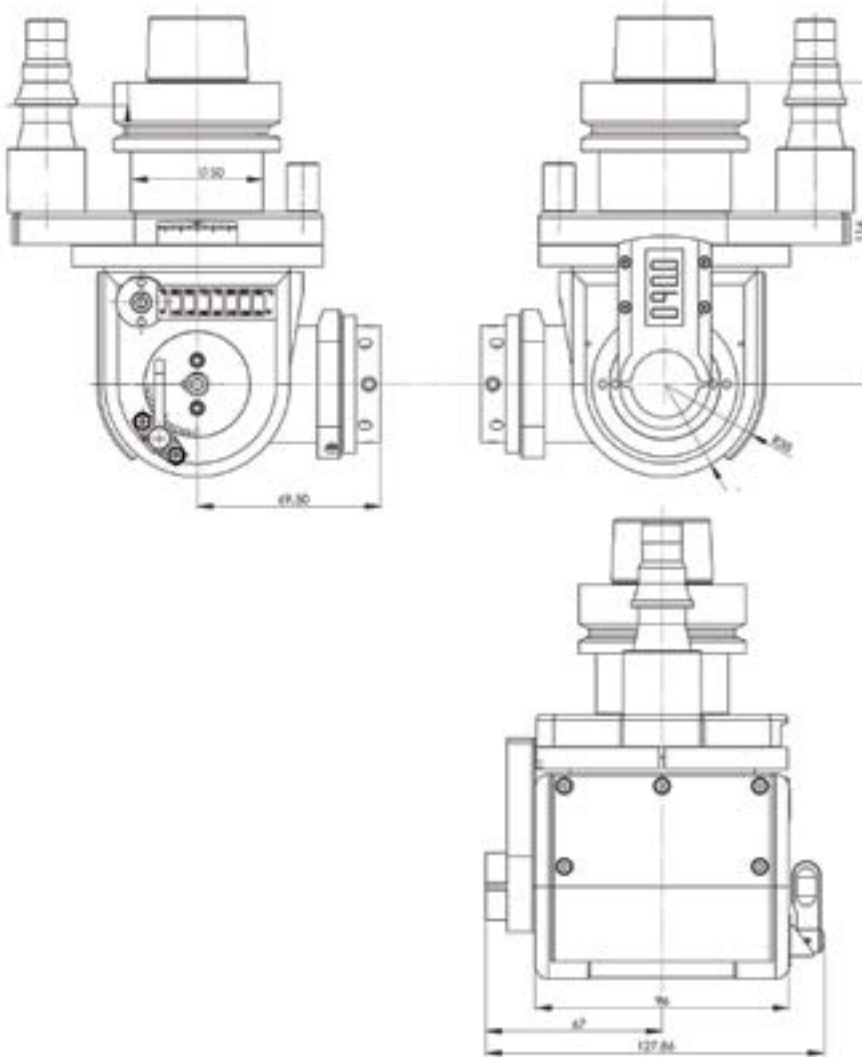
P1 - Modular Saw Arbor
Range: 1.5mm-4mm tool shank



M5 - Modular ER25

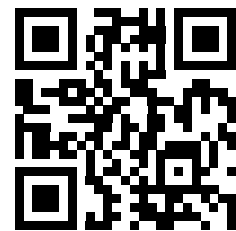
Compact Design – Lighter Weight

SmartLINE Vario and Viso Dimensions (mm)



Learn about our "Never Down" Guarantee – See page 42

Viso Digital Display Aggregate



Scan the QR code
or enter this url:
<http://delivr.com/1hlug> to learn
more about
Viso aggregate
heads



Vario sawing



adjusts angle as needed



Viso Digital Display

SmartLINE – Extra Lockset Recess Aggregate



Specify your machine spindle when ordering.

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 applications.

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

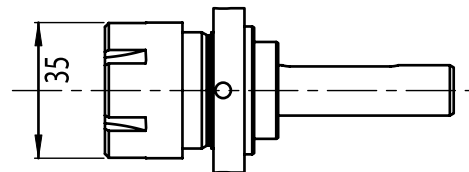
SmartLINE Aggregates are individually hand-built just like our other aggregate lines. They offer full aggregate functionality for standard duty operations in a compact design for smaller routers. SmartLINE aggregates are grease lubricated and offer an excellent price-to-performance ratio.

SmartLINE Lock Recess

Spindle Speed Max.	8,000 RPM
Tool Speed Max.	12,000 RPM
Lubrication	grease
Rotation	Aggregate can be rotated 360°
Gear Ratio	1:1.48
Maximum Torque	3 ft/lbs
Spindle Direction	Same as machine spindle
Maximum Temp.	185°F
Spindle Outputs*	M5



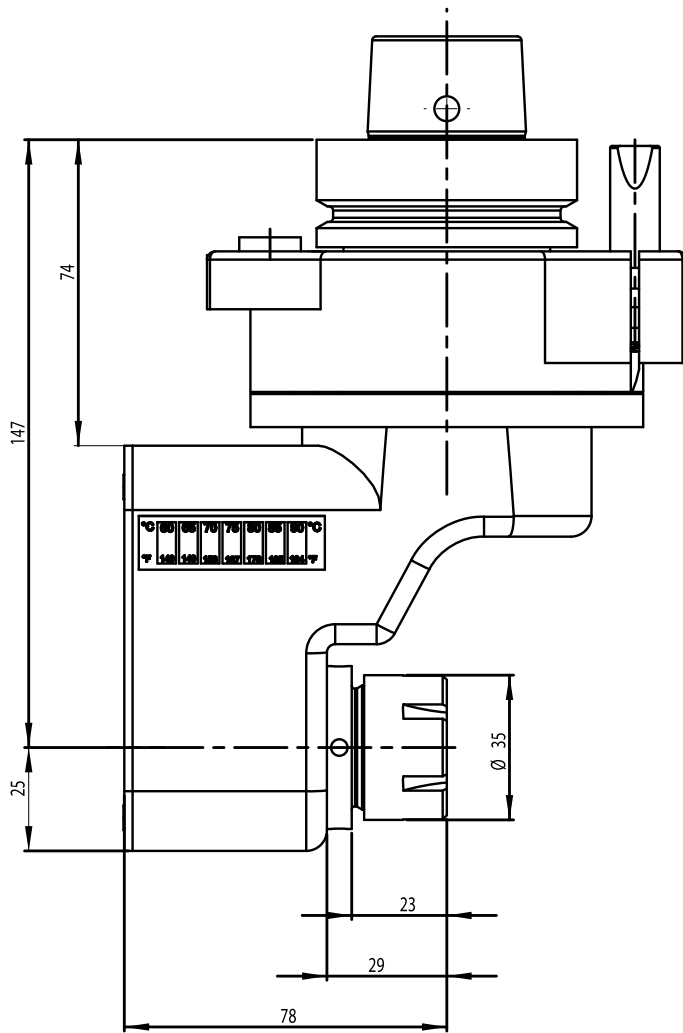
SmartLINE Extra Lockset Recess Output



M5 - ER25 Collet and nut
Range: 1mm - 16mm

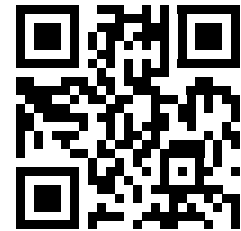
Compact Design – Lighter Weight

SmartLINE Extra Lockset Recess

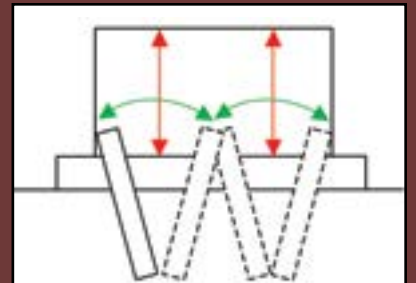


Learn about our "Never Down" Guarantee – See page 42

New! ExtraPLUS Aggregate



Scan the QR code or enter this url: <http://delivr.com/1hrj9> to learn more about ExtraPLUS.



Oscillating cutting path on ExtraPLUS aggregate cuts mortises 65% faster



Extra Lockset Recess Aggregate



Mortising a lockset recess



Extra Lockset Recess Aggregates



All Techniks products are backed by our 100% satisfaction guarantee!

FunctionLINE – Mono Aggregate



Specify your machine spindle when ordering

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.

All FunctionLINE aggregate heads are grease lubricated for standard duty operation. They provide the greatest number of configurations and application specific tool output options to increase CNC router productivity.

FunctionLINE – Mono Aggregate

Spindle Speed Max.	10,000 RPM
Tool Speed Max.	15,000 RPM
Rotation	aggregate can be rotated 360°
Lubrication	grease
Gear Ratio	1:1.48
Maximum Torque	15 ft/lbs
Spindle Direction	same as machine spindle
Maximum Temp.	185°F
Spindle Outputs*	M5, R6, S1, S2, Modular

FunctionLINE Mono Aggregate

An affordable way to add 4th axis capability to your CNC router. Perform routing, boring, mortising, and sawing operations faster to increase profits.

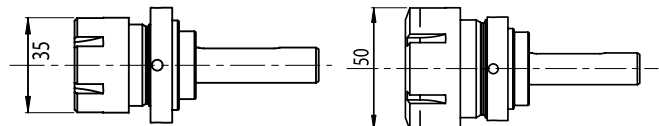
Features

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

Includes:

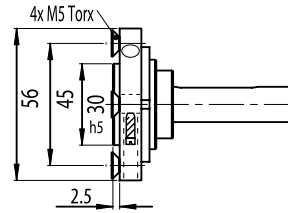
- Collet nut & wrenches
- ER collets sold separately

FunctionLINE Mono Output Options

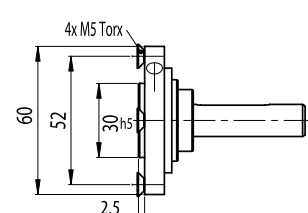


M5 - ER25 Collet, and nut
Range: 1mm – 16mm

R6 - ER32 Collet,
Range: 3mm – 20mm

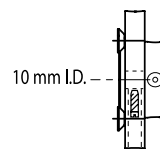


S1 - Saw Spindle, 45mm bolt circle
w/ 10 mm bore for router bit

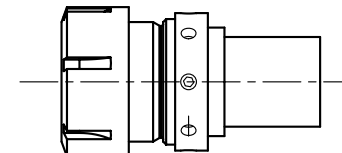


S2 - Saw, Spindle,
52mm bolt circle

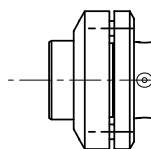
FunctionLINE Mono Modular System Options



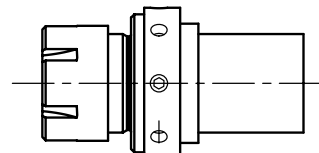
S1 - Modular Saw Spindle
w/ 10 mm bore for router bit



R6 Modular - ER32



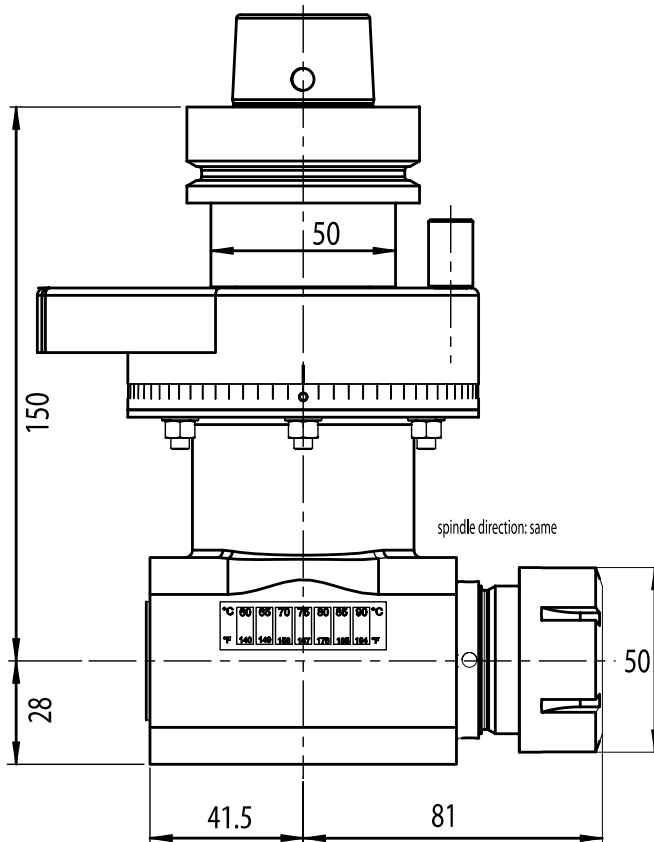
P1 - Modular Saw Arbor
Range: 1.5mm-4mm tool shank



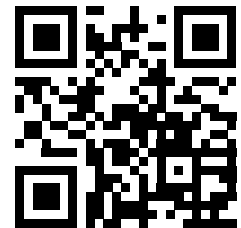
M5 - Modular ER25

Single Output 90° Aggregate

FunctionLINE Mono Dimensions (mm)



Aggregate Heads at Work



Scan the QR code or enter this url: <http://delivr.com/1hmzs> to see our agg heads in action.



Modular Ouptut Connection

Learn about our "Never Down" Guarantee – See page 42



Edge Routing



Sawing



Boring

FunctionLINE – Duo



Specify your machine spindle when ordering

FunctionLINE Duo Aggregate

Add 4th axis capability and reduce the need for additional tool changes. Perform routing, boring, mortising, and sawing operations faster to increase profits.

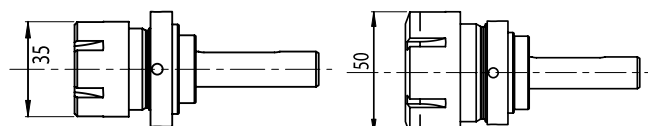
Features

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

Includes:

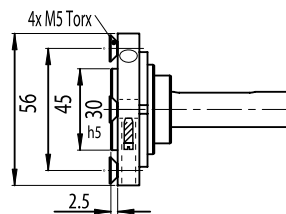
- Collet nuts & wrenches
- ER collets sold separately

FunctionLINE Duo Output Options

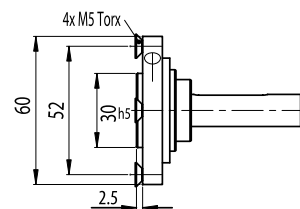


M5 - ER25 Collet, and nut
Range: 1mm – 16mm

R6 - ER32 Collet,
Range: 3mm – 20mm

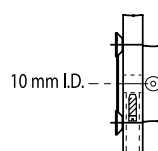


S1 - Saw Spindle, 45mm bolt circle
w/ 10 mm bore for router bit

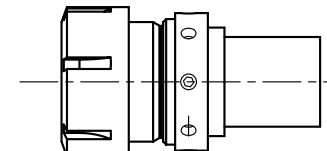


S2 - Saw, Spindle,
52mm bolt circle

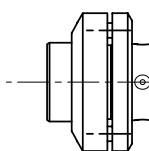
FunctionLINE Duo Modular System Options



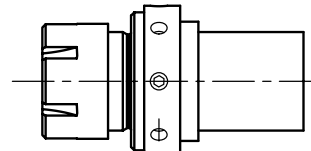
S1 - Modular Saw Spindle
w/ 10 mm bore for router bit



R6 Modular - ER32



P1 - Modular Saw Arbor
Range: 1.5mm-4mm tool shank



M5 - Modular ER25

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

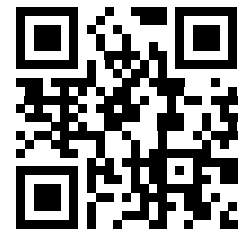
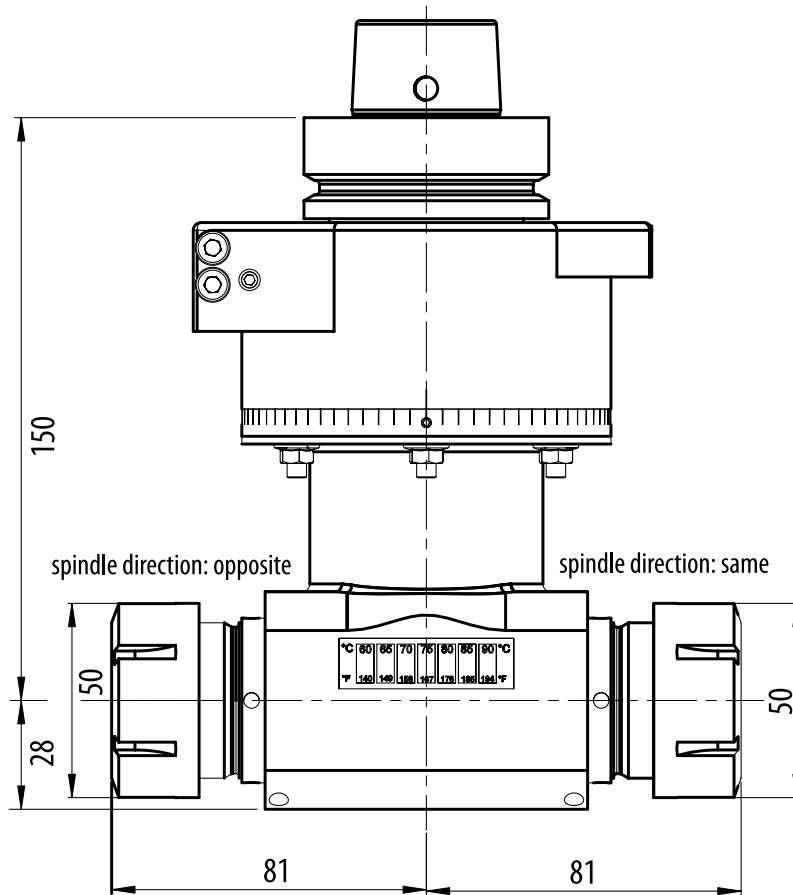
All FunctionLINE aggregate heads are grease lubricated for standard duty operation. They provide the greatest number of configurations and application specific tool output options to increase CNC router productivity.

FunctionLINE – Duo Aggregate

Spindle Speed Max.	10,000 RPM
Tool Speed Max.	15,000 RPM
Rotation	aggregate can be rotated 360°
Lubrication	grease
Gear Ratio	1:1.48
Maximum Torque	15 ft/lbs
Spindle Direction	#1 clockwise, #2 opposite
Maximum Temp.	185°F
Spindle Outputs*	M5, R6, S1, S2, Modular

Dual Output 90° Aggregate

FunctionLINE Duo Dimensions (mm)



Scan the QR code or enter this url: <http://delivr.com/1hlv9> to learn more about agg heads.



Learn about our "Never Down" Guarantee – See page 42



Boring



Mortising



Sawing

FunctionLINE – Quattro



Specify your machine spindle when ordering

FunctionLINE Quattro Aggregate

Use Quattro Aggregates when three or more tools are required for routing, boring, mortising, and sawing operations. Choose from a wide variety of spindle outputs. (See chart below)

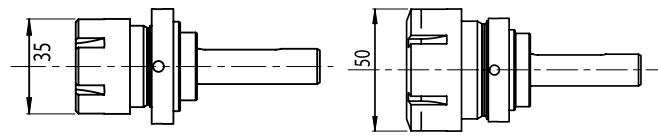
Features

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

Includes:

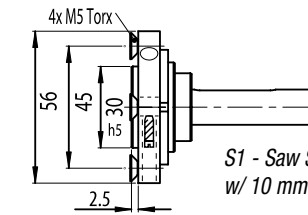
- Collet nuts & wrenches
- ER collets sold separately

FunctionLINE Quattro Output Options



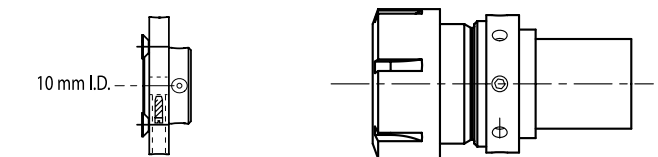
M5 - ER25 Collet, and nut
Range: 1mm – 16mm

R6 - ER32 Collet,
Range: 3mm – 20mm



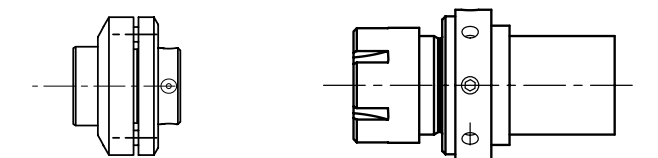
S1 - Saw Spindle, 45mm bolt circle
w/ 10 mm bore for router bit

FunctionLINE Quattro Modular System Options



S1 - Modular Saw Spindle
w/ 10 mm bore for router bit

R6 Modular - ER32



P1 - Modular Saw Arbor
Range: 1.5mm-4mm tool shank

M5 - Modular ER25

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.

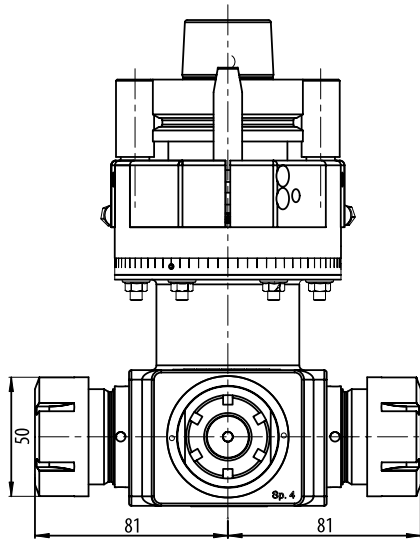
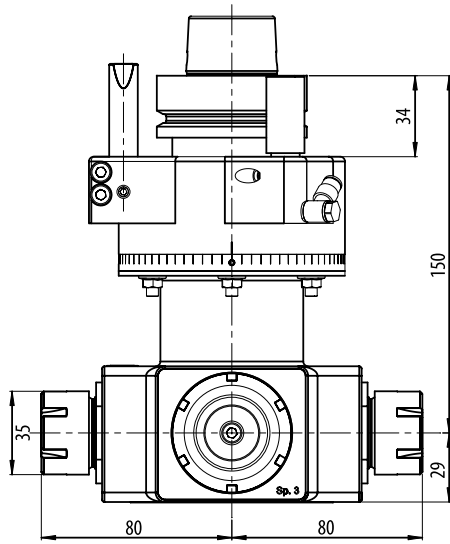
All FunctionLINE aggregate heads are grease lubricated for standard duty operation. They provide the greatest number of configurations and application specific tool output options to increase CNC router productivity.

FunctionLINE – Quattro Aggregate

Spindle Speed Max.	10,000 RPM
Tool Speed Max.	15,000 RPM
Rotation	aggregate can be rotated 360°
Lubrication	grease
Gear Ratio	1:1.48
Maximum Torque	15 ft/lbs
Spindle Direction	#1 & #2 clockwise, #3 & #4 opposite
Maximum Temp.	185°F
Spindle Outputs*	M5, R6, S1, Modular

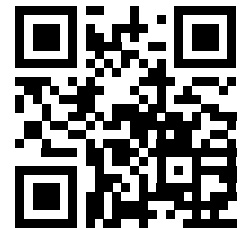
Quad Output 90° Aggregate

FunctionLINE Quattro Dimensions (mm)



Learn about our "Never Down" Guarantee – See page 42

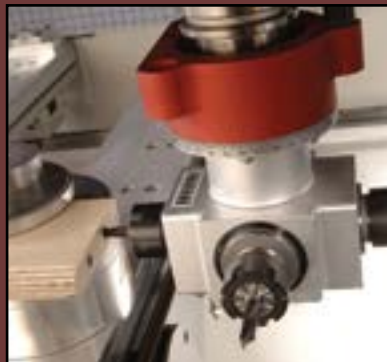
Aggregate Heads at Work



Scan the QR code or enter this url: <http://delivr.com/1hmzs> to see our agg heads in action.



Routing Aluminum



Boring



Eliminate tool changes



All Techniks products are backed by our 100% satisfaction guarantee!

FunctionLINE – Vario and Viso Aggregates

Viso aggregate shown



Specify your machine spindle when ordering.

Use Vario or Viso aggregates to cut at any angle from 0° to 100°. 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 digital display aggregate takes the guesswork out of repeating angles, and makes transfer of angles from prints to aggregate easy. The FunctionLINE Viso can also accept the modular system.

FunctionLINE – Vario and Viso Aggregates

Spindle Speed Max.	15,000 RPM
Tool Speed Max.	15,000 RPM
Lubrication	grease
Rotation	Aggregate can be rotated 360°
Gear Ratio	1:1
Swiveling Range	0° to 100°
Maximum Torque	15 ft/lbs
Spindle Direction	Opposite machine spindle
Maximum Temp.	185°F
Spindle Outputs Vario	K1, K2
Spindle Outputs Viso	K1, K2, Modular

FunctionLINE Vario and Viso Aggregates

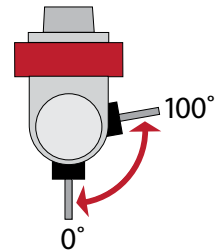
The Viso aggregate has all the features of the Vario, but adds a digital display of the angle setting. This feature increases accuracy and repeatability of desired angles.

Features:

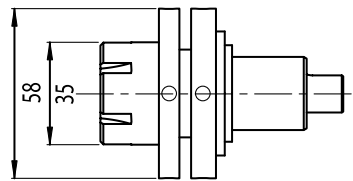
- Route, drill, saw, or mortise any angle from 0° to 100°
- Viso features digital display for easy angle setting
- Output options: combination ER25 and saw blade or modular system (Viso only)

Includes:

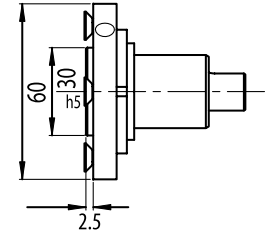
- Collet nut & wrenches
- ER collets sold separately



FunctionLINE Vario or Viso Output Options

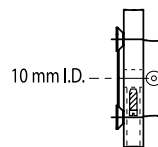


K1 - ER25 Collet and saw blade

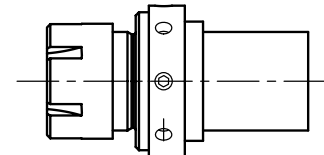


K2 - Combi spindle 45mm and 52mm bolt circle

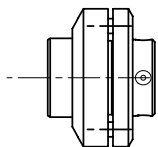
Modular Output Options (Viso aggregate only)



S1 - Modular Saw Spindle w/ 10 mm bore for router bit



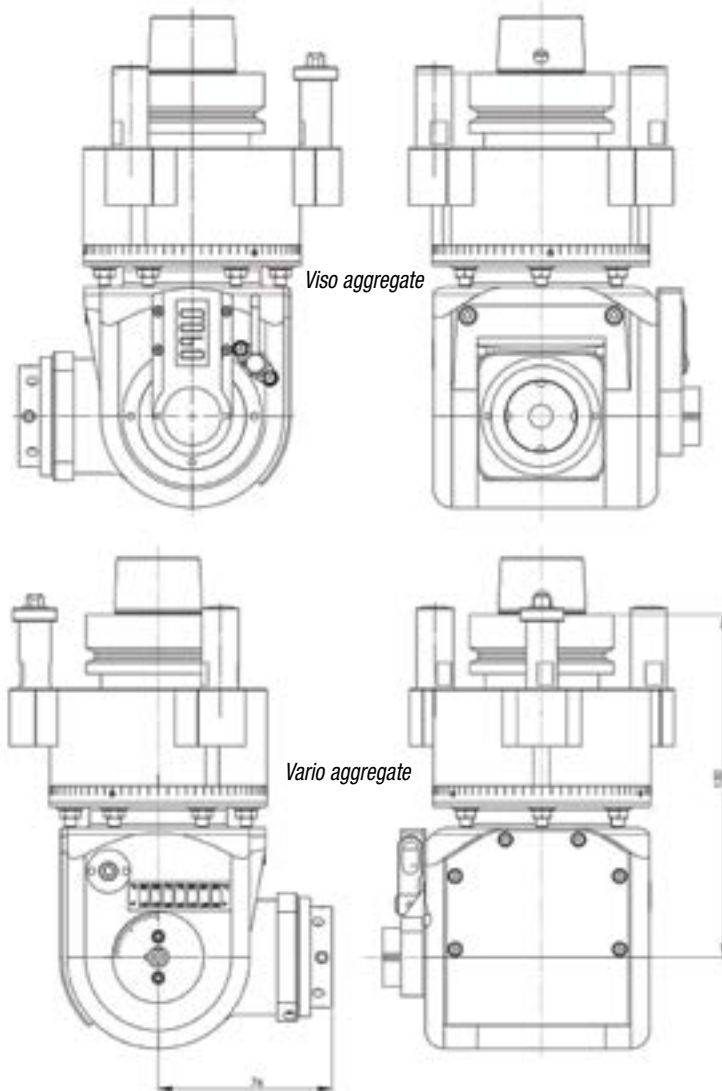
M5 - Modular ER25



P1 - Modular Saw Arbor
Range: 1.5mm-4mm tool shank

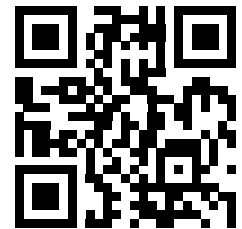
Variable Angle – Digital Display

FunctionLINE Vario and Viso Dimensions (mm)



Learn about our "Never Down" Guarantee – See page 42

Viso Digital Display Aggregate



Scan the QR code
or enter this url:
<http://delivr.com/1hiug> to learn
more about
Viso aggregate
heads



Vario sawing



adjusts angle as needed



Viso Digital Display

FunctionLINE – Extra Lockset Recess Aggregate



Specify your machine spindle when ordering.

All FunctionLINE aggregates are grease lubricated for standard duty operation. They provide the greatest number of configurations and application specific tool output options to increase CNC router productivity.

FunctionLINE Lock Recess

Spindle Speed Max.	10,000 RPM
Tool Speed Max.	15,000 RPM
Lubrication	grease
Rotation	aggregate can be rotated 360°
Gear Ratio	1:1.5
Maximum Torque	15 ft/lbs
Spindle Direction	same as machine spindle
Maximum Temp.	185°F
Spindle Outputs	front: ER32, rear ER16 integral

FunctionLINE Extra Lockset Recess

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

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



ExtraPLUS aggregate

New! ExtraPLUS Lock Recess Aggregate

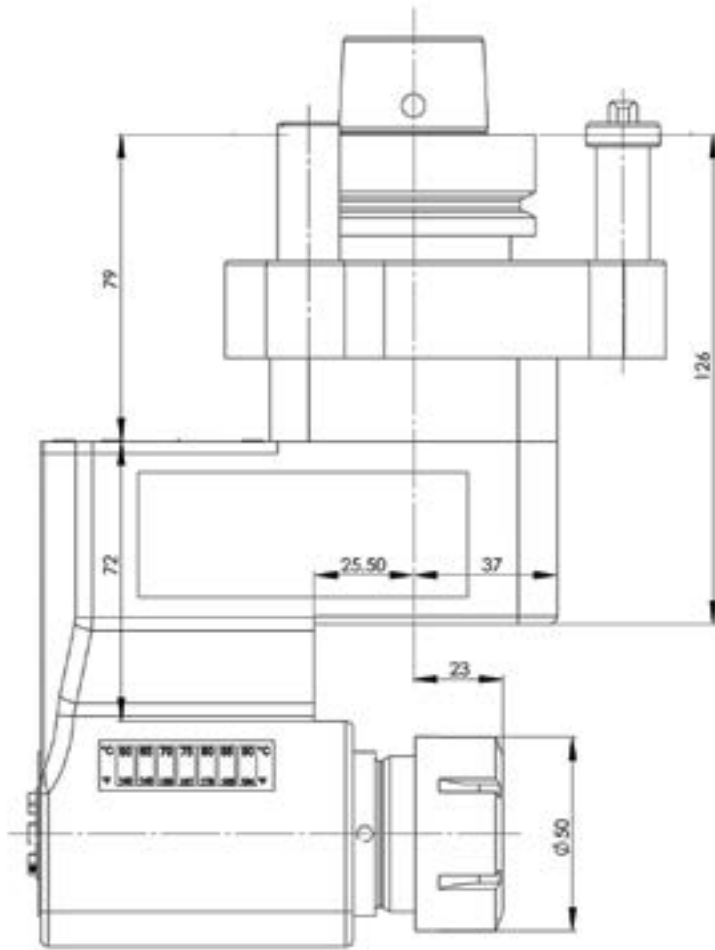
ExtraPLUS aggregate features an oscillating cutting motion that speeds lock recess cutting by 65%. Scan the QR code on next page to see it in action.



Front output is ER32. Back output (shown) is integral ER16 output used for routing lock plates.

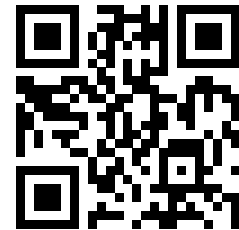
Optimized For Cutting Lock Recesses

FunctionLINE Lockset Recess

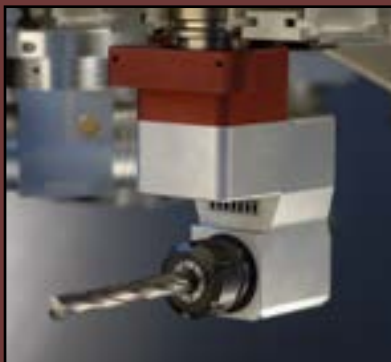
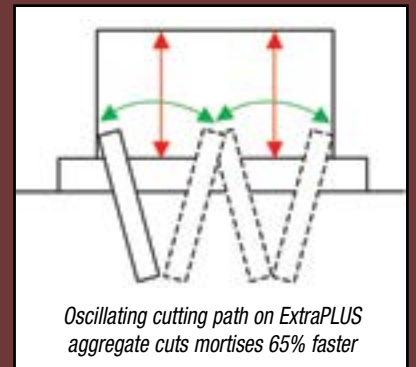


Learn about our "Never Down" Guarantee – See page 42

New! ExtraPLUS Aggregate



Scan the QR code or enter this url: <http://delivr.com/1hrj9> to learn more about ExtraPLUS.



Extra Lockset Recess Aggregate



Mortising a lockset recess



Extra Lockset Recess Aggregates



All Techniks products are backed by our 100% satisfaction guarantee!

FunctionLINE – Soft Touch Aggregate Head



Specify your machine spindle when ordering.

The FunctionLINE Soft-Touch Aggregate

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

Features:

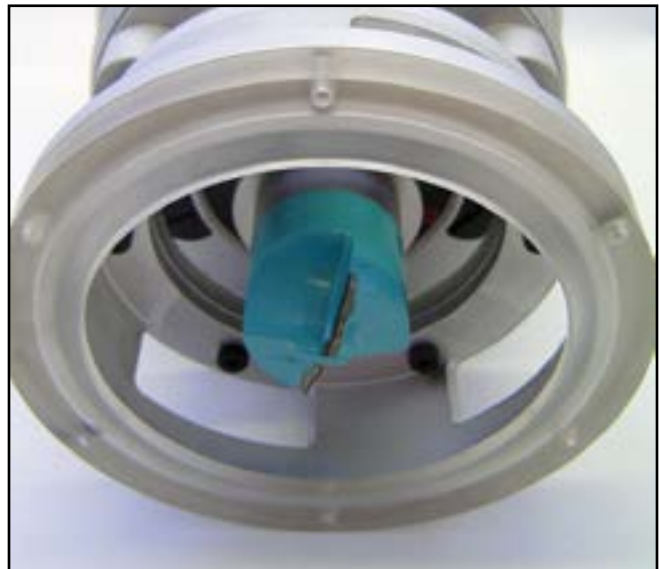
- Up to 10mm of compensation for surface variance
- Eliminate re-work processing
- Optional chip guide directs dust into the machine's dust hood for a cleaner work environment

Includes:

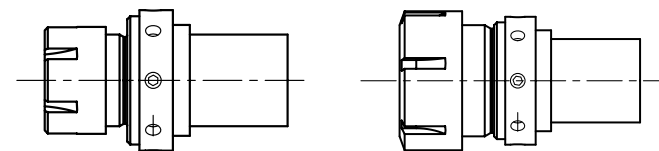
- collet nut and wrench, standard floating bell, ER25 or ER32 output (your choice)

Options:

- Chip Guide, various floating bells, shoes, sanding discs, and sleighs. High-speed version up to 24,000 RPM



Soft-Touch Modular Output Options



M5 - Modular ER25

R6 - Modular ER32

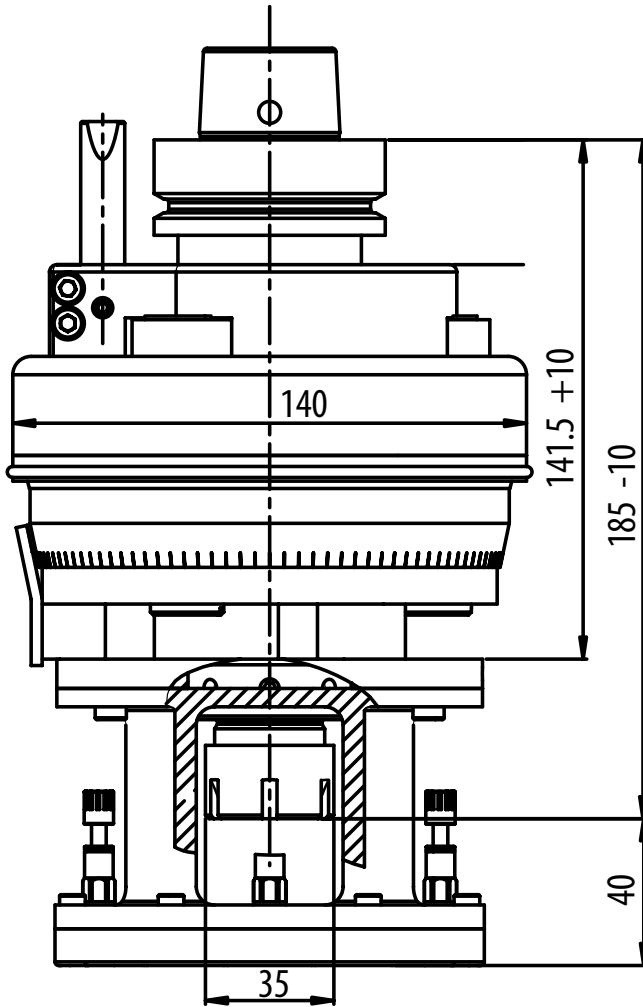
Soft-Touch aggregates automatically compensate for any surface variation in your material. The Chip Guide is available to direct dust into the machine hood. Scan the QR code on the next page to see the Chip Guide in action.

FunctionLINE Soft-Touch (grease lubricated)

Spindle Speed Max.	18,000 RPM (24,000 RPM option)
Floating Range	10 mm (with 10 mm adjustment)
Floating Pressure	adjustable from 1/4 lb. to 20 lbs
Rotation	aggregate can be rotated 360°
Gear Ratio	1:1
Floating Bell	70 mm deep X 105 mm I.D.
Maximum Torque	10 ft/lbs
Rotation Direction	same as machine spindle
Maximum Temp.	185°F
Spindle Outputs	Modular system

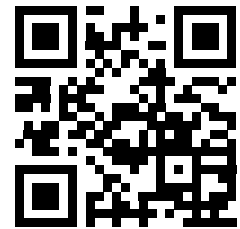
Floating Aggregate for Consistent Depth-of-Cut

FunctionLINE Soft-Touch Dimensions (mm)



Learn about our "Never Down" Guarantee – See page 42

Soft-Touch with Chip Guide



Scan the QR code or enter this url: <http://delivr.com/1hw31> to learn more about the Chip Guide aggregate.



Edge processing



Setup for edging



Sanding disc



All Techniks products are backed by our 100% satisfaction guarantee!

UltraLINE – Mono Aggregate



Specify your machine spindle when ordering

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 applications, 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

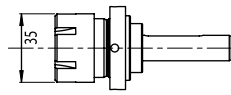
UltraLINE Mono aggregates can be configured with a wide variety of spindle outputs to perform a variety of processing tasks quickly and efficiently. Call us for assistance specifying the outputs you need.

All UltraLINE aggregate heads are oil bath lubricated for heavy duty operation and long life.

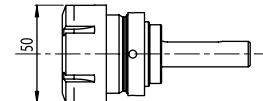
UltraLINE – Mono Aggregate

Spindle Speed Max.	10,000 RPM
Tool Speed Max.	15,000 RPM
Rotation	Aggregate can be rotated 360°
Lubrication	oil bath
Gear Ratio	1:1.48
Gear Reduction*	1:0.676 (*optional feature)
Maximum Torque	17 ft/lbs
Spindle Direction	Same as machine spindle
Maximum Temp.	185°F
Spindle Outputs	M5, R6, S1, S2, A1, A2, A3, A4, O5, R7

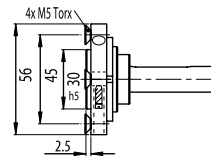
UltraLINE Mono Output Options



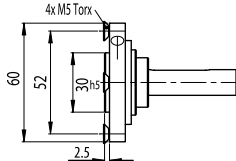
M5 - ER25 Collet and nut
Range: 1mm – 16mm



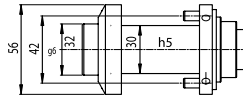
R6 - ER32 Collet and nut
Range: 3mm – 20mm



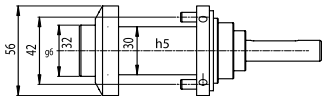
S1 - Saw Spindle, 45mm bolt circle w/ 10 mm bore for router bit



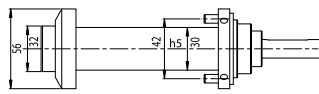
S2 - Saw Spindle, 52mm bolt circle



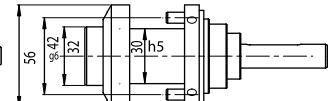
A1 - Prolock Spindle
Range: 1.5mm-6mm tool shank



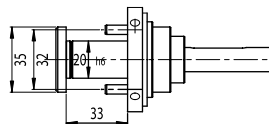
A2 - Prolock Spindle
Range: 48mm – 52mm



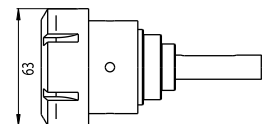
A3 - Prolock Spindle
ange: 98mm – 102mm



A4 - Prolock Spindle
Range: 28mm – 32mm



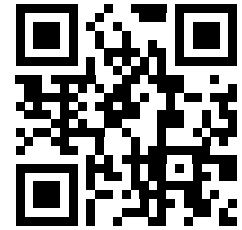
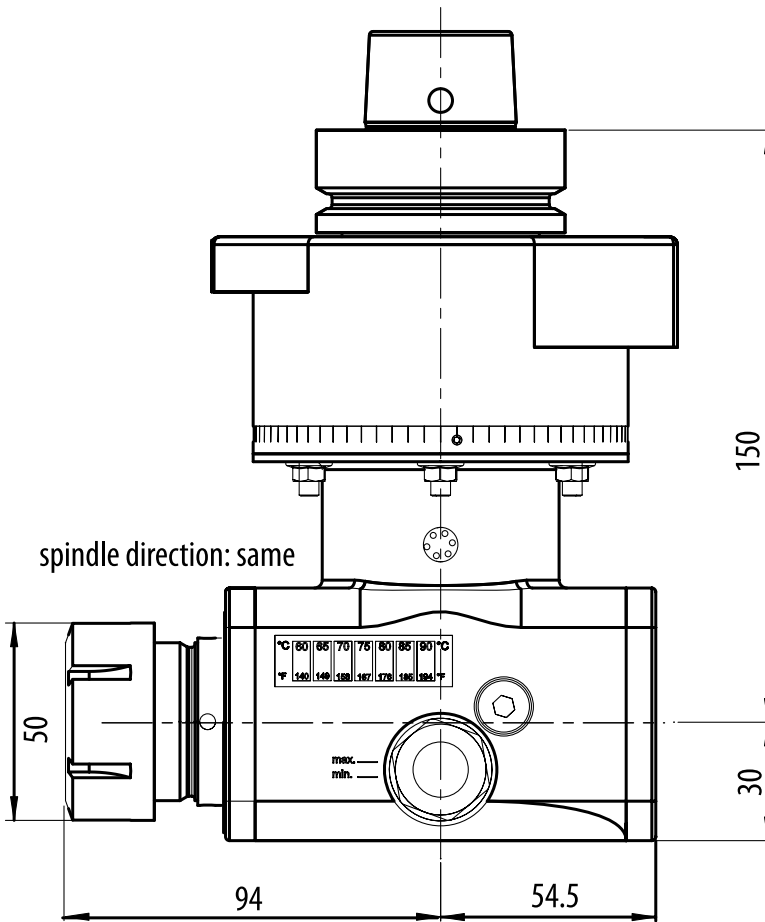
O5 - Special, $\varnothing 20h6 \times \varnothing 5H7$, 2x M5 - bolt circle 32mm, M10 central



R7 - ER40 - for use with Ultra Line only Range: 4mm – 26mm

Single Output 90° Aggregate

UltraLINE Mono Dimensions (mm)



Scan the QR code or enter this url: <http://delivr.com/1hiv9> to learn more about agg heads.



Learn about our "Never Down" Guarantee – See page 42



Routing



Sawing



Boring



All Techniks products are backed by our 100% satisfaction guarantee!

UltraLINE – Duo Aggregate



Specify your machine spindle when ordering

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 applications, cutting MDF, composite materials, or cutting aluminum.

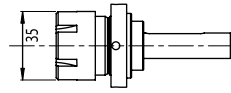
Features

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

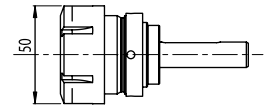
Includes:

- Collet nuts & wrenches
- ER collets sold separately

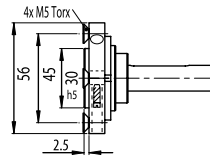
UltraLINE Duo Output Options



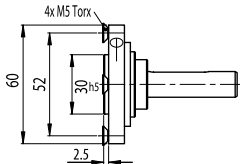
M5 - ER25 Collet and nut
Range: 1mm – 16mm



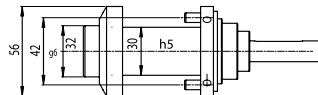
R6 - ER32 Collet and nut
Range: 3mm – 20mm



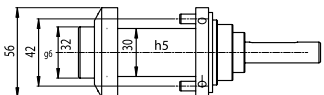
S1 - Saw Spindle, 45mm bolt circle w/ 10 mm bore for router bit



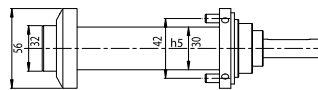
S2 - Saw Spindle, 52mm bolt circle



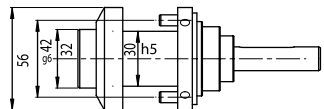
A1 - Prolock Spindle
Range: 1.5mm-6mm tool shank



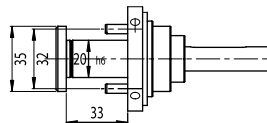
A2 - Prolock Spindle
Range: 48mm – 52mm



A3 - Prolock Spindle
ange: 98mm – 102mm



A4 - Prolock Spindle
Range: 28mm – 32mm



O5 - Special, $\varnothing 20h6$ 2x $\varnothing 5H7$, 2x M5 - bolt circle 32mm ,M10 central

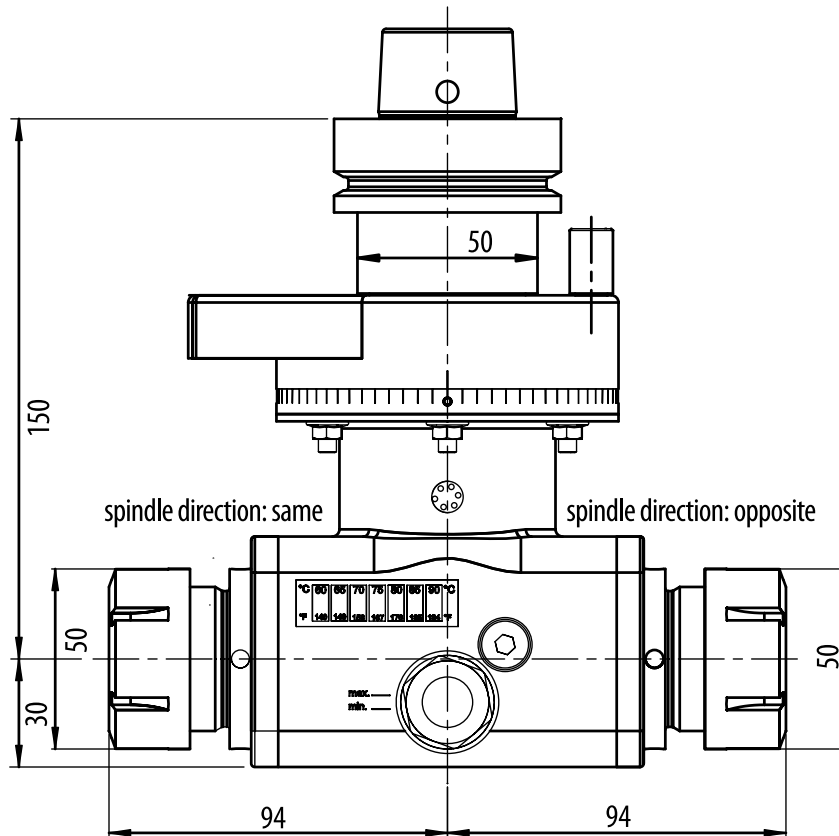
UltraLINE Duo aggregates can be configured with your choice of spindle outputs to perform a variety of processing tasks quickly and efficiently. Call us for assistance specifying the outputs you need. All UltraLINE aggregate heads are oil bath lubricated for heavy duty operation and extended life.

UltraLINE – Duo Aggregate

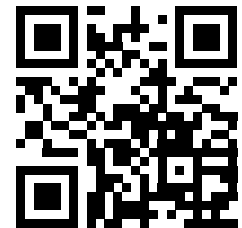
Spindle Speed Max.	10,000 RPM
Tool Speed Max.	15,000 RPM
Rotation	Aggregate can be rotated 360°
Lubrication	oil bath
Gear Ratio	1:1.48
Gear Reduction*	1:0.676 (optional high torque feature)
Maximum Torque	17 ft/lbs
Spindle Direction	Same as machine spindle
Maximum Temp.	185°F
Spindle Outputs	M5, R6, S1, S2, A1, A2, A3, A4, O5

Dual Output 90° Aggregate

UltraLINE Duo Dimensions (mm)



Aggregate Heads at Work



Scan the QR code or enter this url: <http://delivr.com/1hmzs> to see our agg heads in action.



Learn about our "Never Down" Guarantee – See page 42



Boring



Mortising



Sawing

UltraLINE – Vario Aggregate



Specify your machine spindle when ordering.

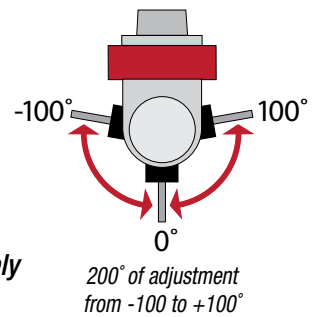
UltraLINE aggregates feature oil bath lubricated gearing for superior wear resistance, and are sealed from all contaminants for extended life under heavy-duty conditions. We recommend UltraLINE aggregates for sawing using blades larger than 7", V-grooving, heavy routing applications, cutting MDF, composite materials, or cutting aluminum.

Features:

- Ultra Vario Aggregate features a full 200° of angle adjustment from -100° to 100°
- Most flexible of any aggregate head
- Create "impossible" custom profiles and mortises
- Faster sizing and grooving (saw blade) than with router bits

Includes:

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



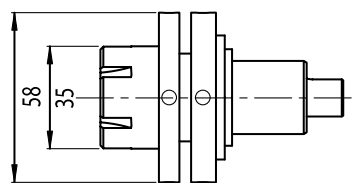
Use UltraLINE Vario aggregates to cut at any angle from -100° to 100° (a full 200° of adjustment). Vario aggregates are equipped with a combination saw blade and ER25 output. A dedicated saw output is also available.

UltraLINE Vario (oil bath lubricated)

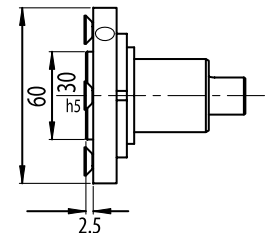
Spindle Speed Max.	13,760 RPM
Tool Speed Max.	15,000 RPM
Lubrication	Oil Bath
Rotation	Aggregate can be rotated 360°
Gear Ratio	1:1.09
Swiveling Range	-100° to 100° (full 200° adjustment)
Maximum Torque	17 ft/lbs
Spindle Direction	Opposite machine spindle
Maximum Temp.	185°F
Spindle Outputs	K1, K2



UltraLINE Vario Output Options



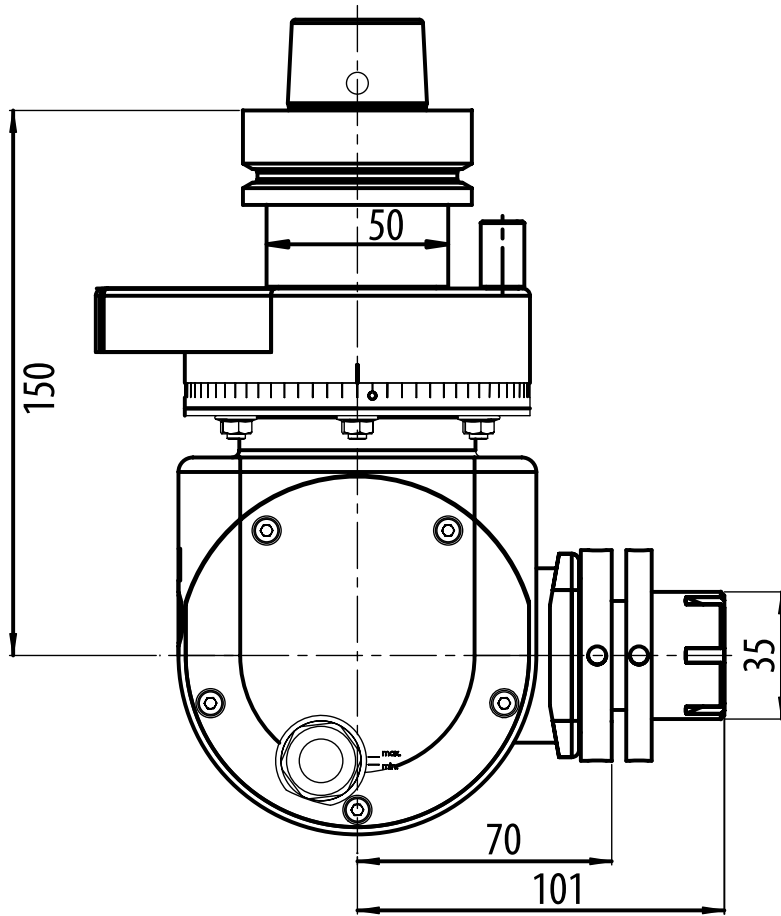
K1 - ER25 Collet



K2 - Combi spindle 45mm and 52mm bolt circle

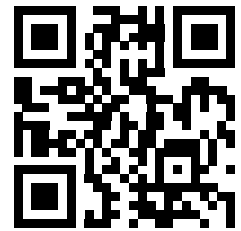
Variable Angle Adjustment Aggregate

UltraLINE Vario Dimensions (mm)



Learn about our "Never Down" Guarantee – See page 42

Viso Digital Display Aggregate



Scan the QR code
or enter this url:
<http://delivr.com/1hlug>
to learn
more about
Viso aggregate
heads



Vraio graduated scale



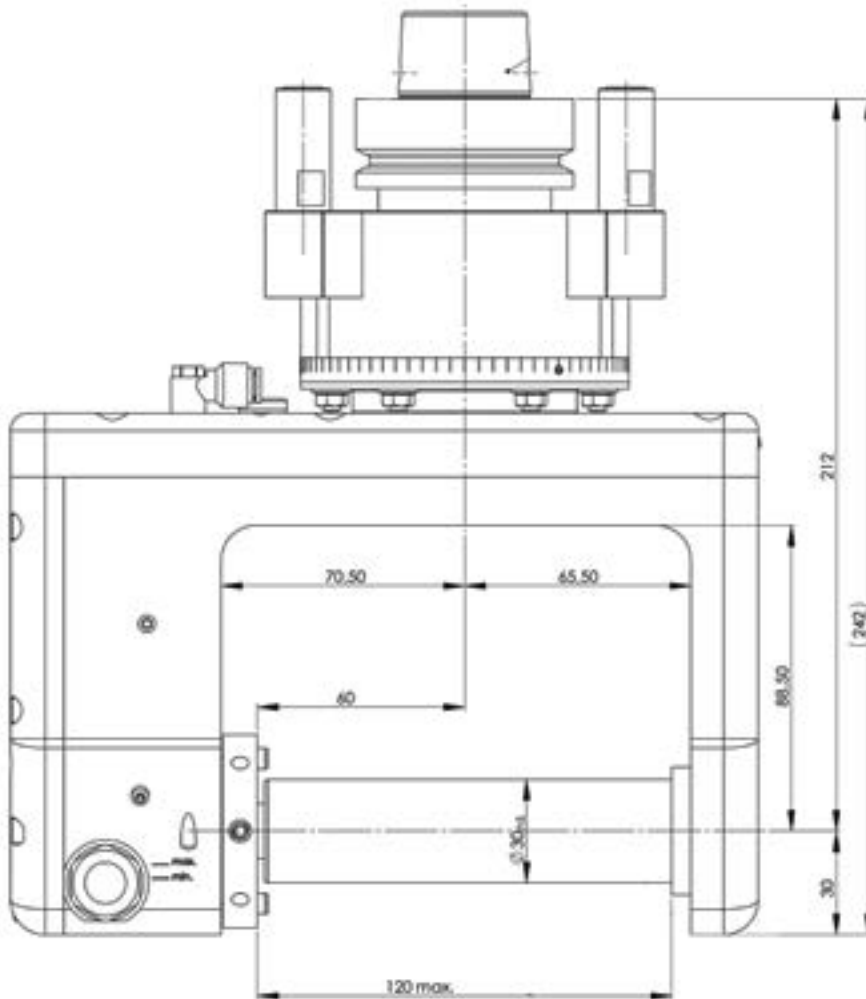
adjusts angle as needed



Vraio sawing

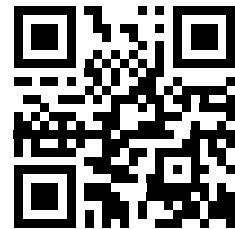
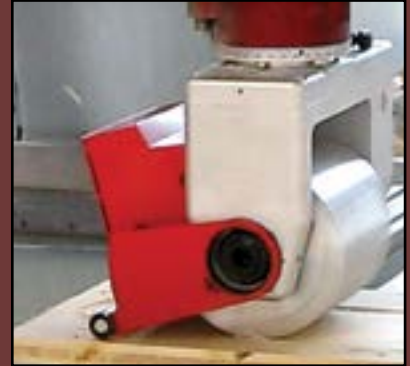
Available with Chip Guide for Dust Control

UltraLINE Moulder Head Dimensions (mm)



Learn about our "Never Down" Guarantee – See page 42

See the Chip Guide in Action



Scan the QR code or enter url:
<http://delivr.com/1hrrt> to learn more about the moulder head with Chip Guide.



forming and shaping



creating a smooth profile



grooving application

Part Number Index: 00100 – 04018

Part No.	Pg.	Part No.	Pg.	Part No.	Pg.
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00200	29	04008-11/64	22	04010-15/64	23
00316-SLN-L	11	04008-11S	22	04010-15S	23
00316-SLN-L	11	04008-13/32	22	04010-17/32	23
00316-SLN-R	11	04008-13/64	22	04010-17/64	23
00316-SLN-R	11	04008-15/32	22	04010-19/32	23
00320	28	04008-15/64	22	04010-19/64	23
01250-13S	34	04008-17/32	22	04010-21/32	23
03508	25	04008-17/64	22	04010-21/64	23
03508-1/4	25	04008-19/32	22	04010-21S	23
03508-1/8	25	04008-19/64	22	04010-23/32	23
03508-3/16	25	04008-21/32	22	04010-23/64	23
03508-5/16	25	04008-21/64	22	04010-25/32	23
03520-1/2	25	04008-22S	22	04010-25/64	23
03520-1/4	25	04008-23/32	22	04010-27/32	23
03520-1/8	25	04008-23/64	22	04010-27/64	23
03520-10	25	04008-25/64	22	04010-29/32	23
03520-3/16	25	04008-27/64	22	04010-29/64	23
03520-3/8	25	04008-29/64	22	04010-3/16	23
03520-5/16	25	04008-3/16	22	04010-3/32	23
03520-7/16	25	04008-3/32	22	04010-3/4	23
03531-1/2	25	04008-3/4	22	04010-3/8	23
03531-1/4	25	04008-3/8	22	04010-30S	23
03531-1/8	25	04008-31/64	22	04010-31/32	23
03531-10	25	04008-33/64	22	04010-31/64	23
03531-16	25	04008-35/64	22	04010-33/64	23
03531-3/16	25	04008-37/64	22	04010-35/64	23
03531-3/8	25	04008-39/64	22	04010-37/64	23
03531-5/16	25	04008-41/64	22	04010-39/64	23
03531-5/8	25	04008-43/64	22	04010-41/64	23
03531-7/16	25	04008-43S	22	04010-41S	23
03531-9/16	25	04008-45/64	22	04010-43/64	23
03636	25	04008-47/64	22	04010-45/64	23
03690-25	35	04008-5/16	22	04010-47/64	23
03691	34	04008-5/32	22	04010-49/64	23
03868-1	25	04008-5/8	22	04010-5/16	23
03868-1/2	25	04008-7/16	22	04010-5/32	23
03868-1/4	25	04008-7/32	22	04010-5/8	23
03868-1/8	25	04008-7/64	22	04010-51/64	23
03868-10	25	04008-9/16	22	04010-53/64	23
03868-16	25	04008-9/32	22	04010-55/64	23
03868-20	25	04008-9/64	22	04010-57/64	23
03868-25	25	04008v-1/8	22	04010-59/64	23
03868-3/16	25	04010-1	23	04010-59S	23
03868-3/4	25	04010-1/2	23	04010-61/64	23
03868-3/8	25	04010-1/4	23	04010-63/64	23
03868-5/16	25	04010-1/8	23	04010-7/16	23
03868-5/8	25	04010-11/16	23	04010-7/32	23
03868-7/16	25	04010-11/32	23	04010-7/64	23
03868-7/8	25	04010-11/64	23	04010-7/8	23
03868-9/16	25	04010-13/16	23	04010-9/16	23
04008-1/2	22	04010-13/32	23	04010-9/32	23
04008-1/4	22	04010-13/64	23	04010-9/64	23
04008-11/16	22	04010-15/16	23	04018	34

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04018-TWA	35	04216-04	14	04220-12.5	14
04200MS	14	04216-04.5	14	04220-13	14
04201MS	14	04216-05	14	04220-13.5	14
04202MS	14	04216-05.5	14	04220-13/32	12
04203MS	14	04216-06	14	04220-14	14
04204MS	14	04216-06.5	14	04220-15/32	12
04205MS	14	04216-07	14	04220-3/16	12
04206MS	14	04216-07.5	14	04220-3/32	12
04207MS	14	04216-08	14	04220-3/8	12
04208-01.0	14	04216-08.5	14	04220-5/16	12
04208-01.5	14	04216-09	14	04220-5/32	12
04208-02.0	14	04216-09.5	14	04220-7/16	12
04208-02.5	14	04216-1/16	12	04220-7/32	12
04208-03.0	14	04216-1/4	12	04220-9/32	12
04208-03.5	14	04216-1/8	12	04225-02	15
04208-04.0	14	04216-10	14	04225-02.5	15
04208-04.5	14	04216-10.5	14	04225-03	15
04208-05.0	14	04216-11/32	12	04225-03.5	15
04208-1/16	12	04216-13/32	12	04225-04	15
04208-1/8	12	04216-3/16	12	04225-05	15
04208-3/16	12	04216-3/32	12	04225-06	15
04208IS	12	04216-3/8	12	04225-07	15
04209IS	12	04216-5/16	12	04225-08	15
04210IS	12	04216-5/32	12	04225-09	15
04211-01.0	14	04216-7/32	12	04225-1/2	13
04211-01.5	14	04216-9/32	12	04225-1/4	13
04211-02.0	14	04220-01	14	04225-1/8	13
04211-02.5	14	04220-01.5	14	04225-10	15
04211-03.0	14	04220-02	14	04225-11	15
04211-03.5	14	04220-02.5	14	04225-11/32	13
04211-04.0	14	04220-03	14	04225-12	15
04211-04.5	14	04220-03.5	14	04225-13	15
04211-05.0	14	04220-04	14	04225-13/32	13
04211-05.5	14	04220-04.5	14	04225-14	15
04211-06.0	14	04220-05	14	04225-15	15
04211-06.5	14	04220-05.5	14	04225-15/32	13
04211-07.0	14	04220-06	14	04225-16	15
04211-1/16	12	04220-06.5	14	04225-17	15
04211-1/4	12	04220-07	14	04225-17/32	13
04211-1/8	12	04220-07.5	14	04225-19/32	13
04211-3/16	12	04220-08	14	04225-3/16	13
04211-3/32	12	04220-08.5	14	04225-3/32	13
04211-5/32	12	04220-09	14	04225-3/4	13
04211-7/32	12	04220-09.5	14	04225-3/8	13
04211-9/32	12	04220-1/16	12	04225-5/16	13
04211IS	12	04220-1/2	12	04225-5/32	13
04212IS	12	04220-1/4	12	04225-5/8	13
04213IS	12	04220-1/8	12	04225-7/16	13
04216-01	14	04220-10	14	04225-7/32	13
04216-01.5	14	04220-10.5	14	04225-9/16	13
04216-02	14	04220-11	14	04225-9/32	13
04216-02.5	14	04220-11.5	14	04232-03	15
04216-03	14	04220-11/32	12	04232-03.5	15
04216-03.5	14	04220-12	14	04232-04	15



All Techniks products are backed by our 100% satisfaction guarantee!

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Part No.	Pg.	Part No.	Pg.	Part No.	Pg.
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04232-05	15	04232-9/32	13	04250-07	15
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04232-06	15	04240-05	15	04250-09	15
04232-06.5	15	04240-06	15	04250-1	13
04232-07	15	04240-07	15	04250-1-1/4	13
04232-07.5	15	04240-08	15	04250-1/2	13
04232-08	15	04240-09	15	04250-10	15
04232-08.5	15	04240-1	13	04250-12	15
04232-09	15	04240-1/2	13	04250-14	15
04232-09.5	15	04240-1/4	13	04250-16	15
04232-1/16	13	04240-1/8	13	04250-18	15
04232-1/2	13	04240-10	15	04250-20	15
04232-1/4	13	04240-11	15	04250-22	15
04232-1/8	13	04240-11/16	13	04250-24	15
04232-10	15	04240-11/32	13	04250-26	15
04232-10.5	15	04240-12	15	04250-28	15
04232-11	15	04240-13	15	04250-3/4	13
04232-11.5	15	04240-13/16	13	04250-30	15
04232-11/16	13	04240-13/32	13	04250-32	15
04232-11/32	13	04240-14	15	04250-34	15
04232-12	15	04240-15	15	04250-5/8	13
04232-12.5	15	04240-15/16	13	04250-7/8	13
04232-13	15	04240-15/32	13	04576	35
04232-13.5	15	04240-16	15	04577	35
04232-13/32	13	04240-17	15	04578	35
04232-14	15	04240-17/32	13	04580-16	35
04232-14.5	15	04240-18	15	04580-20	35
04232-15	15	04240-19	15	04587	35
04232-15.5	15	04240-19/32	13	04588-R	35
04232-15/32	13	04240-20	15	04601-16	35
04232-16	15	04240-21	15	04602-20	35
04232-16.5	15	04240-21/32	13	04603-25	35
04232-17	15	04240-22	15	04604-32	35
04232-17.5	15	04240-23	15	04605-40	35
04232-17/32	13	04240-23/32	13	04608	34
04232-18	15	04240-24	15	04609	34
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04232-19	15	04240-25/32	13	04613	34
04232-19.5	15	04240-26	15	04614	34
04232-19/32	13	04240-27/32	13	04615	34
04232-20	15	04240-29/32	13	04616	34
04232-21	15	04240-3/16	13	04617	34
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04232-3/32	13	04240-5/16	13	04622	34
04232-3/4	13	04240-5/32	13	04623	34
04232-3/8	13	04240-5/8	13	04624	34
04232-5/16	13	04240-7/16	13	04817	10
04232-5/32	13	04240-7/32	13	04818	10
04232-5/8	13	04240-7/8	13	04832	10
04232-7/16	13	04240-9/16	13	04834	10
04232-7/32	13	04240-9/32	13	04835	10

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04837	10	08520 - 09.0	20	08532 - 13.0	20
04839	10	08520 - 09.5	20	08532 - 13.5	20
04839-140	10	08520 - 10.0	20	08532 - 14.0	20
04841	10	08520 - 10.5	20	08532 - 14.5	20
04843	10	08520 - 11.0	20	08532 - 15.0	20
04851	10	08520 - 11.5	20	08532 - 15.5	20
04854	10	08520 - 12.0	20	08532 - 16.0	20
04855	10	08520 - 12.5	20	08532 - 16.5	20
04856	10	08520 - 13.0	20	08532 - 17.0	20
04858	10	08525 - 03.5	20	08532 - 17.5	20
04881	10	08525 - 04.0	20	08532 - 18.0	20
04888	10	08525 - 04.5	20	08532 - 18.5	20
04889	10	08525 - 05.0	20	08532 - 19.0	20
04891	10	08525 - 05.5	20	08532 - 19.5	20
04892	10	08525 - 06.0	20	08532 - 20.0	20
04893	10	08525 - 06.5	20	08540 - 04.0	20
04894	10	08525 - 07.0	20	08540 - 04.5	20
04895	10	08525 - 07.5	20	08540 - 05.0	20
04896	10	08525 - 08.0	20	08540 - 05.5	20
04897	10	08525 - 08.5	20	08540 - 06.0	20
04898	10	08525 - 09.0	20	08540 - 06.5	20
06000-2016MC	7	08525 - 09.5	20	08540 - 07.0	20
06000-2516	7	08525 - 10.0	20	08540 - 07.5	20
06000-2520	7	08525 - 10.5	20	08540 - 08.0	20
07710	37	08525 - 11.0	20	08540 - 08.5	20
07711	37	08525 - 11.5	20	08540 - 09.0	20
07801	32	08525 - 12.0	20	08540 - 09.5	20
07806	32	08525 - 12.5	20	08540 - 10.0	20
07812	32	08525 - 13.0	20	08540 - 10.5	20
08516 - 03.5	20	08525 - 13.5	20	08540 - 11.0	20
08516 - 04.0	20	08525 - 14.0	20	08540 - 11.5	20
08516 - 04.5	20	08525 - 14.5	20	08540 - 12.0	20
08516 - 05.0	20	08525 - 15.0	20	08540 - 12.5	20
08516 - 05.5	20	08525 - 15.5	20	08540 - 13.0	20
08516 - 06.0	20	08525 - 16.0	20	08540 - 13.5	20
08516 - 06.5	20	08532 - 03.5	20	08540 - 14.0	20
08516 - 07.0	20	08532 - 04.0	20	08540 - 14.5	20
08516 - 07.5	20	08532 - 04.5	20	08540 - 15.0	20
08516 - 08.0	20	08532 - 05.0	20	08540 - 15.5	20
08516 - 08.5	20	08532 - 05.5	20	08540 - 16.0	20
08516 - 09.0	20	08532 - 06.0	20	08540 - 16.5	20
08516 - 09.5	20	08532 - 06.5	20	08540 - 17.0	20
08516 - 10.0	20	08532 - 07.0	20	08540 - 17.5	20
08520 - 03.5	20	08532 - 07.5	20	08540 - 18.0	20
08520 - 04.0	20	08532 - 08.0	20	08540 - 18.5	20
08520 - 04.5	20	08532 - 08.5	20	08540 - 19.0	20
08520 - 05.0	20	08532 - 09.0	20	08540 - 19.5	20
08520 - 05.5	20	08532 - 09.5	20	08540 - 20.0	20
08520 - 06.0	20	08532 - 10.0	20	08540 - 20.5	20
08520 - 06.5	20	08532 - 10.5	20	08540 - 21.0	20
08520 - 07.0	20	08532 - 11.0	20	08540 - 21.5	20
08520 - 07.5	20	08532 - 11.5	20	08540 - 22.0	20
08520 - 08.0	20	08532 - 12.0	20	08540 - 22.5	20



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08540 - 24.0	20	1132.0300	19	16131	9
08540 - 24.5	20	1132.0316	19	171.05.046.003	11
08540 - 25.0	20	1132.0350	19	17706	37
08540 - 25.5	20	1132.0400	19	17707	37
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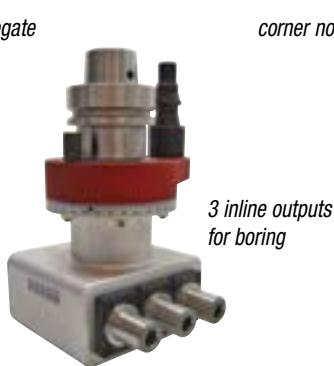


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