

MILLING TOOL ACCESSORIES

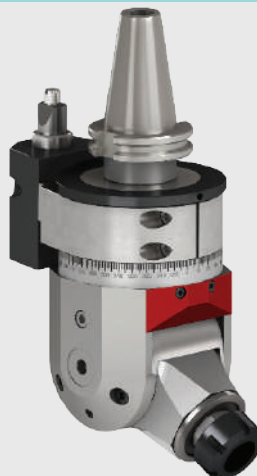
by **Dorian Tool**



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THE BEST PRICE,
FOR
THE BEST TOOLS!



DORIAN[®]
INTERNATIONAL
TOOL

End Mill Holders



.0001" Taper-Bore Runout Tolerance

More cutting tool life and better surface finish

Made of 8620 Alloy Steel with Case Hardness of 56-60 HRC and Core Hardness of 36-40 HRC

Durability and rigidity

Tapers Ground to AT-3 Specifications or BETTER

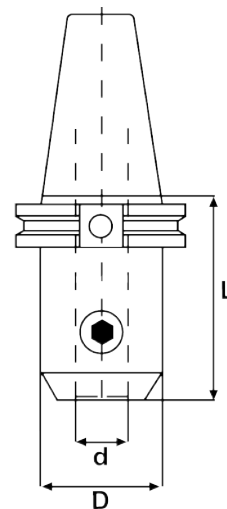
Ensures precise fit with maximum contact surface area with machine spindle. More cutting tool life and better surface finish.

H5 Bore Tolerance for air-tight fit provides maximum contact surface area

Provides a very close tolerance fit with minimum runout between the tool holder's bore and the cutting tool. Translates into more cutting tool life and a better surface finish.

Thru Coolant Feature

Thru Hole of the tool holder allows the use of Thru Coolant Tools when used with a Thru Coolant retention knob



Made In Italy

Precision Balanced to
12,000 RPM

CAT 40

UPC#	Description	Hole Dia. (d) (in)	Gage Length (L) (in)	Body Dia (D) (in)	List Price	Discounted Price 29%	Saving
45011	CAT40 EMH-0250-2500	1/4	2.50	.88	\$104.46	\$74.16	\$30.29
45017	CAT40 EMH-0375-2500	3/8	2.50	1.00	\$104.46	\$74.16	\$30.29
45023	CAT40-EMH-0500-2500	1/2	2.50	1.25	\$104.46	\$74.16	\$30.29
45026	CAT40 EMH-0625-1750	5/8	1.75	1.75	\$104.46	\$74.16	\$30.29
45027	CAT40 EMH-0625-3000	5/8	3.00	1.50	\$104.46	\$74.16	\$30.29
45030	CAT40 EMH-0750-1750	3/4	1.75	1.75	\$104.46	\$74.16	\$30.29
45031	CAT40 EMH-0750-3000	3/4	3.00	1.75	\$104.46	\$74.16	\$30.29
45037	CAT40 EMH-1000-2000	1	2.00	1.75	\$106.05	\$75.30	\$30.75
45038	CAT40 EMH-1000-4000	1	4.00	2.00	\$121.09	\$85.97	\$35.11

CAT 50

UPC#	Description	Hole Dia. (d) (in)	Gage Length (L) (in)	Body Dia (D) (in)	List Price	Discounted Price 29%	Saving
45069	CAT50 EMH-0500-4000	1/2	4.00	1.25	\$189.70	\$134.69	\$55.01
45079	CAT50 EMH-0750-4000	3/4	4.00	1.75	\$189.70	\$134.69	\$55.01
45080	CAT50 EMH-0750-6000	3/4	6.00	1.75	\$259.47	\$184.22	\$75.25
45086	CAT50 EMH-1000-4000	1	4.00	2.00	\$198.93	\$141.24	\$57.69
45087	CAT50 EMH-1000-6000	1	6.00	2.00	\$259.47	\$184.22	\$75.25
45090	CAT50 EMH-1250-4000	1 1/4	4.00	2.50	\$230.64	\$163.75	\$66.89
45091	CAT50 EMH-1250-6000	1 1/4	6.00	2.50	\$276.77	\$196.50	\$80.26
45094	CAT50 EMH-1500-4500	1 1/2	4.50	2.75	\$242.17	\$171.94	\$70.23
45095	CAT50 EMH-1500-7000	1 1/2	7.0	2.75	\$276.77	\$196.50	\$80.26

Shell Mill Holders

.0002" Taper-Arbor Runout Tolerance

Means more cutting tool life and better surface finish.

Made of 8620 Alloy Steel with Case Hardness of 56-60 HRC and Core Hardness of 36-40 HRC

Translates into durability and rigidity.

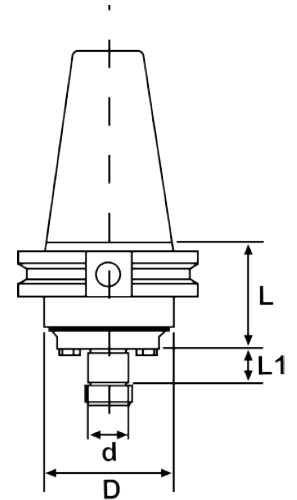
Tapers Ground to AT-3 Specifications or BETTER

Ensures precise fit with maximum contact surface area with machine spindle. Translates into more cutting tool life and a better surface finish.

H5 Arbor Tolerance

Provides a very close tolerance fit with minimum runout between the tool holder's arbor and the cutting tool. Translates into more cutting tool life and better surface finish.

Made In Italy



Precision Balanced to 12,000 RPM



CAT 40

UPC#	Description	Arbor Dia. (d) (in)	Arbor Length (L1) (in)	Gage Length (L) (in)	Body Dia (D) (in)	Arbor Thread (AT)(in)	Key Size (in)	List Price	Discounted Price 29%	Saving
45121	CAT40 SMH-0750-1750	3/4	.67	1.75	1.75	3/8-24	5/16	\$133.09	\$94.49	\$38.60
45123	CAT40 SMH-1000-1750	1	.67	1.75	2.25	1/2-20	3/8	\$132.62	\$94.16	\$38.46
45125	CAT40 SMH-1250-2000	1-1/4	.67	2.00	2.88	5/8-18	1/2	\$141.27	\$100.30	\$40.97
45127	CAT40 SMH-1500-2000	1-1/2	.93	2.00	3.75	3/4-16	5/8	\$149.92	\$106.44	\$43.48

CAT 50

UPC#	Description	Arbor Dia. (d) (in)	Arbor Length (L1) (in)	Gage Length (L) (in)	Body Dia (D) (in)	Arbor Thread (AT)(in)	Key Size (in)	List Price	Discounted Price 29%	Saving
45138	CAT50 SMH-0750-1750	3/4	.68	1.75	2.75	3/8-24	5/16	\$178.75	\$126.91	\$51.84
45142	CAT50 SMH-1000-1750	1	.68	1.75	2.75	1/2-20	3/8	\$178.75	\$126.91	\$51.84
45146	CAT50 SMH-1250-1750	1-1/4	.68	1.75	2.75	5/8-18	1/2	\$186.82	\$132.64	\$54.18
45150	CAT50 SMH-1500-2000	1-1/2	.94	2.00	3.75	3/4-16	5/8	\$199.50	\$141.65	\$57.86
45154	CAT50 SMH-2000-2000	2	.94	2.00	4.88	1-14	5/8	\$276.77	\$196.50	\$80.26

Quality - Service - Technology

ER Collet Holders



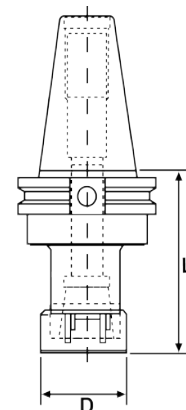
.0001" Taper-Bore Runout Tolerance
Means more cutting tool life and better surface finish

Made of 8620 Alloy Steel with Case Hardness of 56-60 HRC and

Core Hardness of 36-40 HRC.
Translates into durability and rigidity

Tapers Ground to AT-3 Specifications or BETTER
Ensures precise fit with maximum contact surface area with machine spindle.
Translates into more cutting tool life and a better surface finish.

Thru Coolant Feature
Thru Hole of the toolholder allows the use of Thru Coolant Tools when used
with a Thru Coolant retention knob and sealed collet.



Precision Balanced to 12,000 RPM

Made In Italy

CAT 40

UPC#	Description	Series	Tool Dia. Range	Nose Dia. (D) (in)	Gage Length (L) (in)	List Price	Discounted Price 29%	Saving
45173	CAT40 ER11H-2500	ER11	.019-.275	0.63	2.50	\$103.79	\$73.69	\$30.10
45174	CAT40 ER11H-4000	ER11	.019-.275	0.63	4.00	\$130.89	\$92.93	\$37.96
45175	CAT40 ER11H-6000	ER11	.019-.275	0.63	6.00	\$203.54	\$144.51	\$59.03
45176	CAT40 ER16H-2500	ER16	.019-.406	1.26	2.50	\$162.00	\$115.02	\$46.98
45178	CAT40 ER16H-4000	ER16	.019-.406	1.26	4.00	\$130.89	\$92.93	\$37.96
45179	CAT40 ER16H-6000	ER16	.019-.406	1.26	6.00	\$178.75	\$126.91	\$51.84
45180	CAT40 ER20H-2500	ER20	.039-.511	1.38	2.50	\$103.79	\$73.69	\$30.10
45181	CAT40 ER20H-4000	ER20	.039-.511	1.38	4.00	\$130.89	\$92.93	\$37.96
45182	CAT40 ER20H-6000	ER20	.039-.511	1.38	6.00	\$205.16	\$145.67	\$59.50
45183	CAT40 ER25H-2500	ER25	.039-.629	1.65	2.50	\$103.79	\$73.69	\$30.10
45184	CAT40 ER25H-4000	ER25	.039-.629	1.65	4.00	\$130.89	\$92.93	\$37.96
45185	CAT40 ER25H-6000	ER25	.039-.629	1.65	6.00	\$178.75	\$126.91	\$51.84
45186	CAT40 ER32H-2500	ER32	.078-.787	1.97	2.50	\$103.79	\$73.69	\$30.10
45188	CAT40 ER32H-4000	ER32	.078-.787	1.97	4.00	\$130.89	\$92.93	\$37.96
45189	CAT40 ER32H-6000	ER32	.078-.787	1.97	6.00	\$182.63	\$129.67	\$52.96
45191	CAT40 ER40H-2500	ER40	.118-1.023	2.48	2.50	\$138.38	\$98.25	\$40.13
45193	CAT40 ER40H-4000	ER40	.118-1.023	2.48	4.00	\$163.75	\$116.27	\$47.49

CAT 50

UPC#	Description	Series	Tool Dia. Range	Nose Dia. (D) (in)	Gage Length (L) (in)	List Price	Discounted Price 29%	Saving
45197	CAT50 ER16H-4120	ER16	.019-.406	1.26	4.12	\$228.91	\$162.53	\$66.38
45205	CAT50 ER25H-4000	ER25	.039-.629	1.65	4.00	\$228.91	\$162.53	\$66.38
45206	CAT50 ER25H-6000	ER25	.039-.629	1.65	6.00	\$276.77	\$196.50	\$80.26
45208	CAT50 ER32H-4000	ER32	.078-.787	1.97	4.00	\$228.91	\$162.53	\$66.38
45209	CAT50 ER32H-6000	ER32	.078-.787	1.97	6.00	\$276.77	\$196.50	\$80.26
45210	CAT50 ER32H-8000	ER32	.078-.787	1.97	8.00	\$317.13	\$225.16	\$91.97



ER Collet Nuts

UPC#	Description	Series	Thread	Height (in)	Body Dia. (in)	List Price	Discounted Price	Saving
49773	ER11NTM16	ER11	M13 x .75	.47	.63	\$26.94	\$19.13	\$7.81
49780	ER16NTS32	ER16	M22 X 1.5	.67	1.26	\$26.94	\$19.13	\$7.81
49781	ER20NTS35	ER20	M25 X 1.5	.75	1.38	\$29.94	\$21.26	\$8.68
49782	ER25NTS42	ER25	M32 X 1.5	.79	1.65	\$29.94	\$21.26	\$8.68
49783	ER32NTS50	ER32	M40 X 1.5	.89	1.97	\$32.93	\$23.38	\$9.55
49784	ER40NTS63	ER40	M50 X 1.5	1.00	2.48	\$32.93	\$23.38	\$9.55

ER Collet Wrenches

UPC#	Description	Series	Wrench Type	List Price	Discounted Price	Saving
49987	ER11MNWR	ER11	ER Mini	\$41.16	\$29.23	\$11.94
49994	ER16STWR	ER16	ER Standard	\$49.40	\$35.07	\$14.33
49995	ER20STWR	ER20	ER Standard	\$49.40	\$35.07	\$14.33
49996	ER25STWR	ER25	ER Standard	\$49.40	\$35.07	\$14.33
49997	ER32STWR	ER32	ER Standard	\$49.40	\$35.07	\$14.33
49998	ER40STWR	ER40	ER Standard	\$53.89	\$38.26	\$15.63

Integral Keyless Drill Chuck Holders

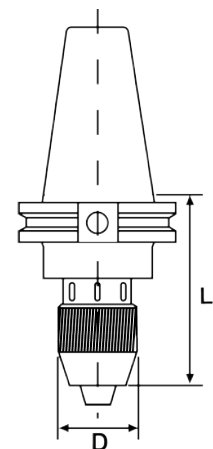


Provides exceptionally high torque, up to three times the gripping strength of conventional drill chucks.

Replaceable chuck.

Features a corrosion-resistant surface treatment to ensure durability.

Chuck will not come off during operation.



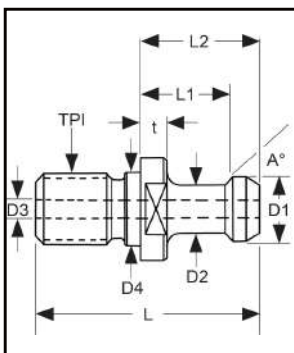
UPC#	Description	Tool Capacity		Gage Length (L) (in)	Body Dia. (D) (in)	List Price	Discounted Price 29%	Saving
		Metric	Inch					
45307	CAT40-KDCH-13	0.81 - 12.70 mm	1/32-1/2	3.50	2.00	\$299.48	\$212.63	\$86.85
45308	CAT40-KDCH-16	3.30 - 16.02 mm	1/8-5/8	4.50	2.25	\$337.60	\$239.70	\$97.90

Quality - Service - Technology

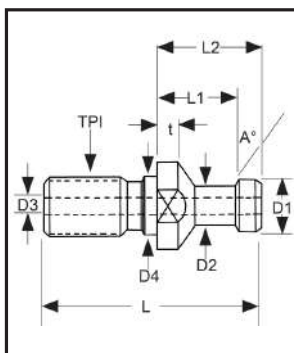
Retention Knobs



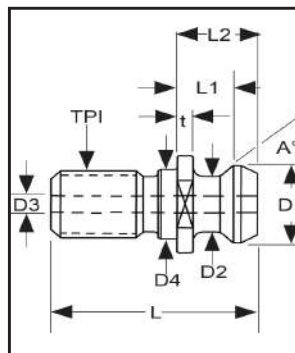
Precision Ground



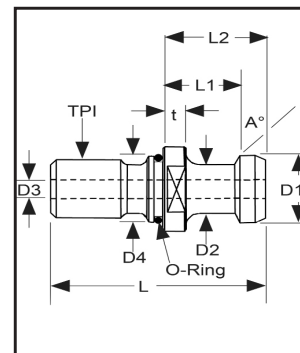
Style 1



Style 2



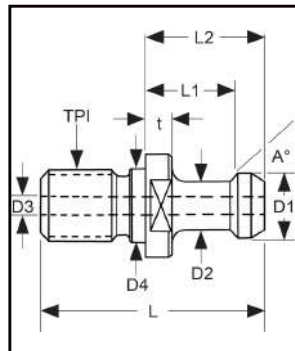
Style 4



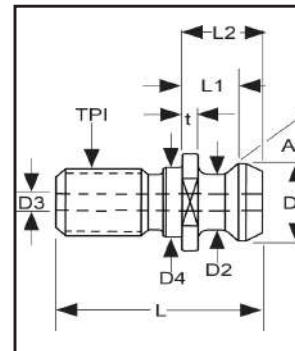
Style 5

CAT 40

UPC #	CAT 40 Description	Machines Used on	Thru Coolant	Style	Threads TPI	A Angle	D1 Knob Dia.	D2 Neck Dia.	D3 Hole Dia.	D4 Pilot Dia.	L OAL	Shoulder			List Price	Discounted Price 29%	Saving
47287	RKCT40-4-0004	Mazak, Fadal, DMG, Hurco	N/A	4	5/8-11	45°	0.740	0.490	NA	0.636	1.620	0.440	0.120	0.640	\$27.62	\$19.61	\$8.01
47286	RKCT40-4-0003-C	Fadal, DMG, Hurco	Coolant	4	5/8-11	45°	0.740	0.490	0.281	0.636	1.620	0.440	0.120	0.640	\$27.62	\$19.61	\$8.01
47831	RKCT40-1-0103	Mori Seiki, OKK, Kira	N/A	1	5/8-11	90°	0.589	0.392	NA	0.636	2.250	0.988	0.234	1.264	\$29.48	\$20.93	\$8.55
47305	RKCT40-1-0022	Bridgeport, Leadwell	N/A	1	5/8-11	45°	0.589	0.392	NA	0.636	2.250	0.988	0.124	1.264	\$29.48	\$20.93	\$8.55
47304	RKCT40-1-0021	Haas, Chevalier, Feeler, Fryer, Johnford	N/A	1	5/8-11	45°	0.589	0.392	NA	0.636	2.250	0.988	0.234	1.264	\$29.43	\$20.90	\$8.54
47313	RKCT40-1-0030-C	Haas, Chevalier, Feeler, Fryer, Johnford	Coolant	1	5/8-11	45°	0.589	0.392	0.200	0.636	2.250	0.988	0.234	1.264	\$29.48	\$20.93	\$8.55
47386	RKCT40-1-0121	Makino, Mitsubishi, Enshu, Hitachi, Kira, Okuma, Milltronics	N/A	1	5/8-11	60°	0.589	0.392	NA	0.636	2.250	0.988	0.234	1.264	\$27.62	\$19.61	\$8.01
47288	RKCT40-4-0005-C	Mazak, Fadal, DMG, Hurco	Coolant	4	5/8-11	45°	0.740	0.490	0.280	0.641	1.620	0.440	0.120	0.640	\$27.62	\$19.61	\$8.01
47359	RKCT40-5-0076-C	Makino	Coolant	5	5/8-11	15°	0.746	0.549	0.236	0.641	2.008	0.792	0.276	1.028	\$29.48	\$20.93	\$8.55
47387	RKCT40-3-0122-C	Mori Seiki	Coolant	2	5/8-11	15°	0.747	0.548	0.236	0.641	2.004	0.787	0.157	1.024	\$27.62	\$19.61	\$8.01
47343	RKCT40-2-0060-C	Kitamura, Doosan, Hyundai, Kia	Coolant	2	5/8-11	15°	0.747	0.549	0.281	0.641	2.004	0.787	0.157	1.024	\$30.59	\$21.72	\$8.87

**Precision Ground**

Style 1



Style 4

CAT 50

UPC #	CAT 50 Description	Machines Used on	Thru Coolant	Style	Threads TPI	A Angle	D1 Knob Dia.	D2 Neck Dia.	D3 Hole Dia.	D4 Pilot Dia.	L OAL	Shoulder				List Price	Discounted Price 29%	Saving
												L1	t	L2				
47292	RKCT50-4-0010	Mazak, DMG, G&L, Hurco, Fadal, Walter Grinders	N/A	4	1-8	45°	1.140	0.820	NA	1.026	2.575	0.700	0.200	1.000		\$39.23	\$27.85	\$11.38
47291	RKCT50-4-0009-C	Mazak, DMG, G&L, Hurco, Fadal	Coolant	4	1-8	45°	1.140	0.820	0.468	1.026	2.575	0.700	0.200	1.000		\$43.06	\$30.57	\$12.49
47320	RKCT50-1-0037-C	OKK	Coolant	1	1-8	90°	0.903	0.668	0.250	1.026	3.350	1.384	0.392	1.778		\$45.45	\$32.27	\$13.18
47319	RKCT50-1-0036-C	Okuma, Hitachi, SNK, Toshiba	Coolant	1	1-8	60°	0.903	0.668	0.335	1.026	3.355	1.384	0.392	1.778		\$46.39	\$32.94	\$13.45
47306	RKCT50-1-0023	Okuma, Hitachi, SNK, Toshiba	N/A	1	1-8	60°	0.903	0.668	NA	1.026	3.355	1.384	0.392	1.778		\$45.45	\$32.27	\$13.18
47308	RKCT50-1-0025-C	Haas, Milltronics, Viper, Enshu, Awea	Coolant	1	1-8	45°	0.903	0.668	0.312	1.026	3.355	1.384	0.392	1.778		\$47.84	\$33.97	\$13.87
47309	RKCT50-1-0026	Haas, Milltronics, Viper, Enshu, Awea	N/A	1	1-8	45°	0.903	0.668	NA	1.026	3.355	1.384	0.392	1.778		\$45.45	\$32.27	\$13.18
47317	RKCT50-1-0034-C	Doosan, Hyundai, Kia	Coolant	1	1-8	45°	0.903	0.668	0.390	1.026	3.355	1.384	0.392	1.778		\$49.30	\$35.00	\$14.30
47388	RKCT50-1-0123-C	Toyoda	Coolant	1	1-8	45°	0.903	0.668	0.236	1.030	3.353	1.384	0.400	1.778		\$44.51	\$31.60	\$12.91
47389	RKCT50-1-0124	Mori Seiki, OKK, Yang	N/A	1	1-8	90°	0.903	0.668	NA	1.026	3.350	1.384	0.392	1.778		\$45.45	\$32.27	\$13.18
47318	RKCT50-1-0035-C	Makino	Coolant	1	1-8	45°	0.903	0.668	0.236	1.026	3.353	1.384	0.392	1.778		\$45.45	\$32.27	\$13.18

Quality - Service - Technology

Ultra-Precision ER Collets

100% Inspection:

Each and every collet is inspected to be precise within .0002" or better prior to shipping.

Maximum Contact Surface Area:

Each Dorian ER Collet features 16 full length slits (instead of competition's 8), enabling the collet to collapse uniformly to provide a concentric and full 360° gripping surface.

Material:

Premium Grade Special Alloy Steel with high a modulus of elasticity. Combined with the 16-slit design, this material provides full surface contact on the tool when collapsed.

Inch and Metric Sizes:

Choice of inch and metric sizes optimizes contact surface area for ultra high precision applications.

**16 SLITS FOR
UNIFORM
GRIPPING**



**ULTRA-PRECISION
.0002" TIR**

ER 11

UPC#	Description	Holding Range (in)	List Price: \$32.96 Discounted Price 38%: \$20.43 Saving: \$12.52
46236	ER11-STIMC-10	0.02 - 0.039	
46237	ER11-STIMC-15	0.039 - 0.059	
46238	ER11-STIMC-20	0.059 - 0.079	
46249	ER11-STIMC-0937	0.074 - 0.094	
46239	ER11-STIMC-25	0.079 - 0.098	
46240	ER11-STIMC-30	0.098 - 0.118	
46250	ER11-STIMC-0125	0.105 - 0.125	
46241	ER11-STIMC-35	0.118 - 0.138	
46242	ER11-STIMC-40	0.138 - 0.157	
46243	ER11-STIMC-45	0.157 - 0.177	
46251	ER11-STIMC-0187	0.168 - 0.188	
46244	ER11-STIMC-50	0.177 - 0.197	
46245	ER11-STIMC-55	0.197 - 0.217	
46246	ER11-STIMC-60	0.217 - 0.236	
46252	ER11-STIMC-0250	0.23 - 0.25	
46247	ER11-STIMC-65	0.236 - 0.256	
46248	ER11-STIMC-70	0.256 - 0.276	

ER 16

UPC#	Description	Holding Range (in)	List Price: \$29.43 Discounted Price 38%: \$18.24 Saving: \$11.18
46290	ER16-STIMC-10	0.02 - 0.039	
46288	ER16-STIMC-15	0.039 - 0.059	
46291	ER16-STIMC-20	0.059 - 0.079	
46275	ER16-STIMC-0937	0.074 - 0.094	
46289	ER16-STIMC-25	0.059 - 0.098	
46292	ER16-STIMC-30	0.079 - 0.118	
46276	ER16-STIMC-0125	0.087 - 0.125	
46293	ER16-STIMC-40	0.118 - 0.157	
46278	ER16-STIMC-0187	0.15 - 0.188	
46294	ER16-STIMC-50	0.157 - 0.197	
46295	ER16-STIMC-60	0.197 - 0.236	
46280	ER16-STIMC-0250	0.213 - 0.25	
46296	ER16-STIMC-70	0.236 - 0.276	
46297	ER16-STIMC-80	0.276 - 0.315	
46298	ER16-STIMC-90	0.315 - 0.354	
46284	ER16-STIMC-0375	0.335 - 0.375	
46299	ER16-STIMC-100	0.354 - 0.394	

ER 20

UPC#	Description	Holding Range (in)	Price List: \$29.43 Discounted Price 38%: \$18.24 Saving: \$11.18
46353	ER20-STIMC-10	0.02 - 0.039	
46354	ER20-STIMC-15	0.039 - 0.059	
46355	ER20-STIMC-20	0.059 - 0.079	
46356	ER20-STIMC-30	0.079 - 0.118	
46386	ER20-STIMC-0937	0.075 - 0.094	
46387	ER20-STIMC-0125	0.087 - 0.125	
46358	ER20-STIMC-40	0.118 - 0.157	
46388	ER20-STIMC-0187	0.15 - 0.188	
46359	ER20-STIMC-50	0.157 - 0.197	
46360	ER20-STIMC-60	0.197 - 0.236	
46389	ER20-STIMC-0250	0.213 - 0.25	
46361	ER20-STIMC-70	0.236 - 0.276	
46362	ER20-STIMC-80	0.276 - 0.315	
46363	ER20-STIMC-90	0.315 - 0.354	
46390	ER20-STIMC-0375	0.335 - 0.375	
46364	ER20-STIMC-100	0.354 - 0.394	
46365	ER20-STIMC-110	0.394 - 0.433	
46367	ER20-STIMC-120	0.433 - 0.472	
46391	ER20-STIMC-0500	0.461 - 0.5	
46368	ER20-STIMC-130	0.472 - 0.512	

**ER 25**

UPC#	Description	Holding Range (in)	List Price: \$31.39 Discounted Price 38%: \$19.46 Saving: \$11.93
46428	ER25-STIMC-10	0.02 - 0.039	
46429	ER25-STIMC-15	0.039 - 0.059	
46430	ER25-STIMC-20	0.059 - 0.079	
46499	ER25-STIMC-0937	0.075 - 0.094	
46431	ER25-STIMC-30	0.079 - 0.118	
46500	ER25-STIMC-0125	0.086 - 0.125	
46433	ER25-STIMC-40	0.118 - 0.157	
46501	ER25-STIMC-0187	0.148 - 0.188	
46434	ER25-STIMC-50	0.157 - 0.197	
46435	ER25-STIMC-60	0.197 - 0.236	
46502	ER25-STIMC-0250	0.211 - 0.25	
46436	ER25-STIMC-70	0.236 - 0.276	
46437	ER25-STIMC-80	0.276 - 0.315	
46438	ER25-STIMC-90	0.315 - 0.354	
46503	ER25-STIMC-0375	0.336 - 0.375	
46439	ER25-STIMC-100	0.354 - 0.394	
46440	ER25-STIMC-110	0.394 - 0.433	
46442	ER25-STIMC-120	0.433 - 0.472	
46517	ER25-STIMC-0500	0.461 - 0.5	
46443	ER25-STIMC-130	0.472 - 0.512	
46444	ER25-STIMC-140	0.512 - 0.551	
46445	ER25-STIMC-150	0.551 - 0.591	
46518	ER25-STIMC-0625	0.586 - 0.625	
46446	ER25-STIMC-160	0.591 - 0.63	

Ultra-Precision ER Collets Sets

UPC#	Collet Series	Description	Total Pcs.	Included in Set:	List Price	Discounted Price 38%	Promo
46768	ER11	ER11-MCS-13C	13	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	\$403.72	\$250.31	\$153.41
46769	ER16	ER16-MCS-10C	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10mm	\$279.54	\$173.31	\$106.23
46770	ER20	ER20-MCS-12C	12	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm	\$335.45	\$207.98	\$127.47
46771	ER25	ER25-MCS-15C	15	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16mm	\$447.26	\$277.30	\$169.96
46772	ER32	ER32-MCS-18C	18	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20mm	\$563.55	\$349.40	\$214.15
46773	ER40	ER40-MCS-23C	23	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26mm	\$857.26	\$531.50	\$325.76

**Quality - Service - Technology**

ER 32

UPC#	Description	Holding Range (in)	List Price: \$32.96 Discounted Price 38%: \$20.43 Saving: \$12.52
46521	ER32-STIMC-20	0.059 - 0.079	
46543	ER32-STIMC-0937	0.075 - 0.094	
46522	ER32-STIMC-30	0.079 - 0.118	
46544	ER32-STIMC-0125	0.086 - 0.125	
46524	ER32-STIMC-40	0.118 - 0.157	
46545	ER32-STIMC-0187	0.148 - 0.188	
46525	ER32-STIMC-50	0.157 - 0.197	
46526	ER32-STIMC-60	0.197 - 0.236	
46546	ER32-STIMC-0250	0.211 - 0.25	
46527	ER32-STIMC-70	0.236 - 0.276	
46528	ER32-STIMC-80	0.276 - 0.315	
46529	ER32-STIMC-90	0.315 - 0.354	
46547	ER32-STIMC-0375	0.336 - 0.375	
46530	ER32-STIMC-100	0.354 - 0.394	
46531	ER32-STIMC-110	0.394 - 0.433	
46533	ER32-STIMC-120	0.433 - 0.472	
46569	ER32-STIMC-0500	0.461 - 0.5	
46534	ER32-STIMC-130	0.472 - 0.512	
46535	ER32-STIMC-140	0.512 - 0.551	
46536	ER32-STIMC-150	0.551 - 0.591	
46570	ER32-STIMC-0625	0.586 - 0.625	
46537	ER32-STIMC-160	0.591 - 0.63	
46538	ER32-STIMC-170	0.63 - 0.669	
46539	ER32-STIMC-180	0.669 - 0.709	
46540	ER32-STIMC-190	0.709 - 0.748	
46571	ER32-STIMC-0750	0.713 - 0.75	
46542	ER32-STIMC-200	0.748 - 0.787	

ER 40

UPC#	Description	Holding Range (in)	List Price: \$39.23 Discounted Price 38%: \$24.32 Saving: \$14.91
46623	ER40-STIMC-30	0.079 - 0.118	
46649	ER40-STIMC-0125	0.087 - 0.125	
46624	ER40-STIMC-40	0.118 - 0.157	
46650	ER40-STIMC-0187	0.15 - 0.188	
46625	ER40-STIMC-50	0.157 - 0.197	
46626	ER40-STIMC-60	0.197 - 0.236	
46651	ER40-STIMC-0250	0.213 - 0.25	
46627	ER40-STIMC-70	0.236 - 0.276	
46628	ER40-STIMC-80	0.276 - 0.315	
46629	ER40-STIMC-90	0.315 - 0.354	
46652	ER40-STIMC-0375	0.335 - 0.375	
46630	ER40-STIMC-100	0.354 - 0.394	
46631	ER40-STIMC-110	0.394 - 0.433	
46633	ER40-STIMC-120	0.433 - 0.472	
46653	ER40-STIMC-0500	0.461 - 0.5	
46634	ER40-STIMC-130	0.472 - 0.512	
46635	ER40-STIMC-140	0.512 - 0.551	
46636	ER40-STIMC-150	0.551 - 0.591	
46683	ER40-STIMC-0625	0.587 - 0.625	
46637	ER40-STIMC-160	0.591 - 0.63	
46638	ER40-STIMC-170	0.63 - 0.669	
46639	ER40-STIMC-180	0.669 - 0.709	
46640	ER40-STIMC-190	0.709 - 0.748	
46642	ER40-STIMC-200	0.748 - 0.787	
46686	ER40-STIMC-0750	0.713 - 0.75	
46643	ER40-STIMC-210	0.787 - 0.827	
46644	ER40-STIMC-220	0.827 - 0.866	
46684	ER40-STIMC-0875	0.835 - 0.875	
46645	ER40-STIMC-230	0.866 - 0.906	
46646	ER40-STIMC-240	0.906 - 0.945	
46647	ER40-STIMC-250	0.945 - 0.984	
46685	ER40-STIMC-1000	0.961 - 1	
46648	ER40-STIMC-260	0.984 - 1.024	



QUIK-SET™ TOOL PRESETTERS

The **Quik-SET Tool Presetter** is a precision instrument designed for speed and simplicity in manufacturing environments or tool cribs. It has been carefully designed to meet the needs of CNC machinists. Its portability and ruggedness makes it the best presetter for small to medium machine shops.

The pre-loaded "Recirculating Ball Bearing Cage Over Precision Ground Guide" in the X-axis allows for accurate and smooth positioning to measure tool diameters, while the Z-axis can be locked to preset or re-set tool lengths quickly and precisely.

- Reduces setup time
- Excellent Precision and Repeatability
- Best Technology & Workmanship at the Lowest Price in the Industry
- Built for Shop Environment
- Made In Italy

Precision

- Resolution .0005in
- Accuracy $\pm .0005$ in
- Repeatability .0005in
- Axis Squareness .0002in TIR

Up to 4 Machine Origins

Absolute/Incremental Modes

Radius/Diameter Mode

Inch/mm modes

.0005 in resolution



Powered by AA Batteries

Hardened Probe

Interchangeable Rotating Tool Sleeve

Heat Treated Heavy Duty Base

Fine Adjustment Knob

Clearance for CAT50 Tools with raised legs

Recirculating Ball Bearing Cage Over Precision Ground Guide

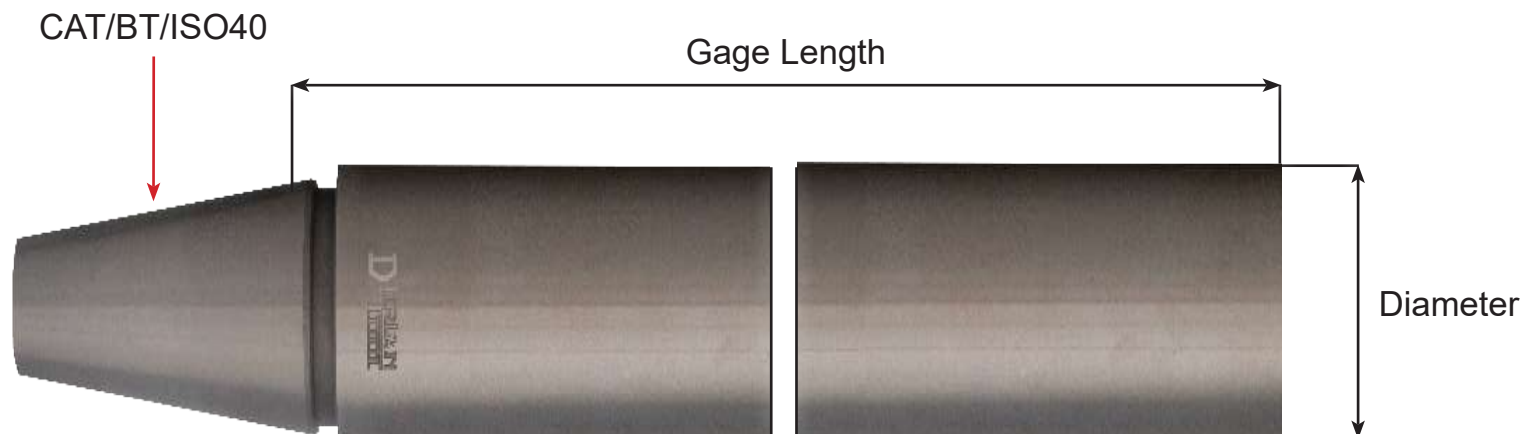
UPC #	42001	42030	42032	42034
Quik-SET Model	Quik-SET- Z300	Quik-SET- Z400	Quik-SET- XM	Quik-SET- Z600
List Price	\$3,780.93	\$5,634.44	\$6,737.30	\$8,737.22
Discounted Price 12.5%	\$3,308.31	\$4,930.14	\$5,895.14	\$7,645.07
Saving	\$472.62	\$704.31	\$842.163	\$1,092.15
Accuracy	±.0005	±.0005	±.0005	±.0005
Height Capacity (Z)	11.8 in	15.8 in	11.8 in	23.6 in
Diameter Capacity (X)	10.0 in	10.0 in	15.8 in	23.6 in
Measuring Method	Contact Probe			
Power Input	AA Batteries			
Warranty	One Year			
Each Presetter Supplied Standard with CAT/ISO/BT-40 Tool Sleeve				



Quality - Service - Technology



QUIK-SET™ TOOL PRESETTERS ACCESORIES



Test Bar		
Style	ISO 40, 2.0" Dia. x 6.0" Length	ISO 40, 2.0" Dia. x 12.0" Length
UPC #	42071	42072
Gage Diameter	2.00"	2.00"
Gage Length	6.00"	12.00"
Price List	\$715.18	\$1,143.73
Discounted Price 12.5%	\$625.63	\$1,050.52
Saving	\$86.78	\$142.30



Interchangeable
Rotating Tool
Sleeve

Quik-SET Optional Tool Sleeves									
Style	ISO20	ISO30	ISO40	ISO50	HSK-40A/50F	HSK50A/63C	HSK63A/63F	HSK80A	HSK100A
UPC #	42073	42066	42068	42070	42076	42077	42078	42079	42080
List Price	\$643.34	\$643.34	\$643.34	\$643.34	\$643.34	\$643.34	\$643.34	\$1,345.58	\$1,345.58
Discounted Price 12.5%	\$562.92	\$562.92	\$562.92	\$562.92	\$562.92	\$562.92	\$562.92	\$1,177.38	\$1,177.38
Savings	\$80.42	\$80.42	\$80.42	\$80.42	\$80.42	\$80.42	\$80.42	\$168.20	\$168.20

SMART TOOL-SETTER TIGHTENING FIXTURES



Rotate the handle to lock the tool positively.

Up to
12.5%
off!

Pull the Knob to unlock the Tool-Setter and rotate to position. Release the knob to lock in place.



Left Hand



Vertical



Right Hand

UPC #	Description	Tool Size	List Price	Discounted Price 12.5%	Saving
36000	DSTSCH-030	BT-30	\$452.94	\$396.32	\$56.62
36001	DSTSCH-040	BT-40 CAT-40	\$452.94	\$396.32	\$56.62
36002	DSTSCH-050	BT-50 CAT-50	\$540.83	\$473.22	\$67.60
36003	DSTSHSK-063	HSK-063	\$614.57	\$537.75	\$76.82
36004	DSTSHSK-100	HSK-100	\$652.97	\$571.35	\$81.62

Toolholder Taper Protected From Chips & Scratches

- Multi-Functional
- Quick Lock & Setting
- Multi-Position Setting
- Heavy Duty Construction
- Teflon Based Xylan Coating
- Precise Quality & Workmanship
- Holds CAT, BT or HSK Toolholders

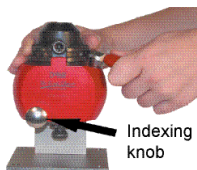
Mounting

Mounting Holes

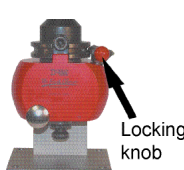


Mount the Smart Tool-Setter on a solid workbench. Use the 4 holes provided on the base to bolt down the Smart Tool-Setter.

Holder Loading



Put holder in while locking knob is in unlocked position. Rotate locking knob to locked position to lock holder on the V-groove located on the diameter of the holder. Locking knob positively locks the tool in and does not allow tool to come out of place.



Application

The Smart Tool-Setter's precise and heavy duty construction make the tool-setter very rigid and able to endure extreme forces without causing any damage to tools or the Smart Tool-Setter. The multi-functioning and positioning of the Smart Tool-Setter allow the operator to switch quickly and easily from one operation to another without loss of time.

Small Tool Change



Endmills can be easily, quickly, and precisely set with the Smart Tool-Setter.

Large Tool Change



Large tools can be mounted or removed with the Smart Tool-Setter.

Positioning



Vertical



Horizontal Left Hand



Horizontal Right Hand

Pull the indexing knob to unlock, turn into a new position, and release the indexing knob to lock.

Pull Stud Change



Pull Studs can be quickly and easily changed using the Smart Tool-Setter.

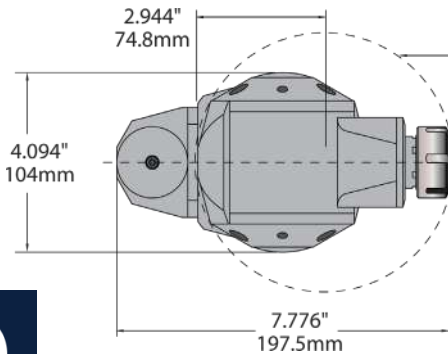
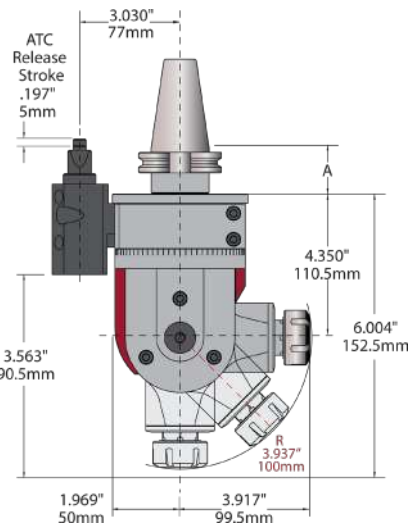
Quality - Service - Technology

Adjustable Angle Heads

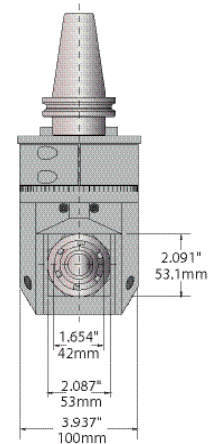
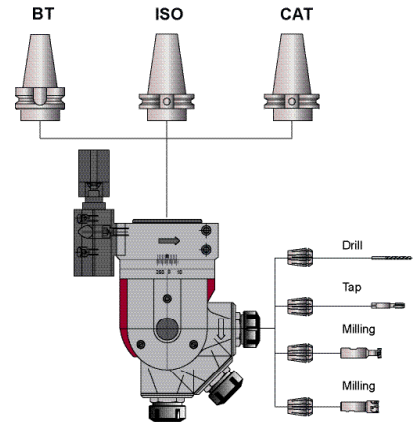
ER25 Series Collet System

Up to
12.5%
off!

- Capable of machining in two axial positioning angles
- Automatic tool change capability*
- Made In Italy



Interchangeable Modular Taper Holders



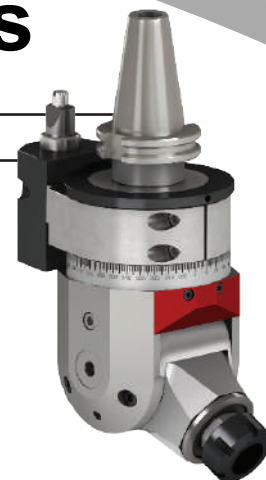
ER25	UPC #		Description	Shank Style	Torque lb.ft	Driving Ratio	Max RPM	A Gage Line	Collet Size	Max Tool Cap. Dia.	Max Tap Size	*Max Slotting Cutter O.D.	**Weight	List Price	Discounted Price 12.5%	Saving
	45951	PLCNC-AAH-ER25-40DIN69871	ISO40-DIN69871	11	1 to 1	4000	1.378	ER25	0.625	0.625	1.250	25 lb	\$7,750.66	\$6,781.82	\$968.83	
	45952	PLCNC-AAH-ER25-BT40	BT40				1.457									
	45953	PLCNC-AAH-ER25-CAT40	CAT40				1.378									
	45955	PLCNC-AAH-ER25-50DIN69871	ISO50-DIN69871				1.457									
	45956	PLCNC-AAH-ER25-BT50	BT50				2.047					29 lb				
	45957	PLCNC-AAH-ER25-CAT50	CAT50				1.457									

Adjustable Angle Heads

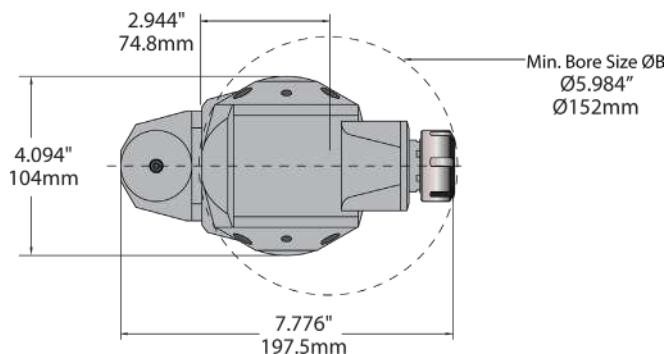
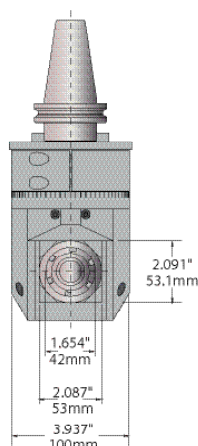
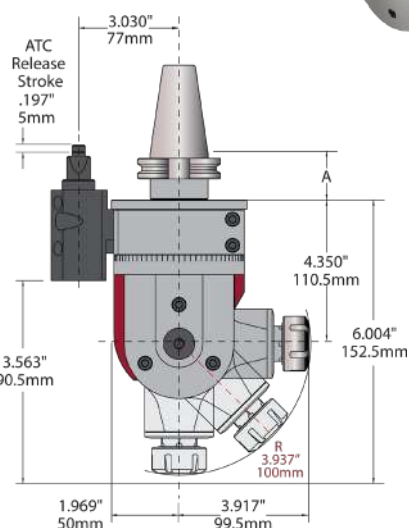
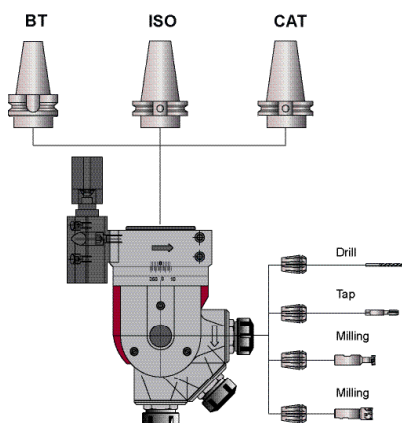
Up to
12.5%
off!

ER32 Series Collet System

- Capable of machining in two axial positioning angles
- Automatic tool change capability*
- Made In Italy



Interchangeable Modular Taper Holders



ER32	UPC #	Description	Shank Style	Torque lb.ft	Driving Ratio	Max RPM	A Gage Line	Collet Size	Max. Tool Cap. Dia.	Max. Tap Size	*Max Slotting Cutter O.D.	**Weight	List Price	Discounted Price 12.5%	Saving
	45941	PLCNC-AAH-ER32-40DIN69871	ISO40-DIN69871	29.5	1 to 1	3500	1.378	ER32	0.750	0.812	1.500	49.2 lb	\$11,235.97	\$9,831.48	\$1,404.50
	45942	PLCNC-AAH-ER32-BT40	BT40				1.457								
	45943	PLCNC-AAH-ER32-CAT40	CAT40				1.378								
	45961	PLCNC-AAH-ER32-50DIN69871	ISO50-DIN69871				1.457								
	45962	PLCNC-AAH-ER32-BT50	BT50				2.047					53.2lb			
	45963	PLCNC-AAH-ER32-CAT50	CAT50				1.457								

Quality - Service - Technology

Right Angle Heads

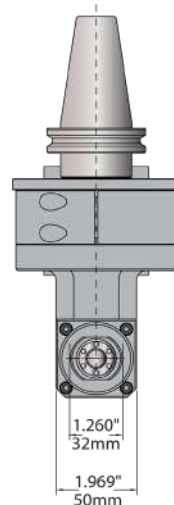
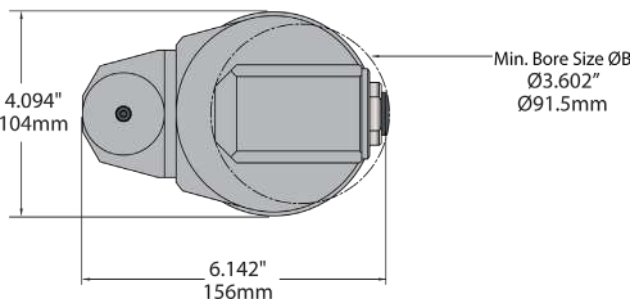
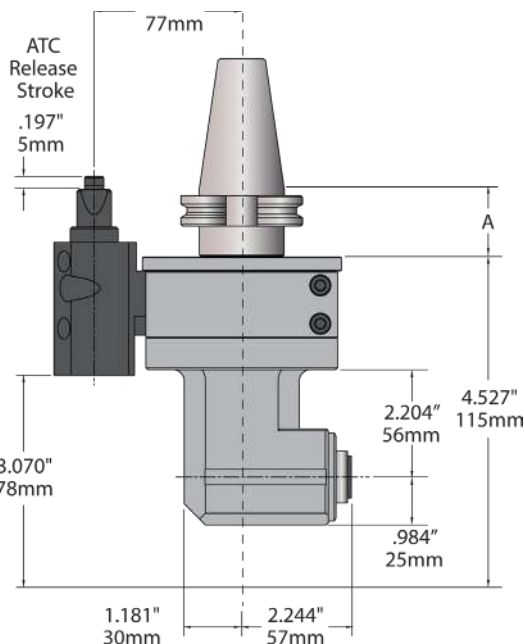
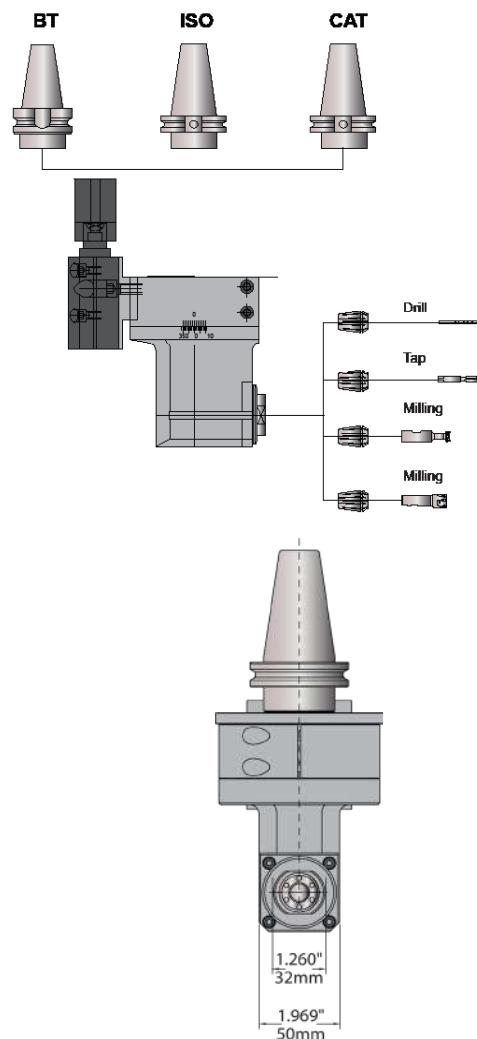


ER16 Series Collet System

- Fixed 90° angle head with 0- 360° circular rotation
- Automatic tool change capability*
- Made In Italy

Up to
12.5%
off!

Interchangeable Modular Taper Holders



ER16	UPC #		Description	Shank Style	Torque lb.ft	Driving Ratio	Max RPM	A Gage Line	Collet Size	Max. Tool Cap. Dia.	Max. Tap Size	*Max Slotting Cutter O.D.	**Weight	List Price	Discounted Price 12.5%	Saving
	45966	90CNC-AAH-ER16-40DIN69871	ISO40-DIN69871	4.8	1 to 1	4000	1.378	ER16	0.375	0.312	1.00"	17.3 lb	\$5,561.52	\$4,831.29	\$690.18	
	45967	90CNC-AAH-ER16-BT40	BT40				1.457									
	45968	90CNC-AAH-ER16-CAT40	CAT40				1.378									
	45970	90CNC-AAH-ER16-50DIN69871	ISO50-DIN69871				1.457					21.3 lb				
	45971	90CNC-AAH-ER16-BT50	BT50				2.047									
	45972	90CNC-AAH-ER16-CAT50	CAT50				1.457									

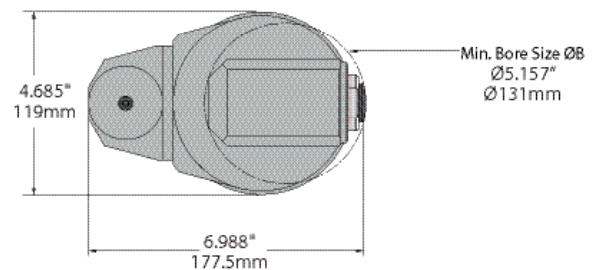
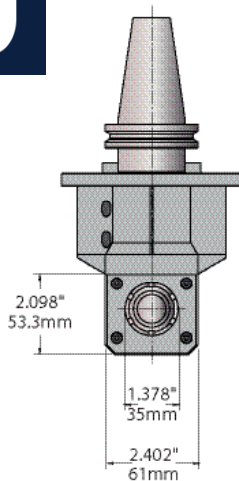
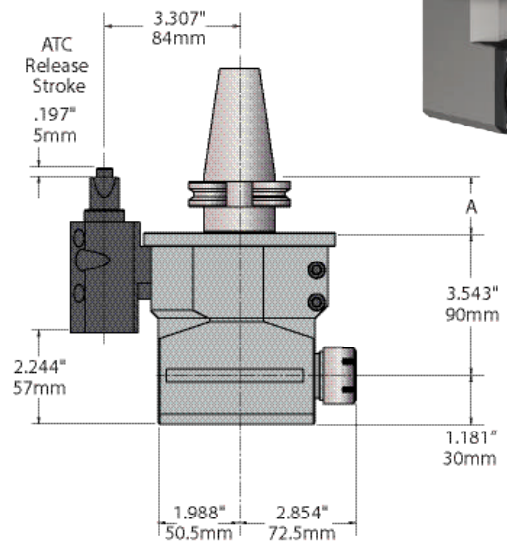
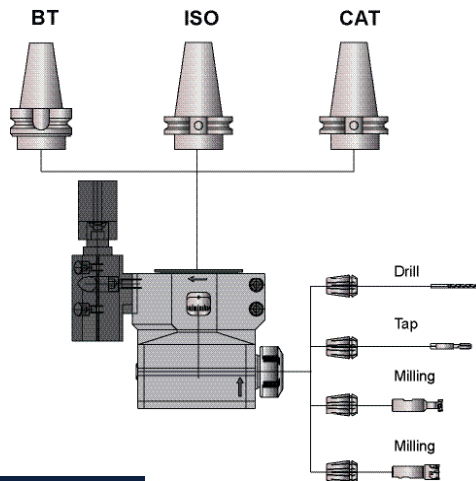
Right Angle Heads

Up to
12.5%
off!

ER25 Series Collet System

- Fixed 90° angle head with 0- 360° circular rotation
- Automatic tool change capability*
- Made In Italy

Interchangeable Modular Taper Holders



ER25	UPC #		Description	Shank Style	Torque lb.ft	Driving Ratio	Max RPM	A Gage Line	Collet Size	Max. Tool Cap. Dia.	Max. Tap Size	*Max Slotting Cutter O.D.	**Weight	List Price	Discounted Price 12.5%	Saving
	45975	90CNC-AAH-ER25-40DIN69871	ISO40-DIN69871	14.7	1 to 1	3500	1.378	ER25	0.625	0.625	1.250	17.3 lb	\$6,392.24	\$5,593.21	\$799.03	
	45976	90CNC-AAH-ER25-BT40	BT40				1.457									
	45977	90CNC-AAH-ER25-CAT40	CAT40				1.378									
	45979	90CNC-AAH-ER25-50DIN69871	ISO50-DIN69871				1.457									
	45980	90CNC-AAH-ER25-BT50	BT50				2.047					21.3 lb				
	45981	90CNC-AAH-ER25-CAT50	CAT50				1.457									

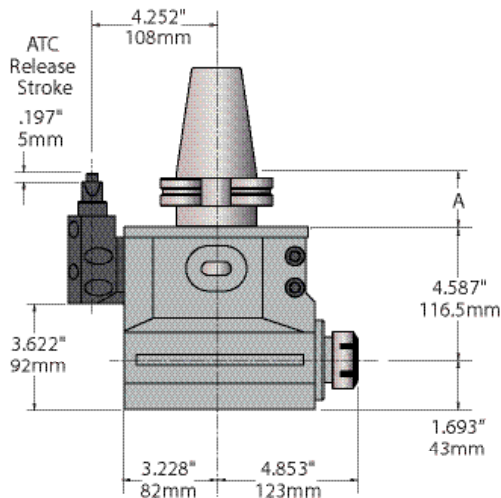
Quality - Service - Technology

Right Angle Heads

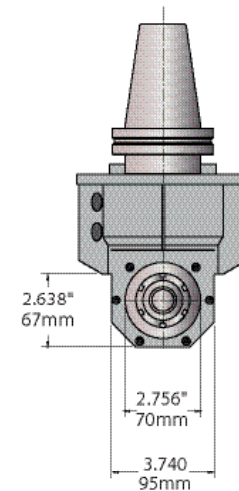
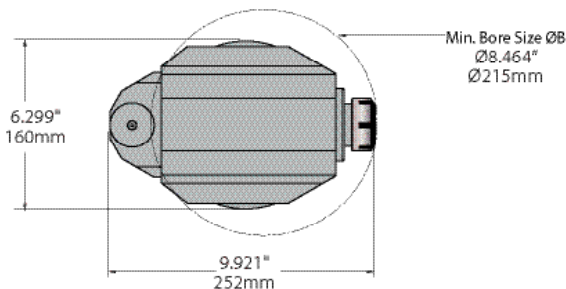
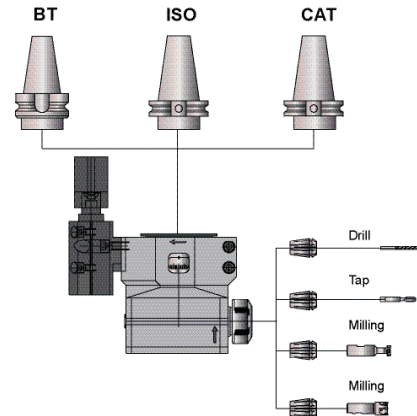
ER32 Series Collet System

- Fixed 90° angle head with 0- 360° circular rotation
- Automatic tool change capability
- Made In Italy

Up to
12.5%
off!



Interchangeable Modular Taper Holders



ER32	UPC #		Description	Shank Style	Torque lb. ft	Driving Ratio	Max RPM	A Gage Line	Collet Size	Max. Tool Cap. Dia.	Max. Tap Size	*Max Slotting Cutter O.D.	**Weight (Lb)	List Price	Discounted Price 12.5%	Saving
	45984	90CNC-AAH-ER32-40DIN69871	ISO40-DIN69871	44	1 to 1	3500	1.378	ER32	0.750	0.812	1.500	47 lb	\$7,887.99	\$6,901.99	\$986.00	
	45985	90CNC-AAH-ER32-BT40	BT40				1.457									
	45986	90CNC-AAH-ER32-CAT40	CAT40				1.378									
	45988	90CNC-AAH-ER32-50DIN69871	ISO50-DIN69871				1.457					51 lb				
	45989	90CNC-AAH-ER32-BT50	BT50				2.047									
	45990	90CNC-AAH-ER32-CAT50	CAT50				1.457									

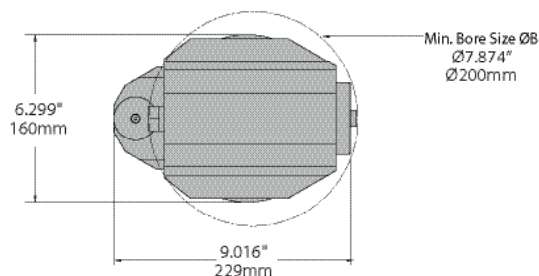
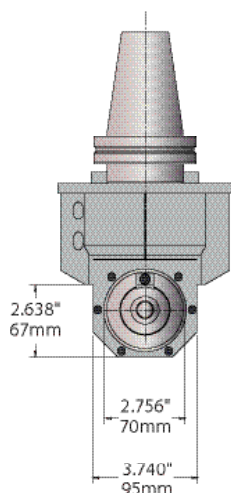
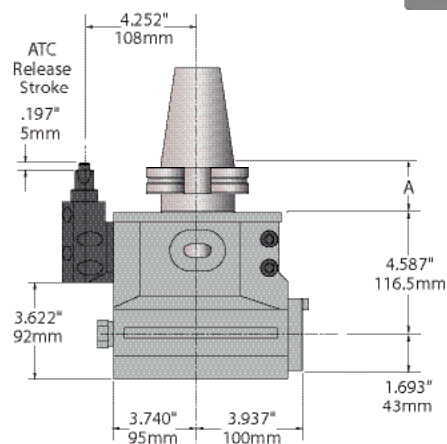
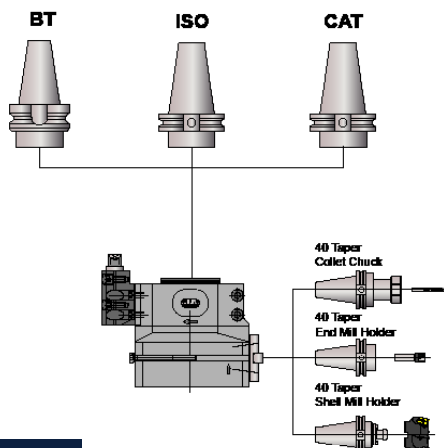
Right Angle Heads

Up to
12.5%
off!

ISO40 / BT40 / CAT40 Series Collet System

- Engineered to accept any CAT, ISO, or BT-40 taper holder
- Fixed 90° angle head with 0- 360° circular rotation
- Automatic tool change capability
- Made In Italy

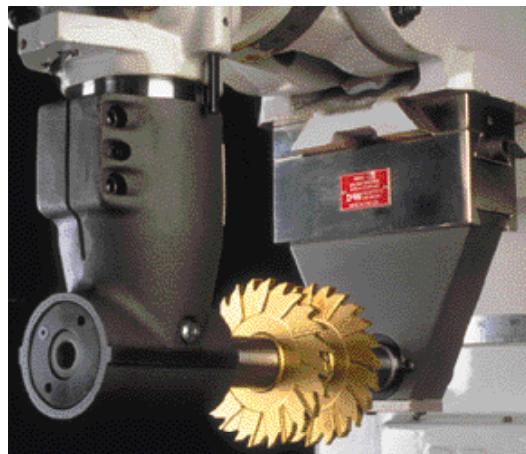
Interchangeable Modular Taper Holders



CAT40	UPC #	Description	Shank Style	Torque lb. ft	Driving Ratio	Max RPM	A Gage Line	Output	*Max Slotting Cutter O.D.	**Weight (Lb)	List Price	Discounted Price 12.5%	Saving	
	45934	90CNC-AAH-TP40-40DIN69871	ISO40-DIN69871	29.5	1 to 1	2000	1.378	ISO40 CAT40 BT40	2.000	47 lb	\$8,670.82	\$7,586.96	\$1,083.85	
	45935	90CNC-AAH-TP40-BT40	BT40				1.457							
	45936	90CNC-AAH-TP40-CAT40	CAT40				1.378							
	45994	90CNC-AAH-TP40-50DIN69871	ISO50-DIN69871				1.457							
	45995	90CNC-AAH-TP40-BT50	BT50				2.047			51 lb				
	45996	90CNC-AAH-TP40-CAT50	CAT50				1.457							

Quality - Service - Technology

R8 Right Angle Milling Attachment for Vertical Milling Machines



Features

For Manual Milling Machines

Ductile Iron Body

Precision Hardened & Ground

Spiral Bevel Gears

Sealed High Speed Bearings

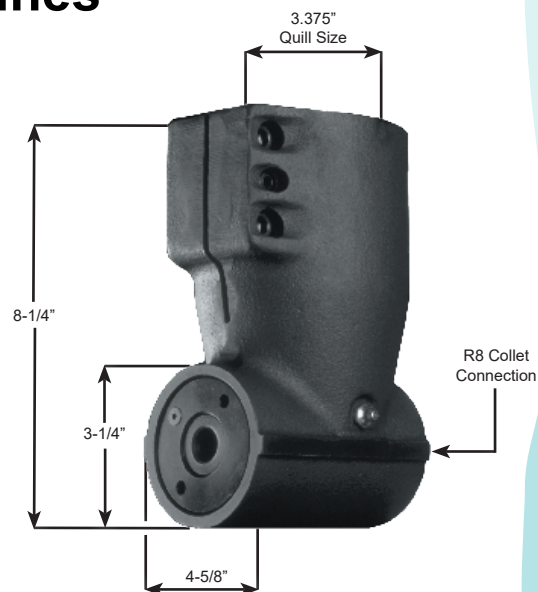
1.33 to 1 Gear Ratio

Grease Fitting

Alignment Flats on 2 Sides

R-8 Collet Spindle

Spindle Concentricity 0.0001"



R8 Milling Attachment

UPC #	Description	Output	Quill	List Price	Discounted Price 12.5%	Saving
04000	MMRAA-R8	R8	3 3/8" Diameter	\$1,399.86	\$1,224.88	\$174.98

Milling Machine Draw Bar



Special Draw Bars to be used with R8 Milling Attachment

UPC #	Description	Machine Type	Bar Length	Hex Length	List Price	Discounted Price 12.5%	Saving
04090	BDBRA-2J800	Bridgeport Kondia	18.000	8.500	\$58.21	\$50.94	\$7.28
04092	ILBRA-110	Index Lagun	18.000	11.500	\$63.76	\$55.79	\$7.97
04094	ADBRA-190	Alliant-Sharp	18.000	9.500	\$66.53	\$58.21	\$8.32

Standard Draw Bars

UPC #	Description	Machine Type	Bar Length	Hex Length	List Price	Discounted Price 12.5%	Saving
04080	SDB-1J	1 J Head Bridgeport Step Pully	18.000	2.500	\$42.75	\$37.40	\$5.34
04082	SDB-2J	2 J Head Bridgeport Variable Speed	18.000	5.500	\$44.35	\$38.81	\$5.54
04084	SDB-AS	Alliant-Sharp	18.000	6.500	\$47.12	\$41.23	\$5.89
04086	SDB-IL	Index Lagun	18.000	8.500	\$49.90	\$43.66	\$6.24

Features

Two pieces construction.

Hex handles & rods are secured with safety pin to threaded connection.

Special surface heat treatment meant for threads longevity.

Black oxide for rust prevent.