



Shell Mill
Holder
35YJ20



CV40 Toolholders

These toolholders securely grip and center rotary cutting tools to enable them to make accurate cuts. **End mill holders** attach end mills to a milling machine. They grip more securely than a collet to keep end mills from spinning or pulling out during heavy cuts.

Shell mill holders secure shell mills and face mills to a milling machine.

Shrink-fit toolholders use thermal contraction rather than mechanical tightening to get a strong, uniform grip on cutting tools. They provide more gripping force, better balance, and higher concentricity in high-speed machining applications than collets, milling chucks, or hydraulic chucks.

Bore Dia.	Projection	Nose Dia.	Coolant Fed	Item No.
End Mill Holder				
1/4 in	2 1/2 in	0.7800 in	—	35YJ29
	4.7200 in	0.7800 in	Coolant Through	40M220
	6 in	0.7800 in	Coolant Through	40M222
5/16 in	2 1/2 in	1/8 in	Coolant Through	40M227
	2 1/2 in	1 in	—	35YJ31
3/8 in	5 in	1 in	Coolant Through	40M238
7/16 in	2 1/2 in	1.1300 in	Coolant Through	40M243
	1 3/4 in	1 1/4 in	—	35YJ33
1/2 in	2 1/2 in	1 1/4 in	Coolant Through	40M247
	4.7200 in	1.3800 in	Coolant Through	40M248
	1 3/4 in	1 1/2 in	Coolant Through	40M253
3/8 in	3 3/4 in	1 1/2 in	Coolant Through	40M259
	5 3/4 in	1 1/2 in	Coolant Through	40M259
	1 3/4 in	1 3/4 in	—	35YJ38
3/4 in	3 in	1 3/4 in	—	35YJ37
	5 in	1 3/4 in	Coolant Through	40M267
	1 1/4 in	2 in	—	35YJ43
	3 in	2 in	—	35YJ41
1 in	4 in	2 in	—	35YJ40
	6 in	2 in	—	35YJ42
	2 in	2 1/2 in	Coolant Through	40M274
1 1/4 in	2 in	2 1/2 in	Coolant Through	40M275
	4 in	2 1/2 in	Coolant Through	40M273
1 1/2 in	4 in	2 1/2 in	Coolant Through	40M273
Shell Mill Holder				
	1.3700 in	3/8 in	Non-Coolant Through	35YJ20
—	2-1/16 in	1.1900 in	Non-Coolant Through	35YJ22
	4 in	3/8 in	Non-Coolant Through	35YJ21
	4 in	1.1900 in	Non-Coolant Through	35YJ23
Shrink Fit Tool Holder				
	3 in	0.9400 in	Coolant Through	35YJ55
—	3.9400 in	21.00mm	Coolant Through	35YJ56



35YJ07



Collet Chuck

■ Coolant-Through

Collet chucks connect collets to milling machines, lathes, and other manual and CNC machine tools so that the collets can hold small-diameter tools and workpieces securely on the machine.

Projection	Nose Dia.	Max. Collet Capacity	Min. Collet Capacity	Item No.
1.1000 in	1.5700 in	0.787 in	0.0390 in	35YJ07
2.7600 in	1.0800 in	0.406 in	0.0200 in	35YH99
2.7600 in	1.3400 in	0.512 in	0.0200 in	35YJ02
2 1/2 in	1.6500 in	0.750 in	0.0390 in	40MY80
2.7600 in	1.9700 in	0.787 in	0.0390 in	35YJ06
3.1500 in	2.4800 in	1.024 in	0.0860 in	40MG61
4 in	1.0800 in	0.406 in	0.0200 in	35YJ01
4 in	1.6500 in	0.750 in	0.0390 in	40MG58
6 in	1.6500 in	0.750 in	0.0390 in	35YJ05
6 in	1.9700 in	0.787 in	0.0390 in	35YJ09



Shell Mill Holders

These holders are quick and easy to set up and accommodate face mills with bore diameters ranging from 1/2" to 2". Pilot diameter sized for precision fit with cutter. Include removable/replaceable drive keys and arbor screw.

Taper Size	Pilot Dia.	Pilot Length	Projection	Body Dia.	Lock Screw Thread Size	Item No.
BT30	3/4 in	0.6700 in	1.1900 in	1.929"	3/8"-24	38NV45
	1 in	0.6700 in	1.1900 in	2.382"	1/2"-20	38NV46
	1 1/2 in	0.5700 in	1 3/4 in	1.378"	1/4"-28	38NW08
BT40	1 in	0.6700 in	1 3/4 in	2.382"	1/2"-20	38NW10
	1 1/2 in	0.9200 in	2 in	3.799"	3/4"-16	38NW11
	1 in	0.6800 in	1 3/4 in	2.382"	1/2"-20	38NX21
BT50	1 in	0.6800 in	4 in	2.382"	1/2"-20	38NX68
	1 1/4 in	0.6800 in	2 in	2.882"	5/8"-18	38NX22
	1 1/4 in	0.6800 in	6 in	2.882"	5/8"-18	38NX89
CV40	1 1/2 in	0.9300 in	2 in	3.799"	3/4"-16	38NX23
	2 in	0.9300 in	2 in	4.382"	1-14	38NX24
	1/2 in	0.5700 in	1 3/4 in	1.378"	1/4"-28	38NZ74
CV40	3/4 in	0.6700 in	1 3/4 in	1.929"	3/8"-24	38NZ75
	1 in	0.6700 in	4 in	1.929"	3/8"-24	38PA47
	1 1/4 in	0.6700 in	2 in	2.882"	5/8"-18	38NZ77
CV40	1 1/4 in	0.6700 in	4 in	2.882"	5/8"-18	38PA49
	1 1/2 in	0.9300 in	4 in	3.799"	3/4"-16	38PA50



ER Milling and Drilling Collets

- Heat-treated for improved flexibility and durability
- Made from high-carbon bearing steel

042 Series—Precision collets feature a collapse range of 0.039" and an average T.I.R. of 0.0002". Can be used with RD, DR, ESX, and BR collet chucks.

045 Series—Steel-sealed precision coolant collets are sealed to 2000 psi with no plugs to fail. They protect the toolholder from contaminants. Can be used with ER, RD, DR, ESX, and BR collet chucks.

Collet Series	Size	Mfr. Model	Item No.
Fractional 042 Series			
ER16	1/16 in	04216-1/16	40MM62
	3/32 in	04216-3/32	40MM67
	1/8 in	04216-1/8	35YG76
	9/32 in	04216-5/32	40MM68
	3/16 in	04216-3/16	35YG77
	7/32 in	04216-7/32	40MM69
	1/4 in	04216-1/4	35YG75
	9/32 in	04216-9/32	40MM70
	5/16 in	04216-5/16	35YG79
	11/32 in	04216-11/32	40MM65
	3/8 in	04216-3/8	35YG78
	13/32 in	04216-13/32	40MM66
ER20	1/16 in	04220-1/16	40MM87
	3/32 in	04220-3/32	40MM95
	1/8 in	04220-1/8	35YG84
	9/32 in	04220-5/32	40MM96
	3/16 in	04220-3/16	35YG88
	7/32 in	04220-7/32	40MM98
	1/4 in	04220-1/4	35YG83
	9/32 in	04220-9/32	40MM99
	5/16 in	04220-5/16	35YG90
	11/32 in	04220-11/32	40MM90
	3/8 in	04220-3/8	35YG89
	13/32 in	04220-13/32	40MM94
ER32	1/16 in	04240-1/16	40MM97
	3/32 in	04240-3/32	35YG87
	1/8 in	04240-1/8	35YG82
	9/32 in	04240-5/32	35YG81
	3/16 in	04240-3/16	35YG85
	7/32 in	04240-7/32	35YG86
	1/4 in	04240-1/4	35YG83
	9/32 in	04240-9/32	35YG89
	5/16 in	04240-5/16	35YG90
	11/32 in	04240-11/32	35YG91
	3/8 in	04240-3/8	35YG92
	13/32 in	04240-13/32	35YG93
ER40	1/16 in	04544-1/16	35YH31
	3/32 in	04544-3/32	35YH47
	1/8 in	04546-1/8	35YH37
	9/32 in	04546-5/32	35YH46
	3/16 in	04546-3/16	35YH39
	7/32 in	04546-7/32	35YH45
	1/4 in	04547-1/4	35YH48
	9/32 in	04544-9/32	35YH31
	5/16 in	04544-5/16	35YH31
	11/32 in	04544-11/32	35YH31
	3/8 in	04544-3/8	35YH31
	13/32 in	04544-13/32	35YH31

BT30
38NV45

Taper Size	Pilot Dia.	Pilot Length	Projection	Body Dia.	Lock Screw Thread Size	Item No.
CV50	3/4 in	0.6700 in	1 3/4 in	1.929"	3/8"-24	38PC43
	1 in	0.6700 in	4 in	1.929"	3/8"-24	38PD21
	1 1/2 in	0.6700 in	6 in	1.929"	3/8"-24	38PD60
	1 in	0.6700 in	3 in	1.929"	3/8"-24	38PD90
	1 in	0.6900 in	1 3/4 in	2.382"	1/2"-20	38PC44
	1 in	0.6900 in	4 in	2.382"	1/2"-20	38PD22
	1 in	0.6900 in	6 in	2.382"	1/2"-20	38PD61
	1 in	0.6900 in	8 in	2.382"	1/2"-20	38PD91
	1 1/4 in	0.6900 in	1 3/4 in	2.882"	5/8"-18	38PC45
	1 1/4 in	0.6900 in	4 in	2.882"	5/8"-18	38PD23
	1 1/2 in	0.9300 in	2 in	3.799"	3/4"-16	38PC46
	1 1/2 in	0.9300 in	4 in	3.799"	3/4"-16	38PD24
HSK100A	1 1/2 in	0.9300 in	6 in	3.799"	3/4"-16	38PD63
	1 1/2 in	0.9300 in	8 in	3.799"	3/4"-16	38PD93
	2 in	0.9300 in	4 in	4.382"	1-14	38PD25
	3/4 in	0.6690 in	6 in	1.693"	3/8"-24	38PW60
	1 in	0.6690 in	4 in	2.165"	1/2"-20	38PW61
	1 in	0.6690 in	6 in	2.165"	1/2"-20	38PW62
	1 1/4 in	0.6690 in	6 in	2.756"	5/8"-18	38PW63
	2 in	0.9020 in	4 in	4.488"	1-14	38PW64
	3/4 in	0.6700 in	2 3/4 in	1.690"	3/8"-24	38PW93
	1 in	0.6700 in	2 3/4 in	2.170"	1/2"-20	38PW94
	3/4 in	0.6690 in	3 in	1.693"	3/8"-24	38PX71
	1 in	0.6690 in	3 in	2.165"	1/2"-20	38PX73
HSK63A	1 1/4 in	0.6690 in	5 in	2.756"	5/8"-18	38PX74
	1 1/2 in	0.5700 in	1 1/4 in	1.378"	1/4"-28	38PZ17
	1 1/4 in	0.6700 in	1.3100 in	1.929"	3/8"-24	38PZ18
	1 in	0.6700 in	1.3100 in	2.382"	1/2"-20	38PZ19
	1 in	0.6700 in	1 1/2 in	2.382"	1/2"-20	38PZ92
	3/4 in	0.6900 in	1 in	2"	3/8"-24	38NV26
	1 in	0.6900 in	1 in	2.380"	1/2"-20	38NV27
	1 1/4 in	0.6900 in	1 in	2.880"	5/8"-18	38NV28
	1 1/2 in	0.9400 in	1 3/4 in	3.500"	3/4"-16	38NV29



042/ER-16
Series

Collet Series	Size	Mfr. Model	Item No.
ER25	3/32"	04225-3/32	40MN23
	1/8"	04225-1/8	35YG93
	9/32"	04225-5/32	40MN25
	1/4"	04225-3/16	40MN22
	7/32"	04225-7/32	40MN27
	1/2"	04225-1/4	35YG92
	9/32"	04225-9/32	40MN29
	5/16"	04225-5/16	40MN24
	11/32"	04225-11/32	40MN17
	3/8"	04225-3/8	35YG95
	13/32"	04225-13/32	40MN18
	7/16"	04225-7/16	40MN26
	15/32"	04225-15/32	40MN19
	1/2"	04225-1/2	35YG91
	11/32"	04225-11/32	40MN20
	9/16"	04225-9/16	40MN28
ER32	19/32"	04225-19/32	40MN21
	5/8"	04225-5/8	35YG96
	3/4"	04225-3/4	35YG94
	9/32"	04232-3/32	35YH11
	1/8"	04232-1/8	35YH03
	9/32"	04232-5/32	35YH15
	3/16"	04232-3/16	35YH10
	1/4"	04232-1/4	35YH02
	5/16"	04232-5/16	35YH14
	3/8"	04232-3/8	35YH13
	7/16"	04232-7/16	35YH17
	1/2"	04232-1/2	35YH01
	9/16"	04232-9/16	35YH18
	19/32"	04232-19/32	35YH08
	5/8"	04232-5/8	35YH16
	11/16"	04232-11/16	35YH06
ER40	3/4"	04232-3/4	35YH12
	7/8"	04240-1/8	35YH22
	1/4"	04240-1/4	35YH21
	13/32"	04240-11/32	35YH23
	3/8"	04240-3/8	35YH25
	1/2"	04240-1/2	35YH20
	3/4"	04240-3/4	35YH24
	7/8"	04240-7/8	35YH26
	1"	04240-1	35YH19
	045 Series		
ER20	9/16"	04544-5/16	35YH31
	7/16"	04546-7/16	35YH47
ER32	1/2"	04546-1/2	35YH37
	5/8"	04546-5/8	35YH46
	11/16"	04546-11/16	35YH39
	3/4"	04546-3/4	35YH45
ER40	1"	04547-1	35YH48