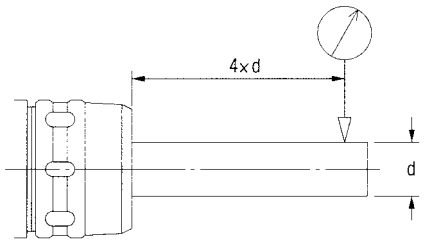
ACE LOCK Milling Chucks



Run-out accuracy:

10 µm/0.0004" at the distance of
100 mm/4.00" from the end of the holder.

Achieve High Speed and Greater Accuracy with Kuroda ACE LOCK Milling Chucks from Techleader Tooling

To take advantage of the productivity gains offered by the latest CNC machining centers, your tool holding must be capable of handling faster cutter speeds and higher feed rates. Kuroda ACE LOCK Milling Chucks from Techleader Tooling are designed to give you the best of both worlds - speed and accuracy!

Milling Chucks

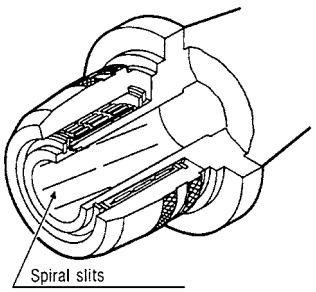
Greater Concentricity and Tighter Tolerances

CTR Series ACE LOCK Milling Chucks feature a simple yet unique design and quality construction to offer distinct performance advantages. The outside of the internal bore of the tool is precision-ground to a tapered surface. As the guided retaining cage turns, the roller bearing assembly tracks up this surface, forcing the bore down onto the tool shank. This provides uniform clamping pressure around the entire tool shank, keeping the centerline of the tool in exact alignment with the machine spindle.

Achieve Faster, Deeper Cuts without Tool Slippage

Strong stable clamping allows for faster, deeper cuts with minimal risk of tool pullout. This is achieved with minimal tightening torque.

Model	Clamping Torque
CTR - 3/4"	950N m (95kgf/m)
CTR - 1"	1500N m (155kgf/m)
CTR - 1- 1/4"	2900N m (295kgf/m)
CTR - 1- 1/2"	4900N m (500kgf/m)



Spiral slits are precision-machined with a laser securely hold the cutter throughout the chucked length. Since these spiral slits can repel oil, the holding power is not affected and a minimum amount of oil, if any, will get on the cutter.

Guaranteed Accuracy and Stronger Gripping Power

Machining accuracy for both heavy-duty and finish cutting is assured by means of the rigid nose design. When the tool is fitted and tightened, the ground surface on the back end of the locking collar comes into firm contact with the body of the milling chuck. The two pieces come together as a single, high-rigidity set-up to resist bending and torsion.

Variety of Rotating Speeds

CTR Series ACE LOCK Milling Chucks are available in four models to meet various rotating-speed requirements. (Note: achieving maximum rotation speed depends on the concentricity and symmetry of the tool.

Model	Maximum RPM
CTR - 3/4"	15,000
CTR - 1"	11,000
CTR - 1- 1/4"	7,000
CTR - 1- 1/2"	5,000

The retainer, cast in special precision mold, holds numerous rollers in a tight arrangement to reduce the face-pressure on the roller surface. This ensures both remarkable durability and outstanding chuck performance.

Less Waste Means More Productivity

CTR Series ACE LOCK Milling Chucks hold closer tolerances, resulting in better surface finishes and the reduction or elimination of other finishing operations, thus saving costs. Reliable cutting accuracy assures part consistency while reducing defects, reworks and returns. Milling chucks are also highly versatile, as they can hold a greater variety of tools.

Longer Tool life

The roller retainer cage is cast in a special precision mold and holds the optimum number of rollers in tight alignment for stronger, equal gripping power all the way around the tool. The cutting force is distributed equally, preventing uneven wear on cutting edges.

Hardened by heat-treating to resist wear, the steel alloy body provides increased resistance to rolling fatigue, thus maintaining high accuracy and clamping power over time and repeated use.

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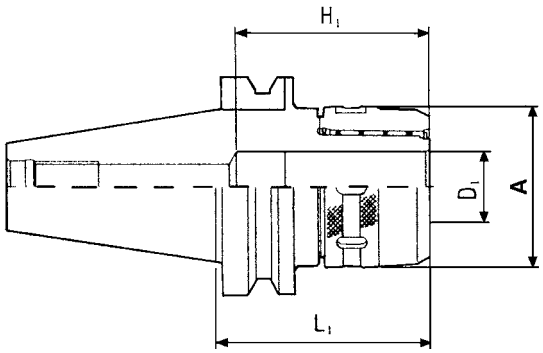


BT & CT Flange Tools

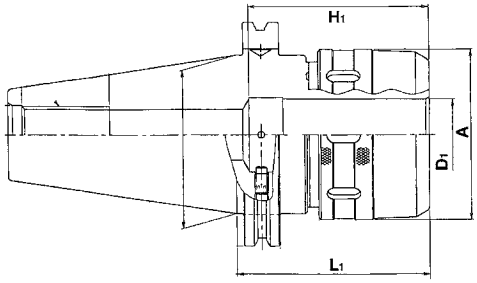
NOTE: Purchase collets separately. See page 1-3

Spanners not supplied with milling chucks. Purchase separately. See page 1-18

BT

Taper	Order No.	Device Type	D_1 (in)	L_1 (in)	A (in)	H_1 (in)
30	465-405*	BT30 – CTR 3/4" – 80	0.750	3.14	2.05	2.95
40	465-095*	BT40 – CTR 3/4" – 80	0.750	3.15	2.05	2.95
40	465-105*	BT40 – CTR 1-1/4" – 105	1.250	4.13	2.95	3.75

* While stock lasts.



CT

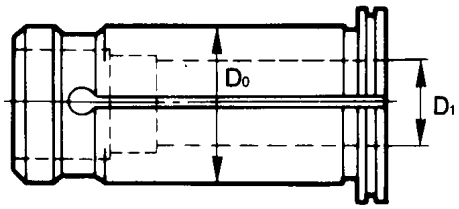
	Taper	Order No.	Device Type	D_1 (in)	L_1 (in)	A (in)	H_1 (in)
NEW	40	466-095	CT40 – WHPMC 3/4" – 3.54	0.750	3.54	2.05	
	40	466-096**	CT40 – SS 3/4" – 5.00	0.750	5.00	1.97	2.36
NEW	40	466-100	CT40 – WHPMC 1" – 3.54	1.000	3.54	2.28	
NEW	40	466-105	CT40 – WHPMC 1-1/4" – 4.13	1.250	4.13	2.60	
	40	466-106**	CT40 – SS 1-1/4" – 5.00	1.250	5.00	2.68	3.15
NEW	50	466-295	CT50 – WHPMC 3/4" – 3.54	0.750	3.54	2.05	
NEW	50	466-300	CT50 – WHPMC 1" – 3.54	1.250	3.54	2.28	
NEW	50	466-305	CT50 – WHPMC 1-1/4" – 4.13	1.250	4.13	2.60	

* While stock lasts. This product line being discontinued please look at our clearance list
** While stock lasts Richmill Brand.

ACE LOCK Milling Chuck Collets

Straight Collets

For Milling Chuck



Order No.	Device Type	D_0 (in)	D_1 (in)
467-005	3/4 C – S 3/16	0.750	0.1875
467-010	3/4 C – S 1/4	0.750	0.250
467-015	3/4 C – S 5/16	0.750	0.3125
467-020	3/4 C – S 3/8	0.750	0.375
467-030	3/4 C – S 1/2	0.750	0.500
467-040	3/4 C – S 5/8	0.750	0.625
467-105	1 C – S 3/16	1.000	0.1875
467-110	1 C – S 1/4	1.000	0.250
467-115	1 C – S 5/16	1.000	0.3125
467-120	1 C – S 3/8	1.000	0.375
467-130	1 C – S 1/2	1.000	0.500
467-140	1 C – S 5/8	1.000	0.625
467-150	1 C – S 3/4	1.000	0.750
467-160	1 C – S 7/8	1.000	0.875
467-205	1-1/4 C – S 3/16	1.250	0.1875
467-210	1-1/4 C – S 1/4	1.250	0.250
467-215	1-1/4 C – S 5/16	1.250	0.3125
467-220	1-1/4 C – S 3/8	1.250	0.375
467-230	1-1/4 C– S 1/2	1.250	0.500
467-240	1-1/4 C – S 5/8	1.250	0.625
467-250	1-1/4 C – S 3/4	1.250	0.750
467-270	1-1/4 C – S 1	1.250	1.000
467-310*	1-1/2 C – S 1/4	1.500	0.250
467-315*	1-1/2 C – S 5/16	1.500	0.3125
467-320*	1-1/2 C – S 3/8	1.500	0.375
467-330*	1-1/2 C – S 1/2	1.500	0.500
467-340*	1-1/2 C – S 5/8	1.500	0.625
467-350*	1-1/2 C – S 3/4	1.500	0.750
467-360*	1-1/2 C – S 7/8	1.500	0.875
467-370*	1-1/2 C – S 1	1.500	1.000
467-380*	1-1/2 C – S 1-1/4	1.500	1.250
467-470*	2 C – S 1	2.000	1.000
467-480*	2 C – S 1-1/4	2.000	1.250
467-490*	2 C – S 1-1/2	2.000	1.500

* While stock lasts Richmill Brand