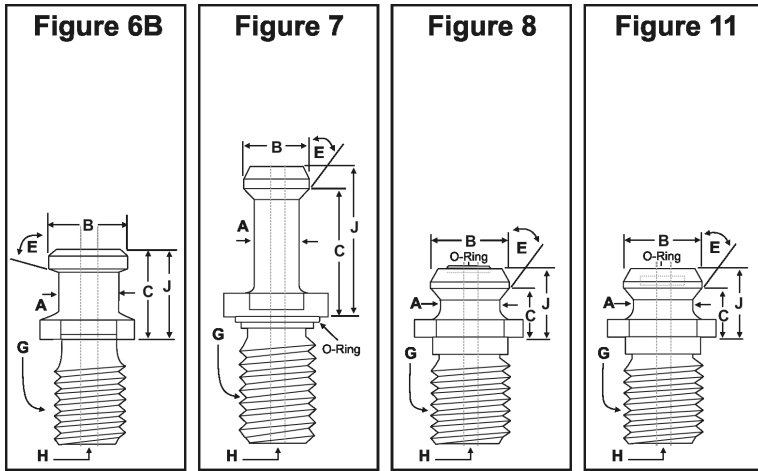


# CAT STYLE RETENTION KNOBS / PULL STUDS



## Best Practices for Retention Knob Usage:

- Store unused knobs carefully so the knobs do not get dented, scratched or nicked in storage.
- Use the correct knob for the tool machine and the toolholder.
- Log the installation date.
- Properly tighten the knobs at all times per the machine manufacturer recommendations. Use a torque wrench. Over-tightening or under-tightening are both detrimental.
- Do not use glue or binding compound on the knobs.
- Inspect and clean knobs regularly.
- Unusual wear on the knobs may indicate other problems with gripper or the feed fingers. You should only see a uniform set of slight indentations from your grip fingers.
- Change O-ring on a regular basis.
- Replace the retention knobs regularly every two years, depending on the operation.
- Replace knobs more often for tools used in roughing.

## RETENTION KNOBS FOR CAT 50 AND CAT 60 TOOL HOLDERS

Note	Fig.	Head Dia. B	Neck Dia. A	Angle E °	Length C	Length to Head J	Flange Thick	USST [G]		LYNDEX [C]		PARLEC [C]		Max Torque ft/lbs	Knob Socket 1/2" drive [D]
								Part Number	Price Each	Part Number	Price Each	Part Number	Price Each		

### CAT 50 SHANK HOLDERS (1" - 8 Thread)- ISO Std. Type A Style

ISO Std. A Inch-No Pilot	6B	1.100 (28mm)	0.826 (21mm)	75	0.992 (25.2mm)	1.350 (34.3mm)	0.280 (7.1mm)	C50-7540H	\$36.75	LY-C50-1500	\$35.15	-	-	110	-
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### CAT 50 SHANK HOLDERS (1" - 8 Thread)- DIN 69872 Form A Style

DIN Std. A Inch-Pilot	1	1.100 (28mm)	0.826 (21mm)	75	0.977 (24.8mm)	1.338 (34mm)	-	C50-7550H	\$43.05	-	-	P-5030TRK	\$40.00	110	RK-W50-A \$59.00
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### CAT 50 SHANK HOLDERS (1" - 8 Thread)- MITSUI Style

MITSUI. No Pilot	1	0.940 (23.9mm)	0.706 (17.9mm)	90	0.903 (22.9mm)	1.218 (30.9mm)	#N/A	-	-	-	-	P-MS5034 TRK	\$23.80	110	-
MITSUI No Pilot	2A	0.940 (23.9mm)	0.708 (18mm)	90	0.905 (23mm)	1.220 (31mm)	0.200 (5.1mm)	-	-	LY-C50- MITSUI	\$29.45	P-5021TRK	\$35.00	110	-

## DRAWBAR CLAMPING FORCE GAGE

CNC Machines using pull-studs for tool retention experience a slow but progressive loss of tool holding pressure from the time the machine is new. This little known fact has a major impact on surface finishes, cutting tool life, and on your productivity. Testing a drawbar requires a force gage which simulates a tool being held in the spindle. The **Clamprite Gage** uses a common tool holder as the interface between the gage and machine spindle, eliminating the need for a high-priced precision adapter for each different spindle size (only HSK-type spindles require an adapter).

**Prevent Unscheduled Maintenance!**  
**Increase Cutter Life!**  
**Protect Your Spindles!**

### Low drawbar force can result in:

- Reduced cutter life
- Chatter and rough finishes
- Difficulty with repeatability
- Lower feeds and productivity
- Rapid wear of toolholder and spindle tapers



The **Clamprite Gage** was designed for accurate spindle tension testing right on the machine. The actual pressure exerted by the spindle drawbar mechanism is read directly on the dial, so there is never a need for any calculations or conversions. Drawbar force checking is made easy using the Clamprite drawbar force gage. Drawbar testing takes less than one minute, so production time is barely affected. Its simple and rugged design requires no batteries, electrical cords or delicate electronic components to pre-set, calibrate or burn out.

### FEATURES:

- Test drawbar force in less than one minute
- Reads directly in lbs of force- no calculating
- Rugged, reliable and works on all machines
- Helps to prevent unscheduled maintenance
- HSK models also available
- Made in USA



**Accuracy Traceable to NIST-  
Suitable for ISO 9000 Shops!**

## CLAMPRITE



### Clamprite Kit Includes:

- Gage head
- Spindle adapter
- Internal transfer screw coupling
- Foam fitted metal tool box

PSI lbs	Taper Adapter Included	Part Number	Kit Price
3,000 Lb.	BT 30 taper	CR-CG3K30B	\$779.00
	BT 40 taper	CR-CG3K40B	\$789.00
	CAT 40 taper	CR-CG3K40C	\$789.00
5,000 Lb.	BT 40 taper	CR-CG5K40B	\$789.00
	CAT 40 taper	CR-CG5K40C	\$789.00
	BT 50 taper	CR-CG5K50B	\$807.00
	CAT 50 taper	CR-CG5K50C	\$807.00
	CAT or BT 40 & 50	CR-CG5K40/50	\$940.00
10,000 Lb.	BT 50 taper	CR-CG10K50B*	\$841.00
	CAT 50 taper	CR-CG10K50C*	\$841.00

\*10,000 lb gages only required for EXTRA HEAVY DUTY machines and some HSK's.

**Call Us Today For All Of Your Machine Tool Needs!**