

The first thing to wear out on a CNC Machining Center is often the drawbar!

Belleville springs provide the only force that holds tools in the spindle while cutting, and they are often the first to wear out on a CNC Machining Center.

Drawbars can have over 140 Belleville springs in the stack. Just the slightest wear on each spring will have a big affect on clamping force, causing chatter, bad finishes, reduced cutter life, and scrapped parts.



A typical drawbar assembly.

Left unchecked, a tool may eventually pull out during a cut, damaging the spindle, cutter, arbor, and fixture. Machines are never the same after a crash.

Problems with repeatability, bad finishes, and short cutter life can be frustrating and difficult to diagnose. Up in the spindle and out of sight, drawbars seldom get the attention they deserve. To check it requires a special tool designed just for that purpose. Previously these tools cost many thousands of dollars, but now you can check your spindle for a fraction of that cost.

The Clamprite Gage simulates a tool in the spindle, and checks the drawbar in less than a minute. It has no batteries, clumsy cables, or delicate electronics. The pressure gauge reads directly in pounds/force, so there are no conversions or calculations.

Hundreds of shops in the U.S. and around the world use the Clamprite Gage. Customers often say it paid for itself the first time they used it.

Find out if your drawbars Clamprite. Call today!



HSK Spindle Adapters

CHSK E25	Size E-25 Adapter	\$ 349.00
CHSK E32	Size E-32 Adapter	\$ 369.00
CHSK A40	Size A-40 Adapter	\$ 389.00
CHSK A50	Size A-50 Adapter	\$ 419.00
CHSK A63	Size A-63 Adapter	\$ 439.00
CHSK A80	Size A-80 Adapter	\$ 629.00
CHSK A100	Size A-100 Adapter	\$ 795.00
CHSK A125	Size A-125 Adapter	\$ 939.00

CG5K Gage Head for	HSK-E25 to A63 Adapter	\$ 629.95
CG10K Gage Head for	HSK-A80 to A100 Adapter	\$ 659.95
CG15K Gage Head for	HSK-A125 Adapter	\$ 879.95

HSK must maintain high drawbar force to fully seat the arbor.



409 Market Ave. P.O. Box 320 Story City, IA 50248

CLAMPRITE® Spindle Drawbar Force Gage

- Protect Your Spindles
- Avoid Unscheduled Downtime
- Increase Cutter Life
- Accuracy Traceable to NIST



Uses any pull stud without alterations!

Clamprite Gage Kits provide an easy, accurate, and economical method of checking the drawbar force of your machine. Kits are furnished in a foam fitted metal tool box, and includes the gage head, a spindle adapter, and an internal transfer screw coupling that accepts all pull studs. Use your pull stud, or purchase pull studs separately from Clamprite or your local distributor.

The universal gage head adapts to every size and type of spindle, including CAT, BT, ISO, HSK, and others. Select your kit by spindle type and max. drawbar force you will be testing. Order additional adapters below.

(Call 1-866-THE GAGE for technical assistance)

Clamprite Gage Kits

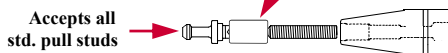
CG3K 30B	3,000 Lb.	includes BT 30 taper adapter	\$ 759.00
CG3K 40B	3,000 Lb.	includes BT 40 taper adapter	\$ 769.00
CG3K 40C	3,000 Lb.	includes CAT 40 taper adapter	\$ 769.00
CG5K 40B	5,000 Lb.	includes BT 40 taper adapter	\$ 769.00
CG5K 40C	5,000 Lb.	includes CAT 40 taper adapter	\$ 769.00
CG5K 50B	5,000 Lb.	includes BT 50 taper adapter	\$ 789.00
CG5K 50C	5,000 Lb.	includes CAT 50 taper adapter	\$ 789.00
CG5K 40/50	5,000 Lb.	incl CAT or BT 40 & 50 adptrs	\$ 919.00
*CG10K 40/50	10,000 Lb.	incl CAT or BT 40 & 50 adptrs	\$ 969.00
*CG10K 50C	10,000 Lb.	includes CAT 50 taper adapter	\$ 839.00

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

Clamprite Spindle Adapters †

CA 30B	BT 30 Spindle Adapter	\$ 129.00
CA 40B	BT 40 Spindle Adapter	\$ 139.00
CA 40C	CAT 40 Spindle Adapter	\$ 139.00
CA 50B	BT 50 Spindle Adapter	\$ 159.00
CA 50C	CAT 50 Spindle Adapter	\$ 159.00

† Adapters include a Transfer Screw Coupling.



Transfer screw coupling accepts all standard pull studs. Use your pull stud, or order studs separately. Call for different spindle types or other special applications.



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