

Calculating Set-up Savings for Bearing Manufacturers

	Vendor X	Control Gaging
A=Gage set-up Time (minutes)	30 minutes	5 Minutes
B=Set-ups per month	12	12
C=Set-up Time per month	6 hours	1 hour
D=Line downtime cost per hour	\$1500	\$1500
E=Set-up cost per month	\$9000	\$1500
Sample savings per month \$7500 (\$9000-\$1500)		

The values to the left represent a typical cost comparison between the set-up time required for a Control Gaging product and the set-up time required for one of our competitors products. Use the equation below to calculate your downtime costs attributable to gage set-up time.

$$((A \times B) / 60) \times D = \text{Set-up cost Per month}$$



Bearing Application Chart

	WIDTH OR FACE GRINDING			OD GRINDING			ID GRINDING							
	BEARING OUTER RACE	BEARING INNER RACE	TAPER BEARING CONE	TAPER BEARING CUP	BEARING OUTER RACE	BEARING INNER RACE	TAPER BEARING CUP	OUTER RACE BALL TRACK	OUTER RACE	INNER RACE	TAPER BEARING CONE	TAPER BEARING CUP	SPHERICAL BEARING OUTER	NEEDLE BEARING OUTER
DOUBLE DISC THRU-FEED DRIVE UNIT (DD5)	○	○	○	○										
SINGLE FINGER GAGE FOR WHEEL COMPENSATION	○	○	○	○										
DOUBLE DISC ROTARY CARRIER GAGE (PUCK MASTER)	○	○	○	○										
THRU-FEED DOUBLE DISC NON DRIVEN UNIT (FLATMASTER)	○	○												
CENTERLESS THRU-FEED DIAMETER GAGE (RING GAGE)					○									
IN PROCESS JUMP ON GAGE					○	○	○	○	○	○	○	○	○	○
DUAL GAGE HEADS WITH POST (FOR LARGE DIAMETER SYSTEMS 10" AND GREATER)					○	○	○	○	○	○	○	○	○	○
THRU SPINDLE GAGE								○	○	○	○	○	○	○
THRU SPINDLE HIGH RETRACT GAGE								○	○				○	

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5/21/02

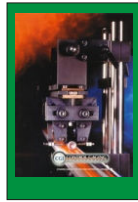
In-Process Gage Guide



Covers in-process gaging for grinders including: ID, OD, Part Positioning, Thru-spindle gaging and more. Cut your grinding costs with automatic grinder control based on real-time part measurement

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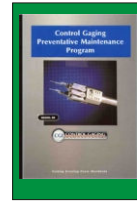
Centerless Gage Guide



Process Control Gage Systems for thrufeed centerless grinders. Improve grinder productivity and part quality through closed loop statistical compensation and control. Now includes Disc Grinder Gages

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Preventive Maintenance



Correct minor problems before they become major expenses with a preventive maintenance program from Control Gaging. Find out about Repair Training & On-site Tech Support. Custom maintenance programs available.

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Disc Grinder Gage Guide



Excellent discussion of the principles of automatic control of Disc Grinders including Vertical Spindle, Horizontal Spindle, Thrufeed Disc and more. Covers compensation methods and gaging strategies.

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"Ring Gage" Guide



Breakthrough product measures each ring individually as it leaves the centerless grinder for optimal process control and part quality. Measure and control workpiece diameter "on-the-fly."

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Statistical Controller Guide



The PD-6n based closed loop size control system uses statistical analysis so that your grinder automatically produces parts to the best of its capability. Find out how!

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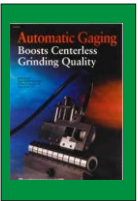
3 Year Warranty!



As a result of the improvements in our Quality System, Control Gaging now offers the best warranty in the industry; a 3 YEAR WARRANTY on all of our GAGE HEADS, MONITORS (amplifiers)

Send Info

Automatic Gaging Article



Manufacturing Engineering article covering control techniques to optimize your centerless grinders' quality and productivity. Includes testimonials and case studies.

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Give Me a Call!



I'd like to hear more about ways to reduce downtime and improve the productivity of my grinding operation!

Phone
Call Me

Looking forward to hearing from You!

Affix Business Card Here

Name: _____
 Company: _____
 Address: _____
 City-State-Zip: _____
 Phone - Fax: _____
 E-Mail: _____
 FAX TO 734-994-1335 Attn: Stacey Stites