



**COGSDILL TOOL**

*products, inc.*

# APPLICATION *news*

DATE April 11, 2005

NUMBER CAN1-05

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## Superior Seal Surfaces, Improved Appearance, and Faster Production

**Our rugged CX<sup>®</sup> Machine “keeps on ticking” for more than 31 years in this valve manufacturer’s plant!**

ONE COGSDILL CUSTOMER ACHIEVES GREAT RESULTS in processing control valves for the petrochemical industry, using a CX<sup>®</sup> External Roller Burnishing Machine that just won’t quit... even after more than 31 years of use.

Since May of 1973 the company has roller burnished valve stems with a Cogsdill CX-1 machine for super smooth seal surfaces (which prevents leakage) and for improved cosmetic appearance (a competitive advantage), while enjoying time and cost savings with faster production.

The owner and former president commented that the company has received many favorable customer comments over the years in regard to the superior finishes on their valves. The head of purchasing estimates that the company saves 20 minutes of machine time per part by burnishing instead of polishing. Use of the CX machine also eliminates safety concerns relative to the previous manual polishing operations.

The CX-1 was returned to our factory last year for a “tune-up,” after more than three decades of use. A new switch, air line, and palm button (for part release) were installed, for a **total repair cost of only \$97.00**. Upon receiving the repaired unit, the customer reported that the machine is “working better than a champ!”



— Refer to reverse side for machining data —

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## **Machining data**

**Machine type:** CX-1-B (interference feed)

**Material types:** 316 stainless steel  
Inconel (600-700-800 series)  
Hasteloy (C & B)  
17-4 steel  
Monel  
Alloy 20

**Speed:** 1000 RPM

**Feed rate:** .050 IPR

**Cycle time:** 3 seconds per part

**Coolant:** Cutting oil

**Size required:**  $\pm .001$  in. (.025mm)

**Size achieved:**  $\pm .0002$  in. (.005mm)

**Finish required:** 8 microinch Ra

**Finish achieved:** 3 microinch Ra

*The CX<sup>®</sup> External Roller Burnishing Machine sizes, finishes, and work-hardens cylindrical diameters of any length in seconds. Fatigue life, corrosion resistance, and cosmetic appearance are enhanced as parts are accurately sized and finished in one fast pass.*

*Model options range from compact models designed for portability to rugged high production models. Equipment options are available to accommodate through-feed applications, parts with obstructions, and part-to-part size variations.*

*Contact your Cogsdill regional manager for more information.*

