

# UNISON CORPORATION

## DedTru Centerless Grinding System



### **Model 288**

Featuring Unison's Model C DedTru Grinding Fixture

# DedTru Centerless Grinding Systems

## ***Unison DedTru® Centerless Grinding***

New Unison DedTru® Centerless Grinding Units which are mounted on 6" x 18" surface grinder which creates an extremely accurate and versatile grinding system for tool room and job shop applications. With more than 10,000 units worldwide, the DedTru has proven its reliability and provides a cost effective solution for both single piece and large volume centerless grinding operations.

## ***Maximum Versatility***

Designed for applications with conventional Diamond and CBN grinding wheels, the DedTru grinding system provides:

- ▶ Thrufeed grinding of cylindrical parts
- ▶ Infeed grinding for headed, splined, geared and formed parts
- ▶ Secondary operations for steps, forms and tapers requiring precise concentricity, size and roundness
- ▶ Tapers and chamfers

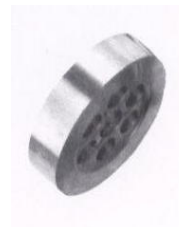
Parts ranging in diameter 1/32-inch (0.8mm) to 5-inches (125mm) can be handled. With a hole in the column, outboard supports and a variety of options, extended lengths over 12-inches can be accommodated.

## ***Additional Features***

- ▶ Fast, easy setups
- ▶ Internal grinding
- ▶ Concentric step grinding

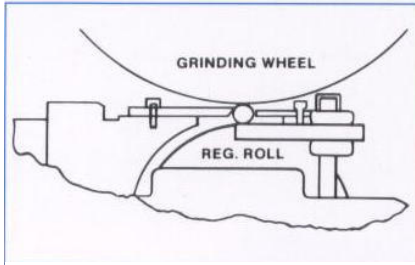
## ***Designed For Customer Satisfaction***

New Unison's commitment to customer satisfaction is evident in both the design and manufacture of our DedTru Centerless Grinding System. We engineer our machines for reliability. All of our DedTru units are backed by New Unison's one-year limited warranty. Factory training is provided upon request.



The New Unison DedTru Centerless Grinding Systems provides exceptional accuracy and roundness. Rigid part support insures consistent concentricity up to .000050 inch (.0012mm). Round and cylindrical parts from 0.005 inch (.127mm) to 5 inch (127mm) can be ground by thrufeed operation including steps, forms, tapers, chamfers and other OD/ID secondary operations.

### ThruFeed

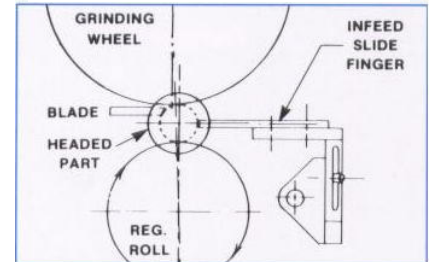


The fastest and most accurate method for producing parts for roundness, size and straightness.

### Model 188 DedTru Grinding System 6" x 12" base.

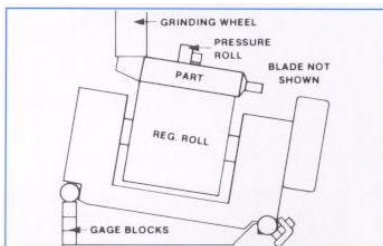


### Infeed



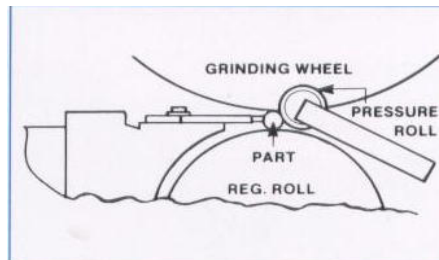
The fastest and most accurate method for producing headed, splined geared formed parts for roundness, size and straightness

### OD TAPER



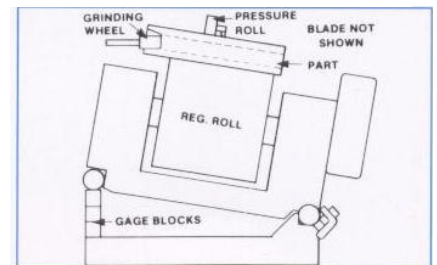
Grind tapers and chamfers with automatic concentricity.

### SECONDARY OPERATIONS



The fastest and most accurate method for steps, forms, tapers and other secondary operation work for concentricity, size and roundness

### ID TAPER



Precise ID grinding operations are easily accomplished with a variable speed spindle drive

## TECHNICAL SPECIFICATIONS

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### Work Capacity

- ▶ Vertical Work  
Height.....7" (175mm) standard
- ▶ Crossfeed Longitudinal  
Travel....6" x 18" (152mm x 455mm)

### Spindle Drive

- ▶ AC Motor .....1.5 HP, 3600 RPM

### Grinding Applications

- ▶ Roundness to .....0.000050" (0.0013mm)
- ▶ Concentricity to .....0.000050" (0.0013mm)
- ▶ Diametrical Repeatability to.....0.0001"

### Wheel Capacity

- ▶ Maximum Diameter.....8" (200mm)
- ▶ Maximum Width.....3" (75mm)
- ▶ Special Applications.....4" (100mm)

### Shipping Weight

- ▶ 1200 lbs. (550kg)

### Floor Space Requirements

- ▶ 84" h x 96" w x 80" d (2130 x 2430 x 2030mm)

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## OPTIONS

- ▶ A riser can increase the spindle height for larger diameter parts (standard on the C6 system)
- ▶ Heavy-duty 2 hp, 1800 RPM spindle to accommodate 14" wheels (requires increased height options)
- ▶ Heavy-Duty 3 HP, 3600 RPM Spindle available
- ▶ Oscillating crossfeed mechanism for better finish and better wheel wear control
- ▶ Automatic feed cycles—longitudinal and vertical including a feature for start/stop control of the regulating roll and coolant
- ▶ Digital readout system—vertical and cross motion
- ▶ TilTru magnetic chuck for conventional and angular precision surface grinding
- ▶ Large grinding wheel selection for various application
- ▶ ID precision grinding spindles tailored to meet your needs
- ▶ Dressing equipment
  - Straight line
  - Powered diamond roll
  - Radius tangent and template tracing
- ▶ Customized high performance systems tailored to meet your needs
- ▶ Standard/Metric fine-downfeed attachment



### **Unison Corporation = "Grinding Solutions"**

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**DEDTRU GRINDING SYSTEMS**

**IT'S THE ONLY WAY TO GO!**