



## Universal Wheel Dresser



VERTEX®

ORDER NO.V-TDC CODE NO.2012-020

WEIGHT:7.8kgs



The wheel dresser that dresses two angles tangent to a radius in one continuous motion with .0001~0.0002mm accuracy. The wheel dresser with a micrometer feed-0.98"(25mm) travel.

### SIMPLE-ELIMINATES HEIGLY SKILLED OPERATORS

Fluidmotion means YOU CAN dress two angles tangent to a radius in one continuous motion-with only one setting. The diamond automatically returns to center position after dressing angles. Thus even a beginner can dress complex forms quickly and accurately. (center height 195mm)

### ELIMINATES ELABORATE SETUPS

No need to pre-set diamond, or use any other tool except a micrometer and a simple hex wrench.

No Gage block-Master Gage setting or Block-Parallel Bar-Surface Plate-Height Gage-Dial Indicator.

No movement of dovetails necessary to form angles. The angle is dressed by continuing to push handle in both directions after radius is formed.

No need to use Gibs & V-Ways other than positioning surfaces.

### ACCURATE-RAPID, REPEAT FORM-DRESSING

Fluidmotion generates clean, precise wheel profiles entirely free of chatter marks. Without fluidmotion a perfect blend of angles and radius is improbable.

**PRECISE SHARP CONTOURS**-concave or convex, at a full 180 degrees, are obtained consistently with (GUARANTEED) 0.001" accuracy.

**CONVEX RANGE-0R-76.2R**

**CONCAVE RANGE-0.8R-88.9R**

**ACCURATE...FLUIDMOTION...PRECISE...**

**HOLD INTERSECTING ANGLES** 12 to 15 seconds. This is accomplished by operating upright and handle.

Setting up two angles requires 10 seconds. Setting two angles and radius requires less than 3 minutes.

### THE MOST DURABLE DRESSER AVAILABLE

Manufactured from hardened, ground and lapped alloy steels.

No wearing surfaces. Swivels on sealed bearings.

This form tangent in one setting-two angles-two radius-one flat.

MAX. Swing distance of diamond cutter.....±14mm

Measuring quasi-pin dia.....ø10

MAX. Wheel dia.....ø200mm

Reading accuracy of turret index......5'

Feed per division of handle scale.....0.01mm

### Calculation Method

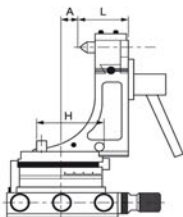
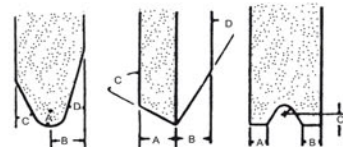
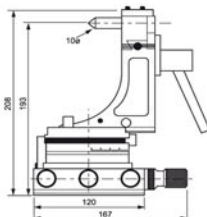
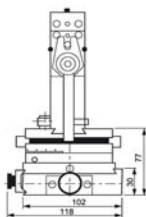
To dress convex arc surface:  $H=L+R$

To dress concave arc surface:  $H=L+(-R)$

H: Distance between outer generating lines of two locating pins.

R: Radius of the arc surface to be dressed

L: Distance from tip of diamond cutter to base plate



WHEEL DRESSER