

ACCUDRESS PRO

Wheel truing and profiling machine with Camera system



MACHINE BASE

Concrete base for the machine provides a solid, stable and durable foundation, minimizing the vibrations. This also offers immunity against temperature fluctuations. Finally this results in efficient, smooth dressing free of vibrations and other fluctuations.

OPTICAL SPECIFICATION

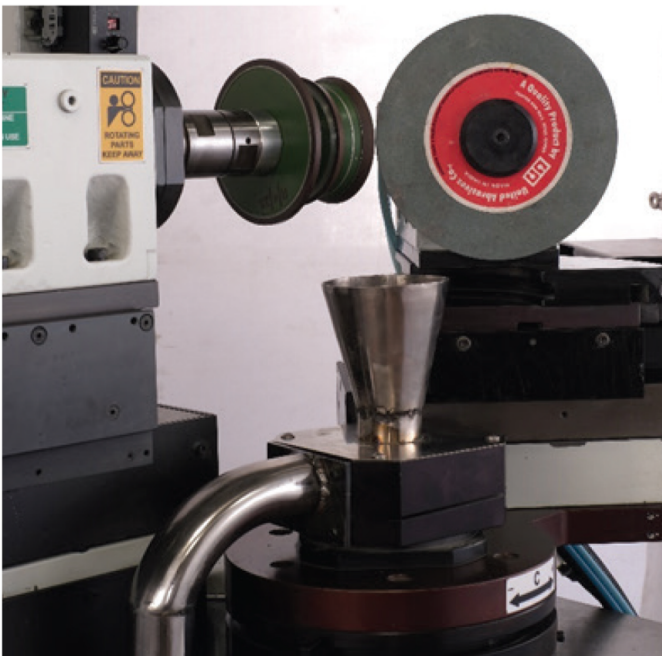
The camera system equipped with the telecentric optics capable of providing magnification ranging from x5 to x100 for optimal imaging and precise measurements

TELECENTRIC ZOOM SYSTEM

Telecentric zoom lenses are used in very precision camera metrology systems. This basically avoids the parallax errors of the conventional lens systems resulting in distortion free images, facilitating precise measurements. This also avoid the peripheral fringes in the image which otherwise leads to the errors.

With the standard ratchet 12X zoom systems having 14 ratchet steps, the images are can be calibrated in the Metric measuring software for measurements in each zoom step.

The working distance (lens end to object) of Approx. 180 mm does not have to be changed. The zoom range covers a field of view from 4 mm to 50 mm when combined with a 1/2 " camera chip.



MEASURING SOFTWARE

Measuring software has the following features:

- Different overlays including the DXF overlay is possible for dressing guidance.
- Measurement of the various standard geometric shapes are possible.
- Updates for software are generally free of charge. This ensures that users can always keep their systems up to date
- Minimum measuring is possible to the lowest value of 0.05 mm radius

WHEEL HEAD

- Wheel head spindle is compact and rigid to avoid any vibrations while dressing
- The RPM (revolution per minute) is programmable with an input
- Spindle is HSK 50/BT 40 female taper
- Drive is AC induction motor driven by Invertor

DRESSING SPINDLE HEAD

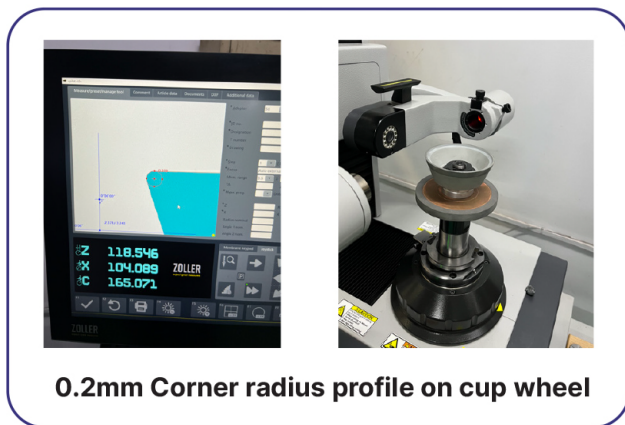
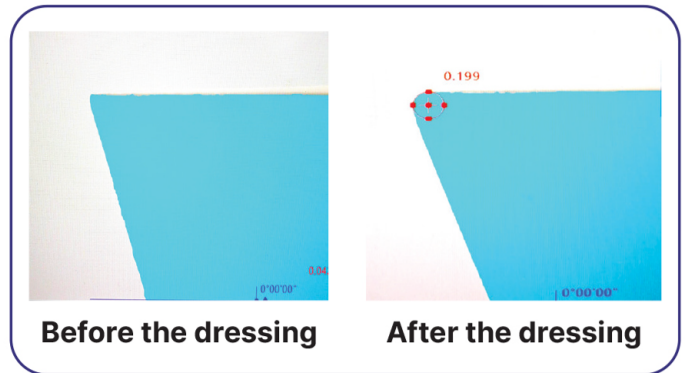
- The dresser spindle head is designed to oscillate with programmable input
- The oscillation stroke and velocity is controlled by servo motor
- This makes stroke setting by just a input value on the console
- Drive is AC induction motor driven by Invertor

DRESSER HEAD SWIVELLING ROTARY TABLE

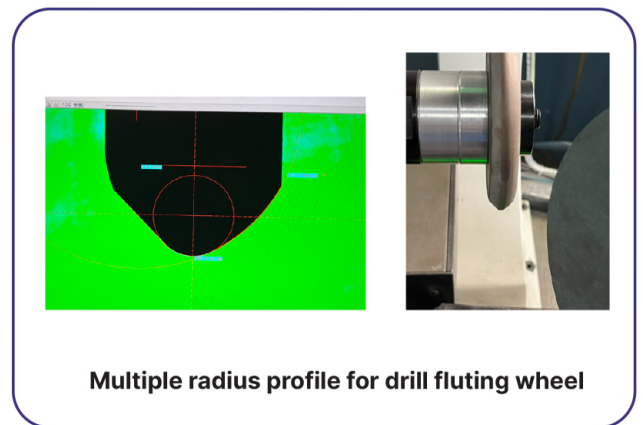
- Rotary table is designed to take heavy impact loads
- This Swiveling table is equipped with digital read out
- Digital read our display ensure high precision while setting the required angles

OBJECTIVE OF WHEEL PROFILING

- Wheel corner radius gives definable geometry to the grinding wheel.
- As you define the value of corner radius of wheels, the software is able to create a perfect program.
- Perfect program gives a precise CNC code (program). This precise CNC code produces a high accuracy cutting tool like end mill, drill & profile tools, when run on a CNC tool grinder.

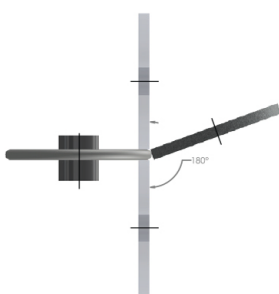
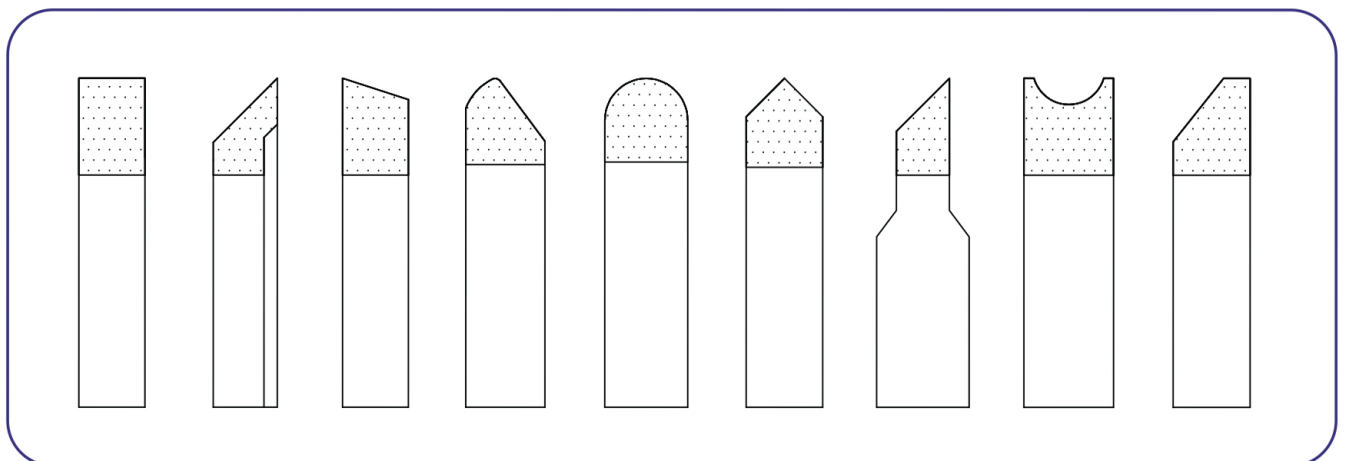


0.2mm Corner radius profile on cup wheel

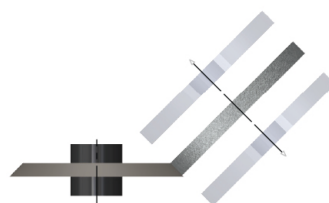


Multiple radius profile for drill fluting wheel

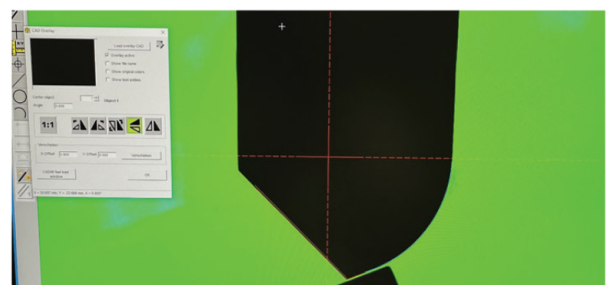
APPLICATION EXAMPLES



Radius Wheel Dressing



Angle Wheel Dressing



TECHNICAL DATA

DIAMOND WHEEL SPINDLE

Wheel spindle Taper	BT40
Diamond wheel max/min \varnothing and width	\varnothing 250- \varnothing 75mm-26mm
Diamond wheel bore size	As per wheel adapter
Wheel spindle speed and power	3000RPM, 0.78KW
Wheel cross traverse	135mm
Wheel longitudinal traverse	135mm
Radius wheel dressing min and max	0.1mm-20mm

DRESSING WHEEL SPINDLE

Dressing Wheel min and max diameter	\varnothing 175- \varnothing 250mm								
Dressing Wheel spindle taper	TAPER SPINDLE								
Speed and Power	3000RPM, 0.78KW								
Dressing wheel angular rotation (Linear moment)	<table border="1"><tr><td>45°</td><td>90°</td><td>135°</td><td>180°</td></tr><tr><td>1.6mm*</td><td>16mm*</td><td>24mm*</td><td>30mm*</td></tr></table>	45°	90°	135°	180°	1.6mm*	16mm*	24mm*	30mm*
45°	90°	135°	180°						
1.6mm*	16mm*	24mm*	30mm*						
* Not movement, excluding the 12.7 mm wheel thickness									
Dressing wheel oscillating feed	PROGRAMMABLE								
Dressing wheel cross traverse	135mm								
Rotary table rotation	185°								

CAMERA MONITOR SYSTEM

Monitor	DELL
Camera zoom	Magnification from x5 to x100
Import file type	DXF
Camera make	Hikrobot
Optics make	Navitar
Camera software	Metric

DUST COLLECTOR

Make	Dynavac India Private Limited
Model	DC1
Power	1HP
Air Flow	1400m ³ /hr
Dimension (L x B x H)	0.5 x 0.5 x 1.1 Meters

MACHINE SIZE

950 X 1200 X 1748 mm (L x B x H)

WEIGHT

Approx. 750KG

Note: Dust Collector is optional



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