

# TS-3040 Vision

TOOL PRESETTER with  
IMAGE PROCESSING SYSTEM



**ASHWINI ENGINEERING INDUSTRIES**



### SPINDLE



### LABEL PRINTER



### Measuring Range

X – Axis 0 – 400 / 600 / 800 mm Dia

Z – Axis 0 – 400 / 600 / 800 mm

Spindle Taper BT / ISO / HSK (Optional)

Spindle Accuracy 0.002 mm

### Main Reading Value

X – Axis 0.002 mm / Dia

Z – Axis 0.001 mm

Tool Clamp Vacuum Power Clamp (Optional)

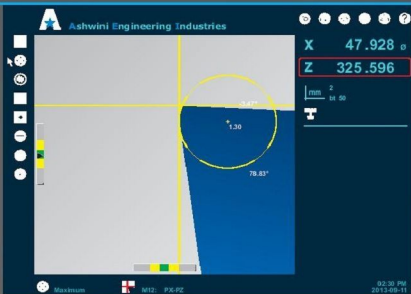
Power AC 220 V

Weight 180 - 500 Kgs Approximate

CAMERA WITH TELE CENTRIC LIGHT SOURCE  
AND INCIDENT LIGHT



DISPLAY



## TECHNICAL HIGH LIGHTS

- ▶ Linear scale with 0.001 mm resolution and incremental measuring system
- ▶ Precision linear motion guides for both axis movement
- ▶ Spindle movement on super precision angular contact spindle bearings
- ▶ Pneumatic clamping system for both axis
- ▶ Pneumatic spindle breaking system
- ▶ One hand operation of x and z axis movement
- ▶ Infinite micro adjustment
- ▶ Tool clamping: Pneumatic vacuum (standard), Power clamping (optional)

## IMAGE PROCESSING

- ▶ CMOS – Camera with Tele Centric Light Source
- ▶ 12.1" TFT Colour Monitor with Touch Screen
- ▶ Automatic measurement of tool dia, length, cutting edge radius and angles
- ▶ Fixed and dynamic cross hair
- ▶ 99 reference zero points
- ▶ 1000 Tool Library
- ▶ Front illumination of cutting edge for tool wear inspection (optional)
- ▶ RS 232 Port for DNC Tool Data Transfer
- ▶ 4 USB Ports
- ▶ Post Processor Data Transfer Directly to the machine (optional)
- ▶ Automatic illumination setting
- ▶ Automatic cutting edge shape direction

## KEY FEATURES

- TS – 3040 Vision is the latest model of tool pre-setter with Ashwini image processing system
- X & Z axis movement is on precision recirculating linear ball bearing guide ways
- Spindle runs on super precision angular contact preloaded spindle bearings
- Measurement of X and Z axis is by incremental coded digital scale with 0.001mm resolution
- Tool tip angle and radius are displayed automatically
- Pneumatic slide clamping system ensures the position of the slide
- Spindle taper is normally ISO/BT System with adaptor for ISO/BT/HSK/CAPTO
- Spindle braking system is provided to avoid the spindle movement during the adjustment of the tool
- Spindle with basic HSK system can also be provided as optional. Power clamping of tool holder can be provided as optional
- RS 232 and USB ports are provided for documentation and for data transfer
- 99 reference and 1000 tool data can be stored

## OPTIONAL

- Thermal Label Printer
- Quick adaptor for ISO/BT/HSK/CAPTO
- Front illumination for tool tip inspection
- Post Processor Software



ADAPTERS



MANDREL



PRINTER

## About Us

Ashwini Engineering is the leader in Tool Presetters in India and about 400 machines are working in leading engineering industries all over India. Ashwini Engineering Industries was established in 1983. The manufacturing range consists of Tool Presetters, Special Purpose Machines, High Precision Spindles and Precision Assemblies. Started manufacture of Tool Presetters in 1990 under Technical collaboration from M/s.Kyoritsu Seiki Corporation – Japan, who are the pioneers in Tool Presetters.



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