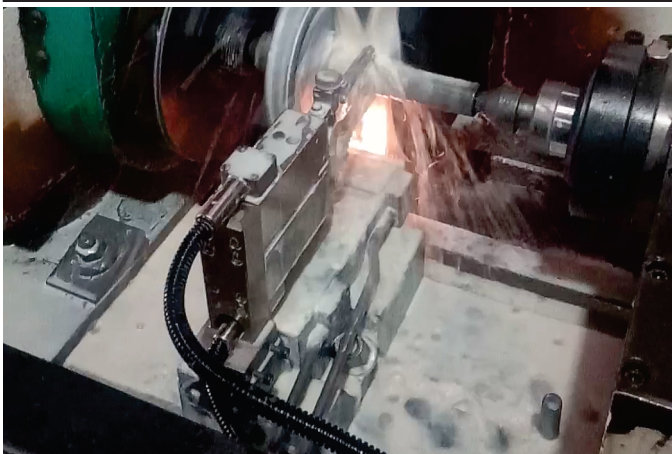


Mastering In-Process Grinding Gauges



Electronic In-process Gauging Solutions For Grinding



In-process gauging system designed for simple, cost-effective and customized applications. Solutions, include gauging of internal, external diameters.

Features

- Independent of the sizing controls of the machine.
- Can be fitted on any make of cylindrical and crankshaft grinding machine.
- High degree of repeatability and reliability.

Advantages

- Reduction in cycle time.
- Elimination of rejection.
- Improved quality and size control to near zero defect.
- Improves productivity and reliability.
- Reduces operator fatigue.
- No resetting required after every wheel redressing.

How can Tespa inprocess gauges cut the grinding costs?

For over 2 decades Tespa Grinding Gauge has built its Reputation in India for supplying cost effective reliable Gauging Solution to the grinding Industry. At Tespa we know our product and our excellent field service make all the difference to our customers. We are aware with experience that automatic control of your Grinding process through real time part measurement can cut through your cost with improved productivity & Quality.

Our dedicated engineering professionals, and our application engineers to make certain your purchase will precisely meet your specific gauging requirement at the lowest possible overall cost. Tespa provide honest straight forward technical advice and field service. Our gauges have set the standard for the industry.

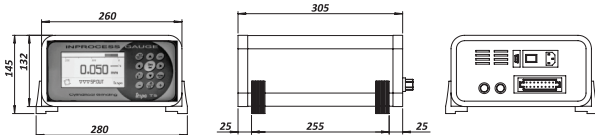
Tespa gauges are robust, dependable and reliable that are quick and easy to setup and keep running for years without trouble.

So cut your grinding costs with Tespa Inprocess gauges. Tespa now have products suitable for use in most real time grinding measurement application like cylindrical, centreless, interrupted, match grinding, crankshaft grinding etc.

MODEL : T5

LCD CONTROLLER

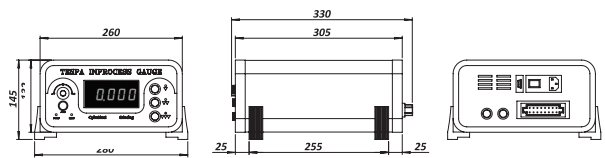
Operating Voltage	: 1Ø AC 110 V - 240 V
Frequency	: 50 Hz + 5%
Power Consumption	: 30 W Approx.
Ambient temperature	: 0° C to 55° C
Humidity	: Below 35% - 85% R.H
Display	: LCD (240 x 128 pixels)
Keypad	: Membrane (3 x 4 matrix keypad)
Maximum Range of display	: ± 2000 Microns
Resolution	: 1 Micron
Weight	: 3.7 kgs



MODEL : T9

DIGITAL CONTROLLER

Operating Voltage	: 1Ø AC 110 V - 240 V
Frequency	: 50 Hz + 5%
Power Consumption	: 30 W Approx.
Ambient temperature	: 0° C to 55° C
Humidity	: Below 35% - 85% R.H
Display	: 7 segment display
Maximum Range of display	: ± 1999 Microns
Weight	: 3.8 kgs



Front Side of the Controller

LCD



DIGITAL



Touch Screen Display

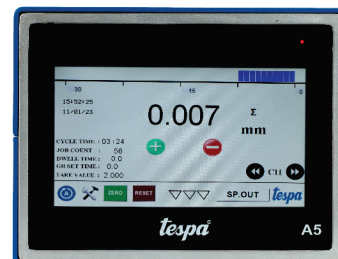


Table Mounted Two Probe Inprocess Gauge for External Diameter

MODEL : OFT2P-01

This Inprocess Gauge is suitable for grinding operation of interrupted and uninterrupted external diameters. It measures the part during grinding and gives the machine the necessary information for grinding cycle. The measured values are transmitted to the controller for coarse, fine, sparkout and wheel retraction. The result is higher precision, productivity and reliability of the process. Inprocess Gauge composition consist of a measuring head, and electronic amplifier-controller with microprocessor for CNC Machines. It is possible to install this gauge on all Cylindrical Grinding Machines.

Measuring Range 5 - 90mm

Hydraulic Base Two piston Reciprocating Hydraulic Cylinder

Repeat Accuracy ± 1 Micron

Cylinder Stroke 90mm

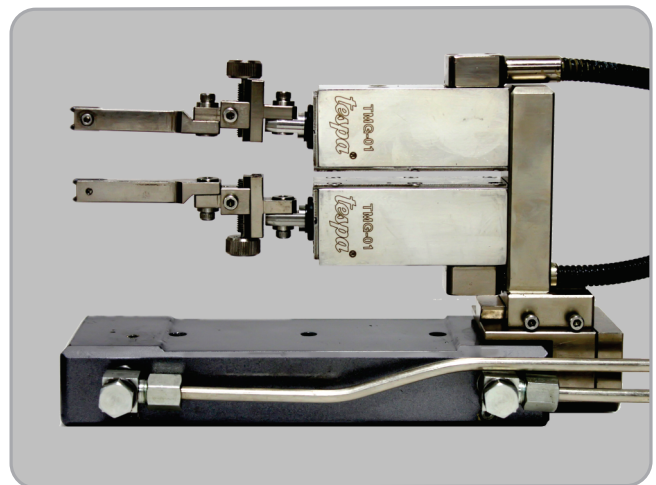
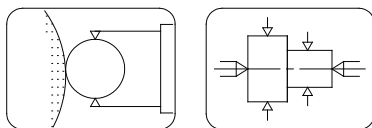


Table Mounted Two Probe Inprocess Gauge for Internal Diameter

MODEL : IFT2P-01

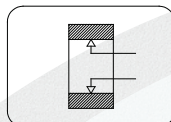
This can be independently used as internal uninterrupted diameter gauging. This gives closed loop signal to the machine and to the wheel head.

The result is higher precision, productivity and reliability of the process. Inprocess Gauge composition consist of a measuring head, reciprocating hydraulic cylinder for grinding machines. It is possible to install this gauge on all Cylindrical ID Grinding Machines.

Measuring Range 40 - 90mm

Repeat Accuracy ± 1 Micron

Cylinder Stroke 90mm



Inprocess Swing Arm Grinding Gauge

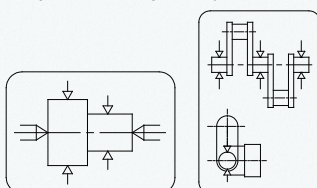
MODEL : SA1P-01

This measuring gauge head can be used for automatic inprocess size control of parts with uninterrupted surfaces and also interrupted surfaces with special calipers. After the work piece is loaded on the machine and the operation cycle is started the wheel head advances towards the work piece. The measuring head and caliper assembly is loaded on the component for measurement and control. The measured values are transmitted to the controller for coarse, fine, sparkout and wheel retraction.

Measuring Range 7 - 65mm std

Repeat Accuracy ± 1 Micron

Special Diameters on Request

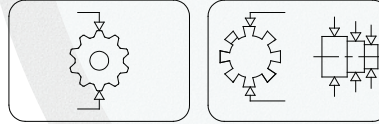


Inprocess Swing Arm Grinding Gauge for Spline Diameter

MODEL : SPL-SA1P-01

The special Spline diameter gauging caliper ensures smooth and accurate gauging of spline diameter. Smoothing agents may be required depending on parts. The Spline Caliper is special for specific diameters. After the work piece is loaded on the machine and the operation cycle is started the wheel head advances towards the work piece. The measuring head and caliper assembly is loaded on the component manually for measurement and control.

Applications are Fan Rotor, Gear Shafts, Spline Diameter Shafts, Shafts interkey way extra.



Measuring Range Specific to Diameters

Inprocess Swing Arm Mechanical Grinding Gauge

MODEL : SATM-01

Tespa Mechanical Grinding Gauge with tublar construction provide accurate method of indicating the dimensions during grinding of cylindrical components.

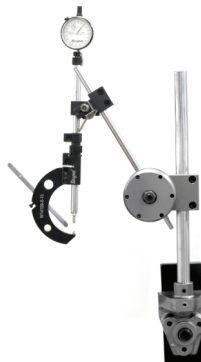
Dial type indicators can be used with adequate resolution

The measuring head is engaged by the operator on the component for gauging.

Measuring Range : 7-65mm - Standard scope

Other ranges available on request.

Repeat Accuracy : ± 2 Micron



Tespa Mechanical Grinding Gauge with flat type construction eases Inprocess measurement of parts the application requires Flat construction.

Dial type indicators can be used with adequate resolution. The measuring head is engaged by the operator on the component for gauging.

Measuring Range : 7-65mm - Standard scope

Other ranges available on request.

Repeat Accuracy : ± 2 Micron

MODEL : SAFM-01

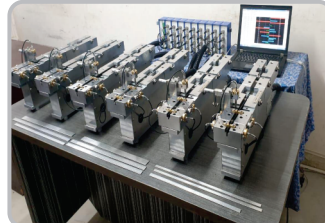


Tespa Grinding Gauges - Major Industrial Applications

CAM / CRANK SHAFTS



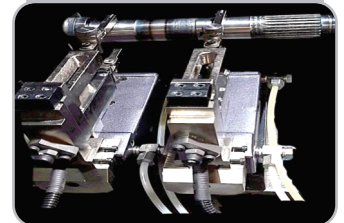
MULTI GAUGING



FLAGGING / COMPARATOR



MULTI DIA GRINDING GAUGE



In accordance with TESPA's policy to make continuing improvements, design and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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