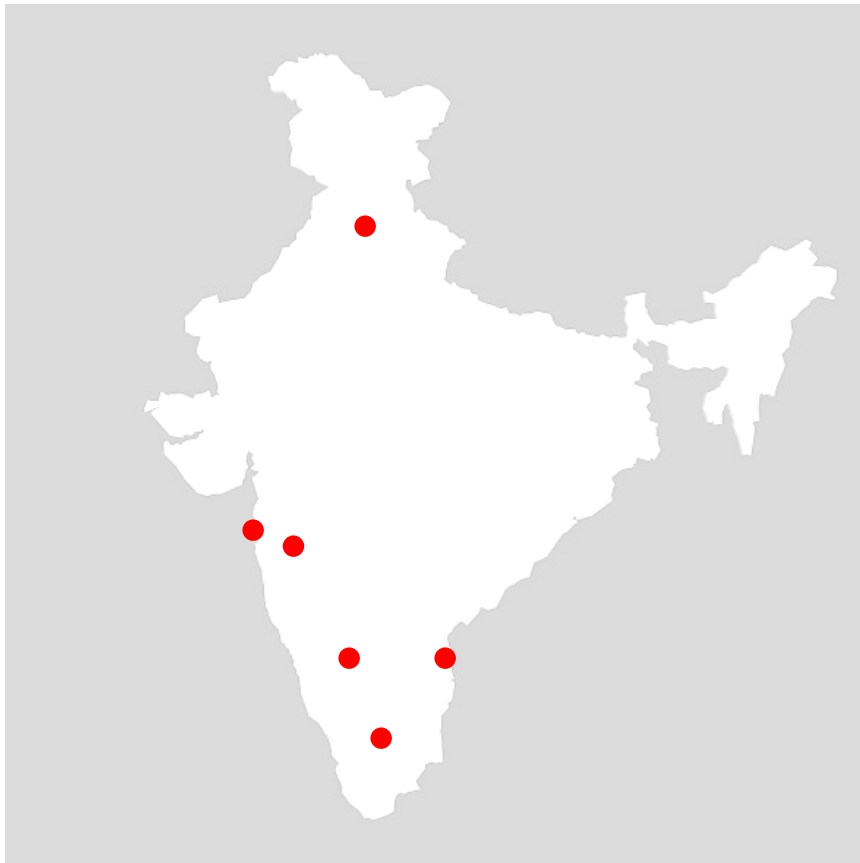


TMC MEASURING INSTRUMENTS

Since 1964



Delhi

• **SALES**

Mumbai

Pune

• **SERVICE**

Bengaluru

Chennai

• **CALIBRATION**

Coimbatore

• **TRAINING**

www.tmcinstruments.com



About TMC



Since in 1964, TMC combines the Historical Artisan Tradition with the modern High Tech Mechanics and Electronic, in view of large experience gained in the supply of hundreds of installations all over India.

TMC offers direct sales, after sales services and undertake annual maintenance services for all our different types of high accuracy contact and non-contact based measuring instruments.

TMC represents various renowned metrology products and takes active lead in development of metrology equipment's. TMC's range of products are carefully designed to meet end users' requirements and fulfill their needs while retaining the **best accuracy, and provides both flexibility and efficiency.**

Our product ranges are:

- **GAUGES FOR BORE AND GEAR MEASUREMENT.**
- **CONTACT BASED MEASUREMENT SOLUTIONS.**
- **HARDNESS TESTERS AND SAMPLE PREPARATION.**
- **CALIBRATION INSTRUMENTS AND MACHINES.**
- **OPTICAL MEASUREMENT SOLUTIONS**
- **THREAD MEASUREMENT GAGUES.**
- **IN LINE AUTOMATION SOLUTIONS (INDUSTRY 4.0)**
- **SPECIAL FIXTURES WITH WIRELESS SOLUTIONS**

- Height gauge
- Hardness tester
- Roughness tester
- Gear and taper gauges
- Thread gauges
- Plug gauges
- Profile projector
- Video Measuring Machine
- Shaft measuring machine
- Hand tools

Our products are widely used in the field of automotive, **molding, electronics, rubber / plastic components, semiconductors, precision tooling, aerospace, aviation** and many more.



One of the strong focus of TMC is providing Testing facilities at its laboratory at Pune .

DIMENSIONAL INSPECTION SERVICES

Calibrations Gauges

Equipment

On - Site Calibration CMM

Profile Projector

Hardness tester

Height Gauges

Video Measuring Machines

Inspection Activities on CMM

Vision System

Contourograph

Surface Roughness

CAD Comparison

3rd Party Inspection



WE REPRESENT



DIATEST Germany

FUTURETECH Japan

TESA Switzerland

KORDT Germany

Dr. HEINRICH SCHNEIDER Germany

IBR - MESSTECHNIK GMBH Germany

SHREEJI METROLOGY India

WESTERN PEGASUS UK

MICROREP Italy

HORST KNÄBEL GMBH Germany

PRECISION GAGE COMPANY USA





- Video Measuring Machines
- Vertical profile projector
- Universal Length measuring machine



Video Measuring Machines

A



**MANUAL AND SEMI AUTOMATIC
VMM WITH RENISHAW TOUCH PROBES**

Measuring range
In X 150 to 400
In Y 100 to 300
In Z 100 to 200

Measuring Accuracy
In X and Y axis
($2.5+L/200$) μ m
In Z axis
($5.0+L/200$) μ m

Resolution 0.5 μ m

Repeatability 2 μ m

Magnification Image magnification 0.7X to 4.5X
28X to 180X

CCD 470000 pixel
colourful camera

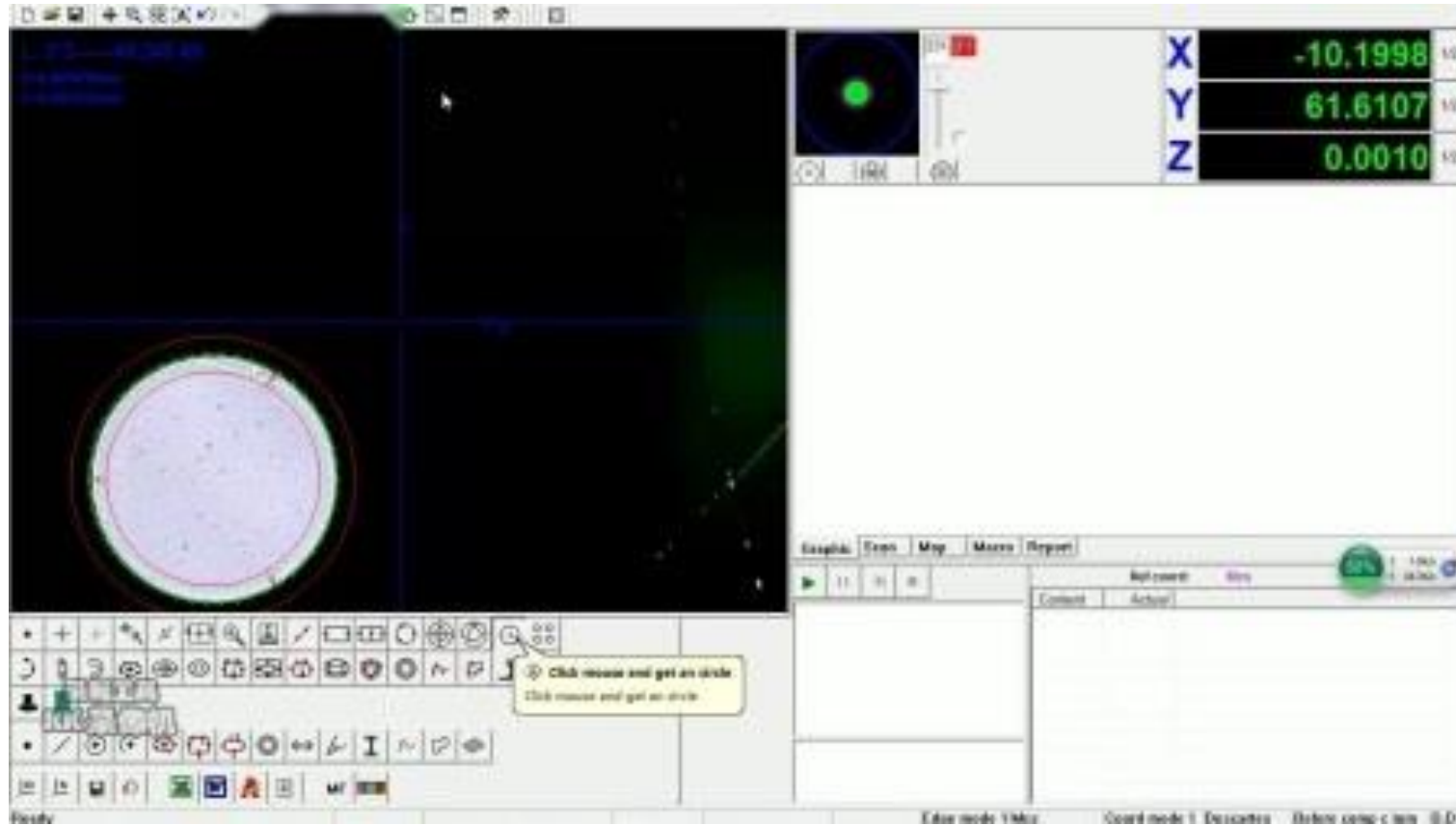
Light Source Programmed
controlled LED cold
Light

Operation Manual / semi
automatic with
touch probe



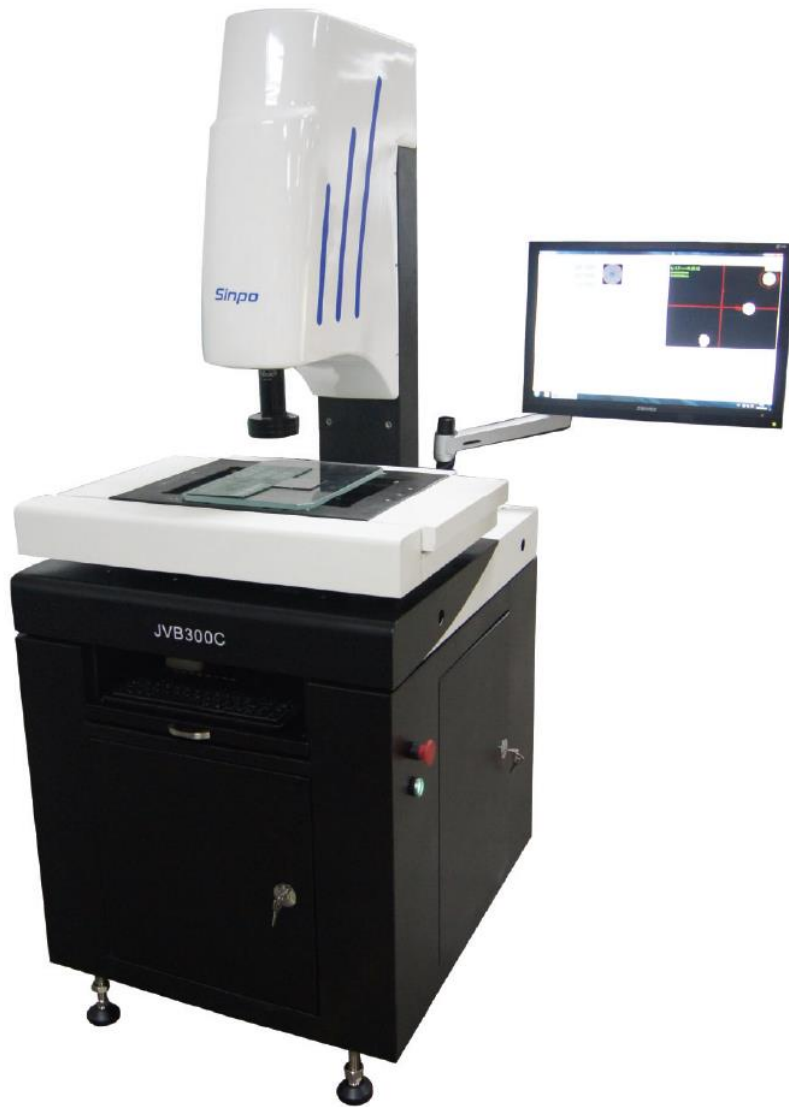
Video Measuring Machines

A



Video Measuring Machines

A



**FULLY AUTOMATIC / CNC BASED
VMM WITH RENISHAW TOUCH PROBES**

Measuring range	In X 150 to 400 In Y 100 to 300 In Z 100 to 200
Measuring Accuracy	In X and Y axis (3+L/200)µm In Z axis (5.0+L/200) µm
Resolution	0.5µm
Repeatability	2µm
Magnification Image magnification	0.7X to 4.5X 28X to 180X
CCD	HD colourful Special CCD camera
Light Source	Programmed controlled LED cold Light
Operation	Fully automatic / with touch probe also available



Vertical profile projector

B



JT 20 at 300 Diameter

Screen size 300 , 400

Measuring Accuracy $(3+L/75)\mu\text{m}$

Resolution $1\mu\text{m}$

Repeatability $2\mu\text{m}$

Magnification 10X , 20X , 25X , 50X

Field of view Depending on model

Magnification Error 0.08%

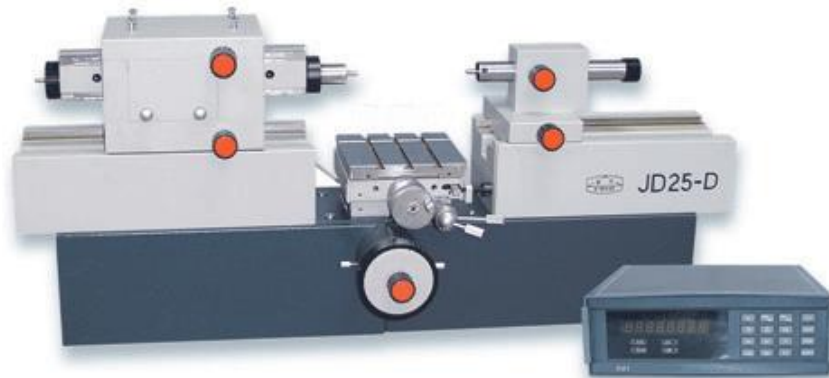
Light Source 24V 250W halogen tungsten lamp

Load capacity 5 ; 10 ; 20kg

Universal Length measuring machine

C

JD25-D



Measuring force 1.5N & 2.5N

Resolution 0.1μm

Repeatability 0.3μm for external size
0.5μm for internal size

Accuracy $\pm(0.5+L/200)$ 0.1μm

Load capacity 10 Kg

JD36-H



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