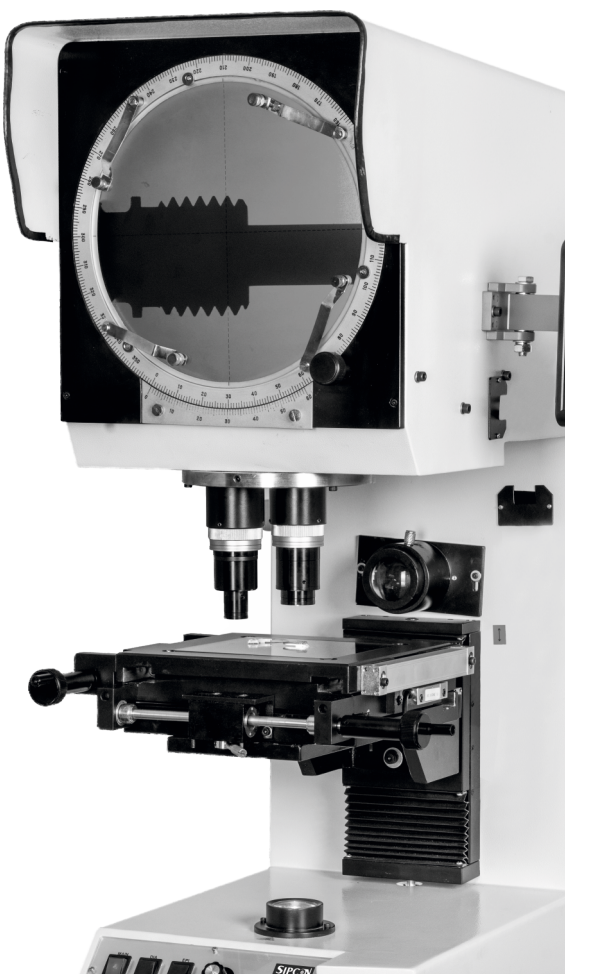
SIPCON
Technologies Pvt. Ltd.

Profile Projectors

Making Measurements
Error Free & **Operator** Free



Making Quality to

Measure Quality

Established in 1971 SIPCON offers a comprehensive and superior lineup of quality Profile Projectors, Vision Measuring Systems, Industrial Vision Inspection Solutions and Coordinate Measuring Machines - the largest range in the world.

With a network of fully trained support team SIPCON provides full after sale service and support second to none. The name SIPCON stands snonymous with the ultimate precision quality and reliability

Best Microscope Manufacturer Award

Bhartiya Udyog Ratan Award

7 Patents Approved

7500 USERS DELIGHTED

All Across the globe

इसरो isro · Hero · KOHLER · SHRIRAM PISTONS · BASEC

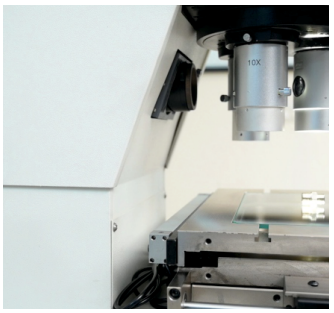
HAL · TVS RUBBER · KEI Wires & Cables · ANCHOR · POLYCAB WIRES & CABLES · RR KABEL

SANDHAR Growth. Motivation. Better Life · ROCKMAN · UNO MINDA · motherson · Austech INDUSTRIES

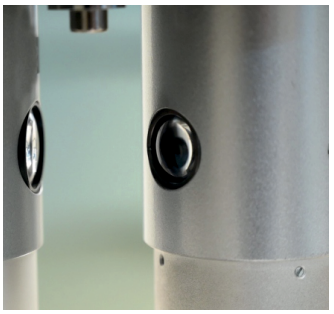
fedcab A UNIT OF FTC-UAE · Johnson & Johnson · PHILIPS · ERDA · V-GUARD · LAPP GROUP · LAPPINDIA

ROOP Roop Polymers · TATA · HYUNDAI · هيئة كهرباء ومياه دبي Dubai Electricity & Water Authority · Panasonic · BHEL

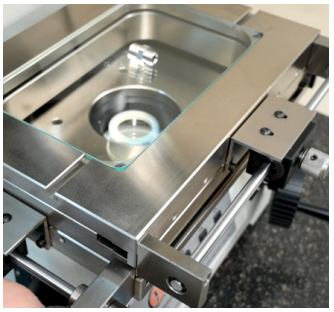
Co-Axial
Profile Projector



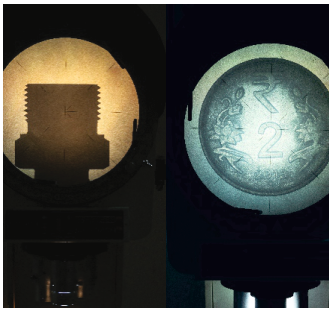
Focusing By Moving
Projection Screen



Co-axial Lenses



Threadless Workstage



Outstanding Illumination

SPN-300

Co-Axial
Profile Projector

SPN Series

SPN-300

SCREEN
Size: 300 mm diameter
Construction: Vertical bench top Opaque glass screen with cross line (0-360°) L.C. 1 min
Location: Above the workstage
Image Type: Erect & unreversed

WORKSTAGE SIZE
Std: 410 mm x 310 mm
Opt: X-axis upto 550 mm,
Y axis upto 350 mm

MEASURING RANGE
Std: 250 mm x 150 mm
Opt: Upto X axis - 400 mm,
Y axis - 200 mm

LIGHT AXIS
Vertical & surface light - Coaxial (through the lens)

FOCUSING
Travel: 100 mm
Method: By raising & lowering the optical head
Movement: Manual

LINEAR MEASUREMENT
Built in glass scale/Linear encoder

OPTICS
Std: 10X, 20X - Parafocal
Opt: 50X, 100X
Mount: 3 lens turret mount

ACCURACY
Mag.: ±0.05% (Contour/Surface)
Measuring: X,Y (± 3 + L/100) µm

WORKPIECE HEIGHT
100 mm

MEASURING SYSTEM
D.R.O./Software

ILLUMINATION
Contour: 24V/150W halogen lamp with control & fan cooling
Surface: Twin 24V 150W halogen lamp on axis vertical to provide coaxial light system with fan cooled system

RESOLUTION
Linear: 0.001/0.0005 mm
Angular: 1 sec

REPEATABILITY
±0.003mm

MOTORIZED MOVEMENT
Opt: (X, Y, focusing with speed control)

POWER SUPPLY
AC - 110/220V (50/60 Hz) single phase

Vertical
Profile Projector

Benchtop - SP Series

SP-300

SP-400

SCREEN
Size: 300/400 mm
Construction: Opaque glass screen with 90° cross line fitted with graduated rotary line (0-360°) operated by knob, L.C. 1 min.

WORKSTAGE SIZE
Std: 250 mm x 250 mm
Opt: X-axis upto 550 mm, Y axis upto 350 mm

MEASURING RANGE
Std: 100 mm x 100 mm
Opt: Upto X axis - 400 mm, Y axis - 200 mm

LIGHT AXIS
Vertical

FOCUSING
90 mm/100 mm

LINEAR MEASUREMENT
Micrometers/Built in glass scale

OPTICS
Std: 10X
Opt: 20X, 50X, 100X
Mount: 3 lens turret mount/Screw mount

ACCURACY
Magnification: ±0.05% (Contour/Surface)
Measure: 3 + L/100 µm

MEASURING SYSTEM
Micrometer/D.R.O./PC based software

COOLING SYSTEM
Fan

ILLUMINATION
Contour: 24V/150W halogen lamp, illumination control with condenser unit provide light as per lens
Surface: Twin 24V 150W halogen lamp

RESOLUTION
Linear: 0.001/0.0005 mm
Angular: 1 sec

MOTORIZED MOVEMENT
Opt: (X, Y, focusing with speed control)

OPTIONAL HARDWARE
Profile Charts, Rotary Table, V-block, Centre Holding Device Opto Edge Sensor, Rotary Encoder

POWER SUPPLY
AC - 110/220V (50/60 Hz) single phase

STAND
Unique rigid pedestal system facilitates vibration free handling of component

Vertical
Profile Projector

Floor Model - SV Series

SV-400

SV-600

SV-800

SCREEN
Size: 400/600/800 mm
Construction: Opaque glass screen with 90° cross line fitted with graduated rotary line (0-360°) operated by knob, L.C. 1 min.

WORKSTAGE SIZE
Std: 250 mm x 250 mm
Opt: X-axis upto 550 mm, Y axis upto 350 mm

MEASURING RANGE
Std: 100mm x 100mm
Opt: Upto X axis - 400mm, Y axis - 200mm

LIGHT AXIS
Vertical

FOCUSING
90mm/100mm

LINEAR MEASUREMENT
Micrometers/Built in Glass Scale

OPTICS
Std: 10X
Opt: 20X, 50X, 100X
Mount: 3 lens turret mount/Screw mount

ACCURACY
Magnification: ±0.05% (Contour/Surface)
Measure: 3 + L/100 µm

MEASURING SYSTEM
D.R.O./PC based software

COOLING SYSTEM
Fan

ILLUMINATION
Contour: 24V/150W halogen lamp, illumination control with condenser unit provide light as per lens
Surface: Twin 24V 150W halogen lamp

RESOLUTION
Linear: 0.001/0.0005 mm
Angular: 1 sec

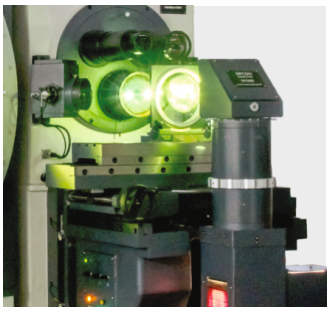
MOTORIZED MOVEMENT
Opt.(X, Y, focusing with speed control)

OPTIONAL HARDWARE
Profile Charts, Rotary Table, V-block, Centre Holding Device Opto Edge Sensor, Rotary Encoder

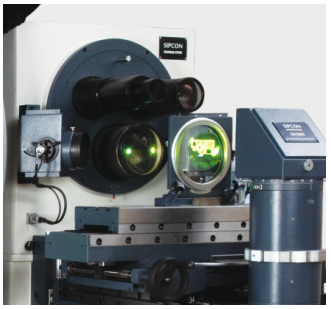
POWER SUPPLY
AC - 110/220V (50/60 Hz) single phase

STAND
Unique rigid pedestal system facilitates vibration free handling of component

Side Bedded Horizontal
Profile Projector

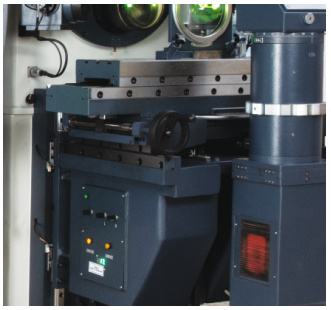


Built-in Condensor System



Turret Mounted Lenses

Graduated Screen



High Load Capacity

SH-1200

Side Bedded Horizontal
Profile Projector

SH Series

SH-1000

SCREEN

Size: 1000/1200 mm diameter
Construction : Side bedded horizontal opaque glass screen with cross line
Location: Sideways fitted with graduated ring (0-360°) L.C. 1 min, through digital counter

WORKSTAGE SIZE

Size: 800 mm x 200 mm
Travel: X-axis 400 mm, Y-axis 250 mm, Z-axis 120 mm (Motorized)
Helix: Rotation ±15° L.C. 10 min
Load Capacity: 200 kgs
Max. dia. hold capacity: 300 mm
Max. length hold capacity: 450 mm

LINEAR MEASUREMENT

Built in glass scale/Linear encoder

OPTICS

Std: 10X, 20X, 50X, 100X
Mount: Turret mount

ACCURACY

Mag.: ±0.1% (Contour/Surface)
Measuring: E1=2+L/80µm, E2=3+L/33µm

MEASURING SYSTEM

D.R.O./Software

ILLUMINATION

Contour: 24V/150W halogen lamp with illumination with fan cooled system
Surface: Twin 24V 150W halogen lamp

RESOLUTION

Linear: 0.001/0.0005 mm,
Angular: 1 sec

REPEATABILITY

±0.003 mm

EDGE SENSOR

Internal/External

DIMENSIONS

3700 mm X 2500 mm X 2300 mm

WEIGHT

4500 Kgs

POWER SUPPLY

AC - 110/220V (50/60 Hz) single phase

Horizontal
Profile Projector

Benchtop - SH Series

SH-300

SH-400

SCREEN
Size: 300/400 diameter
Opaque glass screen with 90° cross line, L.C. 1min.

WORKSTAGE SIZE
Std: (400 x 150) / (450 x 200) mm

MEASURING RANGE
Std: (150 x 100) / (200 x 100) mm
(200 x 150) mm
Opt: X-axis upto 350 mm,
Y-axis upto 250 mm

LIGHT AXIS
Horizontal

FOCUSING
75 mm / 100 mm

LINEAR MEASUREMENT
Built in Glass Scale/Linear Encoder

OPTICS
Std: 10X
Opt: 20X, 50X, 100X
Mount: Turret with Click Stop

PROJECTION ACCURACY
±0.05% (Contour/Surface)

HELIX RANGE
±12° / ±15°

MEASURING SYSTEM
D.R.O. / PC based software

COOLING SYSTEM
Fan

ILLUMINATION
Contour: 24V/150W halogen lamp, illumination control with condenser unit provide light as per lens
Surface: Twin 24V 150W halogen lamp

MOTORIZED MOVEMENT
Optional (X, Y, focusing with speed control)

OPTIONAL HARDWARE
Profile charts, Rotary table, V-block, Centre holding device opto edge sensor, Rotary encoder

POWER SUPPLY
AC - 110/220V (50/60 Hz) single phase

Horizontal
Profile Projector

Floor Model -SH Series

SH-600

SH-800

SH-1000

SCREEN

Size: 600/800/1000 mm diameter
Opaque glass screen with 90° cross line , L.C. 1 min.

WORKSTAGE SIZE

Std: 450 x 200 mm
Opt: Upto 600 mm

MEASURING RANGE

Std: (200 x 150) mm
Opt: X-axis upto 400 mm, Y-axis - 250 mm

LIGHT AXIS

Horizontal

FOCUSING

Travel: 100 mm
Movement: Manual/Motorized

LINEAR MEASUREMENT

Built in Glass Scale with D.R.O

OPTICS

Std: 10X
Opt: 20X, 25X, 50X, 100X
Mount: Turret with Click Stop/ Screw Mount/ Slide Mount

PROJECTION ACCURACY

±0.05% (Contour/Surface)

HELIX RANGE

±12° / ±15°

MEASURING SYSTEM

D.R.O. / PC based software

COOLING SYSTEM

Fan

ILLUMINATION

Contour: 24V/150W halogen lamp, illumination control with condenser unit provide light as per lens
Surface: Twin 24V 150W halogen lamp

MOTORIZED MOVEMENT

Optional (X, Y and focusing)

OPTIONAL HARDWARE

Profile charts, Rotary table, V-block, Centre holding device opto edge sensor, Rotary encoder

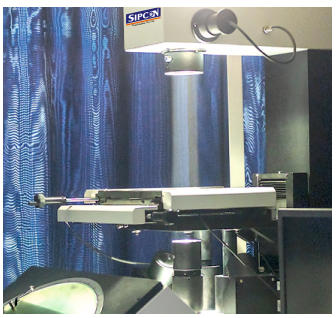
POWER SUPPLY

AC - 110/220V (50/60 Hz) single phase

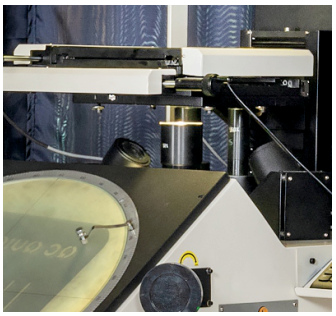
STAND

Unique rigid predestal system for vibration free handling

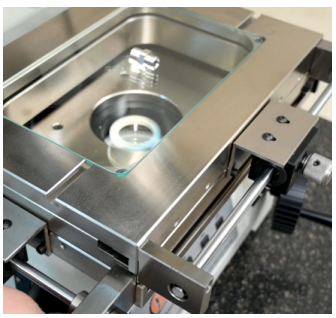
Shadograph
Profile Projector



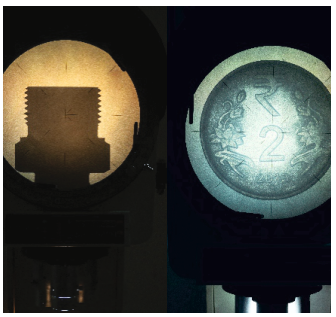
Parallel Illumination



Turret Mounted Lenses



Threadless Workstage



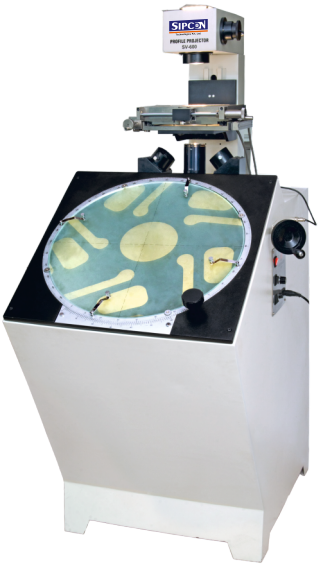
Outstanding Illumination

SVS-800

Shadograph
Profile Projector

SVS Series

SVS-300



SVS-600

SVS-800

SCREEN

Size: 300/400/600/800 mm dia. Opaque glass screen with 90° cross line Fitted with L.C. 1min.

WORKSTAGE SIZE

Std: 160 X 160 mm
200 X 200 mm, 260 X 260 mm

MEASURING RANGE

Std: 50 X 50 mm, 100 X 100 mm
Opt: X-Axis upto 400 mm,
Y-Axis upto 200 mm

AXIS LIGHT

Vertical

FOCUSING

100 mm

LINEAR MEASUREMENT

0-25µm with LC 0.001 mm
0-25µm Micrometers/ Built-in glass scale

OPTICS

Std: 10X
Opt: 20X, 25X, 50X, 100X
Mount: Screw Mount

PROJECTION ACCURACY

±0.05% (Contour/Surface)

MEASURING SYSTEM

Micrometers / D.R.O. / PC based software

COOLING SYSTEM

Fan

ILLUMINATION

Contour: 24V/150W halogen lamp, illumination control with condenser unit provide light as per lens
Surface: Twin 24V 150W halogen lamp

MOTORIZED MOVEMENT

Optional (X, Y and focusing)

OPTIONAL HARDWARE

Profile charts, Rotary table, V-block, Centre holding device opto edge sensor, Rotary encoder

POWER SUPPLY

AC - 110/220V (50/60 Hz) single phase

STAND

Unique rigid pedestal system facilitates vibration free handling of component

Camera Based
Profile Projector

SVI-CH Series

SVI-CH-DR

SVI-CH-SW

MEASURING SYSTEM
GEO D.R.O. / SIPMEAS/ M2 Software

MEASURING RANGE
Std: 100 X 100 mm
Opt.: X-Axis upto 500 mm,
Y-Axis upto 400 mm

FOCUSSING RANGE
100 mm (without encoder)

RESOLUTION
0.001/ 0.0005 mm

LINEAR ACCURACY
(3+L/200) micron

REPEATABILITY
±(0.002 mm)

VISION
1/3" High Resolution CCD Camera

MAGNIFICATION
Optical Magnification 0.7X - 4.5X

MEASUREMENT METHOD
With Cross-Hair on Screen

BASE PLATFORM
Metal

OPERATION
Manual with Quick Release Knob

LOAD CAPACITY
10 KGs

ILLUMINATION
Surface : LED
Contour : LED

JOYSTICK
Optional

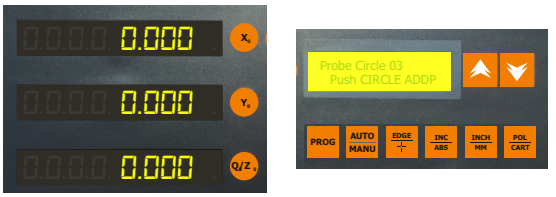
POWER SUPPLY
220-240 V ±5%, 50/60 HZ

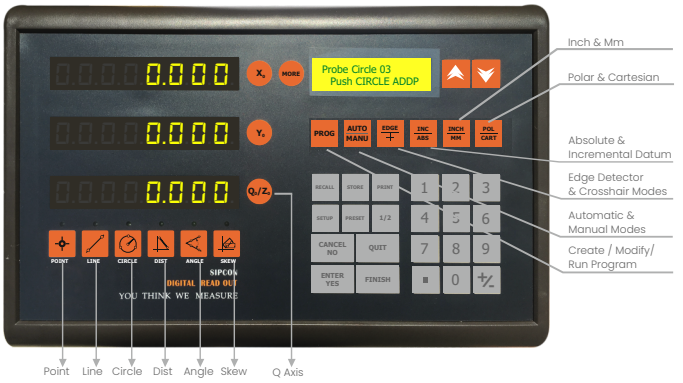
OPTIONALS
Optional (Binocular / Trinocular)

Sipcon Digital Readout

Screen Display

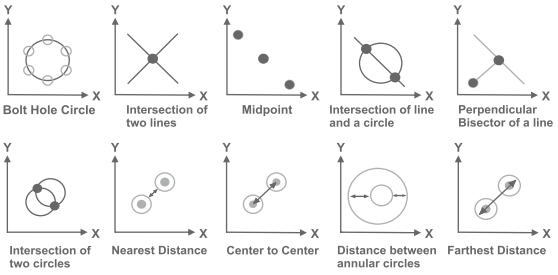
Two screen display on digital readout shows the present values of X & Y coordinate axis along with the measurement results and second display will shows the selected feature for measurement.





Construction

Select two or more features to create intersections or constructions. Reduces operator effort by eliminating confusing construction menus.



Part Alignment & Skewing

Accurate measurements require the part to be perfectly aligned. Skew function converts machine coordinates to part coordinates and compensate for part misalignment.

Programming

PROG

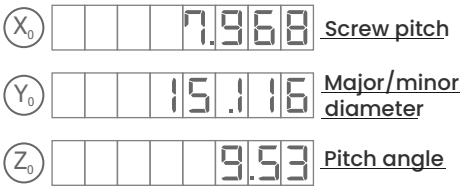
Quickly and easily create, edit and run part programs. Measure the same number of points per feature, in the identical sequence part after part.

Print Output

PRINT

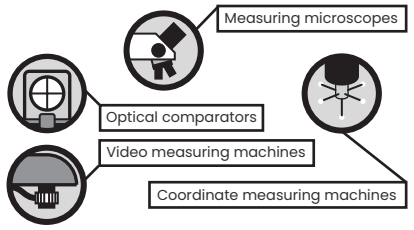
Print measurement results using a thermal printer in an easy to read 40 or 80 column format.

Screw



Measure Easy

To measure, simply probe points and click. It automatically detects, the feature type being measured which speeds throughput, improves accuracy and reduces user fatigue.



Data Management & Output

IO

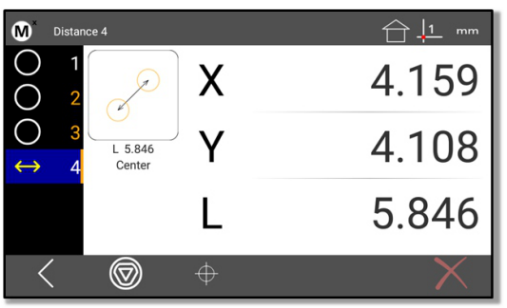
Parallel and serial ports makes it easy to transfer data to PCs, networks and printers.

Lec (linear Error Compensation)

Compensates for encoder and machine travel variations using error correction coefficients developed by comparing actual measurements of a standard to the standard's nominal values.

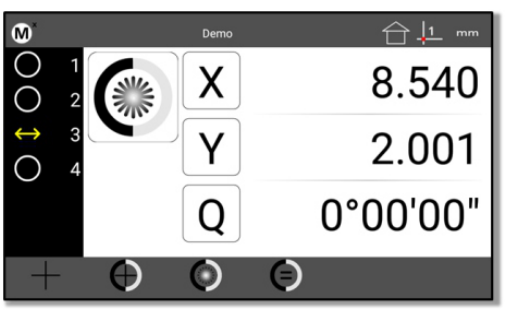
A Simple & Innovative Readout Solution

METLOGIX'S MLX-200



Clean, Intuitive Design

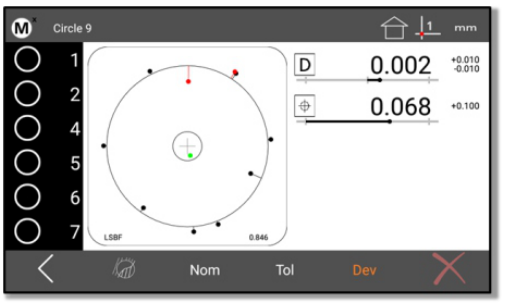
Combining a familiar user experience with current touchscreen conventions, the Mx200 readout can quickly be integrated into your process while being accessible to a wide range of users.



Report Print Export

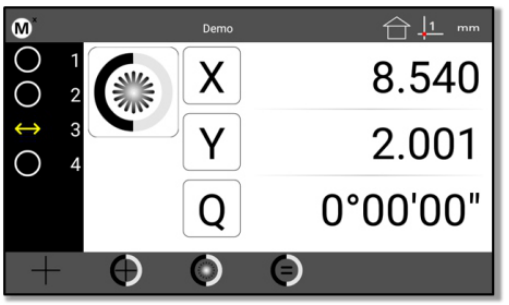
Choose from one of three report formats; CSV, Standard, or Tolerance. Report contents can include a report title, time and date stamps, and all feature measurement result data.

Export choices include:
Paper Printer(USB, Wifi,Bluetooth), Save to file(USB), RS232 Output



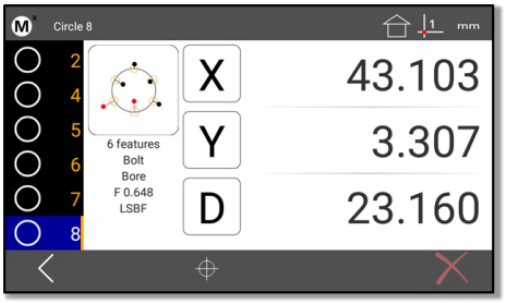
Geometric Tolerancing & Part Programming

Apply popular geometric tolerance controls to measured and constructed features using the industry leading Metlogix tolerance system. Apply nominal and tolerance limits quickly, and view results accurately, in the large and easy to read data views. Record inspection routines for simple playback of measurements, tolerance controls, and data handling and printing steps.



Optical Edge and Crosshair Probes

Available for both Optical Edge and Crosshair only measurement systems the Mx200 probing options are simple and intuitive. The exclusive **EdgeLogic™** feature enables gesture driven control of start and end measurement commands, alleviating the need to interact with the DRO directly. Just cross the same edge twice to start and end measurements!



Features and Constructions

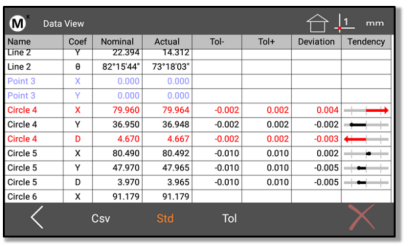
- Intersections
- Mid/Center Point
- End Point
- Bolt Circle
- Shortest Distance
- Tangent Line
- Farthest Distance
- Angle Compliments
- Perpendicular Lines
- Gauge Circle/Line

Stage Calibrations

Linear Error Correction(LEC)
Segmented Linear Correction(SLEC)
Non-Linear Error Correction(NLEC)
Squareness correction.

Report-Print & Export

Choose from one of three report formats; **CSV, Standard,** or **Tolerance.**
Include a report title, time and date stamps, and all measurement data.
Print hard copies on Windows compatible printers,
Export as **PDF** or CSV data files.
Export choices: Paper Printer (**USB**, Wifi, Bluetooth), Save to file(USB), RS232 Output

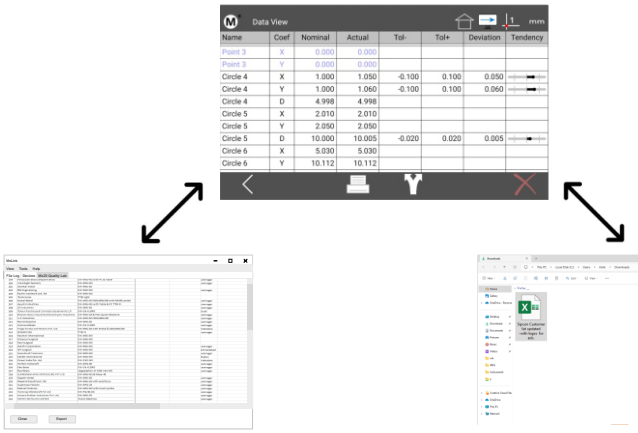


Wireless Data Transfer

-Transfer measurement data instantly and wirelessly from your Mx200 readout to a network window computer.

Send data quickly and easily

Transfer results files (CSV/TSV) from one or more connected readouts, to a designated folder on the Windows PC. Data received in the MxLink application can also be easily viewed in an individual "tabbed" window.

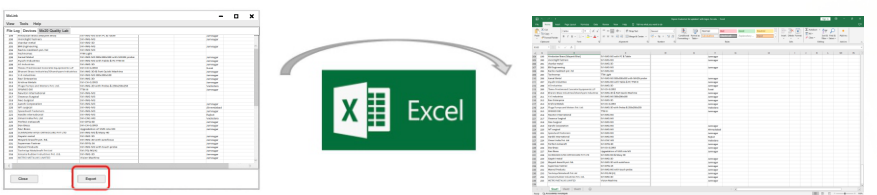


-data to the MxLink Application.

-Results File to a Window folder

Transfer MxLink data directly to Excel

For more advanced data calculations simply press Export to transfer selected MxLink results to a blank Excel sheet.

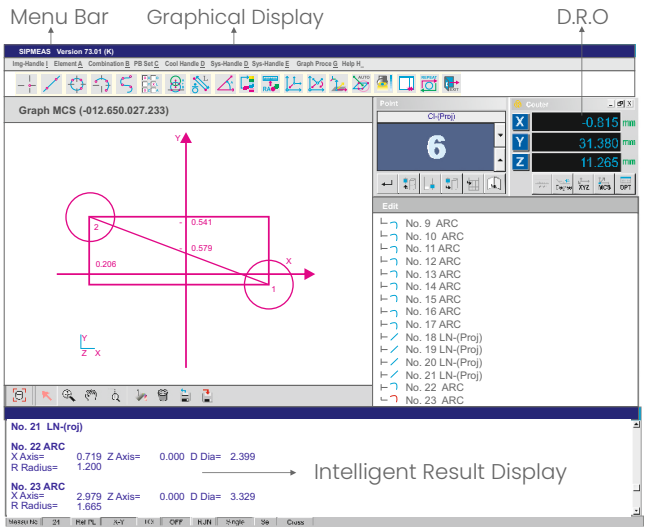


-Press "Export" to send data directly to Microsoft Excel.

Measuring Software

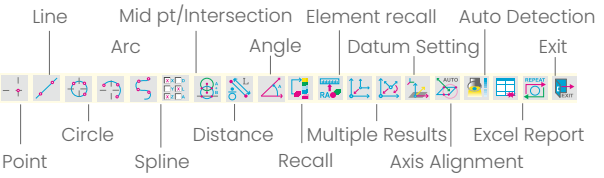
SIPMEAS

Software Desktop



Menu Bar

One touch menu bar for all basic geometric measurements.



Tolerance Setting & Result Display

Result Display

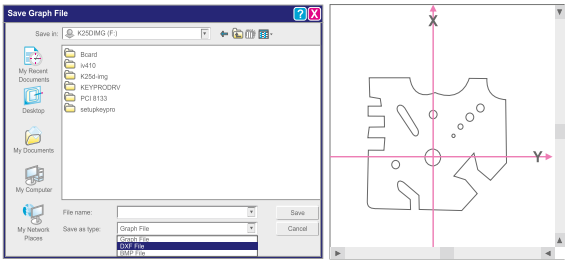
No. 21 LN-(Proj)

No. 22 ARC
X Axis= 0.719 Z Axis= 0.000 D Dia= 2.399
R Radius= 1.200

No. 23 ARC
X Axis= 2.979 Z Axis= 0.000 D Dia= 3.329
R Radius= 1.665

Data Management-Export and Calculations

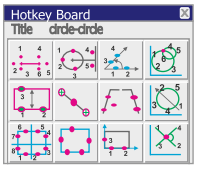
Directly saving graphs as DXF or IGS files makes it possible to export our measurement to CAD.



- **Inch/metric** Conversion
- Up To **500 Points** Allowed On Each Feature
- **Auto Recognition** : Just Input The Points It Will Tell you What Feature Is This.
- Both **Cylindrical & Cartesian** Coordinate System.
- Angle Display In **Degree-min-sec Or Decimal Degree.**

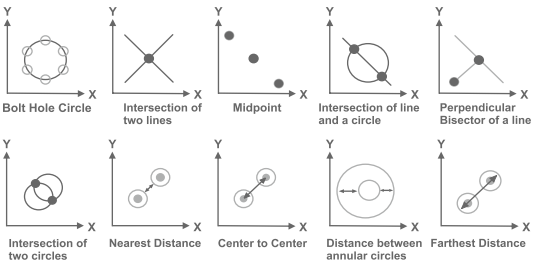
Program Hotkey Board

Make icons for your part programs. Next time, just press it and start the measurement. So with this software just measure one part for the others it will guide you how to measure



Construction Capabilities

Select two or more features to create intersections or constructions.



M2 Measuring Software

Features

2D- Point, Lines, Circles, Arcs
Slots, Rectangles, Blobs
Distances, Angles

Calibrations

LEC, SLEC, NLEC

Applications

Reverse engineering
In line production
Quality Inspection

Constructions

2D- Point, Lines, Circles, Arcs
Midpoints, Mid Lines, PCD,
Distances, Intersection, Bisectors,
Offset, Angles

Tolerances

Size, Form, Orientation,
Position, Runout

Programming

Measure & program

Measurement Modes

Polar/Cartesian
DMS/ DD
MM/ INCH

Datumming Features

Skew Alignment
Datum (Origin) Points
Reference Axis Rotation & Skew

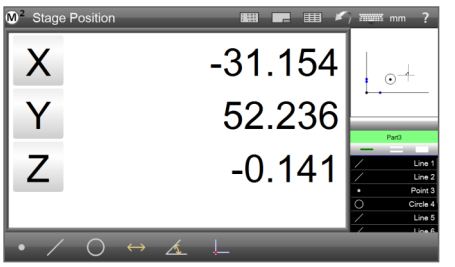
Exports

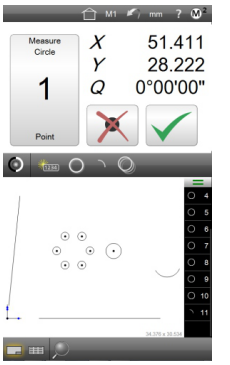
PDF, DXF, Excel, CSV, TSV(Tab)
Data trasmit to RS 232 port

Support for Optical Edge

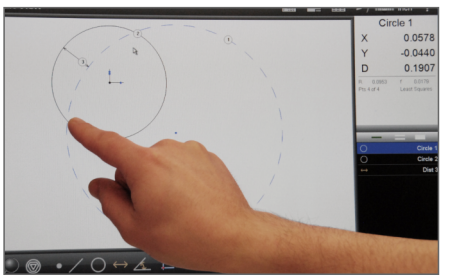
Clean, Intuitive Design-Available in Horizontal or Vertical formats

The user interface design of the M2 software means you'll spend more time measuring and less time reading manuals.



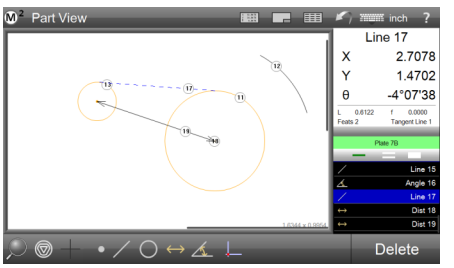


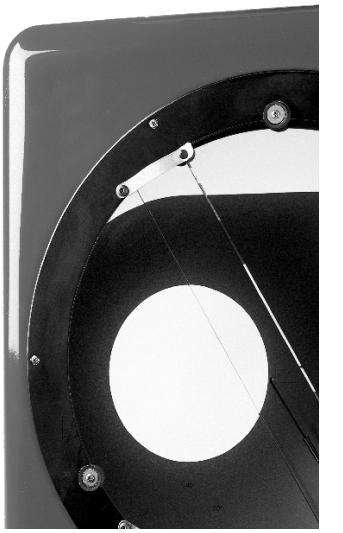
Designed for Multi-Touch software control



Mouse & Multi-Touch interface for versatile pan and zoom of the active part view. Increase the efficiency with a simple pinch zoom, swipe pan, or double click.

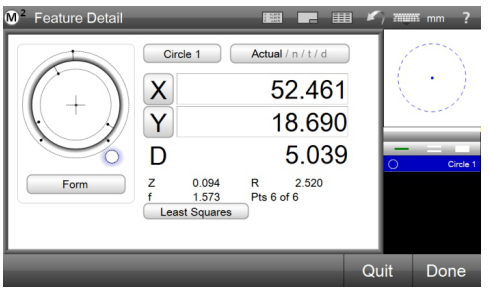
Graphics-based "Part View" constructions





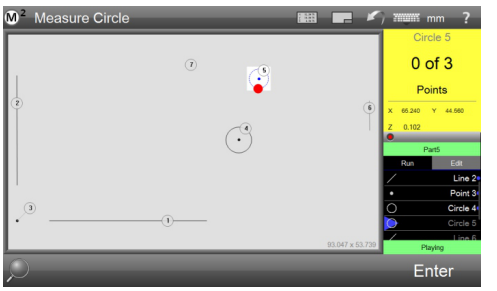
M2 Measuring
Solution Features

Features Detail Graphics



Individual feature view provide informative drawings displaying point cloud distributions, as well as nominal deviations, and tolerance results. Set the desired data fit type from the "Actual" screen using the “fit toggle" button.

Part Programs and Playback



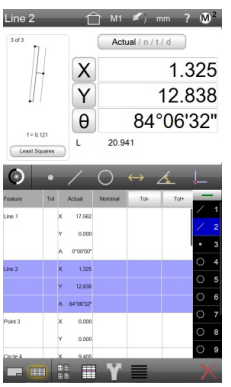
Part program files, when loaded, will prepare the M2 software to repeat a sequence of feature measurement steps, printed reports, and exported measurement data. by providing helpful on-screen instructions.

Reports

Reports can be fully customized to suit user requirements.

The following customizations are possible:

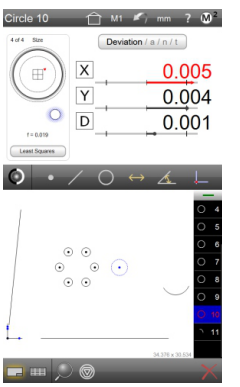
- Data format
- Header information (Company Name)
- Header and footer graphics (Logo and Page no)
- Add Part view graphics in report
- Add time and date stamps,
- Add operator or part information



Geometric Tolerancing

Supported tolerances include:

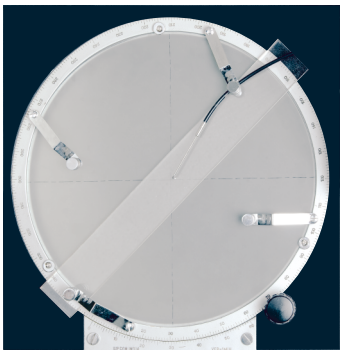
X/Y/Z Positional,
Diameter/Radius/Length/Width,
Size, Theta (Angle) Form,
Parallelism, Angularity,
True Position (LMC/MMC Modifiers)
Straightness,
Perpendicularity,
Roundness,
Concentricity,
Runout



Supported construction types:

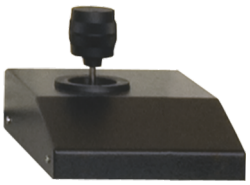
Average	Mid/Center
Point(s)	End Point(s)
Intersections	Shortest Distance
Farthest Distance	Tangent Line(s)
Gage Circle(s)	Bolt Circle
Angle Compliments	Perpendicular/Parallel Line(s)
Offset	Skew Lines

Accessories



Opto Edge Sensor

For Automatic Edge Detection
Reduces the operator error
Increases throughput
Available with MLX200, M2
Increases the speed of inspection
Highly recommended for CNC Profile Projector



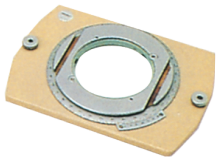
Motorized Controller with Joystick

Foot Switch

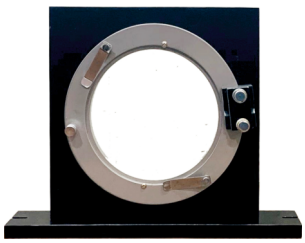
Fibre Optic Light

V Block

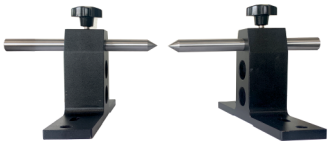
Center Holding Device



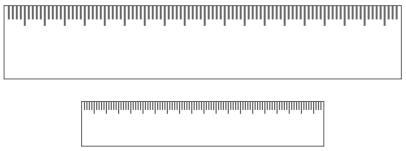
Rotary Table



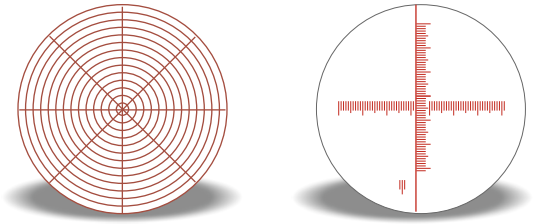
Vertical Holding Device



Between Center



Calibration Scale



Profile Charts for Comparison

Installation, Training & Online Support

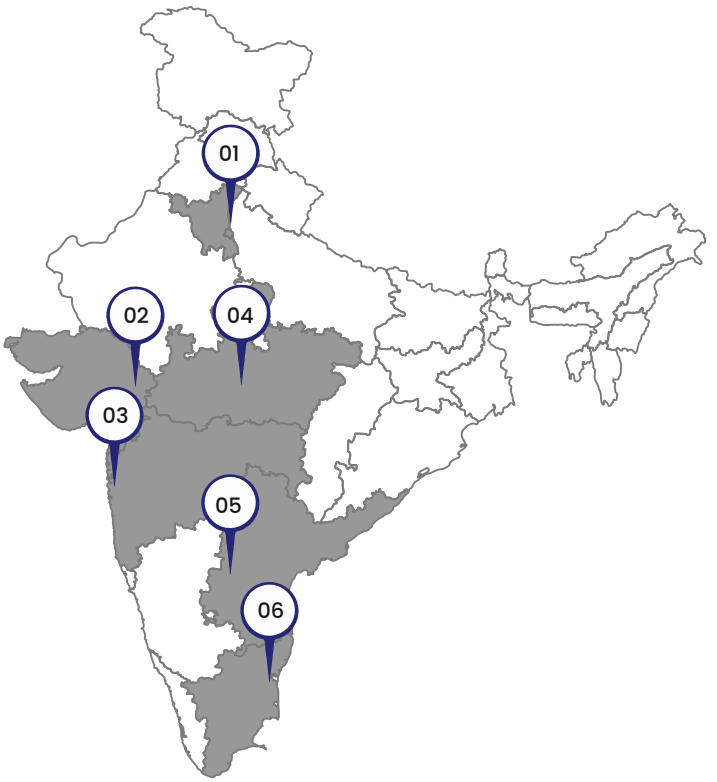
Installation and Training is for all customers and usually takes places with in 3 to 4 days of the delivery of the system at customer premises. Calibration is done free of cost after installation. Subsequent calibrations are required after every one year and are chargeable at per calibration.

We offer two type of support:

ONLINE & OFFLINE

Online support is free of cost throughout the life of the system and resolves 90% of the issues arising in system.

Indian Roots & Global Reach



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Contact Person: **Ashish Rajput - 92156 99673**

02 Rajkot
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06 Chennai
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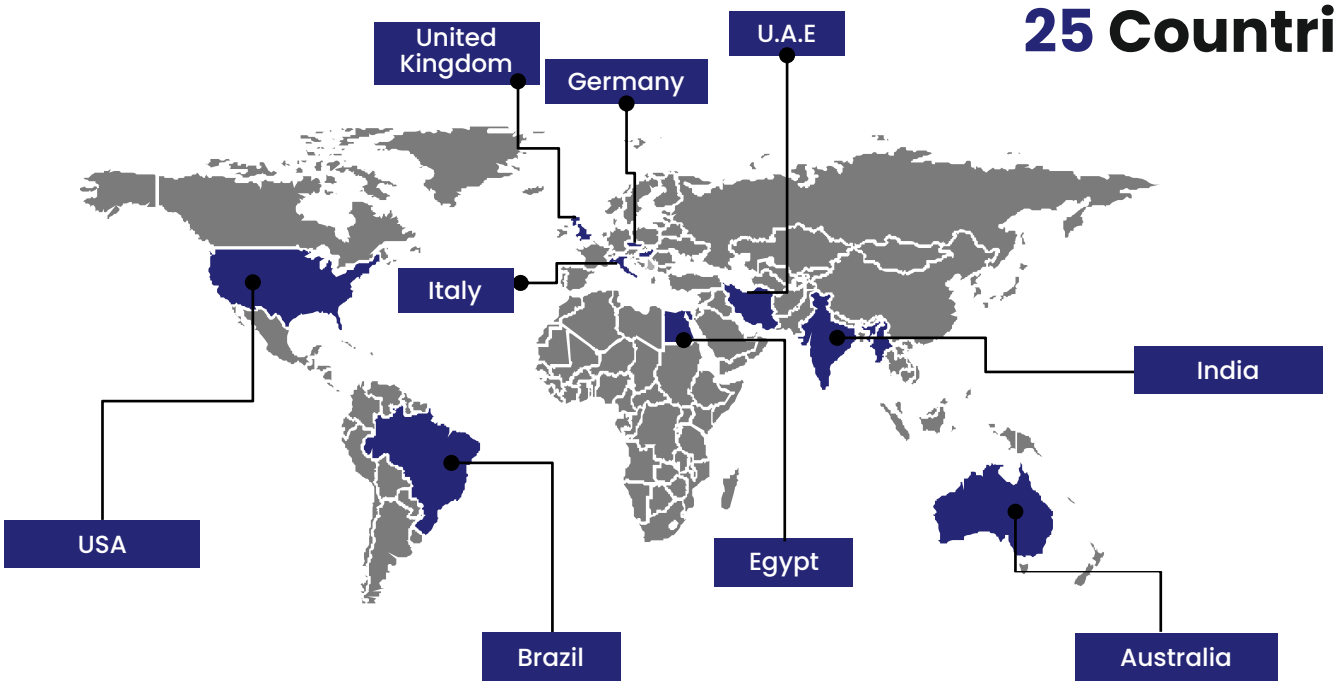
Exported To 25 Countries



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