

Product Brochure



MANLEO

The key factor for quality





“ — Manleo designs and develops products that are the best not only in terms of accuracy and precision, but also in terms of durability and longevity. Being the best means providing the **best after-sales service, after-damage service, and custom solutions**. We have over **400+ satisfied customers** who have been using our products for several years, some for over a decade. We want to help our country by offering probes at a reasonable price, and we want to take Indian manufacturing to the next level of high productivity and high quality.

— **-Abhijith Bhat, CEO** ”

Vision

Manleo's focus is develop precision machine tool products in the world with world class quality and precision with outstanding customer service to the day to day machinist across the world at a reasonable price which otherwise, they would not have access to.

Mission

To improve the quality of precision machine tools, while making it safer, easier for Operators and delivering higher profitability for organizations.

Overview of the Company

Manleo Designs was founded in 1998 in Bangalore, India. Our products are used in a variety of **industries, including textiles, aerospace, defence, pharma, die & moulds, steel, and medical equipment** that requires high precision. We are pleased to inform you that, through our extensive network of Distribution Partners, offline channels, and online presence, we are connected to over **400+ customers** across India.

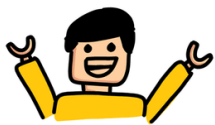
Why us?

The company's assurance stems from its unique promising product line, after-sales service, and extensive network, all of which are included with the purchase of our product. For over 20+ years, Manleo has been producing “Made in India” probes for the metrology and mechanical industries.

Our Bangalore based company has distribution partners, offline channels across India, and 400+ customers, as well as a strong online presence on various online platforms and social media.

Our Uniqueness

- Affordable
- Durable
- Quick ROI
- Assured after sales service



AFFORDABLE INVESTMENT
THAT GETS YOU PRECISE &
ACCURATE MEASUREMENTS
CONSISTENTLY



DURABLE & LONG LASTING
PRODUCTS THAT HELP YOU
ENJOY 5-10 YEARS USABLE LIFE



**EASY TO INTEGRATE, USE &
MAINTAIN** THEREBY ASSURING
PEACE OF MIND TO OWNERS &
OPERATORS

Our Products:

3D Datum Finder Probes:



Characteristics

- One sec measurement
- Datum & job reference
- Drill diameter
- Mill drill depth
- Curvature references

Technical Specifications

Basic configuration:

- The standard: MDDE-DF-20;
- All shanks supported. BT, SK, HSK, DIN, MT
- A battery, model: 4LR44, 6.0 V.

Application:

- Setting Job.
- Measuring Datum Job references
- Jig references
- Detect and control the key dimensions, position coordinates and their precision manually between two processes.
- Detect precision of the key dimensions, shapes, position after processing.

Applicable equipment and working condition:

- Suitable for various specifications of machine centers, CNC boring and milling machines, and drilling-tapping machine centers, etc;
- Suitable for checking work pieces of all kinds of solid metal materials.

Technical Parameters:

- Stylus sensing direction: $\pm X$, $\pm Y$, $+Z$
- Stylus sensing over-travel : $X-Y \pm 15^\circ$, $Z +10$ mm
- Stylus length: 50mm with 6mm SS ball
- The trigger force in Z direction: 0.1 g
- Trigger force in X-Y surface(standard stylus) : 0.1g
- Unidirectional repeatability(2σ): ≤ 5 μm ;
- Input voltage is $6/9 \pm 10\%$ V DC and output load current is 50 mA.

Technical Characteristics:

- Conductive probe with conductive electrical path from body to the stylus. By adjusting the connecting screws between the main body and plate the tool setter height can be adjusted (the factory precision: ≤ 5 μm)
- LED indicator lights are used to show the trigger state of the probe.

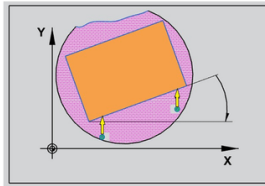
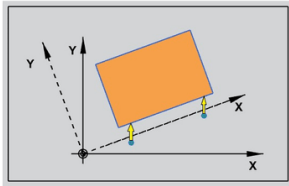
Our Products:

3D Datum Finder Probes:

PROBES APPLICATION - 1



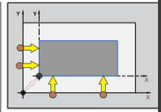
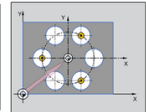
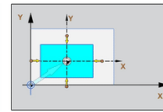
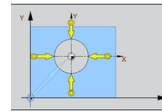
WORKPIECE
ALIGNMENT



PROBES APPLICATION - 2



PRESET
SETTING



OUR DATUM FINDER'S BIGGEST VALUE IS SAVING OF TIME, ACCURACY OF 1-2 MICRONS IS A BONUS FOR MOST OF OUR CUSTOMERS

USING PAPER OR DIALS, TAKING CENTER OF BORE CAN TAKE 3-5 MINS DEPENDING ON OPERATOR. WITH OUR 3D DATUM FINDER, YOU CAN FIND CENTER IN LESS THAN 20-30 SECONDS!

EARLIER CUSTOMERS WERE OKAY WITH 50-100 MICRONS BUT NOW THEY ARE ASKING FOR TIGHTER TOLERANCES LESSER THAN 20 MICRONS, WHICH DIALS OR PAPER CAN NEVER HELP

YOU CAN GIVE OUR 3D DATUM FINDER TO EVEN A ZERO EXPERIENCE OPERATOR, NOT WORRY ABOUT HIM DAMAGING IT AND YET MEET THESE TIGHTER TOLERANCES CONSISTENTLY

EVEN IN RARE CHANCE OF PROBE GETTING DAMAGED, YOU NEED NOT WORRY AS WE SERVICE AND REPAIR AT A MINIMAL COST

YES, AND THIS WAY MANY OF OUR CUSTOMERS ARE USING OUR PROBES FOR 10+ YEARS AS WELL!

Watch now



Our Products:

Tool Setter



Characteristics

- One sec measurement
- Tool reference
- Tool Length/ Tool wear
- Tool breakage detection

Technical Specifications

Basic configuration:

- The standard: TS-50
- Magnetic base for horizontal usage
- A battery, model: CR2032

Application:

- Setting Tool and workpiece coordinate system and machining zero points manually before processing
- Detect and control the key dimensions, position coordinates, and their precision manually between two processes
- Detect the precision of the key dimensions, shapes, position after processing.

Applicable equipment and working condition:


- Suitable for various specifications of machine centers, CNC boring and milling machines, and drilling-tapping machine centers, etc
- Suitable for checking workpieces of all kinds of solid materials.

Technical Parameters:


- Stylus sensing direction: $\pm X, \pm Y, +Z$
- Stylus sensing over-travel: $X-Y \pm 15^\circ, Z +5 \text{ mm}$
- The trigger force in Z direction: 0.1 g
- Trigger force in X-Y surface(standard stylus) : 0.1g
- Unidirectional repeatability(2σ): $\leq 5 \mu\text{m}$
- Input voltage is $3 \pm 10\% \text{ V DC}$ and the output load current is 50 mA

Our Products:


Tool Setter




USING OUR MANUAL TOOL SETTER CAN MEASURE TOOL LENGTH IN SECONDS AND IN <5 MICRONS ACCURACY AND REPEATABILITY



EXAMPLE IF YOU ARE USING 20 TOOLS AND EACH IS TAKING YOU 1 MIN USING DIALS TODAY, WITH MTS YOU CAN DO THIS IN 5 SECONDS, SO SAVING YOU 18 MINS!



ARE YOU AWARE WRONG TOOL OR BROKEN TOOL IS A BIG REASON FOR REJECTION & REWORK IN CNC MACHINING?



THIS PROBLEM GETS BIGGER IF YOU HAPPEN TO WORK IN DIE AND MOLD WHERE COST OF REJECTION AND REWORK CAN WIPE OUR MARGINS!

Watch now



Our Products:

Auto Tool Setter



Characteristics

- Automatic Tool Length
- Automatic Tool Breakage detection
- Wrong Tool Detection
- Automatic Approximate Tool Diameter

Technical Specifications

Basic configuration:

- The standard: ATS
- 20mm Base plate for Bed clamping
- 10 meters 0.25sq 4 core wire cable with 3 meters Steel braided conduit.
- Aviation plug with IP67 rating for easy disassembly in case of damage (First in class)

Application:

- Setting Tool and workpiece coordinate system and machining zero points Automatically before processing
- Detect and control the key dimensions, position coordinates, and their precision Automatically between two processes
- Detect the precision of the key dimensions, shapes, position after processing.

Technical Parameters:

- Stylus sensing direction: $\pm X, \pm Y, +Z$
- Stylus sensing over-travel: $X-Y \pm 15^\circ, Z -5 \text{ mm}$
- The trigger force in Z direction: 0.1 g
- Trigger force in X-Y surface(standard stylus) : 0.1g
- Unidirectional repeatability(2σ): $\leq 10 \mu\text{m}$
- Input voltage is $24 \pm 10\% \text{ V DC}$ and the output Skip Voltage of 24V
- Controllers – Siemens, Fanuc, Mitsubishi

WITH OUR AUTO TOOL SETTER,
YOU CAN NOT ONLY MEASURE
TOOL LENGTH, BUT ALSO
DETECT WRONG TOOL AND
TAKE CORRECTIVE ACTION!



Watch now

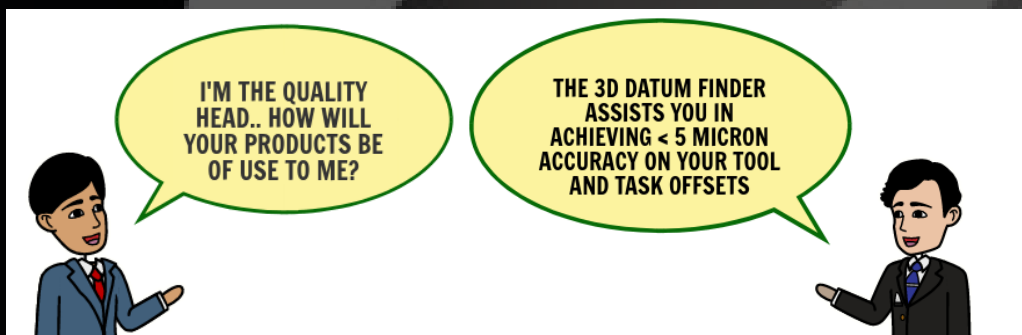
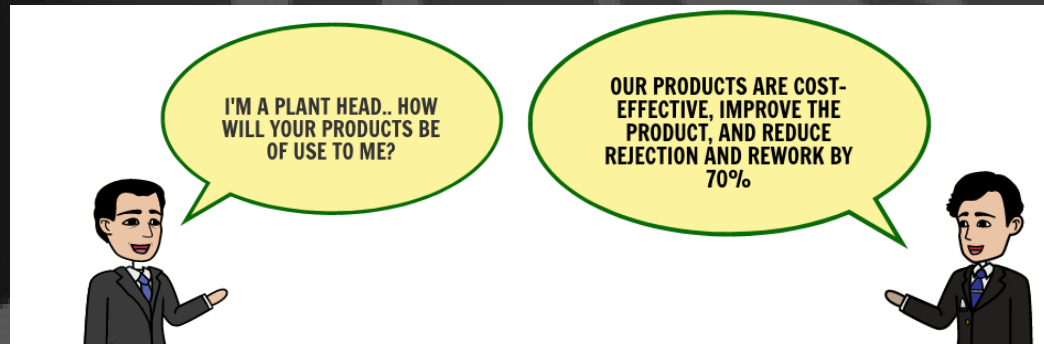


Who will be benefitted by our products?



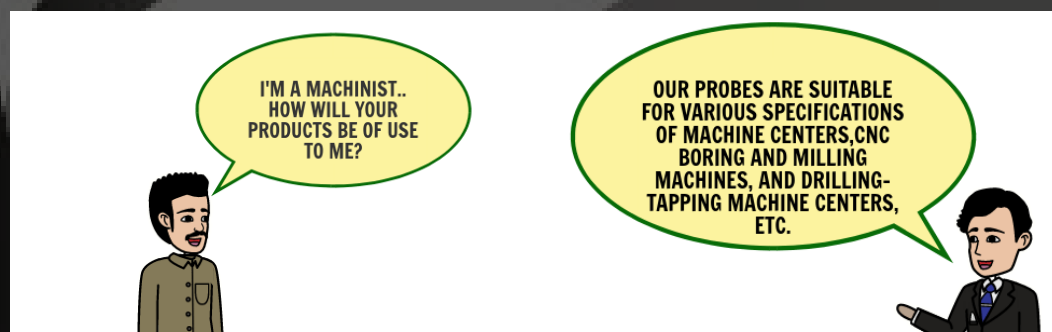
CNC Owner

Plant Head/COO

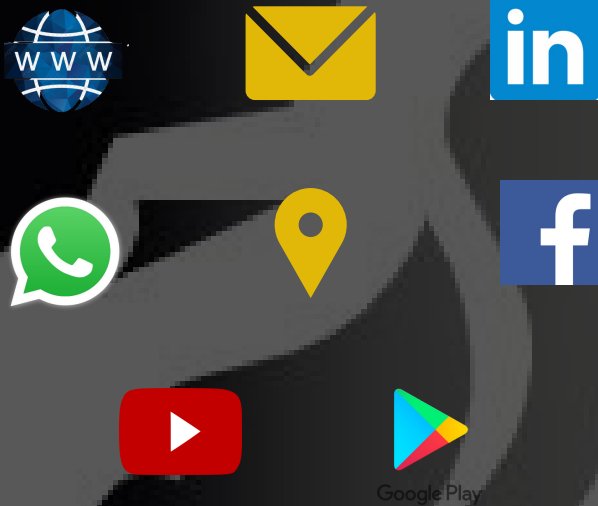


Quality Head

Machinist



We are just a click away



Our Clients

“

Manleo's Service is something that made me trust them, after seeing that probes bought 5 years ago from them that had been damaged were fixed in quick time frame and at minimal cost. This installed confidence to purchase additional probes from them

”

- Ramana C. V, Plant Head of VEM Technologies, Hyderabad

“

Manleo's probes are an excellent cost effective alternative, advantage is they can be used in multiple machines. In one month itself, ROI becomes evident with time saving achieved as a result of this product

”

- Business Entrepreneur of Leading Units in Peenya Industry, Bangalore

