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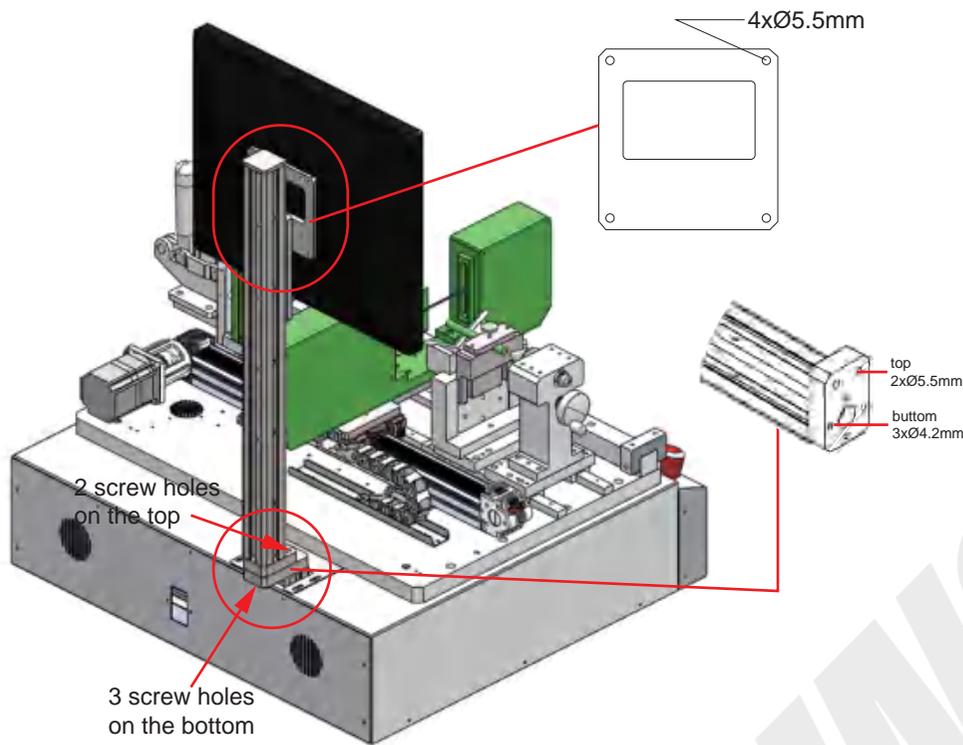


LDM-AT01 AUTOMATIC LASER SCAN MICROMETER OPERATION MUNUAL

PLEASE SCAN QR CODE TO
WATCH THE OPERATION
VIDEO OF PRODUCTS.



INSTALLATION



OPERATION



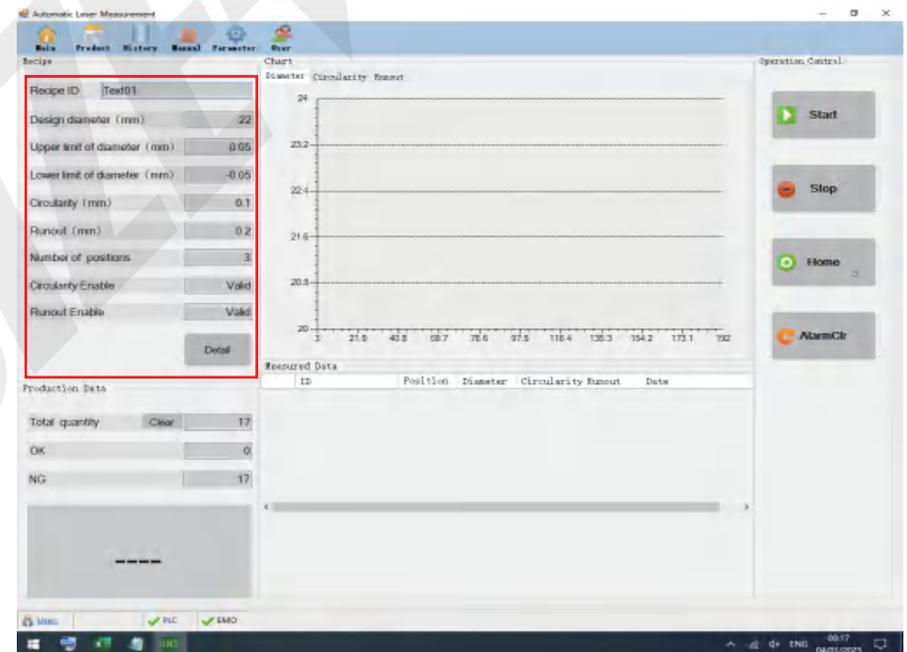
- Right power knob to switch on
- ▲ Turn off the computer and then power off, restart after each power failure requires an interval of 1 minute or more

Open the "Demo" form on your desktop and don't modify the first line, you can edit from the second line.

No.	A	B	C	D	E	F	G
	Position	Diameter spec	Diameter upper tolerance	Diameter lower tolerance	Roundness	Runout	
1	20	40	0.05	-0.05	0.02	0.01	
2	30	40	0.05	-0.05	0.02	0.01	
3	40	40	0.05	-0.05	0.02	0.01	

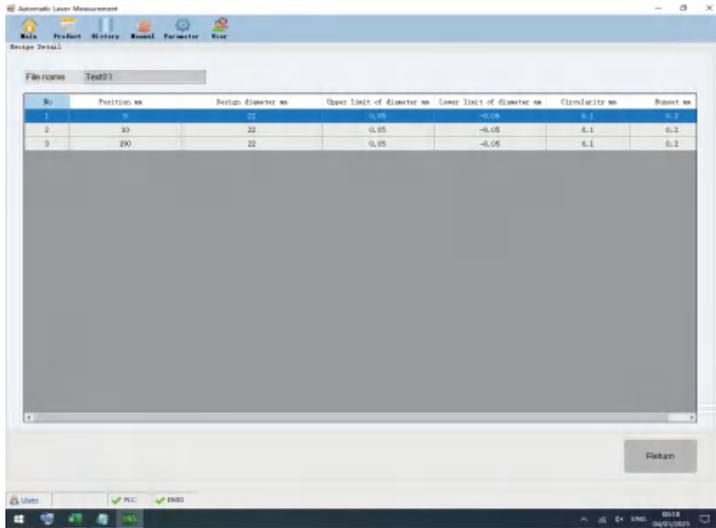
- First column(A)--How many positions do you need to measure on this workpiece.
- Second column(B)--Specific position at the time of measurement, distance from the "HOME" point in mm.
- Third column(C)--Diameter of the workpiece at the measuring point in mm.
- Fourth column(D)--Measurement upper limit in mm.
- Fifth column(E)--Measurement lower limit in mm.
- Sixth column(F)--Roundness of the workpiece at the point of measurement in mm.
- Seventh column(G)--Runout of the workpiece at the point of measurement in mm.

Double-click the desktop shortcut 

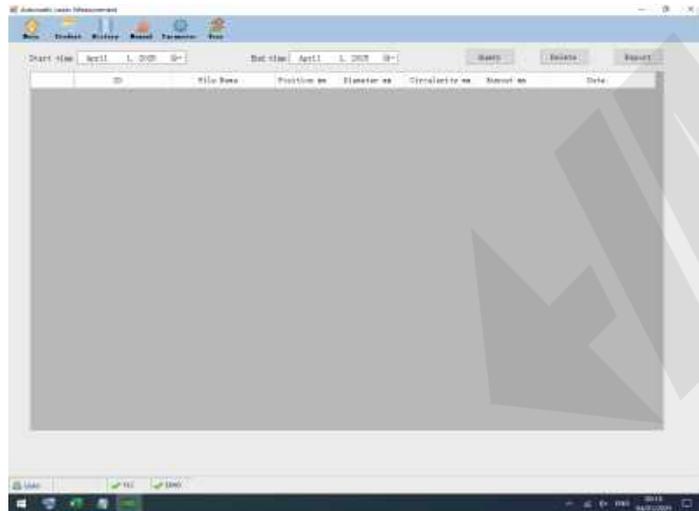


Double click "Recipe ID", select your edited excel, mounting the workpiece, then click the "HOME" button, finally click on "START" to start the test artefact. After finishing the test the data is displayed in the "Measured Data". At the "Production Data", it'll display NG/OK.

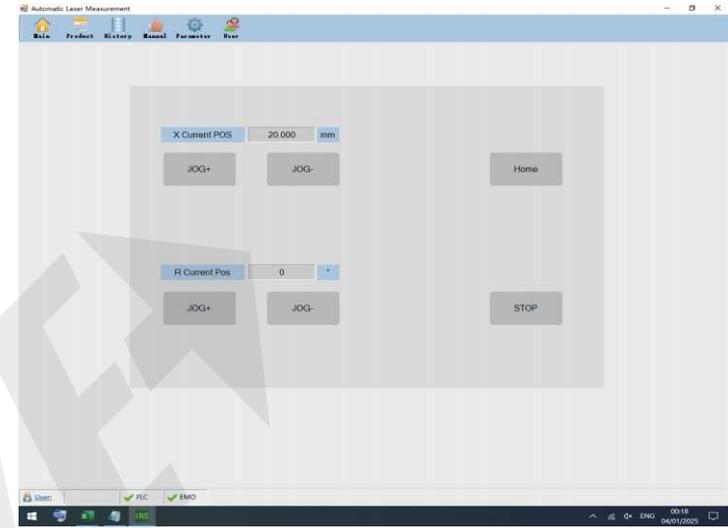
- "HOME"--each time you open the software, you need to click the "HOME"
- "START"--start testing
- "STOP"--stop testing
- "ALARMCLR"--after the instrument alarm, you need to clear the alarm before you can start clicking the "HOME".



In the interface “Product”, the edited content of the excel form can be queried.

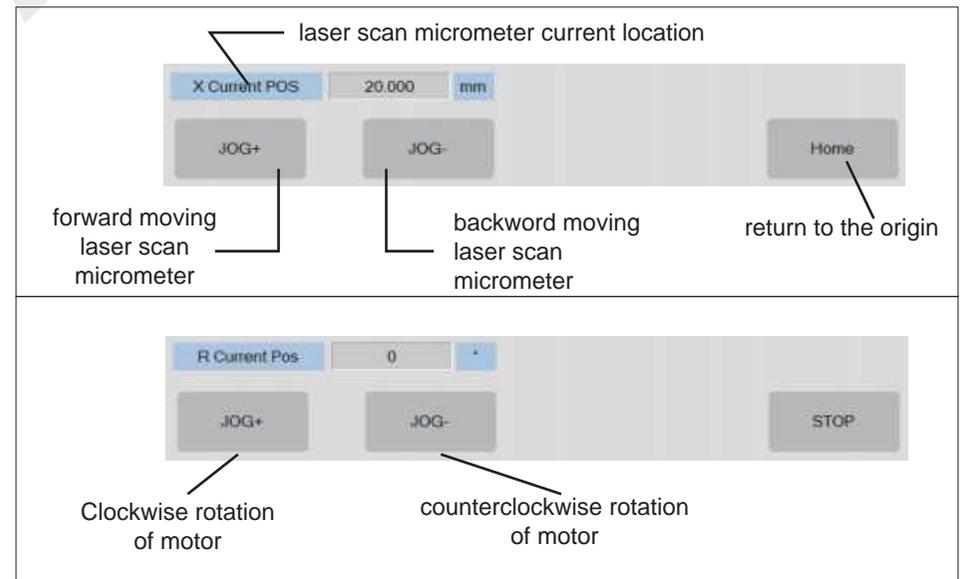


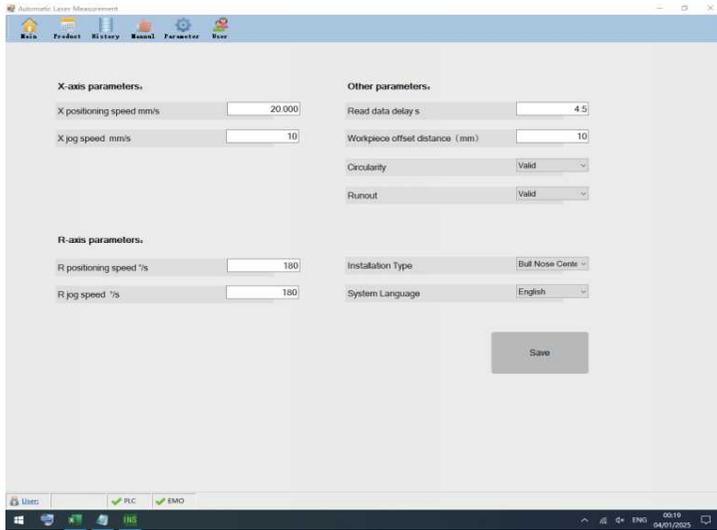
Display of saved measurement data in “History”.



“Manual” interface, operator for manual control of gauge movement and motor rotation
When moving the laser scan micrometer you need to keep left clicking, release the mouse, the product stops moving.

To rotate the workpiece manually, left-click once, to stop the rotation, left-click on ‘STOP’.





In the "Parameter" interface, you can modify various parameters



This screen is used to modify the movement speed of the laser scan micrometer.

X positioning speed mm/s: automatic control of the speed of the laser scan micrometer. 0~300mm/s adjustable.

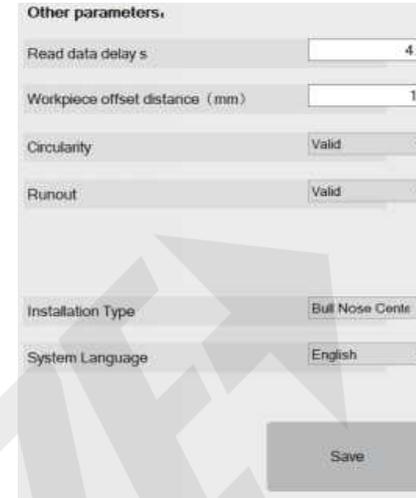
X jog speed mm/s: manual control of the speed of the laser scan micrometer. 0~100mm/s adjustable.



This screen is used to modify the rotation speed of the workpiece.

R positioning speed °/s: automatic control of the rotating workpiece speed. 0~360 °/s adjustable.

R jog speed °/s: manual control of the rotating workpiece speed. 0~360 °/s adjustable.



Other parameters:

Read data delay s: time required to measure a point, 1~100 adjustable. Normally set at 4.5s.

Workpiece offset distance(mm): distance of the top of the workpiece from the origin, 0~100 adjustable.

Circularity: Valid/Invalid, whether to measure roundness.

Runout: Valid/Invalid, whether to measure runout.

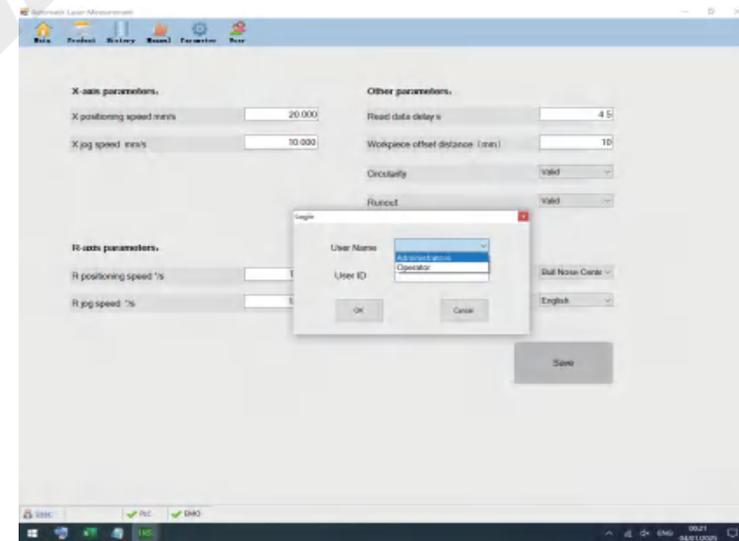
Installation Type: Bull Nose Center/V-Block
Select according to the actual clamping.

System Language: English/Chinese



▲ Roundness and runout cannot be measured when "Read data delay s" time is less than 3s

You need to save and restart the software after modifying the parameters



"User" interface: our engineers debugging software interface.

Installation See video for more information on changing the clamping method.