



**Лабораторне обладнання
Реалізація
Ремонт
Модернізація
Виготовлення обладнання за ТЗ замовника**



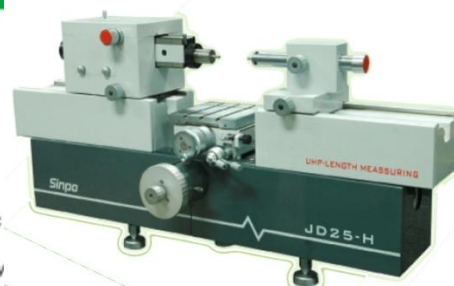
ТОВ ВТП "АСМА-ПРИЛАД"



JD25-H

Data processing universal length me

- High-quality cast iron base is taken by nature time process for a long time. Therefore it has good rigidity and stability;
- The complete measuring accessories with wide range can satisfy the different measuring requirements;
- It adopts Abbe principle and grating measuring system with high precision, which has high measuring precision;
- The imported grating system has high precision and reliable stability;
- The main measuring axis adopts optimum square design so as to ensure the moving stability;
- The function is powerful by connecting to computer, which can rectify the measuring error caused by indicating value and temperature variation. And it has the function for automatically find reversal point;



Usages

The universal metroscope is a metrological instrument for direct and differential measurements. It has high accuracy because it exactly adopts the Abbe comparator principle and uses a high-precision measuring system. This instrument is mainly used in metal-working industry, especially the inspecting departments of machine building, tool making, in the manufacture of gauges and measuring instruments.

Its measuring parts are as follows:

- a. Smooth cylindrical workpieces such as axis, hole, gauge and ring gauge.
- b. The pitch diameter of internal and external thread, thread gauge and thread ring gauge.
- c. Workpiece with parallel plane surface, such as measuring rod and lower grades gauge.

Specifications

1) Measuring range (mm):

- a. External dimension: Direct measurement : 0 ~ 100
Differential measurement: 0 ~ 670

b. Internal dimension:

With small measuring yokes (depth of penetration up to 12mm, maximum wall thickness 50mm) 10 ~ 400
With large measuring yokes (depth of penetration up to 50mm, maximum wall thickness 85mm) 30 ~ 370

2) Measurement with electric equipment:

- a. With electric measuring yoke: 1 ~ 60
- b. With universal measuring yoke: 14 ~ 112

3) Thread measurement:

a. Measuring the internal pitch diameter:

With small measuring yoke (thread small diameter 13~30)

With large measuring yoke [thread small diameter 31 ~ (70 - wall thickness) × 2],
Pitch of screws 0.5 ~ 6

b. Measuring the external pitch diameter: Maximum value 200, Pitch of screws 1 ~ 6

4) Reading mode and displaying value: Digital display, the value is 0.1 μm

5) Measuring force : 0 , 1.5 , 2.5N

6) Variability of the displaying value: a. External measurement $2\sigma \leq 0.3 \mu m$ b. Internal measurement $2\sigma \leq 0.5 \mu m$

7) Accuracy of the instrument (In case of temperature $(20 \pm 0.2)^\circ C$):

- a. External direct measurement superior to : 0.4 μm
- b. Internal measurement superior to : 0.8 μm

8) Universal worktable:

- a. Mounting area: Approximately $(160 \times 160) mm^2$
- b. Adjusting range of height: (0 ~ 100) mm
- c. Transverse travel : 25mm
- d. Tilting range around Y axis : $\pm 3^\circ$
- e. Worktable rotation : $\pm 4^\circ$
- f. Load capacity: 10kg

9) Combination dimension of internal diameter contact tip : $\phi 6H7$

10) Combination external dimension of measuring rod with contact tip: $\phi 6g6$

11) Instrument dimension (mm): L × W × H 960 × 390 × 450

12) Gross weight for the instrument: Main machine 125kg, Accessories 83kg

Key Accessories

Including standard fittings and selection parts. See packing list for particulars



Software functions

- Absolute measurement and comparison measurement for the external dimension
- Internal dimension measurement
- Measuring accuracy for the internal and external dimensions
- Measuring the internal and external threads
- Segment compensation for the grating value, linear compensation for the grating value, temperature compensation
- Input data and modify data by keyboard, delete coordinate point
- Open documents and save coordinate point
- Grating data imaging and finding reversal point

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