

PROFILE PROJECTOR DATA PROCESSOR



Vertical Bench Model Profile Projector

| SPECIFICATIONS | JP-250 | JP-300 | JP-400 |
|----------------------|---|---|--------------|
| SCREEN | 250MM | 300MM | 400MM |
| Standard | Opaque glass screen with 90° cross line fitted on rotary ring operated by knob | | |
| Optional | Electronic Protractor switchable degree / decimal L. C. 0.01 degree/1 minute | | |
| Optics Standard | 10x | 10x, 20, | 10x, 20x/25x |
| Optional | 20x, 50x, 100x | 50x, 100x | 50x, 100x |
| Mount | Screw Mount | Turret Mount | Turret Mount |
| Work stage | 150 x 150mm | 150 x 150mm | 200 x 200mm |
| Measuring range | 50 x 50mm | 50 x 50mm | 75 x 75mm |
| Linear Measurement | 0-25mm, LC-0.01mm | 0-50mm, Micrometer head with zero adjustment, LC-0.01mm | |
| Focusing | 100mm | 100mm | 100mm |
| Maximum Accuracy | | | |
| Contour | 0.05% | 0.05% | 0.05% |
| Surface | 0.75% | 0.75% | 0.75% |
| Illumination Contour | 24 V/150W halogen lamp with solid state light transformer for illumination adjustment | | |
| Surface | A set of 24V/150W Halogen lamp provides shadowless light on optical axis | | |
| Stand | Unique rigid pedestal system facilitates vibration free handling of specimen | | |
| Cooling system | FAN | | |

| OPTIONAL HARDWARE | OPTIONAL SOFTWARE |
|--|---|
| Workstage for DRO : System travel 100 x 100mm | Dia View : DRO system with L. C. 1 Micron/5Micron |
| 150 x 150mm / 200 x 100mm / 200 x 150mm / 200 x 200mm | DP 300 Microprocessor based geometrical read out system |
| | PC based geometrical readout system, mouse |
| Opto Edge sensor for accurate measurement | Drive with on screen graphical representation of part |
| Profile charts, Rotary table, V-Block, Centre holding device | Simple CAD interface |

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Digital readout is a multifunctional process system which is suitable for the measurement of digital linear scale and video measuring. It is widely used for Profile projector, measuring microscope, CCD measuring machine, other measuring instrument and so forth. In especially, it can be used in conjunction with profile projector, and can finish the measuring of the complicated geometry work-pieces. It includes coordinate skew, construct the original point of coordinate system, and through collecting the sampling points to measure work-pieces and so on.

Characteristics:

- Adopt the wide screen to display information, and display in sufficiency. It is more convenient for user's operator and learning;
- The counting accuracy of the sampling circuit of linear scale can reach to 24 bit, and the frequency of counting can reach to 1MHZ, it is correspond to the counting speed is almost 5 meters per second in 1 um distinguish rate.
- The ability of anti-jamming of power and signal all can reach to over 2500 voltage;
- The input voltage is from AC100V to 240V, and it all can work well;
- Small cubage, light weight, the outside dimension: 287mmx196mmx56mm, the weigh is about 1.5kg.

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The Main Function of Digital Read out as following:

- ◆ Measurement of point, line, circle, angle, distance, rectangle and screw thread, preset and construction. Sampling points maximum up to 50;
- ◆ Coordinate skew and movement ,it is more convenient that the operator can skew position of work-pieces for measuring, which can reduce adjust time obviously;
- ◆ Clearance function can delete list, adjustment, and all ;
- ◆ Obverse or Opposite direction counting function, according to the operator’s requirement;
- ◆ Half function, rapidly determine to display 1/2 value, and confirm midpoint of section;
- ◆ Permission function: Advanced setup can be done after right password input;
- ◆ Call function: input record ID to use existing element;
- ◆ Communication port of foot-switch or REINSHAW probe available;
- ◆ Printing: print graphic elements and 3-axis displaying value;
- ◆ RS232 output function: convey current position of linear scale to PC;
- ◆ USB output: through USB cable convey date to PC;
- ◆ Multi-display, separately display polar coordinates and Cartesian coordinates, and can display millimeter and inch , and can shift it easily;
- ◆ Linear compensation and section compensation in available;
- ◆ Z-axis can connect linear scale and rotate encoder;
- ◆ Save 100 permanent graphic elements.

| Specification: | |
|-------------------------|---|
| Weight | About 1.5 KG |
| Dimension | 196mm x 287mm x 56mm |
| The range of power | AC 100V □240V |
| The maximum power | 15 W |
| Work temperature | 0 ° C□40 ° C |
| Storage temperature | -10 ° C□60 ° C |
| Relative humidity | □ 90% |
| Number of coordinate | Two/ Three axis |
| Operation key | The sealed silicone touch-type keyboard |
| Linear scale port | Model DB-9 home-based port |
| Linear scale signal | TTL square-wave of two routes difference 90 °phase angle, the drive capability is more than 10mA. |
| Linear scale resolution | It can be set(the resolution including 0.1um, 0.2um, 0.5um,1um, 2um and 5um etc.) |
| RS232 | Model DB-9 home-based port <-5V('1'),> +5V('0') |
| Footswitch interface | short circuit contact model |
| Mini-printer | optional |

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