

CHOTEN

JT12A-B

Screen diameter Ø 300

Digital

Display Profile

Projector



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JT12A-C/JT12A-B

★ **Uses:** Optical Projector is an efficient optical measuring instrument, which is easy operation and suitable for measuring different shapes of work-pieces with complicated profiles and surfaces. Such as punched pieces, gears, cams, thread cutters, templates etc by means of profile compare measure. Therefore, this instrument is widely used in different machine and instrument manufacturing industries, and it is indispensable for inspection departments and workshops of relative factories.

★ Specification:

- * Screen diameter $\Phi 300$
- * Rotating range 0-360°
- * Rotating indicator scale 1'
- * Work table size 340 x 152 mm
- * X coordinate 150 mm
- * Y coordinate 50 mm
- * Z coordinate 80 mm (focusing travel)
- * X,Y coordinate accuracy $(4+40L) \mu m$
L : Measuring Length, unit: M
- * Objective:

Magnification	10x	20x	50x	100x
View-field on object	$\Phi 30$ mm	$\Phi 15$ mm	$\Phi 6$ mm	$\Phi 3$ mm
Working distance	75 mm	70 mm	27 mm	26 mm

- * Illumination source:
Contour illumination 12V 100W
Surface illumination 24V 150W
- * Dimension:
JT12A-Z 600 x 700 x 1150 mm
JT12A-C 450 x 700 x 1150 mm
- * Weight 135 Kg

★ Main accessories:

- 10x objective
- 10x semi-transmitted mirror
- 50 mm standard glass scale
- 360 mm glass scale
- Magnifier
- Presser (4 pcs)

★ Option accessories:

- 20x objective 20x semi-transmitted mirror

- 50x objective 50x semi-transmitted mirror
- 100x objective
- CAT2 software of JT12A-C

★ JT12A-Z Multiple functions data processors:

- * Determining straight line and circle with multiple dots gathering
- * Determining different geometrical elements with the way of association
- * Possessing the function of rotating and paralleling coordinate
- * Possessing the function of transmitting the polar and rectangular coordinates
- * Placing in advance and installing of different geometrical elements
- * Storing and transferring of different geometrical elements
- * Possessing the function of user coded program
- * Possessing the function of memory when power cut
- * Possessing the function of output RS232
- * Setting up Z coordinate to the length of sensor and angle value of code machine
- * Possessing the function of grating sensor linear correction and regional linear correction

★ JT12A - C CAT2 software functions:

- Combination operation:
 - * Combination between dot and dot calculates their distance and mid-point
 - * Combination between dot and line calculates their distance
 - * Combination between straight line and straight line calculates the angle and coordination of intersection point
 - * Multiple-dot calculates circle
 - * Combination between straight line and circle calculates corresponding coordinate point
 - * Combination between circle and circle calculates corresponding coordinate point
- Shape and position tolerance
- * Thread measurement
- * Coaxial deviation measurement
- * Line deviation measurement
- * Outline deviation measurement
- * Circle deviation measurement (including circle deviation of right angle coordinate and circle deviation of polar coordinate)
- * Symmetrical deviation measurement

CHOTEN

Profile Projector



JT24 Ø 300



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JT24

Φ300 Digital Measuring Projector

- With strong universal performances and beautiful appearance and can be operated conveniently.
- The up and down worktable can be driven by imported V-style linear path easily and comfortably.
- The illumination is divided into high and low level and suits various illumination requirements of workpieces and material.
- The projected image is clear and shapely.
- The reflection illumination adopts fiber transmitting and with the characteristics of small size and high intensity and can be operated easily.
- With high precision and stability.
- The worktable is made from aluminium-alloy material and with light weight.
- The counter adopts nixietube to display length and angle.

Usage

This instrument can measure effectively surface and profile of various workpieces with complicated profiles and shapes, such as templates, punched pieces, gears, threads, formed milling cutters etc and all kinds of cutters, tools and parts. It is widely used in measuring room and workshops for the industries of machinery-making, instruments, watches etc.

Specification

1. Screen

- (1)Screen diameter(mm): Φ 300
- (2)Rotating range: $0^{\circ} \sim 360^{\circ}$
- (3)Rotating indicator scale:1'
- (4)Rotating angle accuracy:4'

2. Worktable

Size of work table(mm):326X150

X coordinate travel(mm):0~200 Indicator scale:0.001mm

Y coordinate travel(mm):0~80 Indicator scale:0.001mm

Z coordinate travel(mm):0~100 (Focusing travel)

Indicating accuracy of X,Y coordinates $(3+L/75)\mu\text{m}$,

L: Measuring length, Unit: mm

3. Objective

Magnification	10X(Standard)	20X(Optional)	50X(Optional)	100X(Optional)
View-Field on Object	Φ 35mm	Φ 17.5mm	Φ 7mm	Φ 3.5mm
Working Distance	88.376mm	81.375mm	54mm	44.9mm
Magnification Rate Error	0.08%			

4. Illumination

- The transmission illumination:24V,150W Tungsten halogen lamp
- The reflection illumination: 24V,150W Tungsten halogen lamp

5. Dimension(length*width*height) (mm):746*443*1020

6. Weight: about 150kg

Linear Scale Grating Transducer and Digital System



Linear Scale Grating Transducer Features :

- Widely applied in complementation of milling machine, lathe, grinding machine, boring machine, electricity-operated machine tool and other equipment as well as in renovation of old machine tools
- Avoiding visual errors of the operators, reducing labor intensity, reducing the rejection ratio and improving efficiency
- Simple operation without special training
- High-level resistance to interference, stable and reliable
- Convenient installation and maintenance, with strong technical power

Code	Range	Reading
JCWE5	50-200 mm	0.005 mm
JCWE5	300-500 mm	0.005 mm
JCWE5	600-800 mm	0.005 mm
JCWE5	850 mm	0.005 mm
JCWE5	900 mm	0.005 mm
JCWE5	950 mm	0.005 mm
JCWE5	1000 mm	0.005 mm
JCWE1	50-200 mm	0.001 mm
JCWE1	300-500 mm	0.001 mm
JCWE1	600 mm	0.001 mm
JCWE1	700 mm	0.001 mm
JCWE1	750 mm	0.001 mm
JCWE1	800 mm	0.001 mm
JCWE1	850 mm	0.001 mm
JCWE1	900 mm	0.001 mm
JCWE1	950 mm	0.001 mm
JCWE1	1000 mm	0.001 mm

* Available to Length 2800 mm

Digital Counter Function :

- Water Shrinkage Setting Function
- Calculators Operation Function
- Hollows Processing Function
- Inclined Plane Processing Function
- Circumferential Puncturing Function
- Automatic Middle Division Function
- Diagonal Puncturing Function
- Team Zero Position Memory Function
- British Measurement/Metric System Conversion Function
- Mechanical Origin Setting and Reversion Function
- Minimum Reading Conversion Function
- Arithmetic Data Selective Input Function
- Machine Tool Error Correction Function

Specification :

- WE680 (TWO Axis)
- WE6800 (THREE Axis)
- EDM/WE680 (THREE Axis)

Calibration of Scales, Ruler & Measuring Tapes



Main Features

- Calibration Unit for checking scales, rulers and measuring tapes.
- Stable measuring stand and very practical design using digital.
- Incremental measuring system with 0.005 resolution and reference.
- Easy operation by using microscope and digital display units.
- Standard measuring range Size : 1000, 1500, 2000 mm.