

KASON-CPJ3020 Vertical Profile Projector



I. Usage

KASON-CPJ3020 series is a high cost performance, high efficiency, universal type vertical profile projector. It is mainly used for the measurement of the mechanical parts of the length, angle, contour and surface shape, can inspect all kinds of surface and outline of complicated work-pieces, cam, screw thread, gear, perform milling cutter and so on, widely used in meter, electron, aerospace machinery, light industry, college, research institute and measurement-inspecting department.

II. Features

It has good quality optical system, imaging lens clear and accurate magnification. In the transmission of the illumination, the profile measurement error is less than 0.06%. Coordinate measurement deviation is $E_x, y \leq (3.0+L/200)\mu\text{m}$, L be regarded as the length of measured parts (mm). Instrument equipped with a dedicated mini-printer and foot switch, DC-3000 Digital Readout, which makes display and measuring very handy.

P. S The Digital Readout has a function of interchange between mm and inches

III. Specification

Code	04175 ...	101	102	103	
Model		CPJ3015	CPJ3020	CPJ3025	
Table	Metal Table Size (mm)	340 x152	404 x 228	450 x 280	
	Glass Table Size (mm)	196 x 96	260 x 160	306 x 196	
	X-axis Stroke (mm)	150	200	250	
	Y-axis Stroke (mm)	50	100	150	
	Z-axis Stroke (mm)	90 for focus			
Measuring Accuracy*		Ex, y $\leq (3.0+L/200)\mu\text{m}$			
Resolution(X,Y)		0.5 pm			
Projector Screen	Screen Size (mm)	$\varnothing 312$ Used range $>\varnothing 300$ (with the meter line)			
	Screen Rotary Range	0°~360°			
	Rotary Angle Resolution	1' or 0.01°			
	Projection Accuracy*	Contour: $\leq\pm 0.06\%$, Surface: $\leq\pm 0.06\%$			
Lens	Magnification	10X (standard)	20X (option)	50X (option)	100X (option)
	Object View	$\varnothing 30$	$\varnothing 15$	$\varnothing 6$	$\varnothing 3$
	Working Distance	77.7mm	44.3mm	38.4mm	25.3mm
	Max. work piece height	80mm	80mm	80mm	80mm
DRO	DC-3000 Digital Readout, appearing in English, can be used to gather dimension data and measure point ,line, circle, angle and distance, etc.				
Cooling	By fans				
Illumination	24V/150W halogen transmitted illumination, 21V/150W halogen reflecting illumination				
Power	110V/220V(AC);50/60HZ; Total Power Consumption 400W				
Dimension (L*W*H, mm)		770*550*1100	780*780*1100	810*780*1120	
Weight (kg)		180	190	200	
Option	Mini-printer, Edge detector, Metrology software and so on, please refer to 'Appendix' for details.				

* All data is tested according to standard JJF1093-2002.

L is measured length (units: mm)

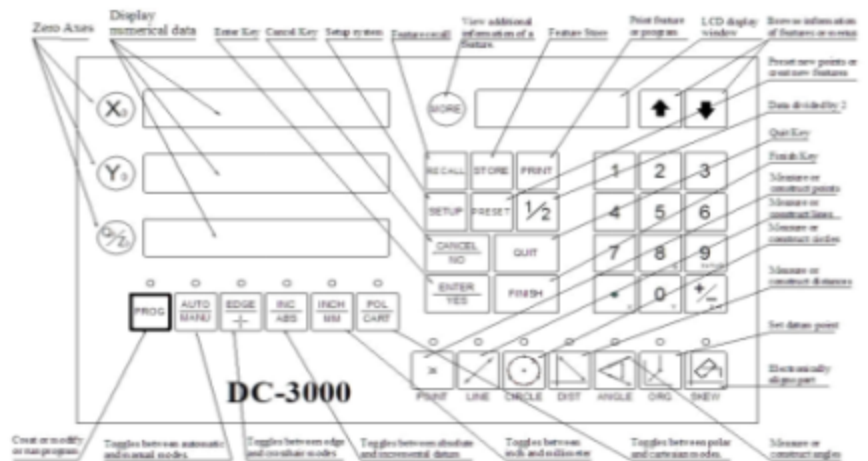
IV. Structure

Machine View



V. Part of the Digital Readout DC-3000

- Two-dimensional measurement: measure width, length, both sides of the angle, the cone angle, the diameter of the cylinder, chamfering, straightness, roundness, cylindricity, perpendicularity, parallelism, etc.
- User program: sequences of front panel key-presses can be stored as programs and replayed at a later date. This capability is especially useful when a series of identical parts must be measured.
- Communication: with RS232 interface and printer interface, can export measurement data with a mini printer or a computer equipped with metrology software.
- Measuring Unit: support mm or inch
- Language: Chinese, English, Portuguese.





VI. Appendix


Standard Accessories

No.	Name	Picture	Description
1	Foot Switch		Help to make better point capture
2	Dust Cover		Protect instrument from dust
3	User Files		Equipment Manual (English version), Certificates, etc.
4	Cable		Power cable
5	Spare Halogen Lamp		
6	Spare Fuse		
7	Carry Handle		

Option Accessories (For Profile Projector)

Code	Name	Picture	Description
8005206	Table		Model: V300 Dimension(LWH): 50*67*55 cm Placement for profile projector

8004401	PC		<p>Model: Lenovo™</p> <p>a. CPU: Intel ≥2.80GHz Dualcore</p> <p>b. ROM: ≥4 GB (DDR31600MHz)</p> <p>c. Hard drive/Flash drive: Industrial grade hard drive(500GB)</p> <p>d. Graphic card and Display: chipset integrated 2D/3D graphics display, provide an on-board VGA interface,19"LCD monitor</p> <p>e. Network: 865GV/Gon-board 10/100/1000 Base-T interface (adopt Intel82540EM network chip)</p> <p>f. USB interface :Two sets USB interface, support USB2.0, support USB boot</p> <p>g. Other I/O interface: Two sets RS-232 serial interface, one set parallel interface, four sets DE interface, support DMA33,66,100, one set floppy disk controller port, support two floppy disk controller, on-board support PS/2 mouse/keyboard interface,13 trough PICMG PCI/ISA baseboard IM247</p> <p>h. Operation System: Official English ver. Windows 10 OS Pro. P.S. Work with metrology software</p>
8005101	20X objective		Objectives for vertical type only
8005102	50X objective		Objectives for vertical type only
8005103	100X objective		Objectives for vertical type only

8004704	DP-300 DRO		Optional Digital Readout Bigger LCD Screen, external LED Screen
8004201	Glass Ruler		Mechanical calibration 200mm, 1 um accuracy P.S. Suitable for HST-3015, HST-3020
8004202			Mechanical calibration 300mm, 1 um accuracy P.S. Suitable for HST-3025
8005201	Mini Printer		To print measurement data easily, installed inside Note: should be used with DP-300 DRO
8005301	R Chart		Model: RC300, Ø300mm Angle measurement assistance
8004411	Rotary Table		Glass Dia. 50 mm P.S. Suitable for HST-3015
8004412			Glass Dia. 100mm P.S. Suitable for HST-3020
8004413			Glass Size: Ø240mm With fine turning P.S. Only available on HST-3025
8005202	Edge Detector		Better edge detection
8005300	Metrology Software		Model: VMM3D™ For measurement when connected to PC P.S. Suggest get PC

FOCUS IN MATERIAL TEST

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