# DTP SERIES

# **Roundness Measuring Instrument**

Accuracy up to  $\pm 0.0125 \,\mu$  m Precision circular grating Air bearing spindle

Durable precision and never wear 14400point/R Small force measurement and high accuracy















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## **Measurement function**

It can measure roundness, concentricity, coaxiality, flatness, parallelism, perpendicularity, eccentricity and runout of various regular and irregular ring-shaped workpieces.

Analysis function: surface waviness (Wc, Wp, Wv, Wt, Wa, Wq), spectrum analysis, wave height analysis

### Data analysis and processing

Spectrum analysis: analyze the amplitude of different frequency components Removal of abnormal data: remove abnormal data manually or automatically, such as burrs, holes and bulges

File management: automatic saving of survey data, SQL database Result printing: it can be used for regular printing or exported to PDF file

l	tem/Model	DTP-1000	DTP-3000	DTP-5000		
Measuring range	Max measuring diameter	ф300mm	ф400mm	φ700mm		
	Max measuring height	350mm	500mm	500mm		
	Max depth	Use standard probe: 100mm ; The maximum measurable diameter of non-standard support is 300mm				
	Max bearing capacity	30Kg	50Kg	100kg		
Air bearing spindle	Radial error of spindle	± (0.025+0.0005H) 🔆	± (0.025+0.0005H)	± (0.035+0.0005H)		
	Axial error of spindle	± (0.025+0.0006X) 🔆	± (0.025+0.0006X)	± (0.03+0.0006X)		
Workbench	Table diameter	ф150mm	ф200mm	ф320mm		
	Adjustment range	调偏心±3mm;调水平±1°				
	Turning diameter	ф320mm	ф420mm	650mm		
Sensor	Range	500µm (半径差)				
	Probe shape	φ2mm宝石球测头(可选购φ1mm、φ0.5mm测针)				
Horizontal arm	Horizontal stroke	150mm	180mm	ф650mm		
	Moving speed	0.5-6mm/s或手动				

### Roundness filtering section

1-500、1-150 1-50、1-15、15-500

### Waviness filter band

3-16、17-100

### Roundness evaluation method

minimum area method, least squares method, minimum external circle method, maximum internal tangent circle method

### **Parameters**

\* H: Measure the height from the table, X: Measure the radius