

DTP-2000 Series Bearing Roundness Measuring Instrument

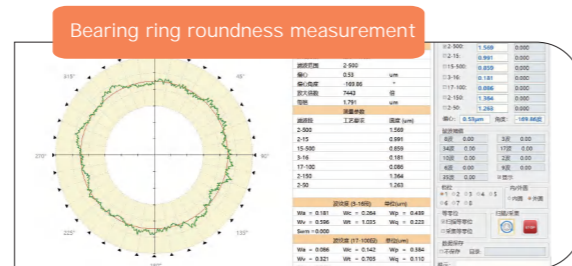
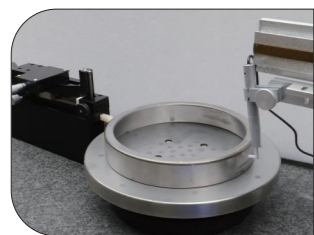
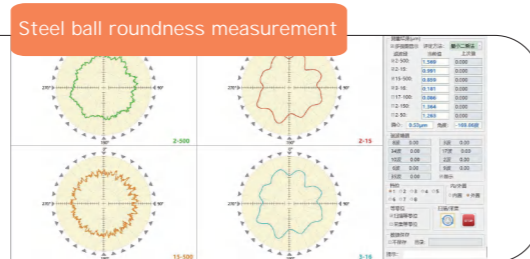
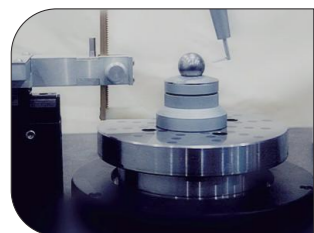
Accuracy $\pm 0.0125\mu\text{m}$

Precision circular grating

Long-lasting precision, never wear out

Fast measurement, cycle time 7 Parts/min

Circle collection of 1024 points



Measuring Function

It can quickly measure the roundness, corrugation, harmonic amplitude, coaxiality, concentricity, spectrum analysis, wave height, wave width analysis, etc. of inner and outer rings of bearings.

Data analysis and processing

Spectrum analysis: analysis of the amplitude of different frequency components

File management: automatic saving of measurement data, It also can be deleted

Printing of results: General printing or export to PDF file

Roundness evaluation

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

Roundness filter band

2-500、2-15、15-500、
2-50、2-150、1-500

Waviness

3-16
17-100

Technical Parameters

Item	Product Model		
	DTP-2000C	DTP-2000D	DTP-2600
Main axis accuracy	$\pm 0.025\mu\text{m}+3H/10000\mu\text{m}$ ※	$\pm 0.0125\mu\text{m}+3H/10000\mu\text{m}$	$\pm 0.0125\mu\text{m}+3H/10000\mu\text{m}$
System accuracy	$\leq 0.06\mu\text{m}$	$\leq 0.03\mu\text{m}$	$\leq 0.06\mu\text{m}$
Worktable	Table diameter	$\phi 140\text{mm}$	$\phi 260\text{mm}$
	Turning diameter	$\phi 200\text{mm}$	$\phi 300\text{mm}$
	Load capacity	15kg	30Kg
Sensor	Range	30 μm (radius differential)	
	Resolution	0.001 μm	
	Stylus form	$\phi 2\text{mm}$ Nylon probe	
Data processing	Spectrum analysis	Analyze the amplitude of different frequency components	
	File management	Measurement data is automatically saved and can be deleted	
	Result printout	Single or multiple measurement results can be printed on the same page	

The above parameters are the default configuration, if you need other configurations can be selected according to the order

※ H: measuring height from table