

Z測定範囲:58mm  
Z分解能:0.05 $\mu$ m  
X軸、Z軸ともデジタル検出器採用  
デジタル円弧補正

Z measuring range: 58mm  
Z Resolution: 0.05 $\mu$ m  
Digital pick up operation in both the X and Z axis.  
Digital circular correction

#### Scalar quantity

Scalar quantitative analysis such as point, line and circle element are able to be executed from plural profile data.

#### Ball screw analysis

Form analysis function for ball screw grooves.

#### Non-spherical lens deviation analysis\*

Enable to compare the design data with measured data.  
Deviation can be expressed with profile and values.

#### Master comparison analysis\*

Capable to analyse the gap, thickness, ware, modification and processing accuracy by deviation, formity, etc from 2 kinds of data (master data or designed data and measured data)

#### Correction

To measure the prism type calibration specimen, it is able to execute the correction of both circular and ZX squareness  
Also it is able to determine the stylus radius factor of the form.



EF 3000

## Specifications

Model	EF150E	EF150ED	EF3000
Accuracy	X:±(1+0.02L) $\mu$ m L=Measuring Length(mm) Z:±0.25%/Full Scale		Z:±(1+ 0.04H ) $\mu$ m H=Z Displacement(mm) X:±(1+0.02L) $\mu$ m L=Measuring Length(mm)
Resolution	X:0.1 $\mu$ m		0.05 $\mu$ m For Z and X Axis Data Sampling:Max 250,000 Points, Min 0.5 $\mu$ m Pitch
Measuring Range	Z:50mm X:100mm		Z:58mm X:100mm
Display Magnification	0.01~10,000 For Both Z And X Axis		
Analysis Items/ Data Correct Functions	Element Function : Point, Line, Circle, Peak, Valley, Cross Point, Contact Point/ Scalar Analysis : Coordination Distance, Distance, Cross Angle/ Ball Screw Analysis , *Aspheric Form Analysis, *Master Comparison Analysis Vibrator, Overload Stop, Macro Function, Stylus Curvature Radius Correction, Linkage Function, Best Fit Function, Free Layout Edit		
Drive Speed	0.02,0.05,0.1,0.2,0.5,1,2mm/s High Speed 10mm/sec and Manual.		
Straightness	1 $\mu$ m/100mm		
Traceable Angle	Ascend:77°(Smooth Surface) Descend:87°		
Pick-up	Standard Stylus:R25 $\mu$ m Measuring Force:10~30mN (Adjustable)		
	High Magnification (Option)	Measuring Force:4mN, Stylus:R25/R10 $\mu$ m, Measuring Range:1.2mm	—
Pick-up Up/Down	Manual Up/Down	Motorized Up/Down	Motorized Up/Down
Size/Weight	W1500xD850mm Measuring Unit:Approx 80kg Amplifier:Approx 30kg		
Power Supply	AC90~120V 550VA(Including 300VA for PC & Printer) 50/60Hz		

\*Option in case of EF150E/150ED