

## MOBILE ROUGHNESS MEASURING INSTRUMENT

On the premise of retaining the complete measurement function, we have upgraded the roughness profiler to be "lightweight + movable", with newer equipment and performance to meet various measurement needs to make it more lightweight and practical.



### MEASUREMENT FUNCTIONS

#### ● GD&T MEASUREMENT

Dimension: including horizontal distance, vertical distance, linear distance, radius, diameter

Angle: including horizontal angle, vertical angle, angle

Position tolerance: including parallelism, perpendicularity

Shape tolerance: including straightness, convexity, arc contour

Auxiliary generation: including auxiliary point, auxiliary line, auxiliary circle

#### ● ROUGHNESS MEASUREMENT

Roughness analysis: Ra, Rq, Rz (Ry), Rz (DIN), R3z, Rz (jis), Rp, Rv, Rt, etc.

Waviness analysis: wt, wa, wp, ww, wq, etc

### TECHNICAL PARAMETERS

	Item	Parameters
Measuring range	Z axis(Column)	200mm
	Z1 (sensor)	60mm
Accuracy	Z axis measurement tolerance	$\pm(2.5+0.02L)\mu\text{m}$ ※
	Z1 axis measurement accuracy	$\pm(3+0.02H)\mu\text{m}$ ※
	Roughness measurement stability	$\leq\pm 7\%$
	Roughness measurement repeatability	$\pm 3\%$
	Linear accuracy	$\leq\pm 0.05\%F.S$
	Curvature error (R:mm)	$\pm (3+R/12) \mu\text{m}$
	Curvature value repeatability	$\pm 3\mu\text{m}$
	Angular value error	$\pm 2.5'$
	Angular value repeatability	$\pm 1\%$
	Evaluation length	$\lambda \times 3, 4, 5, 6, 7$
	Cutoff wavelength	0.025、0.08、0.25、0.8、2.5、8mm
	Climbing angle	Upward 77°, downward 88°

※ L: measuring distance  
H: measuring height