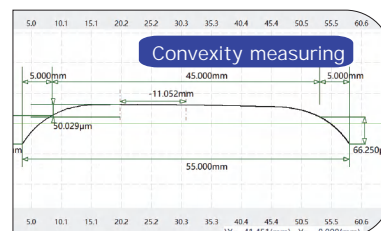
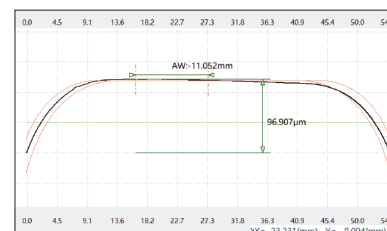
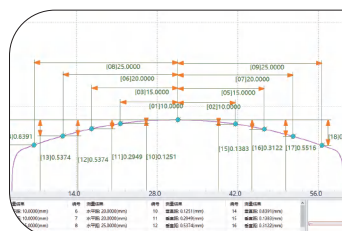
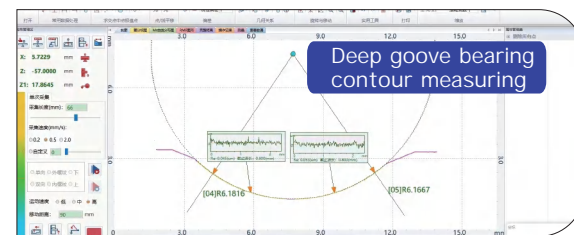
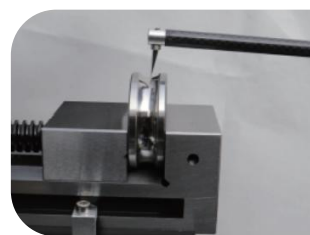
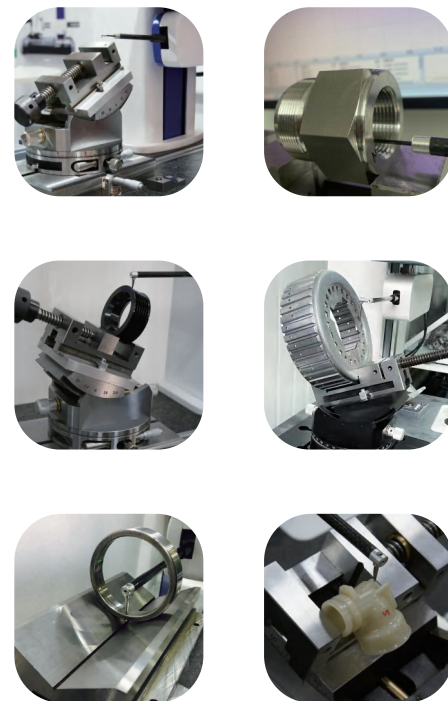


MMD-HPG Series Contour & Roughness Integrated Machine

- 60mm big range sensor
- No need replace sensor
- Contour & roughness in one system
- Measuring force gentle with high accuracy
- Software is calibrated automatically
- High resolution 0.001 μ m
- Sampling distance 0.05 μ m
- Perfect data repeatability



Function Introduction

Contour measurement

Point: point, midpoint, intersection, highest point, lowest point
 Line: straight line, tangent line, perpendicular line, parallel line, bisector
 Circle: Partial circle, ellipse, tangent circle
 Angle: angle, horizontal angle, vertical angle, angle, bisecting angle
 Position tolerance: straightness, convexity, arc contour, perpendicularity, parallelism
 Auxiliary generation: including auxiliary points, auxiliary lines, auxiliary circles

Roughness

Ra, Rq, Rz (Ry), Rz (DIN), R3z, Rz (jis), Rp, Rv, Rt, Rsk, Rsm
 Rc, Rpm, Rku, Rdq, Roc, Mr1, Mr2, Rpk, Rvk, Rk, Rdc, A1, A2, Rx, AR, Rcp, Rmax, Rz-ISO

Waviness

w_t, w_a, w_p, w_v, w_q, w_c, w_{ku}, w_{sk}, w_x, w_z, w_{sm}, w_{dc}, w_{te}, w_{mr}, A_w, c (w_{mr}) w_{mr} (c), w_{dq}

Original contour

Pt, Pa, Pp, Pv, Pq, Pc, Pku, Psk, Pdq, Psm, Pdc, Pmr, Pz, Pmr

Technical Parameters

Item/ model		MMD-HPG100	MMD-HPG150	MMD-HPG200
Measure range	X axis (horizontal)	100mm	150mm	200mm
	Z1 axis, sensor	±20mm	±25mm	±30mm
	Z axis (column)	450mm	500mm	500mm
Contour / Profile Specs	Linear accuracy X	± (0.8+0.02L) μ m *		
	Linear accuracy Z1	± (0.8+0.05H) μ m *		
	Angle	≤±1'		
	Arc	≤±(1.2+R/12) μ m R 0.5 mm~10mm *		
Roughness Specs	Straightness	0.6 μ m/100mm	0.6 μ m/100mm 1.0/150mm	0.6 μ m/100mm 1.2/200mm
	Indicating error	±(5nm + 0.05A)		
	Residual noise	≤0.005 μ m		
	Indication repeatability	3%		
	Cutoff wave length	0.025, 0.08, 0.25, 0.8, 2.5, 8mm		
Evaluated length	λ x2, 3, 4, 5, 6, 7, 8			

All the above data are default configuration. Optional configuration is available as request.

* L: measuring range, H: measuring height, R: curvature radius