

## FULL AUTOMATIC LONG-AXIS PROFILER



### TECHNICAL PARAMETERS

	Item	Parameters
Measuring range	X axis max measuring range	1550mm
	Z1(sensor)	20mm
	Z column travel distance	750mm
Measuring accuracy	X axis measurement error	$\pm(2.5+0.002L)\mu\text{m}$ ※
	Z1 axis indication accuracy	$\pm(0.5+0.02H)\mu\text{m}$ ※
x axis	Straightness	$0.8\mu\text{m} / 100\text{mm}$ $4\mu\text{m}/\text{full-length}$
	Resolution	$0.5\mu\text{m}$
Z1 sensor	Type	grating sensor
	Resolution	$0.05\mu\text{m}$
Worktable	Y direction adjustment	$\pm 10\text{mm}$
	Pendulum adjustment	$\pm 6^\circ$
	V-iron lifting range	200mm
	Load capacity	750KG
	Climbing angle	Upward $82^\circ$ , downward $89^\circ$

※L: measuring distance  
H: measuring height

## LENGTH MEASURING INSTRUMENT

Length measuring machine is a kind of general length measuring instrument. It not only can inspect the thread ,glossy gauge, measuring block, OD micrometer, needle gauge, indicator meter and other kinds of gauges, but also can measure the gear, spline, calibration bar and other precision workpiece, so it is also called "Universal Length Measuring Machine". It is widely used in machinery, tools, gauges and instruments manufacturing enterprises such as measurement lab and professional measurement and identification departments at all levels



### TECHNICAL PARAMETERS

Item	Measuring range	OD range:200–5000mm
		ID range:0–5000mm
Main machine	Minimum indexing value	0.1um
	Accuracy of measurement dimensions	$\leq \pm 0.0025/1000\text{mm}$
	Full-length range measurement accuracy	$\leq \pm 0.01\text{mm}$
	Repeat measurement error	$\leq 0.002\text{mm}$
Precision measuring block	Model size	100mm×150mm
	Perpendicularity of blocks measuringsurfaces	$\leq 0.002\text{mm}$
	Flatness of the measuring block surface	0.0012mm
	Parallelism of the block two sides	$\leq 0.002\text{mm}$
	Measuring block surface hardness	55--60HRC