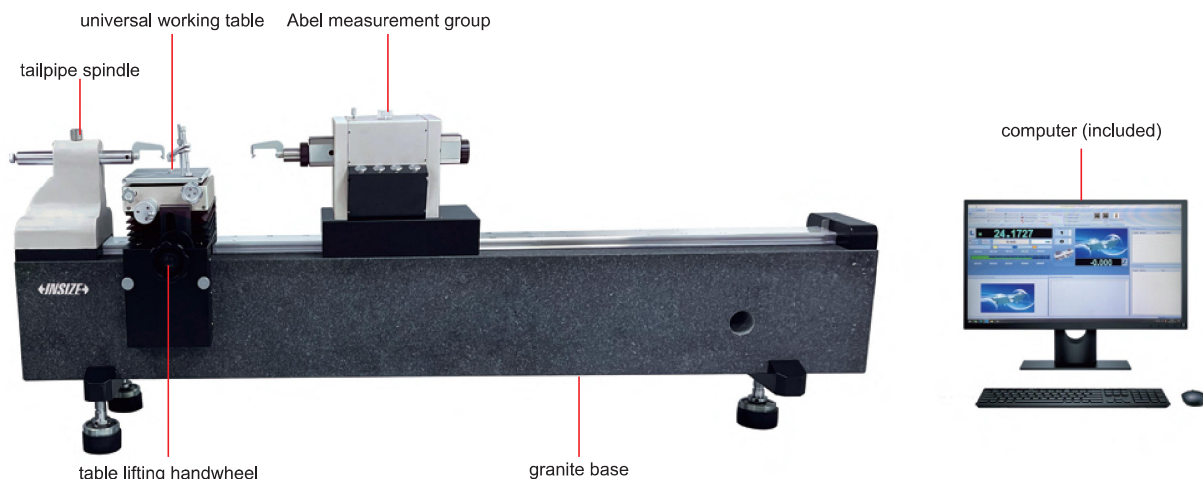


## LENGTH MEASURING MACHINES



**ISQ-HLM1000**

- High quality granite base ensures measurement stability and rigidity
- High-precision long scale, full-stroke absolute measurement, high measurement accuracy
- Measuring spindle with square design, good measuring stability
- Abel measuring head with bi-directional force measurement and electrical operation
- The Z-axis of the universal table adopts digital display device, which can be used for taper thread and pitch measurement
- Software can automatically identify inflection points
- Used for measuring the internal and external dimensions of workpieces, including gauge blocks, smooth plug gauges, smooth ring gauges, thread plug gauges, thread ring gauges, outside micrometer calibrator rods, inside micrometers, indicator tables, etc.

Code		ISQ-HLM700	ISQ-HLM1000
Absolute measuring range		external size: 0~700mm	external size: 0~700mm
		internal size: 12~580mm	internal size: 12~580mm
Resolution		0.05μm	
Accuracy		$\pm(0.2+L/1000)\mu\text{m}$ , (L is measuring length in mm)	
Repeatability		external size: 0.2μm, internal size: 0.5μm	
Measuring force		(0.5~2.5)N, adjustable	
Measurement of external thread		0~100mm	
Abel axis travel range		0~16mm	
Maximum clamping diameter of the ejector pin holder		when the length is 0~170mm: Ø100mm	
		when the length is 170~205mm: Ø90mm	
Universal working table	range of height adjustment	0~70mm	
	transverse travel	0~40mm	
	horizontal float	10mm	
	Y axis gradient	$\pm 3^\circ$	
	rotation of the working table	$\pm 3^\circ$	
	permissible load	30kg	
Working environment requirement		temperature: $20\pm 0.4^\circ\text{C}$ , temperature change: $\leq 0.3^\circ\text{C/h}$	
Calibration environment requirement		temperature: $20\pm 0.2^\circ\text{C}$ , temperature change: $\leq 0.2^\circ\text{C/h}$	
Power		220V $\pm 10\%$ , 50Hz	
Dimension (L×W×H)		1462×260×220mm	1780×260×220mm
Weight		250kg	350kg

**STANDARD DELIVERY**

Main unit		1 pc
Computer		1 pc
Software		1 set
Printer		1 pc
Universal working table		1 pc
Control cabinet		1 pc
Digital thermometer		1 set
Internal testing device	large measuring hook	1 pair
	standard ring gauge (Ø50mm)	1 pc
	measuring block grinding frame	2 pcs
Measuring caps	Ø2mm small plane cap	3 pcs
	Ø8mm medium plane cap	3 pcs
	Ø14mm large plane cap	2 pcs
	1.5×8mm blade shaped cap	3 pcs
	R20 spherical cap	4 pcs
Press plate	long screw press plate	2 pcs
	short screw press plate	2 pcs
	flexible high pressure plate	2 pcs
	flexible short pressure plate	2 pcs
Gauge block and gauge rod bracket	V-stand	2 pcs
	gauge block bracket	2 pcs
	prismatic guide	3 pcs
V-shape iron		1 pc
Large V-shape bracket		2 pcs



large measuring hook (included)



standard ring gauge (included)



measuring block grinding frames (included)



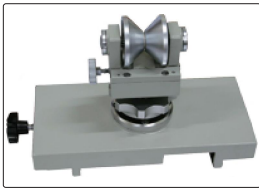
blade shape caps (included)



plane caps (included)



spherical caps (included)



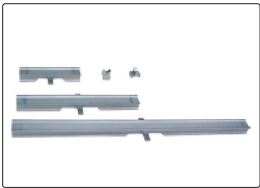
measuring rod V-shape bracket (included)



horizontal ejector pin bracket (included)



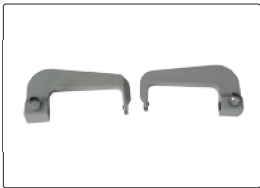
screw press plate (included)



gauge block brackets (included)



round floating table (optional)



small measuring hook (optional)



device electronic measuring (optional)



3-wires bracket (optional)

**OPTIONAL ACCESSORY**

Internal thread center diameter measuring device	ISQ-HLM-NT	round floating table 1 pc, spherical probes 1 set (11pairs), 60° measuring gauge 1 pair, gauge block bracket 1pc
Image type female thread measuring device	ISQ-HLM-VT	main unit 1 pc, image capture card 1 pc, measuring porobes 9 pcs (Ø0.3~Ø0.5mm), power adpter 1pc
Electronic measuring device	ISQ-HLM-EM	insulated work bench 1 pair, spherical measuring heads 1set, support arm 1pc, 5W transformers 1pc
55° measuring gauge	ISQ-HLM-MG	1 pair
Small measuring hook	ISQ-HLM-SK	small measuring hooks for internal testing devices 1set
3-wires bracket	ISQ-HLM-TB	3-wires bracket for external thread centre diameter measuring device 1pair
3-wires	7394	Ø0.118~Ø6.585mm