

LENGTH MEASURING MACHINES



ISQ-ULM300

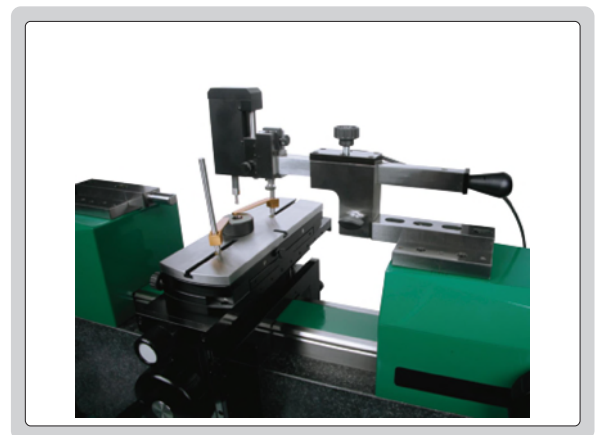
- High quality granite base ensures measurement stability and rigidity
- Measuring workpieces do not require pre-calibration with gauge blocks, and there is no transmission error
- The measuring force can be continuously adjusted
- Full range absolute measurement with high measurement efficiency
- The coaxiality of the anvils is extremely high, eliminating the need for repeated alignment
- 5-axis table can be moved freely in the direction of the guideway, locking

application example



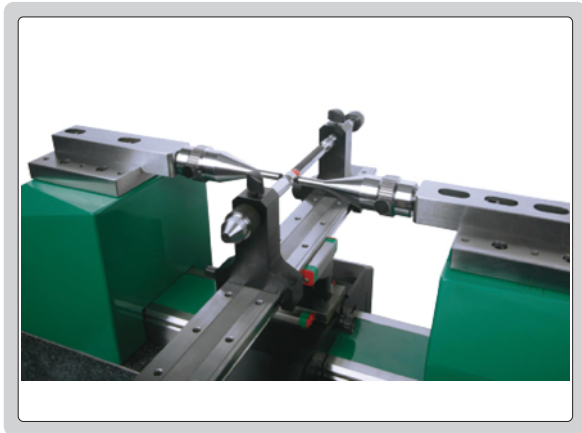
ring gauge measurement

application example



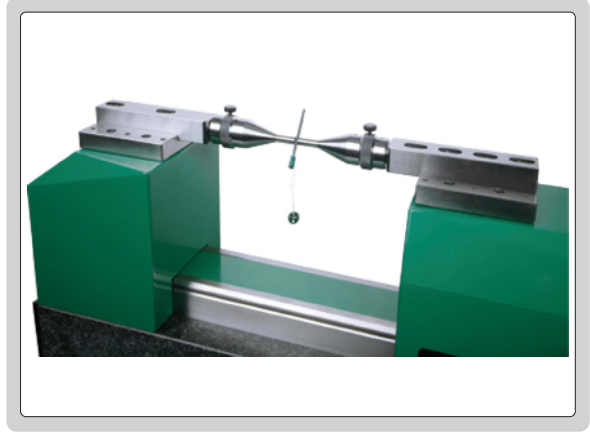
thread ring gauge measurement

application example



plug gauge measurement

application example



pin gauge measurement

SPECIFICATION

Code		ISQ-ULM300	ISQ-ULM500	ISQ-ULM1000	ISQ-ULM1500	ISQ-ULM2000	ISQ-ULM3000
Range	outside dimension	0~300mm	0~500mm	0~1000mm	0~1500mm	0~2000mm	0~3000mm
	inside dimension	1~180mm	1~380mm	1~880mm	1~1380mm	1~1880mm	1~2880mm
Grating scale length		330mm	530mm	1030mm	1530mm	2030mm	3030mm
Resolution		0.01μm					
Accuracy		(0.15+L/1000)μm, (L is the measuring length in mm)			(0.25+L/1000)μm, (L is the measuring length in mm)		
Repeatability		outside dimension: <0.2μm, inside dimension: <0.1μm					
Measuring force		0~12N, continuously adjustable					
Environmental requirement	temperature	19°C~21°C					
	humidity	40%~70%					
Calibration requirements		calibration temperature: 20°C±0.5°C, temperature change: ≤0.5°C/h; humidity: 50%±5%					
Power		220V, 50/60Hz					
Dimension (L×W×H)		982×290 ×425mm	1147×290 ×425mm	1647×290 ×425mm	2147×290 ×425mm	2737×290 ×425mm	3740×290 ×425mm
Weight		130kg	180kg	260kg	310kg	620kg	920kg

STANDARD DELIVERY

Main unit	1pc
Computer	1pc
Software	1pc
Spring finger	1pc
5-axis stage (Max load 12kg)	1pc
Flat probes	2pc
Temperature compensation system	1pc

OPTIONAL ACCESSORY

Micrometer rod calibration measuring device	adjustable vertical bracket	ISQ-ULM300-DM-1	1 pc
	V-bracket	ISQ-ULM300-DM-2	2 pc
Plain ring gauge measuring device	electronic measuring arm	ISQ-ULM300-SR-1	1 set
	single ball head set (probes 0.1/1.0/2.5/5mm)	ISQ-ULM300-SR-2	1 set
	40mm ring gauge	ISQ-ULM300-SR-3	1 pc
	dual hook probes	ISQ-ULM300-SR-4	2 pc
Thread ring gauge measuring device	electronic measuring arm	ISQ-ULM300-SR-1	1 set
	T-probe set (probes 0.455/0.53/0.62/0.725/0.895/1.1/1.35/1.65/2.05/2.55/3.2/4.0mm)	ISQ-ULM300-TR-2	1 set
Plain plug gauge measuring device	plug gauge measuring stage	ISQ-ULM300-SP-1	1 pc
	knife edge probes	ISQ-ULM300-SP-2	2 pc
Thread plug gauge measuring device	3-wire set (\varnothing 0.170/0.195/0.220/0.250/0.290/0.335/0.390/0.455/0.530/0.620/0.725/0.895/1.100/1.350/1.650/2.050/2.550/3.200mm)	ISQ-ULM300-TP-2	1 set
Gauge block measuring device	airey point bracket (100-300)mm	ISQ-ULM300-BM	1 pc
	10mm ball probe	ISQ-ULM300-FP	2 pc
Gauge block measuring device	airey point bracket (100-500)mm	ISQ-ULM500-BM	1 pc
	10mm ball probe	ISQ-ULM300-FP	2 pc
Gauge block measuring device	airey point bracket (100-1000)mm	ISQ-ULM1000-BM	1 pc
	10mm ball probe	ISQ-ULM300-FP	2 pc
OFFICE software		7313-OFFICE	1 set
5-axis stage (Max load 40kg)		ISQ-ULM300-FT	1 pc
Ring gauge holder (for ring gauges >100mm)		ISQ-ULM300-RG	1 pc

* Other measuring devices shall be consulted according to the requirements of specific measuring tools