

Universal
Length
Measuring
Machine



go beyond acceptable. go absolute.





KCP is proud to offer UNIVERSAL LENGTH MEASURING MACHINE (ULM).

ULM is useful for measurement of various types of limit gauges, thread gauges, spline gauges, measuring instruments & standards etc.

KCP's ULM is one of the highly accurate and versatile measuring equipment designed, developed and manufactured in KCP's world class manufacturing facility to achieve excellence with zero tolerance manufacturing concept supported with user friendly software for quick & reliable measurements.

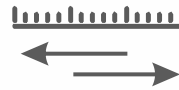
Application

Gauges/Instruments	Types
Plain Gauges	Plain Plug Gauge, Plain Ring Gauge, Width Gauge, Snap gauge, ID/OD Masters, Plain Taper Ring/Plug gauge, Measuring Pin/wires
Thread/Spline Gauges	Thread Plug Gauge, Thread Ring Gauge, Taper Thread Ring/Plug Spline Plug gauge, Spline Ring Gauge
Measuring Instrument	External/ Internal Micrometers, 3 point Micrometer, Stick Micrometer, Micrometer Head, Plunger Dial, Lever Dial, Bore Gauges, Probes
Standards	Rectangular Gauge Block, Length Bar, Setting Standard

KCP ULM Features



Robust, stable & unique long lasting design manufactured with engineering excellence



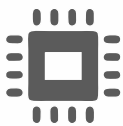
Complying **Abbe's comparator principle**, ensures highly precise & accurate measurement.



Constant measuring force over the measuring head with entire measuring range.



High precision rigid work table with **five axis movements** enables quick & correct positioning.



High quality electronic encoder is used to ensure consistent accurate measurement.



Complete set of accessories with versatile design, most suitable to meet wide range of measuring requirements.



Total gauge management software for Measurement, Evaluation & Reporting.



User friendly easy navigation system that saves clicks and gives quick results.



plain plug gauge



plunger dial indicator



plain ring gauge



gauge block



thread plug gauge

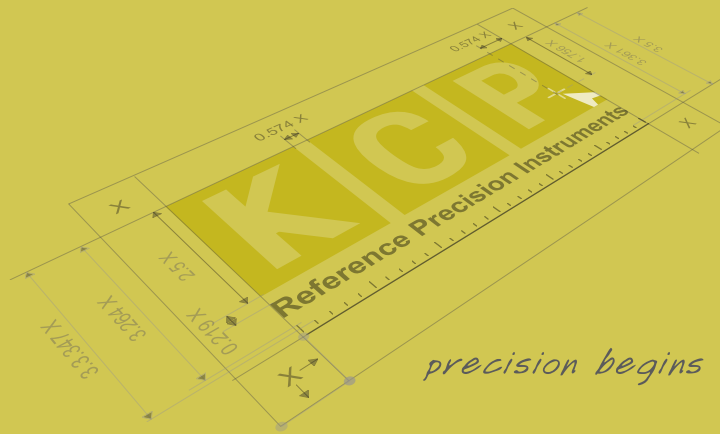


thread ring gauge

Various Measuring Applications

KCP ULM Models

TECHNICAL DATA	ULM300	ULM600	ULM1000
Range: <ul style="list-style-type: none"> • Direct Measurement • Differential Measurement 	0 - 100mm 100 - 300mm	0 - 100mm 100 - 600mm	0 - 100mm 100 - 1000mm
Application Range: <ul style="list-style-type: none"> • External Measurement • Internal Measurement 	330mm 0.5 - 300mm	630mm 0.5 - 600mm	1030mm 0.5 - 1000mm
Resolution (switchable)	0.01µm, 0.1µm, 1µm		
Repeatability	0.05 µm		
Display	Computer added screen display, TFT/LED, industrial computer with software		
Measuring Uncertainty (µm)	$[0.25 + 0.2L \times 10^{-3}] \mu\text{m}$ where 'L' in mm		
Measuring Force	0, 1.5N, 2.5N		
Work Table <ul style="list-style-type: none"> • Float • Y-axis • Z-axis • Tilt • Rotation 	25mm ±25mm 100 mm ±3° ±4°	25mm ±25mm 100 mm ±3° ±4°	25mm ±25mm 100 mm ±3° ±4°
Environmental Requirement : <ul style="list-style-type: none"> • Temperature • Humidity 	15 °C - 35 °C 30-80%	15 °C - 35 °C 30-80%	15 °C - 35 °C 30-80%
Electrical Requirements:	220VAC, 50HZ	220VAC, 50HZ	220VAC, 50HZ



precision begins here...

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