

Goniometer LMT GO-H 1400





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Technical Data

Marking	LMT GO-H 1400 Goniometer			
Goniometer type	Type A Goniometer according to IES LM-75-01			
Supplementary load	<ul style="list-style-type: none"> · 50 kg (max) at 0-Position center of gravity aligned with optical axis · 20 kg for other positions 			
Test Object Dimensions	<ul style="list-style-type: none"> · 1400 mm Ø width in horizontal axis · 700 mm distance between test table rotational center and limiting components of goniometer chassis 			
Test Object Table	<ul style="list-style-type: none"> · Adjustable in 3 axes (X, Y, Z) · Motor controlled crossway table · Size: 220 mm x 570 mm · M6 borings and sliding groove stones for load mounting 			
Number of Axes	· 5			
Height of optical axis	· 1150 mm ± 50 mm			
Axis	Movement range	Resolution	Velocity	Encoder Type
H - rotation	> ±90° (typical > ±100°)	0.01°	5°/s	absolute optical
V - rotation	> ±180°(typical > ±185°)	0.01°	30°/s	absolute optical
X - linear	±100 mm (option ±150 mm)	< 0.5mm	10 mm/s	relative
Y - linear	±300 mm	< 0.5mm	10 mm/s	relative
Z - linear	300 mm (100 – 400 mm)	< 0.5mm	2 mm/s	relative
H, V, X, Y, Z adjustment	<ul style="list-style-type: none"> · DC electric motor controls with tacho generators · Motoric adjustment of all axes (manual and/or computer controlled) 			
Electrical connection of test objects	<ul style="list-style-type: none"> · Multiplexer unit on test object table for electrical connection of supply and sense cables (depending on version up to 7 lamps and 3 power supplies) · Manual and computer controlled individual selection of lamps, simultaneous operation of two and more lamps possible · Option: Internal wiring for integration of interface in table multiplexer according to customer requirements · Option: integrated PWM generation unit 			
Test object alignment	· Built-in alignment laser in horizontal axis			
Control Station	· 19" racks for housing of control and display units, size depends on customer requirements and options			
Safety	<ul style="list-style-type: none"> · Double circle with supervision · 5 emergency mushroom stops (4 on goniometer chassis, 1 on electronic control unit) · 3-position enabling device · Laser scanning safety system with automatic goniometer slow down function without interruption of test routine 			
Emission	· EMC / EMI shield			
Electrical supply	<ul style="list-style-type: none"> · Rated supply voltage: · Power consumption: · Rated frequency: 	3 x 230 V / 400 V; 16 A + neutral + earth (CEEKON plug) 3.5 kW (+ 2 kW for power supply test sample) 50 Hz, range 45 to 60 Hz		
Environmental specifications	<ul style="list-style-type: none"> · Operating temperature range: 0 to +40°C · Storage temperature range: -5 to +60°C · Relative humidity: 75 % or less, non-condensing 			
Dimensions	<ul style="list-style-type: none"> · Transportation Dimensions: · Operation Space*): 	1700 mm (±50 mm) x 850 mm x 2400 mm (H x W x D) 2700 mm x 5000 mm x 5000 mm *: Operation in less space is possible by restrictions		
Weight	· 1000 kg without options and additional components			