



Horizon Premium Length Measuring & Setting Instrument

System Specifications (all models)

Resolution (analog)	.00005", .00002", .00001", .000005" (.01, .001, .0001mm)
Resolution (digital)	.001", .0001", .00001" (.01, .001, .0001mm)
Repetability ($\pm 2s$)	.000008"/.0002mm
Measuring Force	0—43 ounces/12N (adjustable) - Constant measuring force of the floating probe movement with digital indication
Displacement speed	60"/sec. - 1.5 m/sec.
Fine adjustment range	.394"/10mm

Operational temperature limit	10½—40½°C
Operational humidity limit	30—80%

Accuracy

	Analog
54-196-050	.00010" (.0025mm)
54-196-110	.00013" (.0033mm)
54-196-260	.00018" (.0045mm)
54-196-280	.00021" (.0053mm)
54-196-320	.00027" (.0068mm)



	Digital
54-196-750	.00007" (.0018mm)
54-196-800	.00010" (.0025mm)
54-196-815	.00013" (.0033mm)
54-196-820	.00017" (.0042mm)
54-196-850	.00020" (.0051mm)



Order No.	Description	Weight
ANALOG		
54-196-050	0—21.5" (550mm) Horizon Premium	176 lbs (80 kg.)
54-196-110	0—41" (1050mm) Horizon Premium	264 lbs (120 kg.)
54-196-260	0—61" (1550mm) Horizon Premium	352 lbs (160 kg.)
54-196-280	0—80.5" (2050mm) Horizon Premium	440 lbs (200 kg.)
54-196-320	0—120" (3050mm) Horizon Premium	616 lbs (279 kg.)
DIGITAL		
54-196-750	0—21.5" (550mm) Horizon Premium	176 lbs (80 kg.)
54-196-800	0—41" (1050mm) Horizon Premium	264 lbs (120 kg.)
54-196-815	0—61" (1550mm) Horizon Premium	352 lbs (160 kg.)
54-196-820	0—80.5" (2050mm) Horizon Premium	440 lbs (200 kg.)
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Order No.	Description
Measuring tables and supports	
54-196-160	Universal measuring table
54-197-132	Holding device for indicator, fits on 54-196-160 table for displacement
54-196-107	Set of vertically adjustable supports
54-196-108	Adjustable support (one only)
54-196-022	Set of L-shaped supports to fit #54-196-107
54-196-021	Set of V-shaped supports to fit #54-196-107
54-197-106	Floating measuring table with location centers and V-shaped supports requires 54-196-107 or 108
Accessories for setting and checking of comparative measuring instruments and indicators	
54-190-805	Set of carbide gage block attachments 1" (2" total)
54-196-006	Set of carbide gage block attachments for checking calipers
54-190-823	Dial indicator holder (for 3/8" and 8mm stems)
54-197-015	Dial indicator holder for max range of 2"/50mm (for 3/8" and 8mm stems)
54-197-115	Adjustable holding device for lever dial indicator
54-190-825	Set of V-shaped blocks for checking external micrometers over 2.36"/60mm requires 54-190-805
54-197-114	Holding device for external micrometers from .48"—4"/12—100mm requires 54-196-160
Accessories for setting and checking of comparative measuring instruments and indicators	
54-190-820	Holding device for setting of 2 point bore gages (fits on standard probes)
54-190-817	Set of supporting plates for setting of 2 point bore gages total length of 13"/330mm
54-190-829	Set of supporting plates for setting of 2 point bore gages total length of 7.08"/180mm
54-196-040	Adjustable support for setting of the reversal point requires 54-190-817 or 54-190-829
54-190-807	Set of anvils with Tungsten carbide balls for flat measuring surfaces
Accessories for external measurements	
54-190-806	Set of anvils with tungsten carbide tipped measuring surface - diameter 0.256"/6.50mm
54-197-806	Set of anvils with tungsten carbide tipped measuring surface - diameter 0.315"/8mm
54-190-865	Set of knife shaped anvils with tungsten carbide measuring surfaces
54-190-807	Set of anvils with tungsten carbide balls for flat measuring surfaces
54-197-007	Set of wires on holders for checking pitch diameters of external threads, pitch of 72-5 threads per inch/0.25-5mm



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Order No.	Description
Accessories for internal measurements	
54-197-162	Set of L-shaped probes (minimum internal measurement: .475"/12mm) for height of 1.57"/40mm
54-190-815	Clamping device for snap gages from .475" to 6" (12 to 150mm)
54-197-142	Set of clamping attachments for height of 2.36"/60mm - use with 54-196-160
54-190-818	Set of measuring devices for checking of pitch diameters of internal threads (minimum internal diameter of .475"/12mm) requires #54-190-826
54-190-826	Set of cones, 60½, for pitch of 64-5 threads per inch/ 0.4 to 5mm use ring #54-190-804
54-190-804	Setting ring, 60½ for use with 54-190-826
54-197-070	Measuring device for checking of internal diameters from .04"/1mm upwards and pitch diameters of internal threads from M4/32UNC-NC upwards for analog system - requires 54-197-073
54-197-073	Analog display for measuring device for #54-197-070
54-197-074	Measuring device for checking of internal diameters from .04"/1mm upwards and pitch diameters of internal threads from M4/32UNC-NC upwards for digital system
54-197-075	Set of T-shaped measuring inserts with ruby balls for pitch from 56 threads per inch/0.7mm upwards for use with 54-197-070 & 074
54-197-913	T-shaped measuring insert with ruby balls, dia. 0.01319"/.335mm for use with 54-197-070 & 074
54-197-076	Set of ruby ball measuring inserts for checking internal diameters from .04"/1mm upwards for use with 54-197-070 & 074
Reference gages	
54-197-050	Master plug gage, dia 1.9685"/50mm includes calibration certificate
54-197-040	Master ring gage, dia. 1.5748"/40mm includes calibration certificate

