

Mitutoyo Benelux

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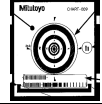
Gauge blocks >100-1500mm	€ 150			U(k = 2)	Steel/Ceramic: $0,10 \mu\text{m} + 0,34 \cdot 10^{-6} \cdot l$ Zero glass: $0,10 \mu\text{m} + 0,20 \cdot 10^{-6} \cdot l$
Micrometer standards till 1500mm	€ 50			U(k = 2)	Steel: $0,10 \mu\text{m} + 0,50 \cdot 10^{-6} \cdot l$
Masterballs (0-30) diameter + roundness	€ 275			U(k = 2)	Diameter: $0,2 \mu\text{m}$ Roundness: $40 \text{ nm} + 2\% \cdot R\text{ONt}$ Special request Roundness: $10 \text{ nm} + 2\% \cdot R\text{ONt}$
Masterballs (0-30) diameter	€ 184				
Ring gauges (4-50) diameter + roundness	€ 275			U(k = 2)	Diameter: $0,2 \mu\text{m}$ Roundness: $40 \text{ nm} + 2\% \cdot R\text{ONt}$
Ring gauges (4-50) diameter	€ 184				

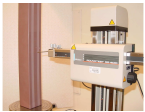
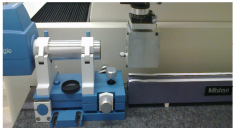
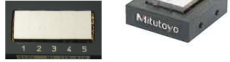
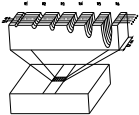
CMM					
Stepgauges 32 surfaces (310mm)	€ 624			U(k = 2)	0,16 µm + 0,34.10 ⁻⁶ ./
Stepgauges 46 surfaces (450mm)	€ 897				0,17 µm + 0,34.10 ⁻⁶ ./
Stepgauges 62 surfaces (610mm)	€ 1209				0,19 µm + 0,34.10 ⁻⁶ ./
Stepgauges 76 surfaces (750mm)	€ 1482				0,21 µm + 0,34.10 ⁻⁶ ./
Stepgauges 78 surfaces (770mm)	€ 1521				0,21 µm + 0,34.10 ⁻⁶ ./
Stepgauges 102 surfaces (1010mm)	€ 1989				0,24 µm + 0,34.10 ⁻⁶ ./
Stepgauges 116 surfaces (1150mm)	€ 2262				0,26 µm + 0,34.10 ⁻⁶ ./
Stepgauges 152 surfaces (1510mm)	€ 2964				0,30 µm + 0,34.10 ⁻⁶ ./
Stepgauges 18 surfaces (300mm) caliper checker 300	€ 351				0,16 µm + 0,34.10 ⁻⁶ ./
Stepgauges 24 surfaces (600mm) caliper checker 600	€ 468				0,19 µm + 0,34.10 ⁻⁶ ./
Stepgauges 26 surfaces (excl. 2 GB's) inside micrometer checker	€ 507				0,16 µm + 0,34.10 ⁻⁶ ./
Stepgauges 50 surfaces (excl. 2 GB's) inside micrometer checker	€ 975				0,19 µm + 0,34.10 ⁻⁶ ./
Stepgauges 22 surfaces (250mm)	€ 429				0,15 µm + 0,34.10 ⁻⁶ ./
Stepgauges 30 surfaces (320mm)	€ 585				0,16 µm + 0,34.10 ⁻⁶ ./
Stepgauge 38 surfaces (147mm) Kogame	€ 741				0,14 µm + 0,34.10 ⁻⁶ ./
Stepgauge 20 surfaces (190mm) QV-TP	€ 390				0,14 µm + 0,34.10 ⁻⁶ ./
Stepgauge 26 surfaces (250mm) QV-TP	€ 507				0,15 µm + 0,34.10 ⁻⁶ ./
Stepgauge 32 surfaces (310mm) QV-TP	€ 624				0,16 µm + 0,34.10 ⁻⁶ ./
Stepgauge 46 surfaces (450mm) QV-TP	€ 897				0,17 µm + 0,34.10 ⁻⁶ ./
Stepgauge 66 surfaces (650mm) QV-TP	€ 1287				0,20 µm + 0,34.10 ⁻⁶ ./
Stepgauges 22 surfaces (420mm) KOBA	€ 429				0,17 µm + 0,34.10 ⁻⁶ ./
Stepgauges 32 surfaces (620mm) KOBA	€ 624				0,19 µm + 0,34.10 ⁻⁶ ./
Stepgauges 42 surfaces (820mm) KOBA	€ 819				0,21 µm + 0,34.10 ⁻⁶ ./
Stepgauges 52 surfaces (1020mm) KOBA	€ 1014				0,24 µm + 0,34.10 ⁻⁶ ./
Straightedges till 300mm	€ 132			U(k = 2)	1,5 µm
Straightedges till 500mm	€ 153				
Straightedges till 750mm	€ 173				
Straightedges till 1000mm	€ 193				
Block square, longest legg till 300mm	€ 173			U(k = 2)	1,5 µm for the straightness of the legs (0,5 m/L)" for the angle deviation (=appr. 2,4µm/L)
Block square, longest legg till 500mm	€ 193				
Block square, longest legg till 750mm	€ 204				
Block square, longest legg till 1000mm	€ 224				
Quadra square	€ 336			U(k = 2)	1,5 µm for the straightness of the legs (0,5 m/L)" for the angle deviation (=appr. 2,4µm/L)
Cube square	€ 509			U(k = 2)	1,5 µm for the straightness of the legs (0,5 m/L)" for the angle deviation (=appr. 2,4µm/L)

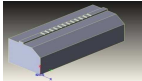


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Optical					
Glass Scale (Projector scale) 50 mm (11 stripes, pitch 5 mm)	€ 243			U(k = 2)	0,40 μm + 1,00.10 ⁻⁶ ./
Glass Scale (Projector scale) 80 mm (17 stripes, pitch 5 mm)	€ 375				
Glass Scale (Projector scale) 100 mm (11 stripes, pitch 10 mm)	€ 243				
Glass Scale (Projector scale) 150 mm (16 stripes, pitch 10 mm)	€ 353				
Glass Scale (Projector scale) 200 mm (21 stripes, pitch 10 mm)	€ 463				
Glass Scale (Projector scale) 300 mm (31 stripes, pitch 10 mm)	€ 684				
Glass Scale (Projector scale) 400 mm (41 stripes, pitch 10 mm)	€ 904				
Glass Scale (Projector scale) 600 mm (61 stripes, pitch 10 mm)	€ 1345				
Glass scale 250 mm, working standard (26 stripes, pitch 10 mm)	€ 573				
Glass scale 500 mm, working standard (51 stripes, pitch 10 mm)	€ 1125				
Motic calibration slide	€ 105			U(k = 2)	10 μm
VMM					
Line standard (Vision scale) QI 105 mm (22 stripes, pitch 5 mm)	€ 485			U(k = 2)	Normal glass: 0,08 μm + 1,00.10 ⁻⁶ ./ Zero glass: 0,08 μm + 0,50.10 ⁻⁶ ./
Line standard (Vision scale) QI 205 mm (42 stripes, pitch 5 mm)	€ 926				
Line standard (Vision scale) QI 405 mm (82 stripes, pitch 5 mm)	€ 1808				
Line standard (Vision scale) QS/QV 200 mm (21 stripes, pitch 10 mm)	€ 463				
Line standard (Vision scale) 250 mm (26 stripes, pitch 10 mm)	€ 573				
Line standard (Vision scale) QS/QV 400 mm (41 stripes, pitch 10 mm)	€ 904				
Line standard (Vision scale) QV 600 mm (61 stripes, pitch 10 mm)	€ 1345				
Line standard (Vision scale) HQV 200 mm (21 stripes, pitch 10 mm)	€ 463				
Line standard (Vision scale) HQV 300 mm (31 stripes, pitch 10 mm)	€ 684				
Line standard (Vision scale) HQV 400 mm (41 stripes, pitch 10 mm)	€ 904				
Line standard (Vision scale) HQV 200 mm (41 stripes, pitch 5 mm)	€ 904				
Line standard (Vision scale) HQV 300 mm (61 stripes, pitch 5 mm)	€ 1345				
Line standard (Vision scale) HQV 440 mm (89 stripes, pitch 5 mm)	€ 1962				
Line standard (Vision scale) HQV 650 mm (131 stripes, pitch 5 mm)	€ 2889				
2-D grids 200x200 mm pitch 10 mm (21 mp x-as, 21 mp, Y-as)	€ 926			U(k = 2) -afstand tussen 2 punten -lineariteit -rechtheid -haaksheid -rotatie	0,8 μm + 0,5.10 ⁻⁶ ./ 0,2 μm + 0,5.10 ⁻⁶ ./ 0,2 μm 0,2" 0,4"
QV calibration chart 001	€ 485		like 02AKN020 	U(k = 2)	0,24 μm
QV calibration chart 009	€ 2000		like 02AKX160 	U(k = 2)	0,24 μm + 2,0.10 ⁻⁶ ./ voor de scales 0,04 μm for RONT

FMI					
Straightedges till 280mm on Roundtest with reversal method (low uncertainty)	€ 306			$U(k = 2)$	38nm + 3,5%.z
Straightedges till 1000 mm on CMM with autocollimator (low uncertainty)	€ 407			$U(k = 2)$	36 nm + 0,12·10 ⁻⁶ /l
Hemisphere with reversal or multi-step method	€ 407		like 211-016 	$U(k = 2)$ RONT (0-1 µm)	10nm + 2%. <i>RONT</i>
Flick standard	€ 306			$U(k = 2)$ RONT (0-100 µm)	150nm + 2%. <i>RONT</i>
Roughness specimen, depth standards	€ 204		Type A1 Step standards	Type A2 Groove Depth-setting standards	
			like 178-611 & 178-610 	like Halle standards 	
				$U(k = 2)$	d (0-20 µm): 10 nm + 2%. <i>d</i> Pt (0-20 µm): 10 nm + 2%. <i>Pt</i>

Roughness specimen, 1 profile	€ 228		Type B (tip control) & C (vertical / horizontal spacing & amplitude) sine waves or saw-tooth like Mitutoyo: 178-601 (mm) & 178-602 (inch/mm) Rubert: 178-605 (mm) & 178-606 (inch/mm) 	Type D1 roughness standards fine, middle, large like Halle standards	
Roughness specimen, 2 profiles	€ 456		Type B & C sine waves like 178-604 	U(k = 2) Ra (0-20 µm): 3 nm + 3%.Ra Rz (0-80 µm): 30 nm + 2%.Rz Rt (0-80 µm): 40 nm + 3%.Rt Rsm (10-250 µm): 0.1%.Rsm special request: Rsm (10-250 µm): 0.01%.Rsm	
X-axis contour normaal	€ 500			U(k = 2)	0,24 µm + 0,16.10 ⁻⁶ ./
Temperature					
Temperature sensors	€ 102			U(k = 2)	0,03 K