



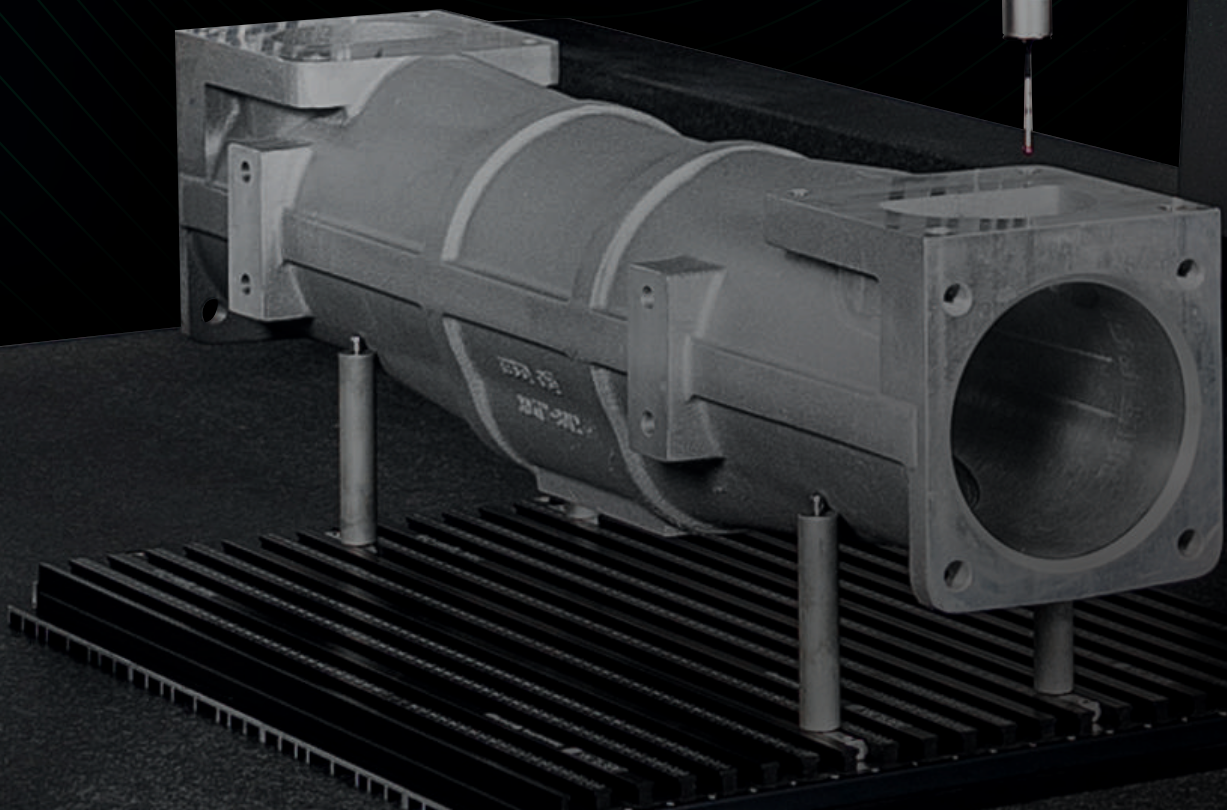
ALPA



PROMO



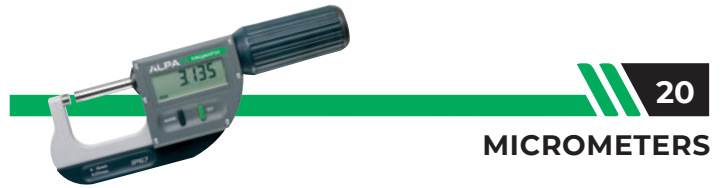
VALID UNTIL 28.02.25



WORKBENCH INSTRUMENTS



2
CALIPERS



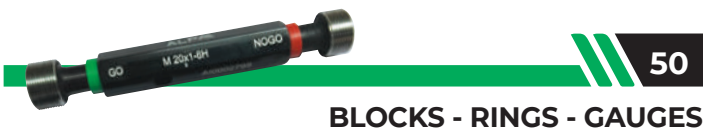
20
MICROMETERS



37
INDICATORS



46
BORE GAUGES



50
BLOCKS - RINGS - GAUGES



58
LEVELS - PROTRACTORS



62
HEIGHT GAUGES



65
ACCESSORIES - CONTROL INSTRUMENTS

MEASURING MACHINES AND HIGH TECHNOLOGY INSTRUMENTS



70
MEASURING MACHINES
AND HIGH TECHNOLOGY INSTRUMENTS

Pictures are not binding

92

PRICE LIST FOR CALIBRATION



WORKBENCH INSTRUMENTS

TOP quality



MEGAty EVO

IP67 Preset digital caliper

Swiss made digital caliper IP67 electronics with data output, high protection against dust and liquids even while in temporary immersion. Clamping screw, hardened stainless steel frame.

CONNECTION CABLES

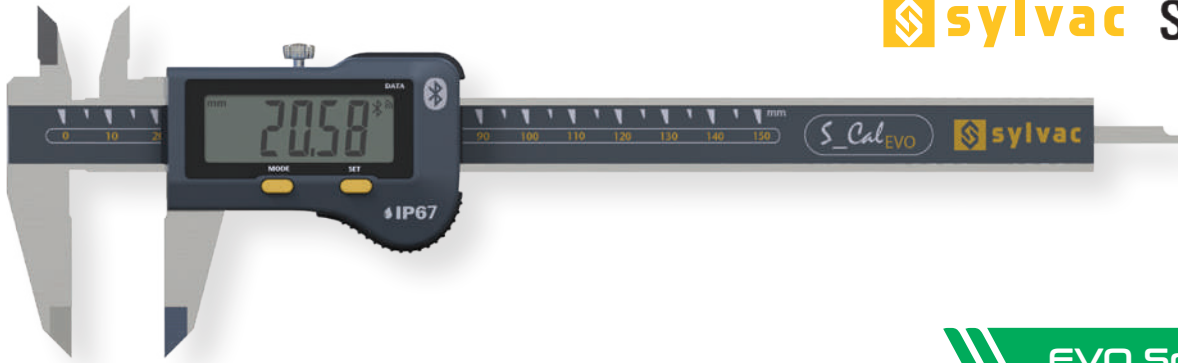
COD. 1	€	Description
ACC01000	163,00	Proximity: RS232
ACC01001	163,00	Proximity: USB

WITHOUT DATA OUTPUT

COD. 1	€	Depth bar	Range mm	Jaws mm
AA014150NDP	135,00	■	0 ÷ 150	40

WITH DATA OUTPUT

AA014150P	150,00	■	0 ÷ 150	40
AA014150T	150,00	●	0 ÷ 150	40
AA014200	239,00	■	0 ÷ 200	50
AA014300	290,00	-	0 ÷ 300	64



sylvac SIS Smart Inductive System

EVO Smart

Digital caliper IP67 Bluetooth

Resolution 0.01mm. Swiss made electronics with integrated Bluetooth data transmission and automatic stand-by. Very high level of protection against dust and liquids. Slide with locking screw and hardened stainless steel construction.

CODE 1	€	Rod	Measuring range mm	Jaws mm
AA013150BTP	195,00	■	0 ÷ 150	40
AA013150BTT	195,00	●		
AA013200BT	405,00	■	0 ÷ 200	50
AA013300BT	510,00	-	0 ÷ 300	64

TOP quality



PRO67

IP67 Digital caliper

0,01mm resolution. Electronics with a very high degree of protection against particles and liquids, even while in temporary immersion. Vernier with locking screw system, incremental measuring and zero-setting at any position.

COD. 1	€	Depth bar	Range mm	Jaws mm
AA017150P	115,00	■	0 ÷ 150	40
AA017150T	115,00	●		
AA017200	152,00	■	0 ÷ 200	50
AA017300	196,00	■	0 ÷ 300	60



ABSolutus

IP54 Digital caliper

Resolution 0,01 mm. Digital caliper with electronics with a very high degree of protection against particles and liquids. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function.

COD. 1	€	Depth bar	Range mm	Jaws mm
AA019150P	68,00	■	0 ÷ 150	40
AA019150T	68,00	●		
AA019200	98,00	■	0 ÷ 200	50
AA019300	133,00	■	0 ÷ 300	60



PICKall

Digital caliper

Resolution 0,01mm - ON/OFF button, four measuring functions, zero setting at any position, cursor with thumb roller and locking screw.

COD. 1	€	Depth bar	Range mm
AA020SET	278,00	■	0 ÷ 150 / 0 ÷ 200 / 0 ÷ 300

COD. 1	€	Depth bar	Range mm	Jaws mm
AA020150P	62,00	■	0 ÷ 150	40
AA020150T	62,00	●		
AA020200	91,00	■	0 ÷ 200	50
AA020300	130,00	■	0 ÷ 300	62

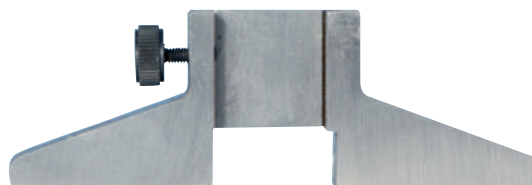


Digital caliper

0,01mm Resolution. Metal casing, ON/OFF button, zero setting at any position and locking screw. Preset function included measurement unit of mm.

COD. 1	€	Range mm	Jaws mm
AA021100	42,00	0 ÷ 100	30
AA021150	43,00	0 ÷ 150	40
AA021200	61,00	0 ÷ 200	50
AA021300	99,00	0 ÷ 300	62

Depth base



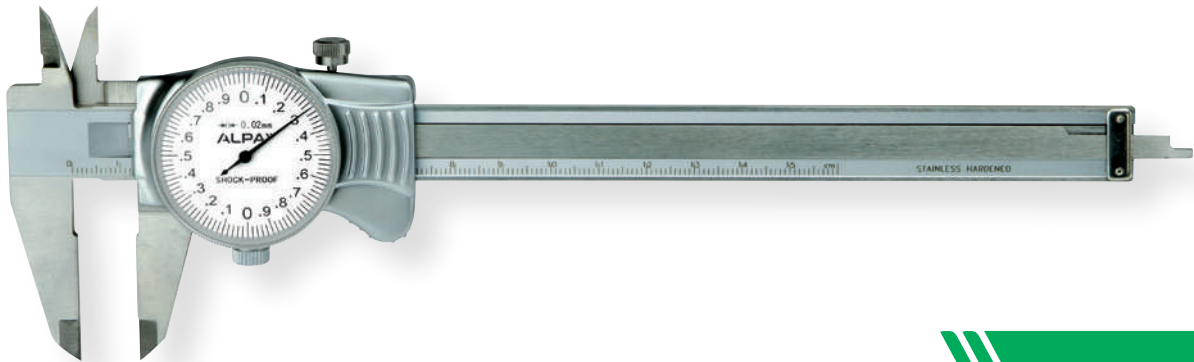
COD. 1	€	Description
ACC03001	30,00	Suitable for digital, dial and vernier calipers.



Dial caliper

0,01mm resolution. Hardened stainless steel dial caliper, dial 39mm, 1mm per revolution.

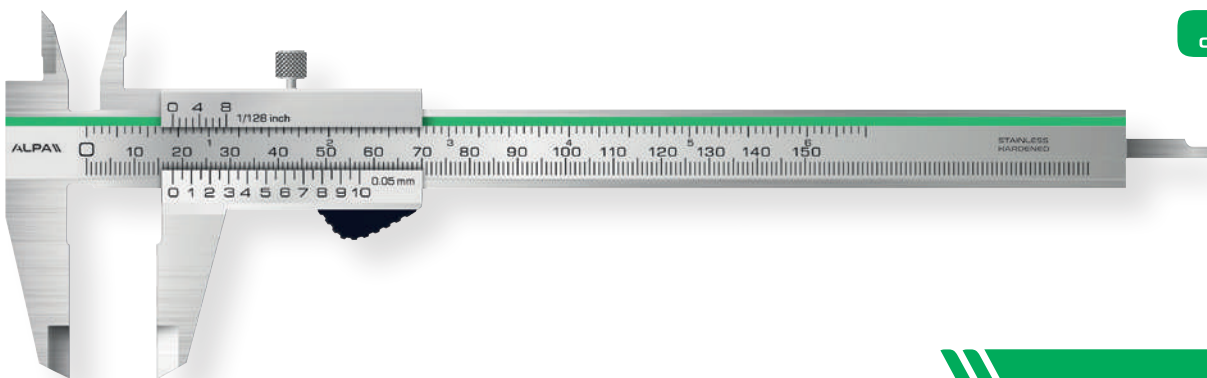
COD. 1	€	Range mm	Resolution mm	Jaws mm
AC010150	53,00	0 ÷ 150	0,01	40
AC010200	70,00	0 ÷ 200		50
AC010300	123,00	0 ÷ 300		62



Dial caliper

0,02mm resolution. Hardened stainless steel dial caliper, dial 39mm, 2mm per revolution.

COD. 1	€	Range mm	Resolution mm	Jaws mm
AC015150	49,00	0 ÷ 150	0,02	40
AC015200	65,00	0 ÷ 200		50
AC015300	102,00	0 ÷ 300		62

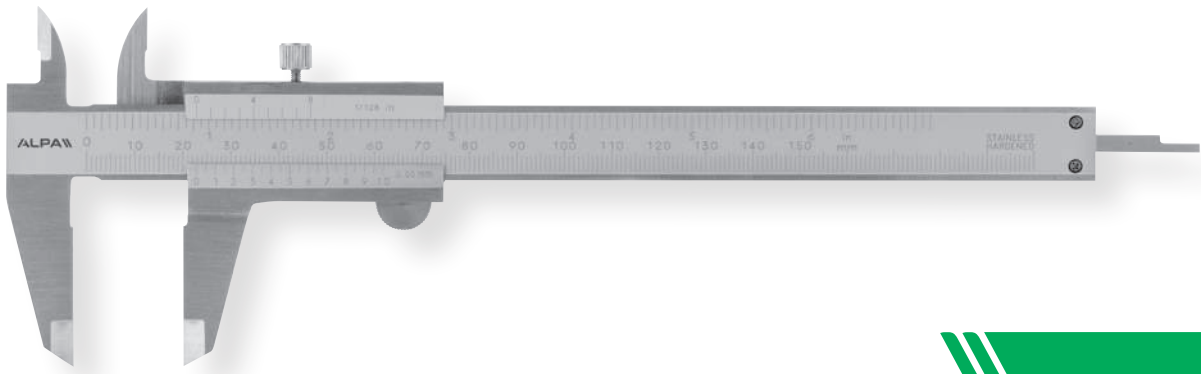


TOP
quality

Monoblock vernier caliper

Vernier 1/20 resolution 0,05mm, high accuracy, caliper and cursor hardened steel made, matt-chrome finish scale, cursor with locking screw.

COD. 1	€	Range mm	Jaws mm
AB012100	33,00	0 ÷ 100	30
AB012150	34,00	0 ÷ 150	40
AB012200	54,00	0 ÷ 200	50
AB012300	107,00	0 ÷ 300	60

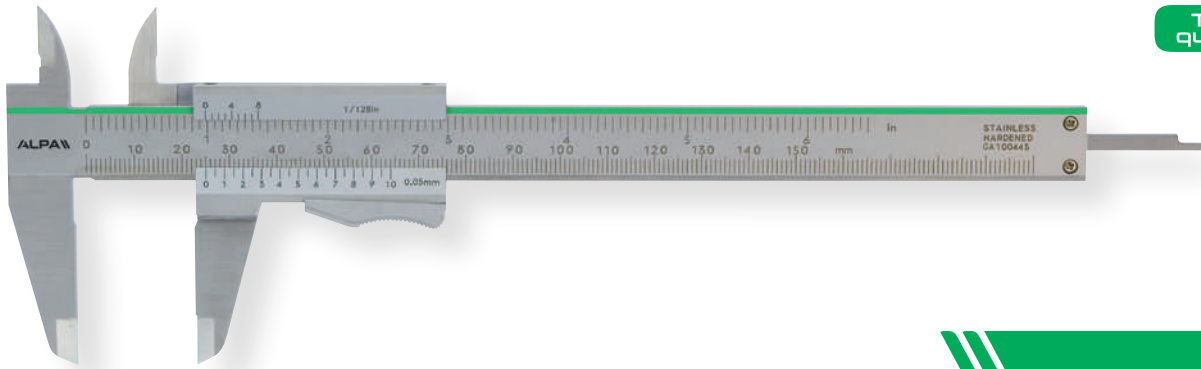


Monoblock vernier caliper

Monoblock stainless steel structure, vernier 1/20, graduation 0,05mm. Matt-chrome finish scale. Locking screw.

COD. 1	€	Range mm	Jaws mm
AB017100	21,00	0 ÷ 100	40
AB017150	23,00	0 ÷ 150	40
AB017200	31,00	0 ÷ 200	50
AB017300	64,00	0 ÷ 300	60

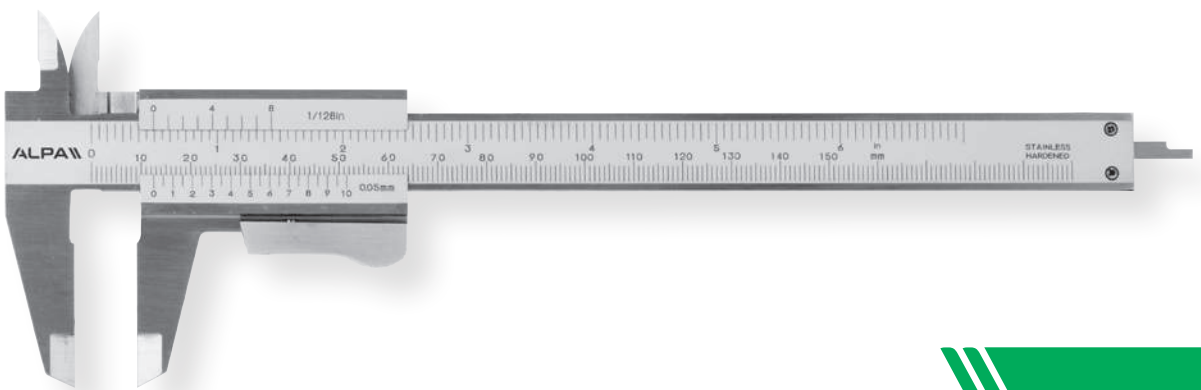
TOP quality



Monoblock vernier caliper

Vernier 1/20, graduation 0,05mm - Matt-chrome finish scale, locking button. Accurate execution.

COD. 1	€	Range mm	Jaws mm
AB011150	38,00	0 ÷ 150	40
AB011200	54,00	0 ÷ 200	50



Monoblock vernier caliper

Vernier 1/20, graduation 0,05mm - Matt-chrome finish scale, locking button. Accurate execution.

COD. 1	€	Range mm	Jaws mm
AB02515020	24,00	0 ÷ 150	40
AB025200	36,00	0 ÷ 200	50
AB025300	80,00	0 ÷ 300	60

TOP quality



MEGAline

IP54 Preset carbon fiber digital caliper

Resolution 0,01mm. Carbon fiber structure, designed to combine low weight and stiffness even over significant lengths. Stainless steel TiN coated jaws, protected against dust, water resistant, swiss made electronics. Cursor with locking screw, large LCD display, fine adjustment.

COD. 1	€	Range mm	Jaws mm	Section mm
AA0401000150	1.876,00	0 ÷ 1000	150	47 x 16
AA0401000300	3.097,00		300	
AA0401000500	3.843,00		500	
AA0401500150	2.921,00	0 ÷ 1500	150	
AA0401500200	3.184,00		200	
AA0401500300	3.661,00		300	
AA0401500500	4.450,00	0 ÷ 2000	500	
AA0402000150	3.144,00		150	
AA0402000200	3.504,00		200	
AA0402000300	4.635,00	300	500	
AA0402000500	5.103,00			

COD. 1	€	Range mm	Jaws mm	Section mm
AA0402500200	4.588,00	0 ÷ 2500	200	47 x 16
AA0402500300	5.132,00		300	
AA0403000200	5.206,00	0 ÷ 3000	200	
AA0403000300	5.619,00		300	
AA0403500200	6.529,00	0 ÷ 3500	200	
AA0403500300	7.042,00		300	
AA0404000200	11.518,00	0 ÷ 4000	200	47 x 38
AA0404000300	12.719,00		300	
AA0404500200	13.745,00	0 ÷ 4500	200	
AA0404500300	14.630,00		300	
AA0405000200	15.012,00	0 ÷ 5000	200	
AA0405000300	16.049,00		300	

TOP quality



MEGAline

IP67 Preset carbon fiber digital caliper

Carbon fiber sliding gauge. Stainless steel jaws. TIN coated contacts. Data output: Proximity RS232 and USB. Resolution 0,01mm

COD. 1	€	Range mm	Jaws mm	Section mm
AA0431000150	1.626,00	0 ÷ 1000	150	40 x 13
AA0431000200	1.965,00		200	

COD. 1	€	Range mm	Jaws mm	Section mm
AA0431500150	2.074,00	0 ÷ 1500	150	40 x 13
AA0431500200	2.457,00		200	
AA0432000150	2.718,00	0 ÷ 2000	150	
AA0432000200	3.275,00		200	

TOP quality



MEGAline

IP67 Preset digital caliper

Resolution 0,01mm. Swiss made electronics, protected against dust, water resistant, cursor with locking screw. Provided in wooden case.

COD. 1	€	Range mm	Jaws mm	Section mm
AA033500125	1.016,00	0 ÷ 500	125	23 x 6
AA033500150	1.049,00		150	27 x 7
AA033600125	1.049,00	0 ÷ 600	125	23 x 6
AA033600150	1.234,00		150	27 x 7
AA033800150	1.491,00	0 ÷ 800	150	27 x 7
AA0331000150	1.782,00	0 ÷ 1000		



TOP quality

MEGAline

IP67 Preset digital caliper

Resolution 0,01mm. Swiss made electronics, protected against dust and water immersion, cursor with locking screw.

COD. 1	€	Range mm	Jaws mm	Section mm
AA029300	544,00	0 ÷ 300	100	17 x 5
AA029400	602,00	0 ÷ 400		
AA029500	650,00	0 ÷ 500		
AA029600	731,00	0 ÷ 600		



TOP quality

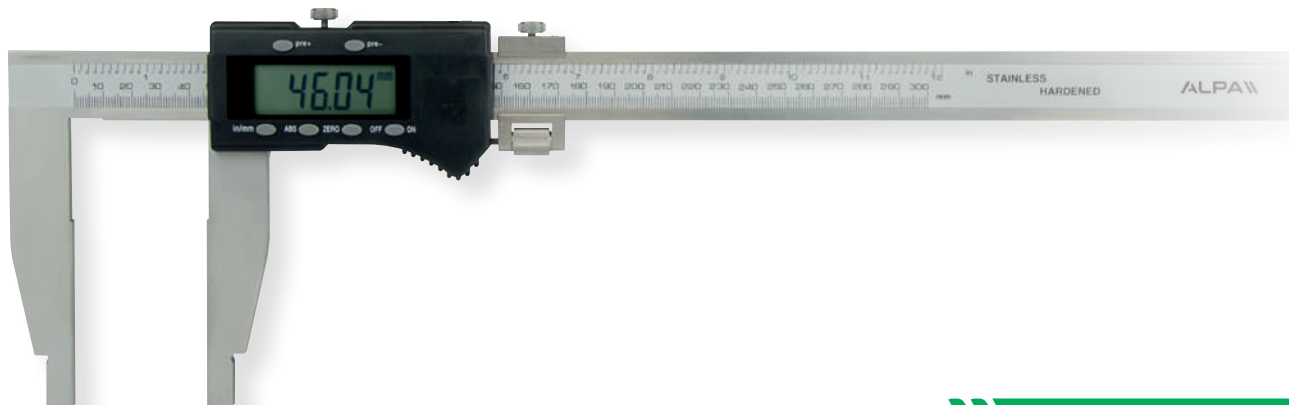
SIS Smart Inductive System

sylvac

Digital caliper IP67 Bluetooth

Resolution 0.01mm. Swiss made electronics with integrated Bluetooth data transmission and automatic stand-by. Protected from dust and liquid immersion, slider with locking screw.

CODE 1	€	Measuring range mm	Jaws mm	Section mm
AA028300BT	730,00	0 ÷ 300	100	17 x 5



Digital caliper with fine adjustment

Resolution 0,01mm. Cursor with locking screw, fine adjustment. With preset.

COD. 1	€	Range mm	Jaws mm
AA050300	188,00	0 ÷ 300	100
AA050500100	240,00	0 ÷ 500	
AA050500150	270,00		150
AA050500200	370,00		200

COD. 1	€	Range mm	Jaws mm
AA050600150	398,00	0 ÷ 600	150
AA050600300	610,00		300
AA050800150	480,00	0 ÷ 800	150
AA0501000150	698,00		300
AA0501000300	1.310,00	0 ÷ 1000	200
AA0501500200	1.450,00		300
AA0501500300	1.828,00	0 ÷ 1500	200
AA0502000300	2.112,00		300
AA0503000300	3.983,00	0 ÷ 3000	



Digital caliper for internal and external

Resolution 0,01mm. ON/OFF button, incremental zero setting or restoration of absolute scale (ABS), Micrometric adjustment and vernier with locking screw.

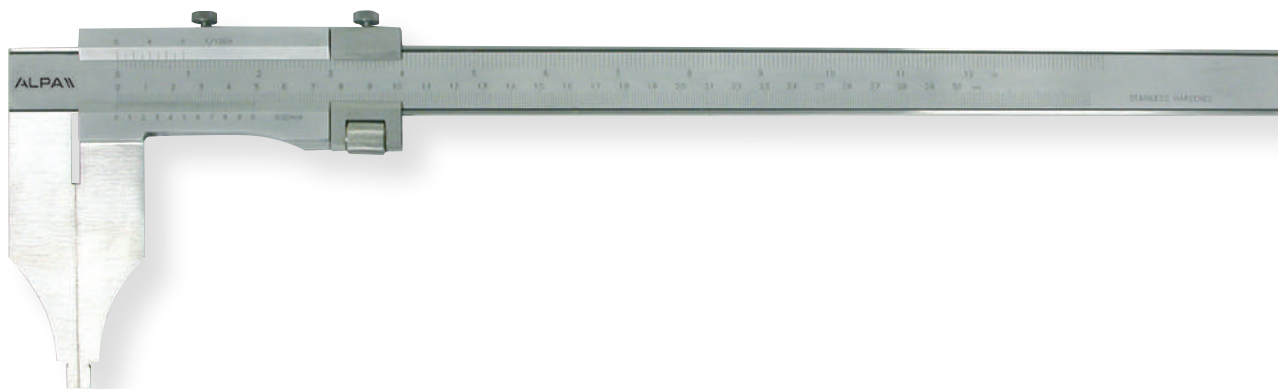
COD. 1	€	Range mm	Jaws mm
AA051600100	490,00	0 ÷ 600	100
AA0511000125	850,00	0 ÷ 1000	125



Digital caliper for internal and external

Resolution 0,01mm. ON/OFF button, incremental zero setting or restoration of absolute scale (ABS), Micrometric adjustment and vernier with locking screw.

COD. 1	€	Range mm	Jaws mm
AA052300	249,00	0 ÷ 300	150
AA052600	487,00	0 ÷ 600	
AA0521000	868,00	0 ÷ 1000	

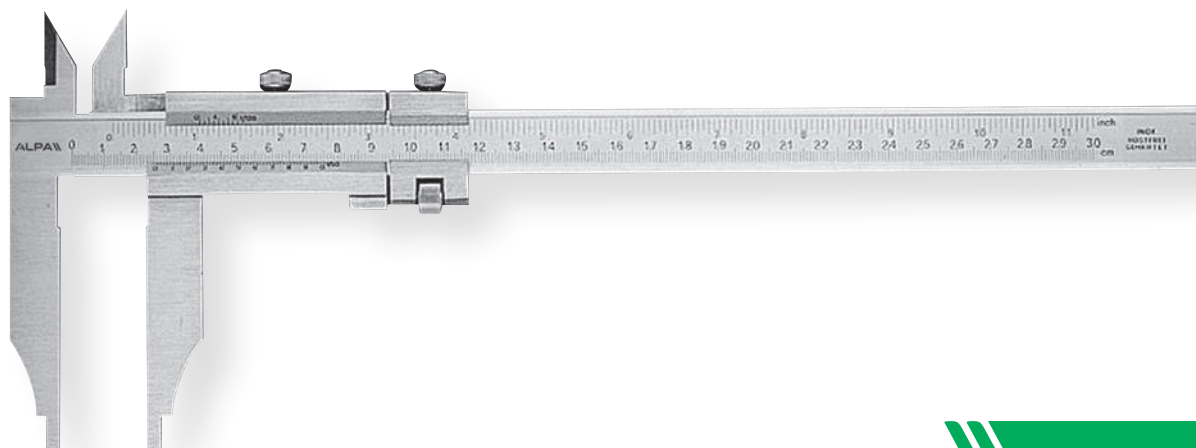


Monoblock vernier caliper

Vernier 1/50, graduation 0,02mm. Matt-chrome finish scale, cursor with locking screw and fine adjustment. accurate execution.

COD. 1	€	Range mm	Jaws mm
AB035200	80,00	0 ÷ 200	60
AB035250	110,00	0 ÷ 250	75
AB03530090	130,00	0 ÷ 300	90
AB035300100	174,00		100
AB035300150	227,00		150
AB035400125	243,00	0 ÷ 400	125
AB035400200	322,00		200
AB035500115	278,00	0 ÷ 500	115
AB035500150	288,00		150
AB035500200	427,00		200

COD. 1	€	Range mm	Jaws mm
AB035600115	290,00	0 ÷ 600	115
AB035600150	330,00		150
AB035600200	400,00		200
AB035600300	690,00		300
AB035800150	430,00	0 ÷ 800	150
AB035800300	740,00		300
AB035800400	1.077,00		400
AB0351000150	600,00	0 ÷ 1000	150
AB0351000300	900,00		300
AB0351000500	1.520,00		500
AB0351200200	1.250,00	0 ÷ 1200	200
AB0351500200	1.290,00	0 ÷ 1500	200
AB0351500300	1.666,00		300
AB0351500500	2.219,00		500
AB0352000300	2.300,00	0 ÷ 2000	300
AB0352000500	2.709,00		500
AB0353000300	3.700,00	0 ÷ 3000	300



Vernier caliper with inside points

Vernier 1/50, graduation 0,02mm. Cursor with locking screw and fine adjustment. Accurate execution.

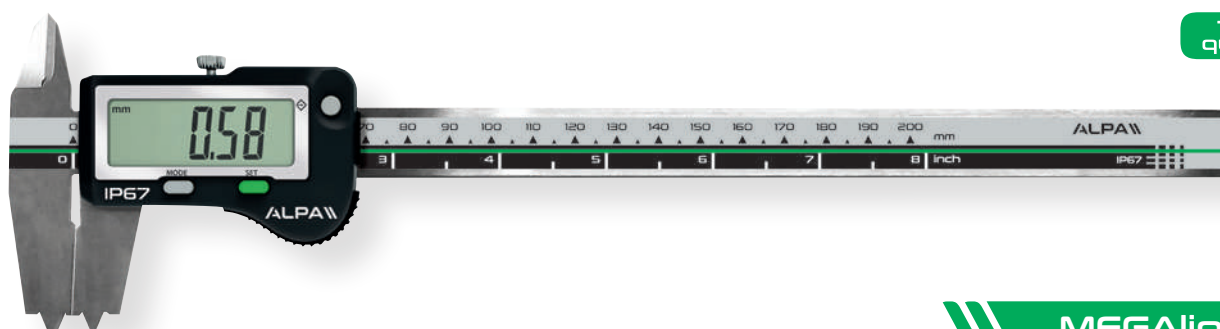
COD. 1	€	Range mm	Jaws mm
AB045300	200,00	0 ÷ 300	90
AB045500	428,00	0 ÷ 500	150
AB045600	487,00	0 ÷ 600	
AB0451000	758,00	0 ÷ 1000	



Ring joint vernier caliper

Matt-chrome finish readout scale. Etched, precision graduation. Raised slider for easy movement. Suitable for measuring the seat of 23° Ring Joint. Slide stop at beam end. Manufactured according to DIN 862.

COD. 1	€	Range mm	Jaws mm
AB070300	548,00	0 ÷ 300	45
AB070500	812,00	0 ÷ 500	45
AB0701000	1.238,00	0 ÷ 1000	80



TOP quality

IP67 Preset ring joint digital caliper

Resolution 0,01mm. Swiss made electronics. Protected against dust, and water immersion, zero setting at any position, cursor with locking screw.

COD. 1	€	Range mm	Jaws mm
AA080200	567,00	0 ÷ 200	32



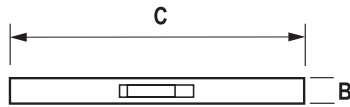
Setting master

Zero setting with details having 23° of inclination to set Ring Joint calipers.

COD. 1	€	A mm	D mm
ACC09001	380,00	90	50

TOP quality

MEGAline



IP67 Preset digital depth caliper

Resolution 0,01mm. Hardened stainless steel digital depth caliper with movable support. Swiss made electronics IP67mm/inch - cable connect proximity. Push/pull support on the same level. Clamping screw. Provided with wooden case.



COD. 1	€	Range mm	B mm	C mm
AA064300	786,00	0 ÷ 300	12	150
AA064400	808,00	0 ÷ 400		
AA064500	949,00	0 ÷ 500		
AA064600	1.051,00	0 ÷ 600		
AA064800	1.526,00	0 ÷ 800		
AA0641000	1.882,00	0 ÷ 1000		

Accessories

Optional tips for depth caliper AA064 available on catalogue.

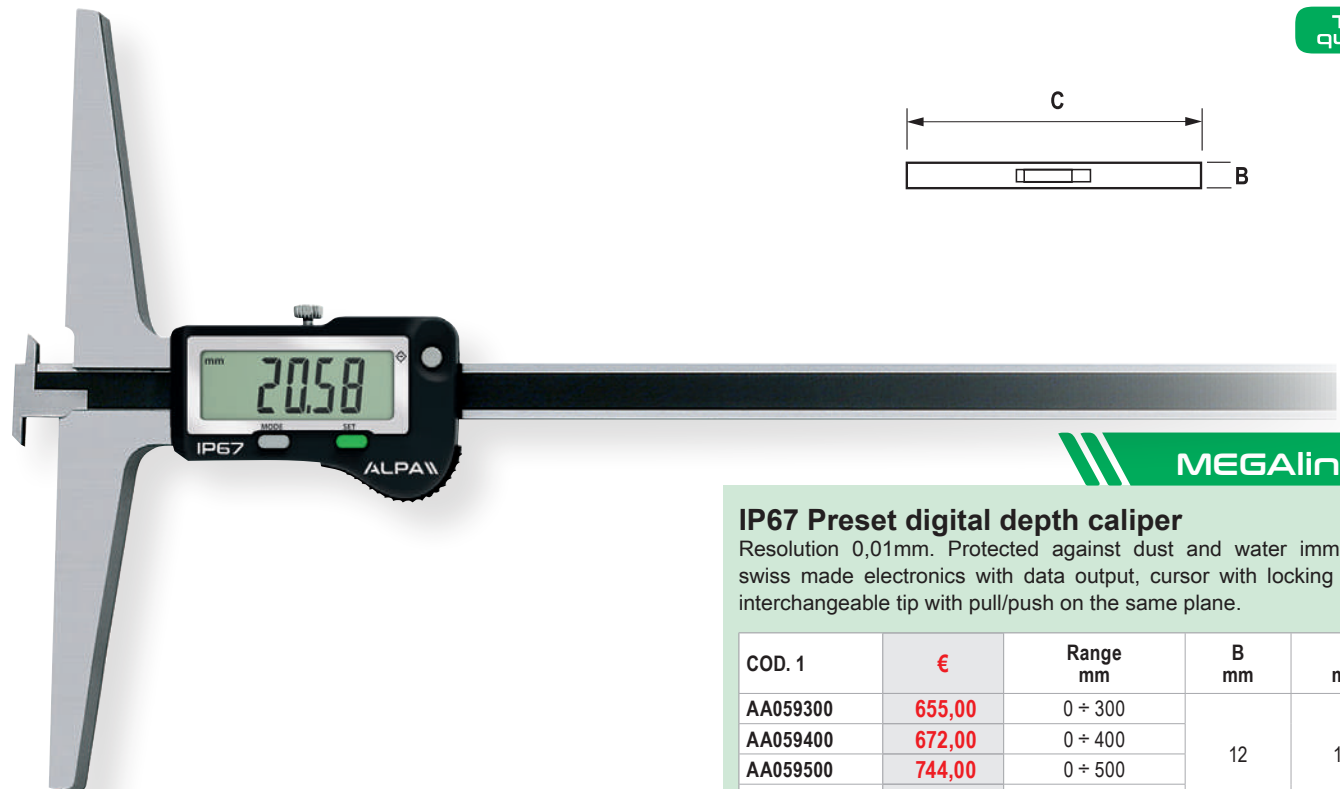
ACC20001		ACC20005	
ACC20002		ACC20006	
ACC20003		ACC20007	
ACC20004			

Movable bridge

Movable bridge for depth caliper AA064.

COD. 1	€	Length mm
ACC08001	519,00	400
ACC08002	600,00	500
ACC08003	776,00	600

TOP quality



MEGAline

IP67 Preset digital depth caliper

Resolution 0,01mm. Protected against dust and water immersion, swiss made electronics with data output, cursor with locking screw, interchangeable tip with pull/push on the same plane.

COD. 1	€	Range mm	B mm	C mm
AA059300	655,00	0 ÷ 300	12	150
AA059400	672,00	0 ÷ 400		
AA059500	744,00	0 ÷ 500		
AA059600	819,00	0 ÷ 600		



Digital depth caliper IP67 with preset

Resolution 0.01 mm. Swiss electronics with automatic stand-by. Protected from dust and liquid immersion, zero-setting at any position and slider with locking screw.

COD. 1	€	Range mm	Base mm	Length mm
AA107200	204,00	0 - 200	100	285
AA107300	299,00	0 - 300	150	390

TOP quality



IP67 Preset small bores depth digital caliper

Resolution 0,01mm. Protected against dust and water immersion, Swiss made electronics with data output, ON/OFF button, zero setting at any position, cursor with locking screw. Minimum bore diameter 6mm.

COD. 1	€	Range mm	Accuracy mm	Section mm	Pin mm
AA0831205,8	556,00	0 ÷ 120	± 0,02	4	5,8 x 0,6
AA0831207,8	619,00				7,8 x 0,9

MEGAline



TOP quality

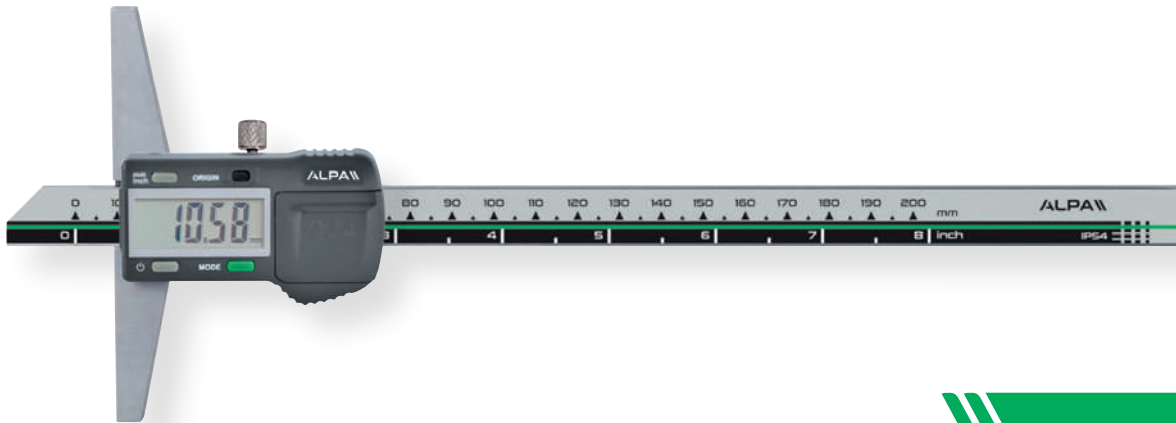
IP67 Preset digital depth caliper

Resolution 0,01mm. Digital depth with pushing tip. Protected against dust and water immersion, swiss made electronic with data output, ON/OFF button, zero setting at any position, cursor with locking screw.

COD. 1	€	Description	Length mm
ACC10200	180,00	Movable bridge	200
ACC10320	207,00		320

COD. 1	€	Range mm	B mm	C mm
AA054200	492,00	0 ÷ 200	10	105
AA054300	586,00	0 ÷ 300	12	150
AA054400	676,00	0 ÷ 400		
AA054500	746,00	0 ÷ 500		
AA054600	822,00	0 ÷ 600		

MEGAline



IP54 Digital depth caliper

0,01mm resolution. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.

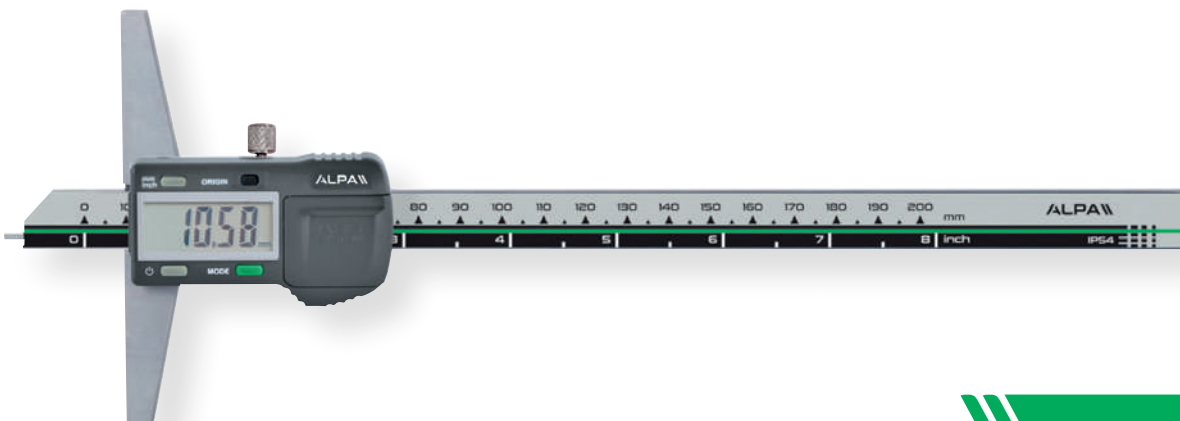
COD. 1	€	Range mm	Base mm	Length mm
AA101200	111,00	0 ÷ 200	100	285
AA101300	178,00	0 ÷ 300	150	390



IP54 Double hook digital depth caliper

0,01mm resolution. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.

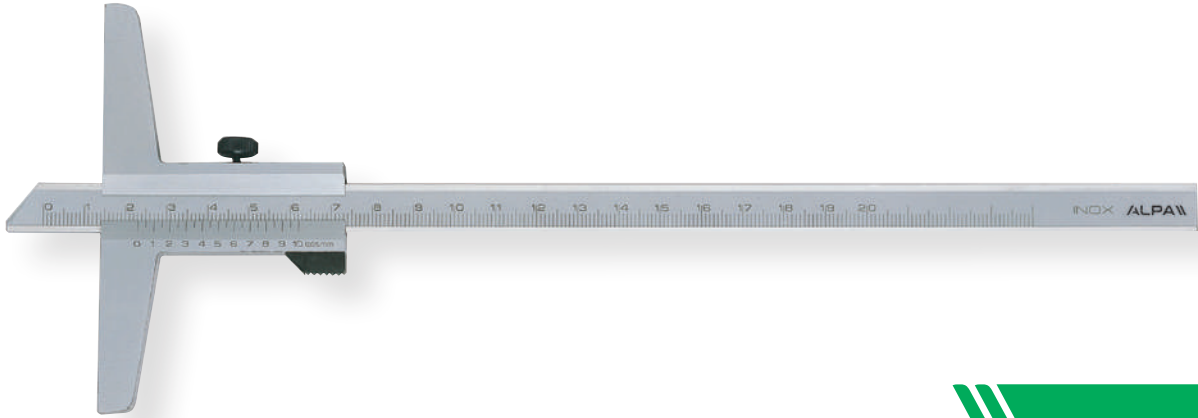
COD. 1	€	Range mm	Base mm	Length mm
AA103200	164,00	0 ÷ 200	100	285
AA103300	219,00	0 ÷ 300	150	390



IP54 Pin type digital depth caliper

0,01mm resolution. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.

COD. 1	€	Range mm	Base mm	Length mm
AA105200	139,00	0 ÷ 200	100	285
AA105300	191,00	0 ÷ 300	150	390



Depth caliper

Vernier 1/20, graduation 0,05mm. Cursor with locking screw. Accurate execution.

COD. 1	€	Range mm	Base mm	Length mm
AB055150	33,00	0 ÷ 150	100	250

COD. 1	€	Range mm	Base mm	Length mm
AB055200	45,00	0 ÷ 200	100	300
AB055300	93,00	0 ÷ 300	150	400
AB055400	106,00	0 ÷ 400		500
AB055500	148,00	0 ÷ 500		600
AB0551000	554,00	0 ÷ 1000	200	1160



Double hook depth caliper

Vernier 1/20, graduation 0,05mm - Locking screw for sliding jaw. Accurate execution.

COD. 1	€	Range mm	Base mm	Length mm
AB062200	106,00	0 ÷ 200	100	260
AB062300	124,00	0 ÷ 300		370



TOP quality



MEGAline

IP67 Digital caliper for inside grooves and seeger grooves

Resolution 0,01mm. Swiss made electronics. Protected against dust and water immersion, zero setting at any position, cursor with locking screw.

COD. 1	€	Range mm	Max groove depth mm	Section mm	Accuracy mm
AA086170	585,00	10 ÷ 170	3,5	16,5 x 4	± 0,03
AA086180	637,00	20 ÷ 180	8,5		

TOP quality

TOP quality



MEGALine

MEGALine

IP67 Digital caliper for internal/external grooves

Resolution 0,01 mm. Swiss made electronics. Protected against dust and water immersion, (ON/OFF) button, zero setting at any position, cursor with locking screw, interchangeable threaded caps. Article AA084250 supplied with hardened pins Ø2,5mm. Article AA084350, AA084450 supplied with hardened pins Ø3,5mm.

COD. 1	€	Range int./ext.mm	Accuracy mm	Section mm
AA084250	826,00	24 ÷ 250/0 ÷ 210	0,02	16,5x4,5
AA084350	947,00	42 ÷ 400/0 ÷ 320	0,03	17x5
AA084450	1.016,00	42 ÷ 500/0 ÷ 420		

For tips see on Alpa catalogue pag. A.40

IP54 Digital caliper for internal/external grooves

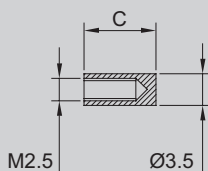
Resolution 0,01 mm. Swiss made electronics. Protected against dust, (ON/OFF) button, zero setting at any position, cursor with locking screw, interchangeable threaded caps. Provided with a couple of hardened pins Ø 3,5mm.

COD. 1	€	Range int./ext.mm	Accuracy mm	Section mm
AA081650	1.343,00	42 ÷ 650/0 ÷ 570	0,04	22x5

For tips see on Alpa catalogue pag. A.40

Adaptor for tips M2.5

Pair of adaptors needed for the use of the tips.



COD. 1	€	C mm
CC0458	32,00	8
CC04510	32,00	10
CC04512	55,00	12
CC04520	62,00	20



Inside grooves digital calipers

Resolution 0,01mm. ON/OFF button, zero setting at any position, preset function, cursor with locking screw and large LCD display.

COD. 1	€	Range mm	Jaws mm
AA189150	140,00	20 ÷ 150	30
AA189200	160,00	40 ÷ 200	70



Inside grooves digital caliper

Resolution 0,01mm. Matt-chrome finish scale, ON/OFF button, vernier with locking screw, presetting function keyboard.

COD. 1	€	Range mm	Max groove depth mm	Jaws mm
AA179150	143,00	14 ÷ 150	5	30
AA179200	173,00	15 ÷ 200		40
AA179300	234,00	17 ÷ 300	8	50
AA179500	328,00	35 ÷ 500		120



Digital caliper with interchangeable tips

Resolution 0,01mm. Matt-chrome finish scale, ON/OFF button, zero setting at any position, vernier with locking screw, presetting function keyboard.

COD. 1	€	Range mm	Jaws mm	Jaws thickness mm
AA176150	184,00	34 ÷ 150	50	5
AA176200	212,00	34 ÷ 200		

Tips to be ordered separately
See on Alpa catalogue pag. A.40



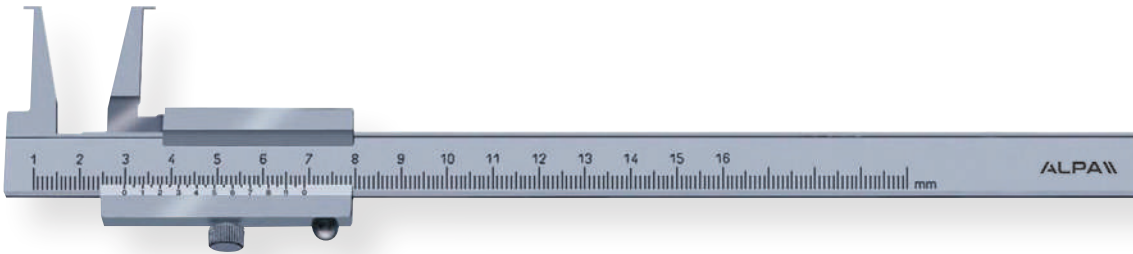
Digital caliper with interchangeable tips

Resolution 0,01mm. Matt-chrome finish scale, ON/OFF button, zero setting at any position and incremental zero setting (ABS), vernier with micrometric adjustment and locking screw, complete with a couple of M2.5 thread cylindrical probe tips.

COD. 1	€	Inside mm	External mm	Jaws mm
AA077300	415,00	40 ÷ 300	0 ÷ 300	75
AA077500	550,00	50 ÷ 500	0 ÷ 500	88

Tips to be ordered separately
See on Alpa catalogue pag. A.40





Inside groove vernier caliper

Stainless steel structure, 1/20 vernier gauge, 0,05mm reading, matt-chrome finish scale, vernier with locking-screw.

COD. 1	€	Range mm	Max groove depth mm	Jaws mm
AB067160	74,00	9,5 ÷ 160	3	25
AB067200	122,00	26 ÷ 200	7	60
AB067300	187,00	60 ÷ 300	10	100



Inside grooves digital caliper

Resolution 0,01mm. Stainless steel structure. ON/OFF button, zero setting at any position, cursor with locking screw and large LCD display. Suitable for measuring inside groove distances.

COD. 1	€	Range mm
AA188125	160,00	3 ÷ 125
AA188200	210,00	3 ÷ 200

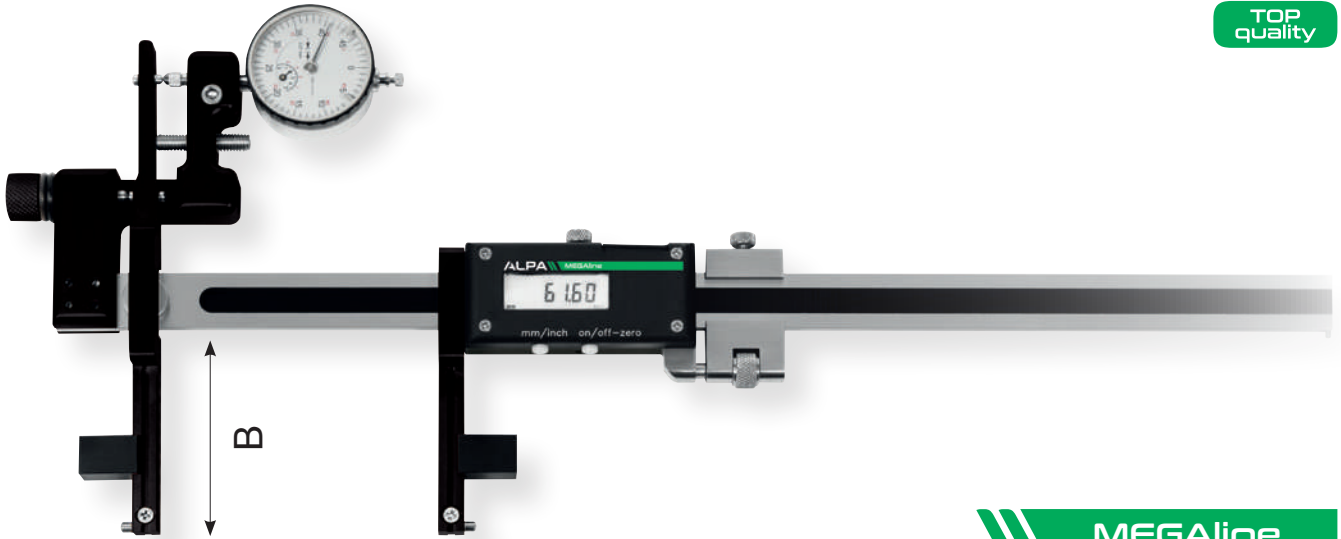


Long internal jaws digital caliper

Resolution 0,01mm. Matt-chrome finish scale, ON/OFF button, zero setting at any position, vernier with locking screw.

COD. 1	€	Range mm	Jaws mm
AA104150	145,00	0 ÷ 150	40
AA104200	165,00	0 ÷ 200	50
AA104300	230,00	0 ÷ 300	62

TOP quality



MEGAline

IP54 Universal digital caliper with dial gauge

Resolution 0,01mm - Protected against dust, water resistant, swiss made electronics, ON/OFF button, zero setting at any position, cursor with locking screw, fine adjustment, interchangeable threaded contacts. Provided with dial gauge 0,01 ø 40mm, couple of spherical threaded caps ø 3mm.

On request available in mechanical version.

COD. 1	€	Range mm	Section mm	Length mm	B mm
AA120200	1.780,00	20 ÷ 200 x 60	18 x 4	325	55
AA120300	2.314,00	24 ÷ 300 x 80	22 x 5	435	75
AA120500	2.472,00	24 ÷ 500 x 80		635	

For tips see on Alpa catalogue pag. A.40

TOP quality



MEGAline

IP54 Digital caliper with gauge

Digital caliper for inside/outside measurements with Spring System. Carbon fiber structure, swiss made electronic, ON/OFF button, zero setting at any position, cursor with locking screw, fine adjustment. Range Spring System 20mm. Provided with dial gauge 0,01mm, adaptor and couple of spherical caps ø 3mm (on demand disk jaws ø 20mm).

COD. 1	€	Range mm	Section mm	Length mm
AA125400	3.079,00	0 ÷ 400	30 x 20	550
AA125600	3.254,00	0 ÷ 600		750
AA125800	3.909,00	0 ÷ 800		950
AA1251000	4.356,00	0 ÷ 1000		1300
AA1251500	4.913,00	0 ÷ 1500	47 x 20	1800
AA1252000	6.169,00	0 ÷ 2000		2300
AA1252500	6.933,00	0 ÷ 2500		2800
AA1253000	7.304,00	0 ÷ 3000		3300

For tips see on Alpa catalogue pag. A.40



COD.3 3.650€
BA41002SET

Universal gauge (standard set)

Standard Universal Gauge. It includes, the Univesal Gauge: digital Indicator with cowl, measuring arms 50 mm (Pair), depth-stops (Pair), clamping inserts (Pair), spherical contacts (Pair). Dial indicator with Bluetooth available on request.

- Measuring range enlargeable up to 3000mm with extensions
- Digital or mechanical readout display
- Special anvil designs available P.O.A

Extension for universal gauge

Carbon fiber extension for Universal Gauge to increase measuring range.

COD. 1	€	Extension mm	Material
BA424150C	207,00	150	Steel
BA424500C	725,00	500	Carbon
BA4241000C	1.030,00	1000	



COD.3 6.084€
BA4000SET

Universal gauge (large set)

Large set for standard Universal Gauge. It includes, besides the Univesal Gauge itself: digital/analogue Indicator with cowl, measuring arms 50, 75, 100 mm (pair), 20 mm disc anvils for measuring grooves (pair), 12 mm disc anvils internal/external for measuring grooves (pair), shoulder anvils flat outside spigot diameter (pair), semi-cylindrical anvils for inside register diameters (pair), depth-stops (pair), clamping inserts (pair), flat measuring anvil (pair), spherical contacts (pair), mounting attachment (pair). Dial indicator with Bluetooth available on request.

- Measuring range enlargeable up to 3000mm with extensions
- Digital or mechanical readout display
- Special anvil designs available P.O.A

Extension for universal gauge

Carbon fiber extension for Universal Gauge to increase measuring range.

COD. 1	€	Extension mm	Material
BA424150C	207,00	150	Steel
BA424500C	725,00	500	Carbon
BA4241000C	1.030,00	1000	



MEGAline

Digital instrument for external grooves measurement

Resolution 0,01. Swiss electronics with preset. Interchangeable contacts.

COD. 1	€	Range mm	Max depth mm
BA35010080	939,00	26 ÷ 100	80
BA350100120	1.037,00		120
BA350150120	1.080,00	75 ÷ 150	120
BA350150160	1.365,00		160



MEGAline

Digital instrument for internal grooves measurement

Resolution 0,01. Swiss electronics with preset. Interchangeable contacts.

COD. 1	€	Range mm	Max depth mm
BA360075080	939,00	0 ÷ 75	80
BA360075120	1.037,00		120
BA360150120	1.080,00	75 ÷ 150	120
BA360150160	1.365,00		160



Analogue quick gauge

Outdoor item, carbide contacts.

Supplied with two pairs of contacts for flat, concave and convex surfaces.

COD. 1	€	Range mm	Resolution	Length mm	Height mm
BB39602150	917,00	0 ÷ 50	0,02	150	55
BB39602250	1.051,00			250	
BB39610150	821,00		0,1	150	
BB39610250	960,00			250	

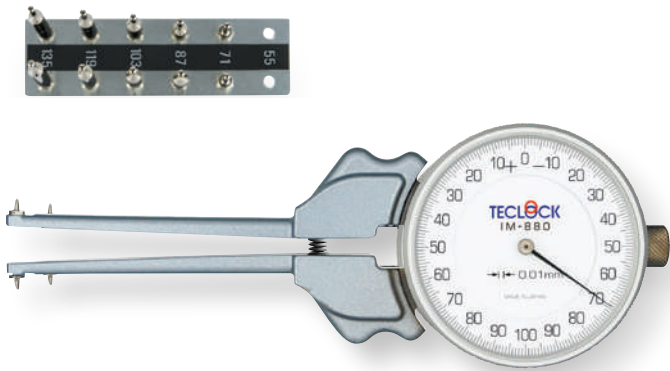


Analogue quick gauge

Indoor item, carbide contacts.

Supplied with two pairs of contacts for flat, concave and convex surfaces.

COD. 1	€	Range mm	Resolution	Length mm	Height mm
BB39902150	1.230,00	0 ÷ 50	0,02	150	25
BB39902250	1.417,00			250	
BB39910150	1.108,00		0,1	150	
BB39910250	1.296,00			250	



High precision fast internal dial snap gauge

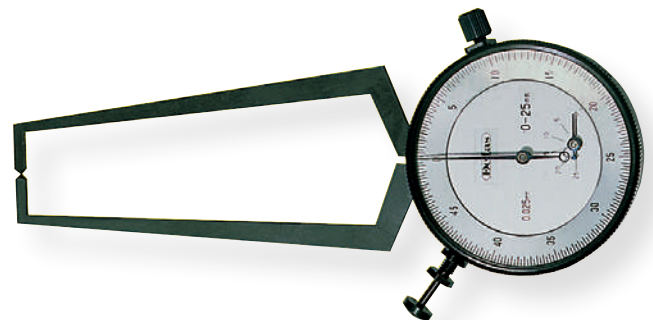
Resolution 0,01mm. Registered anti-shock 2mm movement for high accuracy measurement with gear mechanism. Cast iron frame, maximum stability and repeatability, large, easy to read dial. Interchangeable point anvils to measure deep and narrow grooves. Accuracy $\pm 0,01$ mm.

COD. 1	€	Range mm	Length mm	Spare contact points
BB36534	351,00	20 ÷ 35	165	7 set M2,5
BB36560	361,00	30 ÷ 62	170	5 set M3,5
BB365150	382,00	55 ÷ 153	183	6 set M3,5

Fast internal dial snap gauge

Resolution 0,01mm. Light weight frame, rotating dial, hardened stainless steel spherical contacts. Accuracy $\pm 0,04$ mm.

COD. 1	€	Range mm	Length mm	Spare contact points
BB360409	300,00	3 ÷ 9	40	7 set M2,5
BB3604018	183,00	6 ÷ 18		5 set M3,5



Fast internal dial snap gauge

Resolution 0,01mm. Light weight frame, rotating dial, hardened stainless steel spherical contacts. Accuracy $\pm 0,04$ mm.

COD. 1	€	Range mm	Length mm
BB3626430	273,00	10 ÷ 30	64
BB3626450	275,00	30 ÷ 50	
BB3626470	323,00	50 ÷ 70	

Fast external dial snap gauge

Resolution 0,025mm. Fast, accurate and easy use, hardened stainless steel measuring surfaces. Adjustable, accuracy $\pm 0,06$ mm.

COD. 1	€	Range mm	Length mm
BB37525	296,00	0 ÷ 25	80



IP67 Digital Bluetooth micrometer

Resolution 0,001 mm. Automatic wake-up by moving the measuring spindle. Auto sleep mode. IP67 protection rating. Bluetooth data transmission. Spindle feed of 1 mm per thimble revolution.

COD. 3	€	Range mm	Accuracy mm
BA015025	529,00	0 ÷ 25	± 0,001
BA015050	673,00	25 ÷ 50	
BA015075	719,00	50 ÷ 75	
BA015100	753,00	75 ÷ 100	± 0,002



IP65 digital micrometer

Resolution 0,001mm. Protection against dust and liquids, ABS function to return to absolute scale. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BA02525	115,00	0 ÷ 25	± 0,001
BA02550	140,00	25 ÷ 50	
BA02575	190,00	50 ÷ 75	
BA025100	235,00	75 ÷ 100	± 0,002
BA025125	245,00	100 ÷ 125	
BA025150	260,00	125 ÷ 150	

COD. 1	€	Range mm	Accuracy mm
BA025175	280,00	150 ÷ 175	± 0,003
BA025200	300,00	175 ÷ 200	
BA025225	319,00	200 ÷ 225	± 0,004
BA025250	346,00	225 ÷ 250	
BA025275	373,00	250 ÷ 275	± 0,005
BA025300	396,00	275 ÷ 300	



IP67 Digital micrometer

Automatic wake-up by moving the measuring spindle, sleeping mode after 20 min of no use (system S.I.S.). Position memorized in sleeping mode (system S.I.S.), absolute system. Protection rating IP67 according to IEC 60529, even connected, for heavy-duty work with coolants and lubricants. Quick displacement of measuring spindle 10mm/rotation. Adjustable measuring force 5N/10N (version BA01030), repeatability never reached before. Thimble in polyacetal-copolymer. Non rotating spindle.

COD. 3	€	Range mm	Dimensions mm
BA01230BT	490,00	0 ÷ 30	± 0,003
BA01266BT	690,00	30 ÷ 66	± 0,004
BA012102BT	870,00	66 ÷ 102	± 0,005

IMPORTANT: The positioning and quality of the rubber joint surrounding the battery cover must be checked after each battery change. The correct positioning of this rubber joint is essential to guarantee protection IP67.



IP65 Fast forward digital micrometer

Resolution 0,001mm. Protection against dust and liquids, ABS function to return to absolute scale, fast forward 2mm/revolution. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BA02025	152,00	0 ÷ 25	± 0,002
BA02050	196,00	25 ÷ 50	± 0,002
BA02075	227,00	50 ÷ 75	± 0,003
BA020100	252,00	75 ÷ 100	± 0,003

Micrometer holder

Cast iron stand and light alloy interchangeable clamp.



COD. 1	€	Dimensions mm
BC060B	26,00	170 x 120 x 120h



Exacto

Digital micrometer

Resolution 0,001mm. Painted frame.

COD. 1	€	Range mm	Resolution mm
BA02725	73,00	0 ÷ 25	± 0,001
BA02750	99,00	25 ÷ 50	



Exacto

IP65 One spherical contact digital micrometer

Resolution 0,001mm. Painted frame, protected against dust, water resistant, absolute and incremental measurement, automatic power off.

COD. 1	€	Range mm	Accuracy mm
BA07025	180,00	0 ÷ 25	± 0,002



Exacto

IP65 Spherical contacts digital micrometer

Resolution 0,001mm. Painted frame, protected against dust, water resistant, absolute and incremental measurement.

COD. 1	€	Range mm	Accuracy mm
BA06525	190,00	0 ÷ 25	± 0,002



IP65 Disk digital micrometer

Resolution 0,001mm. For gear measurement. Non-rotating spindle, painted frame, protected against dust and water. mm/inch conversion.

COD. 1	€	Range mm	Accuracy mm	Disk ømm
BA05025	215,00	0 ÷ 25	± 0,004	20
BA05050	242,00	25 ÷ 50		
BA05075	253,00	50 ÷ 75	± 0,005	
BA050100	270,00	75 ÷ 100		



IP65 Blade contacts digital micrometer

Resolution 0,001mm. Protection against dust and liquids, ABS function to return to absolute scale, fast forward 2mm/revolution. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BA06025	217,00	0 ÷ 25	± 0,002
BA06050	247,00	25 ÷ 50	
BA06075	267,00	50 ÷ 75	± 0,003
BA060100	280,00	75 ÷ 100	



Anvils 60°

n°	Metric thread mm	UN-UNC-UNF thread inch
1	0,4 - 0,5	64 - 48
2	0,6 - 0,9	44 - 28
3	1,0 - 1,75	24 - 14
4	2,0 - 3,0	13 - 9
5	3,5 - 5,0	8 - 5
6	5,5 - 7	4,5 - 3,5

IP65 Outside thread digital micrometer

Resolution 0,001mm. 60° anvil to measure pitch diameter and metric screw threads. Painted frame, protected against dust and water.

COD. 1	€	Range mm	Accuracy mm	Included set anvils 60°
BA08025	256,00	0 ÷ 25	± 0,002	1-2-3-4-5
BA08050	260,00	25 ÷ 50		2-3-4-5-6
BA08075	282,00	50 ÷ 75		3-4-5-6
BA080100	295,00	75 ÷ 100	± 0,003	4-5-6
BA080125	328,00	100 ÷ 125		
BA080150	354,00	125 ÷ 150		



IP65 Digital micrometer head

Resolution 0,001mm. Protected against dust, water resistant.

COD. 1	€	Range mm	Accuracy mm
BA08725	170,00	0 ÷ 25	± 0,003
BA08750	264,00	0 ÷ 50	± 0,005



IP65 Depth digital micrometer

Resolution 0,001 mm. Protected against dust, water resistant. Spherical contact of the extension.

COD. 1	€	Range mm	Accuracy mm	Base mm
BA09025	191,00	0 ÷ 25	± 0,003	100
BA090100	214,00	0 ÷ 100		
BA090200	252,00	0 ÷ 200		



Indicator snap micrometer

Resolution 0,001mm. Retractable anvil with indicator for accurate measurement of mass-produced parts. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BB04025	305,00	0 ÷ 25	± 0,003
BB04050	324,00	25 ÷ 50	
BB04075	385,00	50 ÷ 75	± 0,004
BB040100	488,00	75 ÷ 100	



Comparison fork

Moving anvil travel 3 mm. Hardened stainless steel. Ideal for checking cylindrical work pieces, shafts and measuring thickness and length. Dial gauge with shank Ø 8 mm to be ordered separately. Painted frame. HM contact surfaces.

Indicators not included.

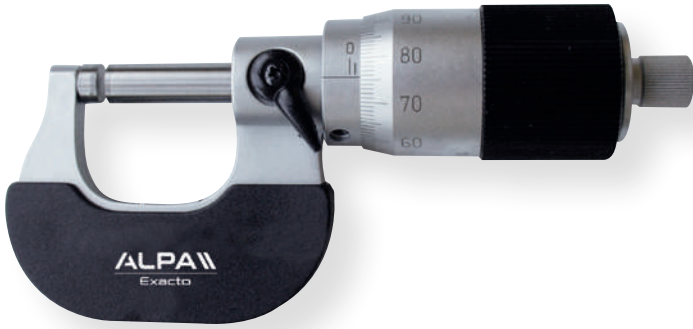
COD. 1	€	Range mm
BB07340	332,00	0 ÷ 40
BB07390	387,00	40 ÷ 90
BB073140	477,00	90 ÷ 140
BB073190	542,00	140 ÷ 190



IP54 Indicator snap micrometer

Resolution 0,001mm. Retractable anvil with indicator for accurate measurement of mass-produced parts. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BB04525	337,00	0 ÷ 25	± 0,001
BB04550	361,00	25 ÷ 50	
BB04575	396,00	50 ÷ 75	
BB045100	494,00	75 ÷ 100	



Exacto

Big thimble micrometer

Resolution 0,01mm. Forward 1mm/revolution. With big barrel. Painted frame. Sensitive friction positioned onto the feeding unit assay.

COD. 1	€	Range mm	Accuracy mm
BB03025	67,00	0 ÷ 25	± 0,004
BB03050	70,00	25 ÷ 50	
BB03075	78,00	50 ÷ 75	± 0,005
BB030100	99,00	75 ÷ 100	
BB030125	119,00	100 ÷ 125	± 0,006
BB030150	132,00	125 ÷ 150	
BB030175	148,00	150 ÷ 175	± 0,007
BB030200	160,00	175 ÷ 200	

Exacto

Outside micrometer

Resolution 0,01mm. Matt-chrome finish graduated unit, sensitive friction positioned onto the feeding unit assay, heat-insulating and painted frame cover.

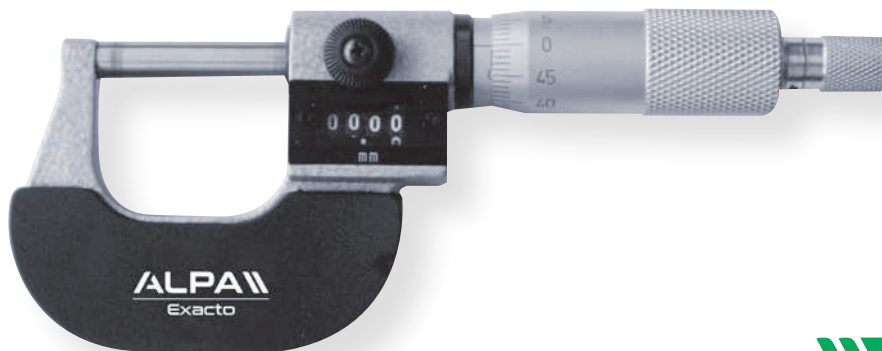
COD. 1	€	Range mm	Resolution mm
BB002025	34,00	0 ÷ 25	0,01
BB002050	52,00	25 ÷ 50	
BB002075	67,00	50 ÷ 75	
BB002100	71,00	75 ÷ 100	
BB002125	88,00	100 ÷ 125	
BB002150	99,00	125 ÷ 150	
BB002175	129,00	150 ÷ 175	
BB002200	167,00	175 ÷ 200	

BB00325	31,00	0 ÷ 25	0,01
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€ 31,00

BB00325

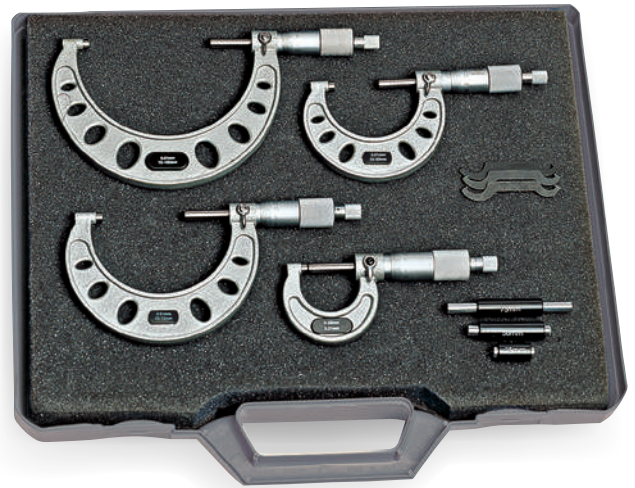


Exacto

Micrometer with counter

Resolution 0,01mm. Painted frame, mechanical digit counter for quick reading.

COD. 1	€	Range mm	Accuracy mm
BB01025	55,00	0 ÷ 25	± 0,004
BB01050	65,00	25 ÷ 50	
BB01075	75,00	50 ÷ 75	± 0,005
BB010100	80,00	75 ÷ 100	



Outside micrometer

Resolution 0,01mm. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BB01525	29,00	0 ÷ 25	± 0,004
BB01550	31,00	25 ÷ 50	
BB01575	33,00	50 ÷ 75	
BB015100	37,00	75 ÷ 100	± 0,005
BB015125	41,00	100 ÷ 125	± 0,006
BB015150	47,00	125 ÷ 150	
BB015175	58,00	150 ÷ 175	± 0,007
BB015200	61,00	175 ÷ 200	
BB015225	70,00	200 ÷ 225	± 0,008
BB015250	76,00	225 ÷ 250	
BB015275	84,00	250 ÷ 275	± 0,009
BB015300	91,00	275 ÷ 300	

Outside micrometers set

Resolution 0,01mm. Painted frame.

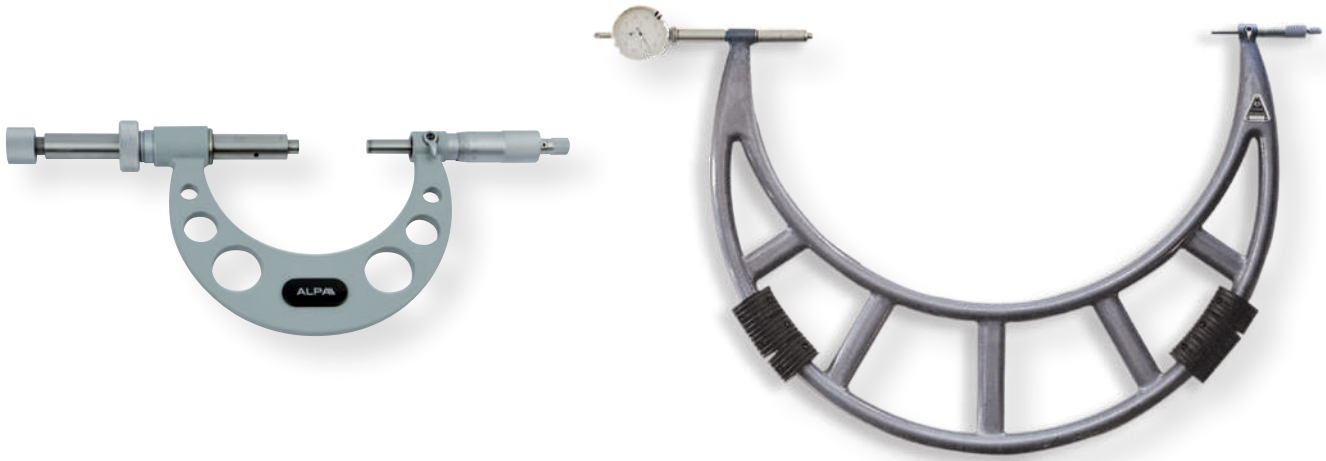
COD. 1	€	Range mm	Composition
BB020100SET	111,00	Set 0 ÷ 100	BB01525 - BB01550 BB01575 - BB015100
BB020150SET	190,00	Set 0 ÷ 150	BB01525 - BB01550 - BB01575 BB015100 - BB015125 - BB015150
BB020300SET	550,00	Set 0 ÷ 300	BB01525 - BB01550 - BB01575 BB015100 - BB015125 - BB015150 BB015175 - BB015200 - BB015225 BB015250 - BB015275 - BB015300

Micrometer holder

Cast iron stand and light alloy interchangeable clamp.

COD. 1	€	Dimensions mm
BC060B	26,00	170 x 120 x 120h





Outside micrometer

Resolution 0,01mm. Wide measuring range and high accuracy, suitable for mass measurement. Dial gauge with resolution 0,01mm, measuring range 0-5mm, maximum force 10N. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BB007100	250,00	0 ÷ 100	± 0,006
BB007200	347,00	100 ÷ 200	± 0,007
BB007300	415,00	200 ÷ 300	± 0,008

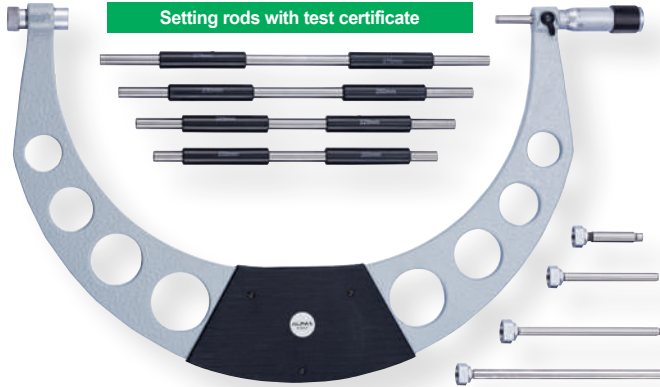
Wooden packaging non-contestable in case of breakage during transport

Compatible also with:

COD. 1	€	Range mm	Resolution mm	Version
CA022ST	420,00	12,5	0,01	Standard

COD. 1	€	Range mm	Accuracy mm
BB007400	450,00	300 ÷ 400	± 0,009
BB007500	540,00	400 ÷ 500	± 0,010
BB007600	597,00	500 ÷ 600	± 0,011
BB007700	699,00	600 ÷ 700	± 0,012
BB007800	799,00	700 ÷ 800	± 0,013
BB007900	899,00	800 ÷ 900	± 0,014
BB0071000	1.050,00	900 ÷ 1000	± 0,015

Wooden packaging non-contestable in case of breakage during transport



Exacto

Outside micrometer

0,01mm Resolution. Matt-chrome finish graduated spindle and thimble, sensitive friction positioned onto the feeding unit assy, heat-insulating frame cover. Painted frame.

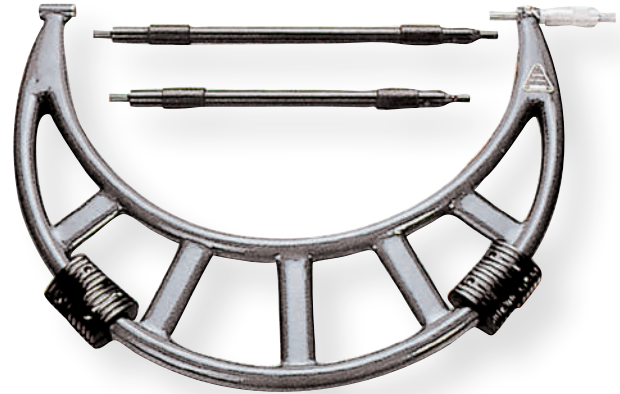
COD. 1	€	Range mm	Resolution mm	Weight kg
BB004300	407,00	200 ÷ 300	0,01	1,7
BB004400	690,00	300 ÷ 400		2,5
BB004500	756,00	400 ÷ 500		3

Light weight outside micrometer

Resolution 0,01mm. Cast aluminum frame. Matt-chrome finish graduated spindle and thimble, sensitive friction positioned onto the feeding unit assy, heat-insulating frame cover.

COD. 1	€	Range mm	Resolution mm	Weight kg
BB008600	1.062,00	500 ÷ 600	0,01	3,7
BB008700	1.442,00	600 ÷ 700		4,3
BB008800	1.689,00	700 ÷ 800		4,6
BB008900	1.936,00	800 ÷ 900		5,6
BB0081000	2.291,00	900 ÷ 1000		6,8

Wooden packaging non-contestable in case of breakage during transport



Setting rods with test certificate available up to 900 ÷ 1000

Outside micrometer

Resolution 0,01mm. Satin-chromed graduated spindle and thimble, sensitive friction, stop lever. Complete with zero-setting standards. Painted frame.

COD. 1	€	Range mm	Accuracy mm
BB006100	148,00	0 ÷ 100	± 0,007
BB006200	230,00	100 ÷ 200	± 0,008
BB006300	243,00	200 ÷ 300	± 0,009
BB006400	299,00	300 ÷ 400	± 0,011
BB006500	332,00	400 ÷ 500	± 0,013

Wooden packaging non-contestable in case of breakage during transport

COD. 1	€	Range mm	Accuracy mm
BB006600	411,00	500 ÷ 600	± 0,015
BB006700	455,00	600 ÷ 700	± 0,016
BB006800	530,00	700 ÷ 800	± 0,018
BB006900	639,00	800 ÷ 900	± 0,020
BB0061000	714,00	900 ÷ 1000	± 0,020
BB0061200	1.238,00	1000 ÷ 1200	± 0,020
BB0061400	1.382,00	1200 ÷ 1400	± 0,024
BB0061600	1.491,00	1400 ÷ 1600	± 0,028
BB0061800	1.653,00	1600 ÷ 1800	± 0,031
BB0062000	1.847,00	1800 ÷ 2000	± 0,034

Wooden packaging non-contestable in case of breakage during transport



Inside micrometer with extension rods

Resolution 0,01mm. Tungsten carbide tipped. Provided with wooden case.

COD. 1	€	Range mm	Extension rods mm	Composition mm
BB25063	92,00	50 ÷ 63	-	Only micrometer head
BB250150	108,00	50 ÷ 150	16	13 - 25 - 50
BB250300	135,00	50 ÷ 300		13 - 25 - 50 (2 pz) - 100
BB250600	193,00	50 ÷ 600		13 - 25 - 50 (2 pz) - 150 - 200
BB2501000	486,00	50 ÷ 1000		13 - 25 - 50 (2 pz) - 150 - 200 - 300
BB2501500	857,00	50 ÷ 1500		13 - 25 - 50 - 100 (2 pz) - 150 - 200 (2 pz) - 300 (2 pz)
BB2502000	974,00	150 ÷ 2000		25 - 50 (2 pz) - 100 - 200 (2 pz) - 400 (3 pz)
BB2503000	1.790,00	1000 ÷ 3000		50 - 100 (2 pz) - 200 - 500 - 1000 (2 pz)

1000 extension for BB2503000 available



Analogue bore gauge

Bowers XT Analogue Bore Gauges are a perfect solution for accurate bore measurement. Their wide application range, 2-300mm, rugged construction and easy read scale, ensure both accuracy and ease of use. XT measuring heads and setting rings are supplied with UKAS certification.

2-6mm 2 point, 6-300mm 3 point measurement.

Blind bore measurement between 2-6mm and from 12,5 to 300 mm.

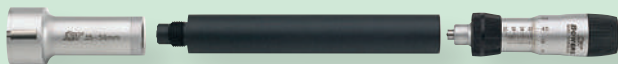


SINGLE GAUGE SUPPLIED WITH SETTING RING AND UKAS CERTIFICATES

COD. 1	€	Range mm	Accuracy mm	Depth mm	Ring mm
BB3002,5	996,00	2 ÷ 2,5	± 0,002	9	2,50
BB3003	998,00	2,5 ÷ 3			
BB3004	891,00	3 ÷ 4		12	4
BB3005	891,00	4 ÷ 5			
BB3006	801,00	5 ÷ 6		18	5
BB3008	406,00	6 ÷ 8			
BB30010	374,00	8 ÷ 10		58	8
BB30012,5	374,00	10 ÷ 12,5			
BB30016	374,00	12,5 ÷ 16		62	12,50
BB30020	379,00	16 ÷ 20			
BB30025	422,00	20 ÷ 25	66	20	
BB30035	597,00	25 ÷ 35			
BB30050	610,00	35 ÷ 50	80	35	
BB30065	684,00	50 ÷ 65			
BB30080	731,00	65 ÷ 80	± 0,0025	80	65
BB300100	927,00	80 ÷ 100			
BB300125	931,00	100 ÷ 125	± 0,003	100	80
BB300150	1.077,00	125 ÷ 150			

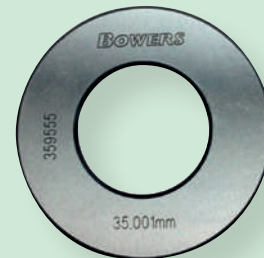
BORE GAUGE SET WITH UKAS CERTIFICATE

COD. 1	€	Range mm	Micrometer n°	Ring n°
BB3103SET	1.692,00	2 ÷ 3	2	1
BB3106SET	2.292,00	3 ÷ 6	3	2
BB31010SET	627,00	6 ÷ 10	2	1
BB31020SET	1.000,00	10 ÷ 20	3	2
BB31050SET	1.588,00	20 ÷ 50		
BB310100SET	2.139,00	50 ÷ 100	2	1
BB310150SET	1.696,00	100 ÷ 150		
BB310200SET	2.347,00	150 ÷ 200		



SINGLE GAUGE WITH UKAS CERTIFICATE WITHOUT SETTING RING

BB300175W	1.251,00	150 ÷ 175	± 0,0035	115	175
BB300200W	1.463,00	175 ÷ 200			
BB300225W	1.554,00	200 ÷ 225	± 0,004	118	225
BB300250W	1.613,00	225 ÷ 250			
BB300275W	1.716,00	250 ÷ 275	± 0,0045	118	275
BB300300W	1.816,00	275 ÷ 300			

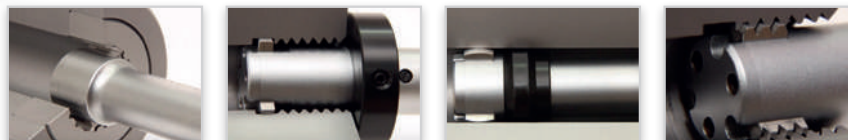


EXTENSIONS

COD. 1	€	Length mm	For heads mm
BC07510	125,00	63	6 ÷ 10
BC07512,5	125,00	76	10 ÷ 12,5
BC07520	125,00	100	12,5 ÷ 20
BC07550	182,00	150	20 ÷ 50
BC075300	203,00		50 ÷ 300

SETTING RINGS WITH UKAS CERTIFICATE

COD. 1	€	UKAS certified setting rings mm
BC080175	496,00	175
BC080225	771,00	225
BC080275	968,00	275



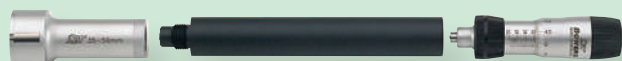
IP67 Bluetooth digital bore gauge micrometer

Bowers XT Digital internal micrometers give the operator the advantage of traditional quality ratchet gauges allied to advanced IP67 electronics. The extended mechanical travel of the XT range means that special heads can be also manufactured to satisfy customer's most awkward measuring problems. Measuring heads for threads, splines slots, grooves, deep-holes and many more applications are available on request. The Bowers XT range of internal micrometers can be supplied as individual instruments or in complete sets. All XT instruments give the customer the advantage of extended measuring range with fixed anvils and UKAS certification of both measuring heads and setting rings as standard. **2-6mm 2 point, 6-300mm 3 point measurement.**
Blind bore measurement between 2-6mm and from 12,5 to 300 mm.



BORE GAUGE SET WITH UKAS CERTIFICATE

COD. 1	€	Range mm	Heads n°	Ring n°
BA2126SET	3.502,00	2 ÷ 6	5	3
BA21210SET	1.392,00	6 ÷ 10	2	1
BA21220SET	1.865,00	10 ÷ 20	3	2
BA21250SET	2.552,00	20 ÷ 50		
BA212100SET	2.833,00	50 ÷ 100		
BA212150SET	2.346,00	100 ÷ 150	2	1
BA212200SET1	2.936,00	150 ÷ 200		
BA212200SET2	4.728,00	100 ÷ 200		



EXTENSIONS

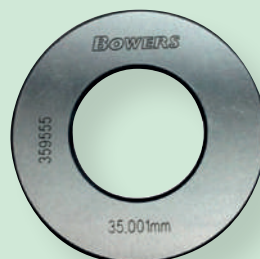
COD. 1	€	Length mm	For heads mm
BC07510	125,00	63	6 ÷ 10
BC07512,5	125,00	76	10 ÷ 12,5
BC07520	125,00	100	12,5 ÷ 20
BC07550	182,00	150	20 ÷ 50
BC075300	203,00		50 ÷ 300

SINGLE GAUGE SUPPLIED WITH SETTING RING AND UKAS CERTIFICATES

COD. 1	€	Range mm	Accuracy mm	Depth mm	Ring mm	
BA2113	1.711,00	2,5 ÷ 3	± 0,002	9	2,50	
BA2114	1.711,00	3 ÷ 4		12	4	
BA2115	1.696,00	4 ÷ 5		18	5	
BA2116	1.696,00	5 ÷ 6		58	8	
BA2118	1.097,00	6 ÷ 8			12,50	8
BA21110	1.097,00	8 ÷ 10				8
BA21112,5	1.112,00	10 ÷ 12,5		62	12,50	
BA21116	1.221,00	12,5 ÷ 16			20	
BA21120	1.221,00	16 ÷ 20		66	20	
BA21125	1.454,00	20 ÷ 25			35	
BA21135	1.609,00	25 ÷ 35	80	35		
BA21150	1.667,00	35 ÷ 50		65		
BA21165	1.839,00	50 ÷ 65	± 0,0025	100	65	
BA21180	1.839,00	65 ÷ 80			80	
BA211100	1.844,00	80 ÷ 100	± 0,003	100	80	
BA211125	2.097,00	100 ÷ 125		115	125	
BA211150	2.175,00	125 ÷ 150				

SINGLE GAUGE WITH UKAS CERTIFICATE WITHOUT SETTING RING

BA211175W	2.155,00	150 ÷ 175	± 0,0035	115	175
BA211200W	2.049,00	175 ÷ 200	± 0,004	118	225
BA211225W	2.503,00	200 ÷ 225			275
BA211250W	2.793,00	225 ÷ 250	± 0,0045		275
BA211275W	2.922,00	250 ÷ 275			
BA211300W	3.229,00	275 ÷ 300			



Bluetooth connection device
For pc or laptop data transmission



98€
BC076BLE

SETTING RINGS WITH UKAS CERTIFICATE

COD. 1	€	UKAS certified setting rings mm
BC080175	496,00	175
BC080225	771,00	225
BC080275	968,00	275



IP67 Bluetooth digital pistol grip bore gauge

Digital pistol-grip micrometer bore gauge. Advanced trigger action, Fast and accurate measurement. IP67 electronics, simple 2-button operation, 4 preset memories, tolerances. Blind bore measurement above 12.5mm. Supplied with wooden case. Setting rings and UKAS certificates included.

2-6mm 2 point, 6-300mm 3 point measurement.

Blind bore measurement between 2-6mm and from 12,5 to 300 mm.



SMALL SET WITH UKAS CERTIFICATE

COD. 1	€	Range mm	Heads n°	Ring n°
BA2423SET	4.318,00	2 ÷ 6	5	3
BA24210SET	1.463,00	6 ÷ 10	2	1
BA24220SET	1.888,00	10 ÷ 20	3	2
BA24250SET	2.451,00	20 ÷ 50		
BA242100SET	2.739,00	50 ÷ 100	2	2
BA242150SET	2.454,00	100 ÷ 150		
BA242200SET	3.260,00	150 ÷ 200		

LARGE SET WITH UKAS CERTIFICATE

COD. 1	€	Range mm	Heads n°	Ring n°
BA24220SETL	2.262,00	6 ÷ 20	5	3
BA242100SETL	4.031,00	20 ÷ 100	6	
BA242200SETL	5.420,00	100 ÷ 200	4	2



EXTENSIONS

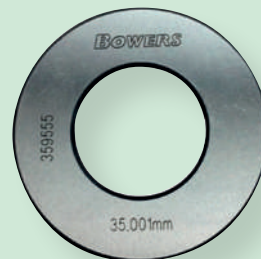
COD. 1	€	Lenght mm	Heads mm
BC07510	125,00	63	6 ÷ 10
BC07512,5	125,00	76	10 ÷ 12,5
BC07520	125,00	100	12,5 ÷ 20
BC07550	182,00	150	20 ÷ 50
BC075300	203,00		50 ÷ 300

SINGLE GAUGE SUPPLIED WITH SETTING RING AND UKAS CERTIFICATES

COD. 1	€	Range mm	Accuracy mm	Depth mm	Ring mm
BA2258	1.236,00	6 ÷ 8	± 0,002	58	8
BA22510	1.298,00	8 ÷ 10			12,50
BA22512,5	1.318,00	10 ÷ 12,5			20
BA22516	1.339,00	12,5 ÷ 16		66	35
BA22520	1.380,00	16 ÷ 20			65
BA22525	1.463,00	20 ÷ 25		80	80
BA22535	1.597,00	25 ÷ 35	85		
BA22550	1.638,00	35 ÷ 50	± 0,0025	100	125
BA22565	1.679,00	50 ÷ 65			175
BA22580	1.679,00	65 ÷ 80	± 0,003	100	175
BA225100	1.833,00	80 ÷ 100			175
BA225125	1.875,00	100 ÷ 125	± 0,0035	100	175
BA225150	1.957,00	125 ÷ 150			175
BA225175	2.215,00	150 ÷ 175	± 0,0035	100	175
BA225200	2.318,00	175 ÷ 200			175

SINGLE GAUGE WITH UKAS CERTIFICATE WITHOUT SETTING RING

COD. 1	€	Range mm	Accuracy mm	Depth mm	Ring mm
BA225225W	2.524,00	200 ÷ 225	± 0,004	100	225
BA225250W	2.637,00	225 ÷ 250		103	275
BA225275W	2.956,00	250 ÷ 275	± 0,0045	103	275
BA225300W	3.296,00	275 ÷ 300			275



Bluetooth connection device
For pc or laptop data transmission



98€
BC076BLE

SETTING RINGS WITH UKAS CERTIFICATE

COD. 1	€	UKAS certified setting rings mm
BC080175	496,00	175
BC080225	771,00	225
BC080275	968,00	275



Bowers microgauge set

The new MicroGauge 2-point bore gauging system has been designed specifically for the measurement of small bores between 1.0-6.0mm.

- New easy to read slimline digital display
- Switchable resolution 0,01/0,001/0,0005mm
- Proximity data output
- Repeatability: 0,001mm
- UKAS-certificates as standard with all setting rings
- Hard-chromed ball-contacts



SMALL SET WITH RING AND UKAS CERTIFICATE

COD. 1	€	Range mm
BA270155SET	2.759,00	0,95 ÷ 1,55
BA270245SET	1.683,00	1,50 ÷ 2,45
BA270425SET	2.665,00	2,25 ÷ 4,25
BA270635SET	2.002,00	3,65 ÷ 6,35
BA2701035SET	3.065,00	6,15 ÷ 10,35

Set: Including digital readout, measuring heads, depth stop and setting rings with UKAS certificate.

LARGE SET WITH RING AND UKAS CERTIFICATE

COD. 1	€	Range mm
BA270245SETL	3.497,00	0,95 ÷ 2,45
BA270425SETL	3.289,00	1,50 ÷ 4,25
BA270635SETL	3.296,00	2,25 ÷ 6,35

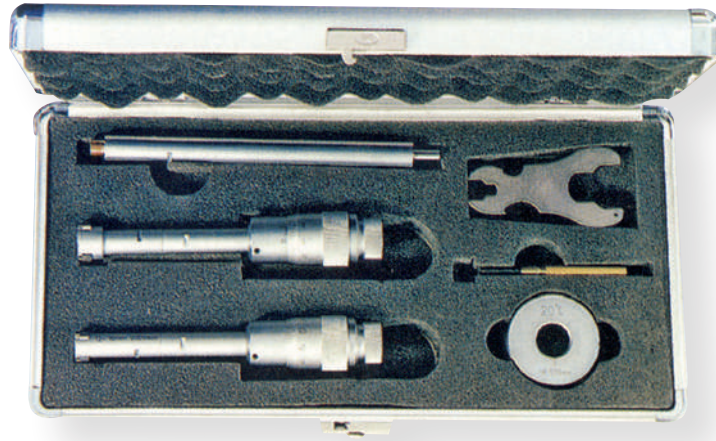
Set: Including digital readout, measuring heads, depth stop and setting rings with UKAS certificate.

Compact size for a great versatility of use



Depth stop included





Three points internal micrometers set

Complete with zero-setting rings and extension (100mm -150mm).

COD. 1	€	Range mm	Single instruments mm	Rings ø mm	Extension mm
BB27212SET	633,00	6 ÷ 12	6-8/8-10/10-12	6/8/10	100
BB27220SET	406,00	12 ÷ 20	12-16/16-20	16	150
BB27240SET	742,00	20 ÷ 40	20-25/25-30/30-40	25/40	
BB272100SET	1.450,00	40 ÷ 100	40-50/50-63/62-75/75-88/87-100	40/62/87	



Three points inside micrometer

Measurement range reading 6-12mm 0,001, over 0,005mm. Graduated feeding unit assay with sensible friction, satin-chromed version. Complete with setting ring and extension rod.

COD. 1	€	Range mm	Accuracy mm	Ring ø mm	Extension mm
BB2708	258,00	6 ÷ 8	± 0,004	6	100
BB27010	258,00	8 ÷ 10		8	
BB27012	258,00	10 ÷ 12		10	
BB27016	220,00	12 ÷ 16		150	16
BB27020	220,00	16 ÷ 20			25
BB27025	280,00	20 ÷ 25			40
BB27030	280,00	25 ÷ 30	± 0,005		62
BB27040	330,00	30 ÷ 40		87	
BB27050	341,00	40 ÷ 50			
BB27063	345,00	50 ÷ 63			
BB27075	365,00	62 ÷ 75			
BB27088	400,00	75 ÷ 88			
BB270100	420,00	87 ÷ 100			



Three points inside micrometer

Graduated feeding unit assay with sensible friction, chromed version.

COD. 1	€	Range mm	Accuracy mm
BB271125	460,00	100 ÷ 125	± 0,005
BB271150	460,00	125 ÷ 150	
BB271175	470,00	150 ÷ 175	
BB271200	470,00	175 ÷ 200	± 0,010
BB271225	640,00	200 ÷ 225	
BB271250	640,00	225 ÷ 250	
BB271275	650,00	250 ÷ 275	
BB271300	650,00	275 ÷ 300	



TOP quality

MEGArod

IP67 Digital indicator

Tough construction, water resistant. IP67 protection according to IEC 60529, even connected. Technology with configurable menus. Broad choice of functions (min/max, delta, tol, factor, preset, auto off, ecc.). Automatic wake up and sleeping mode, absolute system. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CA01012,5	620,00	0 ÷ 12,5	0,001	59,50
CA01025	680,00	0 ÷ 25		
CA01050	1.180,00	0 ÷ 50		



TOP quality

MEGArod

IP54 Digital indicator

Tough construction, water and coolant resistant. Technology with configurable menus. Broad choice of functions (min/max, delta, tol, factor, preset, auto off, etc.). Automatic wake-up and sleeping mode, absolute system. Cylindrical mounting \varnothing 8mm. Cable data transmission.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CA01512,5C	430,00	0 ÷ 12,5	0,01	59,50
CA01512,5M	540,00		0,001	
CA01525C	480,00	0 ÷ 25	0,01	
CA01525M	580,00		0,001	
CA01550C	730,00	0 ÷ 50	0,01	
CA01550M	770,00		0,001	



TOP quality

MEGArod

IP54 Digital indicator

Tough construction, water and coolant resistant. Technology with configurable menus. Automatic wake-up and sleeping mode, absolute system. Cylindrical mounting \varnothing 8mm. Cable data transmission.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CA01812,5C	360,00	0 ÷ 12,5	0,01	59,50
CA01812,5M	410,00		0,001	
CA01825C	390,00	0 ÷ 25	0,01	
CA01825M	450,00		0,001	
CA01850C	675,00	0 ÷ 50	0,01	
CA01850M	750,00		0,001	



5 Function

Digital dial indicator with large display

Zero setting at any position. Cylindrical mounting \varnothing 8mm.

MILLESIMAL

COD. 1	€	Range mm	Resolution mm
CA02110	119,00	0 ÷ 12,5	0,001

CENTESIMAL

COD. 1	€	Range mm	Resolution mm
CA02010	99,00	0 ÷ 12,5	0,01
CA02025	138,00	0 ÷ 25	
CA02050	242,00	0 ÷ 50	



5 Function

Digital dial gauge IP67

Digital dial gauge IP67 Bluetooth extremely compact and versatile; dial \varnothing 45mm. Swiss made electronics with integrated Bluetooth data transmission and automatic stand-by; additional power data output. Sturdy construction, IP67 protection in accordance with IEC 60529. Technology with customisable menus. Great choice of functions (min/max, delta, tolerances, factors, presets, auto off, etc.). Absolute function. Cylindrical attachment \varnothing 8mm.

CODE 1	€	Measuring range mm	Resolution mm	Version
CA022ST	420,00	12.5	0.01	Standard
CA022TP	410,00			Flat head
CA022AU	435,00			Shockproof
CA023ST	565,00		0.001	Standard
CA023TP	555,00			Flat head
CA023AU	580,00			Shockproof



CB00510
Anti-shock
mechanism



CB00605

Analogic dial indicator

Resolution 0,01mm - Metal casing and ring nut, steel tips. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CB01305	29,00	0 ÷ 5	0,01	40
CB01410	25,00	0 ÷ 10	0,01	58
CB01425	37,00	0 ÷ 25	0,01	
CB01430	57,00	0 ÷ 30	0,01	
CB02150	82,00	0 ÷ 50	0,01	80

Analogic dial indicator

Metal casing and ring nut, shock-proof mechanism only for CB00510. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CB00605	47,00	0 ÷ 5	0,01	40

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CB00510	36,00	0 ÷ 10	0,01	58
CB00525	72,00	0 ÷ 25		
CB00530	78,00	0 ÷ 30		



TECLOCK®

CB01010ST
Back with lug
CB01010STF
Flat back



Analogic dial indicator

Anti-shock mechanism. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	Force N	\varnothing mm
CB01010ST	43,00	0 ÷ 10	0,01	1,2	56
CB01010STF	43,00			1,2	55

Analogic dial indicator

Metal casing and ring nut, tolerance indicators.

COD. 1	€	Range mm	Resolution mm
CB01210ST	29,00	0 ÷ 10	0,01

TECLOCK®



Analog dial indicator

Anti-shock mechanism. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	Force N	\varnothing mm
CB01010WP	112,00	0 \div 10	0,01	1,5	58



Analog dial indicator

Movement on jewel bearings, hardened stainless steel stem and spindle. Double dial reading. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CB00750	171,00	0 \div 50	0,01	88



Analog dial indicator

Range 5mm. Stainless steel stem and hardened steel tip. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

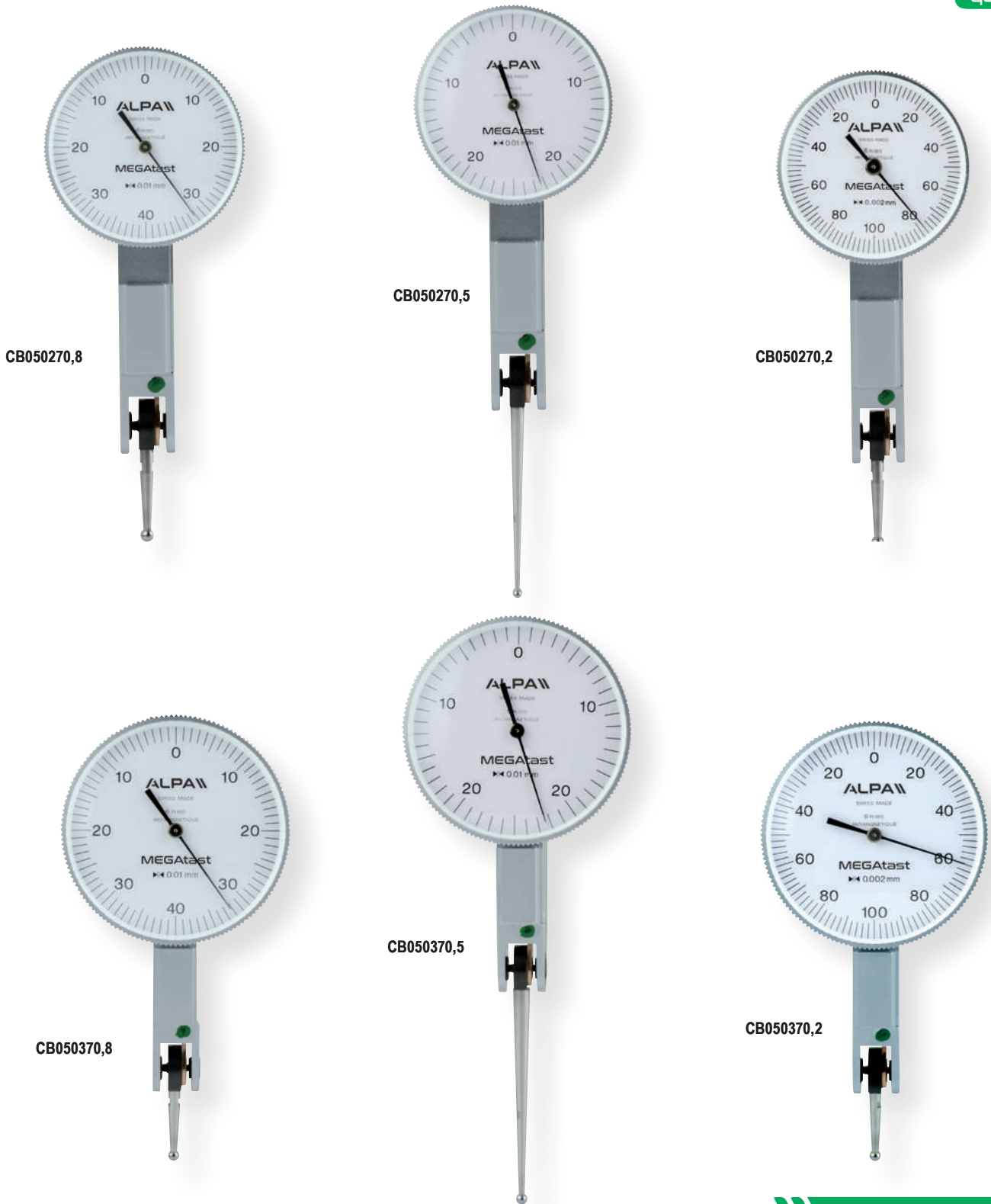
COD. 1	€	Range mm	Resolution mm	\varnothing mm
CB0560	106,00	0 \div 5	0,001	58



Analog dial indicator \varnothing 58mm

Range 1mm. Stainless steel stem and hardened steel tip. Accuracy according to UNI4180. Cylindrical mounting \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	\varnothing mm
CB0261	83,00	0 \div 1	0,001	58



Dial test indicators

Swiss made high quality lever dial indicators (according to DIN 2270A). Automatic reversal of the stylus direction of rotation. Rotable bezel for zero setting. High accuracy movement mounted on 6 ruby bearings. Carbide ball stylus, adjustable within 270° and interchangeable. Robust one-piece body featuring dovetail snug \varnothing 8mm.

COD. 1	€	Range mm	Resolution mm	\varnothing mm	Length mm
CB050270,8	115,00	0 ÷ 0,8	0,01	27,4	12
CB050270,2	126,00	0 ÷ 0,2	0,002		
CB050270,5	142,00	0 ÷ 0,5	0,01		36
CB050370,8	132,00	0 ÷ 0,8	0,01	37	12
CB050370,2	156,00	0 ÷ 0,2	0,002		
CB050370,5	173,00	0 ÷ 0,5	0,01		36



CB052080129
CB052080129L
CB052080138
CB052080138L



CB0520200229
CB0520200238

Dial test indicators

High quality and reliability dial lever test indicator. Rotable bezel for zero setting. Dove tail snug.

COD. 1	€	Range mm	Resolution mm	Ø mm	Length mm
CB052080129	80,00	0 ÷ 0,8	0,01	29	11,9
CB052080129L	110,00				33,6
CB052080138	93,00			38	11,9
CB052080138L	129,00				33,6
CB0520200229	131,00	0 ÷ 0,2	0,002	29	12,9
CB0520200238	136,00			38	



CC070D



CC070F



CC070A



CC070B



CC070C



CC070E

Accessories for dial test indicators

COD. 1	€	Description
CC070D	23,00	Centering shoulder perpendicular model with cylindrical rod ø 8 x 25mm, clamping point mounting rod and dovetail clamp ø 4mm
CC070F	76,00	Universal dial support ø 8 x 40mm

COD. 1	€	Description
CC070A	15,00	Fixing shank with dovetail clamp ø 4mm
CC070B	15,00	Fixing shank with dovetail clamp ø 8mm
CC070C	80,00	Long swivel holder with cylindrical shank and dovetail clamp ø 8 x 90mm
CC070E	88,00	Long swivel holder with cylindrical shank and dovetail clamp as well as fine adjustment ø 8 x 125mm



KIT 130€
CD021M80 + CB00510



KIT 222€
CD016ME + CB00510



Magnetic stand with articulated key

Dial indicator stand, rods \varnothing 14 mm, central locking, gauge holder \varnothing 8 mm, magnetic base M8 with fine adjustment.

COD. 1	€	Locking	Holding power Kg	Arm mm
CD021M80	94,00	Mechanical	80	340

Magnetic indicator stand

Adjustable arms with central locking and fine adjustment. Flat and V-groove fine grinded magnetic base, \varnothing 8mm clamping shaft.

COD. 1	€	Locking	Holding power Kg	Arm mm
CD016ME	186,00	Mechanical	100	340
CD016MEL	258,00			426
CD018ID	181,00	Hydraulic	100	336
CD018IDL	247,00			434



Fix magnetic base dial gauge stand

Base always magnetically active.

COD. 1	€	Locking	Base dimensions mm	Holding power Kg	Arm mm
CD029M30	87,00	Mechanical	45 x 30	30	150

Magnetic stand with fine adjustment

Heavy universal dial indicator vertical rod ø16mm - horizontal rod ø16mm - gauge holder ø 8mm - magnetic base 100 kg - fine adjustment device.

COD. 1	€	Locking	Holding power Kg	Arm mm
CD022M490	134,00	Mechanical	100	490
CD022M1000	206,00			1000 rod (500x500)

KANETEC



CD010160



CD010180

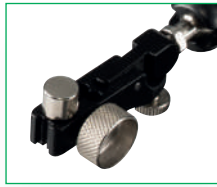


CD010194

Magnetic indicators stands

High quality japanese made magnetic base, considered by many the best on the market thanks to the high quality construction and durability. On all models magnetic base with V-groove, chromed arm, clamping shaft ø 8mm. Holding power 80 kg. Arm dimension ø 12mm.

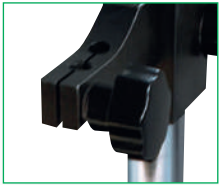
COD. 1	€	Locking	Fine adjustment	Arm mm
CD010160	64,00	Mechanical	NO	160
CD010180	79,00		YES	180
CD010194	135,00		NO	194



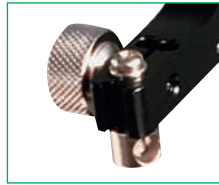
Dial gauge holder stand with granite base

Flatness and precision according to DIN 876/00. Column with fully articulated rods with centralised locking and micrometric adjustment. Dove tail connection for 8mm (symbol) diameter dial gauge.

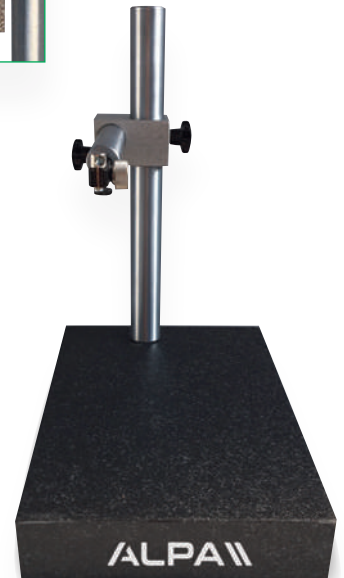
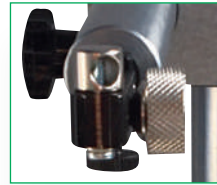
COD. 1	€	Locking	Base mm	Arm mm
CD024ME	312,00	Mechanical	300 x 200	340



CD040B
without fine adjustment



CD040C
with fine adjustment thread column



CD040D
with fine adjustment thread column

Dial gauge stand with granite base

DIN 876/00 compliant flatness and accuracy, sturdy, highly stable structure, hardened and grinded stainless steel stand column and fine lapped surface, ø8mm dial gauge coupling. Dial gauge not included.

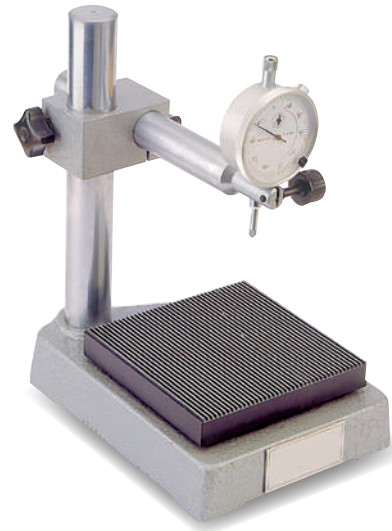
COD. 1	€	Column Ømm	Base mm	Arm mm
CD040B	196,00	25 x 200	250 x 160	75
CD040C	371,00	30 x 300	300 x 200	180
CD040D	302,00	30 x 300	300 x 200	180



Column type stand

Hardened grinded steel with fixed check plate. H. Column 230mm \varnothing 25 mm. Horizontal arm 75mm.

COD. 1	€	Column \varnothing mm	Base mm	Arm mm
CD02770	146,00	25 x 230	78	75



Column dial gauge holder

Hardened and ground steel, with fix control plate. Smooth column \varnothing 30.

COD. 1	€	Column \varnothing mm	Base mm
CD028125	216,00	200	125 x 125



Detergent for lapped surfaces

Special liquid for lapped surfaces.

COD. 1	€	L
HA1550,5L	23,00	0,5
HA1555L	78,00	5



Granite polishing oil

BLACK LIGHT is a product designed and formulated to protect, revitalise, preserve and polish diabase granite tops.

COD. 1	€	L
HA1600,5L	14,00	0,5
HA1605L	78,00	5



Made in Italy



Standard bore gauge

Alpa bore gauges with a robust frame, reliability and high accuracy. Suitable for hard work conditions in workshop and metrology lab. Carbide moving contact, \varnothing 8mm clamping shank for dial gauge.

HARDENED STAINLESS STEEL CONTACTS

COD. 1	€	Range mm	Max depth mm
DA0101535A	270,00	15 ÷ 35	175
DA01030100A	274,00	30 ÷ 100	250
DA01050160A	310,00	50 ÷ 160	
DA01050210A	350,00	50 ÷ 210	450
DA010100300A	510,00	100 ÷ 300	350
DA010100500AS	570,00	100 ÷ 500	
DA010100500A	760,00	100 ÷ 500	650

CARBIDE CONTACTS

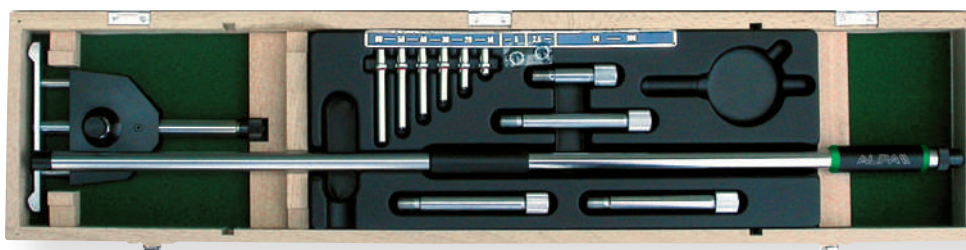
COD. 1	€	Range mm	Max depth mm
DA0101535W	296,00	15 ÷ 35	175
DA01030100W	340,00	30 ÷ 100	250
DA01050160W	368,00	50 ÷ 160	
DA01050210W	370,00	50 ÷ 210	450
DA010100300W	655,00	100 ÷ 300	350
DA010100500WS	780,00	100 ÷ 500	
DA010100500W	838,00	100 ÷ 500	650

EXTENSIONS FOR DIAL BORE GAUGES 30-100mm; 50-160mm; 50-210mm

COD. 1	€	Length mm	Diameter section mm
DA021500	277,00	500	13
DA0211000	405,00	1000	

EXTENSIONS FOR DIAL BORE GAUGES 100-300mm; 100-500mm; 190-1000mm

COD. 1	€	Length mm	Diameter section mm
DA022500	306,00	500	15
DA0221000	426,00	1000	



Made in Italy



Big bores gauge

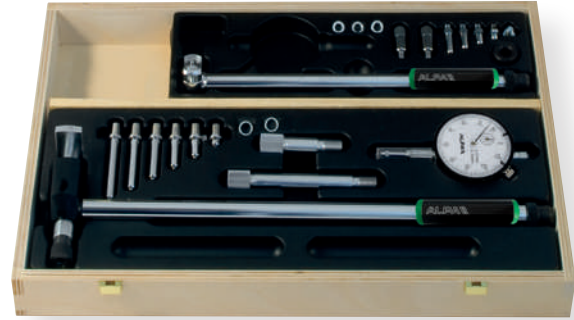
Ideal for big bores measurement, big measuring field with few accessories. Clamping dial shank \varnothing 8mm. Stem with double insulating grip, accuracy 0,03mm on 0,5mm measuring range. Dial not included.

HARDENED STAINLESS STEEL CONTACTS

COD. 1	€	Range mm	Max depth mm
DA018800A	1.250,00	190 ÷ 1000	800

CARBIDE CONTACTS

COD. 1	€	Range mm	Max depth mm
DA018800W	1.462,00	190 ÷ 1000	800



Abyss

Bore gauges set

Only one set to cover 15 to 210mm measuring range with reliability and less costs.

INCLUDES:

- 1 bore gauge range 15-35mm
- 1 bore gauge range 30-100mm
- 1 bore gauge range 50-210mm
- 1 extension
- 1 analogue dial indicator reading 0.01mm 'AA' and 'WA' series, or digital dial indicator with data output 'AD' and 'WD' series

HARDENED STAINLESS STEEL CONTACTS

COD. 1	€	Range mm	Max depth mm
DA025SETAA	890,00	15 ÷ 210	analogical 0,01mm
DA025SETAD	990,00		digital 0,001mm

CARBIDE CONTACTS

COD. 1	€	Range mm	Max depth mm
DA025SETWA	990,00	15 ÷ 210	analogical 0,01mm
DA025SETWD	1.090,00		digital 0,001mm

Abyss

Bore gauges set with dial indicator

Only one set to cover a wide measuring range.

INCLUDES:

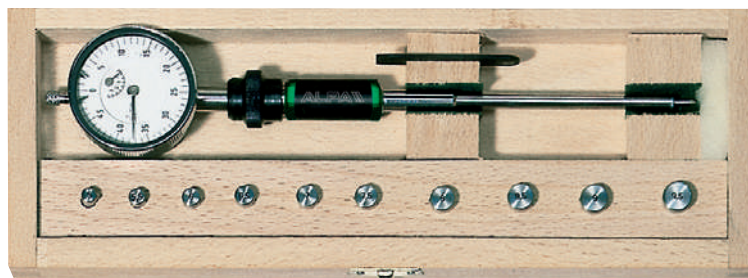
- 1 bore gauge range 30/100mm
- 1 bore gauge range 100/300mm
- 1 dial gauge supplied with case
- 2 extensions 100mm (30 -500)

HARDENED STAINLESS STEEL CONTACTS

COD. 1	€	Range mm
DA027SET300AA	770,00	30 - 300
DA027SET500AA	830,00	30 - 500

CARBIDE CONTACTS

COD. 1	€	Range mm
DA027SET300WA	917,00	30 - 300
DA027SET500WA	995,00	30 - 500



Abyss

Gauges for small bores

Interchangeable anvils with counteracting moving contact spheres, suitable for workshop measurements and tests measuring with 0,015mm accuracy. Stainless steel frame, ø 40mm dial, resolution 0,01mm included.

HARDENED STAINLESS STEEL CONTACTS

COD. 1	€	Range mm	Max depth mm	Reading mm
DA0150510A	608,00	5 ÷ 10	90	0,01
DA0151020A	659,00	10 ÷ 20	100	0,01

CARBIDE CONTACTS

COD. 1	€	Range mm	Max depth mm	Reading mm
DA0150510W	649,00	5 ÷ 10	90	0,01
DA0151020W	803,00	10 ÷ 20	100	0,01



Bore gauge for blind bores

Special head to measure at 2.5mm from the bottom. Maximum accuracy and reliability for high accuracy tests (Japanese class A). Low thermal expansion frame, non conducting handle. Carbide moving contact, interchangeable anvils with hardened stainless steel sphere, Ø 8mm dial gauge clamping shank, accuracy 2µm, repeatability 2µm. Dial not included.

COD. 1	€	Range mm	Max depth mm	Needles n.
DA0451835	330,00	18 ÷ 35	150	9
DA0453560	346,00	35 ÷ 60		6
DA04550150	387,00	50 ÷ 150		11

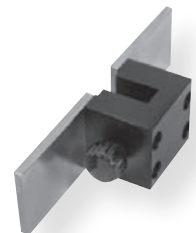
0,001 Resolution from 18 to 400mm bore gauge

Maximum accuracy and reliability for high accuracy tests (Japanese class A). Traditional bore gauge measuring system. Low thermal expansion dilatation frame, non conducting material handle. Carbide moving contact, interchangeable anvils with hardened stainless steel sphere, Ø 8mm dial gauge clamping shank, accuracy 2µm, repeatability 2µm. Dial not included.

COD. 1	€	Range mm	Max depth mm	Needles n.
DA0421835	268,00	18 ÷ 35	103	9
DA0423560	286,00	35 ÷ 60	150	6
DA04250150	330,00	50 ÷ 150		11
DA042100160	608,00	100 ÷ 160		13
DA042160250	711,00	160 ÷ 250	250	6
DA042250400	896,00	250 ÷ 400		5



FA181BA



FA181RD

Gauge block holders

Stainless steel holder for measuring blocks. Gauge blocks (not included) for accurate measures, horizontal or vertical use with support base.

COD. 1	€	Internal use mm	External use mm	Weight Kg
FA180300	655,00	150	190	3,10
FA180400	786,00	250	290	3,50
FA180600	950,00	450	490	4,00
FA180900	1.507,00	750	790	6,50

Accessories for gauge block holder

Accessories for code FA180: Base (FA181BA) needed for using the holder vertically, and adapter for bore gauge (FA181RD).

COD. 1	€	Length mm	Weight Kg
FA181BA	546,00	Base optional	1,80
FA181RD	562,00	Bore gauge clamp	0,20

HS4
from **18.000€**
INSTALLATION EXCLUDED

new



Bore gauges reset
TEL5
TA-SU-301



HS4

Workshop reset bench

Light alloy construction with steel pilots and scales. New trolley mechanism for increaser accuracy and repeatability.

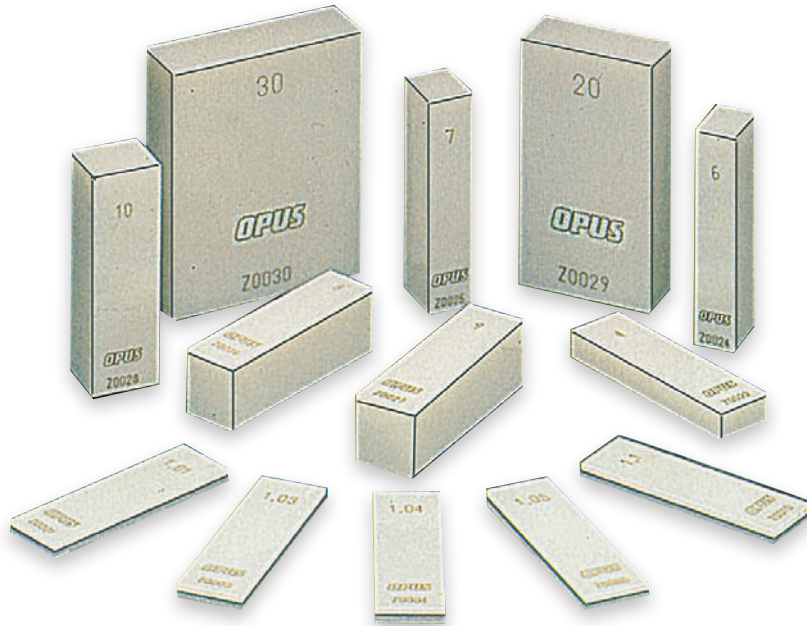
Easy and intuitive display with high-contrast fonts and protection from dust and splashes.

Ideal for zero-setting of all benchtop tools used in the workshop. Light alloy construction with steel pilots and scales. New trolley mechanism for increaser accuracy and repeatability.

Easy and intuitive display with high-contrast fonts and protection from dust and splashes.

Ideal for zero-setting of all benchtop tools used in the workshop.

CODE 1	Measuring range mm	Accuracy µm
LA0080500	500	0.7µm+L/1000mm
LA00801000	1000	

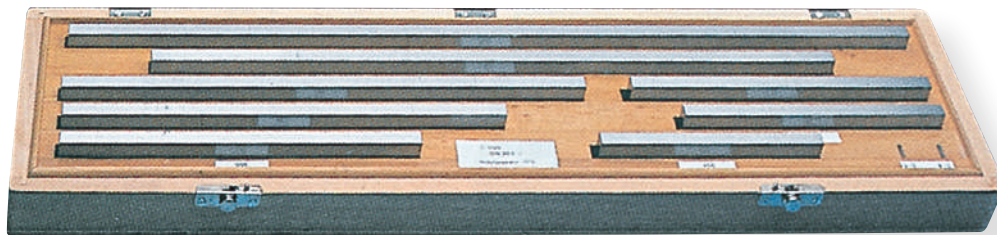


Zirconia gauge blocks

Impressive specifications, the best offered by research on materials, thanks to an exclusive process of molecular transformation, OPUS ceramic zircon offers a mechanical strength which preserves its entirety in case of accident fall. Excellent abrasion resistance, with wear up to 10 times less compared to hardened steel. Low thermal conductivity, high dimensional stability and hand-lapped surfaces.

COD. 1	€	Pieces	Dimensions mm	Grade
FA100470	3.337,00	47	1 pz (1,005) 9 pz (1.01-1.09) 9 pz (1.1-1.9) 24 pz (1-24) 4 pz (25-100)	0
FA100471	2.884,00	47	1 pz (1,005) 9 pz (1.01-1.09) 9 pz (1.1-1.9) 24 pz (1-24) 4 pz (25-100)	1

Complete set with optical parallel for flatness and parallelism inspection of micrometers contacts



Gauge blocks set 8 pcs

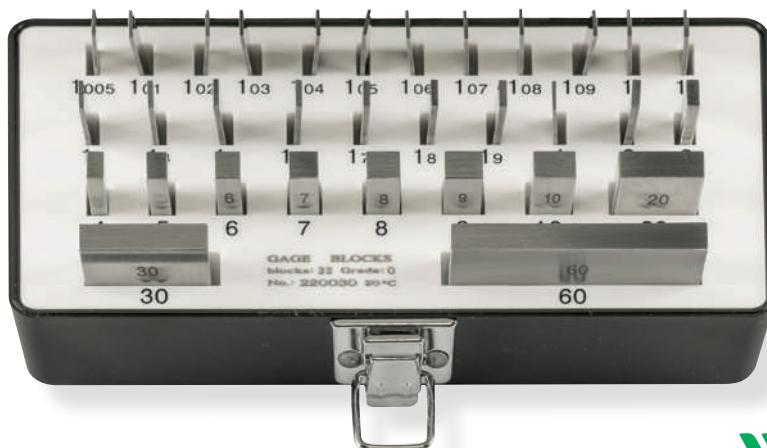
Special stainless steel. Hardness more than 63 HRC.

COD. 1	€	Grade	Pieces	Size mm
FA0508	1.154,00	1	8	125 - 150 - 175 - 200 250 - 300 - 400 - 500

BLOCKS OVER 100 mm LONG - CALIBRATION CERTIFICATE



DESCRIPTION	€
Single block from 100 to 300 mm	800,00



Gauge blocks set

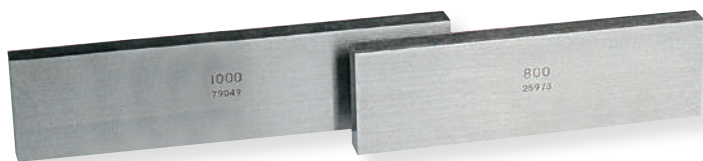
Special stainless steel. Hardness HRC64. According to ISO 3650 DIN 861.

COD. 1	€	Grade	Pieces	Set Pz	Size mm	Progression mm
FA0101030	954,00	0	103	1	1.005	-
FA0101031	618,00	1		49	1.01 ~ 1.49	0,01
FA0101032	354,00	2		4	25 ~ 100	25
FA010870	732,00	0	87	9	1.001~1.009	0,001
FA010871	494,00	1		49	1.01 ~ 1.49	0,01
FA010872	281,00	2		10	10 ~ 100	10

COD. 1	€	Grade	Pieces	Set Pz	Size mm	Progression mm
FA010470	556,00	0	47	1	1.005	-
FA010471	329,00	1		9	1.01 ~ 1.09	0,01
FA010472	203,00	2		24	1 ~ 24	1
FA010320	409,00	0	32	4	25 ~ 100	25
FA010321	236,00	1		9	1.01 ~ 1.09	0,01
FA010322	164,00	2		9	1.1 ~ 1.9	0,1
				3	1 ~ 9	1
				10	10 ~ 30	10
				1	60	-

COD. 1	€	Grade	Pieces	ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO
FA0121030	1.648,00	0	103	verification on 5 point (certified price included)
FA0121031	1.360,00	1		
FA012870	1.432,00	0	87	
FA012871	1.185,00	1		

COD. 1	€	Grade	Pieces	ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO
FA012470	925,00	0	47	verification on 5 point (certified price included)
FA012471	700,00	1		
FA012320	670,00	0	32	
FA012321	505,00	1		



BLOCKS OVER 100 mm LONG - CALIBRATION CERTIFICATE



DESCRIPTION	€
Single block from 100 to 300 mm	125,00
Single block from 300 to 600 mm	145,00
Set of 8 blocks from 125 to 600 mm	320,00

Single gauge block GRADE 1

According to ISO 3650/1 - DIN 861.

COD. 1	€	Range mm
FA0051250	123,00	125,0
FA0051500	158,00	150,0
FA0051750	185,00	175,0
FA0052000	219,00	200,0
FA0052500	277,00	250,0

COD. 1	€	Range mm
FA0053000	345,00	300,0
FA0054000	414,00	400,0
FA0055000	518,00	500,0
FA0056000	636,00	600,0
FA0057000	720,00	700,0
FA0058000	808,00	800,0
FA0059000	899,00	900,0
FA00510000	987,00	1000,0

FA185

FA186

FA191



Pin gauge set

Tolerance $\pm 0,002\text{mm}$ - Roughness: less than $0,025 \mu\text{m Ra}$ - Roundness: less than $0,0005\text{mm}$ - Taper: less than $0,001\text{mm}$ - Hardness: 61 - 64 Rockwell C. Single measures available.

COD. 1	€	Pieces	Range mm	Progression mm
FA186110	318,00	91	1 ÷ 10,00	0,01
FA186120	545,00	101	10,00 ÷ 20,00	0,01

COD. 1	€	Pieces	Range mm	Progression mm
FA186110	340,00	81	1 ÷ 5,00	0,05
FA186120	370,00	101	5,00 ÷ 10,00	0,05

CALIBRATED PINS - CALIBRATION CERTIFICATE



DESCRIPTION	€
From 1 to 5 pcs.	25,00
From 6 to 19 pcs.	9,00
From 20 to 50 pcs.	6,00
Over 50 pcs.	5,00

COD. 1	€	Pieces	Range mm	Progression mm
FA185011	235,00	51	0,50 ÷ 1,00	0,01
FA185012	299,00	100	1,01 ÷ 2,00	0,01
FA185013	299,00	100	2,00 ÷ 3,00	0,01
FA185014	299,00	100	3,00 ÷ 4,00	0,01
FA185015	310,00	100	4,00 ÷ 5,00	0,01
FA185016	310,00	100	5,00 ÷ 6,00	0,01
FA185017	348,00	100	6,00 ÷ 7,00	0,01
FA185018	348,00	100	7,00 ÷ 8,00	0,01
FA185019	348,00	100	8,00 ÷ 9,00	0,01
FA1850110	348,00	100	9,00 ÷ 10,00	0,01
FA1850111	469,00	101	10,00 ÷ 11,00	0,01
FA1850112	469,00	101	11,00 ÷ 12,00	0,01
FA1850113	469,00	101	12,00 ÷ 13,00	0,01
FA1850114	519,00	101	13,00 ÷ 14,00	0,01
FA1850115	519,00	101	14,00 ÷ 15,00	0,01
FA1850116	519,00	101	15,00 ÷ 16,00	0,01
FA1850117	519,00	101	16,00 ÷ 17,00	0,01
FA1850118	577,00	101	17,00 ÷ 18,00	0,01
FA1850119	577,00	101	18,00 ÷ 19,00	0,01
FA1850120	619,00	101	19,00 ÷ 20,00	0,01



Go/no go limit plug gauges set

In hardened steel. Tolerance H7. Supplied in wooden case.

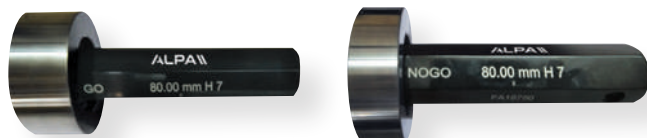
COD. 1	€	Set composition \varnothing mm	Pieces
FA188C	690,00	3-4-5-6-7-8-10-11-12-13 14-15-16-17-18-20-21-22 23-24-25-26-27-28-29-30	26
FA188D	660,00	32-34-35-36-38-40-42-44 46-48-50-52-55-58-60	15



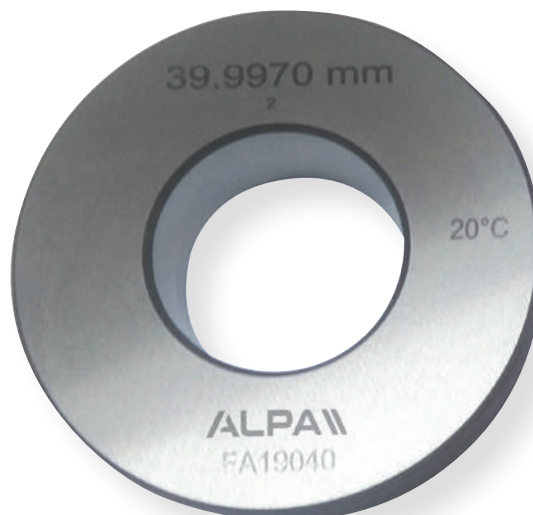
3mm - 10mm



11mm - 65mm



68mm - 100mm



Go/no go plug gauge

In hardened steel. Tolerance H7.

COD. 1	€	mm	COD. 1	€	mm	COD. 1	€	mm
FA1873	25,00	3	FA18725	27,00	25	FA18752	55,00	52
FA1874	25,00	4	FA18726	27,00	26	FA18755	55,00	55
FA1875	25,00	5	FA18727	27,00	27	FA18756	55,00	56
FA1876	25,00	6	FA18728	27,00	28	FA18758	55,00	58
FA1877	25,00	7	FA18729	27,00	29	FA18760	55,00	60
FA1878	25,00	8	FA18730	33,00	30	FA18762	55,00	62
FA1879	25,00	9	FA18732	33,00	32	FA18765	55,00	65
FA18710	25,00	10	FA18733	33,00	33	FA18768	62,00	68
FA18711	25,00	11	FA18734	33,00	34	FA18770	62,00	70
FA18712	25,00	12	FA18735	33,00	35	FA18772	71,00	72
FA18713	25,00	13	FA18736	33,00	36	FA18775	71,00	75
FA18714	25,00	14	FA18737	33,00	37	FA18778	77,00	78
FA18715	25,00	15	FA18738	33,00	38	FA18780	82,00	80
FA18716	25,00	16	FA18740	40,00	40	FA18782	82,00	82
FA18717	25,00	17	FA18742	40,00	42	FA18785	90,00	85
FA18718	25,00	18	FA18744	40,00	44	FA18788	90,00	88
FA18719	25,00	19	FA18745	40,00	45	FA18790	90,00	90
FA18720	27,00	20	FA18746	40,00	46	FA18792	97,00	92
FA18721	27,00	21	FA18747	40,00	47	FA18795	97,00	95
FA18722	27,00	22	FA18748	40,00	48	FA18798	97,00	98
FA18723	27,00	23	FA18750	40,00	50	FA187100	99,00	100
FA18724	27,00	24						

GO OR NO GO LIMIT PLUGS - CALIBRATION REPORT

DESCRIPTION	€
Up to 50 mm	8,00
Over 50 to 100 mm	13,00
Over 100 to 200 mm	20,00
Over 200 to 300 mm	27,00

GO OR NO GO LIMIT PLUGS CALIBRATION CERTIFICATE



DESCRIPTION	€
Up to 50 mm	45,00
Over 50 to 100 mm	50,00
Over 100 to 200 mm	55,00
Over 200 to 300 mm	85,00

Setting ring

Setting ring, according to DIN 2250.

COD. 1	€	mm	COD. 1	€	mm	COD. 1	€	mm
FA1904	49,00	4	FA19020	49,00	20	FA19060	84,00	60
FA1905	49,00	5	FA19021	49,00	21	FA19065	94,00	65
FA1906	49,00	6	FA19022	49,00	22	FA19070	94,00	70
FA1907	49,00	7	FA19023	49,00	23	FA19075	101,00	75
FA1908	49,00	8	FA19024	49,00	24	FA19080	116,00	80
FA1909	49,00	9	FA19025	49,00	25	FA19085	134,00	85
FA19010	46,00	10	FA19026	49,00	26	FA19090	134,00	90
FA19011	46,00	11	FA19027	49,00	27	FA19095	134,00	95
FA19012	46,00	12	FA19028	49,00	28	FA19100	185,00	100
FA19013	46,00	13	FA19029	49,00	29	FA190125	213,00	125
FA19014	46,00	14	FA19030	49,00	30	FA190150	266,00	150
FA19015	46,00	15	FA19035	49,00	35	FA190175	406,00	175
FA19016	46,00	16	FA19040	63,00	40	FA190200	545,00	200
FA19017	46,00	17	FA19045	63,00	45	FA190225	622,00	225
FA19018	46,00	18	FA19050	71,00	50	FA190250	700,00	250
FA19019	46,00	19	FA19055	71,00	55	FA190275	775,00	275

RESET RING - CALIBRATION REPORT

DESCRIPTION	€
From 0.5 to 1.99 mm	90,00
From 2 to 4.99 mm	50,00
From 5 to 50 mm	16,00
Over 50 to 100 mm	26,00
Over 100 to 200 mm	35,00
Over 200 to 300 mm	46,00

RESET RING CALIBRATION CERTIFICATE



DESCRIPTION	€
From 0.5 to 1.99 mm	130,00
From 2 to 4.99 mm	80,00
From 5 to 50 mm	50,00
Over 50 to 100 mm	55,00
Over 100 to 200 mm	70,00
Over 200 to 300 mm	100,00



Go/no go Thread plug gauge metric coarse pitch 6H

In hardened steel.

COD. 1	€	Ø and pitch mm	Tolerance
FA225204	48,00	2 x 0,4	6H
FA22522045	48,00	2,2 x 0,45	
FA22525045	48,00	2,5 x 0,45	
FA225305	34,00	3 x 0,5	
FA225407	34,00	4 x 0,7	
FA225508	34,00	5 x 0,8	
FA22561	34,00	6 x 1	
FA22571	34,00	7 x 1	
FA2258125	34,00	8 x 1,25	
FA2259125	34,00	9 x 1,25	
FA2251015	34,00	10 x 1,5	
FA2251115	34,00	11 x 1,5	
FA22512175	34,00	12 x 1,75	
FA225142	42,00	14 x 2	
FA225162	42,00	16 x 2	
FA2251825	53,00	18 x 2,5	
FA2252025	61,00	20 x 2,5	
FA2252225	53,00	22 x 2,5	
FA225243	61,00	24 x 3	
FA225273	74,00	27 x 3	
FA2253035	95,00	30 x 3,5	
FA2253335	95,00	33 x 3,5	
FA225364	95,00	36 x 4	
FA225394	95,00	39 x 4	
FA2254245	113,00	42 x 4,5	
FA2254545	113,00	45 x 4,5	
FA225485	113,00	48 x 5	
FA225525	201,00	52 x 5	
FA2255655	201,00	56 x 5,5	
FA2256055	201,00	60 x 5,5	

On request up to 100 mm

GO/NO GO THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	€
Up to 50 mm	25,00
Da 50 a 100 mm	35,00
Over 100 to 200 mm	50,00

GO/NO GO THREADED PLUGS - CALIBRATION CERTIFICATE

DESCRIPTION	€
Up to 50 mm	65,00
Da 50 a 100 mm	70,00
Over 100 to 200 mm	90,00



Go/no go Thread ring gauge metric coarse pitch 6G

In hardened steel.

GO		NO GO		Ø and pitch mm	Tolerance
COD. 1	€	COD. 1	€		
FA230204	60,00	FA235204	60,00	2 x 0,4	6g
FA23025045	60,00	FA23525045	60,00	2,5 x 0,45	
FA230305	39,00	FA235305	39,00	3 x 0,5	
FA230407	33,00	FA235407	33,00	4 x 0,7	
FA230508	37,00	FA235508	37,00	5 x 0,8	
FA23061	37,00	FA23561	37,00	6 x 1	
FA2308125	37,00	FA2358125	37,00	8 x 1,25	
FA2309125	43,00	FA2359125	43,00	9 x 1,25	
FA2301015	43,00	FA2351015	43,00	10 x 1,5	
FA23012175	43,00	FA23512175	43,00	12 x 1,75	
FA230142	49,00	FA235142	49,00	14 x 2	
FA230162	56,00	FA235162	56,00	16 x 2	
FA2301825	59,00	FA2351825	59,00	18 x 2,5	
FA2302025	74,00	FA2352025	74,00	20 x 2,5	
FA2302225	74,00	FA2352225	74,00	22 x 2,5	
FA230243	84,00	FA235243	84,00	24 x 3	
FA230273	95,00	FA235273	95,00	27 x 3	
FA2303035	103,00	FA2353035	103,00	30 x 3,5	
FA2303335	115,00	FA2353335	115,00	33 x 3,5	
FA230364	115,00	FA235364	115,00	36 x 4	
FA230394	115,00	FA235394	115,00	39 x 4	
FA2304245	148,00	FA2354245	148,00	42 x 4,5	
FA2304545	157,00	FA2354545	157,00	45 x 4,5	
FA230485	157,00	FA235485	157,00	48 x 5	

On request up to 100 mm

GO/NO GO THREADED RINGS - CALIBRATION REPORT

DESCRIPTION	€
From 5mm	18,00
From 50 to 100mm	24,00

GO/NO GO THREADED RINGS CALIBRATION CERTIFICATE

DESCRIPTION	€
From 5mm	55,00
From 50 to 100mm	60,00





Go/no go thread calipers metric fine pitch 6H

In hardened steel.

COD. 1	€	Ø and pitch mm	COD. 1	€	Ø and pitch mm
FA210405	49,00	4 x 0,5	FA21018075	73,00	18 x 0,75
FA210505	62,00	5 x 0,5	FA210181	50,00	18 x 1
FA210605	62,00	6 x 0,5	FA2101815	50,00	18 x 1,5
FA2106075	62,00	6 x 0,75	FA210182	50,00	18 x 2
FA2107075	50,00	7 x 0,75	FA21020075	73,00	20 x 0,75
FA210805	50,00	8 x 0,5	FA210201	50,00	20 x 1
FA2108075	50,00	8 x 0,75	FA2102015	50,00	20 x 1,5
FA21081	38,00	8 x 1	FA210202	50,00	20 x 2
FA21091	38,00	9 x 1	FA21022075	73,00	22 x 0,75
FA21010075	45,00	10 x 0,75	FA210221	50,00	22 x 1
FA210101	38,00	10 x 1	FA2102215	50,00	22 x 1,5
FA21010125	38,00	10 x 1,25	FA210241	50,00	24 x 1
FA210111	38,00	11 x 1	FA2102415	50,00	24 x 1,5
FA21012075	46,00	12 x 0,75	FA210242	53,00	24 x 2
FA210121	38,00	12 x 1	FA210251	53,00	25 x 1
FA21012125	38,00	12 x 1,25	FA2102515	53,00	25 x 1,5
FA2101215	38,00	12 x 1,5	FA210252	53,00	25 x 2
FA210131	44,00	13 x 1	FA2102615	53,00	26 x 1,5
FA2101315	42,00	13 x 1,5	FA210262	51,00	26 x 2
FA21014075	53,00	14 x 0,75	FA210271	55,00	27 x 1
FA210141	43,00	14 x 1	FA2102715	55,00	27 x 1,5
FA21014125	38,00	14 x 1,25	FA2102815	55,00	28 x 1,5
FA2101415	43,00	14 x 1,5	FA210282	52,00	28 x 2
FA210151	42,00	15 x 1	FA210301	72,00	30 x 1
FA2101515	53,00	15 x 1,5	FA2103015	64,00	30 x 1,5
FA21016075	53,00	16 x 0,75	FA210302	64,00	30 x 2
FA210161	46,00	16 x 1	FA210322	64,00	32 x 2
FA2101615	46,00	16 x 1,5	FA210331	83,00	33 x 1

COD. 1	€	Ø and pitch mm	COD. 1	€	Ø and pitch mm
FA2103315	61,00	33 x 1,5	FA210483	125,00	48 x 3
FA210332	61,00	33 x 2	FA2105015	125,00	50 x 1,5
FA2103415	80,00	34 x 1,5	FA210502	137,00	50 x 2
FA210342	78,00	34 x 2	FA210503	105,00	50 x 3
FA210343	71,00	34 x 3	FA2105215	90,00	52 x 1,5
FA2103515	63,00	35 x 1,5	FA210522	105,00	52 x 2
FA210352	63,00	35 x 2	FA210523	117,00	52 x 3
FA2103615	79,00	36 x 1,5	FA210524	144,00	52 x 4
FA210362	62,00	36 x 2	FA2105515	90,00	55 x 1,5
FA210363	79,00	36 x 3	FA210552	105,00	55 x 2
FA2103815	61,00	38 x 1,5	FA210553	115,00	55 x 3
FA210382	62,00	38 x 2	FA210554	140,00	55 x 4
FA210383	78,00	38 x 3	FA2105615	90,00	56 x 1,5
FA2103915	78,00	39 x 1,5	FA210562	105,00	56 x 2
FA210392	78,00	39 x 2	FA210563	115,00	56 x 3
FA2104015	78,00	40 x 1,5	FA210564	140,00	56 x 4
FA210402	78,00	40 x 2	FA2105815	90,00	58 x 1,5
FA210403	83,00	40 x 3	FA210582	105,00	58 x 2
FA2104215	78,00	42 x 1,5	FA210583	115,00	58 x 3
FA210422	78,00	42 x 2	FA210584	140,00	58 x 4
FA210423	83,00	42 x 3	FA2106015	90,00	60 x 1,5
FA2104415	83,00	44 x 1,5	FA210602	105,00	60 x 2
FA210442	83,00	44 x 2	FA210603	123,00	60 x 3
FA2104515	78,00	45 x 1,5	FA210604	150,00	60 x 4
FA210452	78,00	45 x 2	FA210622	105,00	62 x 2
FA210453	83,00	45 x 3	FA210623	123,00	62 x 3
FA2104815	157,00	48 x 1,5	FA210624	150,00	62 x 4
FA210482	125,00	48 x 2			

GO/NO GO THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	€
Up to 50 mm	25,00
Over 50 to 100 mm	35,00
Over 100 to 200 mm	50,00

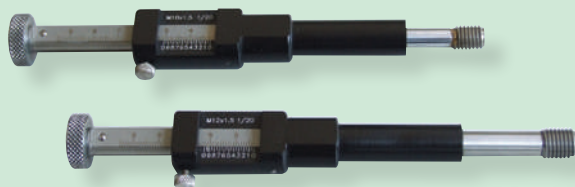
GO/NO GO THREADED PLUGS - CALIBRATION CERTIFICATE



DESCRIPTION	€
Up to 50 mm	65,00
Over 50 to 100 mm	70,00
Over 100 to 200 mm	90,00

Depth gauge for metric threads

Depth gauges for measuring depth of metric coarse thread. In hardened steel.



COD. 1	€	M
FA300M3	435,00	M3
FA300M4	435,00	M4
FA300M5	435,00	M5
FA300M6	435,00	M6
FA300M7	435,00	M7
FA300M8	435,00	M8



Go/no go Thread ring gauge metric fine pitch 6G

In hardened steel.

GO		NO GO		Ø and pitch mm
COD. 1	€	COD. 1	€	
FA215405	65,00	FA220405	65,00	4 x 0,5
FA215505	65,00	FA220505	65,00	5 x 0,5
FA215605	65,00	FA220605	65,00	6 x 0,5
FA2156075	65,00	FA2206075	65,00	6 x 0,75
FA2157075	65,00	FA2207075	65,00	7 x 0,75
FA215805	65,00	FA220805	65,00	8 x 0,5
FA2158075	61,00	FA2208075	61,00	8 x 0,75
FA21581	61,00	FA22081	61,00	8 x 1
FA21591	61,00	FA22091	61,00	9 x 1
FA2151005	63,00	FA2201005	63,00	10 x 0,5
FA21510075	73,00	FA22010075	73,00	10 x 0,75
FA215101	41,00	FA220101	41,00	10 x 1
FA21510125	41,00	FA22010125	41,00	10 x 1,25
FA215111	48,00	FA220111	48,00	11 x 1
FA21512075	53,00	FA22012075	53,00	12 x 0,75
FA215121	41,00	FA220121	41,00	12 x 1
FA21512125	41,00	FA22012125	41,00	12 x 1,25
FA2151215	41,00	FA2201215	41,00	12 x 1,5
FA215131	48,00	FA220131	48,00	13 x 1
FA2151315	48,00	FA2201315	48,00	13 x 1,5
FA21514075	91,00	FA22014075	91,00	14 x 0,75
FA215141	43,00	FA220141	43,00	14 x 1
FA21514125	43,00	FA22014125	43,00	14 x 1,25
FA2151415	43,00	FA2201415	43,00	14 x 1,5
FA215151	77,00	FA220151	77,00	15 x 1
FA2151515	77,00	FA2201515	77,00	15 x 1,5
FA21516075	92,00	FA22016075	92,00	16 x 0,75
FA215161	43,00	FA220161	43,00	16 x 1
FA2151615	43,00	FA2201615	43,00	16 x 1,5
FA21518075	92,00	FA22018075	92,00	18 x 0,75
FA215181	52,00	FA220181	52,00	18 x 1
FA2151815	52,00	FA2201815	52,00	18 x 1,5
FA215182	77,00	FA220182	77,00	18 x 2
FA21520075	102,00	FA22020075	102,00	20 x 0,75
FA215201	57,00	FA220201	57,00	20 x 1
FA2152015	57,00	FA2202015	57,00	20 x 1,5
FA215202	80,00	FA220202	80,00	20 x 2
FA21522075	102,00	FA22022075	102,00	22 x 0,75
FA215221	65,00	FA220221	65,00	22 x 1
FA2152215	65,00	FA2202215	65,00	22 x 1,5
FA215241	63,00	FA220241	63,00	24 x 1
FA2152415	65,00	FA2202415	65,00	24 x 1,5
FA215242	80,00	FA220242	80,00	24 x 2
FA215251	81,00	FA220251	81,00	25 x 1
FA2152515	81,00	FA2202515	81,00	25 x 1,5
FA215252	81,00	FA220252	81,00	25 x 2
FA2152615	58,00	FA2202615	58,00	26 x 1,5
FA215262	58,00	FA220262	58,00	26 x 2
FA215271	72,00	FA220271	72,00	27 x 1
FA2152715	71,00	FA2202715	71,00	27 x 1,5

GO		NO GO		Ø and pitch mm
COD. 1	€	COD. 1	€	
FA2152815	71,00	FA2202815	71,00	28 x 1,5
FA215282	78,00	FA220282	78,00	28 x 2
FA215301	111,00	FA220301	111,00	30 x 1
FA2153015	94,00	FA2203015	94,00	30 x 1,5
FA215302	94,00	FA220302	94,00	30 x 2
FA215321	107,00	FA220321	107,00	32 x 1
FA2153215	97,00	FA2203215	97,00	32 x 1,5
FA215322	97,00	FA220322	97,00	32 x 2
FA215331	107,00	FA220331	107,00	33 x 1
FA2153315	97,00	FA2203315	97,00	33 x 1,5
FA215332	97,00	FA220332	97,00	33 x 2
FA2153415	107,00	FA2203415	107,00	34 x 1,5
FA215342	107,00	FA220342	107,00	34 x 2
FA215343	123,00	FA220343	123,00	34 x 3
FA2153515	97,00	FA2203515	97,00	35 x 1,5
FA215352	97,00	FA220352	97,00	35 x 2
FA2153615	97,00	FA2203615	97,00	36 x 1,5
FA215362	97,00	FA220362	97,00	36 x 2
FA215363	107,00	FA220363	107,00	36 x 3
FA2153815	107,00	FA2203815	107,00	38 x 1,5
FA215382	107,00	FA220382	107,00	38 x 2
FA215383	128,00	FA220383	128,00	38 x 3
FA2153915	128,00	FA2203915	128,00	39 x 1,5
FA215392	107,00	FA220392	107,00	39 x 2
FA2154015	107,00	FA2204015	107,00	40 x 1,5
FA215402	107,00	FA220402	107,00	40 x 2
FA215403	123,00	FA220403	123,00	40 x 3
FA2154215	128,00	FA2204215	128,00	42 x 1,5
FA215422	128,00	FA220422	128,00	42 x 2
FA215423	128,00	FA220423	128,00	42 x 3
FA2154415	143,00	FA2204415	143,00	44 x 1,5
FA215442	143,00	FA220442	143,00	44 x 2
FA2154515	128,00	FA2204515	128,00	45 x 1,5
FA215452	128,00	FA220452	128,00	45 x 2
FA215453	128,00	FA220453	128,00	45 x 3
FA2154815	128,00	FA2204815	128,00	48 x 1,5
FA215482	112,00	FA220482	112,00	48 x 2
FA215483	128,00	FA220483	128,00	48 x 3
FA2155015	112,00	FA2205015	112,00	50 x 1,5
FA215502	112,00	FA220502	112,00	50 x 2
FA215503	128,00	FA220503	128,00	50 x 3

GO/NO GO THREADED RINGS - CALIBRATION REPORT

DESCRIPTION	€
Up to 50 mm	18,00

GO/NO GO THREADED RINGS CALIBRATION CERTIFICATE

DESCRIPTION	€
Up to 50 mm	55,00





Thread plug gauge GAS ISO 228

Cylindrical thread.

COD. 1	€	Ø and pitch mm
FA27018	74,00	1/8" x 28
FA27014	74,00	1/4" x 19
FA27038	74,00	3/8" x 19
FA27012	79,00	1/2" x 14
FA27058	79,00	5/8" x 14
FA27034	89,00	3/4" x 14
FA27078	95,00	7/8" x 14
FA2701	115,00	1" x 11
FA270118	147,00	1" 1/8 x 11
FA270114	163,00	1" 1/4 x 11
FA270138	178,00	1" 3/8 x 11
FA270112	188,00	1" 1/2 x 11
FA270134	188,00	1" 3/4 x 11
FA2702	200,00	2" x 11

Go/no go Thread ring gauge GAS ISO 228

GO		NO GO		Ø and pitch mm
COD. 1	€	COD. 1	€	
FA27518	84,00	FA28018	84,00	1/8" x 28
FA27514	80,00	FA28014	80,00	1/4" x 19
FA27538	87,00	FA28038	87,00	3/8" x 19
FA27512	97,00	FA28012	97,00	1/2" x 14
FA27558	95,00	FA28058	95,00	5/8" x 14
FA27534	99,00	FA28034	99,00	3/4" x 14
FA27578	99,00	FA28078	99,00	7/8" x 14
FA2751	136,00	FA2801	136,00	1" x 11
FA275118	136,00	FA280118	136,00	1" 1/8 x 11
FA275114	147,00	FA280114	147,00	1" 1/4 x 11
FA275138	147,00	FA280138	147,00	1" 3/8 x 11
FA275112	147,00	FA280112	147,00	1" 1/2 x 11
FA275134	147,00	FA280134	147,00	1" 3/4 x 11
FA2752	181,00	FA2802	181,00	2" x 11



Thread plug gauge NPT

Conical thread.

COD. 1	€	Ø and pitch mm
FA28518	113,00	1/8" x 27
FA28514	113,00	1/4" x 18
FA28538	118,00	3/8" x 18
FA28512	124,00	1/2" x 14
FA28534	129,00	3/4" x 14
FA2851	149,00	1" x 11,5

Thread ring gauge NPT

COD. 1	€	Ø and pitch mm
FA28618A	232,00	1/8" x 27
FA28614A	216,00	1/4" x 18
FA28638A	216,00	3/8" x 18
FA28612A	216,00	1/2" x 14
FA28634A	221,00	3/4" x 14
FA2861A	237,00	1" x 11,5

CONICAL THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	€
From 1/8" to 1"	41,00

CONICAL THREADED PLUGS CALIBRATION REPORT

DESCRIPTION	€
From 1/8" to 3"	260,00



CONICAL THREADED RINGS - CALIBRATION REPORT

DESCRIPTION	€
From 1/8" to 1"	49,00

CONICAL THREADED RINGS CALIBRATION CERTIFICATE

DESCRIPTION	€
From 1/8" to 4"	275,00





Analogue electronic linear precision level

150mm linear level, fine grinded contact surfaces. Hardened stainless steel frame. High accuracy and easy reading, short rest time. Battery or power supply 220V. Three resolution selection: 0,1mm/n - 0,05mm/n - 0,01mm/n.

COD. 1	€	Range mm/m	Accuracy 17-23°C	Repeatability mm/m
EB085A	4.553,00	± 0,2 - ±1 - ±2	± 0,5 %	± 0,005



Square digital electronic level

Compact frame (150 x 150mm) and light weight (2.8 kg) aluminium body, cast iron base. Very easy to use (only two buttons), large dimensions LCD display, simple calibration. Useful for accurate, fast and low cost inspections: high precision leveling of machine tools and surface plates straightness, flatness and vertical measurement.

COD. 1	€	Accuracy 17±23°C	Resolution mm/m	Range mm/m
EA03001	2.678,00	± 0,02mm/m	0,01	± 5



Square mini-level with magnetic base

Measuring range +- 180

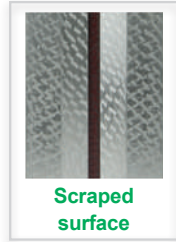
COD. 1	€	Dimensions mm	Resolution	Precision
EA070180	62,00	50 x 50 x 32	0,1°	± 0,20



Digital protractor

0,1° resolution 360° (4 x 90°) protractor level and inclinometer, ON/OFF button. Zero setting at any position, last displayed value hold feature (HOLD mode). 3V battery supply (included).

COD. 1	€	Dimensions mm	Resolution	Precision
EA02101	88,00	150 x 30 x 50	0,1°	0,1°



Square precision spirit level

With four 90° surfaces, 2 flat and 2 V-shaped for checking flat and cylindrical, horizontal and vertical surfaces. Insulation board handle with vial protection. Supplied in hard box.

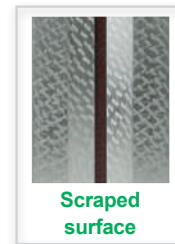
COD. 1	€	Length mm	Sensibility mm/m	Surfaces
EB040150	379,00	150	0,02	Scraped
EB040200	492,00	200		
EB045150	207,00	150		Grinded
EB045200	238,00	200		

Square precision spirit level

Manufactured in nichel-chrome cast iron frame. Fine grinded surface, 2 plane and 2 prismatic faces. Serial number, manufactured according to DIN877. Thermal-insulated grip. The vial is visible both from above and laterally.

COD. 1	€	Resolution mm	Sensibility mm/m
EB030150	608,00	150	0,02
EB030200	659,00	200	

Made in Italy



Linear precision spirit level

Manufactured in nichel-chrome cast iron frame. Fine grinded surface. Flat base with V-groove. Serial number, manufactured according to DIN 877. Thermal-insulated grip. The vial is visible both from above and laterally.

COD. 1	€	Length mm	Sensibility mm/m
EB035150	402,00	150	0,02
EB035200	422,00	200	
EB035300	494,00	300	

Linear precision spirit level

Base V-groove suitable for flat surfaces or cylinders. Delivered in rigid case.

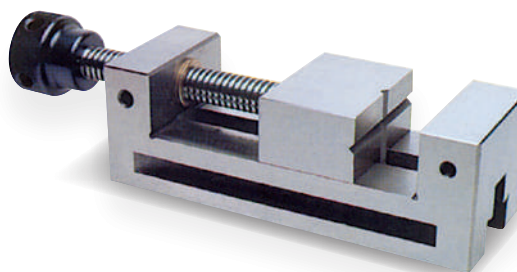
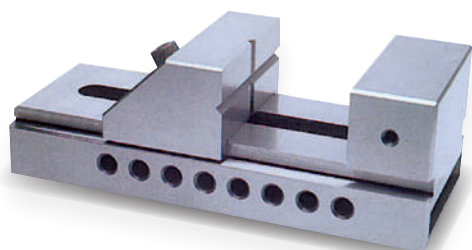
COD. 1	€	Length mm	Sensibility mm/m	Surfaces
EB051150	225,00	150	0,02	Scraped
EB051200	243,00	200		
EB051250	337,00	250		
EB060150	117,00	150	0,05	Grinded
EB060200	155,00	200		
EB060300	161,00	300		



Gauge to zero-set tools

Fast and accurate gauge to zero-set tools on traditional and CNC machines. Put the tool on machine plane, approach with the tool and push the plate until dial gauge goes to the preset value. Hardened aluminium construction, with hardened stainless steel plate, reading 0,01mm, magnetic base for horizontal use. $\pm 0,005\text{mm}$ tolerance on zero-set height.

COD. 1	€	Reading mm	Excursion mm	Zero-set mm
HA20050	165,00	0,01	5	50
HA200100	192,00			100



Precision measuring milling vice

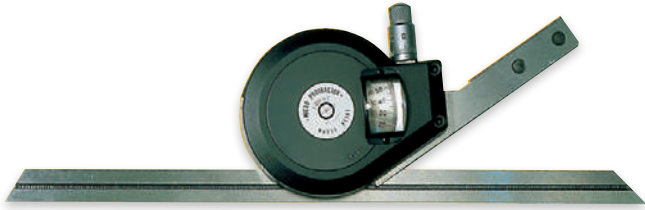
Hardened precision vices for accurate measurements and machine operations. Horizontally and vertically ground prism on the movable side.

COD. 1	€	Total length mm	Opening jaws mm	Jaws width mm	Jaws height mm
EB10565	77,00	65	25	25	10
EB105100	87,00	100	40	36	20
EB105140	97,00	140	65	50	25
EB105175	109,00	175	85	63	32
EB105245	245,00	245	125	100	45
EB105285	330,00	285	160	125	50
EB105330	497,00	330	200	150	50

Precision measuring milling vice

Hardened precision vices for accurate measurements and machine operations. Horizontally and vertically ground prism on the movable side.

COD. 1	€	Total length mm	Opening jaws mm	Jaws width mm	Jaws height mm
EB110155	128,00	155	65	50	25
EB110190	146,00	190	85	63	32
EB110210	203,00	210	100	73	35
EB110250A	233,00	250	125	88	40
EB110250B	309,00	250	125	100	45



Universal level protractor

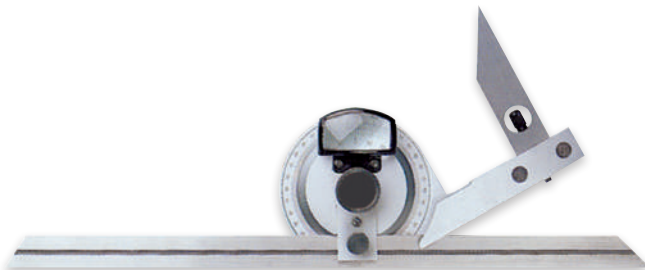
High precision, easy to use and reliable measuring tool. It can be considered the most accurate level protractor on the market. Graduation 1° on Vernier on the tool center, with lens and 1' (1/60°) on micrometer vernier. Registered system for automatic lock-unlock of the dial rotation and the moving blade. Totally made of hardened stainless steel, supplied with 90° stainless steel acute angle, 150 mm blade and 300 mm blade. Graduation 4 x 90°, accuracy ± 1'.

COD. 1	€	Range mm	Resolution
EB020360	701,00	0 ÷ 360°	1'

Digital level protractor

Easy to use measuring tool with the highest accuracy on this type of tools. Stainless steel made frame and beam. HOLD function. Functions: A measure 0-360° left-handed counting, B measure 0-360° right handed counting, C Preset measure, D zero for comparative measurements. Fine adjustment. Digimatic data output for MSP2 or PC connection.

COD. 1	€	Range mm	Resolution
EA009200BT	1.650,00	0 ÷ 360°	0,01' / 0,0001rad



Bevel protractor with magnifier

High accuracy cheap bevel protractor. Hardened stainless steel made. Parallax-free reading surface.

COD. 1	€	Range mm	Resolution
EB022300	76,00	200 - 300	5'

Digital stainless steel level protractor

Digital bevel protractor made of stainless steel, with blades 150 or 300 mm. Hardened blades, accuracy ± 2'.

COD. 1	€	Range mm	Resolution
EA012300	360,00	150 - 300	1' - 1/100°

TOP
quality

TOP
quality



QUICK GUIDE



CALIBRATION REPORT

on master
on measuring rule
on orthogonality



MEGAtower

IP67 Height Gauge

Totally manufactured in Switzerland, it guarantees durability, accuracy and reliability. The display unit provides functions that are directly accessible and defined with symbols easy to understand. This allows easy and quick handling even by unqualified operators. It is equipped with an air cushion for easy displacement on the measuring table.

COD. 3	€	Max error µm	Range mm	Perpendicularity error µm
GA050400	5.253,00	5	400	10
GA050700	5.717,00		700	15

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

INSERTS

COD. 1	€	Ø holder mm	Ball	Ball Ø mm	Length mm
GA052R490	211,00	8	Ruby	4	90
GA052R5129	288,00			5	129
GA052W2130	633,00		Carbide	2	130
GA052W280	393,00			80	
GA052W175	371,00			1	75

MEGAtower

Workshop height gauge

Resolution 0.001mm; Measuring Force 0.75+1.5 N. Swiss made, robust, accurate and reliable. Easy to use High contrast display with RS232 and USB interface. Supplied with Ø 4mm ruby probe, calibration master and cover.

COD. 3	€	Max error µm	Range mm	Repeatability µm
GA040400	3.863,00	8	400	3 (Ø5)

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

INSERTS

COD. 1	€	Ø holder mm	Ball	Ball Ø mm	Length mm
GA052R490	211,00	8	Ruby	4	90
GA052R5129	288,00			5	129
GA052W2130	633,00		Carbide	2	130
GA052W280	393,00			80	
GA052W175	371,00			1	75

Made in Italy



Made in Italy



Double column digital height gauge

Hardened stainless steel double column with regulation. Cast iron ergonomic base, electronics with preset and hold functions, data output.

COD. 1	€	Range mm	Resolution mm
GA090300	1.080,00	0 ÷ 300	0,01
GA090600	1.474,00	0 ÷ 600	

IP54 Double column digital height gauge

Resolution 0.01mm. Ground cast iron base on the four support points. Polished chrome finish steel column. LCD display. Squared stainless steel marker, which can be adjusted using the housed key. With fast moving button. Made using Sylvac electronics with preset.

COD. 1	€	Range mm	Base mm	Accuracy mm
GA075300	1.146,00	0 ÷ 300	204x117	0,03
GA075600	1.307,00	0 ÷ 600		
GA0751000	1.604,00	0 ÷ 1000		0,04
GA075COMP	275,00	Dial stand holder Ø 8		



Double column dial height gauge

Resolution 0.01mm. Hardened stainless steel.

COD. 1	€	Range mm	Resolution mm
GB010300	260,00	0 ÷ 300	0,01
GB010600	459,00	0 ÷ 600	

Digital height gauge multifunction

Resolution 0,01mm. LCD display with big numbers. Hardened stainless steel.

COD. 1	€	Range mm	Resolution mm
GA080300	247,00	0 ÷ 300	0,01
GA080500	390,00	0 ÷ 500	
GA0801000	1.003,00	0 ÷ 1000	
GA0801500	1.467,00	0 ÷ 1500	

GA080COMP	45,00	Dial stand holder	
GA080TAST	46,00	Dial Holder	



Digital height gauge

LCD display. Hardened stainless steel. With handle and rack.

COD. 1	€	Range mm	Resolution mm
GA095300	387,00	0 ÷ 300	0,01
GA095600	670,00	0 ÷ 600	



HA155
Detergent for lapped surfaces



HA160
Granite polishing oil

**STAND INCLUDED
WITH NON-SLIP FEET**

Granite inspection plate

Inspection plate, non magnetic, non conductor of electricity and made of inoxidable material. African black grade "0". Diabase absolute black also available. Steel structure with painted rectangular section, suitable for both cast iron and granite plates, adjustment levelling and anti-fitting tips. Suitable for 630x400x80 mm e 800x500x100 mm surfaces.

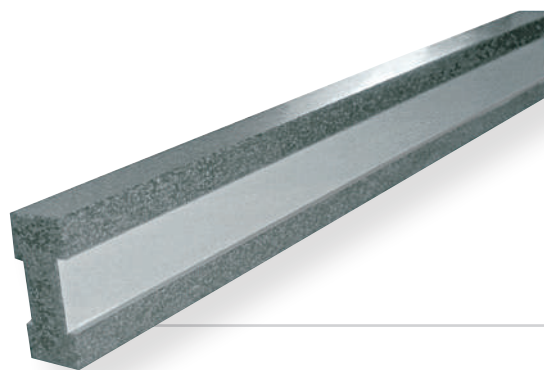
Ask price for purchase of table or plate.

COD. 1	€	Plate dimensions mm	Accuracy mm
HA122630T	650,00	630 x 400	± 0,004
HA122800T	820,00	800 x 500	± 0,004
HA1221000T	1.130,00	1000 x 630	± 0,004
HA1221200T	1.650,00	1200 x 800	± 0,005
HA1221600T	2.390,00	1600 x 1000	± 0,006
HA1222000T	3.450,00	2000 x 1000	± 0,006

Made in Italy



Made in Italy



Black control square granite

Used for checking perpendicularity. Made according to extremely small tolerances. High stability. The larger squares are bored to decrease weight. Lapped surfaces. Top quality finishing. Flatness and ortogonality accuracy on two 90° faces. Supplied in wooden boxes.

Made in Italy.

COD. 1	€	Dimensions mm	Accuracy mm	Kg
HA140400	797,00	400 x 250 x 60	± 0,0018	12
HA140500	1.131,00	500 x 315 x 70	± 0,002	20
HA140630	1.949,00	630 x 400 x 80	± 0,0023	36
HA1401000	3.511,00	1000 x 630 x 140	± 0,0026	170

Double T black granite parallel level

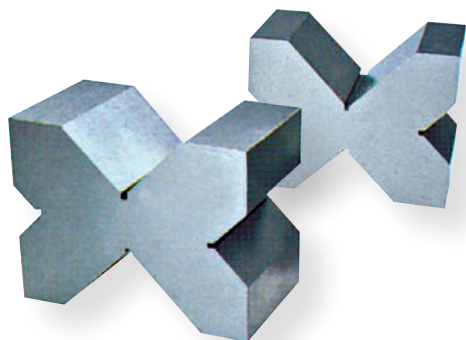
Two parallel, plane, lapped faces with double T-shaped section for stability and lightness. The parallelism tolerance is equal to the planarity tolerance. Supplied in wooden boxes.

Made in Italy.

COD. 1	€	Dimensions mm	Accuracy mm	Kg
HA135500	644,00	500 x 50 x 80	± 0,0015	4
HA135750	783,00	750 x 50 x 80	± 0,002	7
HA1351000	1.223,00	1000 x 60 x 140		19
HA1351500	2.148,00	1500 x 80 x 180	± 0,0026	57
HA1352000	3.652,00	2000 x 100 x 220	± 0,003	104

Parallelism and flatness accuracy on the two faces

Made in Italy



4 V Parallel block

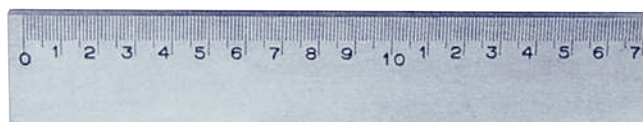
Machined and provided in couple, 90° v-groove, contact surfaces, G26 grey pearlitic steel structured, accuracy 0,01mm, 0,10mm on request.

COD. 1	€	Dimensions mm	Accuracy mm
HA03560	100,00	60 x 60 x 50	± 0,01
HA03575	105,00	75 x 75 x 60	
HA03590	103,00	95 x 70 x 35	
HA035100	160,00	100 x 80 x 60	
HA035120	190,00	120 x 90 x 60	
HA035130	220,00	130 x 100 x 60	
HA035150A	260,00	150 x 100 x 60	

Magnetic "V" prism

Fit for a quick positioning during machining and testing operations. Sold individually.

COD. 1	€	Dimensions mm	V Surface kg	Flat surface kg
HA04280	187,00	80 x 56 x 72	55	70
HA042115	315,00	115 x 75 x 100	90	110



Stainless steel rule

Made to follow very small tolerances. Grinded on all faces. Double T shaped grip and section for stability and lightness. Serially numbered. Manufactured according to DIN 874/1.

COD. 1	€	Dimensions mm	Section mm	Kg
HA115500	278,00	500	50 x 12	2
HA1151000	510,00	1000	70 x 15	4,70
HA1151500	773,00	1500	90 x 20	14
HA1152000	1.164,00	2000		19
HA1153000	3.093,00	3000		31,50

Stainless steel rule with millimeter graduation without bevel

According to DIN 866/A.

COD. 1	€	Dimensions mm	Kg
HA105500	80,00	500 x 43 x 5	0,90
HA105750	100,00	750 x 43 x 5	1,30
HA1051000	140,00	1000 x 43 x 5	1,80
HA1051500	210,00	1500 x 43 x 5	2,60
HA1052000	310,00	2000 x 43 x 5	3,50



Hardened flat square stainless steel

Entirely grinded faces. High accuracy, manufactured and tested according to very strict procedures, according to DIN 875/0. Serially numbered. **Made in Italy.**

COD. 1	€	Section mm	Dimensions mm
HA085100	93,00	20 x 8	100 x 70
HA085150	115,00	25 x 8	150 x 100
HA085200	206,00	30 x 8	200 x 130
HA085300	302,00	40 x 9	300 x 200

For different measures refer to the catalogue



Square with back in hardened stainless steel

Entirely grinded faces. High accuracy, manufactured and tested according to very strict procedures, according to DIN 875/0. Serially numbered. **Made in Italy.**

COD. 1	€	Section mm	Dimensions mm
HA075100	144,00	20 x 8	100 x 70
HA075150	179,00	25 x 8	150 x 100
HA075200	216,00	30 x 8	200 x 130
HA075300	346,00	40 x 9	300 x 200

For different measures refer to the catalogue



Flat knife edge square in hardened stainless steel

The two chamfered and lapped sides allow a more accurate visual check. Entirely grinded. High accuracy, manufactured and tested according to very strict procedures, according to DIN875/00. Serially numbered. **Made in Italy.**

COD. 1	€	Section mm	Dimensions mm
HA090100	100,00	20 x 8	100 x 70
HA090150	137,00	25 x 8	150 x 100
HA090200	194,00	30 x 8	200 x 130
HA090300	364,00	40 x 9	300 x 200

For different measures refer to the catalogue



Knife edge square with back in hardened stainless steel

The two chamfered and lapped sides allow a more accurate visual check. Entirely grinded. High accuracy, manufactured and tested according to very strict procedures, according to DIN 875/00. Serially numbered. **Made in Italy.**

COD. 1	€	Section mm	Dimensions mm
HA092100	184,00	20 x 8	100 x 70
HA092150	206,00	25 x 8	150 x 100
HA092200	350,00	30 x 8	200 x 130
HA092300	475,00	40 x 9	300 x 200

For different measures refer to the catalogue

NEW SHOWROOM



SHOWROOM

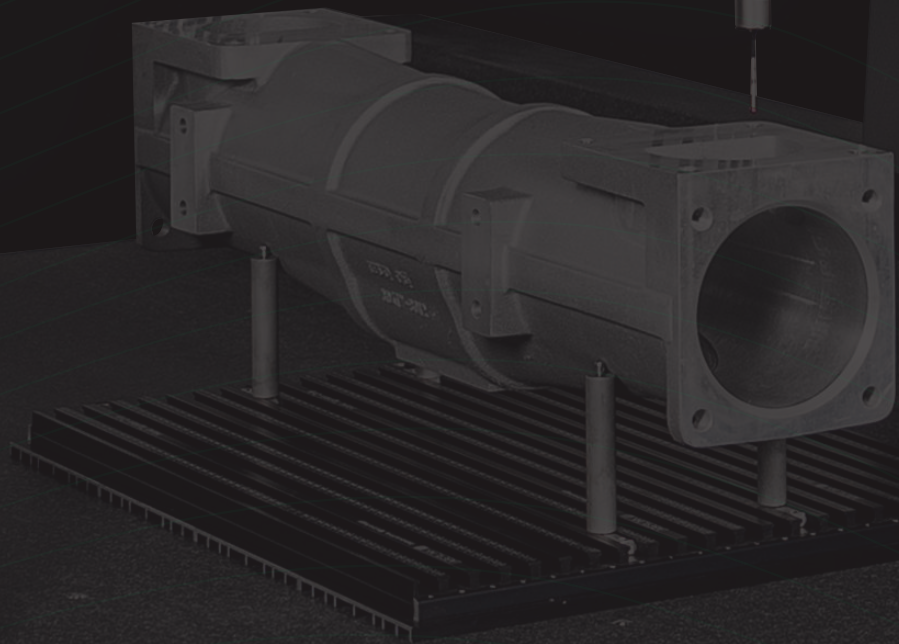
come visit us!





ALPA

MEASURING MACHINES AND HIGH TECHNOLOGY INSTRUMENTS





QUICK GUIDE



CD024ME
Stand



LA255PRINT
Bluetooth Printer



Optic Roughness Tester portable

Pocket sized roughness tester with optic transmission with 90° rotating for shoulder measurements, interchangeable probe and Gaussian filter. 8 parameters according to ISO 4287 (Ra; Rq; Rt; Rz; Rc; Rmax; Rsm; Rpc), 5 parameters according to ISO 12085 (Pt, R, AR, Rx, PPC).

The extremely compact dimension (the smallest in the marketplace) and the quick battery charging, via USB, make this instrument a turning point for FMI.

Optionally, downloading the application on tablet for mobile phone, customer can transfer data Bluetooth.

ACCESSORIES INCLUDED:

- Power supply
- Software
- USB type C
- Calibration specimen
- Practical carry case

STAND

COD. 1	€	Description
CD024ME	312,00	Stand for roughness tester

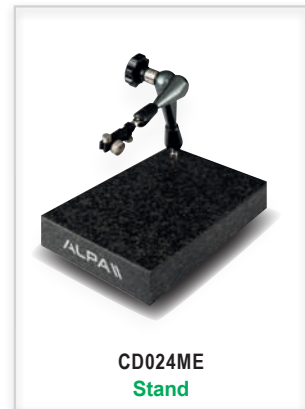
COD. 3	€	Description
LA251LITE	2.256,00	160 x 33,5 x 34
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED		

ACCESSORIES

COD. 3	€	Description
LA252PR50	303,00	Extension 50mm
LA252PR100	305,00	Extension 100mm
LA252090	817,00	Standard surface probe 90° SB51
LA252SB2	774,00	Professional Software

FEATURES

Range	± 200μm
Resolution	0,001μm
Cut-off length	0,25 - 0,8 - 2,5mm
Travel length	up to 16mm
Probe	Optical, it can be rotated of 90° for lateral measurement



CD024ME
Stand

FACEstest25

Portable roughness tester

LA250DIS represents the direct evolution of LA249FIX being enhanced by advanced analysis typical of instruments found only in metrological laboratories. It displays graphs of roughness and primary profile, curves of portance, ordinate distribution and allows you to set tolerances on individual parameters and personalize reports. 90° inductive rotating probe and 2" TFT graphic display.

Software and cable included.

STAND

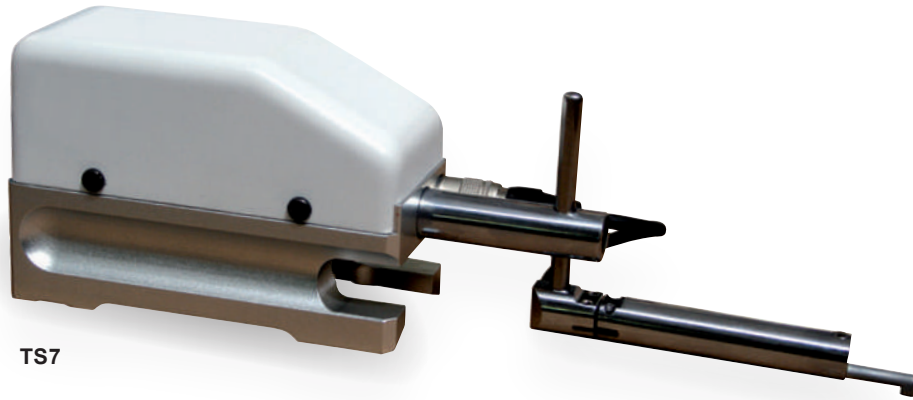
COD. 1	€	Description
CD024ME	312,00	Stand for roughness tester

COD. 3	€	Description
LA250DIS	1.990,00	Roughness taster with plug-in connector and graphic colour display
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED		

ACCESSORIES

COD. 3	€	Description
LA250SB	603,00	Graphic software + USB cable for LA250FIX and LA250CHA
LA250SB1	742,00	Graphic software + USB cable for LA250DIS
LA300100	305,00	Extension for LA249 and LA250

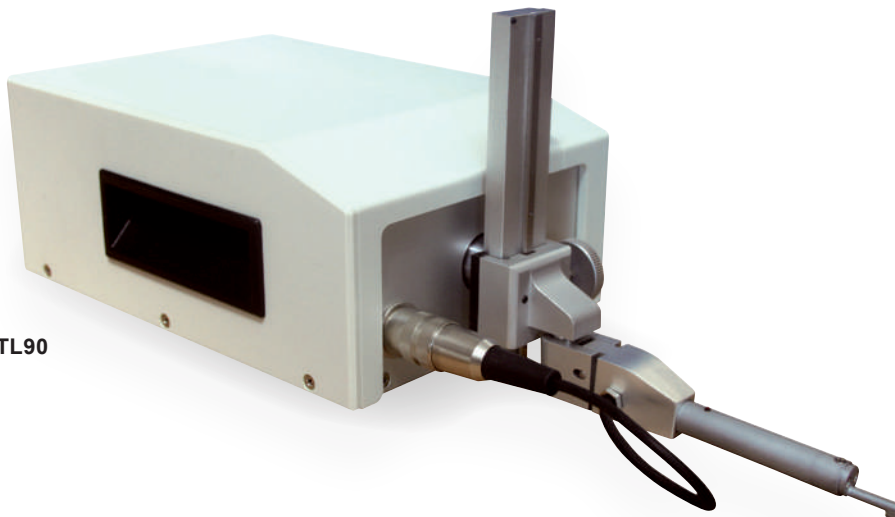
COD. 3	€	Description
LA275297ACCR	319,00	Certificated specimen 1 area / 1 parameter



TS7



LA255ST1
Manual Stand



TL90



Electronic unit
with integrate printer



High performance roughness tester

The roughness tester ALPA FT 80 thanks to its maneuverability and ease of use allows you to perform the characterization of surfaces even more complex in an easy and intuitive way. Touch screen color display 5.7" matched to the interface Icons allows the operator to set in a rapid way. The measuring parameters, position itself on the piece and run the analysis. Results and their tolerances are ready to be printed. The graphs and the parameters are interactive to permit all operators to customize the presentation of the results in an easy and fast way. ALPA FT 80 are suitable in production environments and metrology labs.

SHIFTER TL90

Laboratory amplifiers with clutch for shifting micrometer roughness measurements run 50mm. It is possible to do measurements of precision with minimum run of 0,32mm (4 x 0,08 + 0,20mm) of course run.

SHIFTER TS7

Shifter miniaturized portable with interchangeable probes. Measurement on flat and curved surfaces with axial shifting or perpendicular, prismatic support, maximum run 25mm.

54 roughness parameter

Ra, Rq, Rt, Rz, Rp, Rc, Rv, Rsk, Rku, Rsm, Rdc, RPc, Pa, Pq, Pt, Pp, Pc, Pv, Psm, Pdc, PPc, Wa, Wq, Wt, Wz, Wp, Wv, Wc, WSm, Wdc, WPC, Rk, Rpk, Pvk, Mr1, Mr2, Pt, Pdc, PPc, R, Rx, AR, Wte, W, AW, Wx, Rke, Rpk, Rvke, Mr1e, Mr2e Rmax, R3z, R3zm

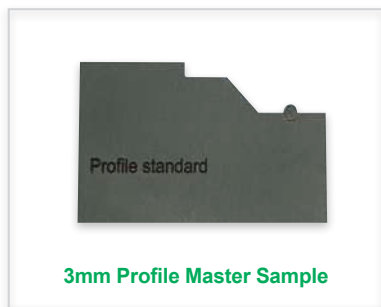
COD. 3	€	Description
LA255TS7	4.437,00	Roughness tester with TS7 compact traverse unit
LA255TL90	6.660,00	Roughness tester with TL90 professional traverse unit
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED		

ACCESSORIES

COD. 3	from €	Description
LA250SB1	742,00	Software for LA255TS7 and LA255TL90
LA255ST1	640,00	Stand 600x400mm for LA255TL90 and LA253RP
LA255ST2	2.172,00	Motorized stand
LA300100	305,00	Extension for LA255TL90 100mm



QUICK GUIDE



Portable roughness/surface profiler tester

This new roughness/surface profiler tester has a revolutionary approach to roughness measure. Wide 7 inches touch 16 million colors screen display. 75 roughness parameters following the principle international regulations. Integrated CAD system for profile analysis. Measuring range 3000µm roughness and profilometry probe. Resolution 0,1nm (0,0001µm) on 3000µm. Automatic saving of last 6 measure, manual saving up to 1000 profilometry measurements and 4000 roughness (graphics+parameters).

ROUGHNESS TESTER INCLUDE

- Roughness specimen 2.97 µm
- Roughness probe
- Profiler probe

81 roughness parameter

Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, RΔq, RΔa, Rmax, Rδc, Rmr, Rmr(c), R_{Pc}, RLo, Rlr, Rzjis, RHSC, R3z, hp, Ep, Pa, Pq, Pt, Pq, Pv, Pc, Psk, Pku, PSm, PΔq, Pδc, PPc, PLo, Plr, PHSC, Wa, Wq, Wt, Wz, Wp, Wv, Wc, Wsk, Wku, WSm, WΔq, Wδc, WPC, WLo, Wlr, WHSC, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Rpk*, Rvk*, WDSm, WDc, WDt, R, AR, Rx, W, Aw, Wx, Wte, Rke, Rpkc, Rvke, Mr1e, Mr2e, A1e, A2e

COD. 3	From €	Description
LA253RP	13.339,00	Portable roughness/surface profiler tester
LA255ST2	2.172,00	Motorized stand
LA255ST1	640,00	Manual stand
LA255PRINT	747,00	Bluetooth printer

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

FEATURES	
Range	±2500µm
Resolution	0,0001µm - (0,1nm)
Cut-off lenght	0,08 - 0,25 - 0,8 - 2,5 - 8mm
Cut-off number	Selectable from 1 to 20 (for cut-off 8mm from 1 to 6)
Travel lenght	Up to 60mm
Probe	Inductive, 90° adjustable for side measurements, interchangeable
Measurements Parameters	81 roughness parameter
Graphic Visualization	Roughness, waviness, Primary Waveness, Total, relative material ratio, probability density function
Measure Unit	mm / inches



Profil

Surface profiler

The profilometer ALPA PROFIL H200 is a new concept instrument which in a few simple operations it can characterize particular profiles of the most complex thanks to modern philosophy "all in one" with just a few operations it is immediately operative and calibrated to begin to follow measurements. Thanks to the software Profile Studio installed, ALPA PROFIL H200 is extremely easy to use for the operator.

The functions necessary for the characterization of the profile is grouped in families (point, line, arches, quote) each one has a different color for easy identification. The CAD is highly advanced: All entities are dynamic and adjustable after insertion. For more particular complexed, ALPA PROFIL H200 allows the execution of measurements and therefore the obstacles are automatically overcome (Gorges shoulders) and the profile is reconstructed at the end of the measurement. Thanks to the motorized calibration column. The circle measurement is automatically carried out guaranteeing saved time and high flexibility.

SUPPLIED WITH: H31mm standard probe, PC COMPLETE WITH MONITOR, MOUSE, KEYBOARD AND PROFILE STUDIO ANALYSIS SOFTWARE.

COD. 3	from €	Description
LA440MAN	on request	Profilometer with manual column
LA446M	304,00	Vice with jaw
LA442T3	2.554,00	3 axis positioner
LA444T4	3.080,00	4 axis positioner
LA450TAR	1.452,00	Reference specimen 45 x 45 r3 mm with RDT
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED		

FEATURES	
Range	X 220mm - Z 50mm
Column length	320mm
Resolution	X 0,5 - Z 0,1µm
Measuring speed	0,2 - 0,5 - 1 - 2mm/Sec
Dimensions (L x D x H)	1080 x 590 x 830mm



Profil

Profilometer

New easy to use profilometer with a wide measuring range. Manual column adjustment, automatic CNC measuring and positioning cycles. The pre-loaded Profile Studio software makes the ALPA PROFIL H100 extremely easy to use for the operator.

SUPPLIED WITH: H31mm standard probe, PC COMPLETE WITH MONITOR, MOUSE, KEYBOARD AND PROFILE STUDIO ANALYSIS SOFTWARE.

COD. 3	from €	Description
LA430MAN	17.900,00	Profilometer with manual column
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED		

FEATURES	
Range	X 130mm - Z 50mm
Column length	320mm
Resolution	X 0,5 - Z 0,2µm
Measuring speed	0,2 - 0,5 - 1 - 2 mm/Sec
Dimensions (L x D x H)	1030 x 410 x 660mm



H-Master



H-Master

Manual analogic Rockwell hardness tester

Hardness tester for Rockwell scale measurement on ferrous materials. Cast iron support structure, testing max height 170mm, depth capacity 165mm Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150kgf loads for Rockwell A, B, and C scales Full automatic load application. N.1 Ø 150mm flat surface for workpiece positioning, N.1 Ø 55mm flat surface and N.1 flat surface with V-shaped adapter to measure cylindrical objects.

EQUIPMENT

- n°1 Cone diamond indenter
- n°1 Ball Indenter Ø 1/16" for Rockwell B scale
- n°1 Specimen HRC 20-33
- n°1 Specimen HRC 57-70
- n°1 Specimen HRB 85-100

COD. 3	€	Description	Weight Kg
LB101AR	2.987,00	Analogue Rockwell hardness tester with automatic loading	90

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

Digital automatic Rockwell hardness tester

Hardness tester for Rockwell scale measurement on ferrous materials. Cast iron support structure, testing max height 170mm, depth capacity 165mm Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150kgf loads for Rockwell A, B, and C scales Full automatic load application. Reading on digital display. N.1 Ø 150mm flat surface for workpiece positioning, N.1 Ø 55mm flat surface and N.1 flat surface with V-shaped adapter to measure cylindrical objects.

EQUIPMENT

- n°1 Cone diamond indenter
- n°1 Ball Indenter Ø 1/16" for Rockwell B scale
- n°1 Specimen HRC 20-33
- n°1 Specimen HRC 57-70
- n°1 Specimen HRB 85-100

COD. 3	€	Description	Weight Kg
LA731DR	3.492,00	Digital Rockwell hardness tester with automatic loading	90

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

QUICK GUIDE



Schwer



Schwer

Manual analogic Rockwell hardness tester

Hardness tester for Rockwell scale measurement on ferrous materials. Cast iron support structure, testing max height 170mm, depth capacity 165mm Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150kgf loads for Rockwell A, B, and C scales Full automatic load application. N.1 Ø 150mm flat surface for workpiece positioning, N.1 Ø 55mm flat surface and N.1 flat surface with V-shaped adapter to measure cylindrical objects.

EQUIPMENT

- n°1 Cone diamond indenter
- n°1 Ball Indenter Ø 1/16" for Rockwell B scale
- n°1 Specimen HRC 20-33
- n°1 Specimen HRC 57-70
- n°1 Specimen HRB 85-100

COD. 3	€	Description	Weight Kg
LB060AR	1.535,00	Manual analogic Rockwell hardness tester	80

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

Digital manual Rockwell hardness tester

Hardness tester for Rockwell scale measurement on ferrous materials. Cast iron support structure, testing max height 170mm, depth capacity 165mm Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150kgf loads for Rockwell A, B, and C scales Full automatic load application. Reading on digital display. N.1 Ø 150mm flat surface for workpiece positioning, N.1 Ø 55mm flat surface and N.1 flat surface with V-shaped adapter to measure cylindrical objects.

EQUIPMENT

- n°1 Cone diamond indenter
- n°1 Ball Indenter Ø 1/16" for Rockwell B scale
- n°1 Specimen HRC 20-33
- n°1 Specimen HRC 57-70
- n°1 Specimen HRB 85-100

COD. 3	€	Description	Weight Kg
LA720DR	2.256,00	Digital manual Rockwell hardness tester with USB output	80

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED



H-Master

Universal anologic hardness tester

Universal anologic hardness test with the following features:

- Rockwell (HRA, HRB, HRC), Brinell, Vickers scales
- Cast iron structure, maximum height testing piece 170 mm, max depth 165 mm
- Motorized and temporized load application
- Pre-load 10 kgf, load 60-100-150 kgf for Rockwell A, B,C scales
- Load 31,2-62,5-187,5 kgf for Brinell scales
- Load 30-100 kgf for Vickers scales
- For Rockwell scales reading on analogue dial gauge
- For Brinell and Vickers scales reading with microscope included in the base scope

EQUIPMENT

- n°1 Diamond Rockwell Indenter
- n°1 Diamond Vickers Indenter
- n°1 Ball Indenter Ø 1/16" for Rockwell B scale
- n°1 Ball Brinell Indenter Ø 2,5 mm
- n°1 Ball Brinell Indenter Ø 5 mm
- n°1 Specimen HRC 20-33
- n°1 Specimen HRC 57-70
- n°1 Specimen HRB 85-100
- n°1 Specimen HV 30

COD. 3	€	Description	Weight Kg
LB151AU	4.017,00	Universal analogue hardness tester with automatic loading	100
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED			

UNIVERSAL ACCESSORIES

COD. 3	€	Description
LB430TAV	470,00	Table
LB450HRC	185,00	Cone diamond Rockwell indenter
LB450HRB	117,00	Ball Indenter Ø 1/16" Rockwell B
LB450HV	215,00	Piramid diamond Vickers indenter
LB45025HB	125,00	Ball Brinell Indenter 2,5 mm
LB45050HB	138,00	Ball Brinell Indenter 5 mm



QUICK GUIDE



Tragbares Ultraschall-Härteprüfgerät.

Das tragbare Ultraschall-Härteprüfgerät löst das klassische Problem der tragbaren Rückprall-Härteprüfgeräte (Leeb), die für zuverlässige Härtemessungen Bauteile mit einer Masse von mindestens ca. 5 kg benötigen. Dieses universelle Gerät ist sowohl mit der klassischen Rückprallsonde als auch die Ultraschallsonde für kleinere Bauteile oder Oberflächenhärte verwendbar, was es zu einem sehr vielseitigen Instrument macht.

Der Lieferumfang umfasst das Gerät, die Rückprallsonde, die Ultraschallsonde und die Härtevergleichsplatte.

CODE 1	€	Härteskalen
LA7562	5.250,00	HL, HV, HB, HRC, HRB, HRA, HS

Leeb impact hardness tester

Measuring methods: Leeb and scales HL, HB, HRB, HRC, HV, HS, σ_b .
 Measuring range: HLD (200-960) / HRC (19.8-68.5) / HRB (13.5-100) / HB (30-651) / HV (80-976) / HS (26.4-99.5) / σ_b (375-2639), with D type probe (Standard). Accuracy: ± 6 HLD (HLD=800), repeatability < 6 HLD (HLD=800). Impact direction: 360° selectable. Materials: iron, cast iron, stainless steel, aluminium, etc. Minimum measurable piece weight: 5 Kg. Display: luminated LCD display in english. Memory: 100 groups. USB connection (Standard) with software included and 2 1.5V AA type batteries. Standard GB/T 17394-1998, ASTM A956.

COD. 1	€	Measuring methods
LA758D	1.360,00	HL, HB, HRB, HRC, HV, HS



LB202A
Shore A



LB202D
Shore D



Shore A/D Hardness Tester

Analogue hardness tester for rubber, plastic, sponge and similar. This tool sows directly the Shore A and Shore D values.

COD. 1	€	Range	Dimensions mm	Excursion mm	Weight Kg
LB202A	160,00	0 - 100	115 x 60 x 25	0 - 2,5	0,5
LB202D	210,00				

Shore Sample testers

COD. 1	€	Description
LB2253D	135,00	Shore D 3 pieces
LB2257A	204,00	Shore A 7 pieces



Elcometer coating thickness gauges

The Elcometer 456 is a portable instrument to measure coating thickness (Chrome, paint, rubber, etc.) on ferrous or non-ferrous metals. There are four different models available, each one with increasing functionality and could have integral or separate probe.

- Specific probes for a wide range of applications
- Large easy to read high contrast display and auto-rotating
- Measuring range 13mm with integral probe
- Measuring range 31mm with separate probe
- IP64 protection and resistant to scratches and solvents
- Supplied with calibration shims
- Accuracy starting from +/- 1%



CALIBRATION SHIM SET

COD. 1	€	Thickness
LA563060	144,00	6 Thicknesses from 25 to 1000 μm



STANDARD REPLACEMENT PROBES

Measuring range: 0-1500μm		
COD. 1	€	Description
LA544F	525,00	Ferrous integral
LA544NF	608,00	Non ferrous integral
LA544FNF	878,00	Dual FNF integral

WITH INTEGRAL PROBLE

Measuring range: 0-1500μm - Precision: ±3%		
COD. 1	€	Description
LA510FB	760,00	Ferrous integral
LA510NFB	972,00	Non ferrous integral
LA510FNF	1.226,00	Dual FNF integral

WITH INTEGRAL PROBLE AND DATA OUTPUT

Measuring range: 0-1500μm - Precision: ±3%		
COD. 1	€	Description
LA510FS	989,00	Ferrous integral
LA510FNFS	1.648,00	Dual FNF integral

WHITH SEPARATE PROBE

COD. 1	Probe	€	Description
LA525FB	+ LA544F	= 1.047,00	Ferrous integral
LA525NFB	+ LA544NF	= 1.046,00	Non ferrous integral
LA525FNFB	+ LA544FNF	= 1.518,00	Dual FNF integral

WITH SEPARATE PROBLE AND DATA OUTPUT

COD. 1	Probe	€	Description
LA525FS	+ LA544F	= 1.171,00	Ferrous integral
LA525NFS	+ LA544NF	= 1.217,00	Non ferrous integral
LA525FNFS	+ LA544FNF	= 1.627,00	Dual FNF integral

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

Not suitable for measurement on materials with a nichel content > 10%



High quality ultrasonic thickness gauge

With its design and its functionalities, it can measure simply and with accuracy a wide range of materials (steel, alloy, aluminium, copper, brass, PVC) up to 500mm*

- Simple to use
- High resistance to impacts, dust and liquids (IP54)
- High resolution display
- Selectable resolution 0,1mm or 0,01mm
- Zero set master directly on the instrument

*according to material and probe

Supplied with 5 mhz ¼ inch standard probe, coupling gel, display protection, case for transport, batteries, calibration certificate, (Elcomaster software and USB cable only versione LA505EEPE)

BASIC MODEL

COD. 1	€	Precision	Precision
LA505PE	1.566,00	± 0,1% to 19,99mm*	±0,5% from 20 to 500mm*

BLUETOOTH AND STORAGE MODEL

COD. 1	€	Precision	Precision
LA505EEPE	2.524,00	± 0,05% to 9,99mm*	±0,5% from 10 to 500mm*

*on steel

ASSEMBLY, FITTING AND TRAINING NOT INCLUDED

STANDARD PROBE

COD. 1	€	Description	Diameter
LA5419014	726,00	90°	1/4"

COPULING GEL

COD. 1	€	Quantity ml
LA539120	26,00	120
LA5391205	124,00	600



Dewpoint meter

Dewpoint Meter is a lightweight handy device that is able to read surface temperature, air temperature and relative humidity simultaneously. With these three values the gauge is then able to determine the dewpoint temperature, delta temperature, wet bulb temperature, and specific humidity. The Dewpoint Meter allows the user to setup maximum and minimum limits for all measurements and a alarm can also be setup to alert when any user defined values are exceeded. The Dewpoint Meter comes with internal memory to store your data. The data can then be retrieved to any PC via USB interface or Bluetooth connection using the Elcometer software provided.

COD. 1	€	Integral probe Range	Separate probe Range	Relative humidity Range
LA660S	843,00	-20 ÷ 80°C	-40 ÷ 200°C	0 ÷ 100%
LA660T	1.043,00			



Cross hatch cutter

The Cross hatch cutter for adhesion test provides an instant assessment of the quality of the bond to the substrate.

- Robust design
- Large, non slip grip
- Ideal for thin, thick or hard coatings
- A quick change, 4 sided cutter allows adhesion testing on a wide range of coating thicknesses (1-1,5-2-3 mm)

COD. 1	€	Description	Coating thickness
LA527KIT61	361,00	Full Kit with ISO tape	0 - 60µm
LA527KIT62	361,00	Full Kit with ISO tape	0 - 120µm

COD. 1	€	Description	ISO
LA531BL61	149,00	Four sided cutter blade: 6x1mm	•
LA531BL62	149,00	Four sided cutter blade: 6x2mm	•
LA535ADT	67,00	ISO2409 adhesive tape	•



PRICE ON REQUEST

new

 **A-Line**

TRIMOS A3 3D measuring arm

Innovative compact 6-axis measuring arm for extremely simple and precise 3D measurement. The A3 series is the most accurate measuring arm range on the market. Its peculiarity is its small size, which allows it to be carried and used practically anywhere. The arm in 6-axis configuration is available with a measuring range of 1.3m and 1.8m. Carbon fibre tubes and an aluminium mounting base give the A3 boom an extremely stable and lightweight structure. Its external counterweight ensures excellent ergonomics and manoeuvrability. A3 measuring arms can be connected to any type of measuring software. For most workshop applications we suggest Aberlink 3D software. Aberlink's philosophy is to make measurement simple and effective.

COD. P	Measuring range mm
LA1441300	1300
LA1441800	1800

FEATURES

- Compatible with Aberlink 3D measurement software
- Compact and portable design
- USB or Wireless connectivity
- Fixed or interchangeable probe
- External counterweight for better balance and stability
- Easy single-handed use

FEATURES	
Accuracy	(5 + L/50) µm (5 + L/40) µm
Operating temperature	5 - 40 °C
Protection class	IP54



PRICE ON REQUEST



CNC manual measuring machine

Fulcrum is a revolutionary CMM with 3 rotating axes, enabling it to have a compact and portable design in order to be used wherever needed, in the production department next to the machine tools, in the quality control department or at the premises of third parties. It is designed to optimize inspection times and improve the production process without having to wait for feedback from quality control, thereby avoiding production slowdowns. The software has been made even simpler, while maintaining the full functionality of traditional measuring machines. After the part has been inspected manually, its features are recognized immediately and the measured dimensions are displayed automatically. The intuitive software, ease of use and innovative design allow even less experienced operators to very quickly inspect the components to be measured. The intuitive buttons allow you to switch quickly between functions without having to use the mouse and parts can be placed anywhere on the measuring surface. Fulcrum will become the preferred tool for quick and precise inspections.

COD. P	Measuring range mm
LA145280	280 x 280 x 725

FEATURES

- Compact and portable design
- Easy single-handed use
- Shortcut keys to switch between functions
- Onboard machine use
- No air pressure required
- PC with software included
- Free software updates

FEATURES	
Measuring volume	5.0 µm*
Scale resolution	00.4µm
Operational operation range	18 - 22 °C
Operating temperature	5 - 45 °C

* The machine must not be subjected to sudden changes in temperature; maximum variation of 1° per hour



PRICE ON REQUEST



 **Spider**

New 3D shopfloor CNC measuring machine

Designed for robustness and reliability the new ALPA SPIDER 30 and 520 offer the maximum performance also in uncontrolled environments. Small footprint, temperature control and the no need of air pressure allow the machine positioning where the measurement is needed in the workshop or in a fully automated production area. Robust, accurate and reliable the ALPA SPIDER 370 and 520 can reduce the testing cycle times maintaining maximum efficiency.

FEATURES

- Fully sealed recirculating bearings movement
- Air pressure not required
- Five temperature Sensors
- Fast and reliable measuring system
- Easy and user friendly 3D software
- Free Software Updates

COD. P	Range mm
LA138370	XY 370 Ø - Z 270
LA138520	XY 520 Ø - Z 300

Possibility with continuous scanning.

FEATURES	
Measuring volume	(2.6 + 0.4 L/100) µm*
Scale resolution	0.1µm
Operational operation range	5 - 45 °C
Table	Solid granite plate
Table load capacity	200kg
Max drive speed	500mm/sec

* Max. MPEE admitted error, subject to the optimal temperature between 18 ° C and 22 ° C and Δ < 1 ° C / h or < 2 ° C / 24h



PRICE ON REQUEST



Trust ST

Manual and CNC 3D measuring machine

Thanks to modern technology in the development and construction, the coordinate machines ALPA TRUST ST guarantee speed, precision and reliability on all types of measurements. They may be used with touch trigger probe and continuous scanning probe or with camera system. The structure is in light alloys which guarantees excellent performance even in the absence of a controlled temperature. Through Innovative software Aberlink 3D it is possible to program the temperature compensation depending on workpiece material, this makes the machine ALPA TRUST ST also ideal for use in the shopfloor. The movement of the axes is through the intuitive joystick for fast and reliable measurement performances.

FEATURES

- Axis measuring range Y from 600 to 1500 mm
- Protection from environmental vibrations
- Smooth and fast movement thanks to air bearings
- Available with different head / probe configurations
- Granite top with aluminum honeycomb
- **Free software update**

ACCESSORIES AVAILABLE (pag. L.38 catalogue)

MANUAL

COD. P	Range mm
LA140600	X 640 Y 600 Z 500
LA140900	X 640 Y 900 Z 500

CNC

COD. P	Range mm
LA150600	X 640 Y 600 Z 500
LA150900	X 640 Y 900 Z 500

Other measuring ranges available (pag. L. 32 and L. 34)

FEATURES	
Accuracy	TP20 (2.4 + 0.4 L/100) µm* TP200 (2.3 + 0.4 L/100) µm* SP25M (2.1 + 0.4 L/100) µm*
Scale resolution	0.5µm
Optimum temperature range	18 - 22 °C
Operational operation range	0 - 45 °C
Table	Granite with honeycomb
Table load capacity	300kg (honeycomb) - 500kg (solid)

* Max. MPEE admitted error, subject to the optimal temperature between 18 °C and 22 °C and Δ <1 °C / h or <2 °C / 24h



PRICE ON REQUEST



FIXING KIT 111 pz.

COD. 1	€	Composition
LA171FK-L	2.500,00	Base 650 x 450 mm
LA171FK-M	2.285,00	Base 450 x 450 mm
LA171FK-S	2.185,00	Base 300 x 450 mm

Trust LS

Automatic 3D measuring machine

Alpha Trust LS machines are the exspression of maximum technological innovation applied to 3D measurements. The unique movement system with linear motors alloud a faster and smooth positioning with high accuracy. The new bridge specifics give an excellent versatility while maintaining very compact overall dimensions.

FEATURES

- Axis measuring range Y from 1000 to 2000 mm
- Linear motors with fast and smooth motion
- Guides applied on the center of gravity for better speed and accuracy
- Motors thermally isolated from meteorological sensitive components
- Smooth movement ideal for continuous scanning
- Available with different head / probe configurations
- Granite top
- Aberlink 3D software and Joystick
- **Free software update**

ACCESSORIES AVAILABLE (pag. L.38 catalogue)

COD. P	Axis travel X - Y - Z
LA1551000LS	800 x 1000 x 600
LA1551600LS	800 x 1600 x 600

FEATURES	
Accuracy	TP8 (1.9 + 0.4 L/100) µm* TP20 (1.9 + 0.4 L/100) µm* TP200 (1.8 + 0.4 L/100) µm* SP25M (1.75 + 0.4 L/100) µm*
Scale resolution	0,1µm
Optimum temperature range	18 - 22 °C
Operational temperature range	0 - 45 °C
Table load capacity	500kg
Max drive speed	1020mm/sec

* Max. MPEE admitted error, subject to the optimal temperature between 18 ° C and 22 ° C and Δ <1 ° C / h or <2 ° C / 24h



FIXING KIT 111 pz.

COD. 1	€	Composition
LA171FK-L	2.500,00	Base 650 x 450 mm
LA171FK-M	2.285,00	Base 450 x 450 mm
LA171FK-S	2.185,00	Base 300 x 450 mm

Halo

Automatic 3D measuring machine

The Halo CNC CMM has the same structural design as our most accurate CMM, the Horizon. The halo is the medium-sized CMM that, unlike the Horizon, uses a belt drive system for the movement of the X-Y-Z axes. A machine with fast and fluid movements, it is ideal for contact scanning with an accuracy in excess of 1.8 microns! The price is also extremely competitive compared to other international CMM brands, beyond its unrivalled reliability and durability.

FEATURES

- Y-axis measurement range from 1000 to 1600 mm
- Linear motors with silent, sliding and frictionless movement
- Centre of gravity guides for better speed and accuracy
- Motors thermally isolated from metrologically sensitive components
- Soft movement ideal for continuous scanning
- Supplied with different head/probe configurations
- Granite plate
- Aberlink 3D software and magnetic joystick
- **Free software update**

ACCESSORIES AVAILABLE (page L.38 catalogue)

COD. P	Corsa assi X - Y - Z
LA1611000HA	800 x 1000 x 600
LA1611600HA	800 x 1600 x 600

FEATURES	
Accuracy	TP20 (2.1 + 0.4 l/100) µm* TP200 (2.0 + 0.4 l/100) µm* SP25M (1.8 + 0.4 l/100) µm*
Row resolution	0.1µm
Optimal temperature	18 - 22 °C
Operating temperature	5 - 45 °C
Load capacity	1000 kg.
Max. travel speed	1020mm/sec

* Max. permissible error MPEE, subject to the optimum temperature between 18°C and 22°C and Δ <1°C/h or <2°C/24h

PRICE ON REQUEST

new



Venture FV

Automatic 3D optical machine

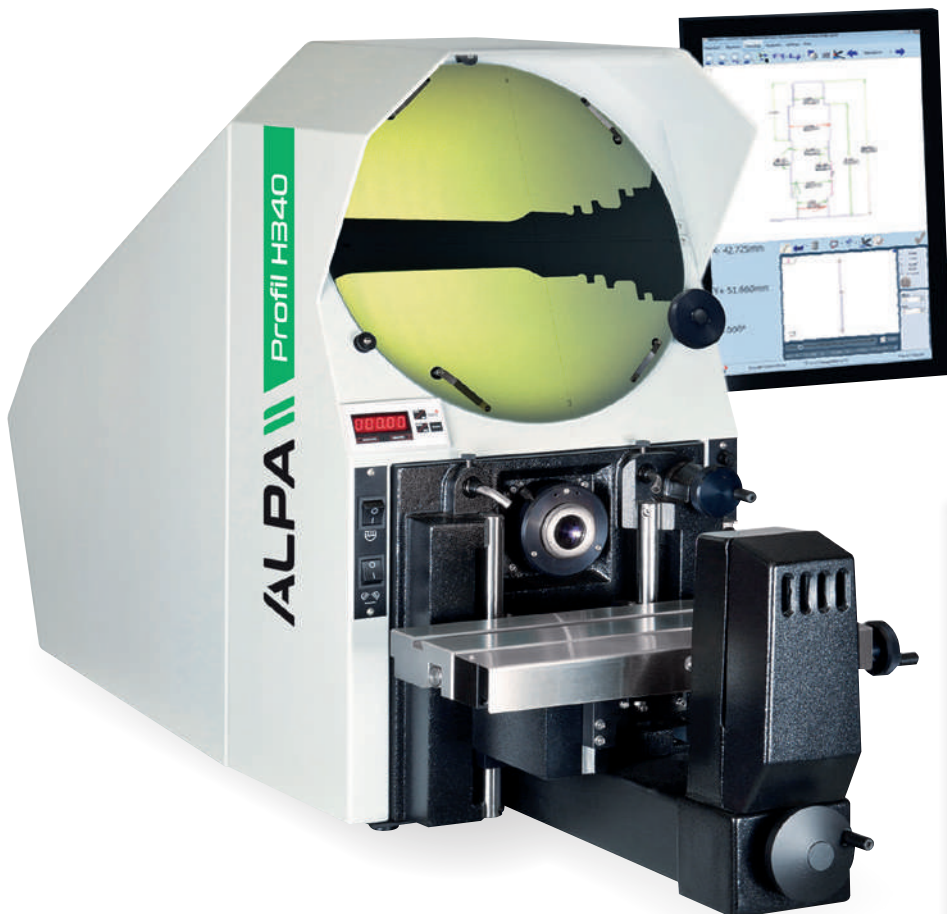
The new ALPA SCOPE is the maximum expression of Baty technology applied to optical machines. The large measuring range 300x300x200mm, the touch probe, the FUSION software and the high resolution camera (3.22 Megapixels), allow fast, complete, affordable and accurate measurements. The maximum measuring height is 200mm. Non-contact measurement is made through motorized zoom optics: magnification from 20x to 350x, 19" monitor and collimated profile lighting. Contact measurement is made through Renishaw TP20 touch probe and accessories. 64 LED fully programmable segmented surface lighting system and TTL (coaxial surface lighting). WINDOWS 7 or following edition compatible, FUSION measuring system.

FEATURES

- High resolution 0,5µm scales for increased accuracy E1 (2+L/100) µm
- 300x300x200mm measuring range, plate with light alloy column
- 3.2 Megapixels camera, motorized micro-zoom optics
- Renishaw TP20 touch probe and accessories
- Double 19" LCD monitor as standard
- Master for setting pixels as standard, accuracy E1(2+L/100) µm

COD. P	Working plate mm	Range mm
LA110250	X 414 Y 262	X 250 Y 125 Z 155
LA110300XT	X 464 Y 462	X 300 Y 300 Z 200

FEATURES	
Accuracy	2+L/100µm
Scale resolution	0.5µm
Type of movement	Motorized CNC
Max drive speed	200mm/s
Magnification	Optical zoom 20x - 350x
Max. load	25kg



PLASTIFORM silicone resin



For information and prices see P. 58 of the Primatek promo



Profil

Horizontal profile projectors

ALPHA PROFIL H340 is a horizontal profile projector indicated for the inspection of details of small and medium dimensions. Thanks to the large workspace and the possibility of excluding the direct light, it is also recommended for the control of the surface of cutting tools and long items.

Lens not included.

VERSION FT2-E (with readout LA026FT2)

Integrated measuring system with touch screen technology, with screen mounted automatic profile edge sensor. Thanks to the software 2D fusion it is possible to measure in a quick and easy way. All automatically with the same parameters set up in advance.

LENSES

COD. 3	€	Description
LA02510	1.470,00	Lens magnification 10x
LA02520	1.210,00	Lens magnification 20x
LA02550	1.134,00	Lens magnification 50x

COD. 3	from €	Description
LA020FT	13.500,00	Projector with readout FT2-E
LA026FT2	4.289,00	Readout FT2-E
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED		

FEATURES	
Range	175 x 100mm
Work Stage	325 x 100mm chromed and ground steel
Light source	Surface with optic fiber Profile Illumination with halogen lamp
Scale resolution	0,5µm
Screen Diameter	340mm
Max. load	10kg



From
8.137€*
*INSTALLATION UND
ASSEMBLY, FITTING
AND TRAINING ARE NOT
INBEGRIFFEN



Profil

Vertical profile projectors

The profil vertical projector ALPA PROFIL V300 is versatile accurate and easy to use. It is equipped for quick release movement (stroke 150x50mm) readout 3 axes (x, y, angles) and geometry processor for the calculation of rays, diameters, angles and distances. Clear and defined images for particular complex measurements up to 43mm of height and 15 kg of weight. Perfect illumination of the profile and the illumination of the profile and the surface with half reflective mirror.

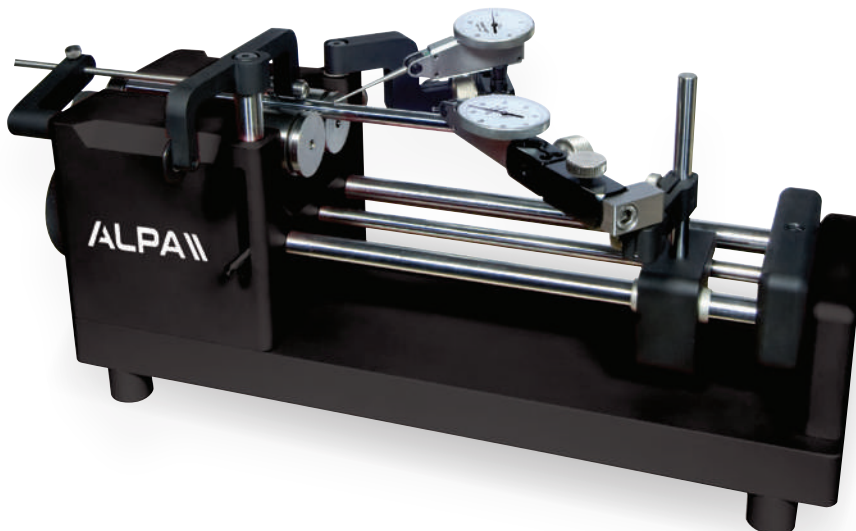
10x Lens included.

LENSES

COD.	€	Description
LA05520	679,00	Lens magnification 20x
LA05550	843,00	Lens magnification 50x
LA055100	873,00	Lens magnification 100x

COD. 3	Description
LA050DP400	Vertical light path profile projector Ø 300mm screen, display DP100
LA050DP400RO	Vertical screen projector Ø 300 mm with DP400 visualiser, automatic stitch setting
ASSEMBLY, FITTING AND TRAINING NOT INCLUDED	

FEATURES	
Range	150 x 50mm
Work Stage	340 x 152mm
Light source	Surface / Profile illumination
Scale resolution	0,5µm
Screen Diameter	300mm
Max. load	15kg



Concentricity and roundness control bench

Light alloy structure, hardened stainless steel rotors, 3 movable supports for dial gauge, hand wheel, plane strap transmission. Provided in ABS case. Dial gauges to be ordered separately.

COD. 1	€	Range mm	Accuracy mm	Weight Kg
CT01050	3.429,00	1,5 ÷ 50	± 0,002	8,5
CT010100	4.823,00	10 ÷ 100		12



Measurement table

Instrument for inside/outside comparative measurements, ideal for mass measurement. Light alloy structure, hardened stainless steel plane, interchangeable tips, inside/outside precharge. Suitable for measurement of work pieces with parallel, cylindrical or conical surfaces (such as shafts, through holes, blind bores, short shoulders, grooves and wall thickness). It checks gear diameter and points out roundness, concentricity and coaxiality errors. Provided with 2 stirrups, 0,01 dial gauge and ABS case.

COD. 1	€	Range mm	Repeatability mm	Weight Kg	Dimensions mm
CT020200	2.990,00	0 ÷ 200	± 0,001	6,3	255 x 150
CT020330	4.641,00	0 ÷ 330		7,1	406 x 180

Refer to Alpa catalogue for accessories

PRICE LIST FOR CALIBRATION



BORE GAUGES - CALIBRATION REPORT

DESCRIPTION	Price €
Single bore gauge	40.00

BORE GAUGES - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Single bore gauge	95.00

N.B. The bore gauge is calibrated in combination with the laboratory reader. The dial gauge is to be considered separately.



SETTING RODS - CALIBRATION REPORT

DESCRIPTION	Price €
From 0 to 100 mm	20.00
From 125 to 300 mm	42.00
From 301 to 600 mm	75.00
From 601 to 1000 mm	130.00
From 1001 to 2000 mm	250.00
From 2001 to 5000 mm	300.00

SETTING RODS - CALIBRATION CERTIFICATE

DESCRIPTION	Price €
From 0 to 100 mm	50.00
From 125 to 300 mm	90.00
From 301 to 600 mm	125.00
From 601 to 1000 mm	250.00
From 1001 to 2000 mm	300.00
From 2001 to 5000 mm	350.00

ALTIMETERS AND SURFACE GAUGES - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 300 mm	110.00
Up to 600 mm	165.00
Up to 800 mm	205.00
Up to 1000 mm	220.00
Up to 1500 mm	285.00
Master block for exteriors or fork for interiors	70.00
Master for interiors and exteriors	140.00

ALTIMETERS AND SURFACE GAUGES - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Up to 300 mm	165.00
Up to 600 mm	210.00
Up to 800 mm	290.00
Up to 1000 mm	310.00
Master block for exteriors or fork for interiors	110.00
Master for interiors and exteriors	220.00



RESET RING CALIBRATION REPORT

DESCRIPTION	Price €
From 0.5 to 1.99 mm	90.00
From 2 to 4.99 mm	50.00
From 5 to 50 mm	16.00
Over 50 to 100 mm	26.00
Over 100 to 200 mm	35.00
Over 200 to 300 mm	46.00

RESET RING CALIBRATION CERTIFICATE



DESCRIPTION	Price €
From 0.5 to 1.99 mm	130.00
From 2 to 4.99 mm	80.00
From 5 to 50 mm	50.00
Over 50 to 100 mm	55.00
Over 100 to 200 mm	70.00
Over 200 to 300 mm	100.00



GO/NO GO THREADED RINGS CALIBRATION REPORT

DESCRIPTION	Price €
Low to 5 mm	48.00
From 2 to 5 mm	25.00
Over 5 to 50 mm	20.00
Over 50 to 100 mm	32.00
Over 100 to 200 mm	60.00

GO/NO GO THREADED RINGS CALIBRATION CERTIFICATE



DESCRIPTION	Price €
From 2 to 5 mm	105.00
Over 5 to 50 mm	65.00
Over 50 to 100 mm	70.00
Over 100 to 200 mm	100.00



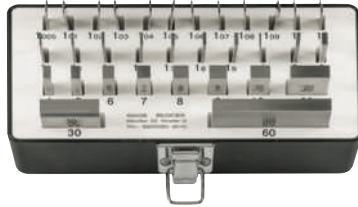
CONICAL THREADED RINGS CALIBRATION REPORT

DESCRIPTION	Price €
1/8" to 1"	49.00

CONICAL THREADED RINGS CALIBRATION CERTIFICATE



DESCRIPTION	Price €
1/8" to 4"	275.00



FLAT-PARALLEL BLOCKS UP TO 100 mm - CALIBRATION REPORT

DESCRIPTION	Price €
Single block	25.00
From 2 to 9 pcs.	18.00
Over 9 pcs.	13.00
Set of 10 pcs.	65.00
Set of 32 pcs.	215.00
Set of 47 pcs.	265.00
Set of 87 pcs.	480.00
Set of 103 pcs.	540.00
Set of 112 pcs.	590.00
Set of 122 pcs.	640.00

Measurement of deviation at centre: 1 point in the centre of the measuring faces

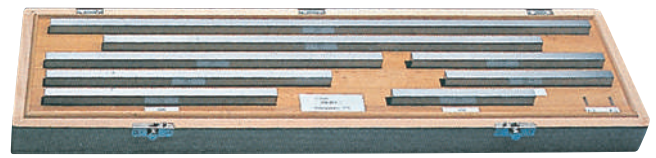
FLAT-PARALLEL BLOCKS UP TO 100 mm - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Single block	30.00
From 2 to 9 pcs.	21.00
Over 9 pcs.	16.00
Set of 10 pcs.	70.00
Set of 32 pcs.	225.00
Set of 47 pcs.	290.00
Set of 87 pcs.	580.00
Set of 103 pcs.	650.00
Set of 112 pcs.	700.00
Set of 122 pcs.	750.00

Measurement of deviation at centre: 1 point in the centre of the measuring faces

Measurement of change in length: an additional 4 points at the vertices of the measuring faces



BLOCKS OVER 100 mm LONG - CALIBRATION REPORT

DESCRIPTION	Price €
Single block from 100 to 300 mm	70.00
Single block from 300 to 600 mm	95.00
Single block from 600 to 1000 mm	220.00
Set of 8 blocks from 125 to 600 mm	700.00

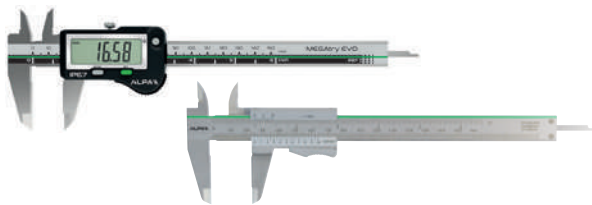
Measurement of deviation at centre: 1 point in the centre of the measuring faces

BLOCKS OVER 100 mm LONG - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Single block from 100 to 300 mm	125.00
Single block from 300 to 600 mm	145.00
Single block from 600 to 1000 mm	320.00
Set of 8 blocks from 125 to 600 mm	800.00

Measurement of deviation at centre: 1 point in the centre of the measuring faces



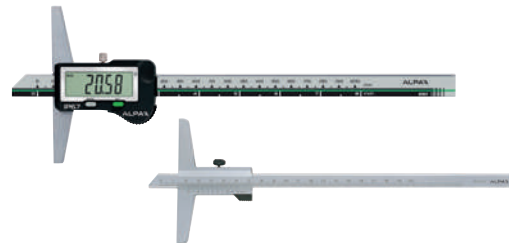
SLIDE CALIPERS - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 150 mm	28.00
Up to 200 mm	32.00
Up to 300 mm	48.00
Up to 500 mm	85.00
Up to 800 mm	100.00
Up to 1000 mm	120.00
Up to 2000 mm	180.00
Up to 5000 mm	230.00

SLIDE CALIPERS - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Up to 150 mm	60.00
Up to 200 mm	65.00
Up to 300 mm	95.00
Up to 500 mm	115.00
Up to 800 mm	155.00
Up to 1000 mm	190.00
Up to 2000 mm	250.00
Up to 5000 mm	350.00



DEPTH CALIPERS - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 150 mm	28.00
Up to 200 mm	32.00
Up to 300 mm	48.00
Up to 500 mm	85.00
Up to 800 mm	100.00
Up to 1000 mm	120.00

DEPTH CALIPERS - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Up to 150 mm	60.00
Up to 200 mm	65.00
Up to 300 mm	95.00
Up to 500 mm	115.00
Up to 800 mm	155.00
Up to 1000 mm	190.00

HARDNESS TESTER - CALIBRATION REPORT

DESCRIPTION	Price €
INDIRECT verification for 1 scale	upon request
INDIRECT verification - Scale in addition to the first one	upon request

N.B. The cost for on-site technical assistance is not included.

HARDNESS TESTER - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
DIRECT and/or INDIRECT verification for 1 scale	upon request
DIRECT and/or INDIRECT verification - Scale in addition to the first one	upon request

N.B. The cost for on-site technical assistance is not included.



PORTABLE HARDNESS TESTERS - CALIBRATION REPORT

DESCRIPTION	Price €
Hardness testers for Shore rubber	160.00
LEEB portable rebound hardness testers	150.00
Ultrasonic hardness testers UCI	160.00

PORTABLE HARDNESS TESTERS CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Hardness testers for Shore rubber	200.00
LEEB portable rebound hardness testers	250.00
Ultrasonic hardness testers UCI	280.00



DIAL GAUGES - CALIBRATION REPORT

DESCRIPTION	Price €
Travel of up to 12.5 mm	29.00
Travel of up to 30 mm	32.00
Travel of up to 50 mm	40.00
Travel of up to 100 mm	45.00

DIAL GAUGES - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Travel of up to 12.5 mm	65.00
Travel of up to 30 mm	70.00
Travel of up to 50 mm	80.00
Travel of up to 100 mm	85.00



MICROMETERS FOR EXTERNAL MEASUREMENTS - CALIBRATION REPORT

DESCRIPTION	Price €
From 0 to 25 mm	33.00
From 25 to 50 mm	38.00
From 50 to 75 mm	39.00
From 75 to 100 mm	42.00
From 100 to 200 mm	58.00
From 200 to 300 mm	90.00
From 300 to 400 mm	100.00

The prices shown above refer to the calibration of the micrometers only and do not include any setting rods.

MICROMETERS FOR EXTERNAL MEASUREMENTS CALIBRATION CERTIFICATE



DESCRIPTION	Price €
From 0 to 25 mm	70.00
From 25 to 50 mm	90.00
From 50 to 75 mm	100.00
From 75 to 100 mm	110.00
From 100 to 200 mm	120.00
From 200 to 300 mm	140.00
From 300 to 400 mm	160.00

The prices shown above refer to the calibration of the micrometers only and do not include any setting rods.

MICROMETER FOR INTERNAL MEASUREMENTS WITH MODULAR RODS - CALIBRATION REPORT

DESCRIPTION	Price €
Vernier measuring head	48.00
Extension up to 100 mm	22.00
Extension from 110 to 150 mm	28.00
Extension from 200 to 500 mm	33.00



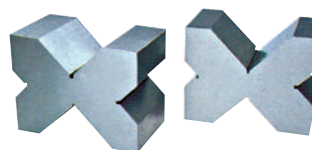
MICROMETER FOR INTERNAL MEASUREMENTS WITH MODULAR RODS - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Vernier measuring head	100.00
Extension up to 100 mm	35.00
Extension from 110 to 300 mm	45.00
Extension from 300 to 500 mm	55.00

INSPECTION PLATE - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 630 x 400 mm	165.00
Up to 800 x 500 mm	205.00
Up to 1000 x 630 mm	205.00
Up to 1200 x 800 mm	265.00
Up to 1600 x 1000 mm	300.00
Up to 2000 x 1000 mm	360.00



PRISMS - CALIBRATION REPORT

DESCRIPTION	Price €
Parallel prisms in pairs up to 200 mm	180.00

N.B. The cost for on-site technical assistance is not included.

CALIBRATED PINS - CALIBRATION REPORT

DESCRIPTION	Price €
From 1 to 5 pcs.	20.00
From 6 to 19 pcs.	6.00
From 20 to 50 pcs.	4.50
Over 50 pcs.	3.50

CALIBRATED PINS - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
From 1 to 5 pcs.	25.00
From 6 to 19 pcs.	9.00
From 20 to 50 pcs.	6.00
Over 50 pcs.	5.00



COATING THICKNESS METER OR ULTRASONIC METER CALIBRATION REPORT

DESCRIPTION	Price €
Up to 10 mm (with 1 ferrous probe and/or 1 non-ferrous probe)	125.00
Thickness sample (single)	25.00
Thickness samples 6 pieces	120.00

COATING THICKNESS METER OR ULTRASONIC METER CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Up to 10 mm (with 1 ferrous probe and/or 1 non-ferrous probe)	250.00
Thickness sample (single)	40.00
Thickness samples 6 pieces	190.00



PRICE LIST FOR CALIBRATION

CONICAL THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	Price €
From 1/16" to 1"	41.00
From 1" -1/8 to 2"	54.00
From 2" -1/8 to 3"	65.00
From 3" -1/8 to 4"	98.00



CONICAL THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	Price €
From 1/16" to 4"	260.00



GO/NO GO THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 50 mm	25.00
Over 50 to 100 mm	35.00
Over 100 to 200 mm	50.00

GO OR NO GO THREADED PLUGS - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 50 mm	18.00
Over 50 to 100 mm	24.00
Over 100 to 200 mm	37.00

GO/NO GO THREADED PLUGS - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Up to 50 mm	65.00
Over 50 to 100 mm	70.00
Over 100 to 200 mm	90.00

GO/NO GO THREADED PLUGS - CALIBRATION CERTIFICATE



DESCRIPTION	Price €
Up to 50 mm	55.00
Over 50 to 100 mm	60.00
Over 100 to 200 mm	80.00

GO/NO GO LIMIT PLUGS - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 50 mm	10.00
Over 50 to 100 mm	19.00
Over 100 to 200 mm	29.00
Over 200 to 300 mm	35.00



GO/NO GO LIMIT PLUGS - CALIBRATION CERTIFICATE

DESCRIPTION	Price €
Up to 50 mm	55.00
Over 50 to 100 mm	65.00
Over 100 to 200 mm	90.00
Over 200 to 300 mm	105.00

GO OR NO GO LIMIT PLUGS - CALIBRATION REPORT

DESCRIPTION	Price €
Up to 50 mm	8.00
Over 50 to 100 mm	13.00
Over 100 to 200 mm	20.00
Over 200 to 300 mm	27.00



GO OR NO GO LIMIT PLUGS - CALIBRATION CERTIFICATE

DESCRIPTION	Price €
Up to 50 mm	45.00
Over 50 to 100 mm	50.00
Over 100 to 200 mm	55.00
Over 200 to 300 mm	85.00



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