



Mitutoyo

PROMOTION!

FROM APRIL 1 THROUGH MAY 31, 2018

THE MITUTOYO PROMOTION



No. 543-781B

List price: € 146

€ 113



No.	Range [mm]	Digital step [mm]	Accuracy* [mm]	Power supply	Remarks	List price €	Promotion price €
543-781B	12,7	0,01	0,02	Battery SR44	Economy type	146	113
543-505B	12,7	0,01	0,02	Solar powered from 40 Lux	Economy type	151	109
543-790B	12,7	0,001	0,003	Battery SR44	Economy type	299	235
575-121	25,4	0,01	0,02	Battery SR44	Economy type	204	149
543-400B	12,7	0,01	0,02	Battery SR44	Standard type with tol. function, 330° rotary display	259	198
543-390B	12,7	0,01/0,001	0,003	Battery SR44	Standard type with tol. function, 330° rotary display	344	240
543-470B	25,4	0,01/0,001	0,003	Battery SR44	Standard type with tol. function, 330° rotary display	412	320
543-490B	50,8	0,01/0,001	0,005	Battery SR44	Standard type with tol. function, 330° rotary display	621	489
543-300B	12,7	0,001	0,003	Battery CR2032	With MAX/Min/Range function, 330° rotary display	428	340
543-310B	12,7	0,001	0,003	Battery CR2032	For Bore Gauge applications, 330° rotary display	482	385
543-340B	12,7	0,001	0,003	Battery CR2032	Calculation type (Ax + B + Cx ⁻¹), 330° rotary display	525	415
543-570	12,7	0,01	0,02	Battery SR44	IP66 slim type with tol. function	227	172
543-575	12,7	0,01/0,001	0,003	Battery SR44	IP66 slim type with tol. function	312	239
543-580	5	0,01	0,02	Battery SR44	IP66 slim type back plunger with tol. function	253	198

* Excluding quantising error

Optional accessories

No.	Designation	Remarks	List price €	Promotion price €
905338	DIGIMATIC cable (1 m)		30	—
905409	DIGIMATIC cable (2 m)		36	—
06AFM380F	USB Input Tool Direct Cable (2 m)		104	—
02AZD790F	U-WAVE data cable with data switch		87	44
21EAA194	DIGIMATIC cable (1 m)	IP66 type	54	—
21EAA190	DIGIMATIC cable (2 m)	IP66 type	64	—
06AFM380G	USB Input Tool Direct cable (2 m)	IP66 type	104	—
02AZD790G	U-WAVE data cable with data switch	IP66 type	92	46
21EZA198	Spindle lifting lever for 12,7 mm type	Except IP66 type	8	—
540774	Spindle lifting cable (500 mm)	Except IP66 type	28	—



No.	Range [mm]	Bezel ø [mm]	Graduation [mm]	Scale	Remarks	List price €	Promotion price €
1044SB	5	40	0,01	0-100 (100-0)		52	40
2046S*	10	57	0,01	0-100 (100-0)		34	27
2046SB	10	57	0,01	0-100 (100-0)		34	27
2046SB-09	10	57	0,01	0-100 (100-0)	Shockproof	58	44
2310SB-10	10	57	0,01	0-100 (100-0)	Coaxial revolution counter	64	49
2052SB-19	30	57	0,01	0-100 (100-0)	Shockproof	112	81
3058SB-19	50	78	0,01	0-100 (100-0)	Shockproof	193	145
2109SB-10	1	57	0,001	0-100-0	Shockproof	89	72
2110SB-10	1	57	0,001	0-100 (100-0)	Shockproof	114	82
2972TB	1	57	0,01	50-0-50	One revolution type	63	49

* Lug back plate



513-401-10E



513-404-10E



513-464-10E

No.	Range [mm]	Graduation [mm]	Scale	Stylus Length [mm]	Remarks	List price €	Promotion price €
513-401-10E	0,14	0,001	0-70-0	11,2	Bezel Ø 40 mm, basic set	149	110
513-404-10T	0,8	0,01	0-40-0	17,4	Bezel Ø 40 mm, full set	115	88
513-404-10E	0,8	0,01	0-40-0	17,4	Bezel Ø 40 mm, basic set	84	65
513-464-10E	0,8	0,01	0-40-0	17,4	Bezel Ø 29 mm, basic set	135	106



No. 513-908-10E

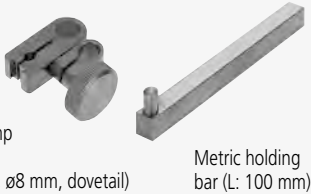
List price: ~~€ 132~~
€ 105

No.	Content includes	List price €	Promotion price €
513-908-10E	513-404-10E: Lever indicator 7014: Mini magnetic stand	132	105

EN ISO 9493

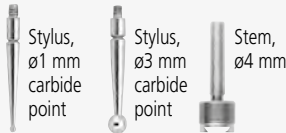
No.	Error of indication over a range of					
	Any 10 scale divisions [µm]	Any half revolution [µm]	Any full revolution [µm]	Measuring range [µm]	Hysteresis [µm]	Repeatability [µm]
513-401-10E	2	3	-	3	2	1
513-404-10E	5	6	-	8	3	3
513-404-10T	5	6	-	8	3	3
513-464-10E	5	6	-	8	3	3

Full set



Swivel clamp
(900321,
for Ø4 mm, Ø8 mm, dovetail)

Metric holding
bar (L: 100 mm)



Stylus,
Ø1 mm
carbide
point

Stylus,
Ø3 mm
carbide
point

Stem,
Ø4 mm

Basic set



Stylus,
Ø2mm
contact
point

Indicator

Knurled
clamp ring

Stem,
Ø8 mm



No. 468-168

List price: ~~€ 1.103~~

€ 875



468-168

468-983



Incl. in Set



568-926

No.	Range [mm]	Design	Accuracy* [μm]	Digital Step [mm]	Remarks	List price €	Promotion price €
468-161	6-8	Digital 3-point micrometer	± 2	0,001		921	730
468-162	8-10	Digital 3-point micrometer	± 2	0,001		941	748
468-163	10-12	Digital 3-point micrometer	± 2	0,001		957	760
468-164	12-16	Digital 3-point micrometer	± 2	0,001		978	775
468-165	16-20	Digital 3-point micrometer	± 2	0,001		988	780
468-166	20-25	Digital 3-point micrometer	± 3	0,001		1.072	849
468-167	25-30	Digital 3-point micrometer	± 3	0,001		1.072	849
468-168	30-40	Digital 3-point micrometer	± 3	0,001		1.103	875
468-169	40-50	Digital 3-point micrometer	± 3	0,001		1.124	889
468-170	50-63	Digital 3-point micrometer	± 3	0,001		1.176	934
468-171	62-75	Digital 3-point micrometer	± 3	0,001		1.186	940
468-172	75-88	Digital 3-point micrometer	± 3	0,001		1.196	949
468-173	87-100	Digital 3-point micrometer	± 3	0,001		1.243	985
468-982	12-25	Digital 3-point micrometer set	–	0,001	Incl. 3 micrometer, 2 setting rings	3.001	2.345
468-983	25-50	Digital 3-point micrometer set	–	0,001	Incl. 3 micrometer, 2 setting rings	3.162	2.410
468-984	50-75	Digital 3-point micrometer set	–	0,001	Incl. 2 micrometer, 1 setting rings	2.487	1.960
468-985	75-100	Digital 3-point micrometer set	–	0,001	Incl. 2 micrometer, 1 Setting rings	2.764	2.155
568-924	6-12	Digital 3-point Borematic set	± 5	0,001	Incl. 3 heads for snap-open Bore Gage, 2 setting rings	1.696	1.345
568-925	12-25	Digital 3-point Borematic set	± 5 (12-20 mm) ± 6 (20-50 mm)	0,001	Incl. 3 heads for snap-open Bore Gage, 2 setting rings	1.821	1.440
568-926	25-50	Digital 3-point Borematic set	± 6	0,001	Incl. 3 heads for snap-open Bore Gage, 2 setting rings	2.143	1.690
568-927	50-100	Digital 3-point Borematic set	± 6	0,001	Incl. 4 heads for snap-open Bore Gage, 2 setting rings	3.641	2.898

* Excluding quantising error

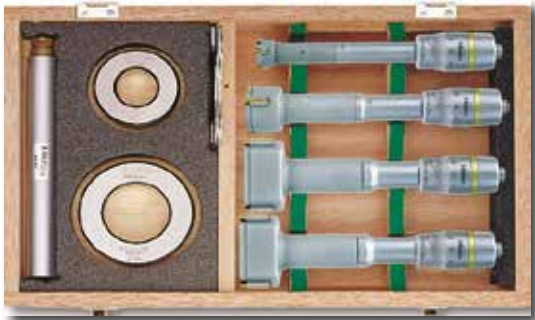
Optional accessories

No.	Designation	Remarks	List price €	Promotion price €
05CZA662	DIGIMATIC cable with data switch (1 m)		77	–
05CZA663	DIGIMATIC cable with data switch (2 m)		87	–
06AFM380B	USB Input Tool Direct cable with data switch (2 m)		119	–
02AZD790B	U-WAVE Data cable with data switch		97	49
905338	DIGIMATIC cable (1 m)	For Borematic Set	30	–
905409	DIGIMATIC cable (2 m)	For Borematic Set	36	–
06AFM380F	USB Input Tool Direct cable (2 m)	For Borematic Set	104	–
02AZD790F	U-WAVE data cable with data switch	For Borematic Set	87	44

No. 368-911

List price: ~~€ 879~~

€ 709



368-913



368-912



368-914

No.	Range [mm]	Design	Accuracy [μm]	Graduation [mm]	Remarks	List price €	Promotion price €
368-911	6-12	3-point internal micrometer set	± 2	0,001	Incl. 3 micrometers, 2 setting rings	879	709
368-912	12-20	3-point internal micrometer set	± 2	0,005	Incl. 2 micrometers, 1 setting rings	760	609
368-913	20-50	3-point internal micrometer set	± 3	0,005	Incl. 4 micrometers, 2 setting rings	1.743	1.335
368-914	50-100	3-point internal micrometer set	± 3	0,005	Incl. 4 micrometers, 2 setting rings	2.049	1.630



No. 511-921

List price: ~~€ 439~~

€ 330



543-310 B Indicator designed for inside diameter measurement
(Available as an option, see Page 2)

No.	Range [mm]	Graduation [mm]	Accuracy [μm]	List price €	Promotion price €
511-921	18-150	0,01	2	439	330

No. 516-963-10

List price: € ~~1.316~~

€ 910



516-363-10



516-942-10



516-347-10 (Picture similar to product)

No.	Blocks/set	Material	Grade	Accuracy	Certificate of inspection	List price €	Promotion price €
516-962-10	47	Steel	0	EN ISO 3650	■	1.729	1.300
516-963-10	47	Steel	1	EN ISO 3650	■	1.316	910
516-964-10	47	Steel	2	EN ISO 3650	■	1.072	820
516-942-10	103	Steel	0	EN ISO 3650	■	3.322	2.498
516-943-10	103	Steel	1	EN ISO 3650	■	2.464	1.829
516-362-10	47	Ceramic	0	EN ISO 3650	■	2.628	2.080
516-363-10	47	Ceramic	1	EN ISO 3650	■	2.197	1.680
516-346-10	87	Ceramic	0	EN ISO 3650	■	4.448	3.230
516-347-10	87	Ceramic	1	EN ISO 3650	■	3.536	2.660

Block allocation 47		
Size	Step	Quantity
1,005	–	1
1,01–1,19	0,01	19
1,2–1,9	0,1	8
1–9	1	9
10–100	10	10

Block allocation 87		
Size	Step	Quantity
1,001–1,009	0,001	9
1,01–1,49	0,01	49
0,5–9,5	0,5	19
10–100	10	10

Block allocation 103		
Size	Step	Quantity
1,005	–	1
1,01–1,49	0,01	49
0,5–24,5	0,5	49
25–100	25	4

QM-HEIGHT: ABSOLUTE 1D HEIGHT GAUGE

- > Easy to use 1D height measuring instrument with ABSOLUTE scale.
- > This height gauge features various data output functions such as DIGIMATIC, USB or a wireless (via U-WAVE) connection.
- > You can easily implement frequently used measurements, such as inside/outside diameter and pitch calculations, by icons-based commands that also support easy one-key operations.

No. 518-234

List price: € 3.849

€ 2.990



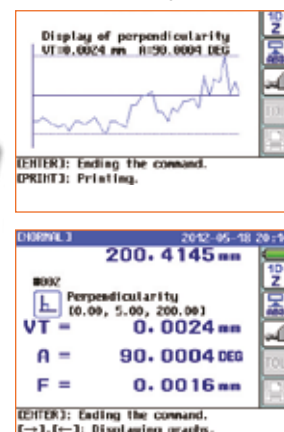
518-236



518-351D-21

518-352D-21

Different measuring scenarios



No.	Range [mm]	Design	Digital Step [mm]	Accuracy [μm]	Air floating	List price €	Promotion price €
518-230	0-350	QM-Height 1D Height Gauge	0,001	± (2,4 + 2,1/600)		3.485	2.730
518-232	0-600	QM-Height 1D Height Gauge	0,001	± (2,4 + 2,1/600)		4.276	3.350
518-234	0-350	QM-Height 1D Height Gauge	0,001	± (2,4 + 2,1/600)	■	3.849	2.990
518-236	0-600	QM-Height 1D Height Gauge	0,001	± (2,4 + 2,1/600)	■	4.640	3.590
518-351D-21	0-600	Linear Height LH-600 E 2D Height Gauge	0,0001	± (1,1 + 0,6/600)	■	5.920	4.640
518-352D-21*	0-600	Linear Height 2D LH-600 EG 2D Height Gauge	0,0001	± (1,1 + 0,6/600)	■	6.232	4.840

* With "Power Grip" for movement

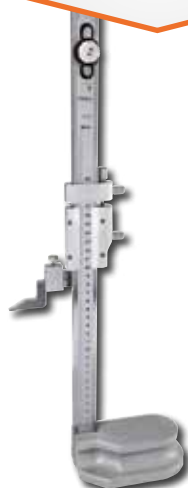
Optional accessories

No.	Designation	Remarks	List price €	Promotion price €
936937	DIGIMATIC Cable (1m)	For QM-Height	46	-
965014	DIGIMATIC Cable (2m)	For QM-Height	60	-
06AFM380D	USB Input Tool Direct Cable (2m)	For QM-Height	104	-
02AZD790D	U-WAVE Data cable with data switch	For QM-Height	87	44
02AZE990	U-WAVE T installation kit	For QM-Height	34	-
06AEG180D	AC-Adapter 6V DC, 2A	For QM-Height	69	-
K650986	Stylus Kit	For Linear Height	394	330
63AAA043	DMX-0-1 USB	For Linear Height: HID (Human Interface Device) keyboard format Interface to send measuring data directly e.g. to MS Excel	243	199
12AAA807D	RS232-C cable	For Linear Height: Connection Cable from Linear Height to HID Interface 63AAA043	58	-
901-117	Granite Plate	1200 x 800 x 160 mm; DIN 876 Grade 1	1.876	1.490
901-935	Stand	Stand for Granite Plate for 901-117	437	410

No. 514-102

List price: ~~€ 413~~

€ 312



514-102



192-130



192-663-10



192-664-10



192-665-10

No.	Range [mm]	Design	Graduation [mm]	Accuracy [μm]	List price €	Promotion price €
514-102	0–300	Vernier height gauge with scribe	0,01	± 40	413	312
514-106	0–600	Vernier height gauge with scribe	0,01	± 50	1.099	869
192-130	0–300	Dial height gauge with scribe	0,01	± 30	606	475
192-132	0–600	Dial height gauge with scribe	0,01	± 50	1.051	830
192-663-10	0–300	Digital height gauge with scribe	0,005/0,01	± 20*	1.157	885
192-664-10	0–600	Digital height gauge with scribe	0,005/0,01	± 40*	1.478	1.130
192-665-10	0–1000	Digital height gauge with scribe	0,005/0,01	± 60*	2.561	1.965

* Excluding quantising error



192-007: Touch-trigger probe (optional)

Optional accessories

No.	Designation	List price €	Promotion price €
192-007	Touch-trigger probe	504	—
905338	DIGIMATIC cable (1 m)	30	—
905409	DIGIMATIC cable (2 m)	36	—
06AFM380F	USB Input Tool Direct cable (2 m)	104	—
02AZD790F	Connecting cable U-WAVE	87	44





No.	Range [mm]	Accuracy* [mm]	Data output	Depth bar	Remarks	Certificate of inspection	List price €	Promotion price €
500-184-30	0-150	± 0,02		Round		■	110	83
500-181-30	0-150	± 0,02		Flat		■	110	83
500-182-30	0-200	± 0,02		Flat		■	173	135
500-161-30	0-150	± 0,02	■	Flat		■	136	110
500-162-30	0-200	± 0,02	■	Flat		■	194	158
500-500-10	0-450	± 0,05	■	No			820	645
500-501-10	0-600	± 0,05	■	No			889	689
500-502-10	0-1000	± 0,07	■	No			1.545	1.205
500-706-20	0-150	± 0,02		Flat	IP67 Coolant Proof	■	163	125
500-707-20	0-200	± 0,02		Flat	IP67 Coolant Proof	■	230	180
500-708-11	0-300	± 0,03		Flat	IP67 Coolant Proof	■	309	240
500-716-20	0-150	± 0,02	■	Flat	IP67 Coolant Proof	■	209	158
500-717-20	0-200	± 0,02	■	Flat	IP67 Coolant Proof	■	265	198
500-718-11	0-300	± 0,03	■	Flat	IP67 Coolant Proof	■	349	269
500-727-20	0-150	± 0,02	■	Flat	IP67 with carbide tipped jaws inside and outside	■	413	320
500-728-20	0-200	± 0,02	■	Flat	IP67 with carbide tipped jaws inside and outside	■	471	369

* Excluding quantising error

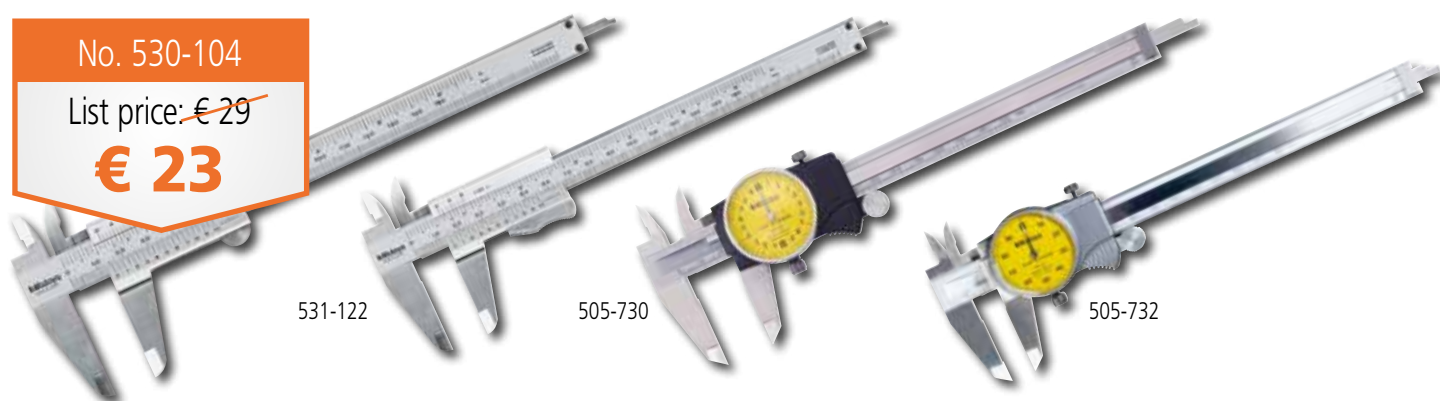
Optional accessories

No.	Designation	Remarks	List price €	Promotion price €
959149	DIGIMATIC cable with data switch (1m)		40	-
959150	DIGIMATIC cable with data switch (2m)		46	-
06AFM380C	USB Input Tool Direct Cable with data switch (2m)		104	-
02AZD790C	U-WAVE data cable with data switch		92	46
05CZA624	DIGIMATIC cable with data switch (1m)	For IP67 type	73	-
05CZA625	DIGIMATIC cable with data switch (2m)	For IP67 type	84	-
06AFM380A	USB Input Tool Direct cable with data switch (2m)	For IP67 type	119	-
02AZD790A	U-WAVE data cable with data switch	For IP67 type	97	49

No. 530-104

List price: ~~€ 29~~

€ 23



531-122

505-730

505-732

No.	Range [mm/inch]	Graduation [mm]	Accuracy [mm/inch]	List price €	Promotion price €
530-101	0-150	± 0,05	0,05	29	23
530-104	0-150/0-6"	± 0,05	0,05/ ¹ / ₁₂₈ "	29	23
530-108	0-200	± 0,05	0,05	75	58
530-109	0-300	± 0,08	0,05	182	142
530-122	0-150	± 0,03	0,02	35	25
530-123	0-200	± 0,03	0,02	58	42
530-124	0-300	± 0,04	0,02	182	132
531-122*	0-150/0-6"	± 0,05	0,05/ ¹ / ₁₂₈ "	36	28
505-730	0-150	± 0,03	0,02	97	77
505-732	0-150	± 0,02	0,01	112	89

* With thumb clamp

No. 527-201

List price: ~~€ 112~~

€ 88



571-201-30

571-302-20

571-252-20

No.	Range [mm]	Graduation [mm]	Accuracy [mm]	Remarks	List price €	Promotion price €
527-121	0-150	0,02	± 0,03	Vernier type	117	91
527-201	0-150	0,05	± 0,05	Vernier type	112	88
571-201-30	0-150	0,01	± 0,02*	Standard digital type	330	259
571-202-30	0-200	0,01	± 0,02 *	Standard digital type	394	310
571-301-20	0-150	0,01	± 0,03 *	IP67 Coolant Proof digital type with pin	418	325
571-302-20	0-200	0,01	± 0,03 *	IP67 Coolant Proof digital type with pin	476	375
571-251-20	0-150	0,01	± 0,02 *	IP67 Coolant Proof digital type	377	298
571-252-20	0-200	0,01	± 0,02 *	IP67 Coolant Proof digital type	438	340

* Excluding quantising error

Optional accessories: See Page 10 (Digital Caliper)



No.	Range [mm]	Accuracy* [μm]	Data output	Digital Step [mm]	Remarks	List price €	Promotion price €
293-100-10	0-25	± 0,5	■	0,0001	High accuracy micrometer	1.457	1.198
293-821-30	0-25	± 2		0,001	Economy type	148	119
293-240-30	0-25	± 1		0,001	IP65, standard type	194	148
293-241-30	25-50	± 1		0,001	IP65, standard type	272	198
293-244-30	0-25	± 1		0,001	IP65, ratchet thimble type	207	159
293-245-30	25-50	± 1		0,001	IP65, ratchet thimble type	283	220
293-230-30	0-25	± 1	■	0,001	IP65, standard type	251	199
293-231-30	25-50	± 1	■	0,001	IP65, standard type	295	235
293-145-30	0-25	± 1		0,001	QuantuMike IP65, with 2 mm spindle pitch	213	169
293-140-30	0-25	± 1	■	0,001	QuantuMike IP65, with 2 mm spindle pitch	302	219
293-141-30	25-50	± 1	■	0,001	QuantuMike IP65, with 2 mm spindle pitch	372	270
293-142-30	50-75	± 1	■	0,001	QuantuMike IP65, with 2 mm spindle pitch	451	355
293-143-30	75-100	± 2	■	0,001	QuantuMike IP65, with 2 mm spindle pitch	510	398
293-661-10	0-30	± 2		0,001	QuickMike, 10 mm feed per revolution	357	275
293-963-30	0-100	-	■	0,001	Set with 4 micrometer IP65 standard type, 3 setting standards	1.446	1.120

* Excluding quantising error

Optional accessories

No.	Designation	Remarks	List price €	Promotion price €
05CZA662	DIGIMATIC cable with data switch (1 m)		77	-
05CZA663	DIGIMATIC cable with data switch (2 m)		87	-
06AFM380B	USB Input Tool Direct cable with data switch (2 m)		119	-
02AZD790B	U-WAVE data cable with data switch		97	49
937387	DIGIMATIC cable (1 m)	For Quick Micrometer 293-661-10	49	-
965013	DIGIMATIC cable (2 m)	For Quick Micrometer 293-661-10	60	-
06AFM380E	USB Input Tool Direct cable (2 m)	For Quick Micrometer 293-661-10	104	-
02AZD790E	U-WAVE data cable with data switch	For Quick Micrometer 293-661-10	87	44
156-101-10	Micrometer stand	Adjustable angle type up to 100 mm range	56	43



No.	Range [mm]	Accuracy [μ m]	Remarks	List price €	Promotion price €
103-137	0-25	± 2		45	35
103-138	25-50	± 2		65	53
103-139-10	50-75	± 2		86	68
103-140-10	75-100	± 2		93	73
102-701	0-25	± 2	Ratchet thimble type	56	42
102-702	25-50	± 2	Ratchet thimble type	84	65
103-913-50	0-150	-	Set standard type, 6 micrometer, 5 setting standards	476	369
102-911-40	0-100	-	Set heat insulated frame type, 4 micrometer, 3 setting standards	326	259

USB-INPUT TOOL

These devices allow direct connections of DIGIMATIC measuring instruments to a USB interface without the need for additional software.

- > Measurement data is converted into keyboard codes, enabling interaction with any program using keyboard entries (HID).
- > You can also connect the USB-INPUT TOOL to a PC USB port with fixed COM assignment in Microsoft® Windows® as a channel identification (VCP). The software USB-ITPAK contains the driver for the virtual COM-Port (VCP).



USB-INPUT TOOL

Box type equipped with a built-in data switch and an add-on foot switch terminal

USB-INPUT TOOL
with optional accessories



No. 264-016-10

List price: ~~€ 213~~

€ 167



**06AFM386:
USB-ITPAK AND USB DONGLE**

USB-ITPAK V 2.1 creates a procedure to capture data from gauges equipped with DIGIMATIC output to Excel® sheets via

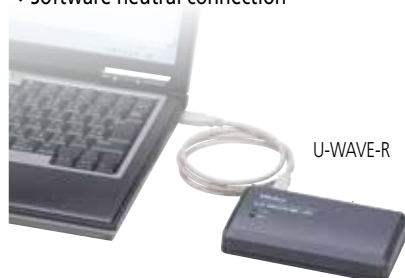
- A part manager automatically opening an Excel® sheet
- Entering sequence specified
- Input range specified per DIGIMATIC gauge, reducing improper input
- This software is compatible with:
 - USB-INPUT TOOL DIRECT
 - USB-INPUT TOOL
 - U-WAVE

Scan QR Code with
your mobile device
and watch our
product videos on
YouTube

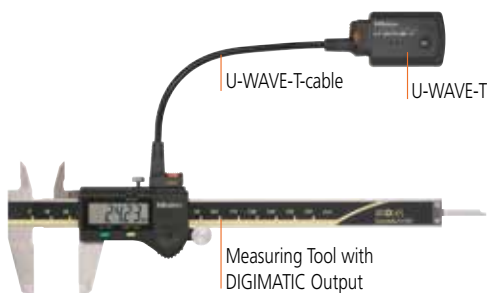


U-WAVE – MEASUREMENT DATA WIRELESS COMMUNICATION SYSTEM

- > Communication distance approx. 20 m
- > Software neutral connection



U-WAVE-R



U-WAVE-T-cable

U-WAVE-T

Measuring Tool with
DIGIMATIC Output



No.	Remarks	List price €	Promotion price €
02AZD730G	U-WAVE-T (IP67 model)	163	82
02AZD880G	U-WAVE-T (buzzer model)	163	82
02AZD810D	U-WAVE-R receiver	324	162

Cable Types

02AZD790A	High-grade IP protected model with data key (e.g. IP67 caliper)	97	49
02AZD790B	High-grade IP protected model with data key (e.g. IP65 micrometer)	97	49
02AZD790C	With data key (e.g. ABSOLUTE DIGIMATIC caliper)	92	46
02AZD790D	10 pin, simple model (e. g. ID-F indicator)	87	44
02AZD790E	6 pin, round model (e. g. quick micrometer)	87	44
02AZD790F	Simple, straight model (e. g. ID-C indicator)	87	44
02AZD790G	High-grade IP protected digital indicator (e. g. ID-N indicator)	92	46



Optional accessories for USB-Input Tool and U-WAVE

No.	Designation	List price €	Promotion price €
06AFM386	USB-ITPAK V 2.1 software for using Excel® for data collection	253	199
937179T	Footswitch	44	—

GAUGE STAND

No. 7002-10

 List price: ~~€ 407~~
€ 320


No.	Effective table dimensions [mm]	Max. measurement height [mm]	List price €	Promotion price €
7002-10	ø 58	95	407	320

MICROMETER STAND

No. 156-101-10

 List price: ~~€ 56~~
€ 43

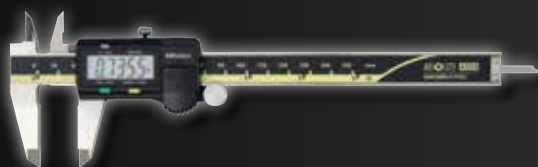

156-105-10



No.	Micrometer range [mm]	List price €	Promotion price €
156-105-10	0-50	45	35
156-101-10	0-100	56	43

50TH ANNIVERSARY PROMOTION

FROM APRIL 1 THROUGH DECEMBER 31, 2018


 For more information: <http://mitutoyo.eu/50-years-anniversary>
MAGNETIC STANDS

No. 7011SN

 List price: ~~€ 94~~
€ 68


7033B

No.	Working radius [mm]	Magnetic force N	List price €	Promotion price €
7031B	159	300	183	119
7033B	352	600	197	129
7011SN	160	600	94	68
7010SN*	150	600	86	59

* Without fine adjustment

KA-200 COUNTER

- > Easy to operate and multifunctional display unit for Linear Scales connection.
- > High performance-to-cost ratio 2/3-axis counter
- > Can be used as a milling counter or a lathe counter after entering modified parameters
- > Tool specification, addition of two axes, diameter display, preset value etc.

No.	Axes	List price €	Promotion price €
174-183D	2	552	395
174-185D	3	665	495

No. 174-183D

List price: € 552

€ 395

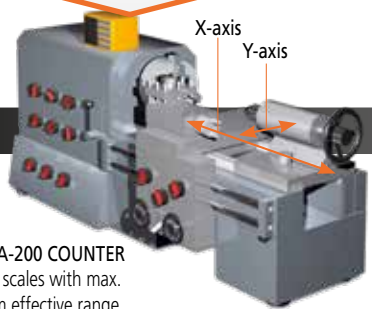


KIT FOR NEW AND USED MANUAL MACHINE TOOLS

- > Linear Scale AT-715 and KA-200 COUNTER. This offer consists of 2 or 3 Linear Scales with an effective range of max. 1800 mm per scale.
- > ABSOLUTE technology – no reference point setup needed at power-on
- > IP67 protection – thanks to electromagnetic induction scanning principle (high resistance to dust, water and oil). High durability
- > High accuracy (from $\pm 5 \mu\text{m}$ up to $10 \mu\text{m}$), depending upon effective range
- > Easy application in several types of manual machine tools, especially lathes

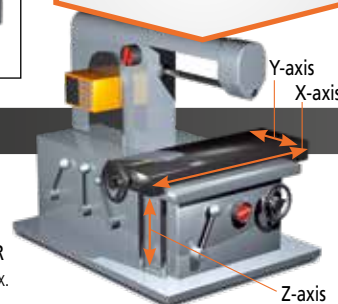
No. 539-8XX-2

€ 990



No. 539-8XX-3

€ 1.290



2-axis KA-200 COUNTER + two scales, max. effective range 2000 mm



2-axis KA-200 COUNTER
plus two scales with max.
2000 mm effective range

3-axis KA-200 COUNTER + three scales, max. effective range 3000 mm



3-axis KA-200 COUNTER
plus three scales with max.
3000 mm effective range



The offered set (above) contains Linear Scales with a range of up to 1800 mm

No.	Effective range mm	No.	Effective range mm
539-801	100	539-815	800
539-802	150	539-816	900
539-803	200	539-817	1000
539-804	250	539-818	1100
539-805	300	539-819	1200
539-806	350	539-820	1300
539-807	400	539-821	1400
539-808	450	539-822	1500
539-809	500	539-823	1600
539-811	600	539-824	1700
539-813	700	539-825	1800
539-814	750		

Additional measuring ranges are available (not included in basic set 1 and 2)

No.	Effective range mm	List price €
539-860	2000	993
539-861	2200	1.104
539-862	2400	1.214
539-863	2500	1.270
539-864	2600	1.324
539-865	2800	1.435
539-866	3000	1.545

Max. travelling speed	Effective range	Accuracy
50m/min	100–500 mm	$\pm 5 \mu\text{m}$
	600–1800 mm	$\pm 7 \mu\text{m}$
	2000–3000 mm	$\pm 10 \mu\text{m}$

When ordering, please specify the individual moving distances for each axis from the available lengths, together with the respective article numbers!

LATEST GENERATION ABSOLUTE SYSTEM ASSEMBLY TYPE LINEAR SCALE ABS AT1100

Mitutoyo



Reliably Resistant to Environmental Contaminants

This scale unit features Mitutoyo's unique electromagnetic induction technology to provide an oil and water resistant design that incorporates the sturdy optical linear encoder. This makes the ABS AT1100 the right choice for a reliable NC machine tool – suitable for rough shop conditions.

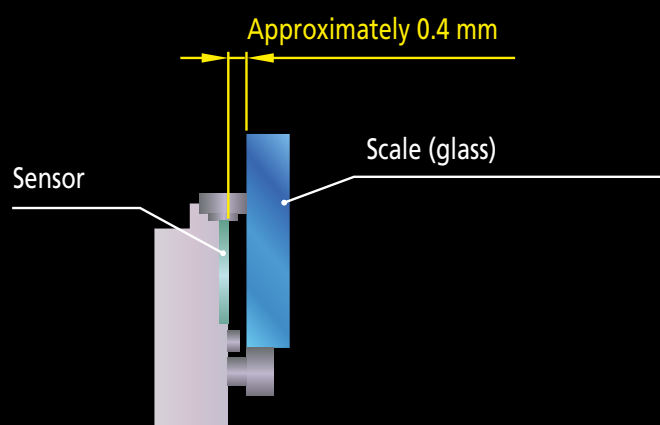
Robust Dustproof and Waterproof Design

The high performance ABS AT1100 features an innovative design and positioning of the detector track with the aluminium frame merged together with a coolant resistant rubber seal.



World's Largest Air Gap

The sensor-to-scale air gap is approximately 0.4mm, around 4 times as wide as that of the conventional optical or electromagnetic induction design. This reliably prevents issues caused by dust and oil contamination. This air gap is actually the largest in the world for a machine tool scale.



Compatible interfaces *	FANUC Corporation's Serial α / α i Interface
	Mitsubishi Electric Corporation's High-speed Serial Interface
	Siemens AG, DRIVE CLiQ Interface

* Please contact the manufacturer for details pertaining to connecting the applicable system

For more information: nc-scales@mitutoyo.eu



No. 542-156

List price: ~~€ 665~~

€ 529

SLIM HEAD LINEAR GAUGE LGK SERIES

- > Differential square-wave signal output enables to use it for a wide range of applications.
- > Due to its small size it can be installed even in restricted space.
- > Its photoelectric scale ensures high precision over the entire measuring range.
- > Long product life due to linear ball bearings in the spindle unit.

No.	Range [mm]	Measuring force * [N]	Resolution [mm]	Accuracy	Signal pitch [μm]	Max. response speed	Mass [g]	List price €	Promotion price €
542-156	0-10	0,8/0,75/0,7	0,001	(1,5 + L/50) μm	4	1500 mm/s	175	665	529
542-157	0-10	0,8/0,75/0,7	0,0005	(1,5 + L/50) μm	2	1500 mm/s	175	675	535

* Spindle DOWN/Horizontal/UP

STANDARD LINEAR GAUGE LGF SERIES

- > The advanced construction of the plunger guidance assembly ensures high resistance to external shocks and vibration.
- > Its differential square-wave signal output allows a wide range of applications.
- > Very long lasting due to linear ball bearings in the spindle unit.



No. 542-161

List price: ~~€ 552~~

€ 435

No.	Range [mm]	Measuring force * [N]	Resolution [mm]	Stem ø	Accuracy	Signal pitch [μm]	Max. response speed	Mass [g]	List price €	Promotion price €
542-161	0-10	1,2/1,1/1	0,001	ø 8 mm	(1,5 + L/50) μm	4	1500 mm/s	260	552	435
542-162	0-25	4,6/4,3/3/4	0,001	ø 15 mm	(1,5 + L/50) μm	4	1500 mm/s	300	782	620
542-163	0-50	5,7/5,3/4,9	0,001	ø 15 mm	(1,5 + L/50) μm	4	1500 mm/s	400	793	625

* Spindle DOWN/Horizontal/UP

HIGH RESOLUTION LINEAR GAUGE LGB SERIES

- > Designed extra compact the small photoelectric scale ensures high precision across the entire range.
- > Differential square-wave signal output allows a wide range of applications.



No. 542-246

List price: ~~€ 2.186~~

€ 1.730

No.	Range [mm]	Measuring force * [N]	Resolution [μm]	Stem ø [mm]	Accuracy	List price €	Promotion price €
542-246	0-5	0,65/0,6/0,55	0,1	8	(1,5 + L/50) μm	2.186	1.730

* Spindle DOWN/Horizontal/UP

ABSOLUTE DIGIMATIC LINEAR GAUGE LGS SERIES

- > Latest technology with ABSOLUTE DIGIMATIC data output and IP-66 protection



No. 575-303

List price: ~~€ 190~~

€ 145

No.	Range [mm]	Measuring force [N] *	Stem ø [mm]	Accuracy [μm]	List price €	Promotion price €
575-303	0-12,7	2/1,8/1,6	8	15	190	145

* Spindle DOWN/Horizontal/UP

EH COUNTER FOR LINEAR GAUGES

- > Multi-functional counter
- > The standard RS-232C and USB interfaces allow easy communication with an external PC (the USB requires SENSORPAK).
- > The built-in networking function allows you to easily create a multi-point measuring system (RS link, max. 10 counters).
- > The 2-gauge input type can calculate additions and subtractions between two gauges.

No. 542-075D

List price: ~~€ 855~~

€ 679



No.	Resolution [mm]	Max. input frequency	Input signal type	Applicable gauge	Gauge inputs	Mass [g]	List price €	Promotion price €
542-075D	0,0001/0,001/0,01	2,5 MHz (2-phase square wave), response speed depends on gauge specification	Differential square-wave	LGF, LGK, LGB, LG, LGM, LGH (excluding LGF-Z with reference point, LGH with 0,01 µm resolution)	1	760	855	679
542-071D	0,0001/0,001/0,01				2	800	1.039	829

SENSORPAK

- > Displays measurement values from up to 60 sensors simultaneously and in real time.
- > Calculations using measurement values from up to 30 sensors in real time.
- > Enables a huge range of different graphical presentations such as number representation, pointer representation, scale representation.



No. 02NGB072

List price: ~~€ 758~~

€ 610

Model	Sensorpak
No.	02NGB072
Output function	Direct output to Microsoft® Excel® spreadsheet, CSV file output (compatible with MeasurLink)
Total tolerance judgement	GO/NG judgement (by specifying gauges to be used for total tolerance judgement) GO/NG signal output with optional I/O cable
Input function	Trigger function: by means of keys, timer or external TRG (with optional I/O cable) Data input frequency: Max. 9999 times (with 60 gages connected) to 60000 times (with 6 gauges connected)
Application counter	Counters with RS-232C interface (EH and EV), with USB interface (EH)
Display	Display type : Counter, bar graph, meter, chart (capable of simultaneous display), tolerance judgement result: Color display (green/red) Connectable gauges : Max. 60 gages

LITEMATIC VL-50

- > Very low measuring force of 0,01 N (1 gf) and a resolution of 0,01 µm.
- > Its constant and low measuring force makes it especially suitable for measuring soft materials such as rubber, plastic, film thicknesses or sensitive form parts.
- > The motor driven plunger provides various approach and retraction speeds for safe and easy operation.

No.	Measuring force [N]	Accuracy [µm]	List price €	Promotion price €
318-221D	0,01	(0,5 + L/100)	6.591	5.100



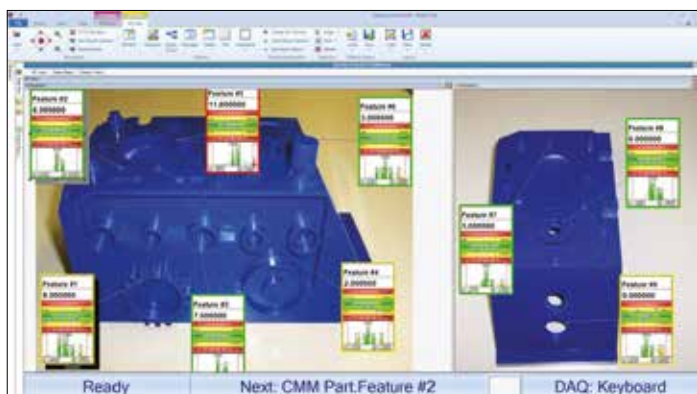
No. 318-221D

List price: ~~€ 6.591~~

€ 5.100

DATA COLLECTION AND REAL-TIME STATISTICAL PROCESS CONTROL

MeasurLink is designed to collect and unite all measurement data in one central data base. Measurement results acquired via CMMs are automatically transferred into a SQL database and available for monitoring, analysis or reporting in real-time.



MeasurLink Real-Time Professional Edition

MeasurLink Real-Time Professional Edition enables customers to connect and acquire data from Mitutoyo Coordinate Measuring Machines, Vision and Form Measuring Systems via native integration (DDE). ASCII and QMD (xml-based) file import are also supported.

MeasurLink Process Analyzer

Data Analysis Module Process Analyzer is an invaluable tool for your quality team. It gives you the flexibility to analyse your processes, identify problem areas and take corrective action to improve your product's quality. Inspection runs can be sorted by Inspection Station, Routine or Part, and are displayed with the look and feel of Windows Explorer. Inspection data can be merged, filtered, grouped, charted and printed as required.



No.	Designation	List price €	Promotion price €
64AAB471R	MEASURLINK, REAL-TIME PROFESSIONAL V8	1.831	1.465
64AAB472R	MEASURLINK, REAL-TIME PROFESSIONAL 3D V8	2.035	1.628
64AAB475R	MEASURLINK, PROCESS ANALYZER PROFESSIONAL V8	1.831	1.465
64AAB476R	MEASURLINK, PROCESS MANAGER V8	1.831	1.465
64AAB477R	MEASURLINK, GAGE R&R V8	1.015	812
64AAB478R	MEASURLINK, GAGE MANAGEMENT V8	1.831	1.465
64AAB479R	MEASURLINK, SITE LICENSE V8, 30 LICENSES	20.395	16.316
64AAB479FR	MEASURLINK, FLOATING LICENSE V8, 30 LICENSES	10.195	8.156
64AAB480R	MEASURLINK, WORKGROUP LICENSE V8, 15 LICENSES	11.215	8.972
64AAB480FR	MEASURLINK, FLOATING LICENSE V8, 15 LICENSES	5.605	4.484
64AAB482R	MEASURLINK, WORKGROUP LICENSE V8, 10 LICENSES	8.155	6.524
64AAB482FR	MEASURLINK, FLOATING LICENSE V8, 10 LICENSES	4.075	3.260
64AAB483R	MEASURLINK, WORKGROUP LICENSE V8, 5 LICENSES	5.095	4.076
64AAB483FR	MEASURLINK, FLOATING LICENSE V8, 5 LICENSES	2.545	2.036

All prices exclude training & installation.

DIGITAL AND ANALOGUE DUROMETERS HARDMATIC HH-300 SERIES 811

> These compact digital/dial durometers can test a range of different materials: natural rubber, neoprene, polyesters, PVC, leather, Thiokol, nitrile rubber, wax, vinyl, cellulose acetates, glass polystyrene, etc.

> Scales: Shore hardness "A" and "D"

No. 811-337-11

List price: ~~€ 470~~

€ 376



811-336-11



811-331-10



No. 811-332-10

List price: ~~€ 820~~

€ 656

Models with analogue/digital reading:

No.	Model	Scale	Dimensions (WxDxH) mm	Compact type	Long type	Digital	Analogue	List price €	Promotion price €
811-331-10	HH-331	Shore A	68 x 35 x 188		■		■	470	376
811-335-11	HH-335-01	Shore A	68 x 34 x 146	■			■	470	376
811-332-10	HH-332	Shore A	59 x 41 x 190		■	■		820	656
811-336-11	HH-336-01	Shore A	59 x 40 x 147	■		■		820	656
811-333-10	HH-333	Shore D	68 x 35 x 188		■		■	470	376
811-337-11	HH-337-01	Shore D	68 x 34 x 146	■			■	470	376
811-334-10	HH-334	Shore D	59 x 41 x 190		■	■		820	656
811-338-11	HH-338-01	Shore D	59 x 40 x 147	■		■		820	656



No. 811-013

List price: ~~€ 1.810~~

€ 1.600

HH-300 not included.

MEASURING STAND APPLICATIONS

> These stands are used to mount Durometers and allow constant-pressure hardness measurement by ensuring that the Durometer presses on the workpiece surface vertically at all times.

> Anyone can perform repeatable hardness measurement due to reduced chance of human error and measurement variations.

Optional accessories (recommended)

No.	Designation	List price €	Promotion price €
811-012	Measuring stand for HH-333/334/337-01/338-01	1.810	1.600
811-013	Measuring stand for HH-335-01/336-01	1.810	1.600
811-019	Measuring stand for HH-331/332	1.810	1.600

LEEB PORTABLE HARDNESS TESTING DEVICE HH-411

> This instrument is the hardness testing solution for big specimens

> Easy performance of test procedure

> Automatic recognition of impact direction

> Including HLD scale impact device

> Reference material block included in standard accessories.

Standard model with HLD impact device

No.	Designation	Impact device	List price €	Promotion price €
810-298-10	HH-411	HLD	2.710	2.250

No. 810-298-10

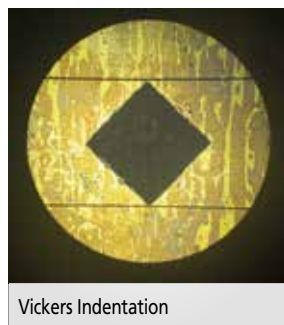
List price: ~~€ 2.710~~

€ 2.250



VICKERS HARDNESS TESTING MACHINE HV-110/120

- > 144 mm (5,7 inch) colour display (Type A) with excellent visibility, easy to operate user interface
- > High-quality objective lenses for best observation image
- > Electromagnetic test force control for all models
- > LED illumination extends the service life and offers a natural-colour observation image.
- > Supports Micro Brinell up to 62,5 kgf with optional test force weights, depending on model.
- > 10x objective lens included



Vickers Indentation

No.	Designation	Test forces kgf	List price €	Promotion price €
810-440D	HV-110 Type A	1-50	12.800	11.500
810-445D	HV-120 Type A	0,3-30	13.400	11.100
11AAC714	20 x Objective lens	–	730	–
11AAC715	50 x Objective lens	–	880	–

No. 810-440D

List price: € 12.800

€ 11.500



ROCKWELL HR-530

- > New and intuitive guided user interface
- > Multiple test force generation for Rockwell, Rockwell Superficial and Brinell hardness up to 187,5 kgf
- > Supports Brinell depth measurement, ISO2039-2 Plastic test and Rockwell Alpha test.
- > HR-530 can perform 47 different hardness testing scales.
- > Workroom height 250mm or 395mm.
- > A lever indenter arm makes for easy reach of interior surfaces (min. Ø 40 mm / Ø 22 mm, when using an optional diamond indenter) and exterior surfaces and best overview over the specimen.
- > Real-time electronic test force control provides accurate loading, and perfectly eliminates overshooting of test force. It also enables a precisely executed test time cycle. Excellent repeatability is achieved.
- > Time-saving serial test mode, which allows serial testing without changing spindle position. Serial test can be operated by foot switch.
- > Auto-stop table elevation and automatic preloading provide stable test force generation.



Inside testing option

No. 810-336

List price: € 14.000

€ 11.800

Rockwell scales	Rockwell Superficial scales	Indenter
HRA, HRC, HRD	HR15N, HR30N, HR45N	Diamond
HRB, HRF, HRG	HR15T, HR30T, HR45T	Ball 1,5875 mm
HRE, HRH, HRK	HR15W, HR30W, HR45W	Ball 3,175 mm
HRL, HRM, HRP	HR15X, HR30X, HR45X	Ball 6,35 mm
HRR HRS, HRV	HR15Y, HR30Y, HR45Y	Ball 12,7 mm

No. 810-236

List price: € 12.000

€ 9.700



No.	Designation	Test forces kgf	Max. workpiece height mm	Rockwell scales	Brinell Scales	Brinell depth measurement scales	Plastic test scales	List price €	Promotion price €
810-236	HR-530	3-187,5	250	30	11	2	5	12.000	9.700
810-336	HR-530L	3-187,5	395	30	11	2	5	14.000	11.800

ECONOMIC ROCKWELL HARDNESS TESTING MACHINES SERIES ROCKWELL HR-110MR / -210MR / -320MS / -430MR

- > The frame design provides maximum clearance for positioning the work piece, the only requirement is a flat table for mounting the testers.
- > Supports Brinell up to 187,5 kgf with an optional test force weight
- > 5 different models from manual analogue to semi automatic digital type:
 - > Manual weight change for HR-100-200-300
 - > Weight change by rotary knob for HR-400
 - > Manual test force application for HR-100
 - > Motorised test force application from HR-200
 - > Semi-automatic operation for HR-400

No.	Designation	Test forces kgf	List price €	Promotion price €
963-210-20	HR-110MR	60/100/150	3.780	3.040
963-220D	HR-210MR	60/100/150	4.550	3.640
963-231D	HR-320MS	15/30/45/60/100/150	6.510	5.240
963-240D	HR-430MR	60/100/150	7.350	5.880
963-241D	HR-430MS	15/30/45/60/100/150	8.660	6.940



No. 963-210-20

List price: ~~€ 3.780~~

€ 3.040



No. 963-241D

List price: ~~€ 8.660~~

€ 6.940

WORKPIECE CLAMPING DEVICE

- > Avoids movement of the specimen during the hardness test
- > Ideal for shaft specimen and sheet material cut outs
- > Inside $\varnothing$ clamp 18 mm
- > Use Mitutoyo indenter for best result
- > Applicable for HR-MR models only



Clamping device

No.	Designation	Application models	List price €	Promotion price €
K543817	Clamping device	HR-110MR, HR-210MR, HR-430MR	420	390

MICRO-VICKERS HARDNESS TESTING MACHINES HM-210A

- > High-performance hardness testing machine that uses advanced technology and is ideal for quality control
- > Touchscreen controlled
- > Electromagnetic force generation system
- > A high-performance optical system provides a high-quality image of the indentation.
- > 10x and 50x objective lenses included
- > 810-420 manual XY stage 25x25 mm included

Vise is an additional accessory.



No. 810-401D-ASET

List price: ~~€ 14.500~~

€ 12.200

No.	Designation	Test forces kgf	List price €	Promotion price €
810-401D-ASET	HM-210A	0,01-1	14.500	12.200
810-016	Standard vise 51 mm opening	-	790	-



TM-505B Set-Price

List price: € 6.347

€ 4.900

MANUAL MEASURING MICROSCOPE TM GENERATION B SERIES

- > Robust and compact measuring microscope suitable for shop floor use
- > XY stage with digital micrometer heads and eye piece protractor enable easy measurement of dimensions and angles.
- > LED contour, surface and optional ringlight illumination with adjustable light intensity
- > Comfortable 30X magnification with 2X lens and 15X eyepiece
- > Available in 2 table sizes

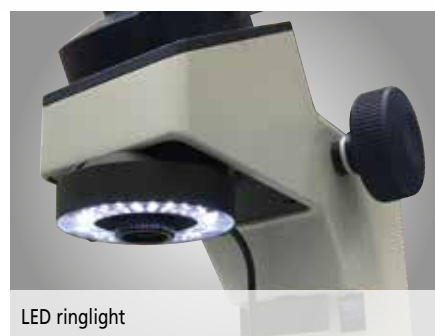
TM-505B Set

No.*	Designation	List price €	Promotion price €
176-818D	TM-505B microscope XY table 50 x 50 mm	4.403	3.310
164-163	2x digital micrometer head 0-50 mm	1.544	1.190
63AAA001	LED ringlight with adjustable light intensity	400	–
Set Price		6.347	4.900

TM-1005B Set

No.*	Designation	List price €	Promotion price €
176-819D	TM-1005B microscope XY table 100 x 50 mm	5.783	4.340
164-163	2x digital micrometer head 0-50 mm	1.544	1.190
611675-031	Gauge block 50 mm Grade 1	62	39
63AAA001	LED ringlight with adjustable light intensity	400	–
Set Price		7.789	5.969

* Order all code numbers separately



LED ringlight

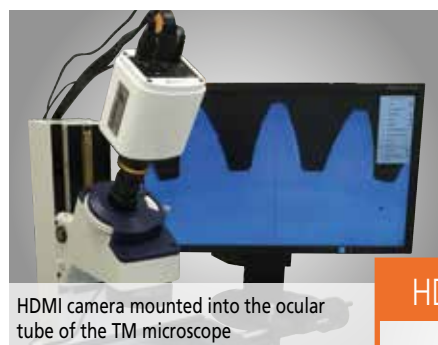
DIGITAL CAMERA ACTION FOR TM MICROSCOPES

Mounting the HDMI6MDPX digital camera into the ocular tube transforms the TM microscope into a digital microscope.

- > HDMI6MDPX, 6 megapixel colour camera with direct HDMI output to a monitor
- > Integrated SD card for saving images and pre-installed software for performing basic in-screen measurements
- > Intuitive operation of the software with standard USB mouse
- > No PC necessary

No.*	Designation	List price €
63AAA059	HDMI6MDPX camera	1.295
63AAA060	0.37x EYEP Adapter	67
63AAA155	Mechanical adapter	362

* Order all three parts for complete camera solution



HDMI camera mounted into the ocular tube of the TM microscope

HDMI6MDPX-Set

€ 1.724

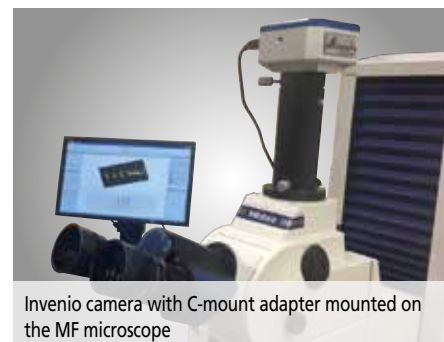


HDMI6MDPX camera

DIGITAL CAMERA ACTION FOR MEASURING MICROSCOPE MF GENERATION D

Mounting the Invenio 5SIII camera onto the camera adapter transforms the MF microscope into a powerful digital microscope.

- > MF series measuring microscopes offer outstanding optical quality with their ML series objective lenses with long working distance.
- > Measuring accuracy is one of the highest in their class.
- > Continuously adjustable LED contour and surface illumination ensure optimum lighting conditions.
- > A comfortable 30X-magnified erect image comes with the 10X binocular and 3X ML lens.
- > Invenio 5SIII, 5 megapixel colour camera with high speed USB3 communication
- > Ideal for documentation and analysis for a wide range of applications
- > Mitutoyo MF software package enhances the functionality of the microscope with:
 - > Reporting functionality of images and measurement results
 - > Images with extended depth of focus
 - > 3D topography observation by stacking images in Z-direction
 - > Counting of particles



Invenio camera with C-mount adapter mounted on the MF microscope



MF-B2010D-10-Set

List price: € 20.955

€ 16.790

MF-B2010D set with Invenio 5SIII camera

No.	Scope of delivery	List price €	Promotion price €
176-867-10-SET	MF-B2010D microscope XY table 200 x 100 mm; Binocular 10X magnification; LED surface and contour illumination; Invenio5SIII digital USB3 colour camera; Mitutoyo MF software package*; 0.5X magnification C-mount adapter for digital camera	20.955	16.790



3D topography



Particle counting

MF-B2017D set with Invenio 5SIII camera

No.	Scope of delivery	List price €	Promotion price €
176-868-10-SET	MF-B2017D microscope XY table 200 x 170 mm; Binocular 10X magnification; LED surface and contour illumination; Invenio5SIII digital USB3 colour camera; Mitutoyo MF software package*; 0.5X magnification C-mount adapter for digital camera	23.855	19.090

* Software training is not included

PROFILE PROJECTOR PH-A14

The heavy-duty PH-A14 profile projector with horizontal optical system and $\varnothing$ 356 mm projection screen is capable of measuring heavy workpieces of up to 45 kg.

- > Linear scales integrated in the XY table.
- > 10X objective lens included.
- > To suit customers' demands, the movement of the XY stage can either be displayed using the optional 2-axis KA Counter or the advanced QM-Data 200 data processor.

No.	Designation	List price €	Promotion price €
172-810-20D	PH-A14 XY stage: 203 x 102 mm	8.168	6.200



OPTOEYE 200



QM-Data 200



KA Counter



opti-fix Set: 12 Pieces

Optional accessories

No.	Designation	List price €	Promotion price €
264-156D	Data processing unit QM-Data 200 with mounting bracket. Can be used on all projector models in this promotion	3.049	1.840
12AAA807D**	Connection cable PJ-A3000 to QM-Data 200	58	—
332-151*	OPTOEYE 200 edge detection sensor	1.473	1.180
12AAE672	Mounting plate for OPTOEYE 200 for PV-5110	56	45
12AAE671	Mounting plate for OPTOEYE 200 for PJ-A3000 series and PH-A14 projector	40	32
937179T	Footswitch	44	—
174-183D	KA counter for PV-5110 and PH-A14	552	395
12AAF182	KA Counter Stand	91	73
K550892	opti-fix clamping system	498	399

*Only in combination with QM-Data 200 **Not for use with OPTOEYE 200

PROFILE PROJECTOR PJ-A3000 SERIES

The PJ-A3000 series profile projectors with vertical optical system provide excellent versatility and ease of use for measurement of medium-sized work pieces.

- > Linear scales integrated in the XY stage
- > Built-in rotary encoder in the $\varnothing$ 315 mm projection screen.
- > The XY stage equipped with a quick-release mechanism for fast table movements
- > 10X objective lens included

No.	Designation	List price €	Promotion price €
302-701-1D	PJ-A3010F-100 XY stage: 100 x 100 mm	12.875	9.700
302-702-1D	PJ-A3005F-150 XY stage: 150 x 50 mm	11.330	8.500
302-703-1D	PJ-A3010F-100 XY stage: 100 x 100 mm	10.887	7.950

No. 302-703-1D

List price: € ~~10.887~~

€ 7.950



No. 304-919D

List price: € ~~15.450~~

€ 11.600

KA Counter
is optional

PROFILE PROJECTOR PV-5110

The robust stand-alone PV-5110 profile projector with vertical optical system provides excellent observations with its big $\varnothing$ 508 mm projection screen.

- > Linear scales are integrated in the XY stage.
- > Built-in rotary encoder in the $\varnothing$ 508 mm projection screen
- > 10X objective lens is included
- > To suit customers' demands, the movement of the XY stage can either be displayed using the optional 2-axis KA Counter or the advanced QM-Data 200 data processor.

No.	Designation	List price €	Promotion price €
304-919D	PV-5110 XY stage: 200 x 100 mm	15.450	11.600

MOBILE ROUGHNESS MEASUREMENT – SURFTEST SJ-210 / SURFTEST SJ-310

- > The portable instruments allow easy and accurate measurement of surface roughness.
- > SJ-210 with sturdy design for industrial environment – perfectly made for one-site use!
- > EN ISO conform stylus radius of 2 μm , measuring force 0,75mN!
- > EN ISO conform skid radius of 40 mm – therefore convenient for surface roughness $\lambda_c = 0,8 \text{ mm}$!
- > Support of VDA standard and special parameters like Rz1max!
- > The colour LCD provides excellent readability and also includes a backlight for improved visibility in dark environments.
- > Our promise: “Easy and intuitive menu navigation.”
- > The SJ-310 series provides the LCD as touch screen for easy and uncomplicated use. With the built-in printer results, profiles, conditions and more can be printed automatically or on demand.
- > The SJ series performs roughness analyses according to various international standards (EN ISO, VDA, ANSI, JIS) and customised settings.
- > Both instruments give the user a quick analysis by coloured tolerance judgement.
- > Both units are available with standard detector as well as a retract (R-Type) system or for transverse measurement like crankshafts or deep grooves (S-Type).
- > SJ-210 available in two different language types – total support of 21 languages

Scan QR Code with
your mobile device
and watch our
product videos on
YouTube



No. 178-560-01D
No. 178-560-03D

List price: ~~€ 2.215~~

€ 1.880



No. 178-570-01D

List price: ~~€ 4.450~~

€ 3.580

No.	Designation	List price €	Promotion price €
178-560-01D	SJ-210 Surftest	2.215	1.880
178-560-03D	SJ-210 Surftest	2.215	1.880
178-562-01D	SJ-210 R Surftest	2.575	2.080
178-564-01D	SJ-210 S Surftest	4.080	3.180
178-570-01D	SJ-310 Surftest	4.450	3.580
178-574-01D	SJ-310 S Surftest	6.300	4.950
178-234-2*	Drive Unit Set-S	2.494	1.990
178-029**	Granite stand	738	590
12AAA221	Granite stand adapter	45	35

* 178-234-2 including S - detectors 2 and 5 μm , 0,75 and 4 mN

** 12AAA221 is needed for SJ-210 /SJ-310

Detector types SJ-210 and SJ-310



Standard



R-type



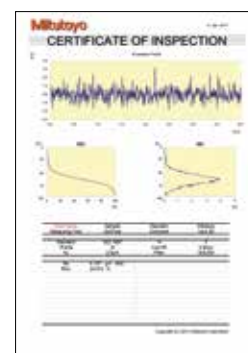
S-type



Granite stand 178-029 and adapter 12AAA221

MOBILE OR STATIONARY ROUGHNESS MEASUREMENT – SKIDLESS SURFTEST SJ-410 SERIES

- > Portable instrument that allows easy and accurate on-site measuring of surface roughness independently of external power sources.
- > The SJ-410 series' skidless design enables creation of primary profiles (P), roughness profiles (R), waviness profiles (W) and more. It offers surface compensation of curved, radial and tilted surfaces.
- > It boasts comfortable use due to an easy and intuitive menu navigation.
- > The instrument features the highest straightness drive unit with a traverse length of 25 mm and 50 mm. Customers can select a huge number of easy-to-replace styli.
- > The large 14,5 cm colour multilingual LCD touch screen facilitates easy readout and operation.
- > With the built-in printer results, profiles, conditions and more can be printed out automatically or on demand.
- > Brilliant optional accessories like Autoset unit, X-axis adjustment unit and digital leveling unit mounted at the granite stand – single or in combination



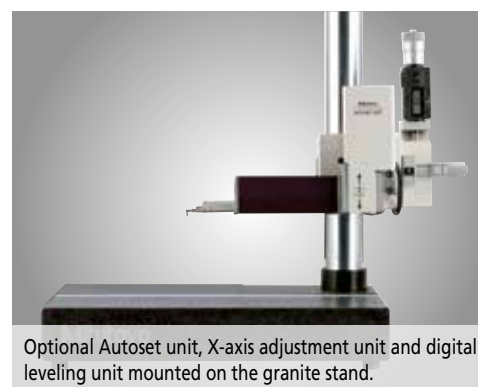
No. 178-580-01D

List price: ~~€ 8.430~~

€ 6.750



No.	Designation	List price €	Promotion price €
178-580-01D	SJ-411 Surftest	8.430	6.750
178-582-01D	SJ-412 Surftest	9.900	7.950
178-010	Autoset unit	2.370	1.890
178-020	X-axis adjustment unit	1.220	990
178-030	Digital leveling unit	1.800	1.450
178-039	Granite stand	732	590



CMM PALLET RECEIVER ECO-FIX KIT SERIES

The manual pallet receiver system for CMM enables the user to speed up and master repetitive measurements with ease. The base plate, equipped with handles and spheres on the bottom surface, can be repositioned quickly and precisely on the receiver pallet. The use of a second base plate with the same fixture, can speed up serial measurements significantly. While the measurement program is running an identical follow up workpiece can be mounted on the fixture, so the workpiece changeover time can be reduced accordingly.



No.	Designation	List price €	Promotion price €
K551218	eco-fix kit S w. loading receiver pallet Fixture kit for small and mid-size workpieces. Including: Base plate 250 mm x 250 mm 58 eco-fix clamping parts, e.g. brackets, location pins, spring clips, receiver pallet, handles and spere bolts	1.963	1.650



CMM FIXTURE KIT SERIES ECO-FIX

The Mitutoyo "eco-fix" fixture kit series is a very fast and affordable solution for clamping workpieces on the CMM. In just a few minutes your fixture is ready for measurement. Therefore, eco-fix is a very attractive alternative to customised jigs.

- > Fits all CMM brands
- > Build your individual fixture in only 20 minutes!
- > Flexible modular systems
- > Fast & affordable
- > Suitable for various different workpieces or other measuring equipment
- > Easy adaption to product changes
- > M6 thread pattern
- > Purchase one kit for each workpiece
- > Also ask for eco-fix extension kits!



No. K551048

List price: ~~€ 915~~

€ 780

No.	Designation	List price €	Promotion price €
K551048	eco-fix S Fixture kit for small and mid-size workpieces. Including: Base plate 250 mm x 250 mm 58 eco-fix clamping parts, e.g. brackets, location pins, spring clips	915	780
K551049	eco-fix L Fixture kit for mid- and large size workpieces. Including: Base plate 500 mm x 400 mm 97 eco-fix clamping parts, e.g. brackets, location pins, spring clips	1.710	1.450

CMM FIXTURE KIT QUICK-RAIL

quick-rail is the perfect choice for clamping a wide variety of work-piece sizes from large to small in a short time. It is made up of 3 rails which could be individually positioned for carrying workpieces. Brackets and pins from the eco-fix series are used to establish a three-point support of the workpiece. In addition, quick-rail can perfectly be combined with the eco-fix series to establish a reproducible position of the fixture.



No.	Designation	List price €	Promotion price €
K550914S	quick-rail Very flexible fixture kit containing: • 1 rail 800 mm • 2 rails 500 mm • 5 plates • 21 eco-fix clamping parts, e.g. brackets, location pins, spring clips	1.068	860

No. K550914S

List price: € ~~1.068~~

€ 860

CMM STYLI KITS

Mitutoyo styli are the perfect choice for tactile measurements. They guarantee reliable and highly reproducible results and can be used on CMMs of any brand. Mitutoyo offers starter kits containing styli suiting many measurement tasks. The manufacturer also carries a large variety of other styli like star styli or disc-shaped styli to meet your measurement requirements. Just ask for a detailed styli leaflet.

- > Fits all CMM brands
- > High-quality tactile measurements
- > For new machines and replacement of existing styli
- > Mitutoyo offers a wide range of styli for almost any application.

No. K651376

List price: € ~~140~~

€ 110



No.	Designation	List price €	Promotion price €
K651376	Styli Kit M2 Starter For TP20 or TP200 probe systems. Including: • 4 styli with tip diameters from ø 1 mm to ø 4 mm • 2 extension 10 mm and 20 mm • Establish stylus lengths up to 50 mm	140	110
K651380	Styli Kit M3 Starter For SP25M probe systems. Including: • 5 styli with tip diameters from ø 1 mm to ø 5 mm • 2 extension 20 mm and 35 mm • Establish stylus lengths up to 55 mm	201	160



ISO 9001

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Coordinate Measuring
Machines



Vision Measuring Systems



Form Measurement



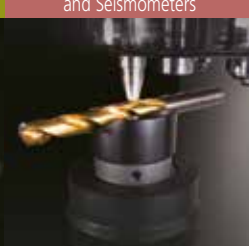
Optical Measuring



Sensor Systems



Test Equipment
and Seismometers



Digital Scale and DRO Systems



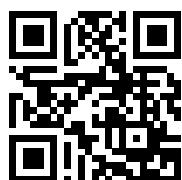
Small Tool Instruments
and Data Management



**Whatever your challenges are,
Mitutoyo supports you from start to finish.**

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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