Spring promotion PR1278

2025

from 1 April to 31 May 2025



Logos

	Short description	Description
U-W/VE	Wireless data transmission system	U-WAVE is Mitutoyo's proprietary wireless data transmission system, far superior to Bluetooth® in terms of reliability and range. It is based on IEEE 802.15.4 signals in the 2.4 GHz band.
***	Standard for wireless Data transfer	Bluetooth® is a wireless standard that allows data, music, videos or images to be transmitted over short distances of up to approximately 10 m.
U-WAV <i>E</i> ffit	Transmitter system for U- WAVE and Bluetooth®	U-WAVE fit transmitters are available in both U-WAVE and Bluetooth® versions .
DIGIMATIC	Mitutoyo data transmission standard	The DIGIMATIC interface is a Mitutoyo original and enables the fast and reliable transmission of measurement data to external systems such as PCs, printers and Mitutoyo displays.
DIGIMATIC 51	Bidirectional Communication system for handheld measuring instruments	The bidirectional serial communication system from Mitutoyo enables, for example, parameterization and reception of measurement data via a PC.
MeasurLink* An Integrated Solution for Quality Obta Management	SPC-Software	MeasurLink® is a database (SQL Server) based software for managing measurement data (SPC).
P 65	Protection class for harsh Environmental conditions	The IP65 protection class offers protection against water jets and the ingress of dust (dust-tight).
P 67	Protection class for harsh Environmental conditions	The IP67 protection rating provides complete dust and water resistance (30 minutes, 1 m depth).
ABS©LUTE™	ABSOLUTE-Linearencoder	The electronic scale allows for a direct display of the absolute linear position. This eliminates the need to adjust the reference point after each power-on.
COOLANT PROOF ™	General term for DIGIMATIC-Handmessmittel von Mitutoyo	The so-called hand-held measuring instruments are not only resistant to the ingress of dust and water (protection class IP65 or higher), but also to material wear caused by contact with cooling lubricants during normal use. Note: Some cooling lubricants are aggressive and can degrade the sealing material over time.

The new QuantuMike

4x faster measurements*:

Efficiency on the rise thanks to an accelerated spindle feed of 2 mm per revolution *compared to a conventional micrometer

Intuitive and smart:

Optimization of processes through large display, warning function for approach speed and possibility of PC connection

Robust reliability:

IP65 protection class for resistance to water, oil and dust

Advanced precision: industry-leading accuracy



Digitale Bügelmessschraube QuantuMike (IP65)

- Faster measurements: 2 mm spindle feed per drum revolution, 4x faster than a conventional micrometer
- Possibility of PC connection: adjustment of parameters via bidirectional communication (DIGIMATIC S1)
- Effortless operation: compact design and ratchet drum for easy one-handed or stand operation
- Calibration plan warning function: adhere to the schedule thanks to integrated reminder functions
- Tolerance checks: GO/±NG assessment by setting the upper and lower tolerances
- Excessive speed warnings: Approach speed warning function
- Long battery life: 2 years or 4,000 hours
- Excellent accuracy: JMPE of ±1 µm according to DIN EN ISO 3611 (model 0-25, 25-50 mm)
- Robust design: IP65 protection class for resistance to water and dust in machining situations
- Key lock (display): Function settings can be locked to prevent accidental changes
- Easy reading: enlarged display for easier reading of the values

Order no.	Baradada a	Measuring range Numerical step value Special feature			Diva type	Wireless c		
Order no.	Description	ivieasu ning rang	e Numerical step value c	pecial lea ture	Plug type	Sender	Connection unit	List price €
293-140-40	Digital micrometer QuantuMike IP65	0–25 mm	0,001 mm	2 mm/U	SF	264-622	02AZF960	380,00 €
293-141-40	Digital micrometer QuantuMike IP65 Digital	25–50 mm	0,001 mm	2 mm/U	SF	264-622	02AZF960	468,00 €
293-142-40	micrometer QuantuMike IP65 Digital micrometer	50–75 mm	0,001 mm	2 mm/U	SF	264-622	02AZF960	556,00 €
293-143-40	QuantuMike IP65	75–100 mm	0,001 mm	2 mm/U	SF	264-622	02AZF960	628,00 €

^{*}Transmitter and connection unit are not included and must be purchased separately. For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12-15).









COOLANT PROOF

Absolute digital micrometer QuickMike

- Fast and efficient: 10 mm spindle feed per revolution for 20 times faster movement compared to conventional micrometers
- with non-rotating spindle
- Durability: IP65 protection rating for resistance to water and dust
- extended measuring range: 30 mm measuring capacity

DIGIMATIC











Order no.	Description	Measuring rang	e digit step value	Special feature	Plug type	Wireless connection* Transmitter connection unit	List price €	Promotional price €
293-666-20	Absolute digital QuickMike outside micrometer	0–30 mm	0,001 mm	10 mm/rev, non- rotating spindle	В	02AZD730G 02AZD790B	587,00 €	469,00 €

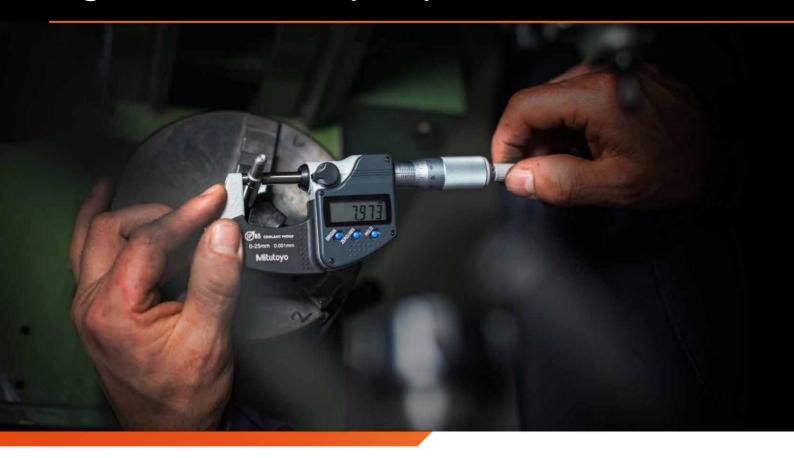
^{*}Transmitter and connection unit are not included and must be purchased separately

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).





Digital micrometer (IP65)



Digital ABS depth caliper



- AOS encoder: advanced induction encoder for coolant-tight calipers
- ABS scale: no setting of the reference point or speed limits
- Durability: hardened, lapped surfaces Easy readability: large digits

Order no		Measuring range digit step value			Wireless connection*			
Order no.	Description			Plug type	Sender	Connection unit	List price €	Promotional price €
571-203-30	Digital ABS depth caliper	0–300 mm	0,01 mm	С	264-621	02AZF300	500,00 €	399,00 €

^{*}Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).



- Durable construction: oil-resistant plastic parts, ideal for contact with cooling lubricants during machining
- Long battery life: up to 2.4 years IP65 protection class: waterproof and dustproof











Order no.		Measuring range Numerical step value Spe		Special feature Plug type		Wireless o	onnection*		Promotional price €
Order no.	Description					Sender	Connection unit	List price €	
293-230-30 Digita	al outside micrometer (IP65) 0-25 mm		0,001 mm	0,5 mm/U	В	264-622	02AZF310	315,00 €	249,00 €
293-231-30 Digita	al outside micrometer (IP65) 25–50 mm		0,001 mm	0,5 mm/U	В	264-622	02AZF310	373,00 €	299,00 €

*Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).

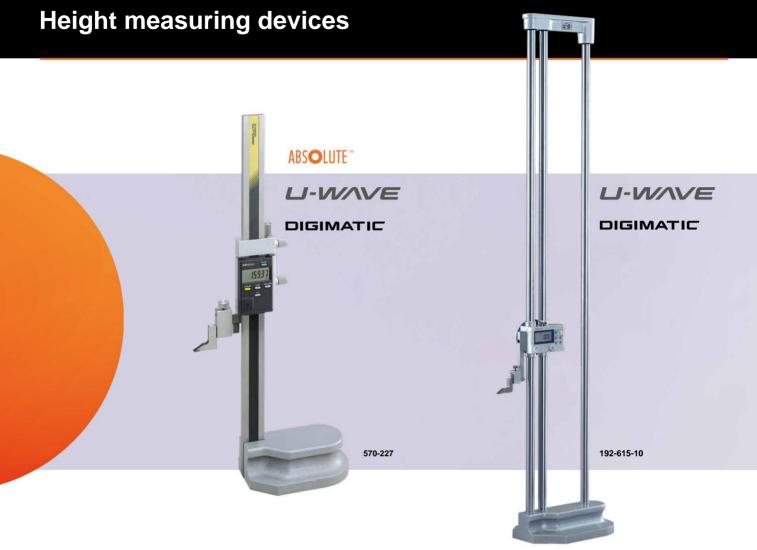
Digital ABS caliper, beak/ Standard measuring surfaces



Orderne					Wireless co	nnection*	Liet price 6	Promotional price 6
Order no.	Description	Measuring rang	e Numerical step value	Plug type	Sender	Connection unit	List price €	Promotional price €
551-204-10	Digital ABS caliper, beak/ Standard measuring surfaces	0–500 mm	0,01 mm	С	02AZD880G	02AZD790C	960,00 €	759,00 €

*Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).



Digital ABS height measuring and marking device

- ABS scale: no setting of the reference point or speed limits
- Accuracy: Fine adjustment for precise positioning
- Durability: contains a carbide scriber

MeasurLink ®	ENABLED
Data management softw	are from Mitutoyo

Order no.	Boordafia		N		Wireless cor	nnection*	Lint pring 6	Daniel de la C
Order no.	Description	Measuring range	e Numerical step value P	rlug type	Sender	Connection unit	List price €	Promotional price €
570-227	Digital ABS height measuring and marking device 0–2	00 mm	0,01 mm	F	02AZD880G	02AZD790F	759,00 €	609,00 €

^{*}Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).

Digital height measuring and marking device with double column

- High accuracy: double column structure for precise measurements
- Easy to read: large digit height of 11 mm
- Durability: carbide-tipped scriber



Order no.	Description	Measuring range Numerical step value Plug type		Wireless cor	nnection*	List price €	Promotional price €	
Order no.	Description	weasuring rang	le Numericai step value P	lug type	Sender	Connection unit	List price €	Promotional price €
192-615-10	Digital height measuring and marking device with	0–1000 mm	0,005 mm	F	02AZD880G	02AZD790F	2.746,00 €	2.199,00 €

^{*}Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).

Digital Messuhr ID-C (ABS)

Digital dial gauge ID-C with MAX/MIN/RANGE-Hold function (ABS)

- Comprehensive measurements: acquisition cycle of 20 ms for Peak values (MAX/MIN/RANGE)
- Customizable display: analog bar display (switchable to 12 different scales) and GO/±NG rating
- Advanced calculations: integrated calculation function Ax with freely definable coefficient
- Model with flat back panel







DIGIMATIC

Order no.	L		l <u>.</u>		Wireless co	nnection*		
Order no.	Description	Measuring range	Numerical step value Pl	ug type	Sender	Connection unit	List price €	Promotional price €
543-300B-10 Dig	gital Messuhr ID-C, MAX-MIN	12,7 mm	0,001 mm	F	264-622	02AZD790F	511,00 €	409,00 €

*Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).

Digital Messuhr ID-C

ABSOLUTE standard version

- Flexibility: bidirectional communication via
 DIGIMATIC S1 interface for PC parameterization
- Clear display: large digital/analog display for easy reading of the Values, models available with a numerical step of 0.5 μm or 10 μm
- Advanced functions: support calculation, peak detection (MAX/MIN/ RANGE) and GO/±NG evaluation
- Protective function: Blocking in case of over-rotation of the rotating display (max. 330°) and function lock as protection against unauthorized use



DIGIMATIC **51**

flat back wall

ABS**O**LUTE™





*The lifting device for measuring bolts and the tripod are not included in delivery and must be purchased separately.

MeasurLink ENABLED

Data management software from Mitutoyo

Order no.	Description	Measuring range Numerical step Meas		ing force	Divertime	Wireless o	onnection*	List price €	
Order no.	Description Measure		go rramensal stop measaling teres		Plug type	Transmitter	connection unit	List price €	Promotional price €
543-715B	Digital Messuhr ID-C	12,7 mm	0,01 mm	0,2-0,5 N	SF	264-622	02AZF700	394,00 €	319,00 €
543-700B	Digital Messuhr ID-C	12,7 mm	0,0005 mm	ÿ 1,5 N	SF	264-622	02AZF700	446,00 €	359,00 €
543-720B	Digital Messuhr ID-C	25,4 mm	0,0005 mm	ÿ 1,8 N	SF	264-622	02AZG011	567,00€	449,00 €
543-730B	Digital Messuhr ID-C	50,8 mm	0,0005 mm	ÿ 1,3 N	SF	264-622	02AZG011	848,00 €	679,00 €

^{*}Transmitter and connection unit are not included and must be purchased separately.

For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).

Digital Messuhr ID-S

ABSOLUTE standard version (Type F)

- ABS scale: no setting of the reference point or Speed limits
- User-friendliness: all functions can be adjusted via large buttons
- Clear display: 9 mm large digits for easy readability
- Long battery life: up to 20,000 hours





the tripod are not included in delivery and must be purchased separately.





Order no.	Description	Measuring range	digit step value	Mass power	Plug type	Wireless of	onnection*	List price €	Promotional price €
543-781B-10 Digital	al Messuhr ID-S	12,7 mm	0,01 mm	ÿ 1,5 N	F	264-622	02AZD790F	187,00 €	149,00 €

*Transmitter and connection unit are not included and must be purchased separately. For wireless connections without Bluetooth®, U-WAVE requires a receiver 02AZD810D (see pages 12–15).



conventional method



mit **U-WAVE**

The system is a solution for wireless, efficient, and accurate data transmission from measuring instruments such as calipers and micrometers to PCs. It optimizes data acquisition, reduces errors, and increases productivity in quality assurance and testing processes.

Time saving and Process optimization by avoiding input errors

Wireless measurement data transmission system U-WAVE

- Large radio range: approx. 20 m (line of sight)
- Reliable transmission: 2.4 GHz radio system for secure data transmission
- Easy export: Ability to send data to Excel® or SPC software such as Mitutoyo's MeasurLink®
- Feedback to user: Confirmation of data reception via buzzer or LED (Beep only available on models equipped with a buzzer)
- Energy efficiency: 400,000 data transfers with a single battery

Wireless measurement data transmission system U-WAVE Bluetooth®

- Long wireless range: approx. 16 m (free line of sight)/10 m (in a manufacturing environment)
- Wireless data transfer: Bluetooth® for easy transfer to PCs, smartphones and tablets
- Flexible setup: Connect up to 7 devices via U-WAVE, no Receiver required; availability of dust/waterproof models
- Clear feedback: Confirmation of data reception via buzzer or LED (beep only available on models equipped with buzzer)

Connection cable and unit for U-WAVE

- Simple connection: special cable or connection unit for connecting the U-WAVE-T or U-WAVE fit transmitter to the digital measuring device
- Easy setup: fixed unit is attached to U-WAVE fit and inserted into the Measuring device plugged in
- Universal cable: Possibility of using the same U-WAVE cable to connect measuring devices to U-WAVE-T and U-WAVE fit transmitters





Sender

Order no.	Description	U-WAVE-Standard	Transmitter ty	pe	Compatibility (type of measuring device)	List price €	Promotional price €
02AZD730G U-W	AVE-Sender	IEEE 802.15.4 (2,4 GHz)	U-WAVE-T	IP67	universal	187,00 €	129,00 €
02AZD880G U-W	AVE-Sender	IEEE 802.15.4 (2,4 GHz)	U-WAVE-T	Summer	universal	187,00 €	129,00 €
264-620	U-WAVE-Sender	IEEE 802.15.4 (2,4 GHz) U-WA\	/E fit	IP67	caliper	185,00 €	129,00 €
264-621	U-WAVE-Sender	IEEE 802.15.4 (2,4 GHz) U-WA\	/E fit Summer		caliper	185,00 €	129,00 €
264-622	U-WAVE-Sender	IEEE 802.15.4 (2,4 GHz) U-WA\	/E fit	IP67	Micrometer, dial gauge	185,00 €	129,00 €
264-623	U-WAVE-Sender	IEEE 802.15.4 (2,4 GHz) U-WA\	/E fit Summer		Micrometer, dial gauge	185,00 €	129,00 €
264-624	U-WAVE-Sender	Bluetooth®	U-WAVE fit	IP67	caliper	185,00 €	139,00 €
264-625	U-WAVE-Sender	Bluetooth®	U-WAVE fit Summe	er	caliper	185,00 €	139,00 €
264-626	U-WAVE-Sender	Bluetooth®	U-WAVE fit	IP67	Micrometer, dial gauge	185,00 €	139,00 €
264-627	U-WAVE-Sender	Bluetooth®	U-WAVE fit Summe	er	Micrometer, dial gauge	185,00 €	139,00 €

Connecting cables for U-WAVE

Order no.	Description	Transmitter type	measuring device	Connector type	e U-WAVE connector (type) List	orice €	Promotional price €
02AZD790A Con	nection cable A for U-WAVE universal		e.g. calipers with IP protection class	Α	U-WAVE-T U-WAVE fit	110,00 €	72,90 €
02AZD790B Con	nection cable B for U-WAVE universal		e.g. outside micrometers with IP protection class, 3-line internal micrometers	В	U-WAVE-T U-WAVE fit	110,00 €	72,90 €
02AZD790C Con	nection cable C for U-WAVE universal		e.g. large standard calipers without high IP protection class	С	U-WAVE-T U-WAVE fit	105,00 €	63,90 €
02AZD790F Con	nection cable F for U-WAVE universal		unidirektionale Messuhren, z. B. ID-S z. B.	F	U-WAVE-T U-WAVE fit	98,00 €	63,90 €
02AZD790D Con	nection cable D for U-WAVE universal		ID-H-Messuhren, SJ-210/310/410, HV-100/ HM-200, HR-530/600 z. B.	D	U-WAVE-T U-WAVE fit	98,00 €	63,90 €
02AZD790E Con	nection cable E for U-WAVE universal		HR-300/400, HH-411		U-WAVE-T U-WAVE fit	98,00 €	63,90 €
02AZD790G Con	nection cable G for U-WAVE universal		ID-N and ID-B dial gauges	G	U-WAVE-T U-WAVE fit	105,00 €	63,90 €
02AZG011 Conn	ection cable SF for U-WAVE universal		bidirectional ID-C and ID-F dial gauges, Linear Height LH-600F/FG	SF	U-WAVE-T	131,00 €	109,00 €

Connection units for U-WAVE fit

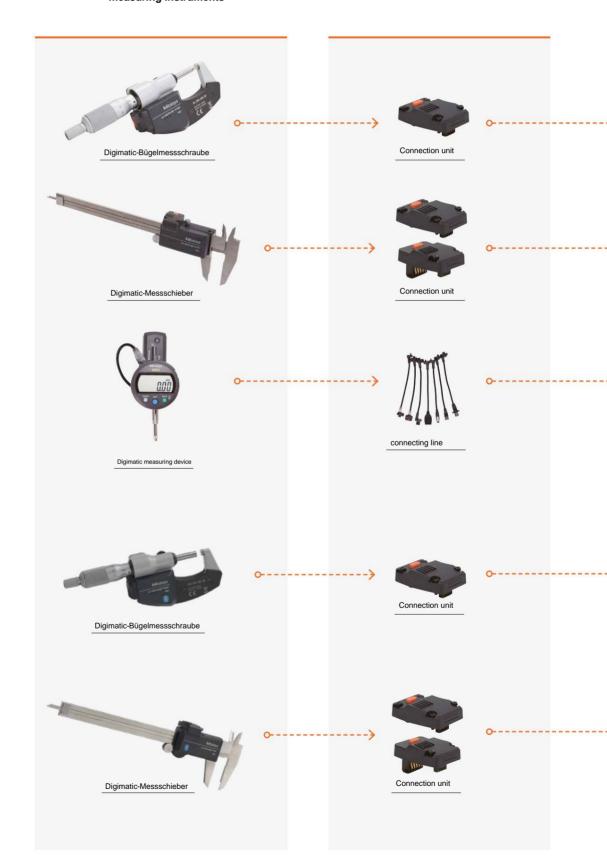
Order no.	Description	Transmitter type	measuring device	Connector type	e U-WAVE connector (type) List	orice €	Promotional price €
02AZF300 Conn	ection unit for U-WAVE fit	U-WAVE fit	Standard caliper without high IP protection class	С	U-WAVE fit	105,00 €	74,90 €
02AZF310 Conn	ection unit for U-WAVE fit	U-WAVE fit IP m	nicrometers, IP calipers bidirectional ID-C dial	В	U-WAVE fit	110,00 €	74,90 €
02AZF700 Conn	ection unit for U-WAVE fit	U-WAVE fit	indicators, Modell 12,7 mm/0,5"	SF	U-WAVE fit	124,00 €	99,90 €
02AZF960 Conn	ection unit for U-WAVE fit	U-WAVE fit	bidirectional QuantuMike Micrometer	SF	U-WAVE fit	107,00 €	74,90 €

Recipient

Order no.	Description	U-WAVE-Standard	Product type	List price €	Promotional price €
02AZD810D	U-WAVE-R data receiver	IEEE 802.15.4 (2,4 GHz)	Recipient	371,00€	249,00 €

U-WAVE

user measuring instruments Connection units



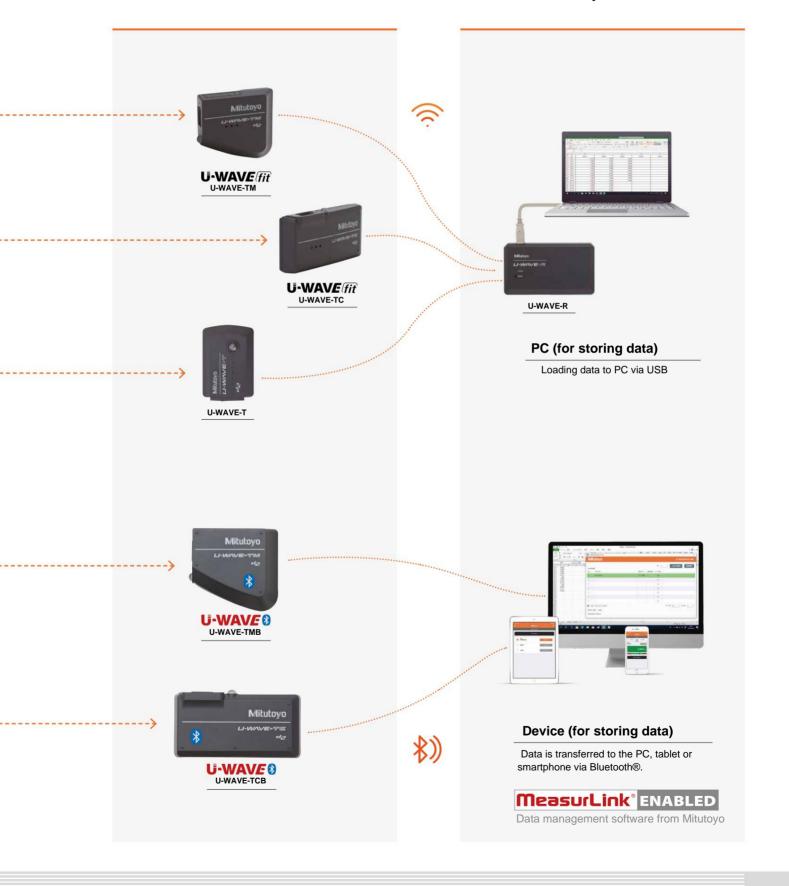


About the following QR code takes you to the "USB Input Tool" in our Webshop; there you will find You information for connection via USB cable.



Sender

Recipient



caliper



Digital ABS caliper (CoolantProof, IP67)







- IP67 protection class: water and dust tight for machining situations where coolant is used
- Robust design: resistance to dust according to DIN EN 60529 and to temporary complete immersion in water
- ABS scale: no setting of the reference point or speed limits

Order no.	Description	Measuring range	Digit step value	Special feature	List price €	Promotional price €
500-181-30	Digital ABS-AOS caliper	0–150 mm	0,01 mm	flat depth gauge	134,00 €	99,90 €
500-182-30	Digital ABS-AOS caliper	0–200 mm	0,01 mm	flat depth gauge	215,00 €	169,00 €
500-184-30	Digital ABS-AOS caliper	0–150 mm	0,01 mm	round depth gauge	134,00 €	99,90 €
500-196-30	Digital ABS-AOS caliper	0–6"/ 0–150 mm	0,0005"/ 0,01 mm	flat depth gauge and drive roller	148,00 €	129,00 €
500-706-20	Digital ABS caliper (CoolantProof, IP67)	0–150 mm	0,01 mm	flat depth gauge	202,00 €	149,00 €
500-707-20	Digital ABS caliper (CoolantProof, IP67)	0–200 mm	0,01 mm	flat depth gauge	279,00 €	219,00 €
500-708-20	Digital ABS caliper (CoolantProof, IP67)	0-300 mm	0,01 mm	flat depth gauge	401,00€	319,00 €





Digital ABS-AOS caliper

- AOS encoder: advanced induction encoder for coolant-tight calipers
- ABS scale: no setting of the reference point or speed limits
- High resistance to dirt: electromagnetic induction for Accuracy, even with dirt (water, oil) on the scale

Analog micrometers



- light structure: robust, stove-enamelled Frame for use in workshops
- Consistent accuracy: constant Measuring power thanks to feel ratchet
- Fast, precise reading: satin chrome-plated Scales for clear, easy-to-read measurements





156-101-10

- Ease of use: ideal for hands-free
 Use of outside micrometers
- Versatility: suitable for micrometers with a measuring range of 0–100 mm, with adjustable angle

Order no.	Description	Measuring range	Scale division	List price €	Promotional price €
193-101	Micrometer	0–25 mm	0,01 mm	155,00 €	119,00 €
103-129	Micrometer, simple design	0–25 mm	0,001 mm	80,00 €	63,90 €
103-137	Micrometer, simple design	0–25 mm	0,01 mm	59,00 €	46,90 €
103-138	Micrometer, simple design	25–50 mm	0,01 mm	84,00 €	66,90 €
103-139-10 Out	side micrometer, simple design	50–75 mm	0,01 mm	110,00 €	87,90 €
156-101-10 Hole	der for micrometers with adjustable angle			70,00 €	55,90 €

Dial gauges

- Versatile options: Compact and standard versions as well as models with measuring bolts on the back available
- Flexible design: outer ring clamp and lifting lever can be attached on both sides, tool-free assembly
- improved protection: absence of screw holes and O-ring seal to prevent the ingress of Water and oil
- Reliable performance: smooth clamping using Shaft bushing and durability thanks to oil-resistant Materials

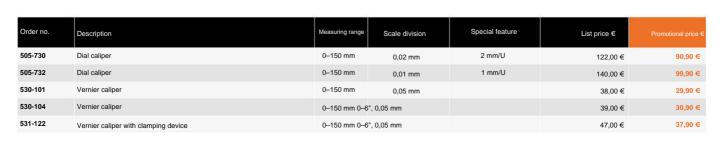


Order no.	Description	Measuring range	Scale division	Special feature	List price €	Promotional price
2046A	Dial gauge, back panel with eyelet, ISO version	10 mm	0,01 mm	Back panel with eyelet	49,00 €	38,90 €
2046AB	Dial gauge, flat back, ISO version	10 mm	0,01 mm	flat back wall	48,00 €	37,90 €
1044A	Dial gauge, back panel with eyelet, ISO version	5 mm	0,01 mm	Back panel with eyelet	76,00 €	60,90 €
1160A	Dial gauge, ISO version	5 mm	0,01 mm	Measuring bolt on the back	146,00 €	119,00 €
2050AB-19 Dia	Il indicator, flat back, ISO version	20 mm	0,01 mm	flat back wall	110,00 €	88,90 €
2052AB-19 Dia	I indicator, flat back, ISO version	30 mm	0,01 mm	flat back wall	140,00 €	109,00 €
2929AB	Dial indicator (one turn), flat back, ISO version	0,8 mm	0,01 mm	flat back wall	114,00 €	90,90 €
513-404-10E Ir	dicator lever, horizontal version	0,8 mm	0,01 mm		105,00 €	84,90 €

Watch and Vernier caliper



- Effortless handling: smooth movements with high shock protection
- Easy to read: dial with large numbers





Indoor precision measuring devices

Internal precision measuring instruments for very small **Drilling**

- Best suited for small bores: 2-point internal measuring instruments specifically designed for precise measurement of small bores
- Speed and precision: Designed for fast, reliable measurements of small hole diameters
- Durable contact points: hard chrome-plated Coating for long-lasting performance

Indoor precision measuring devices

- self-centering internal precision measuring instruments: automatic Alignment via a centering bridge
- High accuracy: hollow-structured handle for Reduction of heat transfer from the operator by 50%
- Incremental accuracy: interchangeable washers with a thickness of 0.5 mm for fine adjustments in small steps (included)
- Durable contact points: carbide (>18 mm range) for wear resistance and high durability

Internal precision measuring instruments for blind holes

- Precise access: inner diameters can be determined almost at the bottom of the bore
- Durable contact points: Hard metal construction for wear resistance and high durability





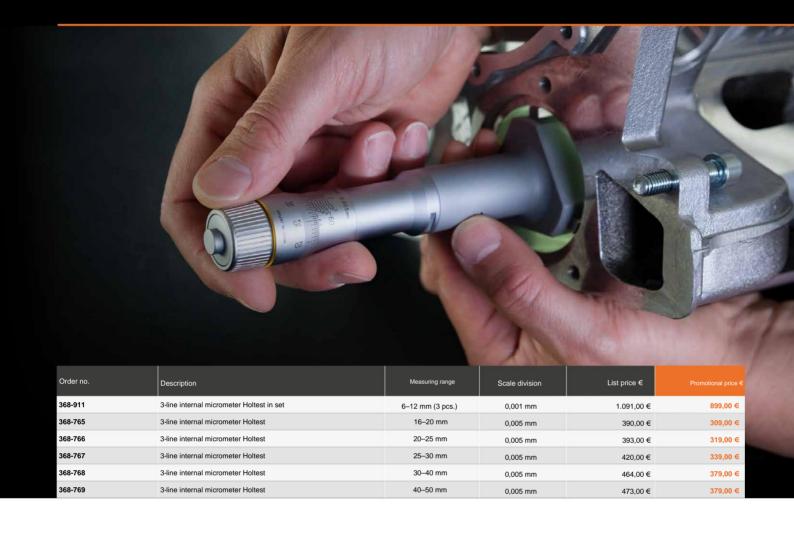


Order no. Description	Measuring range	Scale division	Special feature	List price €	Promotional price €
526-127-20 2-point internal precision measuring device	10–18 mm	0,01 mm	very small holes	407,00 €	329,00 €
511-425-20 2-point internal precision measuring device	15–35 mm	0,01 mm	Blind holes	536,00 €	429,00 €
511-437-20 2-point internal precision measuring device	50–150 mm	0,001 mm	Blind holes	824,00 €	659,00 €
511-712-20 2-point internal precision measuring device	35–60 mm	0,01 mm		311,00 €	249,00 €
511-713-20 2-point internal precision measuring device	50–150 mm	0,01 mm		324,00 €	259,00 €
511-714-20 2-point internal precision measuring device	100–160 mm	0,01 mm		510,00 €	409,00 €
511-724-20 2-point internal precision measuring device	100–160 mm	0,001 mm		586,00 €	469,00 €
511-725-20 2-point internal precision measuring device	160–250 mm	0,001 mm		707,00 €	569,00 €
511-716-20 2-point internal precision measuring device	250-400 mm	0,01 mm		751,00 €	599,00 €





3-line internal micrometers







Holtest - simple model

- inexpensive option: 3-line
 Internal micrometer in the simple version
- Durability: Anvils and cones made of hardened tool steel for reliable
 - Performance
- Basic equipment: no adjustment rings or Extension rod included

Holtest – analog Modell im Set

- Stable measurements: Accuracy thanks to automatic centering
- Resistant surface: measuring inserts made of titanium-coated tungsten carbide (6–12 mm)
- Complete set: 2 adjustment rings and 1 extension rod included

Sets – Laser-Scan-Mikrometer



Modular and daisy-chain capable controllers with industrial interfaces

- High-precision non-contact inline measurement for industrial applications
- Use of two LSM-30-A for diameters up to 160 mm
- Interfaces to support the most common industrial network protocols
- Protection class IP67

Sets (metric)

Designation Order no.	LSM	Controller	Calibration set	Measuring range	Repeatability frequency (total measuring range)	resolution	Measurement (Number of Scans)	Standard interface	List price € Promotional price €
LSM-30-mm-SET1 LSMSET001	30 mm- Sensor (1 Piece)	metric, I/O terminal strip, Power terminal block	storage box, Holder, standard (ø1 mm and ø30 mm)	0,3–30 mm	±0,09 μm	0,01 µm	3.200/s	USB-C	7.561,00 € 6.809,00 €
LSM-02-mm-SET4 LSMSET004	2 mm- Sensor (1 Stk.)	metric, I/O terminal strip, Power terminal block	storage box, Holder, standard (ø0.1 mm and ø2 mm)	0,005–2 mm	±0,03 μm	0,01 µm	3.200/s	USB-C	7.166,00 € 6.459,00 €

Sets (metric/inch)

Designation Order no.	LSM	Controller	Calibration set	Measuring range	Repeatability frequency (total measuring range)	resolution	Measurement (Number of Scans)	Standard- interface	List price € Promotional price €
LSM-30-mm/in-SET2 LSMSET002	30 mm- Sensor (1 Piece)	metric/inch, I/O terminal strip, Power terminal block	storage box, Holder, standard (ø1 mm and ø30 mm)	0,3–30 mm	±0,09 μm	0,01 µm	3.200/s	USB-C	7.561,00 € 6.809,00 €
LSM-02-mm/in-SET3 LSMSET003	2 mm- Sensor (1 Stk.)	metric/inch, I/O terminal strip, Power terminal block	storage box, Holder, standard (Ø0.1 mm and Ø2 mm)	0,005–2 mm	±0,03 μm	0,01 µm	3.200/s	USB-C	7.166,00 € 6.459,00 €



Interface options

Industrial interface units for LSM-A controllers

Order no.	Designation	Interface type	Interface-side Connections	List price €
02AGQ300 LS	SM-EI-A	EtherCAT	2 x RJ45	745,00 €
02AGQ370 LS	SM-EC-A	PROFINET	2 x RJ45	745,00 €
02AGQ350 LS	SM-PN-A	EtherNet/IP	2 x RJ45	745,00 €
02AGQ390 LS	SM-CC-A	CC-Link	2 x RJ45	745,00 €



Optional power supply

Order no.	Description	List price €
63AAA679	LSM power supply 24 V/5 A (only with EU power cable)	300,00 €
21HZA209	DC plug with wire end ferrules	Price on request











Linear Gauge-Sets

Features of all LG sets

- Flexible setup: Connection of up to 2 Linear Gauges per EJ display, 8 displays per interface
- Supported signals: differential square wave
- Easy installation: compatible with a DIN rail, USB-C cable (3 m) included

















	Se	et	Features						
Designation Order no.	Display (Type) Interf	асе Туре	Max. Resolution (mm)	Max. Resolution (in)	Ad-side Connections	Interfac C	e-side onnections	List price €	Promotional price €
EJ-PN-SET1 EJSET001	EJ indicator, metric	PROFINET	0,0001 mm		2 x Linear Gauge USB	3-C 2.0	2 x RJ45	1.701,00 €	1.399,00 €
EJ/in-PN-SET2 EJSET002	EJ indicator, metric/inch	PROFINET	0,0001 mm	0,000005"	2 x Linear Gauge USB	3-C 2.0	2 x RJ45	1.701,00 €	1.399,00 €
EJ-EC-SET3 EJSET003	EJ indicator, metric	EtherCAT	0,0001 mm		2 x Linear Gauge USB	3-C 2.0	2 x RJ45	1.790,00 €	1.469,00 €
EJ/in-EC-SET4 EJSET004	EJ indicator, metric/inch	EtherCAT	0,0001 mm	0,000005"	2 x Linear Gauge USB	3-C 2.0	2 x RJ45	1.790,00 €	1.469,00 €
EJ-EI-SET5 EJSET005	EJ indicator, metric	EtherNet/IP	0,0001 mm		2 x Linear Gauge USB	3-C 2.0	2 x RJ45	1.762,00 €	1.449,00 €
EJ/in-EI-SET6 EJSET006	EJ indicator, metric/inch	EtherNet/IP	0,0001 mm	0,000005"	2 x Linear Gauge USB	3-C 2.0	2 x RJ45	1.762,00 €	1.449,00 €
EJ-CC-SET7 EJSET007	EJ indicator, metric	CC-Link	0,0001 mm		2 x Linear Gauge USB	3-C 2.0	1 x PHOENIX CONTACT- Connection block 1876631	1.687,00 €	1.389,00 €
EJ/in-CC-SET8 EJSET008	EJ indicator, metric/inch	CC-Link	0,0001 mm	0,000005"	2 x Linear Gauge USE	3-C 2.0	1 x PHOENIX CONTACT- Connection block 1876631	1.687,00 €	1.389,00 €
EJ-US-SET10 EJSET010	EJ indicator, metric	USB	0,0001 mm		2 x Linear Gauge USB	3-C 2.0		1.130,00 €	929,00 €
EJ/in-US-SET9 EJSET009	EJ indicator, metric/inch	USB	0,0001 mm	0,000005"	2 x Linear Gauge US	3-C 2.0		1.130,00 €	929,00 €

Download software:



Availability of free software

- LG QuickSetup Tool
- PLC configuration files

Power supply

For stand-alone use, add item 357651, the 12 V/DC AC power adapter (not included in the set).



Linear Gauge displays (optional)

Order no.	Designation	Interface type	Max. Resolution (mm)	Max. Resolution (in)	Ad-side Connections	List price €	Promotional price €
542-080	EJ display 102N	EJ indicator, metric	0,0001 mm		2 x Linear Gauge 2	630,00 €	519,00 €
542-081	EJ display 102NE	EJ indicator, metric/inch	0,0001 mm	0,000005"	x Linear Gauge	630,00 €	519,00 €

Optional power supply



Compatible linear gauges can be found on page 27.

Linear Gauge-Sets

Displays with CEE power supply		Exit				npatibility with near Gauges	List price €	Promotional price €	
542-007D	Display unit EC display	Digimatic display (1 axis)	Digimati	Digimatic output only				393,00 €	319,00 €
542-075D	Display unit EH-101P for Linear Gauge	Display (1 axis) USB i	nterface RS-232C RS-Link		without Reference point detection		LG100 LG200	1.008,00 €	829,00 €
542-071D	Display unit EH-102P for Linear Gauge	Display (2 axes) USB i	nterface RS-232C RS-Link		without Reference point detection		LG100 LG200	1.226,00 €	999,00 €
542-073D	Display unit EH-102Z for Linear Gauge	Display (2 axes) USB i	nterface RS-232C RS-Link		with Reference point detection		LG100 LG200	1.401,00 €	1.149,00 €
542-072D	Display unit EH-102D for Linear Gauge	Digimatic display (2 axes)	USB interface RS-232C RS-Link			LGS		1.226,00 €	999,00 €

Displays with UK power supply		Exit				npatibility with near Gauges	List price € Promotional price €		
542-007E	Display unit EC display	Digimatic display (1 axis)	Digim	atic output on	ly	LGS		393,00 €	319,00 €
542-075E	Display unit EH-101P for Linear Gauge	Display (1 axis) USB in	nterface RS-232C RS-Link		without Reference point detection		LG100 LG200	1.008,00€	829,00 €
542-071E	Display unit EH-102P for Linear Gauge	Display (2 axes) USB in	nterface RS-232C RS-Link		without Reference point detection		LG100 LG200	1.226,00 €	999,00 €
542-073E	Display unit EH-102Z for Linear Gauge	Display (2 axes) USB in	nterface RS-232C RS-Link		with Reference point detection		LG100 LG200	1.401,00 €	1.149,00 €
542-072E	Display unit EH-102D for Linear Gauge	Digimatic display (3 axes)	USB interface RS-232C RS-Li	nk		LGS		1.226,00 €	999,00€

Software				atibility		List price €	Promotional price €
02NGB072	SENSORPAK/E V3.0	Software for measurement data acquisition	EH-P	EH-D	EH-Z	892,00€	779,00 €

Accesories			Ad compa	tibility		List price €
21HZA195	Adapter for EH display: 542-075D/542-071D	required when using the EH-P display LG100		LG200	EH-P	Price on request
21HZA196	Adapter for EH display: 542-073D	required when using the EH-Z display LG100		LG200	EH-Z	Price on request

Linear-Ga	uge (Typ) Measuring rang	ge digit step value	function	IP protection class	ABSOLUTE- function	Ac	I compatibil	ity			List price € Pron	notional price €
575-303	LGS-1012PE 12,7 mm	0,01 mm	DIGIMATIC	P 66	ABSOLUTE™				EH-D	EC	225,00 €	179,00 €
575-313	LGS-1012PE 0,5"	0,01 mm	DIGIMATIC	P 66	ABSOLUTE™				EH-D	EC	231,00 €	189,00 €
542-190	LG100-110 10,0 mm	1,0 µm		1P67 G		EJ-Set	EH-P	EH-Z			725,00 €	599,00 €
542-191	LG100-0510 10,0 mm	0,5 μm		P 67 G		EJ-Set	EH-P	EH-Z			725,00 €	599,00 €
542-192	LG100-0110 10,0 mm	0,1 μm		P 67 G		EJ-Set	EH-P	EH-Z			772,00 €	629,00 €
542-193	LG100-125 25,0 mm	1,0 µm		P 67 G		EJ-Set	EH-P	EH-Z			899,00 €	739,00 €
542-194	LG100-0525 25,0 mm	0,5 µm		P 67 G		EJ-Set	EH-P	EH-Z			899,00 €	739,00 €
542-195	LG100-0125 25,0 mm	0,1 µm		P 67 G		EJ-Set	EH-P	EH-Z			955,00 €	789,00 €
542-196	LG100-150 50,0 mm	1,0 µm		P 67 G		EJ-Set	EH-P	EH-Z			1.076,00 €	889,00 €
542-197	LG100-0550 50,0 mm	0,5 μm		P 67 G		EJ-Set	EH-P	EH-Z			1.076,00 €	889,00 €
542-186	LG200-110 10,0 mm	1,0 µm		P 67 G		EJ-Set	EH-P	EH-Z			837,00 €	689,00 €
542-187	LG200-0510 10,0 mm	0,5 μm		(P)67 G		EJ-Set	EH-P	EH-Z			837,00 €	689,00 €
542-188	LG200-0110 10,0 mm	0,1 µm		1 67 G		EJ-Set	EH-P	EH-Z			941,00 €	769,00 €

EJ series compact display*3 RS-232C/USB*1 USB Industrial I/O interface 2-phasige Square wave RS-232 *1 The USB output of the EH display is specifically designed for SENSORPAK. *2 An adapter plug is required for connection to the EH display. *3 Conventional measuring devices can be connected using adapter cables. (Please contact us for details on connectable measuring devices.)

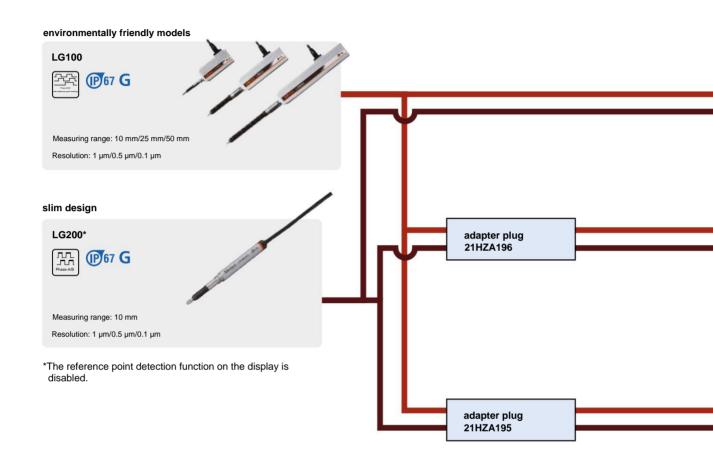
(P) 67 G

Protection class for harsh environmental conditions

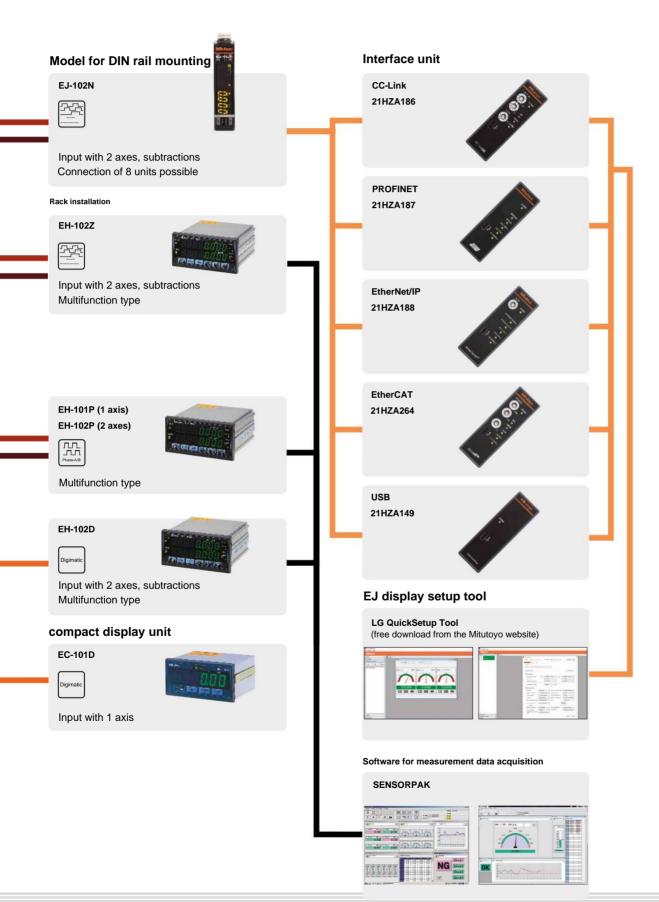
The IP67 rating provides complete dust and water resistance (30 minutes, 1 m depth). The "G" indicates additional oil resistance.

27

Linear Gauge-Sets







Next-generation RoundtracerFlash



The Roundtracer Flash is an investment in precision, reliability and future-proof technology.

- · all familiar features now even better than ever
- elegant, modern design that impresses
- Advanced features for first-class performance
- Revision for greater ease of use
- improved user experience without compromising reliability
- higher load capacity: more versatility through new engine that can handle up to 15 kg payload
- Easy maintenance: Reduction of downtime thanks to quickly accessible housing
- Optional automation: motorized upper abutment for automatic loading/unloading (sold separately)
- Familiar software: unchanged user interface, no additional training required
- Quick setup: faster installation after redesign

Discover products:



Clamp & start twostage measurement

Measurement at the touch of a button (a single button)



The new surf test \$J-220



Precision in Pocket size for Surface roughness measurement

The brand-new Surftest SJ-220 is a portable surface roughness tester. The compact, battery-operated, and touchscreen-equipped SJ-220 is ideal for use in

can be used anywhere.

E-Learning



Deepen your knowledge: everything about the SJ-220

functions and features

- Overview of Surftest SJ-220: Introduction to its
- Calibration: Step-by-step instructions for correctly calibrating the device
- Carrying out measurements: detailed instructions for carrying out accurate surface measurements
- Theory and practice of measurement technology: understanding measurement theory and standards (DIN EN ISO 21920 and DIN EN ISO 4287)
- Measurement data and tolerance: Help with the interpretation of measurement data and compliance with tolerance
- Measurements via Android smartphone and PC: convenient options for measuring using Android smartphone or PC
- Accessories: Overview of available accessories for an improved trade fair experience
- Settings: optimal performance thanks to instructions to configure the settings
- Final test: final test to evaluate and consolidate your knowledge of the SJ-220



learn more:





- Easy to use: 2.8" color LCD touchscreen with smartphone-like navigation
- Wireless connectivity: optional Bluetooth® for communication with Android devices (via a free app) and PCs (via the free Software "SJ Communication Tool")
- Support of the DIN EN ISO 21920 standard
- Intuitive navigation: simply designed menu
- Multilingual interface: Support for 25 languages





Extended functionality in conjunction with a smartphone!



SmartMeasure-AL

SmartMeasure-AL is an advanced system for automated measurements using coordinate measuring machines (CMMs).

It includes a racking system (palletizing and positioning system),
an I/O station, a storage system, system pallets, a collaborative robot, and a CMM



- Easy to use intuitive graphical user interface with very little training required
- Smart connectivity use in conjunction with a variety of devices and different software
- Turnkey solution easy and quick setup
- Easy reporting display of measurement results and their export to the Production software
- **Measurement of multiple workpieces** Measurement of different workpieces thanks to clamping systems equipped with RFID chips
- Flexible configuration adaptation to different requirements without great effort

Automatic quality control system



Turnkey Solution



Smart Connectivity



Modular



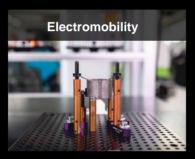
24/7-Operation

The perfect solution for your industry











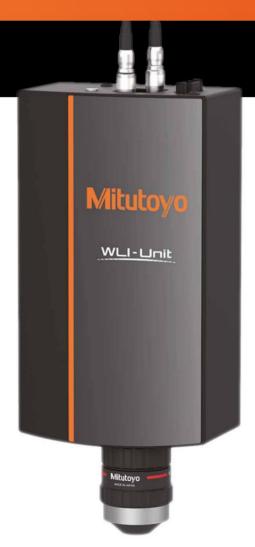


WLI unit for precise 3D measurement

PROFILE AND ROUGHNESS IN NANOMETER-AREA

The white light interferometer (WLI) is a non-contact sensor for the rapid detection of the smallest 3D structures.

The technology enables roughness measurements and topographical images with nanometer resolution. WLI components can be used flexibly as separate OEM products or combined for integration into manufacturing environments and as a stand-alone measurement system.



Discover products:



WLI Unit

- High accuracy: non-contact 3D roughness measurement and topographical images
- Stability: height accuracy independent of magnification
- Durability: high robustness against vibrations at compact and lightweight design

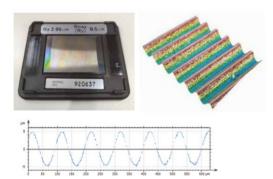


The lenses mounted on the WLI unit are optional.

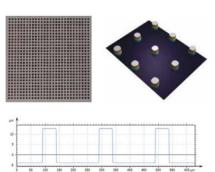


Examples of measurements with WLI

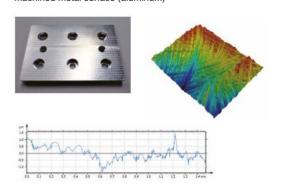
Raunormal (3 µm)



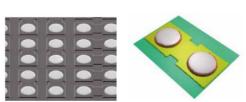
Cu Pattern (Glass Substrate)



machined metal surface (aluminum)



Test structure (TEG) of a semiconductor device



Courtesy of Walts Co., Ltd. and ASK INDEX Corporation

Tools for the

Entry into the

Training



Order no.	Description	Measuring range	Scale division	List price €	Promotional price €
530-101	Vernier caliper	0–150 mm	0,05 mm	38,00 €	29,90 €
103-137	Micrometer, simple design	0–25 mm	0,01 mm	59,00€	46,90 €



Height measuring and marking devices with vernier scale

- Precise and quick reading thanks to satin chrome-plated main scale and vernier scale
- cranked and carbide-tipped scriber

The best

Entry into the industry

While you are in a
When you're taking on a
new life-changing role, you
need to be able to rely
on robust, high-quality
instruments that won't let
you down.



Order no.	Description	Measuring range	Scale division	List price €	Promotional price €
506-207	Height measuring and marking device with vernier scale	0–200 mm	0,02 mm	415,00 €	329,00 €
514-102	Height measuring and marking device with vernier scale	0-300 mm	0,02 mm	498,00 €	399,00 €

Promotion valid from April 1 to May 31, 2025. We reserve the right to make technical changes and developments without notice. Prices apply to business customers only.

All prices are net in EURO plus VAT – further information is available at www.mitutoyo.de.

Delivery and prices of the products offered here are available and valid while stocks last. Subject to technical changes, errors, and misprints.

Culick Vision

Hardness testers

Linear Scale

Hand measuring instruments

Data transmission systems

A MISSA (C.).

No matter what measuring task you face, Mitutoyo supports you from start to finish.

Mitutoyo is one of the world's largest suppliers of industrial length measurement technology and thus the guarantee for the effective solution of your individual measuring tasks with enormous product diversity, innovative technology and exemplary service.

Take advantage of Mitutoyo's diverse range of services for your measurable success. Draw on a broad portfolio of products and services in the field of length measurement technology. From handheld measuring instruments to customized solutions, from calibration services to contract measurement From project planning to outstanding service.

Note: The product images are non-binding. The product descriptions, especially all technical data, are only binding upon express agreement.

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