



VOGEL[®]
GERMANY
Measuring Solutions



















PROMOTION 2022












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Explanations






















In our promotion you will find several pictograms beside the text description. They should be helpful for a quick and easier explanation of the articles and their attributes.





























Protection (IP class) acc. to DIN 40050 / IEC 60529 etc.	
	Protected against solid particles Ø > 1 mm
	Splash water resistant
	Drop water resistant
	Drop water resistant
	Dust and spray water resistant
	Dust and spray water resistant
	Dust and jet water resistant
	Water and oil resistant (at times)
	Article is explosion proof
	Article with UL-certificate (american safety norm)




Manufacturing process	
	Article with laser engraved scale / graduation
	Article with etched scale / graduation
	Article with printed scale / graduation (Pad print)
	Hardened
	Carbide measuring faces
	Stainless steel

Product specifications	
	Caliper jaw length
	Measuring internal dimension
	Caliper jaws (cross shape)
	Caliper jaws (knife shape)
	Depth Gauge
	Fine adjustment
	Thread pitch
	Measuring inside
	Measuring outside
	Pointer rotation
	Setting gauge

Icons for data process	
	RS232 data output by data cable
	Opto RS232 data output
	Proximity data output, inductive, contactless
	Data output by USB and data cable
	Data output by USB and Mini USB (compatible with Mitutoyo Digimatic)
	wireless communication (WiFi / WLAN) possible
	wireless communication via Bluetooth® possible
	Software on CD-Rom
	Setting the absolute zero point

Norms, accuracy-classes, regulations	
	Article fulfils the standard of the tolerance class I
	Article fulfils the standard of the tolerance class II
	Article fulfils the standard of the tolerance class III
	Article fulfils the respective verification standard
	Workshop calibration certificate, inclusive
	Article with CE classification
	Directive of the European Parliament and of the council on measuring instruments
	Article with strengths tolerances acc. to DIN 2275
	Article with strengths tolerances acc. to DIN 2275
	Article fulfils the respective American standard
	Article fulfils the respective American standard
	Article fulfils the respective British standard
	Article fulfils the respective Japanese standard
	Article fulfils the respective DIN standard
	Article fulfils the respective DIN EN standard
	Article fulfils the respective ISO standard
	Article fulfils the respective DIN ISO standard
	Article manufactured acc. to tolerances of workshop standard
	Article with seal: "TÜV/Geprüfte Sicherheit (GS)"
	Article with seal: "TÜV"
	Article fulfils the respective norm standard

Several Icons	
	Article-Number
	Reading / Resolution
	Cross section of the article
	Max. total accuracy(±)
	Repeatability (±)
	Individual measuring range
	Article dimension
	Measuring- and weighing-unit selectable or swichtable
	Optical tolerance signal
	Corresponding battery included
	Corresponding battery included
	Corresponding cell battery included
	Corresponding cell battery included
	Corresponding lithium battery included
	Corresponding lithium battery included
	Accu
	Power supply
	Laser protection class
	Magnet power
	Induction
	Laser wavelength
	Shock proof
	Stand out
	Reading in mm and inch
	Reading in cm and inch
	Article with ABS/INC measuring system
	Article with ABSOLUTE measuring function
	Warranty 1, 2 or 3 years

Prices and delivery	
	We charge transport and packing costs
	Product and Promotion Price
	Certificate inclusive (no additional costs)

Length Measurement Stainless Steel Rules, matt chromed • Straight Edges with bevel • Stainless Steel Rule, matt chromed Aluminium Rules, double-sided • Electr. Digital Scales • Pocket Measuring Tapes Circumference Measuring Tapes	Page 3 – 6	Length Measurement	
Calipers „Absolute“ Electr. Digital Calipers • Electr. Digital Calipers • „Absolute“ Electr. Digital Calipers Small Pocket Vernier Caliper • Electr. Digital Workshop Calipers • Brake Disc Calipers „Absolute“ Digital Caliper for Inside or Outside Grooves • Electr. Digital Tread Depth Gauge Brass Button Gauges • Electr. Digital Depth Calipers • Depth Calipers Electr. Digital Thickness Caliper • Electr. Digital Brake Disc Caliper	Page 7 – 14	Calipers	
Micrometers Electr. Digital Micrometers • External Micrometers • Electr. Digital 3-Point Bore Micrometer Bore Gauge Set with Dial Indicator • Internal Micrometer • Internal Micrometer Set	Page 15 – 18	Micrometers	
Dial Gauge and Stand Electr. Digital Dial Indicators • „Absolute“ Electr. Digital Dial Indicator Measuring Bridge for Depth Measurements • Small Dial Indicator • Dial Indicator Electr. Digital Test Indicator • Universal Magnetic Measuring Stand • Magnetic Measuring Stand Measuring Stand Column • Mini-Magnetic Measuring Stands • Precision Measuring Tables	Page 19 – 23	Dial Gauges and Stands	
Scribing Devices Divider • Spring Circle • Universal Marking Gauge • Steel Scriber • Protractor Protractors (Skew Measurer) • Bevel Squares • Marking Gauges Electr. Digital Marking Gauge and Protractor • Precision Workshop Squares Flange Square • Electr. Digital Height and Marking Gauges Carbide Tipped Steel Scribes • Carpenter's Square „Alpha“ Classic Magnetic Measuring and Clamping V-Block • V-Block Pair with Clamps Precision Knife Straight Edges • Wooden box	Page 24 – 30	Scribing Devices	
Test Equipment Feeler Gauge Sets • Feeler Gauge Set, made from brass • Valve Regulation Gauge Set Screw Pitch Gauges • Spark Plug Gauge • Hole Gauge • Setting Ring Gauge Limit Thread Plug Gauge Set • Parallel Gauge Block Set • Rectangular Gauge Block Set Precision Parallel Support Sets • Precision Parallel Support Sets, magnetic Precision Inspection Frame Spirit Level	Page 31 – 35	Test Equipment	
Measuring Instruments BARCOL Impressor, Hardness Tester • Universal Digital Rebound Hardness Tester Shore Hardness Tester „Durometer“ • Ultrasonic Thickness Gauge Electr. Digital Moisture Meter • Electr. Digital Multimeter • Infrared Laser Thermometers Electr. Digital Sound Level Meter • Electr. Digital Luxmeter • Electr. Digital Anemometer Surface Finish Specimen „RUGOTEST“ • Infrared Thermometer • Hand-Held Refractometer Digital Refractometer	Page 36 – 41	Measuring Instruments	
Miscellaneous Inspection Tool Kit • Professional Inspection Mirrors • Professional LED Illuminated Magnifiers Electr. Digital Tire Pressure Gauge • Electr. Digital Stopwatch Electr. Digital Angle Measurer Spirit Level • Data Cable and Accessorie for Electr. Digital Devices	Page 42 – 44	Miscellaneous	

Length Measurement

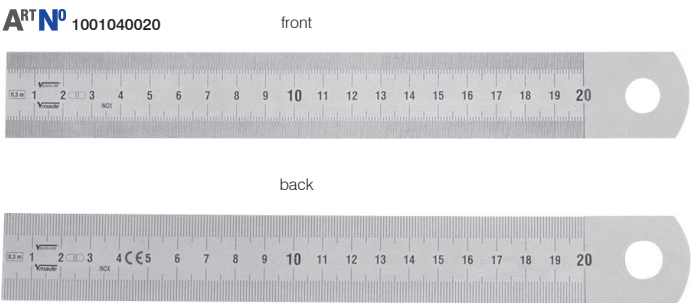
Stainless Steel Rules, matt chromed

acc. to tolerance class II

- graduations on front and back
- graduation deeply etched
- matt chromed, non glare surface
- stainless spring steel
- cm graduation

front top and bottom 1/1 mm graduation

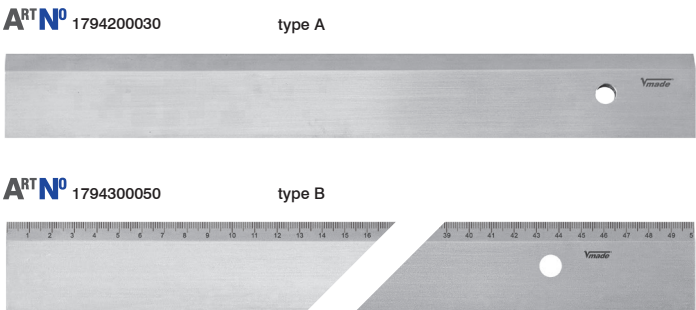
back top 1/2 mm and bottom 1/2 mm graduation





ART N°	 mm		€	
1001040020	200	13 x 0.5	5.09 3.82	on request
1001240050	500	18 x 0.5	18.24 13.68	on request
1001260050	500	30 x 1.0	38.50 28.88	on request

Straight Edges with bevel

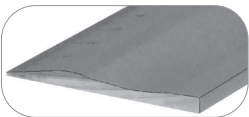
- for simple workshop use
- made of steel
- chromed version
- type A = without graduation, type B = with mm graduation
- graduation black etched, bevel edge matt chrome finish





ART N° type A	€	ART N° type B	€	 mm	 mm
1794200030	21.76 16.32	—	—	300	40 x 5
1794200040	30.58 22.94	—	—	400	40 x 5
1794200050	37.25 27.94	1794300050	44.35 33.26	500	40 x 5
1794200080	47.80 35.85	—	—	800	40 x 5

Straight Edges with bevel

- for technicians
- made of hard aluminium
- anodised quality
- with black printed mm graduation and cm numbering

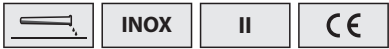
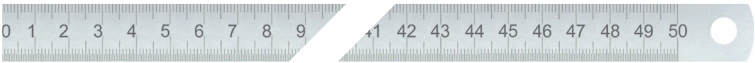




ART N°	 mm	 mm	€
1795300030	300	50 x 5	7.38 5.54
1795300060	600	50 x 5	10.98 8.24
1795300100	1000	50 x 5	16.29 12.22
1795300180	1800	50 x 5	22.46 16.85

Stainless Steel Rule, matt chromed

acc. to tolerance class II

- graduation on front and back
- graduation deeply etched
- matt chromed, non glare surface
- stainless spring steel
- graduation: Top 1/1 mm, Bottom 1/2 mm



ART N°	 mm		€	CC
1001260050-1	500	30 x 1.0	18.63 13.98	on request

Aluminium Rules, double-sided

NEW

acc. to tolerance class II



- made of hardened aluminium
- reading from left to right
- made of black anodized aluminum
- non glare reading, matt surface
- lasered graduation with clear reading
- graduation on the front and back
- calibration certificate on request

graduation frontside:
top 1/1 mm, bottom 1/1 mm



graduation backside:
top 1/2 mm, bottom 1/2 mm



ART N°	 mm		€	CC
1070050015	150	40 x 2.0	9.99 7.49	on request
1070050020	200	40 x 2.0	12.90 9.68	on request
1070050025	250	40 x 2.0	14.95 11.21	on request
1070050030	300	40 x 2.0	16.95 12.71	on request
1070050040	400	40 x 2.0	19.95 14.96	on request
1070050050	500	40 x 2.0	24.95 18.71	on request

Electr. Digital Scale • IP67 (only scale)

- for horizontal and vertical use
- stainless steel, hardened rail
- with electronic unit and separate LCD display
- for mounting on machine tools, milling-, drilling machines and for many other purposes
- with data output, top model (connectivity also for Digimatic measuring devices)

- large LCD display with clear reading, digit height 18 mm
- rugged plastic housing, with built-in magnet on the backside
- incl. fixture for wall mounting of the LCD display, with accessories
- flexible application, in horizontal and vertical position
- expandable with additional electronic units and LCD displays
- On/Off switch, zero setting at any position, data hold function
- Preset-, Origin-, ABS / INC button
- unit switchable in mm/inch/fraction in inch
- incl. 2x 3 V battery (type CR2032, art. no.: 90112), with operation manual

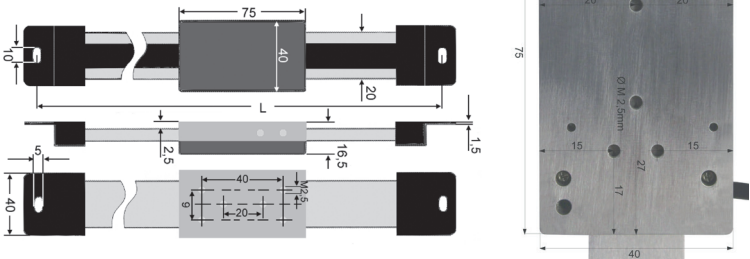
Options





- data box with USB port, art. no.: 2420194
- footswitch for data box, art. no.: 209011
- transmitter for wireless communication via WiFi, art. no.: 209006
- receiver for wireless communication via WiFi, art. no.: 209007
- transmitter and receiver for wireless communication as set, art. no.: 2040101



Option: Transmitter art. no.: 209006

Option: Receiver art. no.: 209007



ART N°	 mm / inch	 mm / inch	 mm	 max. mm	L mm	€	CC
102922	300 / 16	0.01 / 0.0005	0.01	0.10	436	155.17 116.38	on request

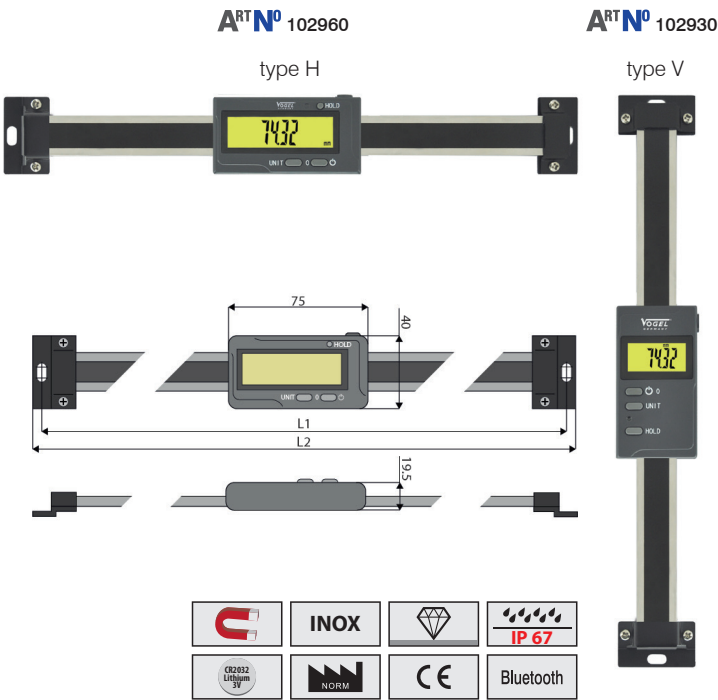
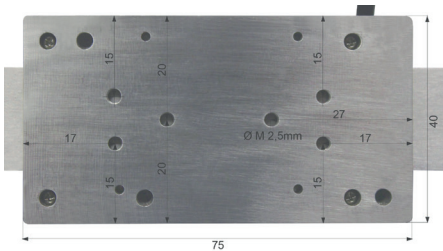
Length Measurement

Electr. Digital Scales • IP67

- in horizontal and vertical version
 - stainless steel, hardened rail
 - with LCD display on the rail
 - for mounting on machine tools, milling-, drilling machines and for many other purposes
 - with integrated Bluetooth® technology
- large LCD display with clear reading, digit height 10 mm
 - flexible application, in horizontal and vertical position
 - On/Off switch, DATA function
 - zero setting at any position
 - unit switchable in mm/inch
 - incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Option

- data transfer via Bluetooth®, art. no.: 2023106



ART N° type H	€	ART N° type V	€	mm / inch	mm / inch	mm	max. mm	L 1 mm	L 2 mm	CC
102960	105.76 79.32	102930	105.76 79.32	150 / 6	0.01/ 0.0005	0.01	0.02	277	286	on request
102961	121.34 91.01	102931	121.34 91.01	200 / 8	0.01/ 0.0005	0.01	0.03	317	326	on request
—	—	102932	137.31 102.98	300 / 12	0.01/ 0.0005	0.01	0.03	417	426	on request

Pocket Measuring Tapes

tolerance class II acc. to MID

- exceptional tape stability
 - suitable for craftsmen and industry
 - ergonomic design
 - lies save and non slip in your hand
- rugged and rubber covered housing with stainless metal clip and lanyard
 - yellow coated blade, high rubb-off resistant and kink resistant
 - self adjusting end-hook, with magnetic dots
 - long-life spring made of special steel, automatic blade return and blade stop
 - black/red figures, black scale
 - with two-point magnetic fixing



with hanging card

ART N° 141003



ART N°	mm	max. mm	mm	mm	mm	€
graduation in mm						
141003	3 m	0.9	16	65 x 65 x 35	1400	3.96 2.97
141005	5 m	1.3	19	65 x 73 x 35	1750	5.45 4.09
141008	8 m	1.8	25	80 x 85 x 40	2100	8.94 6.71
141010	10 m	1.8	25	80 x 85 x 40	2100	11.02 8.27
graduation in mm/inch						
141103	3 m / 122 inch	0.9	16	65 x 65 x 35	1400	3.96 2.97
141105	5 m / 197 inch	1.3	19	65 x 73 x 35	1750	5.45 4.09
141108	8 m / 315 inch	1.8	25	80 x 85 x 40	2100	8.94 6.71

Pocket Measuring Tapes, in stainless steel metal housing

tolerance class II acc. to MID

- exceptional tape stability
- suitable for craftsmen and industry
- with graduation on front- and backside
- backside with crosswise graduation for comfortable vertical reading
- autom. blade-stop
- lies save and non slip in your hand
- rugged and rubber covered housing, with stainless metal clip and lanyard
- yellow coated blade, high rubb-off resistant and kink resistant
- self adjusting end-hook, with magnetic dots
- long-life spring made of special steel, automatic blade return and blade stop
- black/red figures, black scale
- with two-point magnetic fixing



backside: vertical reading

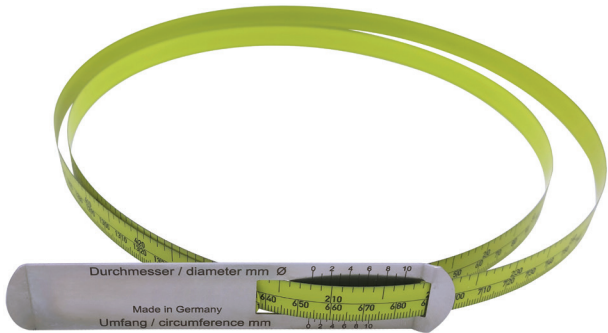


ART No							€
141403	3	0.9	19	80 x 75 x 35	1750	7.79 5.84	
141408	8	1.8	25	80 x 75 x 42	2100	13.53 10.15	

Circumference Measuring Tapes **NEW**

acc. to tolerance class II

- yellow strap coated with polyamide
- with clear reading
- for measuring diameters and circumferences
- application areas are among others manufacturers of: pipelines, boiler and tank construction, tire industry, forestry, etc.
- made of stainless steel
- graduation continuous in mm



ART No	circumference mm	diameter mm				€
183001-G	60 – 950	20 – 300	0.1	13 x 0.20	on request	59.98 44.99
183003-G	60 – 3780	20 – 1200	0.1	13 x 0.20	on request	78.95 59.21
183006-G	60 – 7540	20 – 2400	0.1	13 x 0.20	on request	123.47 92.60
183009-G	60 – 11310	20 – 3600	0.1	13 x 0.20	on request	184.21 138.16

Calipers

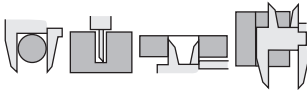
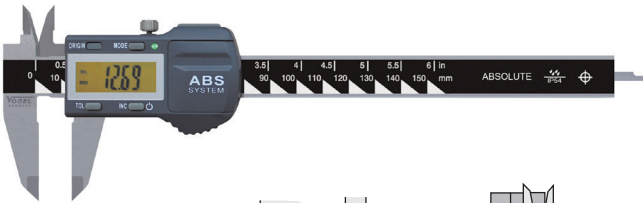
“Absolute“ Electr. Digital Calipers • IP54

DIN 862

- professional standard caliper
- with optical tolerance alarm by LED signal
- with glass rail for more accuracy
- with data output (micro USB)
- spray water proof acc. to DIN 40050 / IEC 60529
- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 9 mm digit height
- jaws finely ground and lapped, with fixing screw
- with PRESET/ORIGIN/ABS/INC-system
- On/Off button, autom. power off
- mm/inch switchable, zero setting at any position
- incl. 2x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Options

- data transfer via cable (art. no.: 3420195)
- data transfer via WiFi (art. no.: 2040102) and via Bluetooth® (art. no.: 209009)



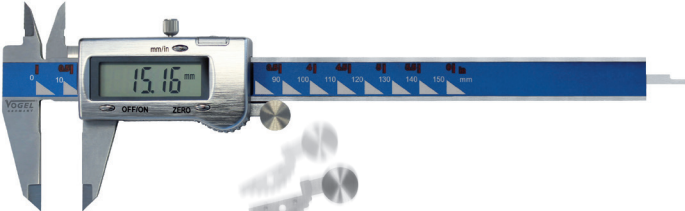
ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	mm	mm
202181	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	165.80	124.35	on request
202182	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	206.05	154.54	on request

Electr. Digital Calipers

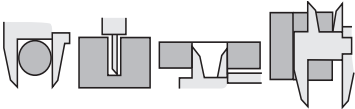
DIN 862

- standard caliper
- with glass rail for more accuracy
- housing with metal cover and metal buttons
- with data output (mini USB)

- sturdy quality, stainless steel, hardened
- with or without thumbroll (included, for self installation)
- large LCD display with clear reading, 9 mm digit height
- jaws finely ground and lapped
- On/Off-button, with flat or round depth gauge
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual



with removeable thumbroll



Option

- data transfer via cable, art. no.: 209001



ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	mm	mm
202040-3	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	flat	56.29	42.22	on request
202042-3	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	135.30	101.48	on request
202043-3	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	round	63.98	47.99	on request

Electr. Digital Caliper

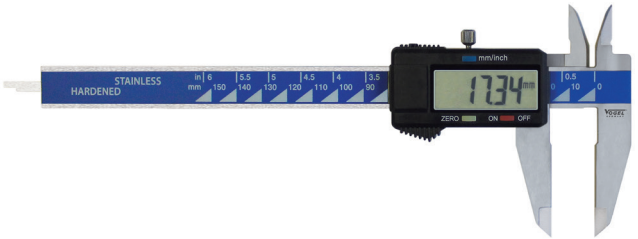
DIN 862

- for left hand use

- stainless, hardened
- large LCD display with clear reading, 10 mm digit height
- jaws finely ground and lapped
- On/Off button, with flat depth gauge
- mm/inch switchable, zero setting at any position
- incl. 1x 1.5 V battery (type LR 44, art. no.: 90213), with operation manual

Option

- data transfer via cable, art. no.: 209001



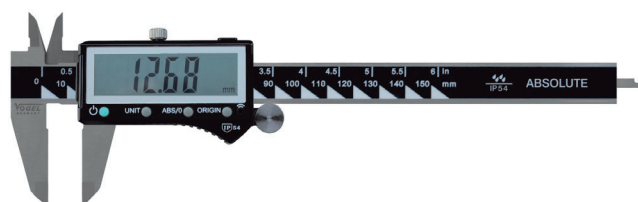
ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	mm	mm
202038	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	159.87	119.90	

„Absolute“ Electr. Digital Calipers • IP54 • with „ORIGIN“ System, with Bluetooth

DIN 862

- professional standard caliper
- water and coolant proof acc. to DIN 40050 / IEC 60529
- with integrated Bluetooth® technology (max. 5m distance)

- mechanic parts stainless, hardened steel
- large LCD display with clear reading, digit height 13 mm
- Absolute-System, with “ORIGIN“-system
- measuring jaws finely ground and lapped
- On/Off-button, with fixing screw, with thumbroll
- mm/inch switchable, zero-setting at any position
- incl. 2x 3 V battery (type CR2032, art. no. 90112), with operation manual



Option

- Datenübertragung via Bluetooth®, art. no.: 2023106

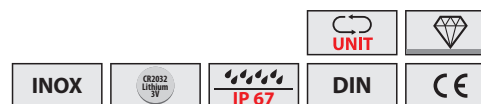
ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	€	CC
202420	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	flat	95.74 71.81	on request
202421	200 / 8	0.01 / 0.0005	0.01	0.02	50	19.5	flat	120.00 90.00	on request

Electr. Digital Calipers • IP67 • without „ORIGIN“ System, without Bluetooth

DIN 862

- professional standard caliper
- Splashproof acc. to DIN 40050 / IEC 60529

- mechanic parts stainless, hardened steel
- large LCD display with clear reading, digit height 13 mm
- measuring jaws finely ground and lapped
- On/Off-button, with fixing screw, with thumbroll
- mm/inch switchable, zero-setting at any position
- incl. 2x 3 V battery (type CR2032, art. no. 90112), with operation manual



ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	€	CC
202420-2-OB	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	flat	74.38 55.79	on request
202421-2-OB	200 / 8	0.01 / 0.0005	0.01	0.02	50	19.5	flat	85.43 64.07	on request

Electr. Digital Caliper

DIN 862

- made of carbon fiberglass, non-conductive and especially made for electronic and sensitive purposes, like food sector and automotive parts

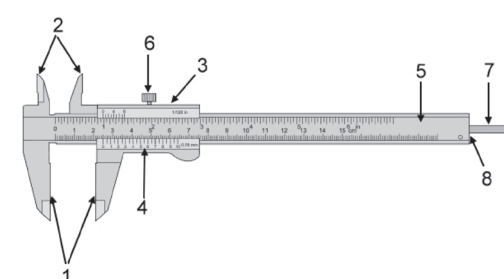
- large LCD display with clear reading, 13 mm digit height
- autom. On/Off, mm/inch switchable and zero setting at any position
- without depth gauge, made of carbon fiberglass
- incl. 1x 1,5 V battery (type LR44, art. no.: 90213), with operation manual



ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	€
202202	100 / 4	0.01 / 0.0005	0.01	0.02	30	12	14.65 10.99

Important components of a mechanical caliper

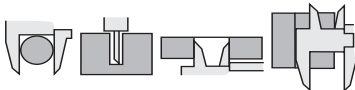
- 1) measuring jaws for external measurement
- 2) measuring tips for inside measurement
- 3) vernier slide
- 4) vernier
- 5) measurement rail with scale
- 6) locking screw
- 7) depth gauge
- 8) measuring surface for depth measurement



Calipers

Electr. Digital Caliper

- for standard requirements
- mechanic in stainless steel, hardened
- with thumbroll
- large LCD display with clear reading, 13 mm high
- jaws finely ground and lapped, flat depth gauge
- On/Off button, mm/inch, zero setting at any position
- incl. 1x 1.5 V battery (type LR44, art. no.: 90213), with operation manual

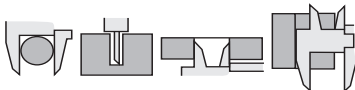
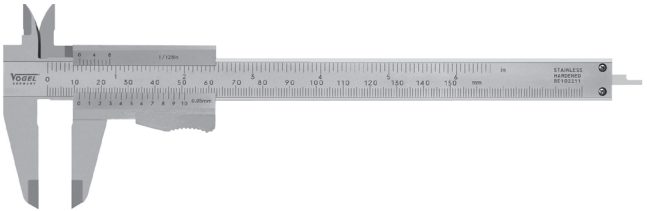


ART N°	mm / inch	mm / inch	mm	mm	mm	mm		€	CC
202002	150 / 6	0.01 / 0.0005	0.01	0.03	40	16	flat	21.32 15.99	on request

Pocket Vernier Calipers

DIN 862

- standard caliper
- with fixing screw
- stainless steel, hardened
- reading in mm/inch, scale laser engraved
- reading satin chrome finish
- jaws fine ground and lapped
- mono-block vernier
- flat or round depth gauge

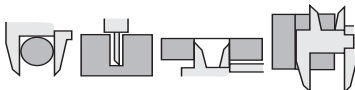
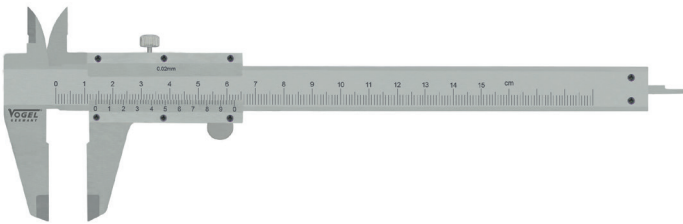


ART N°	mm / inch	bottom mm	top inch	mm	mm		€	CC
201024	200 / 8	0.05	1/128	50	19	flat	40.02 30.02	on request
201026	200 / 8	0.02	1/1000	50	19	flat	40.02 30.02	on request

Pocket Vernier Caliper

DIN 862

- for DIY requirements
- reading in mm/cm
- reading satin chrome finish
- hardened
- jaws fine ground
- with fixing screw
- flat depth gauge



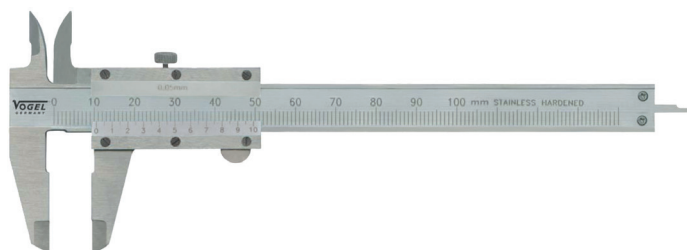
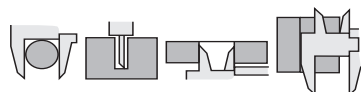
ART N°	mm	mm	mm	mm		€
201005	150	0.02	40	16	flat	13.50 10.13

Small Pocket Vernier Caliper

DIN 862

- for crafts, also very popular promotional item

- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- jaws finely ground and lapped
- with fixing screw



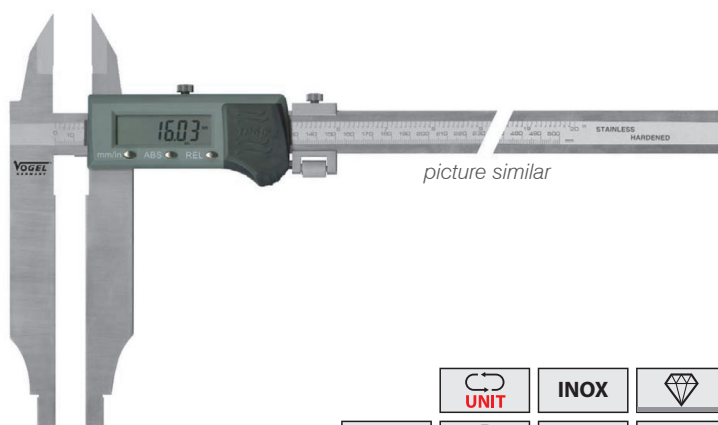
ART N°							€	CC
201010	100	0.05	30	13	flat		21.36 16.02	on request

Electr. Digital Workshop Caliper • IP66

acc. to workshop grade

- water and coolant proof acc. to DIN 40050 / IEC 60529

- stainless steel, hardened
- large LCD display with clear reading, digit height 11 mm
- jaws finely ground and lapped
- offset jaws for inside measurements
- On/Off button, automatic shutdown, mm/inch switchable
- zero setting at any position, with REL-, ABS- and PRESET-mode
- function buttons made of metal
- with fine adjustment, with knife points
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual



picture similar



ART N°								€	CC
207048	1000 / 40	0.01 / 0.0005	0.01	0.07	150	67	20	932.37 699.28	on request

„Absolute“ Electr. Digital Workshop Calipers • IP54

acc. to workshop grade

- water- and coolant proof acc. 40050 / IEC 60529

- large LCD display with clear reading, 11 mm digit height
- mechanic parts, stainless steel, hardened
- measuring jaws finely ground and lapped
- offset jaws for inside measurements
- with PRESET/ORIGIN/ABS/INC-system
- On/Off button, mm/inch switchable
- zero-setting at any position, DATA HOLD function
- with fine adjustment, with or without knife points
- incl. 2x 3 V batteries (type CR2032, art. no.: 90112), with operation manual

Options

- data transfer via cable, art. no.: 2420194
- data transfer via WiFi, art. no.: 2040101
- data transfer via Bluetooth®, art. no.: 2023106 + 209000



ART N° 207030

ART N° 207130



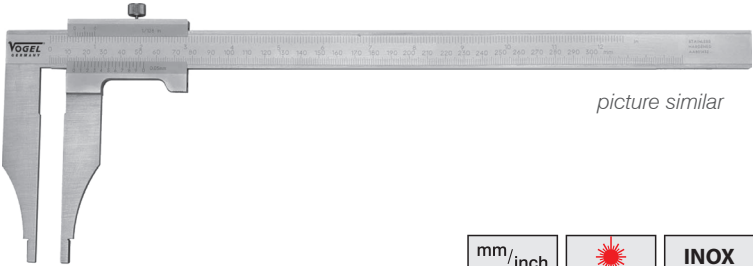
ART N°								€	CC
207030	300 / 12	0.01 / 0.0005	0.01	0.03	90	38	10	162.62 121.97	on request
207130	300 / 12	0.01 / 0.0005	0.01	0.03	90	—	10	143.68 107.76	on request
207131	500 / 20	0.01 / 0.0005	0.01	0.05	150	—	20	242.85 182.14	on request

Calipers

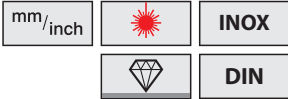
Workshop Caliper

DIN 862

- precision class
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- jaws finely ground
- offset jaws for inside measurements
- with or without fine adjustment, without knife points
- with fixing screw
- mono block vernier
- with identification number
- with cm/inch reading



picture similar

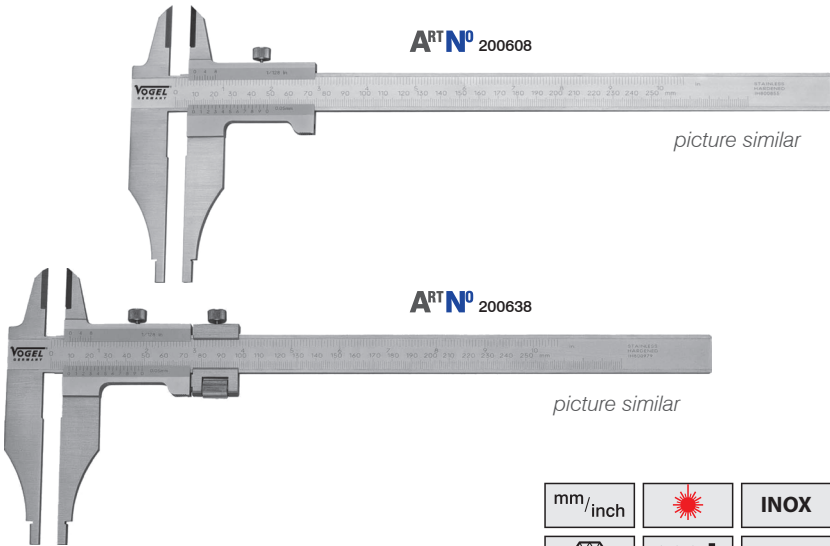


ART No	mm / inch	bottom mm	top inch	mm	ø mm	€	CC
200508	800 / 32	0.05	1/128	150	20	530.25 397.69	on request

Workshop Caliper

DIN 862

- precision class
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- jaws finely ground
- offset jaws for inside measurements
- with or without fine adjustment, with knife points
- with fixing screw
- mono block vernier



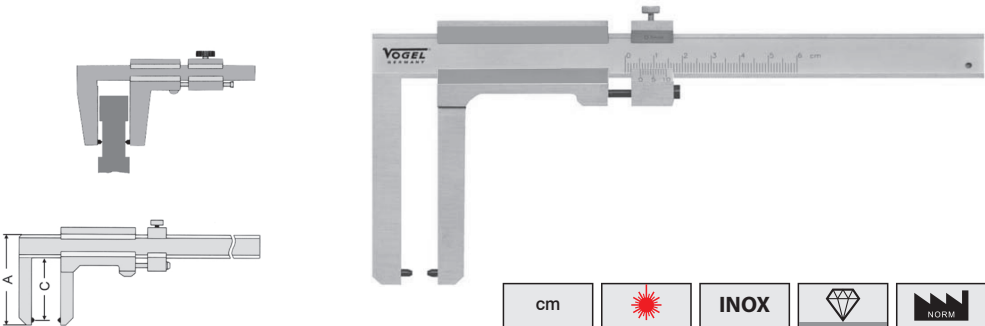
picture similar



ART No	€	ART No	€	mm / inch	bottom mm	top inch	mm	mm	ø mm	CC
200608	734.49 550.87	200638	715.32 536.49	800 / 32	0.05	1/128	150	67	20	on request

Brake Disc Calipers

- with drag pointer
- for measuring the thickness of installed brake discs
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale



ART No	mm	mm	A mm	C mm	mm	€	CC
206003	0 – 60	0.10	67	50	55	46.8 35.10	on request
206004	0 – 60	0.10	102	79	83	48.45 36.34	on request
206005	0 – 90	0.10	142	119	120	76.95 57.71	on request

Electr. Digital Caliper

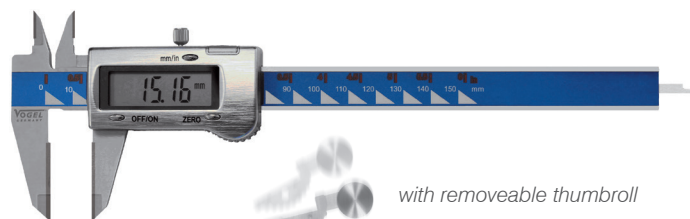
DIN 862

- jaws and measuring tips with carbide
- with metal cover and metal buttons
- with data output (mini USB)

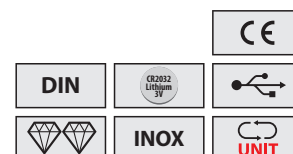
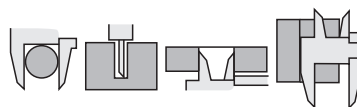
- sturdy quality, stainless steel, hardened
- with or without thumbroll (included, for self installation)
- large LCD display with clear reading, 9 mm digit height
- jaws finely ground and lapped, with fixing screw
- On/Off button
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Option

- data transfer via cable, art. no.: 209001



with removeable thumbroll



ART N°	mm / inch	mm / inch	mm	mm	mm	mm	flat	€	CC
202020-3	150 / 6	0.01 / 0.0005	0.01	0.03	40	16.5	flat	144.87 108.65	on request

„Absolute“ Digital Caliper for Inside or Outside Grooves • IP54

DIN 862

- for inside groove measurement, top model for industry purposes
- with glass rail for more accuracy
- spray water proof acc. to DIN 40050 / IEC 60529
- with data output, top model (connectivity also for Digimatic measuring devices)

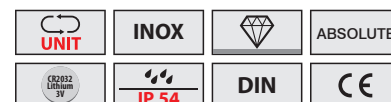
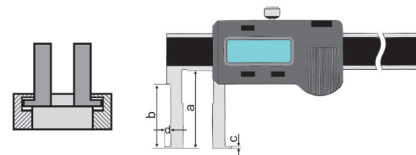
- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 9 mm digit height
- jaws finely ground and lapped, with fixing screw
- On/Off button, with „ORIGIN“ system, with thumbroll
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Options

- data transfer via cable (art. no.: 2420194), via WiFi (art. no.: 2040101) and via Bluetooth® (art. no.: 2023106 + 209000)



picture similar



ART N°	mm / inch	mm / inch	mm	mm / inch	A mm	B mm	C mm	D mm	€
201083	25 – 200 / 0 – 8	0.01 / 0.0005	0.01	0.03 / 0.0015	46	39	1	7	114.57 85.93

Electr. Digital Tread Depth Gauge

- suitable for craftsmen and industry

- large LCD display, digit height 9.5 mm
- On/Off button, zero setting at any position
- mm/inch switchable
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual



oval probe tip
(4.1 mm x 3.1 mm)



ABS plastic version



ART N°	mm / inch	mm / inch	mm	mm	€
214442	0 – 25 / 0 – 1	0.01 / 0.0005	0.03	60.0	9.99 7.49

Brass Button Gauges

- also very popular as a promotional gift

- made of hard brass, surface finely ground
- with dove-tail guiding, vernier reading
- promotional engraving possible on the front or rear



ART N°	mm / inch	mm	mm	€
214301	80 / 3	0.10	20	6.27 4.70

Calipers

Electr. Digital Depth Calipers • IP67

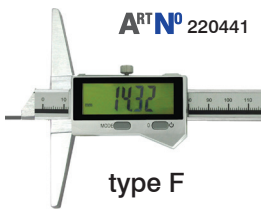
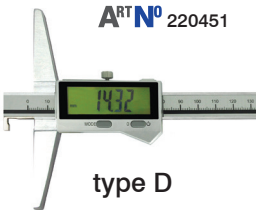
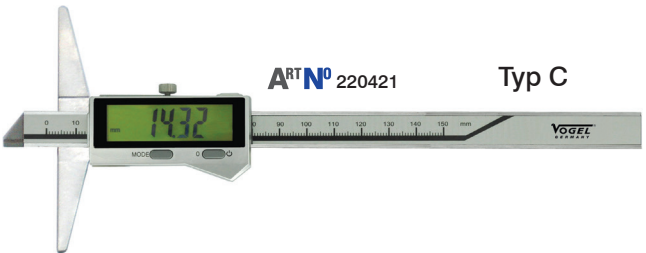
DIN 862

- with integrated Bluetooth® technology
- top model for industry purposes
- water- and coolant proof acc. to DIN 40050 / IEC 60529

- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 13 mm digit height
- jaws finely ground and lapped, with fixing screw
- On/Off button, data transfer button
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Option

- data transfer via Bluetooth® (art. no.: 2023106)



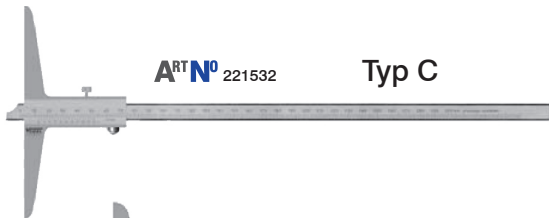
ART No	type	mm / inch	mm	mm	mm / inch	Type / size of measuring surface mm	€	CC
220421	C	150 / 6	0.01 / 0.0005	0.03	100	5.5	105.09 78.82	on request
220422		200 / 8	0.01 / 0.0005	0.03	100	5.5	131.38 98.54	on request
220423		300 / 12	0.01 / 0.0005	0.04	150	5.5	164.21 123.16	on request
220451	D	150 / 6	0.01 / 0.0005	0.03	100	5 / 2	121.52 91.14	on request
220453		300 / 12	0.01 / 0.0005	0.04	150	5 / 2	180.64 135.48	on request
220431	E	150 / 6	0.01 / 0.0005	0.03	100	26.4 / 4	131.38 98.54	on request
220432		200 / 8	0.01 / 0.0005	0.03	100	26.4 / 4	157.64 118.23	on request
220433		300 / 12	0.01 / 0.0005	0.04	150	26.4 / 4	203.61 152.71	on request
220441	F	150 / 6	0.01 / 0.0005	0.03	100	ø 1.5 / 6	111.69 83.77	on request
220442		200 / 8	0.01 / 0.0005	0.03	100	ø 1.5 / 6	131.38 98.54	on request
220443		300 / 12	0.01 / 0.0005	0.04	150	ø 1.5 / 6	170.78 128.09	on request

Depth Calipers

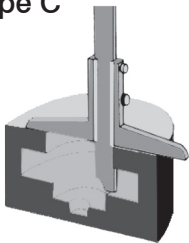
DIN 862

- suitable for craftsmen and industry

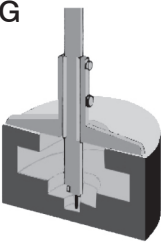
- stainless steel, hardened, vernier and scale matt chrome finish
- surfaces finely ground, with fixing screw
- mono block vernier, reading 0.05 mm
- straight bar, series type "C"
- exchangeable tip, reversible, series type "G"



type C



type G



ART No	€	ART No	€	mm	mm	mm	CC
type C		type G					
—	—	221731	57.30 42.98	200	0.05	100	on request
221535	41.44 31.08	—	—	250	0.05	125	on request
221532	55.23 41.42	—	—	300	0.05	150	on request
221534	114.59 85.94	—	—	500	0.05	150	on request

Electr. Digital Caliper

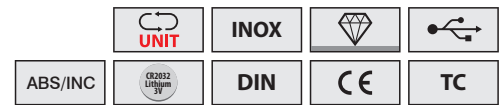
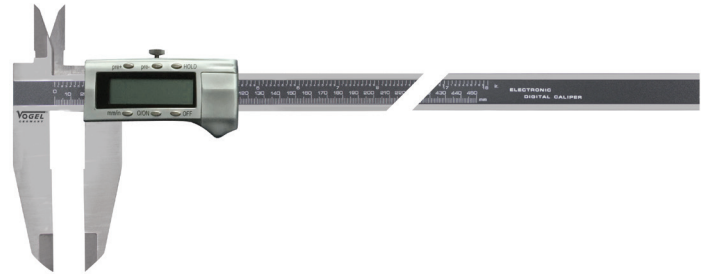
DIN 862

- with metal housing and metal buttons
- standard model for larger measuring range
- with data output (mini USB)

- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 9 mm digit height
- jaws finely ground and lapped, with fixing screw
- On/Off button, with battery status display
- with ABS/INC measuring system
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Option

- data transfer via cable, art. no. 209001



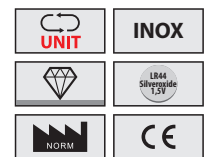
ART N°	mm / inch	mm / inch	mm	max. mm			€	CC
202007-2	450 / 18	0.01 / 0.0005	0.01	0.04	100	38	285.00 213.75	Inclusive

Electr. Digital Thickness Caliper

acc. to workshop grade

- with autom. return spring on the right measuring jaw

- stainless steel, hardened
- LCD display with clear reading, digit height 9 mm
- carbide measuring jaws in disc shape
- zero setting at any position, mm/inch switchable
- On/Off button, with HOLD function
- with fixing screw
- incl. 2x 1.5 V battery (type LR44, art. no.: 90213), with operation manual



ART N°	mm / inch	mm / inch	mm	max. mm	A mm	L mm	€	CC
206015	50 / 2	0.01 / 0.0005	0.01	0.04	50	140	130.00 97.50	Inclusive

Electr. Digital Brake Disc Caliper • IP54

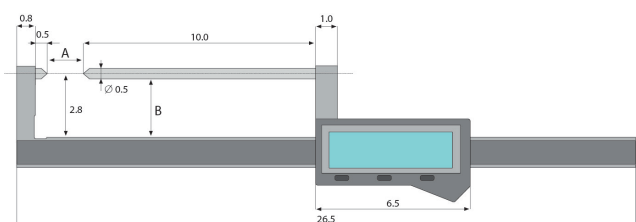
acc. to workshop grade

- for quick and easy measurement WITHOUT removing the tires (only aluminium rims)

- mechanic in stainless steel, hardened
- LCD display with clear reading, digit height 13 mm
- conical, hardened knife points
- zero setting at any position, mm / inch / fraction switchable
- On/Off button, with HOLD function
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual



fractional display in inches



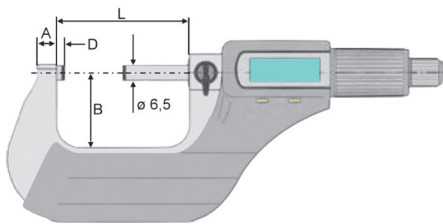
ART N°	mm / inch	mm / inch	mm	max. mm	A mm	B mm	€	
206022	80 / 3.2	0.01 / 0.0005	0.02	0.02	85.1	25.5	74.04 55.53	

Micrometers

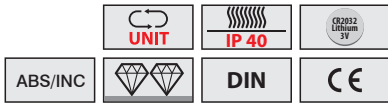
Electr. Digital Micrometers • IP40

DIN 863

- dust resistant acc. to DIN 40050 / IEC 60529
- Absolute Measurement System (ABS-system)
- frame lacquered, with insulation plates, sturdy quality
- large LCD display, clear reading, digit height 8 mm
- with carbide surfaces, lapped, spindle hardened and ground
- On/Off button, zero setting at any position
- mm/inch switchable, ABS/INC measuring system
- locking lever for quick and precise fixing
- with friction ratchet for constant measuring pressure
- friction ratchet with rubber studs for better handling
- incl. 1x 3 V battery (type CR2032, art. no. 90112), with operation manual
- from up 25 mm with setting gauge



ergonomically designed
handle shape



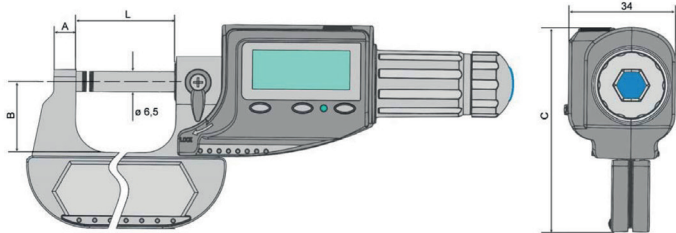
ART N°	mm / inch	mm / inch	ø mm	mm	A mm	B mm	D mm	L mm	max. mm	€	CC
231062	25 – 50 / 1 – 2	0.001 / 0.00005	22	0.5	6	32	3.5	57	0.003	94.72 71.04	on request
231063	50 – 75 / 2 – 3	0.001 / 0.00005	22	0.5	7	44	3.5	82	0.004	116.66 87.50	on request
231064	75 – 100 / 3 – 4	0.001 / 0.00005	22	0.5	8	59	3.5	108	0.005	134.09 100.57	on request

Electr. Digital Micrometers • IP54

DIN 863

- top model for industry purposes
- with optical tolerance alarm by LED signal
- with data output (micro USB)
- spray water resistant acc. to DIN 40050 / IEC 60529
- sturdy quality, frame lacquered, with insulation plates
- large LCD display with clear reading, 10 mm digit height
- friction ratchet made from aluminium
- carbide surfaces, lapped, spindle hardened and ground
- with tolerance preset, SET button
- On/Off button, autom. power off
- locking lever for quick precise fixing
- with ratchet for constant measuring pressure
- incl. 1x 3 V battery (type CR2032, art. no. 90112), with operation manual

- Options
- data transfer via cable, art. no. 3420195
 - data transfer via WiFi, art. no. 2040102
 - data transfer via Bluetooth, art. no. 209009



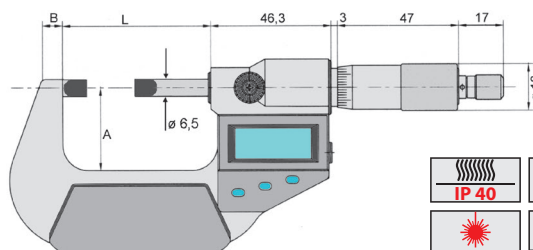
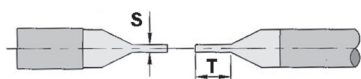
ART N°	mm / inch	mm / inch	ø mm	mm	A mm	B mm	C mm	L mm	max. mm	€	CC
231231	0 – 25 / 0 – 1	0.001 / 0.00005	21	0.5	7	22.5	64.7	31.5	0.003	125.00 93.75	Inclusive
231232	25 – 50 / 1 – 2	0.001 / 0.00005	21	0.5	8	31	84.4	56.5	0.003	149.00 111.75	Inclusive
231233	50 – 75 / 2 – 3	0.001 / 0.00005	21	0.5	9	44	97.9	81.5	0.004	175.00 131.25	Inclusive
231234	75 – 100 / 3 – 4	0.001 / 0.00005	21	0.5	9	56	115.9	107.1	0.004	196.00 147.00	Inclusive

Electr. Digital Micrometer • IP40

DIN 863

- dust resistant acc. to DIN 40050 / IEC 60529
- to measure small grooves, etc.
- Absolute Measurement System (ABS-system)

- LCD display, with clear reading, digit height 7 mm, mm/inch switchable
- drum with metric scale
- frame lacquered, with insulated plates
- non-rotating spindle with blade measuring faces
- ABS/INC measurement system
- zero setting at any position, On/Off button
- locking wheel for quick and precise fixing
- with ratchet for constant measuring pressure
- incl. 1x 1.5 V battery (type LR44, art. no.: 90213), with operation manual

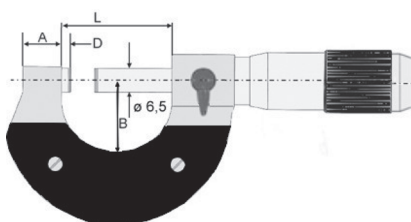


ART N°	mm / inch	mm / inch	A mm	B mm	L mm	S mm	T mm	max. mm	€	CC
232381	0 – 25 / 0 – 1	0.001 / 0.00005	26.5	6	57.0	0.75	6.5	0.002	325.08 243.81	on request

External Micrometers

DIN 863

- sturdy quality, in top precision version
- drum and sleeve matt chromed finish
- hammer blow grey lacquered frame, with insulation plates
- carbide surfaces, lapped, spindle hardened and ground
- locking lever for quick and precise fixing
- with ratchet for constant measuring pressure
- with setting gauge



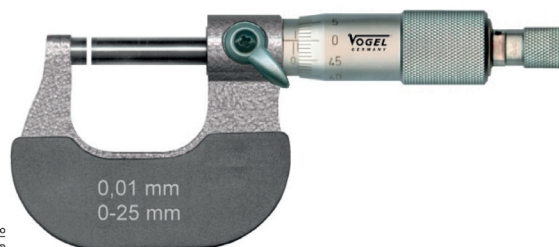
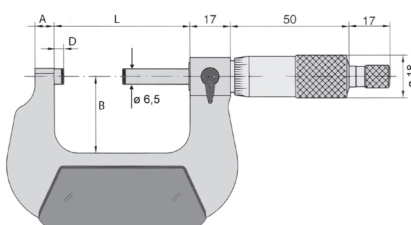
ART N°	mm	mm	ø mm	mm	A mm	B mm	D mm	L mm	max. mm	€	CC
231322	25 – 50	0.01	20.5	0.5	8	31	3	57	0.004	74.46 55.85	on request
231323	50 – 75	0.01	20.5	0.5	9	45.5	3	83	0.005	89.73 67.30	on request
231324	75 – 100	0.01	20.5	0.5	9	56.5	3	109	0.005	97.38 73.04	on request

External Micrometers

DIN 863

- for standard expectations

- drum and sleeve matt chrome finish
- frame hammer blow grey lacquered, with insulated handle
- carbide surfaces, lapped, spindle hardened and ground
- locking lever for quick and precise fixing
- with ratchet for constant measuring pressure
- with setting gauge

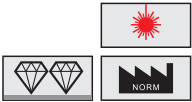







ART N°	mm	mm	ø mm	mm	A mm	B mm	D mm	L mm	max. mm	€	CC
231354	75 – 100	0.01	18	0.5	8	57	3.0	107	0.005	48.71 36.53	on request
231355	100 – 125	0.01	18	0.5	8	70	3.0	133	0.006	60.89 45.67	on request
231356	125 – 150	0.01	18	0.5	8	82	3.0	158	0.006	67.91 50.93	on request
231357	150 – 175	0.01	18	0.5	8	95	5.5	183	0.007	76.89 57.67	on request

Micrometers

External Micrometer

- for measuring plates and panels
- 100 step graduation
- with deep frame
- drum and sleeve matt chrome finish
- frame hammer blow grey lacquered
- carbide surfaces, lapped, spindle hardened and fine ground
- without insulation plates
- with ratchet for constant measuring pressure



ART N°	 mm	 mm	 ø mm	 mm	spindle-ø mm	 mm	€	CC
232611	0 – 25 x 50	0.01	24	1.0	6.5	0.002	409.53 307.15	on request

Electr. Digital 3-Point Bore Micrometer • IP54





- spray water proof acc. to DIN 40050 / IEC 60529
- for bore holes and blind holes
- with data output, top model (connectivity also for Digimatic measuring devices, Mitutoyo compatible)

- LCD unit with clear reading, digit height 8 mm
- chromed finish, self-centering and self-aligning
- with friction ratchet for constant measuring pressure
- with tungsten carbide measuring faces
- zero setting at any position, On-/Off-button
- measuring unit switchable mm/inch, with ABS/INC-system
- data hold function, ± preset function
- incl. setting ring and with extension rod
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual

Options

- data transfer via cable (art. no.: 2420194)
- data transfer via WiFi (art. no.: 2040101) and via Bluetooth® (art. no.: 209000)

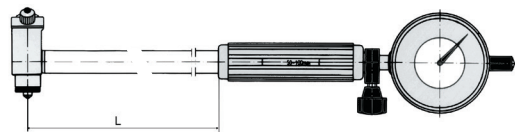




ART N°	 mm / inch	 mm / inch	 mm	L1 mm	B mm	C mm	extension rod mm	 ø mm	€	CC
236441	62 – 75 / 2.45 – 3.00	0.001 / 0.00005	0.005	55	16.5	0.5	150	62	660.99 495.74	on request

Bore Gauge Set with Dial Indicator

- for quick and easy measuring of bores
- standard precision, especially for workshop use

- matt chrome finish pipe, with insulation handle
- hardened contact points, with operation manual



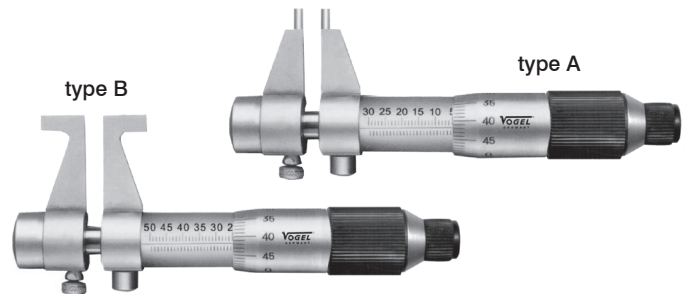
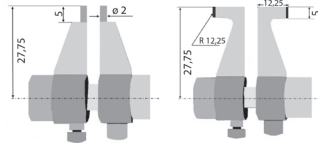
ART N°	 mm	 mm	quantity of contact points	quantity of distance plates	L mm	€	CC
237012	18 – 35	0.01	7	2	142	82.30 61.73	on request









Internal Micrometer

DIN 863

- for standard requirements in measuring

- drum and sleeve matt chrome finish
- carbide measuring faces in rounded shape
- clamping screw for quick and precise fixing
- with ratchet for constant measuring pressure



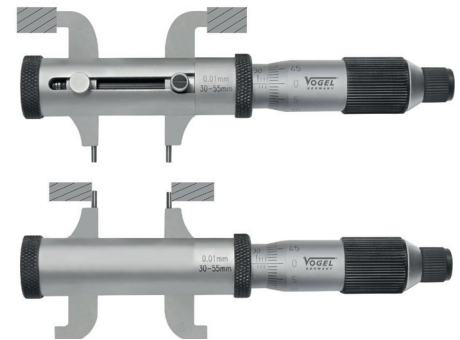
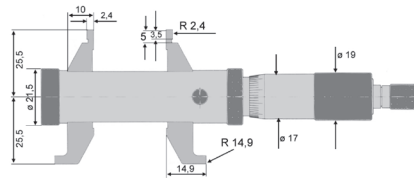
ART N°		type							
231615	5 – 100 (Set)	A + B	0.01	18	0.5	5 + 25	0.005 / 0.006 / 0.007 / 0.008	425.96 319.47	on request

Internal Micrometer

acc. to workshop grade

- with double-measuring jaws and setting ring
- quality measuring equipment, for standard requirements

- drum and sleeve matt chrome finish
- carbide measuring faces in rounded shape
- two measuring jaws for two different ranges
- easy reading through scale on the front and back
- clamping screw for quick and precise fixing
- with friction ratchet for constant measuring pressure
- with setting ring \varnothing 30 mm
- with clamping screw for quick and precise fixing



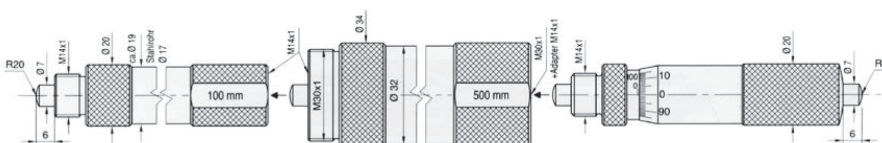
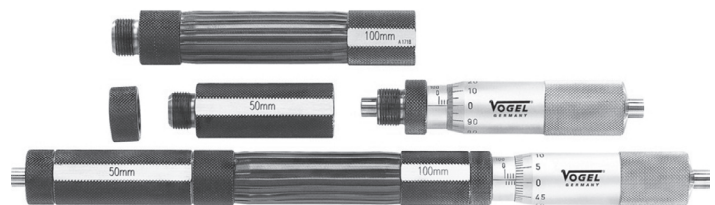
							
230610	5 – 55 mm	0.01 mm	0.5 mm	30 mm	0.006 mm	208.43 156.32	on request






Internal Micrometer Set

DIN 863







- spring loaded end gauges
- with screw-on extensions

- drum and sleeve matt chrome finish
- carbide equipped measuring heads, spherically lapped, $\varnothing 7 \times 6 \text{ mm}$
- high accuracy because of spring loaded measuring end
- with insulation handle
- individual packed extensions are available on request








ART N°	 mm	 mm	 mm	quantity of anvils with Rohr-ø 17 mm	 mm	€	
230446	100 – 2100	0.01	0.5	50 / 100 / 200 / 400 / 800	0.018	3.129,24 2.346,91	on request



ART ^{Nº}	 mm / inch	 mm / inch	 mm	measuring force N	min/max tol/set	A mm	B mm	€	
242160	0 – 12.7 / 0 – 0.5	0.001 / 0.00005	0.003 0.05	< 1.50		50	75	197.01 147.76	on request
242056	0 – 25.4 / 0 – 1.0	0.001 / 0.00005	0.003 0.05	< 1.50		60	110	263.41 197.56	on request



ART ^{NO}	 mm / inch	 mm / inch	 mm	 mm	L mm	A mm	B mm	D mm	€	
240280	12.5 / 0.5	0.01 / 0.0005	0.002	0.01	129.2	60.2	69.0	60.1	199.88 149.91	on request

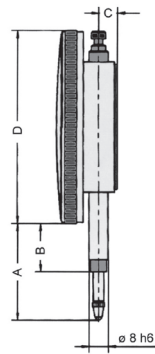





ART ^{Nº}	length of bridge mm	for shafts-ø mm	width mm	€
240520	66 x 16	10 – 100	16	130.42 97.82

Small Dial Indicator

workshop grade

- standard quality
- e.g. for workshop use
- metal housing, matt chrome finish
- spindle and stem stainless and hardened
- with turnable scale by outer ring, for easy zero setting

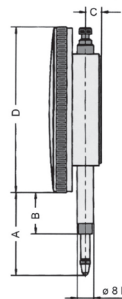





ART N°	 mm	 mm	 mm	A mm	B mm	C mm	D-ø mm	€	CC
241002	0 – 5	0.01	0.5	28	14	8.2	45	42.21 31.66	on request

Dial Indicator

workshop grade

- standard quality
- e.g. for workshop use
- solid brass housing, matt chrome finish, adjustable tolerance fingers
- spindle and stem stainless steel and hardened
- with turnable scale by outer ring, for easy zero setting



ART N°	 mm	 mm	 mm	A mm	B mm	C mm	D-ø mm	€	CC
241103	0 – 1	0.001	0.2	33.5	22.0	8.0	57	73.11 54.83	on request

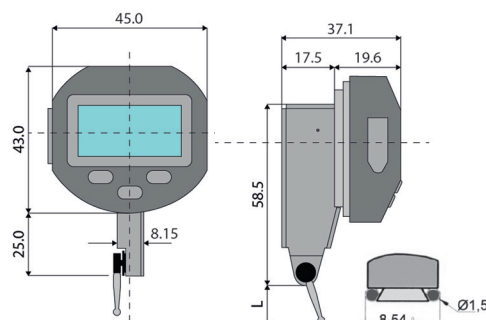
Electr. Digital Test Indicator • IP54

NEW

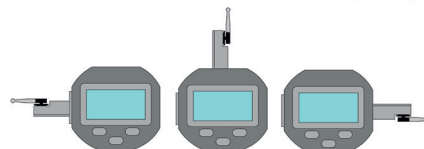
- with data transfer via cable
- mechanical parts in stainless steel, hardened
- aluminium housing, front panel made of polyamide
- LCD display with clear reading, digit height 10 mm, more than 360° moveable
- autom. power off
- mm/inch switchable, selection of measuring direction
- housing with 3 dovetail guides
- incl. 1x 3 V battery (type CR2032, art. no.: 90112)
- incl. operation manual





Option

- data transfer via cable, art. no.: 3420195: 3420195



with digital and graph bar



ART N°	 mm	 mm / inch	Measuring range mm / inch	 mm	 max. mm	Measuring force N	L mm	€	CC
240682	0 – 1.6	0.001 / 0.0001	±0.8 / ±0.03	0.001	0.01	0.07 ± 15 %	13.0	165.66 124.25	on request

Dial Gauges and Stands

Universal Magnetic Measuring Stand

NEW

- for professional 3-point clamping with just one twist grip
- stable clamping with ergonomically shaped handle
- ball joint in the foot for flexible positioning, with clamping lever

- stable frame with black anodized surface
- with fine adjustment by knurled screw
- dial indicator holder for clamping shanks \varnothing 6 mm, \varnothing 8 mm and dovetail
- tension foot with plastic on / off lever
- tension foot with 4 strong permanent magnetic points, black painted



tension foot with 4 strong permanent magnetic points



tension foot with ball joint



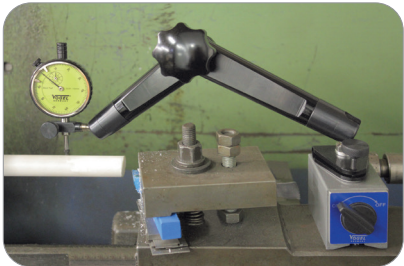
ART N°	total height mm	colum- \varnothing x L mm	cross arm- \varnothing x L mm	thread mm	tension foot mm	magnetic force without a protective cap ~ N	€
250120	360	13.5/25 x 135	25/10 x 115	M8	110 x 70 x 42	320	219.21 164.41

Magnetic Measuring Stand

NEW

- triple-jointed arm with central mechanical clamping
- ball joints allow a fast and safe positioning
- all joints are clamped with just one twist grip
- with finde adjustment on the magnetic base

- stable frame with black anodized surface
- dial indicator holder for clamping shanks \varnothing 6 mm, \varnothing 8 mm and dovetail
- magnetic base with plastic on / off switch
- hammer blow lacquered magnetic base, with prism base



fine adjustment on the magnetic base



ART N°	total height ~ mm	colum- \varnothing x h mm	cross arm- \varnothing x h mm	thread mm	magnetic block mm	magnetic power ~ N	€
250110	350	27/31.5 x 145	24/33 x 150	M8	65 x 50 x 55	800	135.30 101.48

Measuring Stand Column

- with mechanical clamping
- with fine adjustment



ART N°	colum \varnothing x length mm	thread mm	suitable for art. no.	material	shank- \varnothing mm	€
250308	370	M10	250301 + 250305	aluminium	8 + dovetail	107.25 80.44

Measuring Stand Column

- flexible tubular steel sections
- with wire-rope tension



ART No	column ø x length mm	thread mm	suitable for art. no.	material	shank-ø mm	€
250508	16 x 340	M8	251501	steel, burnished	6 + 8	28.17 21.13

Universal Magnetic Measuring Stands

NEW

- for professional 3-point clamping with just one twist grip
- stable clamping with ergonomically shaped handle
- with finde adjustment on the magnetic base

- stable frame with black anodized surface
- dial indicator holder for clamping shanks ø 6 mm, ø 8mm and dovetail
- Magnetic base with plastic on / off switch
- hammer blow lacquered magnetic base, with prism base



object clamp



stable clamping
with rotary handle



fine adjustment at
the magnetic base

ART No 250101



ART No 250102



ART No	total height mm	column-ø x h mm	cross arm-ø x h mm	thread mm	magnetic block mm	magnetic power ~ N	€
250101	280	10 x 120	8 x 110	M5	40 x 30 x 35	400	61.47 46.10
250102	450	12 x 200	10 x 190	M8	65 x 50 x 55	800	67.26 50.45

Mini-Magnetic Measuring Stands

NEW

- all joints are clamped with just one twist grip
- swivel joint allow quick and safe positioning

- scratch-resistant, black anodized surface
- dial gauge holder for clamping shanks ø 8 mm
- 360° swivelling
- magnet with fine ground prism (only at art. no.: 250506)

ART No 250506



side view

bottom side with
magnetic prism

ART No 250505



bottom side with
2 magnetic
points



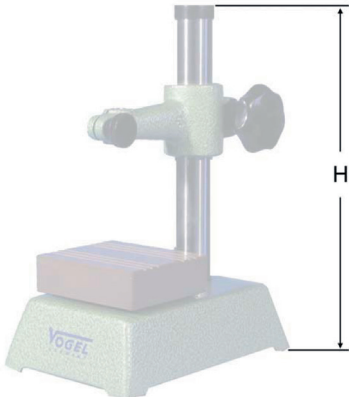
ART No	total height ~ mm	thread mm	magnetic block mm	magnetic power ~ N	Magnethaftkraft ~ N	€
250505	46	M 8	73 x 37 x 12	180	81,54	28.61 21.46
250506	59	M 8	73 x 37 x 26	180	166,11	45.74 34.31

Dial Gauges and Stands


Precision Measuring Table

DIN 876

- with ceramic measuring table
- for the measuring room and calibration laboratory
- Measuring surface made of dense ceramic, with dust grooves, finely lapped
- stainless column, finely polished
- with rigid cross arm
- dial indicator shank \varnothing 8 mm



DIN


ART N°	 table	measuring height mm	arm length mm	total height (H) mm	column- \varnothing mm	€
258050	70 x 60 x 20	100	49	195	22	411.00 308.25

Measuring Table

- without dial indicator
- flat measuring table, steel, hardened and ground surface
- chromed column, rigid measuring arm, with fine adjustment
- dial indicator shank \varnothing 8 mm



NORM


ART N°	 table	total height mm	description of measuring table	arm length mm	column- \varnothing mm	column- \varnothing mm	€
258011	\varnothing 60	125	flat	75	25	0.008	105.30 78.98

Divider
DIN 6486

- steel, polished
- square legs, with hardened tips
- with rivet



DIN


ART N ^o Divider		€
302404	200	8.51 6.38

Spring Circle
DIN 6486

- steel, polished
- square legs, with hardened tips
- with quick release nut for quick movement
- with fine adjustment



DIN

ART N ^o		€
302419	75	4.86 3.65

Universal Marking Gauge

- with contact-roll
- carbide scriber, exchangeable

- stainless steel, hardened
- laser engraved scale, reading parts in matt chrome finish
- 2nd scriber as spare part included

Option

- carbide scriber (art. no.: 335072)



mm/inch

INOX







ART N ^o			€
335071	400 / 16	0.1	47.08 35.31




Scribing Devices

Steel Scriber

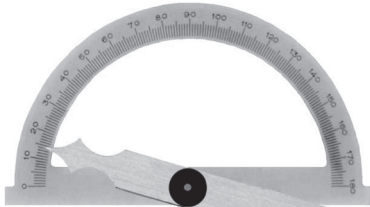
- with tungsten carbide tip




ART N°	 mm	shaft-ø mm	version	€
334608	150	6	hexagonal bar. galvanized. with clip	2.0+ 1.51

Protractor

- with fixing screw
- for standard mechanical engineering
- special steel, in chromed finish
- laser engraved scale



ART N°	length of blade mm	arc-ø mm		€	CC
322511	120	80	0 – 180	16.38 12.29	on request

Protractors (Skew Measurer)

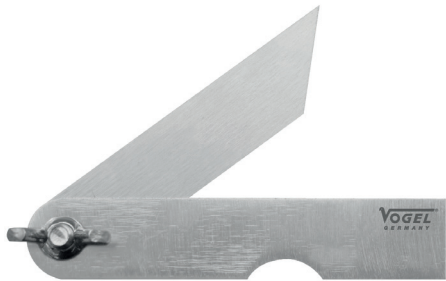
- for standard mechanical engineering
- special steel, in chromed finish
- laser engraved scale
- with adjustable blade, with fixing screw






ART N°	length of blades mm	arc-ø mm	angle graduation	€
320571	150	100	10 – 170°	31.22 23.42
320572	300	150	10 – 170°	37.49 28.12

Bevel Squares

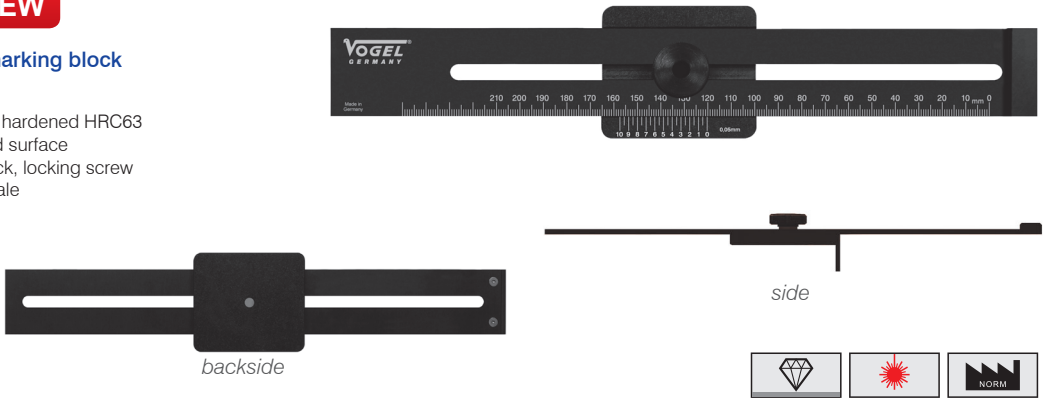
- rugged construction
- for metalworker, fitters, locksmith, etc.
- special steel, galvanized finish
- with galvanized fixing screw for locking the steel blade



ART N°	 mm	 blade mm	 mm	€
312573	200	20 x 2.5	20 x 8.0	9.29 6.90
312577	500	20 x 2.0	20 x 8.0	26.92 20.19

Marking Gauges **NEW**

- with flat sliding ruler and marking block
- with fitting screw
- made of Dur-Aluminium, surface hardened HRC63
- scratch-resistant, black anodized surface
- with hardened steel marking block, locking screw
- laser engraved, clear reading scale
- marking block 44 mm high



ART N°	mm	mm		€
336260	200	0.05	300 x 60 x 44	29.82 22.37
336261	250	0.05	350 x 60 x 44	32.40 24.30
336262	300	0.05	400 x 60 x 44	33.24 24.91

Electr. Digital Marking Gauge and Protractor • IP40

- with flat sliding ruler and hardened marking block
- digital angle setting and digital length measuring
- dust proof electronic unit
- made of Dur-Aluminium, hardened with HRC63
- scratch-resistant, black anodized surface
- laser engraved clear reading scale
- with hardened marking block, with fixing screws
- large LCD display with clear reading, 8 mm digit height
- reading 180° reversible, zero setting at any position
- On/Off button, autom. power off, HOLD function
- mm/inch, switchable
- incl. 3 V battery (type CR2032, art. no.: 90112), with operation manual



ART N°	mm / Inch	length mm / Inch	angle °		€
336330	300 / 12	0.01 / 0.0005	0 – 360° x 0.05°	400 x 82 x 23	40.00 20.00



Our new slogan:
Measuring Solutions

- ✓ more appropriate
- ✓ more meaningful
- ✓ more contemporary

This stands for the further development of the brand Vogel Germany to even more customer-oriented solutions in the measurement technology, development of the range, consulting, training, etc.

Scribing Devices

Precision Workshop Squares

DIN 875/2

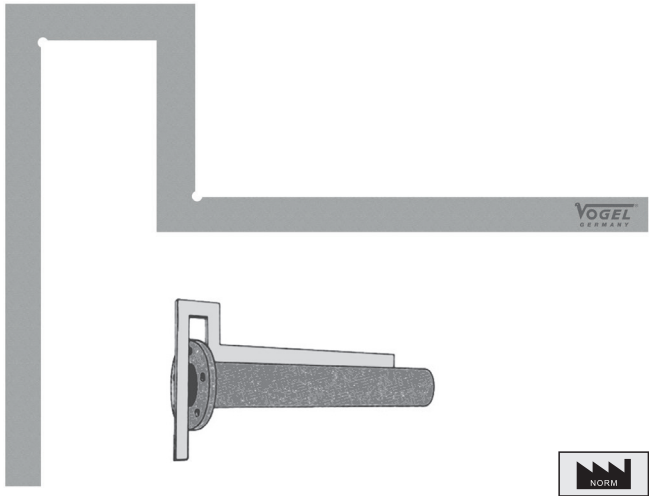
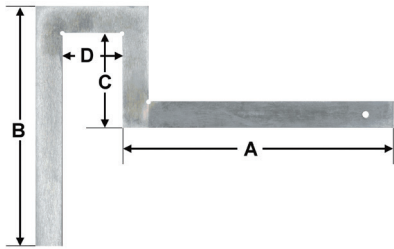
- for standard machinery
- stainless steel
- fine ground
- flat or with back



ART No flat	€	mm	ART No with back	€	mm	CC
310076	57.35 43.01	300 x 175	310176	63.92 47.94	300 x 175	on request

Flange Square

- for fitters and pipeline constructions
- to adjust the flange
- steel, galvanized finish



ART No	mm	steel blade mm	€
312513	A x B x C x D 500 x 500 x 125 x 70	30 x 6	38.73 29.05



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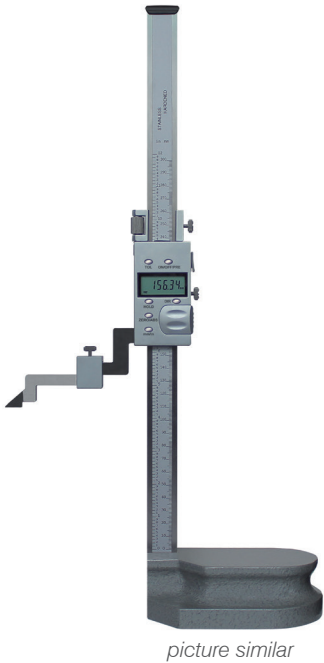
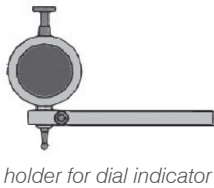
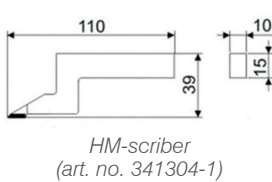
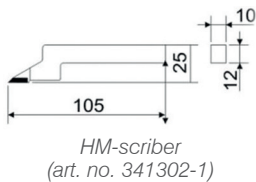
Electr. Digital Height and Marking Gauges

NEW

- with „ABSOLUTE“ system
- with data output, top-model
- stainless steel guideway, with fine adjustment
- LCD display with clear reading
- On/Off switch, zero-setting at any position
- reading switchable mm/inch
- tolerance setting, hold function
- presenting of measured values (\pm pre-set), measuring direction switchable
- carbide tipped drawing point, interchangeable
- base made of stable cast iron, grey lacquered
- incl. 1x 3 V battery (type CR 2032, art. no.: 90112), with operating manual
- other sizes available on request, 300, 500, 800, 1500 and 2000 mm

Options

- data transfer via cable, art. no. 209001
- HM-scriber
0 – 600 mm (art. no.: 341302-1)
0 – 1000 mm (art. no.: 341304-1)
- holder for dial indicator
0 – 600 mm (art. no.: 341302-3)
0 – 1000 mm (art. no.: 341304-3)



ART N°	mm / inch	mm / inch	max. mm	mm	mm guide bar	mm size of base	€	CC
341303	600 / 24	0.02	0.05	0.02	31 x 10.5	180 x 120 x 54	434.40 325.80	on request
341305	1000 / 40	0.02	0.07	0.02	50 x 16	250 x 150 x 73	1.047.90 785.93	on request

Electr. Digital Height and Marking Gauge

- with data output RS232 C
- stainless steel guideway, with fine adjustment
- LCD display with clear reading
- On/Off switch, zero-setting at any position
- reading switchable mm/inch
- Data-Hold, Preset function
- max. slidingspeed 1.5 m/sec.
- carbide tipped steel scriber, exchangeable
- at zero-position the scriber coincides exactly with the base
- sturdy base, cast iron made, lacquered
- incl. 1x 1.5 V battery (type LR44, art. no.: 90213), with operation manual



ART N°	mm / inch	mm / inch	max. mm	mm guide bar	mm size of base	€	CC
341109	1000 / 40	0.01 / 0.0005	0.07	50 x 17	250 x 150 x 73	1.160.00 870.00	on request

Scribing Devices

Carbide Tipped Steel Scribes

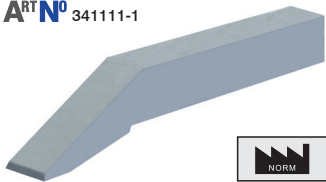
- for Height and Marking Gauge


- art. no. 341110-1 suitable for art. no. 341110
- art. no. 341111-1 suitable for art. no. 341116+341119

ART N° 341110-1



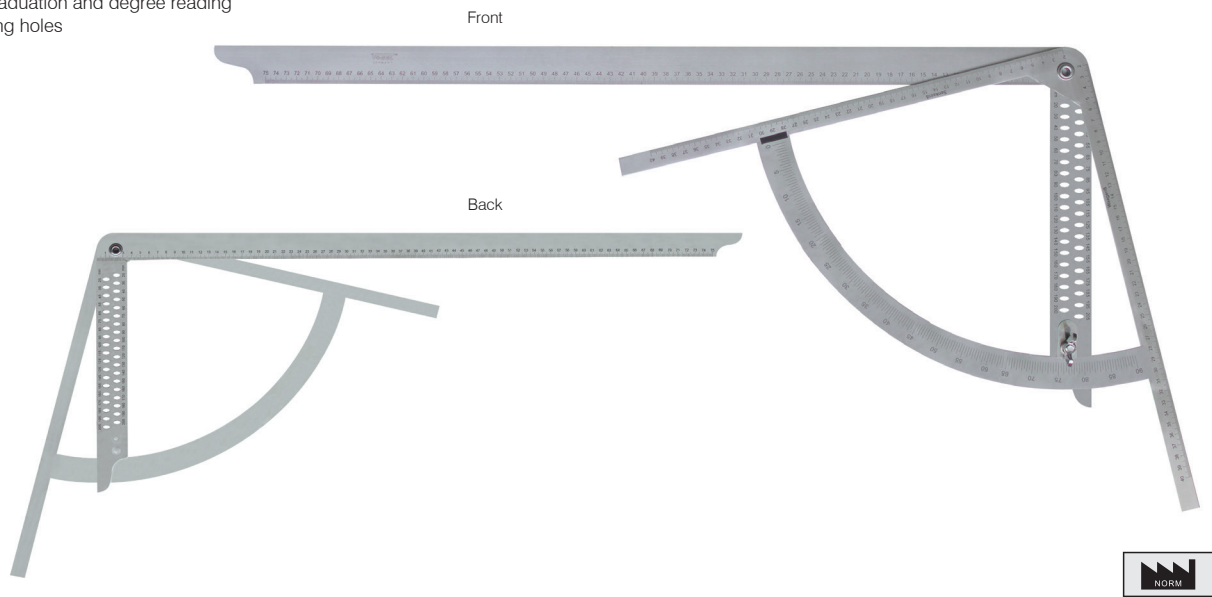
ART N° 341111-1






ART N°	 mm	€
341110-1	60 x 10 x 9	26.06 19.55
341111-1	100 x 12.2 x 11	16.90 12.68

Carpenter's Square „Alpha“ Classic

- stainless steel
- with fixing screw
- with cm-graduation and degree reading
- with marking holes

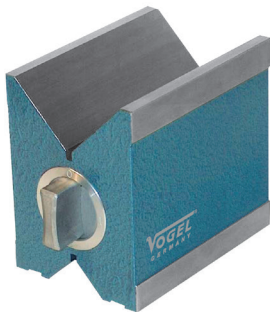





ART N°	 mm	 blade mm	 mm	€
521230	200	35 x 1.5	430 x 795	106.92 80.19

Magnetic Measuring and Clamping V-Block

- especially engineered for toolmakers etc.

- made of hardened steel
- with V-cut 90°, finely ground
- with On/Off-rotary switch made of aluminium
- magnetic base with finely ground prism
- plane, parallel and squared machined



ART N°	 mm	for shaft-ø mm	parallelism tolerance ± mm	 prism N	 surface N	€
330113	100 x 70 x 96	ø 6 – 72	0,004	650	1800	1.366.00 1.024.50

V-Block Pair with Clamps

- for clamping cylindrical pieces and marking purposes, etc.

- special steel, hardened or stainless steel hardened
- 2 different deep 90° V-cuts, surfaces finely ground
- front faces angular ground in regard to base area, adjusted in pairs

Option

- wooden boxes available, by extra charge



ART N° steel pair		clamping range for ø mm	 ± mm / 100 mm	€
333042	75 x 55 x 55	5 – 50	0.01	82.17 61.63

Precision Knife Straight Edges

DIN 874/00

- for testing according to the light-gap method

- stainless steel, anti-glare matt chromed, hardened and fine ground
- bevelled edges finely ground and lapped, with insulation handle



DIN

ART N°	 mm	€	CC
310325	150	18.51 13.88	on request
310328	300	47.92 35.94	on request

Wooden box for series 231351 – 231358 and 231371 – 231374

- Inner padding made of soft foam



ART N°	 mm	€
2399504	75 – 100	20.15 15.11

Explore our
Website.

www.vogel-germany.de



VOGEL
GERMANY
Measuring Solutions

Any questions?

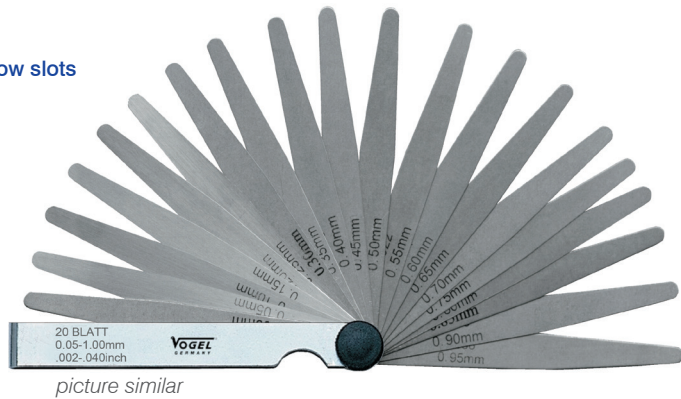
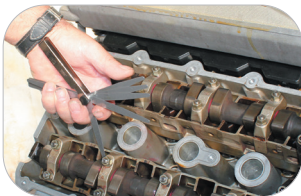
We are pleased to advise.

Test Equipment

Feeler Gauge Sets

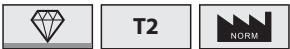
tolerance acc. to T2

- for standard purposes, like thickness measuring between narrow slots and for automotive- and engine industry
- hardened spring steel, conical shaped blades, 100 mm length
- nickel plated case with lock nut
- thickness tolerance in relation to the metric sizes
- art. no. 412002: sizes in mm and inch on each blade
- art. no. 411003-M: sizes in mm on each blade



picture similar

Other sets are available on request!

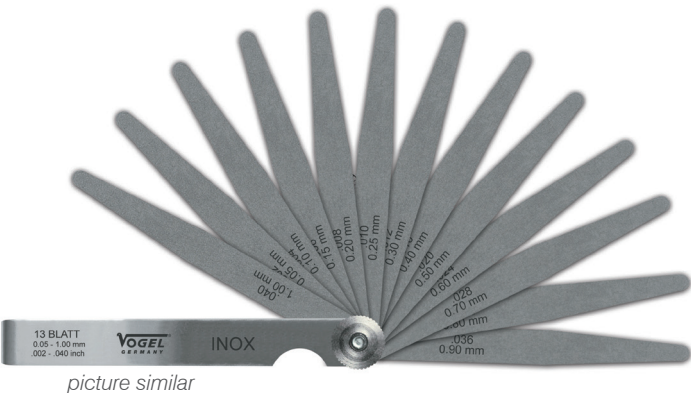


ART N°	quantity of blades	mm / inch	compilation	€	CC
412002	10	0.038 – 0.63 .0015 – .025	0.038 / 0.05 / 0.08 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.38 / 0.63 mm .0015 / .002 / .003 / .004 / .006 / .008 / .010 / .012 / .015 / .025 inch	2-28 1.71	on request
411003-M	10	0.05 – 0.80	0.05 / 0.10 / 0.15 / 0.20 / 0.30 / 0.40 / 0.50 / 0.60 / 0.70 / 0.80 mm	2-15 1.61	on request

Feeler Gauge Set, stainless steel

tolerance acc. to T2

- stainless steel made
- blades made from stainless steel, hard rolled out
- conical shaped blades, 100 mm length
- nickel plated case with lock nut
- sizes in mm and inch on each blade
- thickness tolerance in relation to the metric sizes



picture similar



ART N°	quantity of blades	mm / inch	compilation	€	CC
413107	20	0.05 – 1.00 .002 – .040	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.35 / 0.40 / 0.45 / 0.50 / 0.55 / 0.60 / 0.65 / 0.70 / 0.75 / 0.80 / 0.85 / 0.90 / 0.95 / 1.00 mm .002 / .004 / .006 / .008 / .010 / .012 / .014 / .016 / .018 / .020 / .022 / .024 / .026 / .028 / .030 / .032 / .034 / .036 / .038 / .040 inch	8-66 6.50	on request

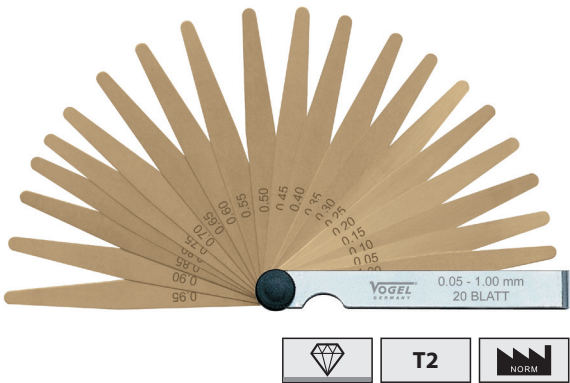
PERMISSIBLE TOLERANCES FOR SPRING BAND STEEL, HARDENED


nominal thickness mm	T2 (A2) +/- mm	T3 (A3) +/- mm	nominal thickness mm	T2 (A2) +/- mm	T3 (A3) +/- mm	nominal thickness mm	T2 (A2) +/- mm	T3 (A3) +/- mm
0.03 / 0.04 / 0.05 / 0.06	0.004	0.003	0.30	0.009	0.007	1.10	0.024	0.017
0.07 / 0.08 / 0.09 / 0.10	0.005	0.004	0.35	0.011	0.007	1.20	0.024	0.018
0.11 / 0.12 / 0.13	0.005	—	0.40 / 0.45	0.012	0.008	1.30	0.028	0.019
0.14 / 0.15	0.006	0.005	0.50 / 0.55	0.014	0.009	1.40	0.028	0.021
0.16 / 0.18	0.007	—	0.60 / 0.65	0.014	0.009	1.50	0.028	0.022
0.20	0.008	0.006	0.70 / 0.75	0.017	0.012	1.60	0.033	0.023
0.22 / 0.24	0.008	—	0.80 / 0.85	0.019	0.013	1.70	0.033	0.024
0.25	0.009	0.006	0.90 / 0.95	0.022	0.014	1.80	0.033	0.026
0.28	0.009	—	1.00	0.024	0.016	1.90	0.035	0.027
						2.00	0.035	0.028

Feeler Gauge Set, made from brass

tolerance acc. to T2

- blades made from brass
- conical shaped blades, 100 mm length
- brass case with lock nut
- sizes in mm on each blade

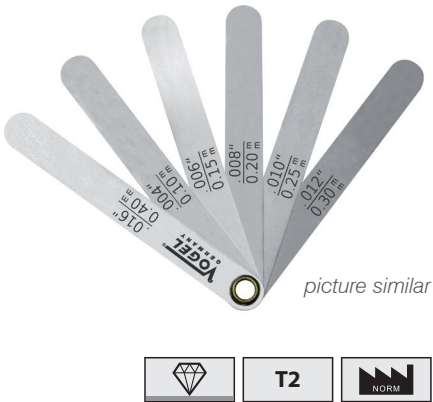



ART N°	quantity of blades	 mm	compilation	€	CC
414007	20	0.05 – 1.00	0.05 / 0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.35 / 0.40 / 0.45 / 0.50 / 0.55 / 0.60 / 0.65 / 0.70 / 0.75 / 0.80 / 0.85 / 0.90 / 0.95 / 1.00 mm	17.09 12.82	on request

Valve Regulation Gauge Set

tolerance acc. to T2

- for adjusting of valves
- blades made from hardened spring steel
- cylindrical shaped blades, 75 mm length, 9 mm width
- fixed by a brass rivet
- sizes in mm and inch on each blade
- delivery bulk packed or in foil
- tolerance in relation to the metric sizes




ART N° singly packed	quantity of blades	 mm / inch	compilation	€
415107	7	0.10 – 0.50 .004 – .020	0.10 / 0.15 / 0.20 / 0.25 / 0.30 / 0.40 / 0.50 mm .004 / .006 / .008 / .010 / .012 / .016 / .020 inch	1.47 1.10

Screw Pitch Gauges

- for internal and external measurements of threads
- fine cutted threads




ART N°	quantity of blades	 mm / inch	thread type	graduation	€
471010	20	0.40 – 7.00 mm	metr. 60° SI	7.0 / 6.5 / 6.0 / 5.5 / 5.0 / 4.5 / 4.0 / 3.5 / 3.0 / 2.5 2.0 / 1.75 / 1.5 / 1.25 / 1.0 / 0.8 / 0.75 / 0.7 / 0.5 / 0.4	4.79 3.59
471013	48	0.40 – 7.0 / 4 – 62	whitw. / metr. SI	combined 19 / 20 / 22 / 24 / 25 / 26 / 28 / 30 / 32 / 36 / 40 / 48 / 60 / 62 2.0 / 1.75 / 1.5 / 1.25 / 1.0 / 0.8 / 0.75 / 0.7 / 0.5 / 0.4	6.14 4.61

Spark Plug Gauge

- suitable for craftsmen and industry
- with hardened steel pins, in plastic holders mounted
- with PL lamellae
- incl. bender



ART N°	quantity of pins	 mm	graduation mm		€
472701	8	0.40 – 1.00 mm	0.40 / 0.50 / 0.60 / 0.70	0.75 / 0.80 / 0.90 / 1.0	6.05 4.54

Hole Gauge

- flat version
- rear side with rounded edges
- special steel, hardened and fine ground
- laser engraved graduation



backside



ART N°	 mm	 mm		€
472320	1.0 – 15.0	0.1	178 x 12 x 2	5.36 4.02

Setting Ring Gauge, acc. to DIN 2250 C, DIN ISO 286/1

- special steel, hardened, finely ground and lapped



Other tolerances available on request!



ART N° setting ring	ø mm	€	CC
370770-0020	2.0	133.42 100.07	on request

Limit Thread Plug Gauge Set
Limit Plug Gauge Set

- acc. to DIN tolerances
- special steel, hardened, fine ground



ART N°	plug gauge set	GO	„No-Go“	contents mm	€	CC
390801	✓	✓	✓	M 3 / M 4 / M 5 / M 6 / M 8 / M 10 / M 12	145.46 109.10	on request

Parallel Gauge Block Set
DIN EN ISO 3650

- for standard use in workshop area and at the machine
- made of specially alloyed, particularly cured and relaxed special steel
- calibration certificate available by extra charge



ART N°	tolerance class	quantity per set	pcs.	nominal size mm	steps mm	€	CC
351023	2	87	9 49 19 10	1.001 – 1.009 1.01 – 1.49 0.5 – 9.5 10 – 100	0.001 0.01 0.5 10.0	277.28 207.96	on request

Rectangular Gauge Block Set
DIN EN ISO 3650

- suitable for use in measurement and test room
- made of specially alloyed, particularly cured and relaxed special steel
- calibration certificate available by extra charge



ART N°	tolerance class	quantity per set	nominal size mm	€	CC
350184	1	5	600 / 700 / 800 / 900 / 1000	3.055.62 2.291.72	on request

Precision Parallel Support Sets

- 14 pairs of parallels
- special steel, carefully hardened and strain-removed, HRC 58 – 60
- longitudinal surfaces are plane parallel machined and extra fine adjusted in pairs

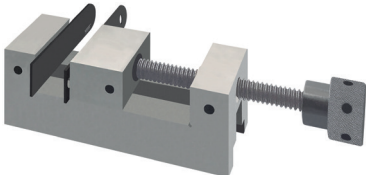


ART N°	sizes mm		accuracy for height ± mm	€
260600	14 / 16 / 18 / 20 / 22 / 24 / 26 / 28 / 30 / 32 / 35 / 40 / 45 / 50	150 x 10 ± 0.05	0.01	345.68 259.26

Precision Parallel Support Sets, magnetic

NEW

- hardened (~60 HRC), black anodized
- with magnetic inserts,
reduce the clamping time by up to ~ 10
- fine ground in pair, as set of each 5 pairs
- scratch-resistant, black anodized surface



Application example



ART N°	sizes mm	height tolerance ± mm	width tolerance ± mm		€
260621	15 / 30 / 35 / 37 / 39	0.005	0.01	125 x 2.5	107.38 80.54



Precision Inspection Frame Spirit Level

DIN 877

- for levelling and adjusting of horizontal
and vertical surfaces and cylinders
- housing made of special cast iron
- with prism and flat surface, fine ground
- adjustable main vial and one cross vial
- with insulation handles



DIN

ART N° sensitivity 0.02 mm/m		€	
360317	300 x 300 x 40	1.718,22 1.288,67	on request

BARCOL Impressor, Hardness Tester

- portable device, one hand use, for fast and location independent hardness testing
- with Bluetooth® data output and with software
- Applications:
It is mainly used in aluminium processing industry, testing pure aluminium, soft aluminium, thick aluminium alloy, aluminium strip, aluminium rod, aluminium castings, aluminium forgings and aluminium alloy products. Also, it can be used for glass steel industry.
The device is suitable for testing large and extra thick workpieces.

- rugged ABS plastic housing, with key pad, with backlight
- LCD display with clear reading, digit height 9 mm
- LED signals for the hardness scales HW, HB HV, HRB, HRE, HRF, HRH
- with function of calculation the average value, can calculate the average value of 29 sets of data at most
- with the max. hold function, recording the max. hardness value during measurements
- with good, convenient calibration and high accuracy detection
- wide test range, can test from very soft pure aluminium to a particularly hard aluminium alloy, effective test range equivalent to the Brinell Hardness 25 ~ 150 HB
- ON/OFF-button, autom. power off, average, max value, menu function
- operation temperature -0 °C ~ +50 °C, rel. humidity 20 – 80 %RH
- incl. 2x 1.5 V battery (type AAA, art. no.: 90002)
- incl. 2 test blocks, 2 pins, pin length calibration block, screw driver, spanner, installation software for data transmitting and operation manual



ART N°								€
650270	0 – 100	0.1	81 – 88 ± 1	42 – 48 ± 2	81 – 88 ± 1.5	42 – 48 ± 2.5	170 x 60 x 70	1.180.17 885.13

Universal Digital Rebound Hardness Tester

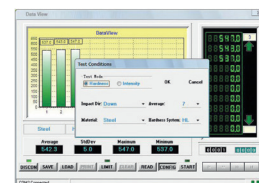
- portable device for quick and location-independent hardness tests, based on the Leeb principle
- with external impact device type „D“ (standard)
- with USB data output and Dataview software

- rugged, anodized aluminium housing, with key pad
- multifunction display with clear reading, with switchable backlight
- display functions: hardness scales, hardness value, date, testing time, battery indicator, impact direction, average value, recognition of impact device, memory capacity for 600 groups
- suitable for most metallic materials, measuring in any position, vertical, horizontal and upside down
- ON/OFF switch or autom. power off
- incl. Adjusting limit function, autom. alarm function when exceeding the limit value
- min. workpiece weight 2 kg on solid support
- direct display of hardness scale in HL, with autom. conversion in HRB, HRC, HV, HB, HS
- and tensile strength (U.T.S.)
- min. workpiece radius (concave/convex) Rmin = 30 mm (< 30 mm with support ring, incl. in the set)
- operation temperature -20 °C ~ +60 °C, rel. humidity 20 – 90 %RH
- incl. 2x 1.5 V Battery (type AA, art. no.: 90003)
- incl. test block type „D“ (2 parts) and impact device type „D“, more impact devices are available as accessories
- with brush, USB data cable, screw driver, data view software, workshop calibration certificate and operation manual



Additional functions:

- anti-slip soft shell housing
- integrated thermal printer for direct printing of all values and histogram
- with rechargeable Li-ion battery and charger 100 – 240 V/AC



ART N°	at least workpiece thickness mm	max. hardness of workpiece HLD			€	CC
651608	impact device type D/DC/DLD/D+15 = 5 mm impact device type C = 1 mm impact device type G = 10 mm	960	±6	230 x 86 x 46	1.239.54 929.63	inclusive

Measuring Instruments

Shore Hardness Tester „Durometer“ • analog model

- portable device for measuring the hardness for elastomers and plastics
- Shore: rubber, elastomers, neoprene rubber, silicon, vinyl, soft plastics, leather, felt and similar materials
- rugged metal housing, compact design
- with drag pointer, with needle protection
- 2 different models of Shores
- measuring needle made of special steel, needle guidance is linear mounted
- incl. test block, with operation manual

Option

- art. no. 659210: Prüf- and Test stand



Shore type A



with needle protection



DIN ASTM

ART N°	max. spring load N	mm		needle ° / mm	meas.-face mm	indenter type	mm	€
650720	8.064	0 – 100 HA	1.0	35° / ø 0.9	ø 18	blunt taper	100 x 64 x 35	490.68 135.00

Ultrasonic Thickness Gauge

- designed to measure the thickness of ferrous (Fe) or non-ferrous materials (NFe)
- dedicated for many materials, such as steel, cast iron, grey cast iron, nodular cast iron, aluminium, copper, bronze, zinc, glass (quarz), ceramics, composites, epoxies, homogenously plastics and other ultrasonic wave well conductive materials
- rugged handheld measurement device, for quick and flexible wall thickness measurements
- suitable for most metallic and non-metallic ultrasonic wave can go through, application areas are e.g. surface technology, automotive industry, storage tank, pressure boiler, shipbuilding, chemical- and petrol plants, power stations, aluminium industry, machine engineering, bridge construction, etc.
- for wall thickness checking of pressure tanks, vessels, oil tanks, chemical instruments and many others
- operates in any position: horizontal, vertical or upside down

- robust housing made of polyamide, with soft keypad
- 4-digit LCD display, with backlight, digit height 9 mm, with integrated test block for fast calibration
- autom. calibration function, reading in mm/inch
- On/Off key and autom. power off function, with „low-battery“ indicator
- selectable sound velocity 1000 – 9999 m/s
- internal data memory for 40 measurements
- incl. exchangeable 5 MHz transducer, ø 10 mm, for standard purposes
- operation temperature 0 °C ~ +40 °C, humidity 20 % – 90 %RH
- incl. 2x battery 1.5 V (type AA, art. no.: 90003), with operation manual, wrist strap and couplant



UNIT CE

ART N°	mm	mm / inch		mm	€
480120	0,01	0.7 – 300.00 / 0.36 – 11.80	0.5 % + 0.1	124 x 67 x 30	572.10 429.08

Electr. Digital Moisture Meter

- for measurements of wood moisture, paper, building materials, etc.
- with 4 contact pins

- rugged, polyamide housing material
- large LCD display with clear reading
- On/Off button, data hold button
- autom. power off, battery indicator
- setting the upper limit of the moisture ratio
- storage temperature -10 °C ~ +60 °C, operation temperature 0 °C ~ +40 °C, rel. humidity < 70 %RH
- incl. 1x 9 V battery (type 6LR61, art. no.: 90006), with operation manual



CE

ART N°	wood			mm	€
641006	5 % – 40 %	1.0 %	±1.0 % Rh+0.5	129 x 63 x 32	36.73 27.55

Electr. Digital Multimeter • IP44

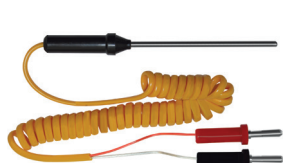
- with solar charger on top of instrument
very useful instrument, especially in the field of electrical engineering
- housing is made of tough, damage-resistant ABS-plastic, dustproof and spray water resistant
- large LCD display clear reading, digit height 19 mm
- current DC and AC up to 20 A
- incl. thermo probe for temperature measurements
- diode test, transistor test function, conductivity test, with acoustical signal
- with battery test function
- with frequency function
- with decimal digits change
- incl. 2x measuring lines
- incl. rechargeable accu and charger cable, with operation manual



solar charger



with stand



temperature probe



measurement probes



USB cable for charging




power plug



alligator clips



ART N°	 AC	 DC	overload category	resistance	 mm	€
640384	0 – 750 V	0 – 1000 V	CAT III / 600 V CAT IV / 1000 V	60 MΩ	167 x 90 x 50	94.32 70.74






Infrared Laser Thermometers

- pistol-sized, with K-type temperature probe and shiftable laser pointer
- for quick measuring of temperatures, by temperature probe or contactless
- the devices fulfill the strict requirements of the european national guidelines
- rugged ABS plastic housing
- large LCD display with clear reading, with backlight
- temperature reading in °C / °F, with shiftable laser pointer
- autom. power off after ~ 20 sec., response time < 0.5 sec., laser protection class II
- data hold function for short memory time of the measuring value, Min/Max-function
- average value selectable, with battery indicator
- storage temperature -10 °C ~ +60 °C, operation temperature 0 °C ~ +50 °C
- relative humidity 10 – 90 %RH, emissivity adjustable
- incl. 1x 9 V battery (type 6LR61, art. no.: 90006), with operation manual

Option

- For art. no. 640314:
spare probe (art. no. 649303)

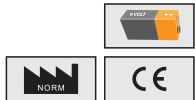


ART N°	 °C	 °C	 °C	 °C	measuring optics	 mm	€
640314	-30 ~ +550	0.1	±4.0 / ±4 %	±1.0	12:1	170 x 135 x 50	50.09 37.57
640317-2	-50 ~ +1300	0.1	±2.0 / ±2 %	±1.0	16:1	170 x 135 x 50	131.85 98.89

Measuring Instruments

Electr. Digital Moisture Meter NEW

- for measurement of building materials, concrete, wood, etc.
- robust, ABS plastic housing
- large LCD display, 3 digits, with clear reading, digit height 15 mm
- On / Off key, data hold function, min / max key, measurement in digits
- depth of penetration about 20 – 40 mm
- low battery indication, backlight switchable
- storage temperature 0 °C ~ 50 °C, rel. Humidity < 80 %RH
- incl. 1x 9 V battery (type 6LR61, art. no.: 90006), with operation manual



ART N°	capacity device digits	digit	max. digit	mm	€
641009	0 – 100	1	± 1	180 x 45 x 35	164.31 123.23

Electr. Digital Sound Level Meter

- for sound and noise measurements acc. to the international directives whether in industry, craft, or housekeeping
- useful device for air-conditioning, aviation industry, environmental technology
- with self-calibration

- rugged, polyamide housing material
- On/Off button, data memory for 4700 measurements, slow-/fast-button, clock- and calendar indicator
- with tripod mounting screw on the rear side, autom. power off
- large LCD display, 4-digit, with clear reading, battery indicator
- frequency range 31.5 Hz ~ 8.5 KHz, A/C frequency weighting select switch, AC/DC out put
- bar graph indicator with 50 dB scale, 1 dB step, with pre-select of min/max.-value
- microphone ½ inch, electret condenser-microphone, with detachable foam ball for outside measuring
- storage temperature -20 °C ~ +70 °C, operation temperature 0 °C ~ +45 °C, DC 6 V input port, AC analog output port
- incl. 4x 1.5 V battery (type AA, art. no.: 90003), USB data cable, software, with operation manual

Option

- charging by power supply possible (only when using rechargeable batteries)



foam ball removable



side

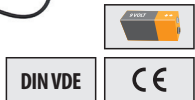


ART N°	level range dBA / dBC	dB	max. dB	linearity range dB	mm	€	CC
641106	40 – 80 / 50 – 100 / 60 – 110 / 80 – 130	0.1	± 1.5	50	220 x 80 x 35	89.15 66.86	inclusive

Electr. Digital Luxmeter

- utilising a silicon photo diode with filter behind a large diffusor that is connected to the device by cable ensures that the light intensity can be read in all positions without restriction

- rugged, polyamide housing material
- large LCD display, 3½ digit, with clear reading
- On/Off switch, data hold switch, 3-step measurement setting function
- max. reading value 1999, test rate 0.5 sec., temperature characteristic ± 0.1 % / °C
- storage temperature -20 °C ~ +70 °C, operation temperature 0 °C ~ +45 °C
- incl. 1x 9 V battery (type 6LR61, art. no.: 90006), with operation manual



ART N°	LUX	LUX	max. LUX	max. LUX	max. LUX	mm	€	CC
640342	1 – 100.000	1	± 4 %	± 5 % ± 10 Digits	± 2 %	130 x 72 x 30	50.69 38.02	on request

Electr. Digital Anemometer

- for many outdoor applications and for several industry purposes
- for to measure the wind speed in different units
- ideal device for heating- and ventilation technician, shipping industry, etc.
- with Beaufort scale display

- rugged, polyamide housing material
- with tripod mounting screw on the rear side
- large LCD display with clear reading and backlight
- wind speed unit selection: m/s; Ft/min; Knots; Km/h; Mph
- with max.-value and data hold button, average and current speed measuring, temperature reading in °C and °F, switchable
- storage temperature -20 °C ~ +70 °C, operation temperature -10 °C ~ +45 °C
- without Data output
- incl. 1x 9 V battery (type 6LR61, art. no.: 90006), with operation manual

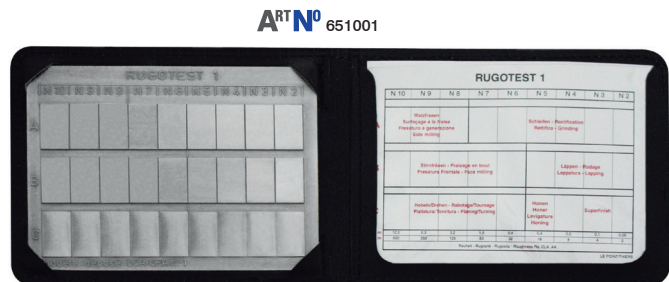
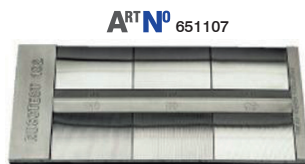


ART N°	wind speed m/s	speed m/s	temperature °C	wing speed max.	temperature °C	mm	€
641205	0,3 ~ 30	0.1	0.2°	±0.1 Digt	±2 °	165 x 85 x 38	44.48 33.36

Surface Finish Specimen „RUGOTEST“

- acc. to the norms NF E 05-501, ISO/R 468 und ISO 2632
- for testing surface roughness by sight and touch method (with finger-tip)
- available for all standards machining methods

- wear-resistant and made of stainless steel
- delivery with description



ART N°	machining method	quantity of plates	comparaison range Ra	ISO class	mm	€
651001	general (standard)	27	0.05 – 12.5	N2 - N10	120 x 90	330.51 247.88
651003	shot / grit (coarse + fine)	18	0.0125 – 25.0	N0 - N11	120 x 90	278.26 208.70
651102	turning	6	0.4 – 12.5	N5 - N10	110 x 50	174.38 130.79
651105	cylindrical grinding	8	0.025 – 3.2	N1 - N8	130 x 50	179.61 134.71
651107	spark erosion	6	0.4 – 12.5	N5 - N10	110 x 50	179.61 134.71

Infrared Thermometer

- Infrared measurement
- fast and contactless measurement

- 50 sets data memory
- Sound and light warning
- Large LCD display, with clear reading and backlighting
- auto. OFF < 30 sec., relative humidity: < 85 %
- incl. 1x 9 V battery (type 6LR61, art. no.: 90006), with users manual



Laser opening

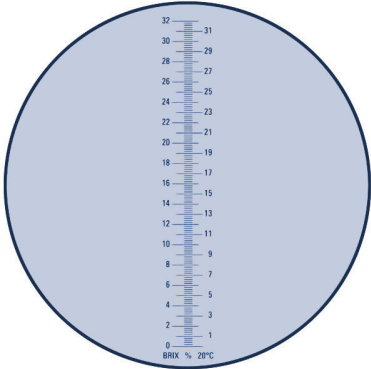


ART N°	°C	°C	Measuring time m/s	°C	mm	€	CC
640321	16 ~ 42	16 – 35	0.3 / 2	34.0 - 34.9 / +0.3, 35.0 - 42.0 / +0.2	136 x 83 x 39	20.00 15.00	inclusive

Measuring Instruments

Hand-Held Refractometer

- refractometers are optical precision instruments for measuring the optimal concentration of liquids
- rugged stainless steel housing with rubber handle
- with adjusting screw, folding cover, okular with rubber eye cup, quality optic
- incl. operation manual



scale reading



ART N°	application range				€
653200	lubricants, coolant liquids, fruit, juices, wines, etc.	0 – 32 % Brix	±0.20 %	170 x ø-29	33.78 25.34

Digital Refractometer **NEW**

- optical precision instrument for measuring the optimal concentration of liquids
- rugged housing with rubber
- autom. OFF in 1 minute
- with protective cap
- incl. Pipette, cleaning cloth and screwdriver for the battery compartment
- incl. 1.5 V battery (Typ AAA, art. no.: 90002), with operation manual



backside



ART N°	application range				€
653400	lubricants, coolant liquids, fruit, juices, wines, etc.	0 – 50 % Brix	±0.2 %	120 x 60 x 27	261.57 196.18

Inspection Tool Kit

- multipart set, especially for garages, mechanics, plumbers, etc.
- well assembled kit for professional users

- 5-piece set.
- stainless steel telescope bar with quick release, non-slip grip, 530 mm working length
- socket with ultra bright NICHIA LED-Licht, incl. 3x 1.5 V battery (type LR44, art. no.: 90213)
- socket with powerful magnet, 8lb, for to pick up and hold metal objects in hard to reach places
- inspection mirrors, with perfect reflection, no deterioration in the mirror mounted in a stainless steel frame, 360° rotatable, one mirror in ø 50 mm and one mirror rectangular 60 x 40 mm



Price / Performance:
good - excellent



ART N°	telescope bar	LED	mirror ø 50 mm	mirror 60 x 40 mm	magnet	€
474470	✓	✓	✓	✓	✓	58.-44 43.83

Professional Inspection Mirrors

- with telescope bar
- stainless steel telescope bar
- 360° rotatable and swivel joint
- insulated handle



ART N°	mm	mm	€
474453	~ 620	ø 50	16.-50 12.38
474454	~ 620	43 x 65	19.-49 14.62

Professional Inspection Mirrors

- with telescope bar
- stainless steel telescope bar
- 360° rotatable and swivel joint
- art. no. 474461: Mirror image with 5x magnification, with insulated handle
- art. no. 474464: Mirror image with 3x magnification, with clip



ART N°	mm	mm	€
474461	~ 510	ø 55	26.-94 20.21
474464	~ 470	ø 24	17.-12 12.84

Professional LED Illuminated Magnifiers

- with articulated arm
- adjustable at any position, with 360° rotation
- metal body, powder coated, insulation lamp housing made of rugged plastic
- with extra large and precision glass lens, 3 dpt.
- with table clamp, cable inside of the arm, overload category CAT I
- with extra bright LED's, mounted around the lens



ART No	voltage	magnification	field of view mm	total throat mm	€
600350	230	1.75 x	ø 127	900	86.53 64.90
600354	230	1.75 x	190 x 160	900	132.85 99.64

Electr. Digital Tire Pressure Gauge

- for quick and independent measuring of the tire pressure
- sturdy ABS plastic housing
- large LCD display with clear reading, digit height 9.5 mm
- LCD display with backlight
- lighted valve tip
- On/Off button, autom. shutdown
- units in PSI, Bar, Kg/cm², Kpa, switchable
- reading 0.1 PSI; 0.01 Bar; 0.01 Kg/cm²; 1 Kpa
- incl. 1x 3 V battery (type CR2032, art. no.: 90112), with operation manual





ART No	for cars	PSI	Bar / Kg/cm²	kPa	max. %	€
214460	✓	0 – 100	0 – 7 / 0 – 7	0 – 700	1 %	11.10 8.33

Electr. Digital Stopwatch • IP54

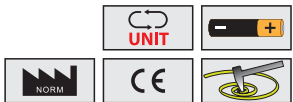
- for standard requirements
- with 3-button-operation
- sturdy ABS-plastic housing
- splash water proof acc. to DIN 40050 / IEC 60529
- LCD display with clear reading
- start / stop / reset-lap / split / daytime / date / alarm with snooze
- with 1.5 V battery (type LR44, art. no.: 90213), with lanyard, protection pouch and operation manual








ART N°	 sec.	indicating range hrs. / min. / sec.	LCD digits	digit height mm		€
580505	1/100	9 / 59 / 59	6	11	85.5 x 64 x 22	35.28 26.46

Electr. Digital Angle Mesurer Spirit Level

- automatic calculation of single and double mitre angles without any other tools
- sturdy aluminium housing, with adjustable bevel blade
- large LCD display, digit height 12 mm, reading from all directions possible, with shiftable backlight
- rapid calculation and transfer of angles by means of memory function for frequently used angle dimensions
- power On/Off button, data hold function, shock resistant up to 1 m falling down
- precise mitre- and self-calibration function
- with 1x horizontal vial and 1x vertical vial
- with fixing screw for fixing the angle setting
- incl. 2x battery 1.5 V (type AAA, art. no.: 90002)
- incl. operation manual



ART N°						€
711020	0 – 225°	0.05°	0.1°	1 mm/m = ±0.057°	440 x 60 x 25	142.89 107.17

Data Cable and Accessorie for Electr. Digital Devices

- compatible with Microsoft Excel



ART N°	article description	€
3420195	USB - Mini-USB interface box with data key and with foot switch port optional, additional available: foot switch (art. no.: 209011)	153.37 115.03

TERMS OF SALE, DELIVERY AND PAYMENT

1. GENERAL

The type and scope of delivery are determined in the order confirmation. The following terms of sale, delivery and payment are authoritative for each delivery to be made by us. We are not bound by the customer's purchasing conditions, even if we do not expressly contradict them. By placing an order, the buyer accepts our conditions without exception. Oral or telephone agreements require our written confirmation. Obvious errors in offers, order confirmations etc. are expressly reserved and can be taken into account at any time. We are entitled to process the data received about buyers with regard to the business relationship or in connection with this - regardless of whether these come from the buyer himself or from third parties - within the meaning of the Federal Data Protection Act.

2. OFFERS

Our offers are non-binding regard to price, quantity, delivery time and delivery options. An order is deemed to have been placed when we have confirmed it in writing. Changes to the goods in terms of appearance or technology are permitted without special notice, provided that the function of the item is not impaired. Article images used in the catalogue may differ from the original article. No liability is assumed for any printing errors, product changes due to technical developments and/or model changes. For printing reasons, the colours in the catalogue may also differ from the original colour of the products.

3. SPECIAL PRODUCTION

In the case of custom-made products, excess or short deliveries of up to 10 % are permitted. This also includes series parts that are to be specially marked at the express request of the customer. The customer cannot withdraw from the order after the order has been confirmed. We do not take back specially manufactured or marked goods.

4. PRICES, DELIVERY BASE AND PACKAGING

All prices mentioned are non-binding and are in EURO per piece or in accordance with the specified quantity units from the price list plus statutory VAT, ex works, excluding packaging. A shipping service of € 7.90 within Germany is charged for each delivery. For freight forwarded goods or deliveries outside of Germany, the shipping service are billed separately. We reserve the right to correct the prices if there are changes in the basic costs, such as raw material, alloy surcharges, energy, wages, etc. by the day of delivery. In the case of special packaging instructions by the customer, the associated additional costs will be charged. Packaging will not be taken back.

5. DELIVERY

Unless otherwise agreed in writing, delivery takes place at the expense and risk of the buyer. The goods are dispatched by a carrier of our choice, unless otherwise agreed. We reserve the right to carry out orders in partial deliveries. In case of goods being taken back as a gesture of goodwill, we are entitled to charge a restocking fee of 15 % of the value of the goods taken back, at least € 15.00 and most € 250.00.

6. DELIVERY TIME, DELIVERY DEADLINES

The delivery time begins after receipt of all information required for the execution of the order. Agreed delivery times are appropriately extended in the event of unforeseen events that are beyond our control, such as strikes, lockouts, operational disruptions, delays in the delivery of primary material, regardless of whether these events occur with us or with our supplier. We are not responsible for such circumstances even if we are already in default. If they occur, both parties are entitled to withdraw from the contract. No claims can be made for late delivery.

7. COMPLAINTS

Obvious defects must be reported in writing and specified within 10 days of receipt of the goods.

8. WARRANTY

For all Vogel Germany measuring tools that are rendered unusable due to proven material or manufacturing defects, we will replace them within one year of delivery. This free replacement service is excluded if the tools have become unusable due to natural wear and tear or improper handling.

9. DISCLAIMER

We do not guarantee the suitability of our products for the purpose intended by the customer. We do not accept any liability for damage caused by unsuitable or improper use, commissioning by the customer or third parties or for natural wear and tear. Any claims for damages, irrespective of the legal reason, and in particular liability through tort (product liability) are excluded - as far as legally permissible.

10. PAYMENT

The payment terms valid on the day of delivery are decisive for the settlement of our invoices. The terms of payment and payment deadlines stated on the invoice apply. We reserve the right to request advance payment. Payments from abroad must be made free of bank charges. Discounts based on specified conditions can only be recognized if no other due invoices are open. The purchaser is in default of payment upon receipt of the first reminder or without a reminder 30 days after the due date and receipt of an invoice in accordance with § 286 Abs.3 German Civil Code (BGB). In the event of default, we are entitled to default interest in accordance with § 286 of the German Civil Code (BGB), subject to proof of further damage caused by default.

11. RETENTION OF TITLE

We reserve title to all goods delivered by us until the buyer has paid all claims arising from the business relationship, including future claims. The buyer is entitled to resell the reserved goods in the ordinary course of business. In the event of a resale, the buyer has to reserve ownership of the sold goods to his customer under the same conditions. The buyer already now assigns to us the purchase price claim to which he is entitled from the resale against the customer.

12. PLACE OF COMPETENCY, JURISDICTION, APPLICABLE LAW

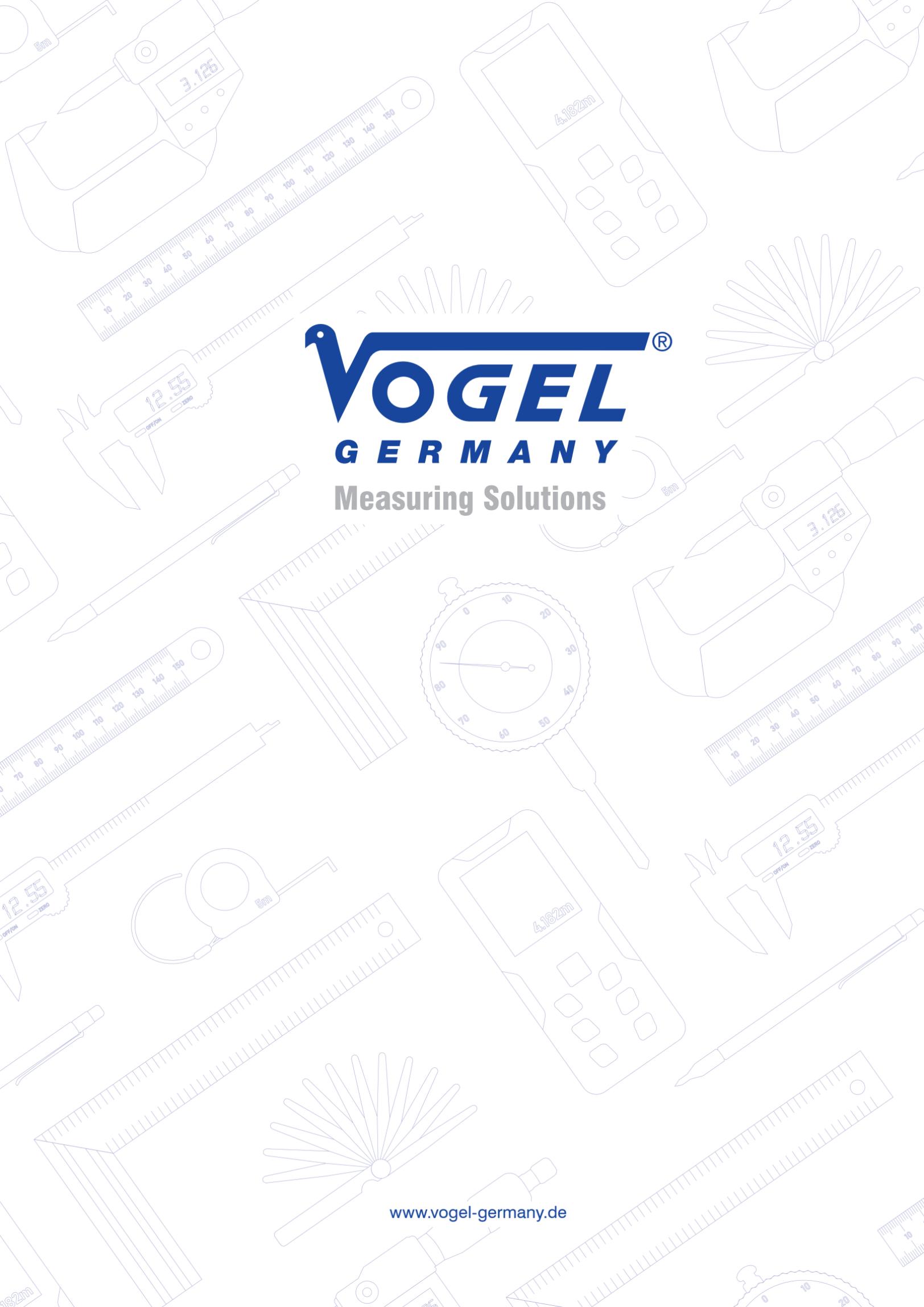
The place of competency is Kevelaer (Germany). The place of jurisdiction for all disputes arising from our legal relationship with the customer is Kevelaer (Germany). However, we are also entitled to take legal action at the customer's headquarters. German law applies and, in exceptional cases, UN sales law

13. OTHER CLAIMS

Other claims - for whatever reason - remain excluded unless they have been expressly confirmed to the buyer in writing

14. OTHERS

If individual regulations of these terms of sales, delivery and payment are or become ineffective, this shall not affect the validity of the remaining regulations.



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Only while stocks last. Price changes reserved.

Our known sales, delivery and payment conditions apply exclusively.
All prices in this promotion are understood, unless otherwise stated in the offer, ex warehouse,
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