

Explanations

In our catalogue 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-Code) acc. to DIN 40050 / IEC 60529 etc.	
	Protected against solid particles $\varnothing > 1 \text{ mm}$
	Protected against solid particles $\varnothing > 1 \text{ mm}$ and drop water resistant
	Splash water resistant
	Drop water resistant
	Drop water resistant
	Dust and spray water resistant
	Dust and spray water resistant
	Dust and drop water proof
	Dust and spray water proof
	Dust and splash water proof
	Dust and jet water proof
	Water and oil tight (at times)
	Water and oil tight (permanent)
	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
	Stainless steel

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) possible
	Software on CD-Rom

Several Icons	
	Article-Number
	Reading / Resolution
	Weight in kg
	Cross section of the article
	Max. total accuracy(±)
	Repeatability (±)
	Individual measuring range
	Article dimension
	Measuring- and weighing-unit selectable or swichtable
	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

ATTENTION
We charge transport and packing costs for articles marked with *!

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



About the Certification:













We are also able to quote all DIN measuring tools with a certificate to VDI/VDE/DGQ 2618. Measuring tools manufactured at works standard will be certificated according to this norm. The calibrations will be done by an external calibration laboratory. The delivery time for external calibration will take approx one week. Calibration orders can't be cancelled and calibrated goods are excluded from sale of return. Whether you expect a calibration by laboratory of your choice, we are unable to guarantee for passing. Compensation of refund of costs are also impossible.

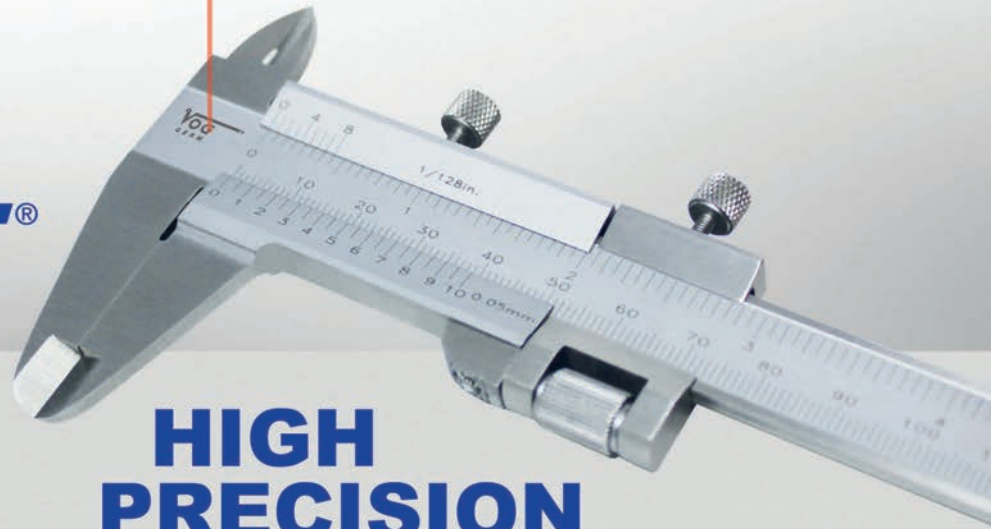
Norms, accuracy-classes, regulations	
EC I	Article fulfils the respective EC Class standard
EC II	Article fulfils the respective EC Class standard
E1	Article fulfils the respective verification standard
CC	Workshop calibration certificate, inclusive
TC	Article with test certificate, marked with Ident.-No.
CE	Article with CE classification
MID CODE	Directive of the European Parliament and of the council on measuring instruments
T2	Article with strengths tolerances acc. to DIN 2275
T3	Article with strengths tolerances acc. to DIN 2275
ASTM	Article fulfils the respective American standard
BS	Article fulfils the respective British standard
JIS K	Article fulfils the respective Japanese standard
DIN	Article fulfils the respective DIN standard
DIN EN	Article fulfils the respective DIN EN standard
ISO	Article fulfils the respective ISO standard
DIN ISO	Article fulfils the respective DIN ISO standard
NORM	Article manufactured acc. to tolerances of workshop standard
TÜV GS	Article with seal: "TÜV/Geprüfte Sicherheit (GS)"
vd TÜV	Article with seal: "TÜV"
IEC / EN	Article fulfils the respective norm standard

**Workshop or „DAkKS“-Calibration
(German Calibration Service)**
Calibrated instruments available for extra charge.
Please send us your specific inquiry.

Quality categories	
★★★★★	Product for highest demands
★★★★☆	Industry and craft
★★★☆☆	Craft
★★☆☆☆	DIY and training

Art of package for each article	
	Article will be packed in a carton box
	Article will be packed in a sturdy box (wood, plastic or aluminum)
	Article will be packed in a leatherette pouch
	Article will be packed in a PVC pouch
	Article will be packed in a sleeve
	Article will be sealed in a foil
	Article will be packed in a DIY plastic pouch with hanging card
	Article will be packed in a plastic film pouch with hanging card
	Article comes with wall hanging card
	Article will be packed in a blister packing
	Article will be packed a clear plastic box
	Carry bag, for outdoor use
	Article delivered on a pallet

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



HIGH PRECISION LASERCENTER

Modern technologies for high precision!

Special scales, your logotypes, pictures, drafts etc. - There is nothing impossible.

Laser engraving has a lot of advantages.
One is the top quality, high accuracy and the long-life cycle.

Flexibility is an asset of Vogel Germany for your needs
because manufacturing is on a low cost level.

**Laser engravings
we can do at:**

- ✓ steel, high-grade steel, stainless steel
- ✓ cast iron
- ✓ non-ferrous metal
- ✓ special plastic material



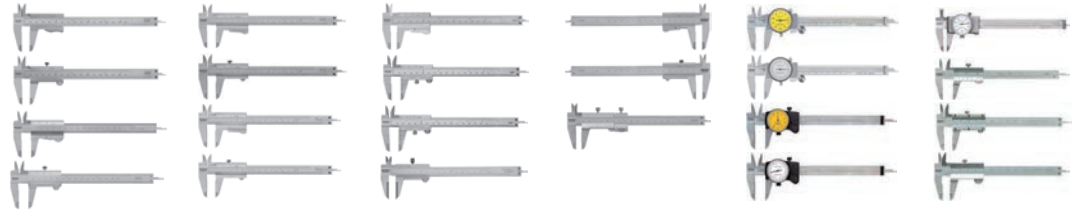
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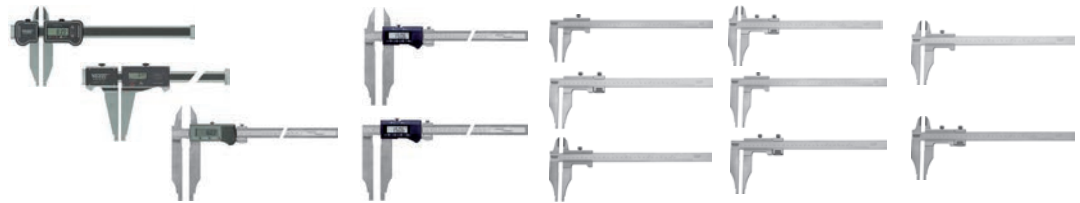
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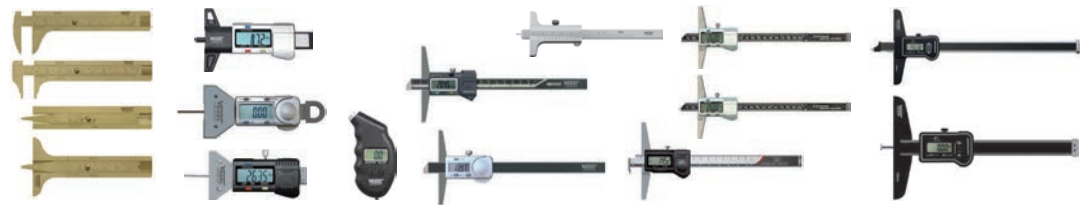
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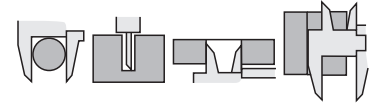
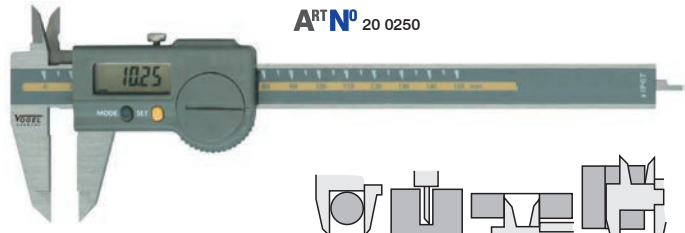


Precision Digital Calipers

★★★★★ DIGI PLUS-LINE® Electr. Digital Caliper • IP67 DIN 862

- professional model for high standards
- water and coolant proof acc. to DIN 40050 / IEC 60529
- with Sylvac electronic, with proximity data output

- proximity USB / RS232
- stainless steel, hardened
- LCD display with clear reading, 7 mm digit height
- jaws finely ground and lapped, flat and round depth gauge
- smart inductive sensor (S.I.S.):
 - autom. On/Off, autom. stand-by mode
 - ORIGIN saved
- zero setting at any position, SET-button, MODE-button
- unit of measurement switchable mm/inch
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual
- incl. calibration certificate

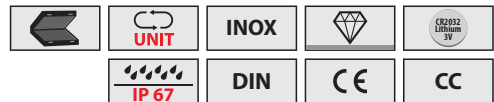
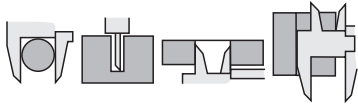


ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	CC
20 0250	150 / 6	0.01 / 0.0005	0.01	0.02	40	16	flat	0.170	inclusive	
20 0251	200 / 8	0.01 / 0.0005	0.01	0.03	50	19	flat	0.190	inclusive	
20 0252	300 / 12	0.01 / 0.0005	0.01	0.03	64	19	-	0.215	inclusive	
20 0253	150 / 6	0.01 / 0.0005	0.01	0.02	40	16	round	0.170	inclusive	

★★★★★ DIGI PLUS-LINE® Electr. Digital Caliper • IP67 DIN 862

- top model for industry purposes
- water and coolant proof acc. to DIN 40050 / IEC 60529
- with Sylvac electronic, without data output

- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 8 mm digit height
- jaws finely ground and lapped, flat depth gauge
- On/Off button, SET button, MODE button
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual
- incl. calibration certificate

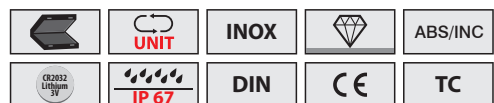
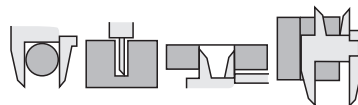


ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	CC
20 2120	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	flat	0.170	inclusive	
20 2121	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	0.200	inclusive	
20 2122	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	0.280	inclusive	

★★★★★ DIGI PLUS-LINE® Electr. Digital Caliper • IP67 DIN 876

- standard model for craftsmen
- water and coolant 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
- On/Off button, autom. shutdown, with ABS/INC measuring system
- with locking screw
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR1632, art.-no.: 20 02193), with operation manual

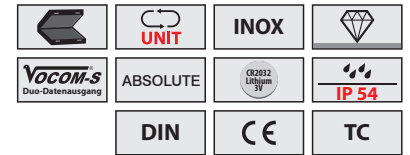
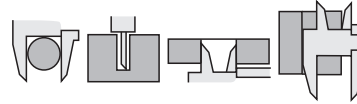


ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART No CC
20 2130	150 / 6	0.01 / 0.0005	0.01	0.03	40	16	flat	0.165		20 94101
20 2131	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	0.195		20 94101
20 2132	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	0.230		20 94101

DIGI PLUS-LINE **"Absolute" Electr. Digital Caliper • IP54**
DIN 862

- top model for industry purposes
- with glass rail for more accuracy
- spray water proof acc. to DIN 40050 / IEC 60529
- with **VOCOM-S** duo 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.: 20 02093), with operation manual

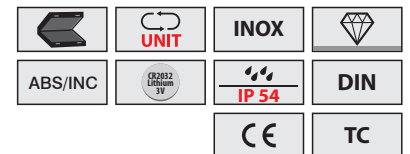
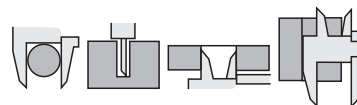


ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART No CC
20 2150	150 / 6	0.01 / 0.0005	0.01	0.02	40	16	flat	0.165	20 94101	
20 2151	200 / 8	0.01 / 0.0005	0.01	0.02	50	19.5	flat	0.195	20 94101	
20 2152	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	0.230	20 94101	

DIGI PLUS-LINE **Electr. Digital Caliper • IP54**
DIN 862

- top model for industry purposes
- with glass rail for more accuracy
- 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
- On/Off button, with ABS/INC measuring system
- graduation in mm or inch, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual

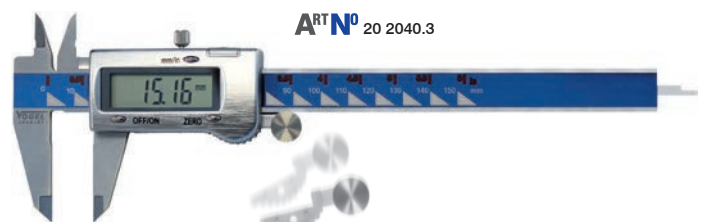


ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART No CC
20 2160	150 / 6	0.01 / 0.0005	0.01	0.02	40	15	flat	0.160	20 94101	
20 2161	200 / 8	0.01 / 0.0005	0.01	0.02	50	18	flat	0.195	20 94101	
20 2162	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	0.230	20 94101	

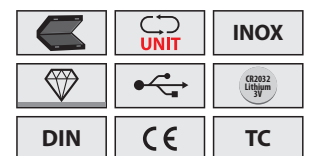
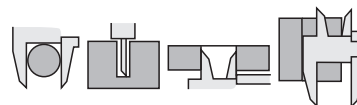
DIGI PLUS-LINE **Electr. Digital Caliper**
DIN 862

- top model for professional workshop use
- 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.: 20 02093), with operation manual



with removeable thumbroll



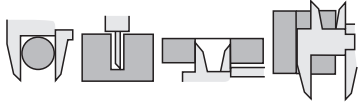
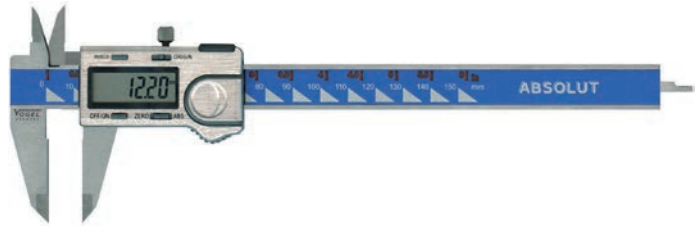
ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART No CC
20 2040.3	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	flat	0.165	20 94101	
20 2041.3	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	0.195	20 94101	
20 2042.3	300 / 12	0.01 / 0.0005	0.01	0.03	60	20.5	flat	0.230	20 94101	
20 2043.3	150 / 6	0.01 / 0.0005	0.01	0.02	40	16.5	round	0.165	20 94101	

Precision Digital Calipers

★★★★★ DIGI PLUS-LINE[®] „Absolute“ Electr. Digital Caliper DIN 862

- with metal housing
- with data output (mini USB)

- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 8 mm digit height
- jaws finely ground and lapped, with fixing screw
- On/Off button, with „ORIGIN“ system
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR1632, art.-no.: 20 02193), with operation manual

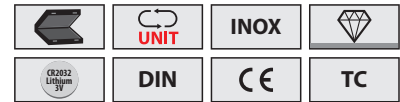
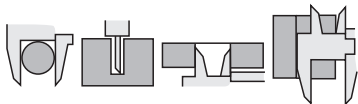
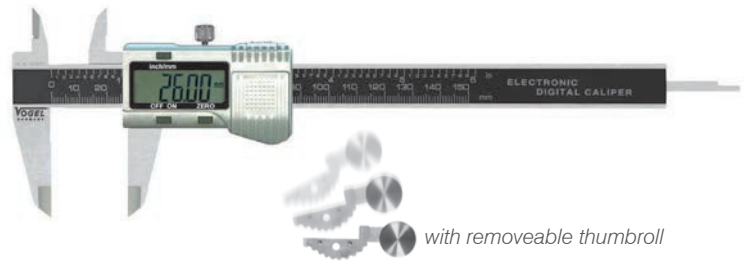


ART No	mm / inch	mm / inch	mm	mm	mm	mm	mm	mm	KG	ART No CC
20 2110	150 / 6	0.01 / 0.0005	0.01	0.03	40	16.5	flat	0.150	20 94101	
20 2111	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	0.190	20 94101	
20 2112	300 / 12	0.01 / 0.0005	0.01	0.04	60	20.5	flat	0.230	20 94101	

★★★★★ DIGI PLUS-LINE[®] Electr. Digital Caliper DIN 862

- with plastic housing

- 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
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual

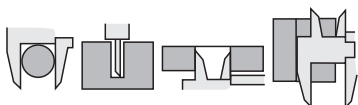


ART No	mm / inch	mm / inch	mm	mm	mm	mm	mm	mm	KG	ART No CC
20 2011.2	150 / 6	0.01 / 0.0005	0.01	0.04	40	16.5	flat	0.150	20 94101	
20 2012.2	200 / 8	0.01 / 0.0005	0.01	0.05	50	19.5	flat	0.175	20 94101	
20 2013.2	300 / 12	0.01 / 0.0005	0.01	0.05	60	20.5	flat	0.215	20 94101	

★★★★★ DIGI PLUS-LINE[®] Electr. Digital Caliper DIN 862

- with metal housing and metal buttons
- without data output

- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 8 mm digit height
- jaws finely ground and lapped, with fixing screw
- On/Off button
- mm/inch switchable, zero setting at any position
- incl. 2x 1.5 V battery (type LR44, art.-no.: 20 20192/B), with operation manual

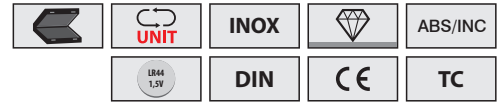
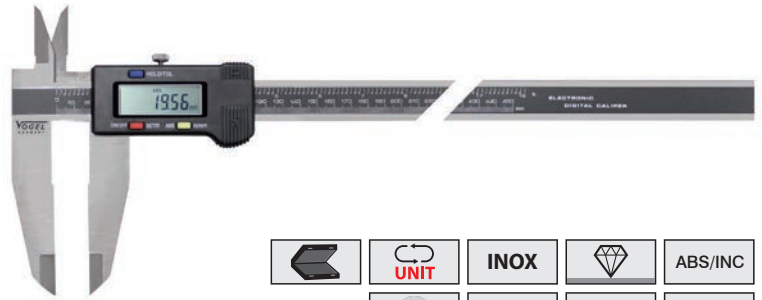


ART No	mm / inch	mm / inch	mm	mm	mm	mm	mm	mm	KG	ART No CC
20 2140	100 / 4	0.01 / 0.0005	0.01	0.02	30.5	12.5	flat	0.115	20 94101	



Electr. Digital Caliper DIN 862

- standard model for larger measuring range
- 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. 2x 1.5 V battery (type LR44, art.-no.: 20 20192/B), with operation manual



ART NO	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART NO CC
20 2007	450 / 18	0.01 / 0.0005	0.01	0.04	100	38	-	0.935	20 94101	
20 2006	600 / 24	0.01 / 0.0005	0.01	0.04	100	38	-	1.070	20 94105	

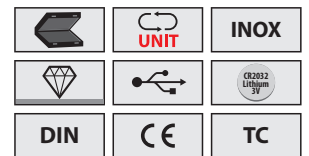
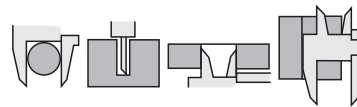


Electr. Digital Caliper DIN 862

- 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.: 20 02093), with operation manual



with removeable thumbroll

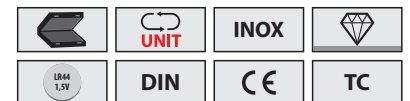
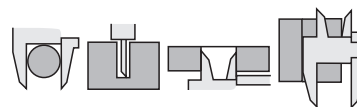


ART NO	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART NO CC
20 2020.3	150 / 6	0.01 / 0.0005	0.01	0.03	40	16.5	flat	0.155	20 94101	



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. 2x 1.5 V battery (type LR44, art.-no.: 20 20192/B), with operation manual



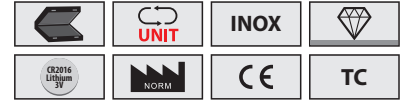
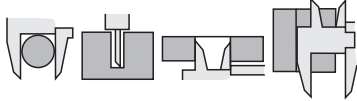
ART NO	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	ART NO CC
20 2035	150 / 6	0.01 / 0.0005	0.01	0.03	40	16.5	flat	0.150	20 94101	
20 2036	200 / 8	0.01 / 0.0005	0.01	0.03	50	19.5	flat	0.190	20 94101	

Data cables and other equipment for data processing on PC or printer are available on page 312
Batteries for our Digital Gauges are available on page 314

Precision Digital Calipers

DIGI PLUS-LINE[®] „Solar“ Electr. Digital Caliper

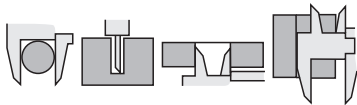
- with power supply by solar cells
- stainless, hardened
- large LCD display with clear reading, 9 mm digit height
- jaws finely ground and lapped, with flat depth gauge
- Zero/On button and autom. shutdown
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2016, art.-no.: 20 02194), with operation manual



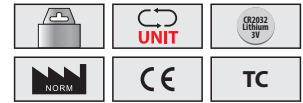
ART N°	mm / inch	mm / inch	mm	mm				KG	ART N° CC
20 2051	150 / 6	0.01 / 0.0005	0.01	0.03	40	20	flat	0.160	20 94101

DIGI PLUS-LINE[®] Electr. Digital Caliper

- made of carbon fiberglass, non conductive and especially made for the electronic and sensitive purposes, like the food sector and automotive parts
- with fraction number reading system
- large LCD display with clear reading, 13 mm digit height
- Zero/On button and autom. shutdown
- mm/inch switchable, zero setting at any position
- with flat depth gauge made of carbon fiberglass
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



display with fraction number in inches



ART N°	mm / inch	mm / inch	mm	mm				KG
20 2201	150 / 6	0.01 / 0.0005	0.1	0.2	40	16	flat	0.060

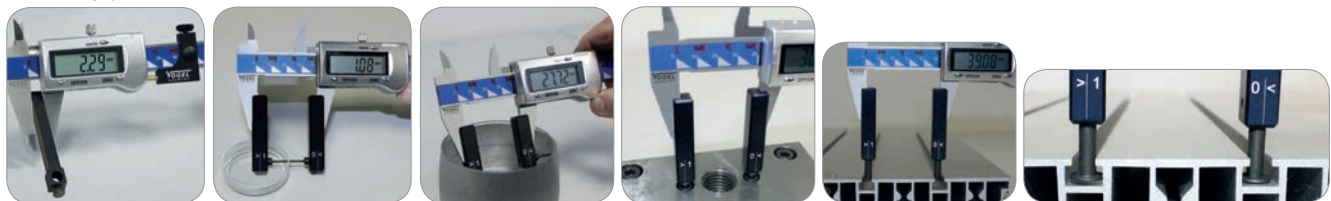
BLUE-LINE[®] Accessories for Digital Calipers

NEW

- for many purposes
- 6 pairs of different probes
- 2 adapter pairs, different sizes
- with measuring force testing system (for permanent uniform pressure)



measuring force testing system



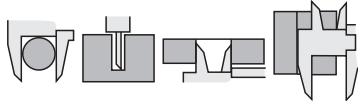
ART N°	description	KG
20 9333	Accessories for Digital Calipers	0.325

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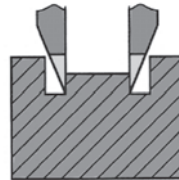
★★★★★ DIGI PLUS-LINE® Electr. Digital Pointed Caliper

- to measure narrow groove widths etc.
- with metal cover and metal button
- 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 depth gauge
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



with removeable thumbroll



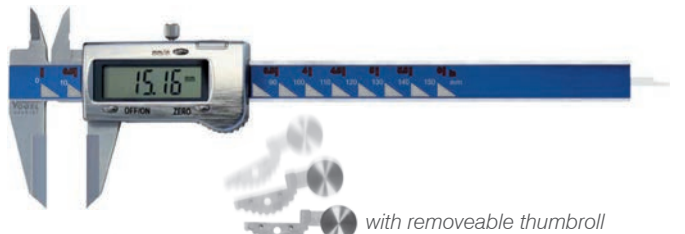
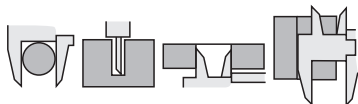
		INOX
		CR2032 Lithium 3V
DIN	CE	TC

ART NO										ART NO CC
20 2025	mm / inch	mm / inch	mm	max. mm	40	16	flat	0.165	20 94101	

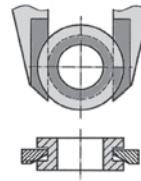
★★★★★ DIGI PLUS-LINE® Electr. Digital Splines Caliper

- to measure narrow penetration usw.
- with metal cover and metal button
- 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 depth gauge
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



with removeable thumbroll



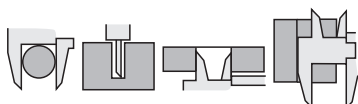
		INOX
		CR2032 Lithium 3V
DIN	CE	TC

ART NO										ART NO CC
20 2026	mm / inch	mm / inch	mm	max. mm	40	16.5	flat	0.165	20 94101	

★★★★★ DIGI PLUS-LINE® Electr. Digital Special Caliper

- to measure especially deep penetrations etc.
- with metal cover and metal button
- 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 depth gauge
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



with removeable thumbroll



		INOX
		CR2032 Lithium 3V
DIN	CE	TC

ART NO										ART NO CC
20 2027	mm / inch	mm / inch	mm	max. mm	40	45	flat	0.165	20 94101	

We also manufacture special calipers to your needs.
Please ask us or send us your drawings. We are happy to help you!

Precision Pocket Vernier Calipers

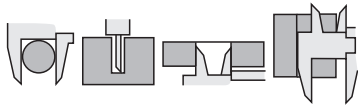
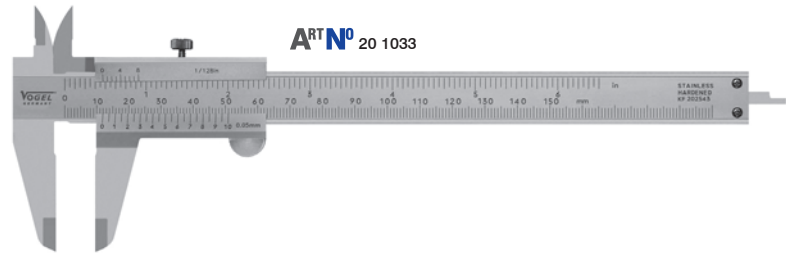
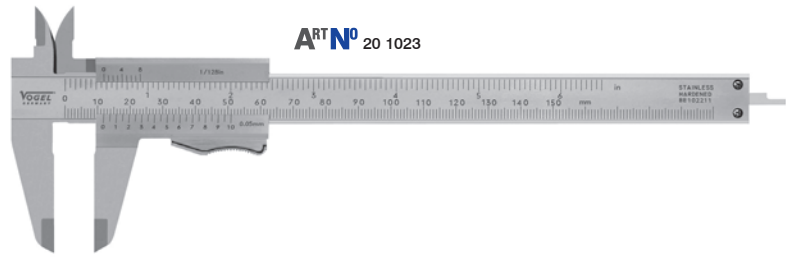


Precision Pocket Vernier Caliper

NEW

DIN 862

- for professional industry purposes
- stainless steel, hardened
- reading in mm/inch, scale laser engraved
- reading satin chrome finish
- jaws fine ground and lapped
- mono-block vernier
- flat depth gauge



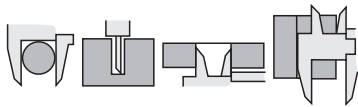
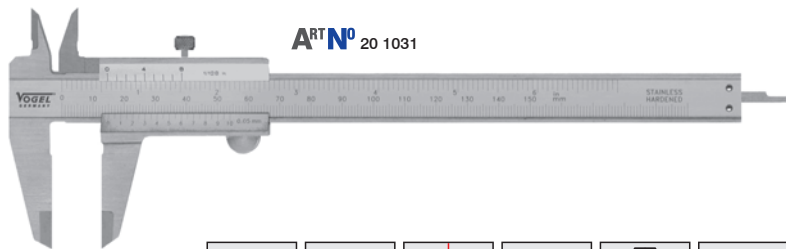
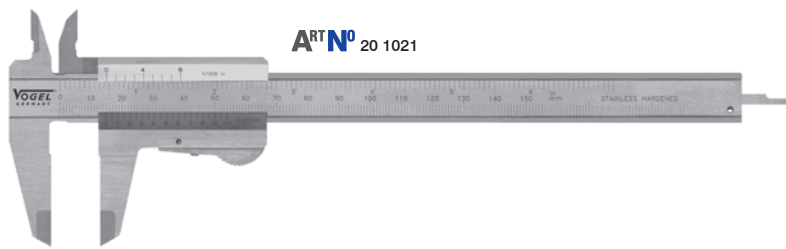
ART N°	type	mm / inch	mm bottom	inch top				KG	ART N° CC
20 1023	thumb locking	150 / 6	0.05	1/128	40	16	flat	0.150	20 94001
20 1033	fixing screw	150 / 6	0.05	1/128	40	16	flat	0.150	20 94001



Pocket Vernier Caliper

DIN 862

- suitable for workshop use (standard)
- 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° thumb locking	ART N° fixing screw	mm / inch	mm bottom	inch top				KG	ART N° CC
20 1021	20 1031	150 / 6	0.05	1/128	40	16	flat	0.150	20 94001
20 1022	20 1032	150 / 6	0.05	1/128	40	16	round	0.150	20 94001
20 1024	20 1034	200 / 8	0.05	1/128	50	19	flat	0.170	20 94001
20 1025	20 1035	150 / 6	0.02	1/1000	40	16	flat	0.150	20 94001
20 1026	20 1036	200 / 8	0.02	1/1000	40/50	16/19	flat	0.170	20 94001
-	20 1038	200 / 8	0.05	1/128	40	16	round	0.170	20 94001
-	20 1013	300 / 12	0.05	1/128	60	20	flat	0.250	20 94001
-	20 1015	300 / 12	0.02	1/1000	64	20	flat	0.250	20 94001

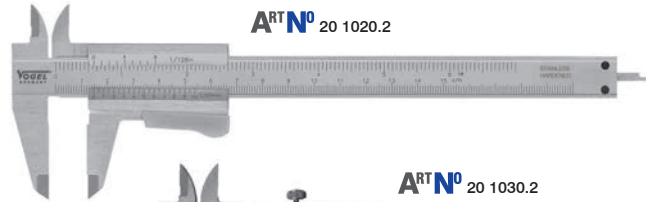
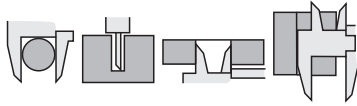
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Precision Pocket Vernier Calipers

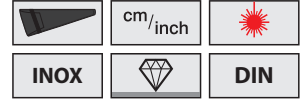
★★★★★ BLUE-LINE® Pocket Vernier Caliper DIN 862

• for craftsmen

- stainless, hardened
- reading in cm/inch, scale laser engraved
- scale and vernier satin chrome finish
- jaws fine ground, flat depth gauge
- mono-block vernier



NEW



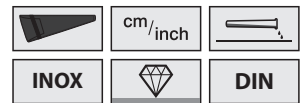
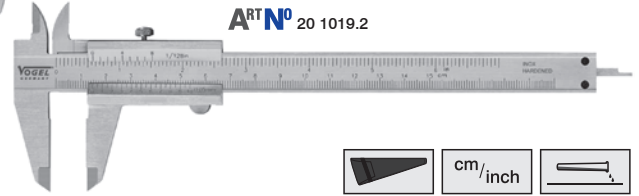
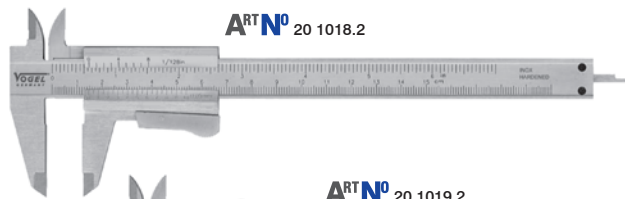
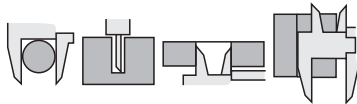
ART No	ART No	mm / inch	mm bottom	inch top				KG	ART No CC
thumb locking	fixing screw	mm / inch	mm bottom	inch top					
20 1020.2	20 1030.2	150 / 6	0.05	1/128	40	16	flat	0.155	20 94001

★★★★★ BLUE-LINE® Pocket Vernier Caliper DIN 862

NEW

• simple quality for DIY and training purposes

- inox, hardened
- graduation in cm/inch, scale etched
- reading satin chrome finish, flat depth gauge
- jaws finely ground and lapped

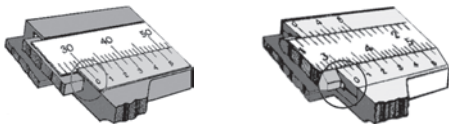
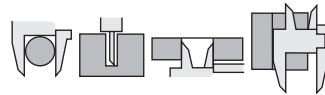


ART No	ART No	mm / inch	mm bottom	inch top				KG
thumb locking	fixing screw	mm / inch	mm bottom	inch top				
20 1018.2	20 1019.2	150 / 6	0.05	1/128	40	16	flat	0.155

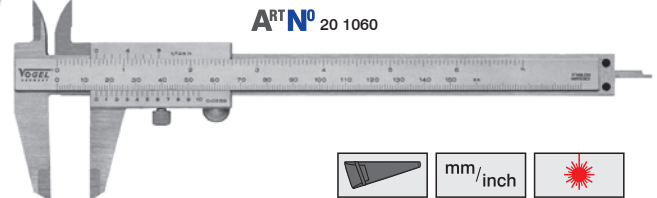
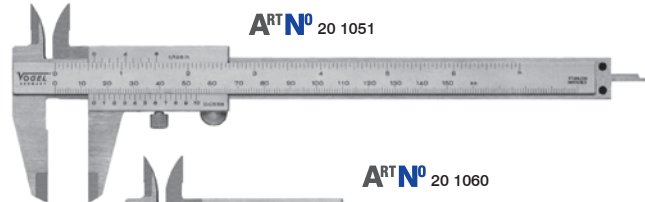
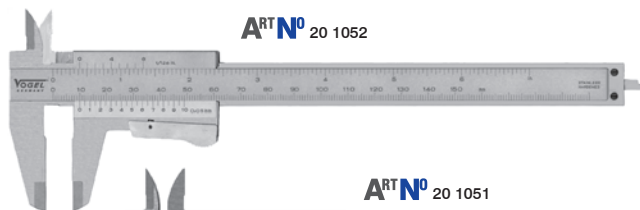
★★★★★ BLUE-LINE® Pocket Vernier Caliper DIN 862

• with parallaxfree reading • art.-no. 20 1060 with double-prism guide

- stainless steel, hardened
- graduation in mm/inch, laser engraved scale
- reading satin chrome finish
- jaws finely ground and lapped, flat depth gauge
- mono-block vernier



with double-prism guide

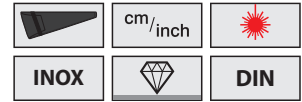
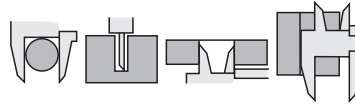
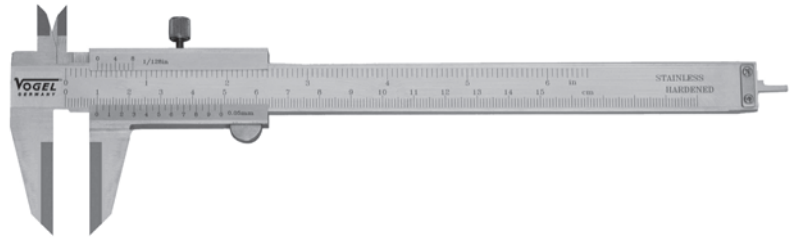


ART No	ART No	mm / inch	mm bottom	inch top				KG	ART No CC
thumb locking	fixing screw	mm / inch	mm bottom	inch top					
★★★★★ 20 1052	★★★★★ 20 1051	150 / 6	0.05	1/128	40	16	flat	0.155	20 94001
★★★★★ 20 1054	★★★★★ 20 1053	150 / 6	0.02	1/1000	40	16	flat	0.155	20 94001
-	★★★★★ 20 1060	150 / 6	0.05	1/128	40	16	flat	0.155	20 94001

Pocket Vernier Calipers

★★★★★ BLUE-LINE® Pocket Vernier Caliper DIN 862

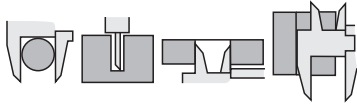
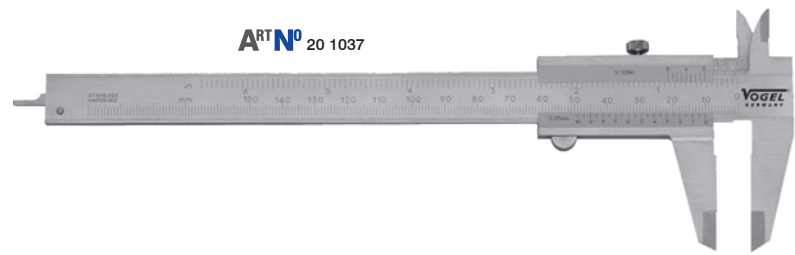
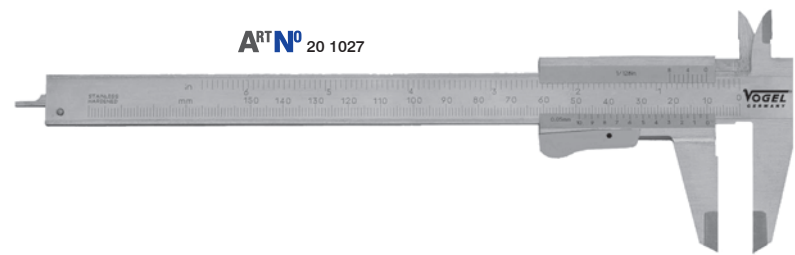
- with tungsten carbide measuring jaws and tips
- stainless steel, hardened
- graduation in mm/inch, laser engraved scale
- scale and vernier satin chrome finish
- jaws finely ground and lapped
- mono block vernier



ART N°	mm / inch	mm bottom	inch top				KG	ART N° CC
20 1039	150 / 6	0.05	1/128	40	16	flat	0.165	20 94001

★★★★★ BLUE-LINE® Pocket Vernier Caliper DIN 862

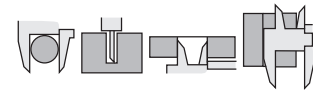
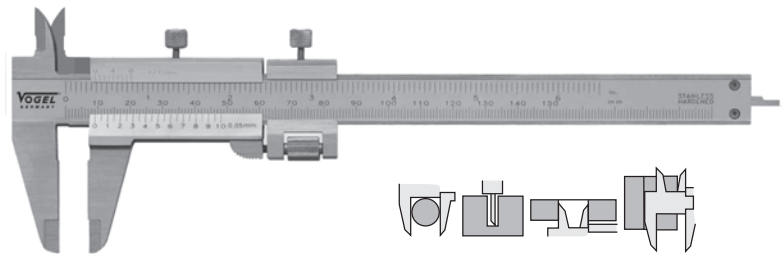
- for left-handed use
- stainless steel, hardened
- graduation in mm/inch, laser engraved scale
- scale and vernier satin chrome finish
- jaws finely ground and lapped
- mono block vernier



ART N° thumb locking	ART N° fixing screw	mm / inch	mm bottom	inch top				KG	ART N° CC
20 1027	20 1037	150 / 6	0.05	1/128	40	16	flat	0.155	20 94001

★★★★★ BLUE-LINE® Pocket Vernier Caliper workshop grade

- with fine adjustment and long jaws
- stainless steel, hardened
- graduation in mm/inch, laser engraved scale
- scale and vernier satin chrome finish
- jaws finely ground and lapped
- mono block vernier
- with fine adjustment



ART N°	mm / inch	mm bottom	inch top				KG	ART N° CC
20 1062	130 / 5	0.05	1/128	40	16.5	flat	0.164	20 94015
20 1063	130 / 5	0.02	1/1000	40	16.5	flat	0.164	20 94015
20 1064	180 / 7	0.05	1/128	50	19.5	flat	0.200	20 94020
20 1065	180 / 7	0.02	1/1000	50	19.5	flat	0.200	20 94020

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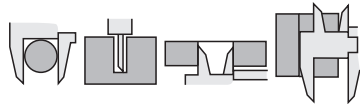
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BLUE-LINE® Dial Caliper • IP40
DIN 862

- economic model, shock proof mechanics
- for fast and accurate reading

- stainless steel, hardened
- measuring rail matt chrome finish, laser engraved scale
- jaws finely ground and lapped
- dust proof housing, flat depth gauge
- with thumb roll for fine adjustment
- with fixing screw

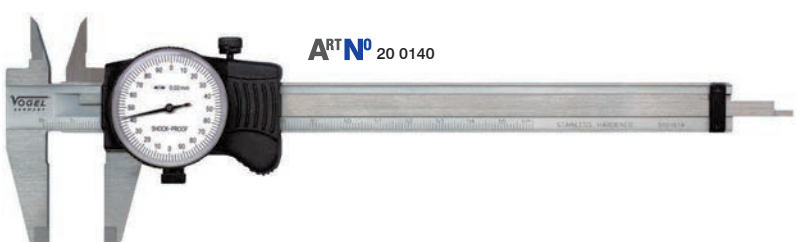
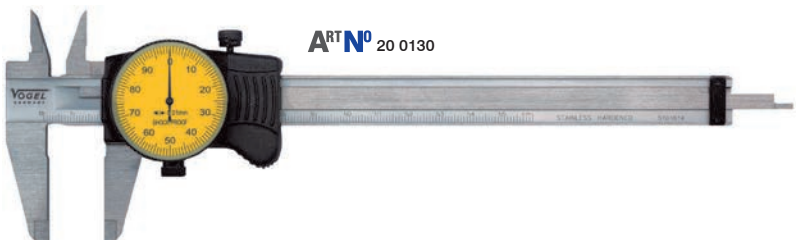
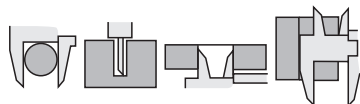


ART NO	mm	mm	mm					ART NO CC
20 1101	150	0.01	1	40	16.5	flat	0.160	20 94001
20 1108	200	0.01	1	48	19.5	flat	0.240	20 94001
20 1109	300	0.01	1	62	22.0	flat	0.320	20 94001
20 1102	150	0.02	2	40	16.5	flat	0.160	20 94001
20 1103	200	0.02	2	48	19.5	flat	0.240	20 94001
20 1104	300	0.02	2	62	22.0	flat	0.320	20 94001

SILVER-LINE® Precision Dial Caliper • IP40
DIN 862

- top model, shock proof mechanics
- for fast and accurate reading

- stainless steel, hardened
- measuring rail matt chrome finish, laser engraved scale
- jaws finely ground and lapped
- dust proof housing, flat depth gauge
- with fixing screw
- incl. calibration certificate

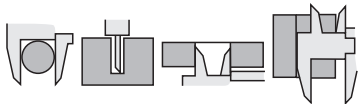


ART NO	mm	mm	mm					CC
20 0130	150	0.01	1	40	16	flat	0.215	inclusive
20 0131	200	0.01	1	50	19	flat	0.250	inclusive
20 0132	300	0.01	1	60	18	flat	0.330	inclusive
20 0140	150	0.02	2	40	16	flat	0.215	inclusive
20 0141	200	0.02	2	50	19	flat	0.250	inclusive
20 0142	300	0.02	2	60	18	flat	0.330	inclusive

Dial and Small Pocket Vernier Calipers

★★★★★ BLUE-LINE® Dial Caliper • IP40 DIN 862

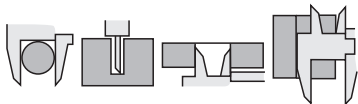
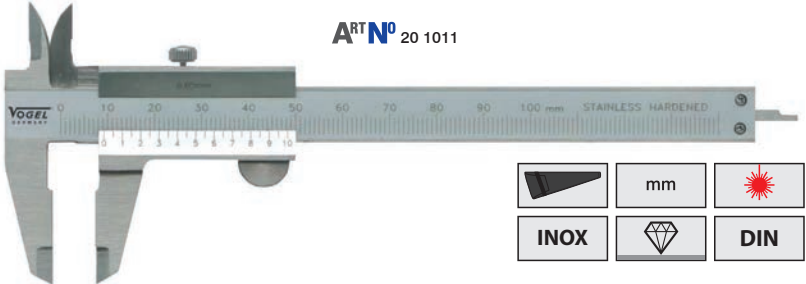
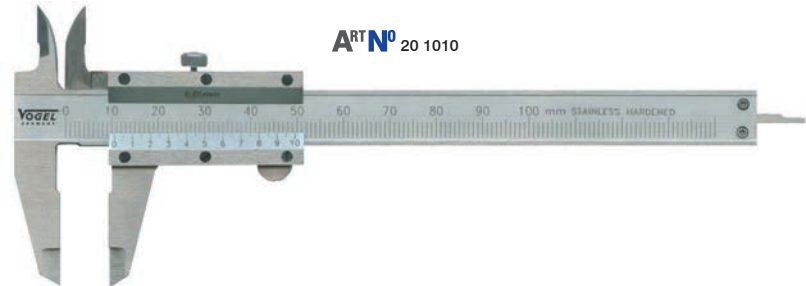
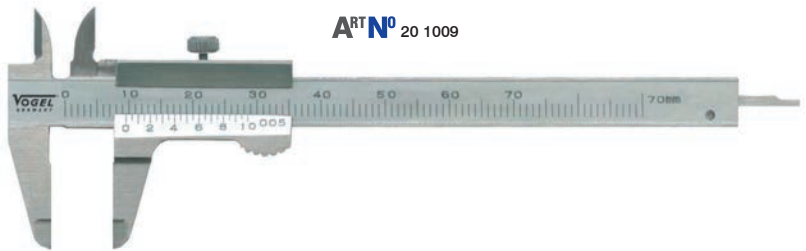
- with inch graduation, dust proof
- for fast and accurate reading
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- jaws finely ground and lapped
- shock proof housing
- with fixing screw



ART N°	inch	inch	inch				KG	ART N° CC
20 0081	6	0.001	0.1	40	16	flat	0.160	20 94001
20 0082	8	0.001	0.1	50	19	flat	0.240	20 94001
20 0083	12	0.001	0.1	60	18	flat	0.320	20 94001

BLUE-LINE® Small Pocket Vernier Caliper DIN 862

- for craftsmen or as promotional item
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- jaws finely ground and lapped
- with fixing screw



ART N°	mm	mm				KG	ART N° CC
★★★★★ 20 1009	70	0.05	20	9	flat	0.023	20 94001
★★★★★ 20 1010	100	0.05	30	13	flat	0.040	20 94001
★★★★★ 20 1011	100	0.05	30	13	flat	0.040	20 94001

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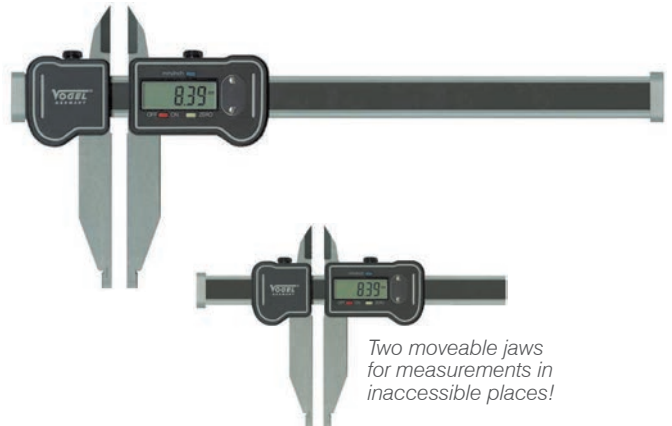
Electr. Digital Workshop Caliper workshop grade

- with two moveable, exchangeable jaws
- modern design, lightweight model, made of anodized hard aluminium

- stainless, hardened measuring jaws and tips
- jaws finely ground
- with two adjustable, exchangeable measuring jaws
- LCD display with clear reading, digit height 10 mm
- On/Off button, mm/inch switchable, zero setting at any position
- slides perfectly because of double-prismatic-lead
- rail and electronic housing made of anodized aluminium
- incl. 1x 1.5 V battery (type LR44, art.-no.: 20 20192/B) with operation manual

Options

- art.-no. 20 0891 measuring jaw-pair, jaw length 125 mm, exchangeable
- art.-no. 20 0892 measuring jaw-pair, jaw length 150 mm, exchangeable



Two moveable jaws for measurements in inaccessible places!



measuring jaw-pair



ART NO	mm / inch	mm / inch	mm	max. mm	mm	mm	ø mm	KG	ART NO CC
20 0880	300 / 12	0.01 / 0.0005	0.01	0.04	90	40	10	0.500	20 94103
20 0881	500 / 20	0.01 / 0.0005	0.01	0.05	90	40	10	0.600	20 94105
20 0882	800 / 32	0.01 / 0.0005	0.01	0.06	90	40	10	1.000	20 94110



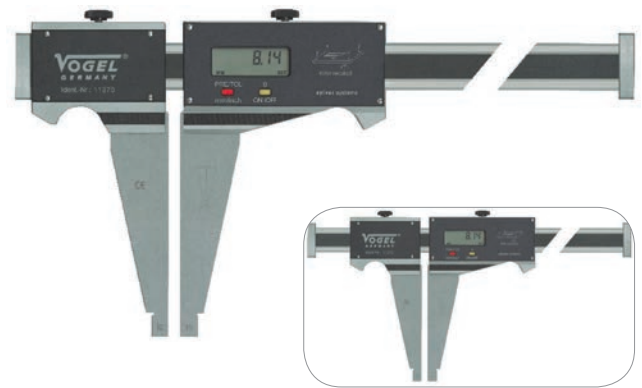
Electr. Digital Workshop Caliper workshop grade

- with two adjustable, exchangeable measuring jaws
- modern design, lightweight model, made of anodized hard aluminium, with Sylvac electronic

- stainless, hardened measuring jaws
- jaws finely ground, offset jaws for inside measurements
- with two adjustable, exchangeable measuring jaws
- LCD display with clear reading, digit height 7 mm
- On/Off button, mm/inch switchable, zero setting at any position
- with pre-select-, Min/Max-, REF-I, REF-II and tolerance-function
- slides perfectly because of double-prismatic-lead
- rail and electronic housing made of anodized aluminium
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093) with operation manual

Option

- measuring jaws are also available according to your drawing specifications!



Two moveable jaws for measurements in inaccessible places!



ART NO	mm / inch	mm / inch	mm	max. mm	mm	mm	ø mm	KG	ART NO CC
20 0940	500 / 20	0.01 / 0.0005	0.01	0.05	150	20	20	1.380	20 94105
20 0942	1000 / 40	0.01 / 0.0005	0.01	0.06	150	20	20	1.700	20 94110
20 0942/1	1000 / 40	0.01 / 0.0005	0.01	0.06	200	20	20	1.830	20 94110
20 0943*	1500 / 60	0.01 / 0.0005	0.01	0.10	150	20	20	2.000	20 94115
20 0943/1*	1500 / 60	0.01 / 0.0005	0.01	0.10	200	20	20	2.130	20 94115
20 0944*	2000 / 80	0.01 / 0.0005	0.01	0.13	150	20	20	2.400	20 94120
20 0944/1*	2000 / 80	0.01 / 0.0005	0.01	0.13	200	20	20	2.530	20 94120

Precision Digital Workshop Calipers

DIGI PLUS-LINE **Electr. Digital Workshop Caliper • IP66**
workshop grade

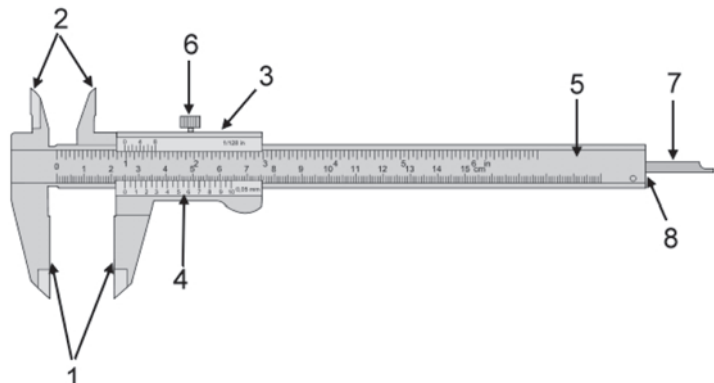
- water and coolant proof acc. to DIN 40050 / IEC 60529
- stainless steel, hardened
- large LCD display with clear reading, digit height 11 mm
- jaws finely ground and lapped
- offset jaws for inside measurements
- On/Off button, automatic shutdown, mm/inch switchable
- zero setting at any position, with REL-, ABS- and PRESET-mode
- function buttons made of metal
- with fine adjustment, with or without knife points
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093)
- with operation manual
- incl. calibration certificate



ART No	mm / inch	mm / inch	mm	max. mm	mm	mm	mm	mm	KG	CC
20 7040	500 / 20	0.01 / 0.0005	0.01	0.06	100	56	20	1.370	inclusive	
20 7041	500 / 20	0.01 / 0.0005	0.01	0.06	150	56	20	1.550	inclusive	
20 7140	500 / 20	0.01 / 0.0005	0.01	0.06	100	-	20	1.050	inclusive	
20 7141	500 / 20	0.01 / 0.0005	0.01	0.06	150	-	20	1.180	inclusive	
20 7144	800 / 32	0.01 / 0.0005	0.01	0.07	150	-	20	1.685	inclusive	
20 7145	800 / 32	0.01 / 0.0005	0.01	0.07	200	-	20	1.880	inclusive	
20 7146	1000 / 40	0.01 / 0.0005	0.01	0.07	150	-	20	2.290	inclusive	
20 7147	1000 / 40	0.01 / 0.0005	0.01	0.08	200	-	20	2.400	inclusive	
20 7048	1000 / 40	0.01 / 0.0005	0.01	0.07	150	67	20	2.420	inclusive	
20 7049	1000 / 40	0.01 / 0.0005	0.01	0.08	200	67	20	2.530	inclusive	

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



Precision Digital Workshop Calipers



Electr. Digital Workshop Caliper workshop grade

- with data output (mini USB)
- 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, mm/inch switchable, zero setting at any position
- from 500 mm with INC-, ABS- and PRESET-mode
- with fine adjustment, with or without knife points
- up to 300 mm incl. 1x 1.5 V battery (type LR44, art.-no.: 20 20192/B)
- from 500 mm incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093) with operation manual



housing for 300 mm



ART No	mm / inch	mm / inch	mm	max. mm			ø mm	KG	ART No CC
20 7021	300 / 12	0.01 / 0.0005	0.01	0.05	90	45	10	0.375	20 94103
20 7022	500 / 20	0.01 / 0.0005	0.01	0.06	150	56	20	1.180	20 94105
20 7023	600 / 24	0.01 / 0.0005	0.01	0.06	150	80	20	1.255	20 94106
20 7024	1000 / 40	0.01 / 0.0005	0.01	0.08	200	67	20	2.400	20 94110
20 7025*	1500 / 60	0.01 / 0.0005	0.01	0.12	200	80	20	3.100	20 94115
20 7026*	2000 / 80	0.01 / 0.0005	0.01	0.14	200	80	20	3.400	20 94120
20 7121	300 / 12	0.01 / 0.0005	0.01	0.05	90	-	10	0.375	20 94103
20 7122	500 / 20	0.01 / 0.0005	0.01	0.06	150	-	20	1.180	20 94105
20 7123	600 / 24	0.01 / 0.0005	0.01	0.06	150	-	20	1.255	20 94106
20 7124	1000 / 40	0.01 / 0.0005	0.01	0.08	200	-	20	2.400	20 94110
20 7125*	1500 / 60	0.01 / 0.0005	0.01	0.12	200	-	20	3.100	20 94115
20 7126*	2000 / 80	0.01 / 0.0005	0.01	0.14	200	-	20	3.400	20 94120

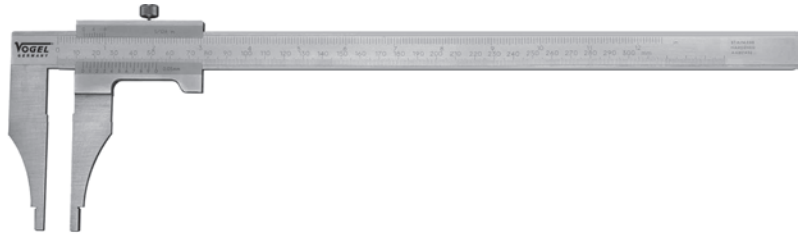
Precision Workshop Calipers

BLUE-LINE® Workshop Caliper
DIN 862

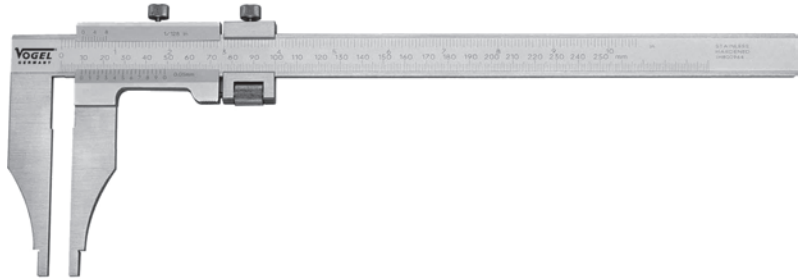
• for standard workshop purpose

- 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 or without knife points
- with fixing screw
- mono block vernier

ART N° 20 3203



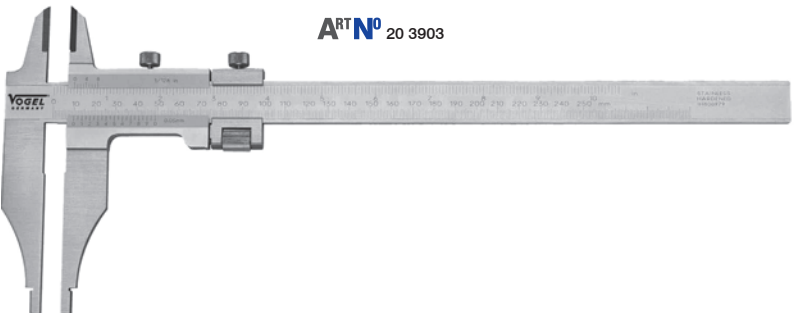
ART N° 20 3803



ART N° 20 3303



ART N° 20 3903



ART N°	ART N°	mm / inch	mm bottom	mm top	mm	mm	ø mm	KG	ART N° CC
20 3201	20 3801	200 / 8	0.05	1/128	65	-	10	0.310	20 94020
20 3202	20 3802	250 / 10	0.05	1/128	80	-	10	0.385	20 94025
20 3203	20 3803	300 / 12	0.05	1/128	100	-	10	0.390	20 94030
20 3204	20 3804	400 / 16	0.05	1/128	100	-	20	0.455	20 94040
20 3205	20 3805	500 / 20	0.05	1/128	150	-	20	0.530	20 94050
with knife points									
20 3301	20 3901	200 / 8	0.05	1/128	65	32	10	0.310	20 94020
20 3302	20 3902	250 / 10	0.05	1/128	80	32	10	0.385	20 94025
20 3303	20 3903	300 / 12	0.05	1/128	100	32	10	0.390	20 94030
20 3304	20 3904	400 / 16	0.05	1/128	100	32	20	0.455	20 94040
20 3305	20 3905	500 / 20	0.05	1/128	150	67	20	0.530	20 94050
-	20 4901	200 / 8	0.02	1/1000	65	32	10	0.310	20 94020
-	20 4902	250 / 10	0.02	1/1000	80	32	10	0.385	20 94025
-	20 4903	300 / 12	0.02	1/1000	100	32	10	0.390	20 94030



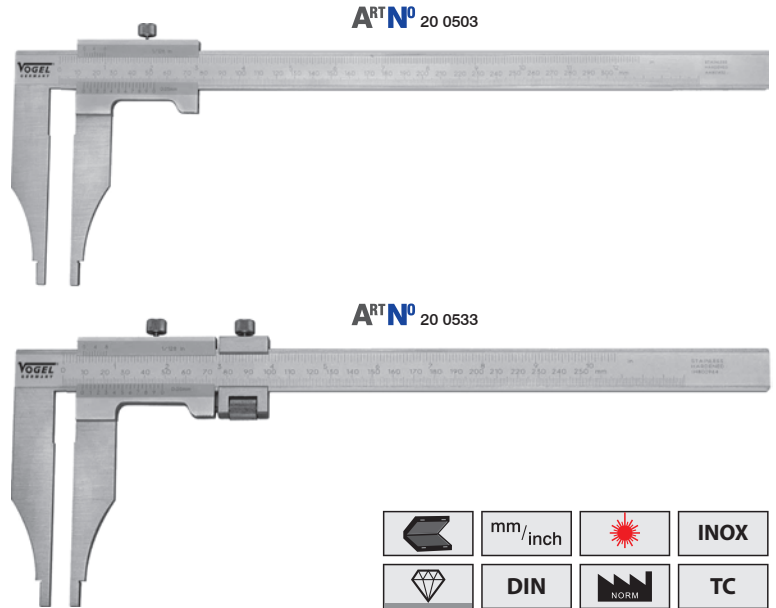
Workshop Caliper

DIN 862 or in special sizes
acc. to workshop grade

• 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
- up to 1000 mm in plastic case, other sizes in wooden case
- with identification number

Spare parts and accessories
for our calipers can be found
on page 74



		mm / inch	bottom mm	top inch					
20 0501	20 0531	200 / 8	0.05	1/128	65	-	10	0.360	20 94020
20 0502	20 0532	250 / 10	0.05	1/128	80	-	10	0.390	20 94025
20 0503	20 0533	300 / 12	0.05	1/128	100	-	10	0.415	20 94030
-	20 0533/1	300 / 12	0.05	1/128	150	-	20	0.850	20 94030
20 0504	20 0534	400 / 16	0.05	1/128	100	-	20	0.950	20 94040
20 0505	20 0535	500 / 20	0.05	1/128	150	-	20	1.495	20 94050
-	20 0535/1	500 / 20	0.05	1/128	200	-	20	1.980	20 94050
20 0505/2	20 0535/2	500 / 20	0.05	1/128	300	-	20	2.550	20 94050
20 0506	20 0536	600 / 24	0.05	1/128	150	-	20	1.655	20 94060
-	20 0536/1	600 / 24	0.05	1/128	200	-	20	2.180	20 94060
-	20 0536/2	600 / 24	0.05	1/128	300	-	20	6.315	20 94060
20 0508	20 0538	800 / 32	0.05	1/128	150	-	20	2.735	20 94080
-	20 0538/1	800 / 32	0.05	1/128	200	-	20	3.210	20 94080
-	20 0538/2	800 / 32	0.05	1/128	300	-	20	4.150	20 94080
20 0510	20 0540	1000 / 40	0.05	1/128	150	-	20	3.110	20 94100
-	20 0541	1000 / 40	0.05	1/128	200	-	20	3.350	20 94100
-	20 0542	1000 / 40	0.05	1/128	300	-	20	3.790	20 94100
-	20 0543	1000 / 40	0.05	1/128	500	-	20	4.250	20 94100
-	20 0551	1250 / 50	0.05	1/128	200	-	20	3.050	20 94100
20 0512*	20 0552*	1500 / 60	0.05	1/128	200	-	20	3.550	20 94150
-	20 0552/1*	1500 / 60	0.05	1/128	300	-	20	4.100	20 94150
20 0513*	20 0553*	2000 / 80	0.05	1/128	200	-	20	7.000	20 94200
-	20 0553/1*	2000 / 80	0.05	1/128	300	-	20	7.500	20 94200
20 0514*	20 0554*	2500 / 100	0.05	1/128	200	-	20	9.100	20 94250
20 0515*	20 0555*	3000 / 120	0.05	1/128	200	-	20	12.550	20 94300
-	20 0555/1*	3000 / 120	0.05	1/128	300	-	20	13.000	20 94300

Workshop Calipers

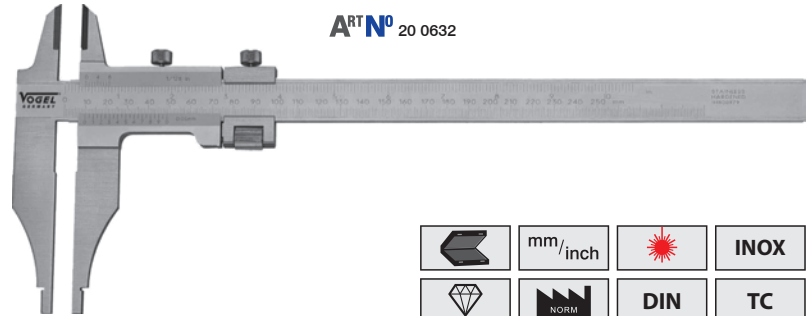
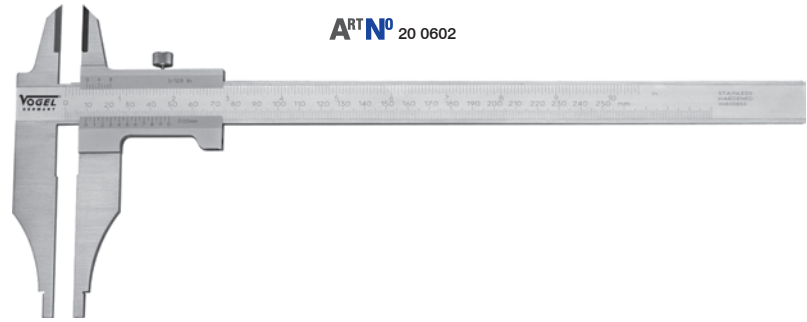


Workshop Caliper

DIN 862 or in special sizes
acc. to workshop grade











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
- up to 1000 mm in plastic case, other sizes in wooden case



Spare parts and accessories
for our calipers can be found
on page 74

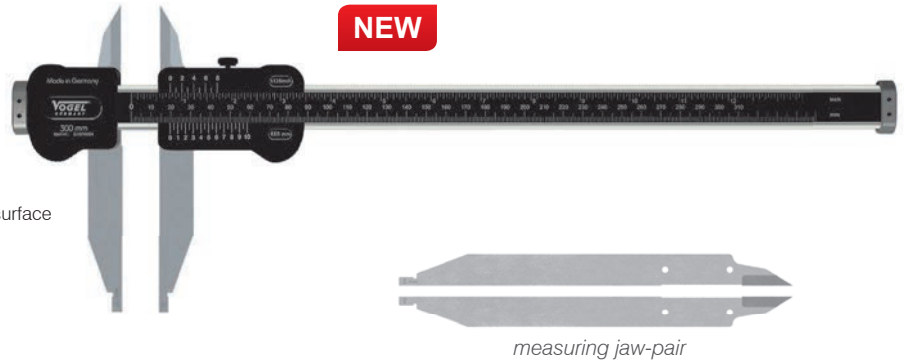


									
20 0601	20 0631	200 / 8	0.05	1/128	65	32	10	0.365	20 94020
20 0602	20 0632	250 / 10	0.05	1/128	80	32	10	0.400	20 94025
20 0603	20 0633	300 / 12	0.05	1/128	100	32	10	0.425	20 94030
20 0604	20 0634	400 / 16	0.05	1/128	100	32	20	0.880	20 94040
20 0605	20 0635	500 / 20	0.05	1/128	150	67	20	1.540	20 94050
20 0606	20 0636	600 / 24	0.05	1/128	150	67	20	1.600	20 94060
20 0608	20 0638	800 / 32	0.05	1/128	150	67	20	2.760	20 94080
20 0610	20 0640	1000 / 40	0.05	1/128	150	67	20	3.260	20 94100
20 0612*	20 0652*	1500 / 60	0.05	1/128	200	80	20	3.400	20 94150
20 0613*	20 0653*	2000 / 80	0.05	1/128	200	80	20	7.120	20 94200
20 0614*	20 0654*	2500 / 100	0.05	1/128	200	80	20	9.150	20 94250
20 0615*	20 0655*	3000 / 120	0.05	1/128	200	80	20	9.460	20 94300
20 0616*	20 0656*	3000 / 120	0.05	1/128	300	80	20	9.650	20 94300
20 0617*	20 0657*	3500 / 140	0.05	1/128	200	80	20	11.000	20 94350
20 0618*	20 0658*	3500 / 140	0.05	1/128	300	80	20	11.200	20 94350

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★★★★★
SILVER-LINE® Workshop Caliper
 DIN 862

- parallaxfree finished, with flat vernier
- with exchangeable jaws
- modern design, lightweight model, made of anodized hard aluminium
- stainless, hardened measuring jaws and tips
- jaws finely ground
- good contrast scaling because of white on black surface
- reading in mm and inch
- slides perfectly because of double-prismatic-lead
- rail and housing made of anodized aluminium
- with operation manual



Options

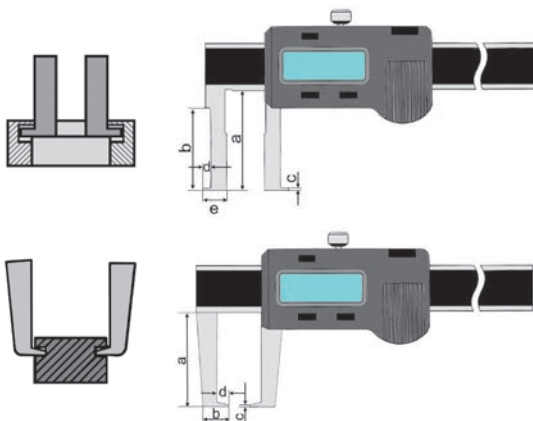
- art. no. 20 0890 measuring jaw-pair, jaw length 90 mm, exchangeable
- art. no. 20 0891 measuring jaw-pair, jaw length 125 mm, exchangeable
- art. no. 20 0892 measuring jaw-pair, jaw length 150 mm, exchangeable



ART NO	mm / inch	mm bottom	inch top	mm	mm	ø mm	KG	ART NO CC
20 0831	300 / 12	0,05	1/128	90	40	10	0.500	20 94030
20 0832	500 / 20	0,05	1/128	90	40	10	0.600	20 94050
20 0833	700 / 28	0,05	1/128	90	40	10	0.700	20 94080
20 0834	900 / 36	0,05	1/128	90	40	10	0.800	20 94100

★★★★★
DIGI PLUS-LINE® Digital Caliper
 for Inside or Outside Grooves

- art. no. 20 1078 - 20 1081 for inside groove measuring
- art. no. 20 1090 - 20 1093 for outside groove measuring
- stainless steel, hardened
- LCD display with clear reading
- zero setting at any position, with fixing screw
- mm/inch switchable
- incl. 1x 1.5 V battery (type LR44, art.-no.: 20 20192/B), with operation manual

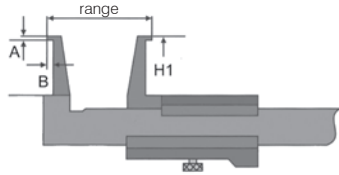


ART NO	type	mm / inch	mm / inch	mm	max mm	A mm	B mm	C mm	D mm	KG
20 1078	inside	22 - 150 / 0.8 - 6.0	0.01 / 0.0005	0.01	0.04	36	30	1.0	5	0.170
20 1079	inside	25 - 200 / 1.0 - 8.0	0.01 / 0.0005	0.01	0.04	46	46	1.0	5	0.200
20 1080	inside	30 - 300 / 1.2 - 12	0.01 / 0.0005	0.01	0.05	56	56	1.5	5	0.225
20 1081	inside	40 - 500 / 1.6 - 20	0.01 / 0.0005	0.01	0.06	100	100	1.5	5	0.410
20 1090	outside	0 - 150 / 0 - 6	0.01 / 0.0005	0.01	0.03	40	15	1.0	5	0.170
20 1091	outside	0 - 200 / 0 - 8	0.01 / 0.0005	0.01	0.04	50	19	1.0	7	0.200
20 1092	outside	0 - 300 / 0 - 12	0.01 / 0.0005	0.01	0.04	60	21	1.5	8	0.225
20 1093	outside	0 - 500 / 0 - 20	0.01 / 0.0005	0.01	0.06	100	34	2.0	12	0.410

Groove Calipers

★★★★★ BLUE-LINE® Groove Caliper

- to measure groove dimensions
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- with fixing screw



ART NO	mm	mm	A mm	B mm	H1 mm	KG	ART NO CC
20 1075	10 - 160	0.05	0.9	3.0	25	0.160	20 94075
20 1076	20 - 160	0.05	2.0	5.0	40	0.210	20 94075
20 1077	26 - 200	0.05	3.0	7.0	60	0.295	20 94075
20 1085	30 - 250	0.05	4.0	8.5	80	0.350	20 94075
20 1086	35 - 300	0.05	5.0	10.0	105	0.500	20 94075

★★★★★ DIGI PLUS-LINE® Electr. Digital Universal Caliper

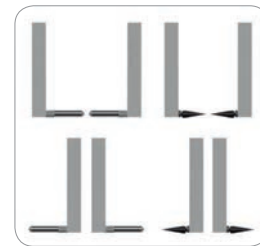
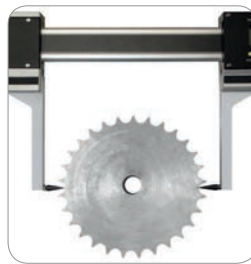
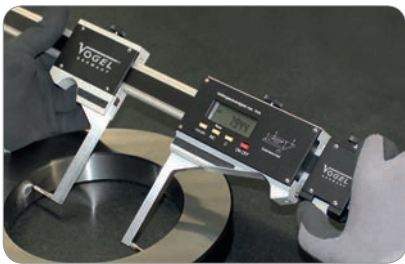
workshop grade

NEW

- a handy, lightweight measuring instrument
- for internal and external measurements
- with exchangeable probes
- modern design, lightweight model, made of anodized hard aluminium
- LCD with clear reading
- mm/inch switchable
- with fine adjustment
- slides perfectly because of double-prismatic-lead
- rail and electronic housing made of anodized aluminium
- probe shaft with M 2.5 thread
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



internal and external measurements



ART NO	mm / inch	mm / inch	mm	max mm	mm	KG
20 0990	0.01 / 0.0005	250 / 10	0.01	0.04	100	1.000
20 0991	0.01 / 0.0005	350 / 14	0.01	0.04	100	1.100
20 0992	0.01 / 0.0005	450 / 18	0.01	0.05	100	1.200
20 0993	0.01 / 0.0005	650 / 26	0.01	0.05	100	1.300



Calibration

is the comparison of actual measurements of a measuring instrument. The study conducted at a measuring device calibration enables the documentation of the deviation of a measurement from standard. It will improve the measurement accuracy and the review of the technical data.

In the laboratory of the company creates Vogel Germany Calibration Certificates and test reports and provides with the re-calibration of measuring instruments as well as for the test equipment monitoring.

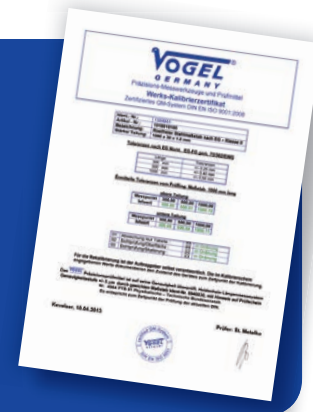


Why calibrate

- increase the quality level, for example in the production and in the service sector
- prevent hazards due to inaccurate readings
- guarantees traceable readings and increases safety
- ensures acceptance of test- and inspection reports

In the Service Scope of the company are included:

- cleaning and degreasing of customer's measurement equipment
- repair and adjustment
- calibration according to applicable standards
- creating a clear and compliant audit trails, test- and inspection reports
- attachment of calibration stickers with punctual re-calibration
- preservation of measuring equipment – also for overseas transportation
- inhouse workshop calibration
- marking of all kind of equipment by laser engraving



Measuring Tool Sets

BLUE-LINE® DIGI PLUS-LINE® Measuring Tool Set

- selection of need-based compilations

ART NO SET	pieces	consisting of	article	box type
20 9904 ★★★★☆	4	Precision Vernier Caliper • 150 x 0.05 mm • stainless • hardened	20 1021	
		Micrometer • 0-25 mm x 0.01 mm • with carbide surfaces	23 1351	
		Dial Indicator • 0-10 mm x 0.01 mm • metal housing, matt chrome finish	24 1101	
		Stainless Steel Rule • 150 x 18 x 0.5 mm • stainless • graduation 1/2 mm / mm	10 12020015	
33 0002 ★★★★☆	9	Electr. Digital Caliper stainless steel, 150 x 0.01 mm / 6 x 0.0005"	20 2011.2	
		Marking Gauge stainless steel, 200 x 0,1 mm, hardened carbide scriber	33 5070	
		Digital Angle Sensor „Level Box“ +/- 180 x 0.1°	32 0010	
		Digital Protractor 0-360 x 0.05°, 200 x 200 mm	32 0021	
		Workshop Square with back special steel, 100 x 70 mm	31 2473	
		Carbide Marker with clip, exchangeable tips, push technic	33 4615	
		Pocket Measuring Tape 3 meter, self adjusting end-hook, with magnetic dots and lanyard	14 1003	
		Radius Gauge Set 1-15 mm	47 2108	
		Wood Folding Rule white, 2 meter, 10 links	13 12010200	
20 2090 ★★★★☆	3	Digital Caliper • 200 x 0.01 mm • mm / inch • stainless • hardened	20 2012.2	
		Measuring Bridge • 75 mm • stainless • hardened	20 02092	
		Stainless Steel Rule • 150 x 18 x 0.5 mm • stainless • graduation 1/2 mm / mm	10 12020015	
20 2091 ★★★★☆	3	Digital Caliper • 150 x 0.01 mm • mm / inch • stainless • hardened	20 2011.2	
		Measuring Bridge • 75 mm • stainless • hardened	20 02092	
		Stainless Steel Rule • 150 x 13 x 0.5 mm • stainless • graduation mm/mm	10 10010015	

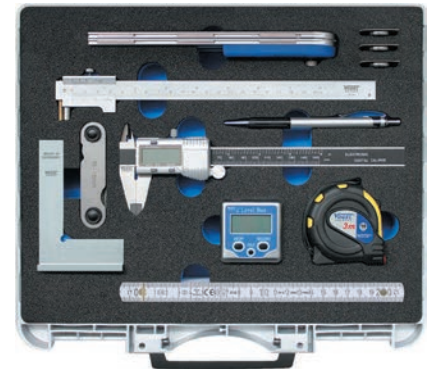
ART NO 20 9904

NEW



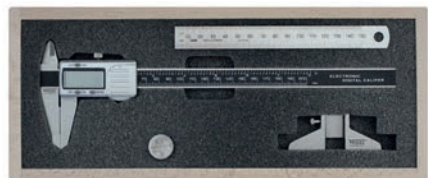
ART NO 33 0002

NEW



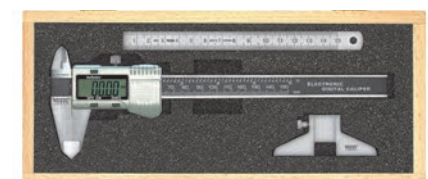
ART NO 20 2090

NEW



ART NO 20 2091

NEW



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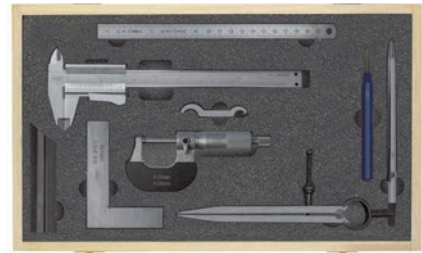
Other combinations available on request, please!

ART NO SET	pieces	consisting of	article	box type
23 9900 ★★★★☆	2	Precision Vernier Caliper • 150 x 0.05 mm • stainless • hardened	20 1020.2	
		Micrometer • 0-25 mm x 0.01 mm • with carbide surfaces	23 1351	




ART NO 23 9900

ART NO SET	pieces	consisting of	article	box type
23 9908 ★★★★☆	8	Precision Vernier Caliper • 150 x 0.05 mm • mm / inch • stainless • hardened	20 1020.2	
		Micrometer • 0-25 mm x 0.01 mm • with carbide surfaces	23 1351	
		Flat Square, DIN 875/2 • 100 x 70 mm	31 0062	
		Knife straight edge, bevelled edge • 100 mm	31 0323	
		Spring Divider • 125 mm	30 2421	
		Carbide Steel Scriber • 150 mm	33 4608	
		Stainless Steel Rule • 200 x 13 x 0.5 mm • stainless • graduation mm/mm	10 10010020	
		Center Punch • 120 x ø 10 mm	23 9999	




ART NO 23 9908

ART NO SET	pieces	consisting of	article	box type
23 9909 ★★★★☆	4	Digital Caliper stainless, 150x0.01 mm / 6 x 0.0005"	20 2160	
		Micrometer • 0-25 mm x 0.01 mm • with carbide surfaces	23 1351	
		Dial Indicator • 0-10 mm x 0.01 mm • metal housing, matt chrome finish	24 1101	
		Stainless Steel Rule • 150 x 18 x 0.5 mm • stainless • graduation 1/2 mm / mm	10 12020015	



ART NO 23 9909

NEW

ART NO SET	pieces	consisting of	article	box type
23 9911 ★★★★☆	4	Vernier Caliper • 150 x 0.05 mm • stainless • hardened	20 1000	
		Micrometer • 0-25 mm x 0.01 mm • with carbide surfaces	23 1300	
		Square, bevelled edge • 100 x 70 mm • chromed	31 02131	
		Stainless Steel Rule • 150 x 18 x 0.5 mm • stainless • graduation mm/inch	11 1001	



ART NO 23 9911

Measuring Tool Sets

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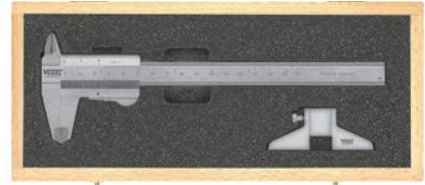
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ART ^{NO} SET	pieces	consisting of	article	box type
20 2096 ★★★★☆	2	Precision Vernier Caliper • 150 x 0.05 mm • stainless • hardened	20 1021	
		Measuring Bridge • 75 mm • stainless • hardened	20 02092	

ART^{NO} 20 2096



ART ^{NO} SET	pieces	consisting of	article	box type
20 2097 ★★★★☆	3	Digital Caliper stainless, 150x0.01 mm / 6 x 0.0005"	20 2160	
		Digital Micrometer • 0-25 mm x 0.001 mm • with USB data output, with carbide surfaces	23 0130	
		Flat Square, DIN 875/2 • 100 x 70 mm	31 0062	

ART^{NO} 20 2097

NEW



ART ^{NO} SET	pieces	consisting of	article	box type
47 9901 ★★★★☆	4	Welding Gauge stainless steel, fan shape, quantity of blades 12, 3-12 mm	47 4401	
		Precision Welding Gauge stainless steel, hardened and fine ground, with vernier reading, scale matt chromed, with fixing screw	47 4403	
		Precision Welding Gauge stainless steel, hardened and fine ground, reading through a window by a reference line	47 4404	
		Pipe Welding Gauge / Edge Offset Gauge with opposite movable measuring jaws, for pipe welds up to 35 mm wall thickness, stainless, hardened, reading 1.0 mm	47 4409	

ART^{NO} 47 9901


NEW




Explore our website!




Any questions?
We are pleased to advise!

ART N° SET	pieces	consisting of	article	box type
47 9904 ★★★★☆	4	Magnet Lifter top model for technical purposes, with quick release, with telescope bar, ~650 mm	47 4441	
		Professional Inspection Mirror stainless steel telescope bar, with 360° rotateable and swivel joint, with insulated handle	47 4454	
		LED Handheld Magnifier aplanatic lense, scratch-resistant and solvent-resistant, size of lense ø 30 mm, magnification 10x	60 0166	
		LED Flashlight professional, splash-proof light, sturdy, acid-proof aluminium housing, 3 Watt, 120 Lumen, beam range 120 m	60 1805	



ART N° SET	pieces	consisting of	article	box type
47 9905 ★★★★☆	5	Magnifier with LED Lamp in pocket size, with 3 magnifying lenses, 3x / 5x / 7x, with one extra bright LED lamp, in a rugged ABS-plastic housing	60 1230	
		Magnetic Lifter with Marking Tip with telescopic rod, 143 mm	33 4614	
		Jet Gauge, 0.45 - 1.50 mm with hardened steel pins, in plastic holders mounted	47 2201	
		Feeler Gauge Set, 13 blades blades made of hardened spring steel, conical shaped blades, length 100 mm, nickel plated case, with lock nut, sizes in mm and inch on each blade, 0.05 - 1.00 mm	41 1005	
		LED Flashlight professional, water resistant torch, sturdy, acid- and oil-resistant aluminium housing, 3 Watt, 120 luminous flux, lighting range 120 m	60 1805	



ART N° SET	pieces	consisting of	article	box type
50 9901 ★★★★☆	5	Carpenter's Try Square with steel blade and elocated aluminium handle, 300 mm	50 4064	
		Bevel Square carbon steel blade, with angle graduation on the handle, 250 mm	50 4853	
		Digital Angle Measurer Spirit Level sturdy, anodized aluminum housing with adjustable spirit level, 0° - 360°, 305 x 52 x 23	71 1025	
		Carpenter's Pencil 175 mm, red, unsharpened	50 9910	
		Wood Folding Rule with double mm graduation on front and back, with 10 links, 2000 mm	13 12010200	



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Brake Disc Calipers

DIGI PLUS-LINE® Electr. Digital Brake Disc Caliper workshop grade

- fast and easy measurement of the brake disc thickness

- stainless steel, hardened
- LCD display with clear reading, digit height 9 mm
- conical, hardened knife points
- zero setting at any position, mm/inch switchable
- On/Off button, with HOLD function
- fixing screw
- incl. 2x 1.5 V battery (type LR44, art.-no. 2020192/B), with operation manual

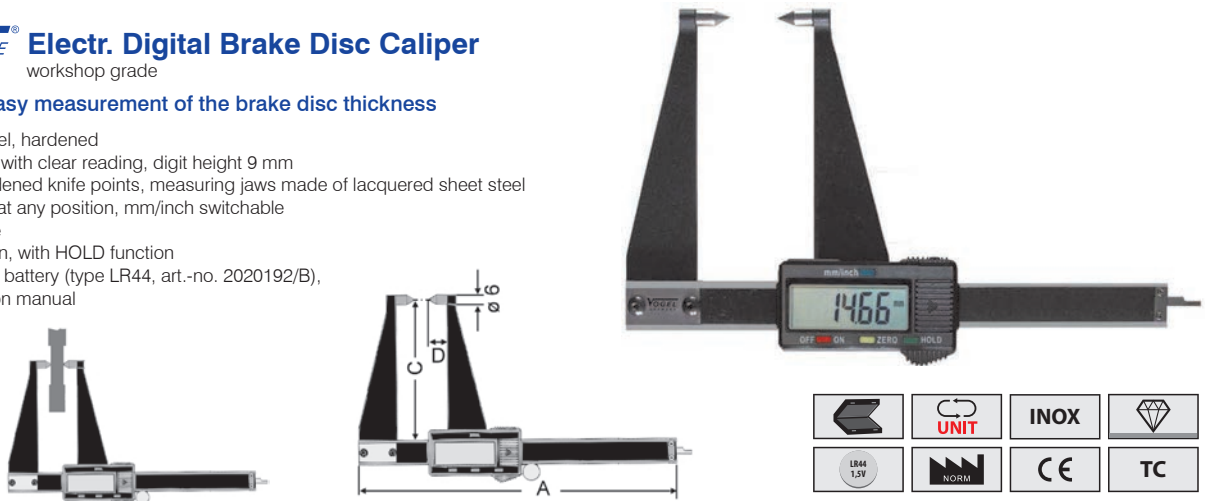


ART No	mm / inch	mm / inch	mm	max. mm	A mm	C mm	KG	ART No CC
20 6020	60 / 2.4	0.01 / 0.0005	0.01	0.04	158	50	0.165	20 94101

DIGI PLUS-LINE® Electr. Digital Brake Disc Caliper workshop grade

- fast and easy measurement of the brake disc thickness

- stainless steel, hardened
- LCD display with clear reading, digit height 9 mm
- conical, hardened knife points, measuring jaws made of lacquered sheet steel
- zero setting at any position, mm/inch switchable
- depth gauge
- On/Off button, with HOLD function
- incl. 2x 1.5 V battery (type LR44, art.-no. 2020192/B), with operation manual

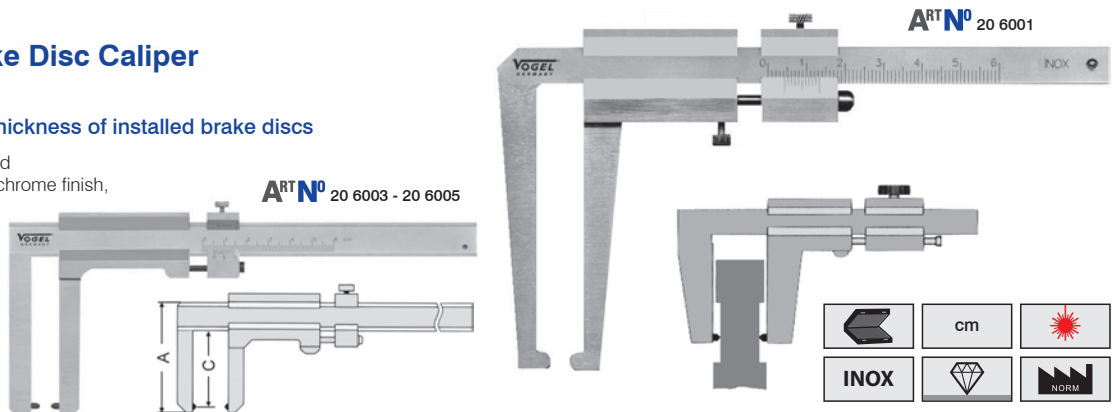


ART No	mm / inch	mm / inch	mm	max. mm	A mm	C mm	D mm	KG	ART No CC
20 6021	100 / 4	0.01 / 0.0005	0.01	0.05	208	91.5	11.5	0.165	20 94101

BLUE-LINE® Brake Disc Caliper

- with drag pointer
- for measuring the thickness of installed brake discs

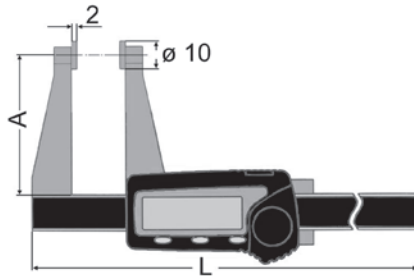
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale



ART No	mm	mm	A mm	C mm	mm	KG	ART No CC
☆☆☆☆☆ 20 6001	0 - 60	0.10	86	74	77	0.120	20 94601
☆☆☆☆☆ 20 6003	0 - 60	0.10	67	50	55	0.130	20 94601
☆☆☆☆☆ 20 6004	0 - 60	0.10	102	79	83	0.250	20 94601
☆☆☆☆☆ 20 6005	0 - 90	0.10	142	119	120	0.325	20 94601

★★★★★
DIGI PLUS-LINE® Electr. Digital Thickness Caliper
 workshop grade

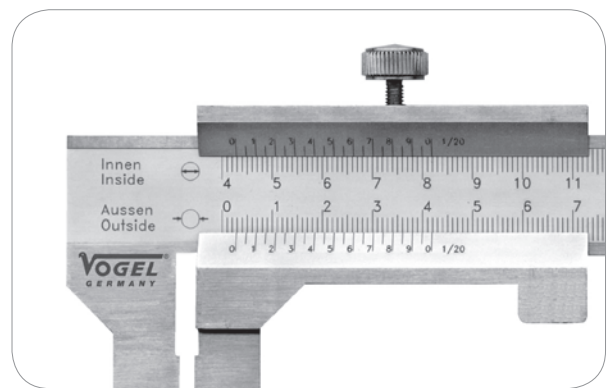
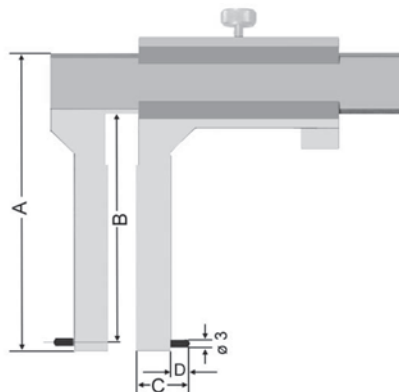
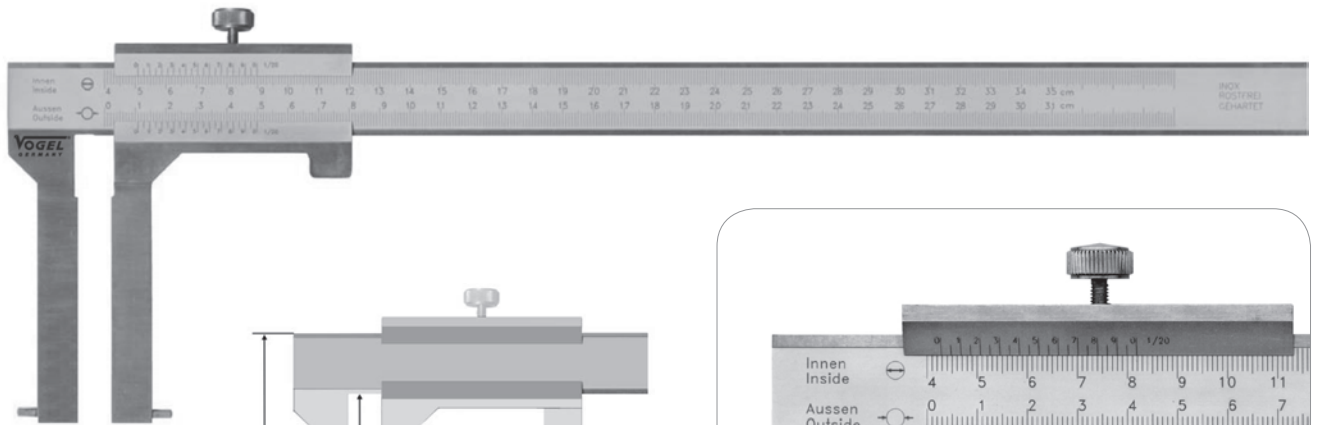
- with autom. return spring on the right measuring jaw
- stainless steel, hardened
- LCD display with clear reading, digit height 9 mm
- carbide measuring jaws in disk shape
- zero setting at any position, mm/inch switchable
- On/Off button, with HOLD function
- with fixing screw
- incl. 2x 1.5 V battery (type LR44, art.-no.: 20 20192/B), with operation manual



ART NO	mm / inch	mm / inch	mm	max. mm	A mm	L mm	KG	ART NO CC
20 6015	50 / 2	0.01 / 0.0005	0.01	0.04	50	140	0.135	20 94101

★★★★★
BLUE-LINE® Brake Drum Caliper
 workshop grade

- for measuring internal and external diameters
- stainless steel, hardened
- scale and vernier satin chrome finish, laser engraved scale
- with fixing screw



ART NO	inside mm	outside mm	mm	mm	A mm	B mm	C mm	D mm	KG	ART NO CC
20 5203	40 - 300	0 - 300	0.05	93	116	90	20	7	0.500	20 94030
20 5206	50 - 500	0 - 500	0.05	153	177	150	25	9	1.200	20 94050
20 5207	50 - 600	0 - 600	0.05	153	177	150	25	9	1.380	20 94060

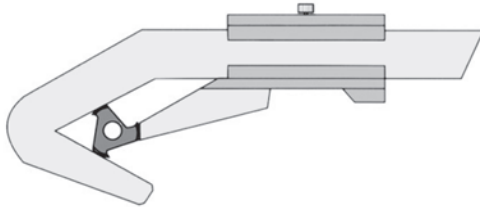
Special Calipers

★★★★★ BLUE-LINE® Vernier Caliper for 3/5-Point-Measurements

ART N° 20 1070

• for measuring diameters of side-mills

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



ART N° 3-point	ART N° 5-point	mm / inch	mm bottom	inch top	KG	ART N° CC
20 1070	-	4 - 40 / 0.16 - 1.60	0.05	1/128	0.180	20 94070
-	20 1071	2 - 40 / 0.08 - 1.60	0.05	1/128	0.180	20 94070

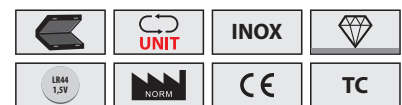
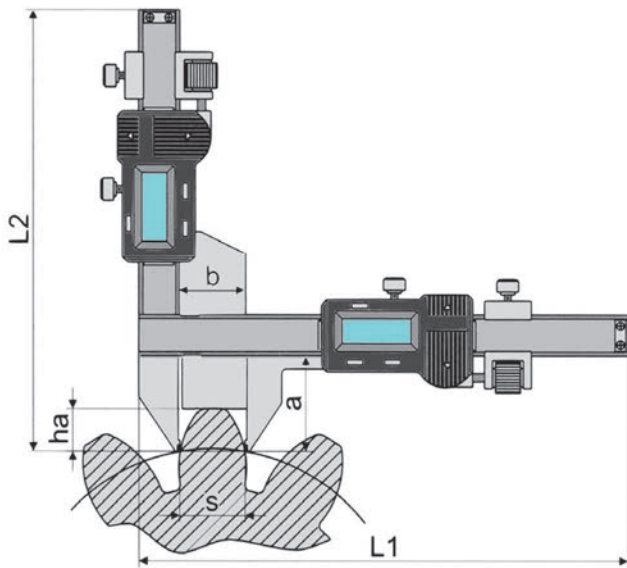
★★★★★ DIGI PLUS-LINE® Electr. Digital Gear Teeth Caliper

workshop grade

ART N° 20 2302

• to measure the gear teeth at front-and helical gears, etc.

- stainless steel, hardened
- LCD display with clear reading
- carbide jaws, finely ground
- with fixing screw and fine adjustment on both sides
- On/Off button, zero setting at any position
- mm/inch switchable
- incl. 1x 1.5 V battery (type LR44, art.-no.: 20 20192/B), with operation manual

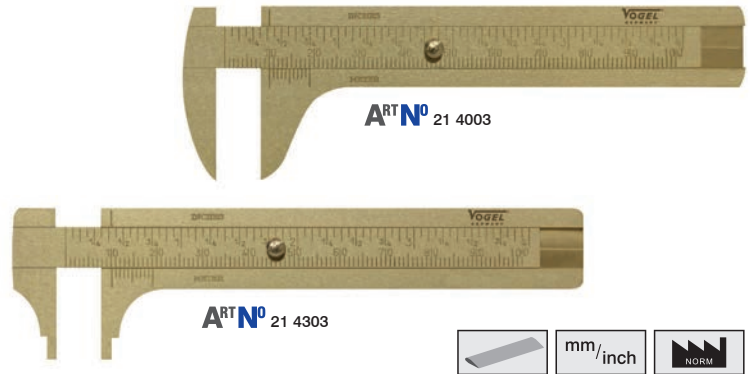


ART N°	modules	mm / inch	mm	max. mm	L1 mm	L2 mm	a mm	b mm	KG	ART N° CC
20 2301	m 1-25	0.01 / 0.0005	0.01	0.03	156	156	30.5	21	0.170	20 94103
20 2302	m 5-50	0.01 / 0.0005	0.01	0.03	210	185.5	50.5	50.5	0.215	20 94103

Brass Button Gauges and Tread Depth Gauges

★★★★★ BLUE-LINE® Brass Button Gauge

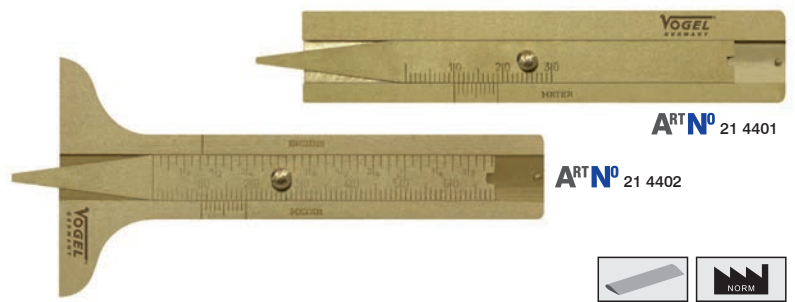
- especially for advertising and promotion
- made of hard brass
- surface finely ground
- with dove-tail guiding, vernier reading
- promotional engraving possible on the front or rear



ART No round jaws	ART No with inside measurement	 mm / inch	 mm	 mm	 KG
21 4001	21 4301	80 / 3	0.10	25 (21 4001) 20 (21 4301)	0.050
21 4003	21 4303	100 / 4	0.10	25 (21 4003) 20 (21 4303)	0.055

★★★★★ BLUE-LINE® Brass Tread Depth Gauge

- especially for advertising and promotion
- surface finely ground
- with dove-tail guiding, vernier reading
- promotional engraving possible on the front or rear



ART No round jaw	 mm / inch	 mm	 mm	 KG
21 4401	30 / -	0.10	20	0.042
21 4402	60 / 2.4	0.10	50	0.045

Individually laser engraved articles!

We engrave special scales, trademarks, pictures, drawings, etc. according to your specifications.

Laser marking is particularly suitable for permanent, tamperproof engravings..

Thanks to our unique flexibility we can offer to our customers favourable prices for marking single pieces as well as for mass production.



Laser engraving is possible on:

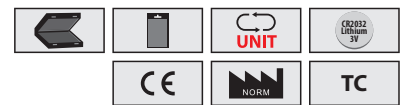
- steel, high-grade steel
- cast iron
- non-ferrous metals
- plastic
- self-adhesive foils

**Any questions?
We are pleased to advise!**

Digital Tread Depth Gauges and Tire Pressure Gauges

DIGI PLUS-LINE® Electr. Digital Tread Depth Gauge

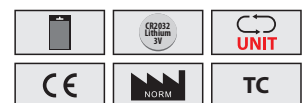
- large LCD display, digit height 9.5 mm
- On/Off button, zero setting at any position
- mm/inch switchable
- with hold function (for art.-no. 21 4446)
- measuring tip with automatic. spring feed (for art.-no. 21 4446)
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



ART No	mm / inch	mm / inch	mm	mm	KG
★★★★★ 21 4442	0 - 25 / 0 - 1	0.01 / 0.0005	0.03	60.0	0.040
★★★★★ 21 4445	0 - 25 / 0 - 1	0.01 / 0.0005	0.03	45.0	0.040
★★★★★ 21 4446	0 - 25 / 0 - 1	0.01 / 0.0005	0.03	53.0	0.050

DIGI PLUS-LINE® 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.: 20 02093) with operation manual



ART No	for cars	PSI	Bar / Kg/cm ²	Kpa	%	KG
21 4460	✓	0 - 100	0 - 7 / 0 - 7	0 - 700	1 %	0.036

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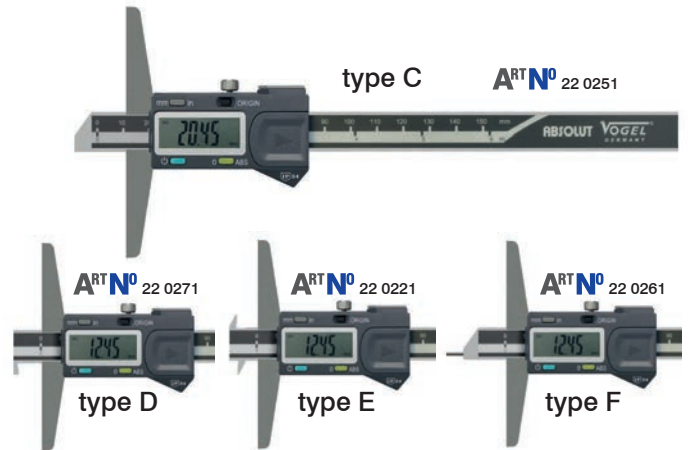
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"Absolute" Electr. Digital Depth Caliper • IP54 DIN 862

- top model for industry purposes
- with glass rail for more accuracy
- spray water proof acc. to DIN 40050 / IEC 60529
- with **VOCOM-S** duo data output (connectivity also for Digimatic measuring devices)
- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 9 mm digit height
- surface finely ground and lapped, with fixing screw
- On/Off button, with „ORIGIN“ system
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



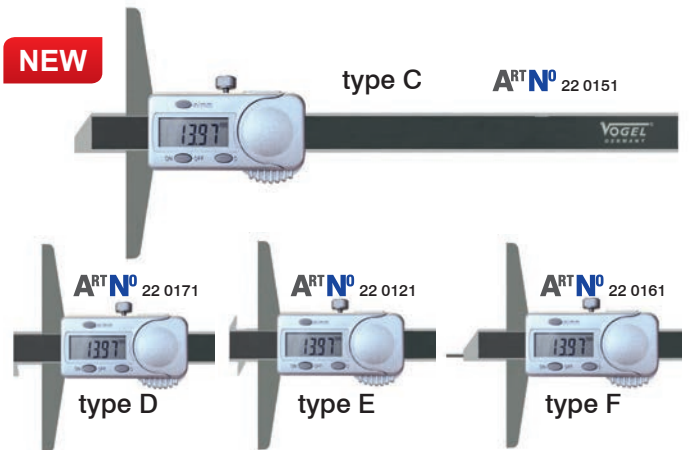
ART NO	type	mm / inch	mm / inch	max. mm	mm	type / size of measuring surface mm	KG	ART NO CC
22 0251	C	150 / 6	0.01 / 0.0005	0.02	100	5.5	0.175	22 94101
22 0252		200 / 8	0.01 / 0.0005	0.03	100	5.5	0.215	22 94101
22 0253		300 / 12	0.01 / 0.0005	0.03	150	5.5	0.280	22 94101
22 0221	E	150 / 6	0.01 / 0.0005	0.02	100	20.5 x 6.0/3.5	0.175	22 94101
22 0222		200 / 8	0.01 / 0.0005	0.03	100	20.5 x 6.0/3.5	0.215	22 94101
22 0223		300 / 12	0.01 / 0.0005	0.03	150	20.5 x 6.0/3.5	0.280	22 94101
22 0261	F	150 / 6	0.01 / 0.0005	0.02	100	∅ 1.5 / 7	0.175	22 94101
22 0262		200 / 8	0.01 / 0.0005	0.03	100	∅ 1.5 / 7	0.215	22 94101
22 0263		300 / 12	0.01 / 0.0005	0.03	150	∅ 1.5 / 7	0.280	22 94101
22 0271	D	150 / 6	0.01 / 0.0005	0.02	100	6 / 3.5	0.175	22 94101
22 0272		200 / 8	0.01 / 0.0005	0.03	100	6 / 3.5	0.215	22 94101
22 0273		300 / 12	0.01 / 0.0005	0.03	150	7 / 3.5	0.280	22 94101



Electr. Digital Depth Caliper • IP54 DIN 862

NEW

- Standard model for industry and craft
- with glass rail for more accuracy
- spray water proof acc. to DIN 40050 / IEC 60529
- sturdy quality, stainless steel, hardened
- large LCD display with clear reading, 9 mm digit height
- stainless, hardened, with fixing screw
- On/Off button
- mm/inch switchable
- zero setting at any position
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual

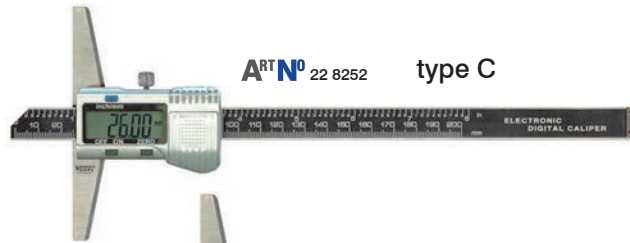


ART NO	type	mm / inch	mm / inch	max. mm	mm	type / size of measuring surface mm	KG	ART NO CC
22 0151	C	150 / 6	0.01 / 0.0005	0.02	100	5.5	0.175	22 94101
22 0152		200 / 8	0.01 / 0.0005	0.03	100	5.5	0.215	22 94101
22 0153		300 / 12	0.01 / 0.0005	0.03	150	5.5	0.280	22 94101
22 0121	E	150 / 6	0.01 / 0.0005	0.02	100	20.5 x 6.0/3.5	0.175	22 94101
22 0122		200 / 8	0.01 / 0.0005	0.03	100	20.5 x 6.0/3.5	0.215	22 94101
22 0123		300 / 12	0.01 / 0.0005	0.03	150	20.5 x 6.0/3.5	0.280	22 94101
22 0161	F	150 / 6	0.01 / 0.0005	0.02	100	∅ 1.5 / 7	0.175	22 94101
22 0162		200 / 8	0.01 / 0.0005	0.03	100	∅ 1.5 / 7	0.215	22 94101
22 0163		300 / 12	0.01 / 0.0005	0.03	150	∅ 1.5 / 7	0.280	22 94101
22 0171	D	150 / 6	0.01 / 0.0005	0.02	100	6 / 3.5	0.175	22 94101
22 0172		200 / 8	0.01 / 0.0005	0.03	100	6 / 3.5	0.215	22 94101
22 0173		300 / 12	0.01 / 0.0005	0.03	150	7 / 3.5	0.280	22 94101

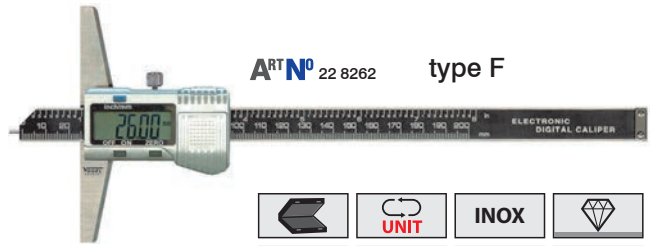
Digital Depth Calipers

DIGI PLUS-LINE® Electr. Digital Depth Caliper DIN 862

- with plastic housing cover
- stainless steel, hardened, measuring surface finely ground
- with fixing screw
- large LCD display with clear reading, digit height 10 mm
- On/Off button, zero setting at any position
- mm / inch switchable
- incl. 1x 3 V battery (type CR2032, art.-no.: 20 02093), with operation manual



ART N° 22 8252 type C



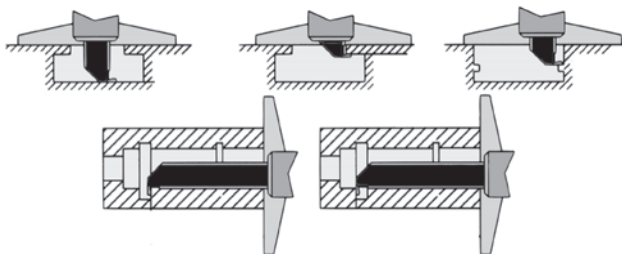
ART N° 22 8262 type F



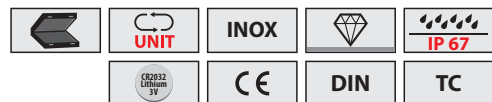
ART N°	type	mm / inch	mm / inch	max. mm	mm	type / size of measuring surface mm	KG	ART N° CC
22 8251	C	150 / 6	0.01 / 0.0005	0.03	100	6	0.215	22 94101
22 8252		200 / 8	0.01 / 0.0005	0.03	100	6	0.235	22 94101
22 8253		300 / 12	0.01 / 0.0005	0.04	100	6	0.305	22 94101
22 8255		500 / 20	0.01 / 0.0005	0.05	150	7	0.550	22 94101
22 8261	F	150 / 6	0.01 / 0.0005	0.03	100	∅ 1.5 / 7	0.215	22 94101
22 8262		200 / 8	0.01 / 0.0005	0.03	100	∅ 1.5 / 7	0.235	22 94101
22 8263		300 / 12	0.01 / 0.0005	0.04	100	∅ 1.5 / 7	0.305	22 94101
22 8265		500 / 20	0.01 / 0.0005	0.05	150	∅ 1.5 / 7	0.550	22 94101

DIGI PLUS-LINE® Electr. Digital Depth Gauge • IP67 DIN 862

- water and coolant proof acc. to DIN 40050 / IEC 60529
- with or without hook usable, hook is removeable
- stainless steel, hardened
- large LCD display with clear reading, digit height 9 mm
- with screwable 90° hook, with fixing screw
- surfaces finely ground and lapped
- On/Off button, autom. shutdown, with ABS/INC mode
- mm/inch switchable, zero setting at any position
- incl. 1x 3 V battery (type CR1632, art.-no.: 20 02193), with operation manual



for measurement of hole depth, recesses and sections



ART N°	mm / inch	mm / inch	mm	max. mm	mm	mm	KG	ART N° CC
22 1401	150 / 6	0.01 / 0.0005	0.01	0.03	100	21 x 5	0.190	20 94101
22 1402	200 / 8	0.01 / 0.0005	0.01	0.03	100	21 x 5	0.270	20 94101
22 1403	300 / 12	0.01 / 0.0005	0.01	0.03	150	21 x 5	0.390	20 94101



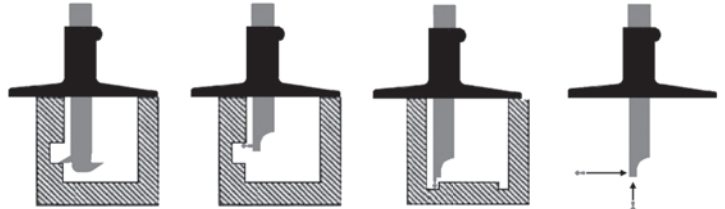
Electr. Digital Depth Gauge

workshop grade

- modern design, lightweight model
- made of anodized hard aluminium
- with exchangeable measuring tips (M2.5)
- with 3 measuring bridges with different length
- LCD display with clear reading, digit height 10 mm
- incl. hardened measuring tips with M2.5 thread, exchangeable
- On/Off button, mm/inch switchable, zero setting at any position
- slides perfectly because of double-prismatic-lead
- rail and electronic housing made of anodized aluminium
- incl. 1x 1.5 V battery (type LR44, art.-no.: 20 20192/B) with operation manual and hexagon-key

Options

- art.-no. 22 0890 measuring bridge, 150 mm, anodized aluminium
- art.-no. 22 0891 measuring bridge, 300 mm, anodized aluminium
- art.-no. 22 0892 measuring bridge, 450 mm, anodized aluminium
- other measuring tips with M2.5 thread, please follow on page 142



ART NO	mm / inch	mm / inch	mm	max. mm	mm	KG	ART NO CC
22 0880	300 / 12	0.01 / 0.0005	0.01	0.04	150 / 300 / 450	0.410	22 94870
22 0881	500 / 20	0.01 / 0.0005	0.01	0.05	150 / 300 / 450	0.505	22 94871
22 0882	800 / 32	0.01 / 0.0005	0.01	0.06	150 / 300 / 450	0.820	22 94872



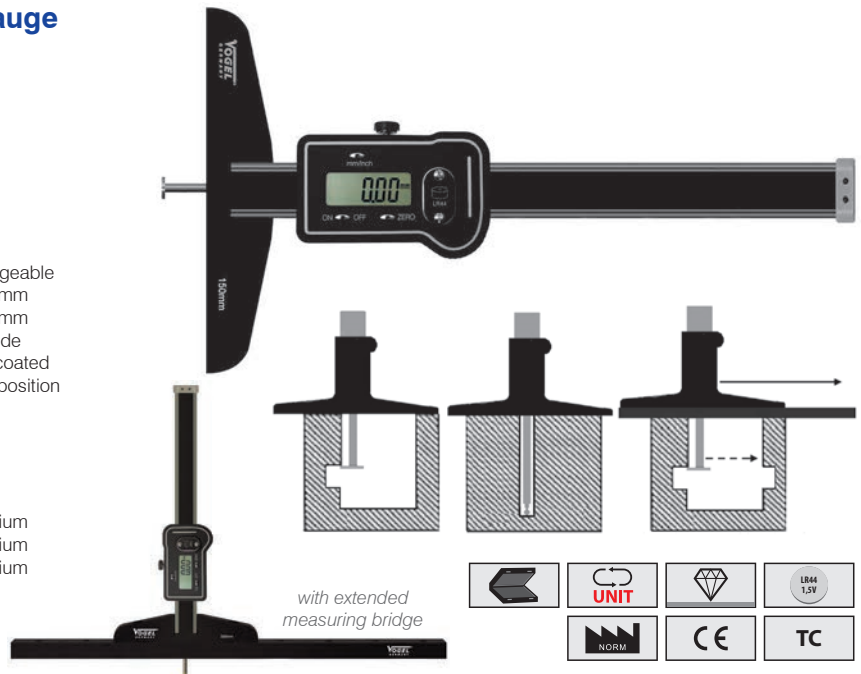
Electr. Digital Depth Gauge

workshop grade

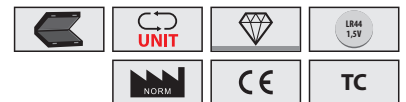
- especially for narrow bore depth
- with round depth measuring bar
- modern design, lightweight model
- made of anodized hard aluminium
- with exchangeable measuring tips (M2.5)
- with exchangeable disc inserts
- incl. 2 measuring bridges with different length
- LCD display with clear reading, digit height 10 mm
- incl. hardened measuring tips with M2.5 thread, exchangeable
- incl. plate insert with \varnothing 10 mm with measuring rods- \varnothing 4 mm
- incl. plate insert with \varnothing 20 mm with measuring rods- \varnothing 6 mm
- all sliding parts slide in plastic bearing double prism guide
- rail and electronics housing made of aluminium, oxide-coated
- On/Off button, mm/inch switchable, zero setting at any position
- incl. 1x 1.5 V battery (type LR44, art.-no.: 20 20192/B) with operation manual and hexagon-key
- further probe tips with M2.5 thread see page 142

Options

- art.-no. 22 0893 measuring bridge, 550 mm, duraluminium
- art.-no. 22 0894 measuring bridge, 750 mm, duraluminium
- art.-no. 22 0895 measuring bridge, 950 mm, duraluminium
- other measuring tips with M2.5 thread, please follow on page 142



with extended measuring bridge

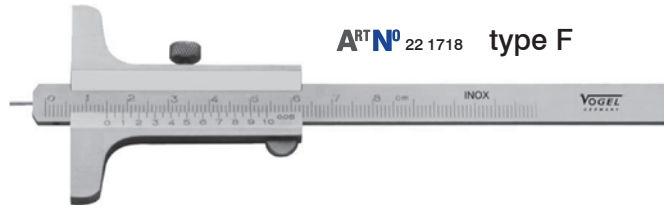


ART NO	mm / inch	mm / inch	mm	max. mm	meas.-beam- \varnothing mm	mm	KG	ART NO CC
22 0840	200 / 8	0.01 / 0.0005	0.01	0.03	4	150/350	0.355	22 94870
22 0841	300 / 12	0.01 / 0.0005	0.01	0.04	4	150/350	0.390	22 94870
22 0842	500 / 20	0.01 / 0.0005	0.01	0.05	6	150/350	0.475	22 94871
22 0843	800 / 32	0.01 / 0.0005	0.01	0.06	6	150/350	0.780	22 94872

Digital Depth Calipers

★★★★★
BLUE-LINE® Depth Caliper
 DIN 862

- 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 22 1530, type "C"
- straight and 90°-hook bar, reversible, series 22 1630, type "A"
- straight and with 2-hook bar, reversible, series 22 1830, type "B"
- exchangeable tip, reversible, series 22 1730, type "G"
- fixed tip, series 22 1718, type "F"

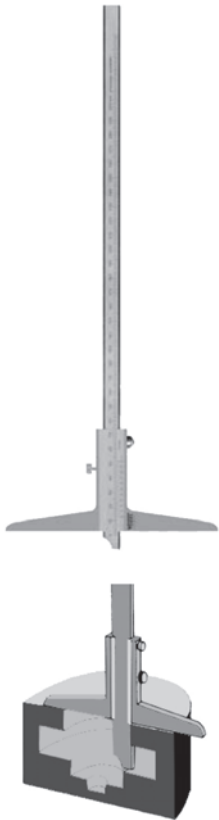


ART N° 22 1532 type C

ART N° 22 1632 type A

ART N° 22 1732 type G

ART N° 22 1832 type B



ART N° type C	ART N° type A	ART N° type B	ART N° type G	ART N° type F	mm	mm / inch	mm	KG	ART N° CC
-	-	-	-	22 1718	80	0.05	50	0.065	22 94001
22 1530	22 1630	22 1830	22 1730	-	150	0.05	100	0.100	22 94001
22 1531	22 1631	22 1831	22 1731	-	200	0.05	100	0.125	22 94001
22 1535	22 1633	-	22 1733	-	250	0.05	125	0.185	22 94001
22 1532	22 1632	22 1832	22 1732	-	300	0.05	150	0.250	22 94001
22 1533	22 1634	-	22 1734	-	400	0.05	150	0.300	22 94001
22 1534	22 1635	-	22 1735	-	500	0.05	150	0.325	22 94001
22 1536	22 1636	-	-	-	500	0.05	250	0.550	22 94001
22 1537	22 1637	-	-	-	800	0.05	250	0.780	22 94002
22 1538	22 1638	-	-	-	1000	0.05	250	0.830	22 94002

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Cleaning, Repair & Calibration

Relax, we do it for you!

Sometimes it's difficult to handle and keep going measuring tools because they are extremely sensitive. Packaging and handling them right is a hard job you have to do.

A caliper has nothing to do with a standard hand tool. – Our service team is with you whatever it takes.

Our daily business: calibrations and re-calibrations.
All kind of repairing: our team is on stand-by modus for you.

Any questions?
We are pleased to advise!



Accessories for Calipers

Vernier Caliper Cases

- for pocket vernier caliper

ART N°	ART N°	ART N°	mm
vinyl leather	leather pouch	plastic box	
20 98008	-	-	80
20 98000	20 98010	20 97010	100
20 98001	20 98015	20 97015	150
20 98002	-	20 97020	200
20 98004	-	20 97030	300



ART N° 20 98015



ART N° 20 97015



ART N° 20 97020

Wooden Boxes for Calipers

- with foam

ART N°	ART N°	mm
for pocket vernier caliper	for workshop caliper	
20 99015	-	150
20 99020	20 99320	200
-	20 99325	250
20 99030	20 99330	300
-	20 99340	400
-	20 99350	500
-	20 99360	600
-	20 99380	800
-	20 99390	1000
-	20 99392	1500
-	20 99393	2000
-	20 99394	2500
-	20 99395	3000

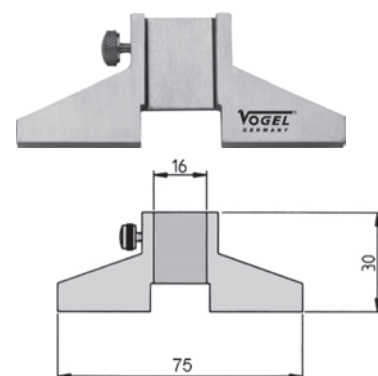


ART N° 20 99015

BLUE-LINE® Measuring Bridge

- for depth measuring
- for all pocket vernier caliper up to 200 mm
- stainless steel, hardened
- with fixing screw

ART N°	mm	KG
20 02092	75	0.050



Spare Batteries

- for Electr. Digital Measuring Instruments

ART N°	type	voltage	KG
20 02193	CR1632	3.00	0.003
20 02194	CR2016	3.00	0.003
20 02093	CR2032	3.00	0.003
20 20192/B	LR44	1.5	0.002



ART N° 20 02093

ART N° 20 02194

ART N° 20 02193

ART N° 20 20192/B

More batteries for our instruments are available in our catalogue on page 314

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Spare Part List for Electr. Digital Calipers

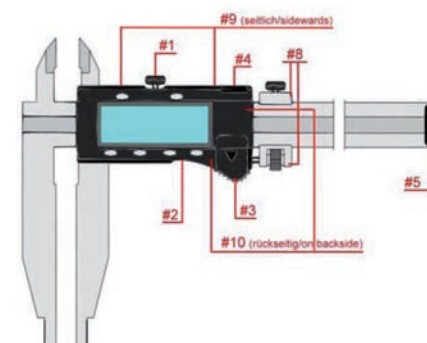
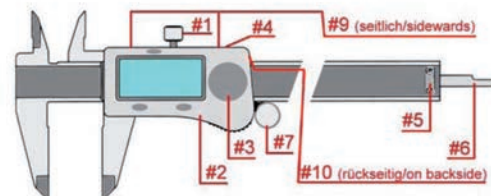
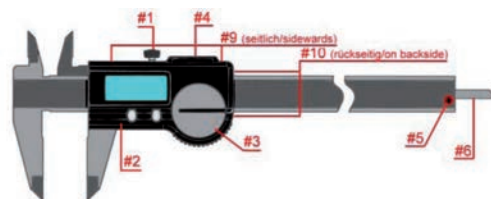
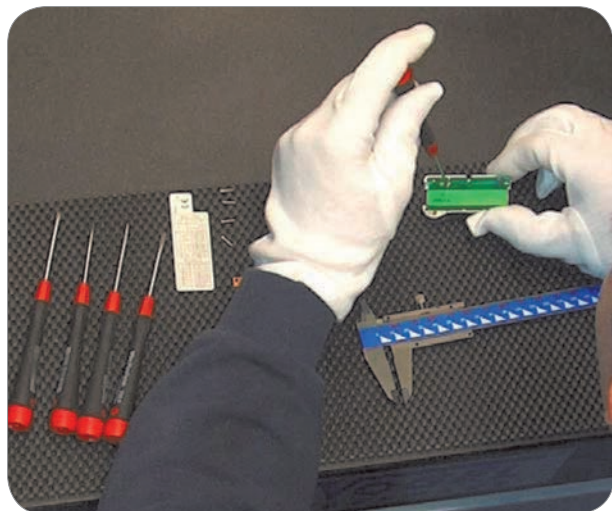
How to order spare parts:

- e.g. a fixing screw for art.-no. 20 2011 is needed as a spare part, then you call in your order first the art.-no. 20 2011 and then add #1 to the art.-no.: **20 2011#1**

Repair Service

Our well experienced service department offers you all usual repairs of our products. Use our service for:

- repair, maintenance or replacement
- complete overhaul of Vogel Germany measuring equipment



Battery 1.55V

Metr. ISO			
Nenn major ext. Passo ϕ mm	Slg pitch extr. Passo mm	Kern minor int núcleo ϕ mm	Bohr drill mèche broca ϕ mm
3	0.5	2.46	2.5
4	0.7	3.24	3.3
5	0.8	4.13	4.2
6	1	4.92	5
8	1.25	6.65	6.8
10	1.5	8.38	8.5
12	1.75	10.11	10.2
16	2	13.84	14
20	2.5	17.29	17.5
Whit worth			
ϕ in	Gp/in	ϕ mm	ϕ mm
1/4	20	4.72	5.0
5/16	18	6.13	6.4
3/8	16	7.48	7.7
1/2	12	9.59	10.25
5/8	11	12.92	13.25
3/4	10	15.8	16.25
7/8	9	18.61	19
1	8	21.34	21.75

conversion table for digital calipers



1 pair grub screws #9



1 pair screws for housing attachment (on the back) #10



brass sliding spring #11



ART NO	description	ART NO	description	ART NO	description
xx xxxx#1	fixing screw	xx xxxx#4	cover for data output	xx xxxx#7	thumb roll with holder
xx xxxx#2	case	xx xxxx#5	set for depth gauge bracket	xx xxxx#8	set for fine adjustment
xx xxxx#3	battery cover	xx xxxx#6	depth gauge	xx xxxx#9	1 set grub screw
xx xxxx#10	1 pair of screws	xx xxxx#11	brass sliding spring	20 20405	conversion table

Spare Parts for Caliper

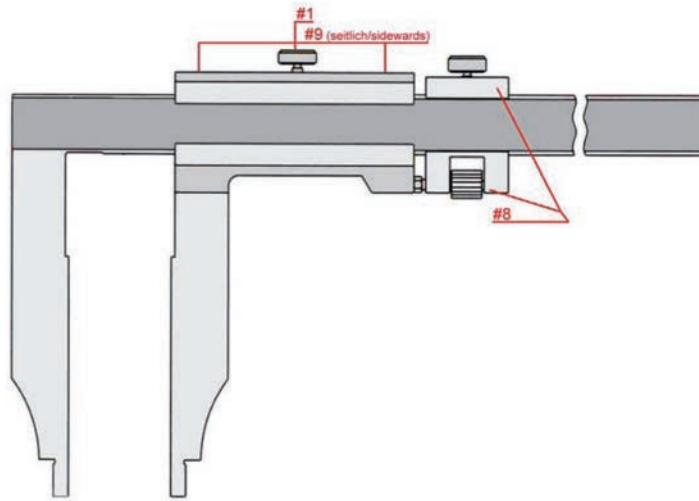
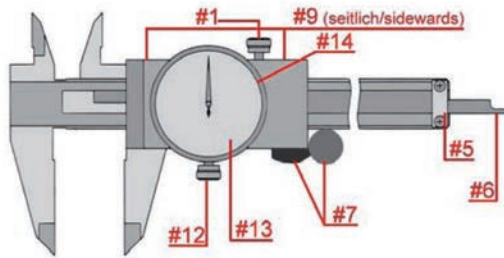
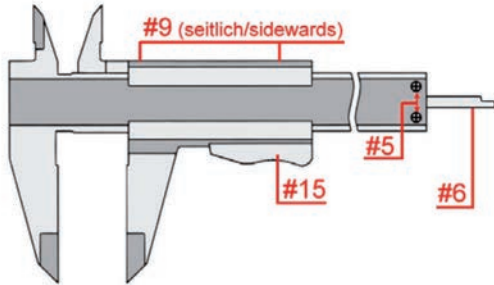
Spare Part List for analogous Calipers

How to order spare parts:

- e.g. ein thumb lever for art.-no. 20 1020 is needed as a spare part, then you call in your order first the art.-no. 20 1020 and then add #15 to the art.-no.: **20 1020#15**

METRISO-GEW			
NENN Ø	STEIG mm	KERN Ø	BOHR Ø
3	0,5	2,46	2,5
4	0,7	3,24	3,3
5	0,8	4,13	4,2
6	1	4,92	5
8	1,25	6,65	6,8
10	1,5	8,38	8,5
12	1,75	10,1	10,2
16	2	13,8	14
20	2,5	17,3	17,5
WHITWORTH			
Ø in	Gg/in	Ømm	Ømm
1/4	20	4,72	5
5/16	18	6,13	6,4
3/8	16	7,49	7,7
1/2	12	9,99	10,25
5/8	11	12,92	13,25
3/4	10	15,8	16,25
7/8	9	18,61	19
1	8	21,34	21,75

Metr. ISO - Gew.		
Gew.-Ø x Stg.	Kern-Ø mm	Bohrer-Ø mm
3 x 0,6	2,46	2,5
3,5x0,5	2,85	2,9
4 x 0,7	3,24	3,3
5 x 0,8	4,13	4,2
6 x 1	4,92	5,0
8 x 1,25	6,65	6,8
10 x 1,5	8,38	8,5
12x1,75	10,1	10,2
16 x 2	13,8	14,0
20 x 2,5	17,3	17,5



1 set grub screw #9



bronze sliding spring #11



ART NO	description	ART NO	description	ART NO	description
xx xxxx#1	fixing screw	xx xxxx#9	1 set grub screw	xx xxxx#15	thumb lever with screw
xx xxxx#2	set for depth gauge bracket	xx xxxx#11	bronze sliding spring	20 98100	conversion table
xx xxxx#3	depth gauge	xx xxxx#12	fixing screw for dial	20 98102	conversion table (laser engraved)
xx xxxx#10	thumb roll with holder	xx xxxx#13	dial	-	-
xx xxxx#8	set for fine adjustment	xx xxxx#14	plastic glass	-	-

Headstart, Knowledge, Success...

...Join the **VOGEL**[®]
GERMANY product lessons

In 2012 we built our new administrative building. In here the Vogel Germany Center for advanced training is integrated.

Please let us know what your needs are. Learn more about our product range and our product lines. Learn more how you can integrate our digital products into the manufacturing and processing lines.

Anyway, if you like we will work out a special offer concerning learning topics purely for your tasks.



Inspection Kits

★★★★★ **BLUE-LINE** **DIGI PLUS-LINE** **Wheelset Inspection Kit „BASIC“** **NEW**

ART N° 21 9900

consisting of:

- brake disc caliper 0-60 x 0.1 mm, jaw measuring depth 50 mm (art.-no.: 20 6003)
- electr. digital tire tread depth gauge 0-25 x 0.01 mm, bridge length 60 mm (art.-no.: 21 4442)
- electr. digital tire pressure meter 0-100 PSI / 0-7 bar / 0-700 Kpa (art.-no.: 21 4460)
- incl. batteries, operation manual, in a sturdy case



★★★★★ **DIGI PLUS-LINE** **Wheelset Inspection Kit „CLASSIC“** **NEW**

ART N° 21 9901

consisting of:

- digital brake disc caliper 0-60 x 0.01 mm, jaw measuring depth 50 mm (art.-no.: 20 6020)
- electr. digital tire tread depth gauge 0-25 x 0.01 mm, bridge length 60 mm (art.-no.: 21 4442)
- electr. digital tire pressure meter 0-100 PSI / 0-7 bar / 0-700 Kpa (art.-no.: 21 4460)
- incl. batteries, operation manual, in a sturdy case



★★★★★ **BLUE-LINE** **Brake Disc Inspection Kit „BASIC“** **NEW**

ART N° 24 2503

consisting of:

- brake disc caliper 0-60 x 0.1 mm, jaw measuring depth 50 mm (art.-no.: 20 6003)
- magnetic measuring stand, chromed column, with fine adjustment, throat 140 mm, column ø 12 mm, length 175 mm, total height 235 mm (art.-no.: 25 2001)
- prec. dial indicator, 0-5 x 0.01 mm (art.-no.: 24 1002)
- incl. batteries, operation manual, in a sturdy case



★★★★★ **BLUE-LINE** **DIGI PLUS-LINE** **Brake Disc Inspection Kit „CLASSIC“** **NEW**

ART N° 24 2504

consisting of:

- digital brake disc caliper 0-60 x 0.01 mm, jaw measuring depth 50 mm (art.-no.: 20 6020)
- magnetic measuring stand, chromed column, with fine adjustment, throat 140 mm, column ø 12 mm, length 175 mm, total height 235 mm (art.-no.: 25 2001)
- prec. dial indicator, 0-5 x 0.01 mm (art.-no.: 24 1002)
- incl. batteries, operation manual, in a sturdy case



Other combinations available
on request, please!