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CATALOGUE - 212

Werka Co., Ltd

WELCOME TO WERKA!

WERKA AG

Founded in 1950, Werka AG is located in Zurich, Swiss, known for its innovative idea and cutting-edge technology.



WERKA Deutschland GmbH

Founded in 2012, Werka Deutschland GmbH is located in Frankfurt, focusing on the design and manufacturing of measuring and inspection equipment made in Germany.

WERKA Co.,Ltd

Headquartered in Shanghai, Werka Co., Ltd owns Wuxi branch, Wuxi factory, Suzhou factory and Chongqing office, focusing on the R&D, manufacturing of 2D, 3D measuring and inspection equipment, non-standard gauges and online automatic measuring and inspection system as well as the calibration service with German quality. It is capable of developing the intelligent measuring software platform so as to cater for customers with standard, modular and digital solutions on a defined platform.

WERKA, online intelligent measuring provider, is ready to make your dream of intelligent manufacturing come true.



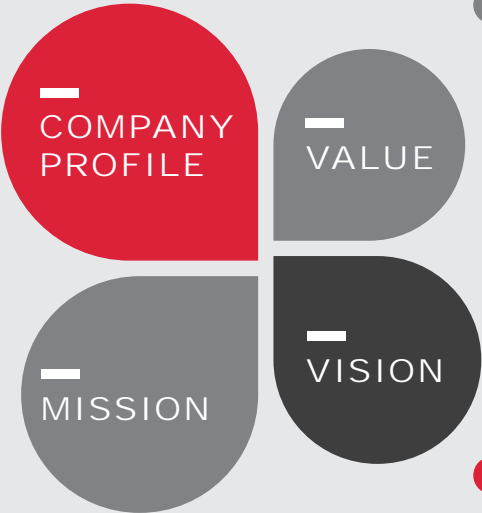
WERKA Co.,Ltd has passed the ISO9001:2015 quality system certification.





Werka, an intelligent on-line measuring professional, enables you to realize the smart manufacturing, focusing on offering 3D measuring equipment, 2D visual and special gauges, semi-automatic and fully automatic measuring equipment as well as solutions of standardized, modularized and digitalized general measuring tools on a defined platform.

- Kindness: care about others
- Integrity: walk the talk
- Respect: mutual respect
- Initiative: resolute and responsible



In pursuit of excellence ●

● A global intelligent measuring leader



Excellent quality



Shanghai DJT-AQRAT Measuring Tools Co.,Ltd.

AQRAT Lab ensures products made by and/or delivered by WERKA are in compliance with DIN standard. It is the exclusive Dakks certified length measurement lab in China, which is highly relevant to PTB the top quality inspection and supervising organization.

In general, PTB designates experts along with equipment to AQRAT to examine and verify its authority of length measurement each year. In addition, AQRAT is the first option for German companies in China to test, calibrate, re-inspect and repair measuring equipment and gauges.

AQRAT test report



DKA test report



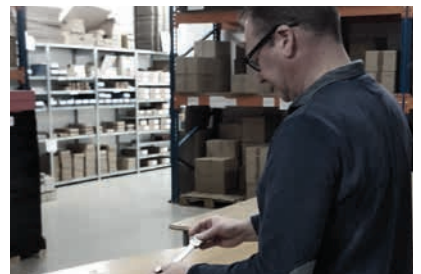
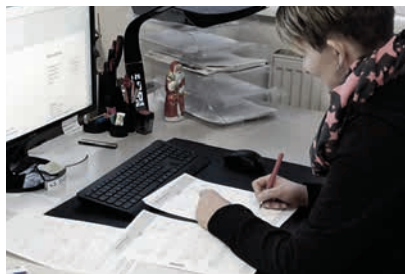
Dakks accreditation



DKD member certification



Our AQRAT Lab is highly relevant to PTB Germany.



Werka intelligent manufacturing base



• +Gf+ Agiecharmilles Slow-Feeding Wire-Cut Machine



• Jig Grinding Machine Workshop



• Test Lab

Werka Co.,Ltd

Werka intelligent manufacturing base



• Makino High Speed Cnc



• Amada Surface Grinder



• Electro-Machining Workshop



Excellent quality

Swiss technology gauges the future intelligently

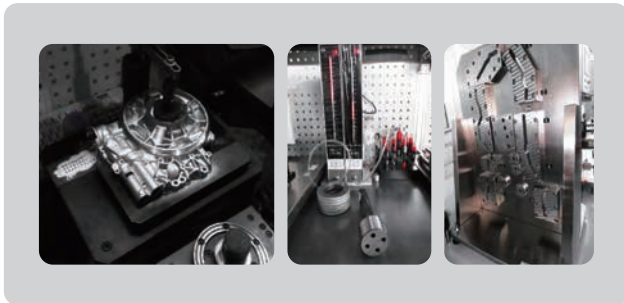
01 3D measurement



02 Semi-automatic And fully automatic measuring equipment



03 Special gauges



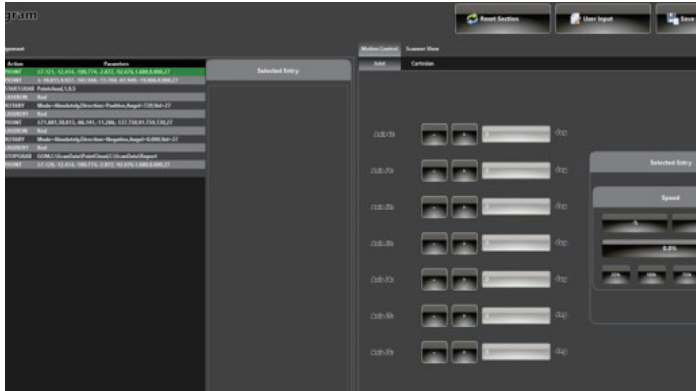
04 General measuring tools



Werka, an intelligent on-line measuring professional, enables you to realize the smart manufacturing.

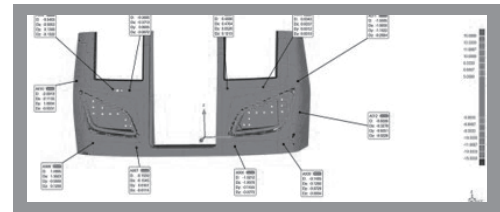
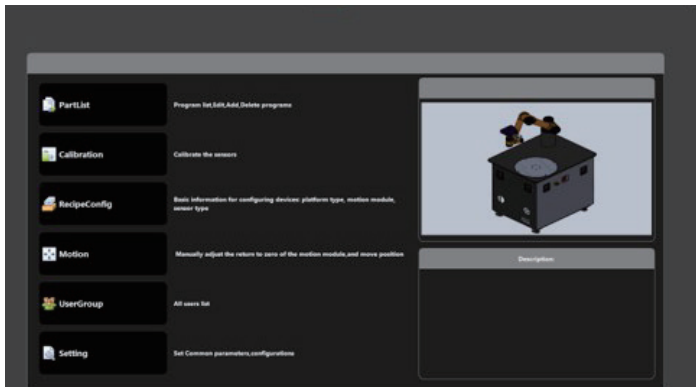
Werka Co.,Ltd

Swiss technology gauges the future intelligently



WERKA takes root in China and is committed to offering on-line measuring solutions for China's intelligent manufacturing in a way to facilitate Industry 4.0.

We're ready to make special gauges for customers, offer semi-automatic and fully automatic equipment, 3D optical and visual measurements, measuring solutions as well as data integration for business partners.



Werka, an intelligent on-line measuring professional.



















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ART NO.INDEX:197-228

EXPLANATION

In our catalogue you will find several pictograms beside the description



WERKA Pro



WERKA Inspection Certificate



With Tol-Alarm Function



Patented Item



LAB Inspection Certificate



Data output



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EXCELLENT · QUALITY

A GLOBAL INTELLIGENT MEASURING LEADER

Werka Co.,Ltd



3D MEASUREMENT

**3D INTELLIGENT MEASURING
WORK STATION**

•

**SKSCAN-MAGIC COMPLEX
3D SCANNER**

•

**SKSCAN-MAGIC COMPLEX
3D SCANNER**

•

**SSIMSCAN HAND-HELD
3D SCANNER**

•

**STRACKSCAN-P42
3D TRACKING SCANNER**

•

SXTOM 3D SCANNER

•

**SUMA SMART
DESKTOP ROBOTIC**

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•

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3D Intelligent Measuring Work Station



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3D Intelligent Measuring Work Station

- Velocity-5-10 times faster than CMM, robot arm and scanner
- User friendly - No professional robot programmers are required,the Smart 3D software with universal interface is available
- Shock absorption design: fast and movable deployment in workshops
- High precision- up to 0.03mm
- Value- highest productivity and lowest cost achieved against other automated measuring systems
- Standardization - easy to use and replaceable module
- Security - Co-bots to avoid accidents
- Mixed measurement-Smart3D supports the combination of 2D visual,3D scan and measuring devices
- Bilateral control - logical Input and output in compliance with industry standard, applicable for PLC, SCADA,HMI, Interlock and other systems



3D Intelligent Measuring Work Station	
Art. No.	110-0001
Model	Smart3D Measurement Station
3D Scanner functionality	3D line laser/ 3D structured light/ hand-held scanner
Robot	T
Robot working radius	0.88m(customizable)
Robot workload	5Kg(customizable)
additional shaft support (e.g. rotator, guide)	Yes
Cooperative option	Yes
Typical component dimension	Medium

SKSCAN-Magic Complex 3D Scanner



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SKSCAN-Magic Complex 3D Scanner



Model		SKSCAN-Magic
Art. No.		112-0003
Scan mode	Fast scan	22 crossed blue laser lines
	Fine scan	7 paralleled blue laser lines
	Large-range scan	11 paralleled infrared laser lines
	Deep hole scan	an additional blue laser line
total of laser lines		41
Accuracy		0.020 mm
top scan rate		1,350,000 times/sec.
top scan area		1440 mm × 860 mm
high-definition camera measurement	Config.	standard(built-in)
	scan area	3760 mm × 3150mm
	DOF	2500 mm
Laser model		Class II (eye safe)
top resolution		0.01mm
top dimensional precision	standard	0.010mm + 0.030 mm/m
	High precision(1)	0.010mm + 0.020 mm/m
	High precision(2)	0.010mm + 0.015 mm/m
reference distance		300 mm
DOF(depth of field)		925 mm
SK-Probe light pen	Config.	Option
	single point repeatability	0.030 mm
	Tracking frequency	60 hz
Smart boundary detecting module	Config.	Option
	Boundary precision	0.030 mm
Measuring module for tubes	Config.	Option
	output format	YBC/LRA and offset
output format		.stl, .ply, .obj, .igs, .wrl, .xyz, .dae, .fbx, .ma, .asc,customizable
Operation Temperature		-10~40°C
Interface		USB 3.0

SSIMSCAN Hand-held 3D Scanner



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SSIMSCAN Hand-held 3D Scanner



Model		SSIMSCAN
Art. No.		112-0004
Scan mode	Fast scan	34crossed blue laser lines
	Fine scan	7 paralleled blue laser lines
	Deep hole scan	an additional blue laser line
total of laser lines		30
Accuracy		0.020 mm
Top scan rate		2,020,000 times/sec
Top scan area		410 mm × 400 mm
Laser model		Class II (eye safe)
Top resolution		0.025 mm
Dimensional precision	Standard	0.020 mm + 0.040 mm/m
	SMSCAN-L15 Panoramic Camera Measuring System	0.020 mm + 0.015 mm/m
Reference Distance		300 mm
DOF		250 mm
Output Format		pj3,asc,igs,txt,mk2,umk,sti,ply,obj
Applicable Format		pj3,pjs,asc,igs,txt,mk2,umk,refxml,sti,ply,step
Operation Temperature		-10~40°C
Interface		USB 3.0
Size		203 mm × 80 mm × 44 mm
Weight		570 g

STrackScan-P42 3D Tracking Scanner



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STrackScan-P42 3D Tracking Scanner



Model		STrackScan-P42
Art. No.		113-0008
Scan mode	Fast scan	34 crossed blue laser lines
	Fine scan	7 paralleled blue laser lines
	Deep hole scan	an additional blue laser line
total of laser lines		42
Accuracy		0.025 mm
Top scan rate		1,900,000 times/sec.
Top scan area		310mm × 350 mm
Laser model		Class II (eye safe)
Top resolution		0.020 mm
Dimensional precision	9.1 m ³	0.064 mm
(Scanner only)	16.6 m ³	0.078 mm
Dimensional precision (SMSCAN-L15 Panoramic Camera Measuring System)		0.044mm+0.015mm/m
ST-Probe light pen	Config.	Option
	Single Point Repeatability	0.030 mm
Object Size		200~6000 mm
Reference Distance		300 mm
DOF		320 mm
Output Format		.stl, .ply, .obj, .igs, wrl, .xyz, .dae, .fbx, .ma, .asc,customizable
Operation Temperature		5~40 °C
Interface		USB 3.0

SXTOM 3D Scanner



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SXTOM 3D Scanner



● SXTOM-MATRIX-5M

Model	SXTOM-MATRIX-5M
Art. No.	112-0006
Pixel	5 million
Probe Size (L×W×H) (mm)	380×195×130
Scan Area (mm)	200*150/400*300
Calculating Speed	Single Scan<2s
Point-cloud Distance (mm)	0.08/0.16
Light Source	Blue Ray Multi-frequency Phase Shift
Scan Mode	Non-contact
Splicing	Overall Mark Points Splicing, Characteristic Splicing, Fully Automatic Splicing with Single Axis or Multi-axis Desktop
Precision Control	Automatic Monitoring, Built-in Panoramic Deviation Control, Overall Positioning Control for Camera Measurement
Probe Weight(kg)	Binocular2.4/Four-eye Camera2.8
Applicable System	Win7/Win10 64 Bits

● SXTOM-MATRIX-9M

Model	SXTOM-MATRIX-9M
Art. No.	112-0007
Pixel	9 million
Probe Size (L×W×H)(mm)	430×240×146
Scan Area (mm)	200*150/400*300
Calculating Speed	Single Scan<2s
Point-cloud Distance (mm)	0.06/0.12
Light Source	Blue Ray Multi-frequency Phase Shift
Scan Mode	Non-contact
Splicing	Overall Mark Points Splicing, Characteristic Splicing, Fully Automatic Splicing with Single Axis or Multi-axis Desktop
Precision Control	Automatic Monitoring, Built-in Panoramic Deviation Control, Overall Positioning Control for Camera Measurement
Probe Weight (kg)	Binocular4.1/Four-eye Camera4.8
Applicable System	Win7/Win10 64 Bits

SUMA Smart Desktop Robotic



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SUMA Smart Desktop Robotic

- **Model: USD-R5-80A**
- **Art. No.: 114-0009**



LMI Gocator 3210	
Scan Speed (Hz)	4
Pixel (Million)	2
Clear Installatoin Distance (CD) (mm)	164.00
Measuring Scope MR (mm)	110.00
FOV (Field of Vision)(FOV) (mm)	71.0×98.0-100.0×154.0
Repeatability Z (μm)	4.7
Resolution XY (mm)	0.060 (CE)-0.090 (FE)
VDI/VDE Precison (mm) *	0.035
Size (mm)	49×142×190
Weight (kg)	1.7
Light Source	Blue LED(465nm)
Body Potection	Fully-enclosed Al. Alloy Body, IP67
Operation Temperature	0 ~ 45°C

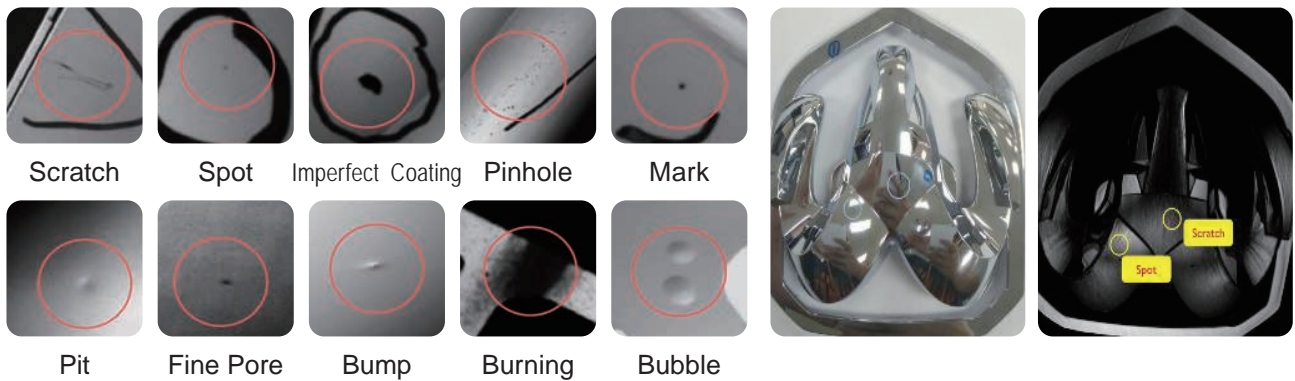
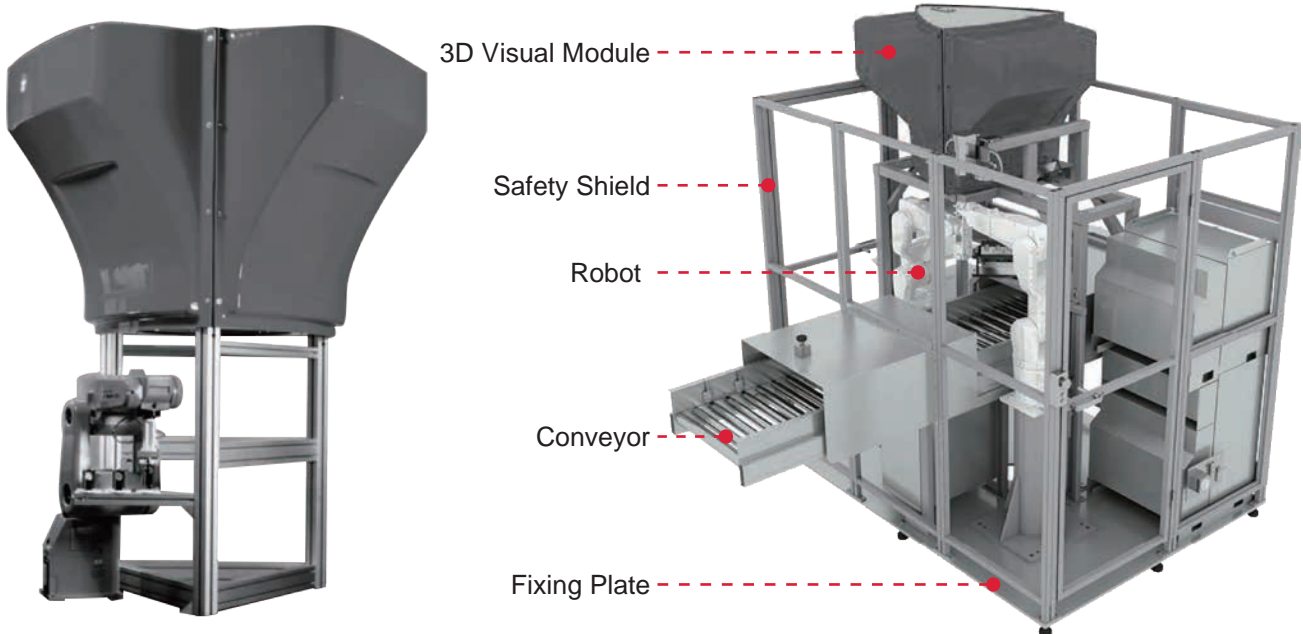
Desktop: Werka	
Size (mm)	800×300×90
Weight (Kg)	29
Desktop Diameter (mm)	200
Desktop Load (Kg)	36
Desktop Precision (°)	<0.1°
Rotate Speed	90°/s
X-axis Adjustable Range(mm)	275-550
Y-axis Adjustable Height(mm)	50-350
Rotational Axis Ajustable Angle (°)	-90° ~ +90°
IP Class	IP50
Operation Temperature	0 ~ 45°C
Data Interface	GbE.
Emergency Button	Class-I

LMI Gocator 3506	
Scan Speed (Hz)	3
Pixel (Million)	5
Clear Installatoin Distance (CD)(mm)	87.00
Measuring Scope MR (mm)	25.00
FOV(Field of Vision) (FOV) (mm)	27.0×45.0-30.0×45.0
Repeatability Z (μm)	2
Resolution XY(mm)	0.020 (CE)-0.025 (FE)
VDI/VDEPrecison (mm) *	0.012
Size (mm)	49×136×170
Weight (kg)	1.52
Light Source	Blue LED(465nm)
Body Potection	Fully-enclosed Al. Alloy Body, IP67
Operation Temperature	0 ~ 50°C

Co-bot :UR3	
Effective Load	3Kg
Effective Working Range	500mm
DOF	6 Rotary Joints
Repeatability	±0.03mm
Temp. Range	0-50°
IP Class	IP64

3D defect detection

- To decrease the error of 2D visual measurement and accurately identify various defects of highly bright and transparent components
- Art. No. : 111-0002



Open service platform

- 3D Dimensional measurement, flaw detection, reverse modeling available
- 3D structured light measuring system
- 3D Line laser Measuring system
- Defect detection system
- Optical measuring system
- 3D point-cloud process and dimensional measurement



3D structured light measuring system



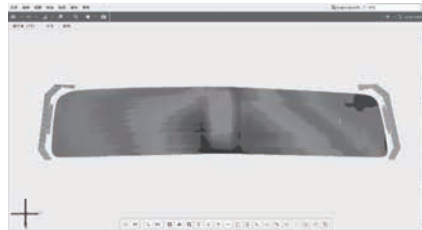
3D Line laser Measuring system



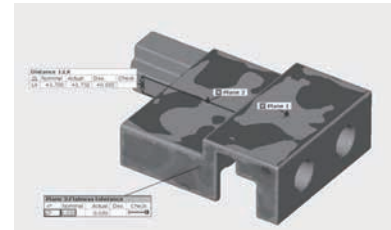
Defect detection system



Optical measuring system

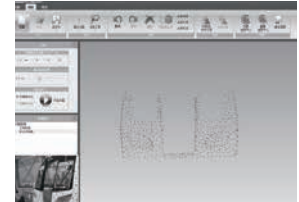
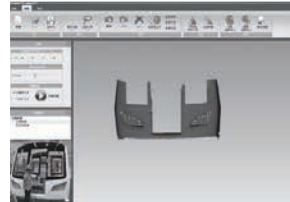
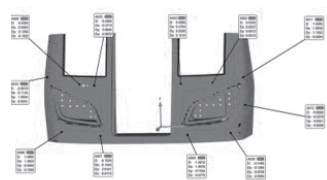
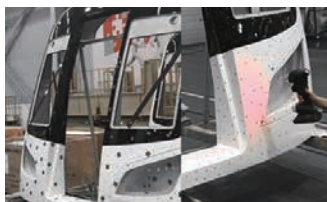


3D point-cloud process and dimensional measurement



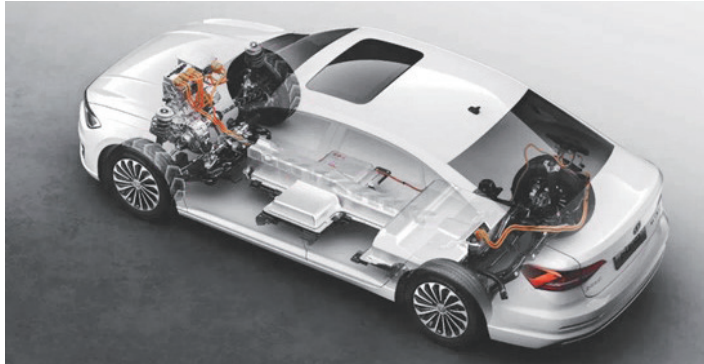
Application

- Locomotive Inspection



Application

- NEV Battery Tray Inspection



- Car Frnt Inspection



Step1: 10mins for marking
Step 2: 12mins for scanning
Step3: 12mins for data processing



Data of the triangle grid



Scan the point cloud data

SPECIAL GAUGES- CUSTOMIZED

AUTOMATED DETECTOR

•

**RUN-OUT GAUGE FOR
WHEEL HUB**

•

GENERAL SEAT GAUGE

•

**GENERAL GAUGE FOR HIGH
PRESSURE FUEL RAIL**

•

**STRACKSCAN-P42
3D TRACKING SCANNER**

•

SXTOM 3D SCANNER

•

**GENERAL GAUGE FOR LOW
PRESSURE FUEL RAIL**

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Automated detector (customized)

Application:

- Highly customized measuring equipment based upon inspection requirement, applicable for geometrical tolerance measurement of various processed components
- Fast measurement on site to select qualified parts
- Semi-auto/auto measurement with data save/output

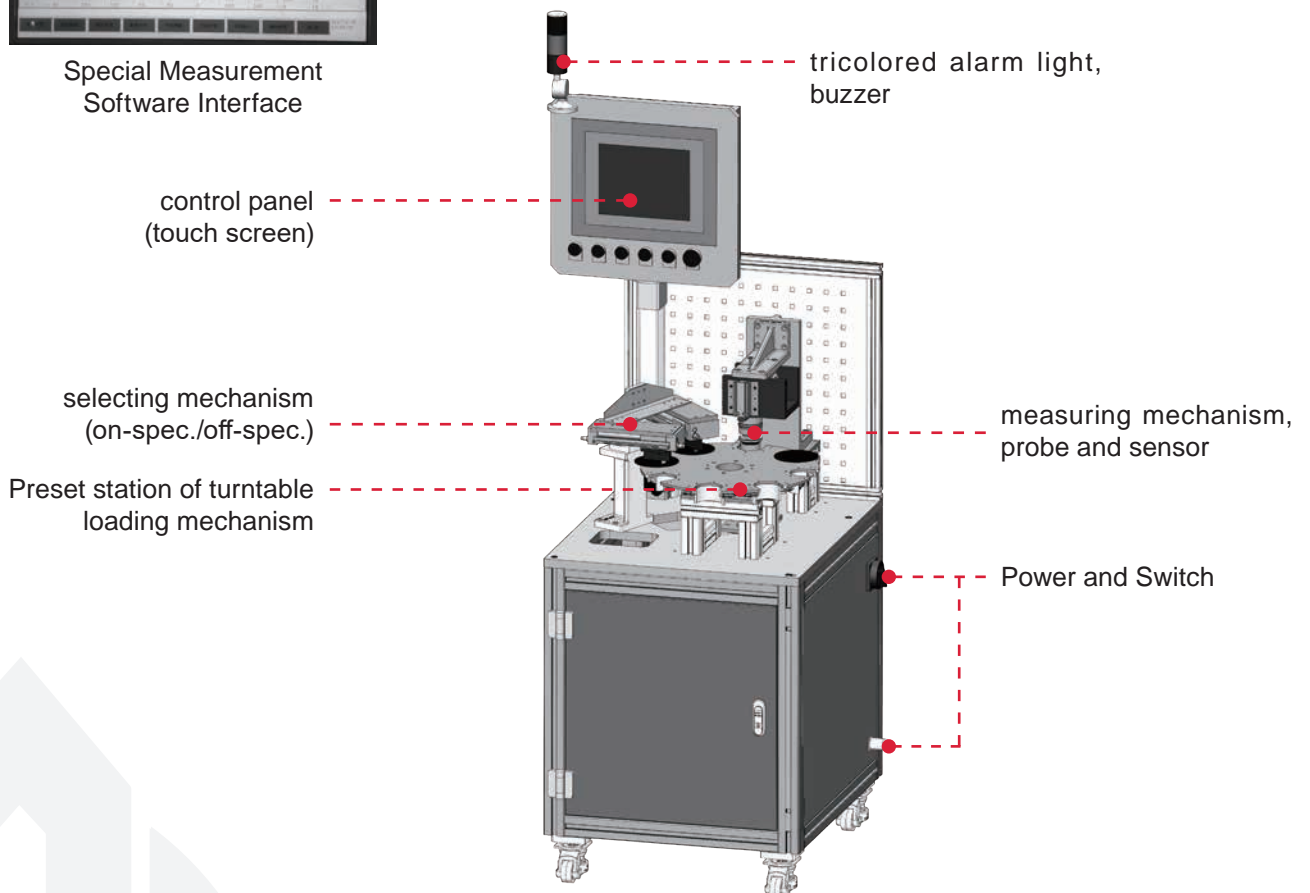
The detector can locate and clamp the object to be inspected automatically with reading gauges and functional gauges respectively driven by electric or pneumatic powered unit to carry out the detection.

Feature:

- Measurement with form tolerance up to 0.02mm(Diameter/distance etc.)
- Measurement with positional tolerance up to 0.1mm
- To work with auto production line upon requirement on site or run independently
- Power supply 380V/220V
- Industrial gas supply available
- Manual/auto loading or unloading upon your request



Special Measurement Software Interface



Run-out gauge for wheel hub (customized)

Application:

- Run-out measurement of automobile wheel hub

Gauges can achieve a V-shaped positioning via the trolleys and then the probes go further to contact the part to be measured through the guide in a way the run-out values can be seen on 4 dials at the same time(or sensors can be used to save data upon request).

Customized gauges are available to meet higher requirements with top precision 0.005mm with dials replaced by sensors plus digital display and bespoke measurement software to save data and output, SPC analysis etc.

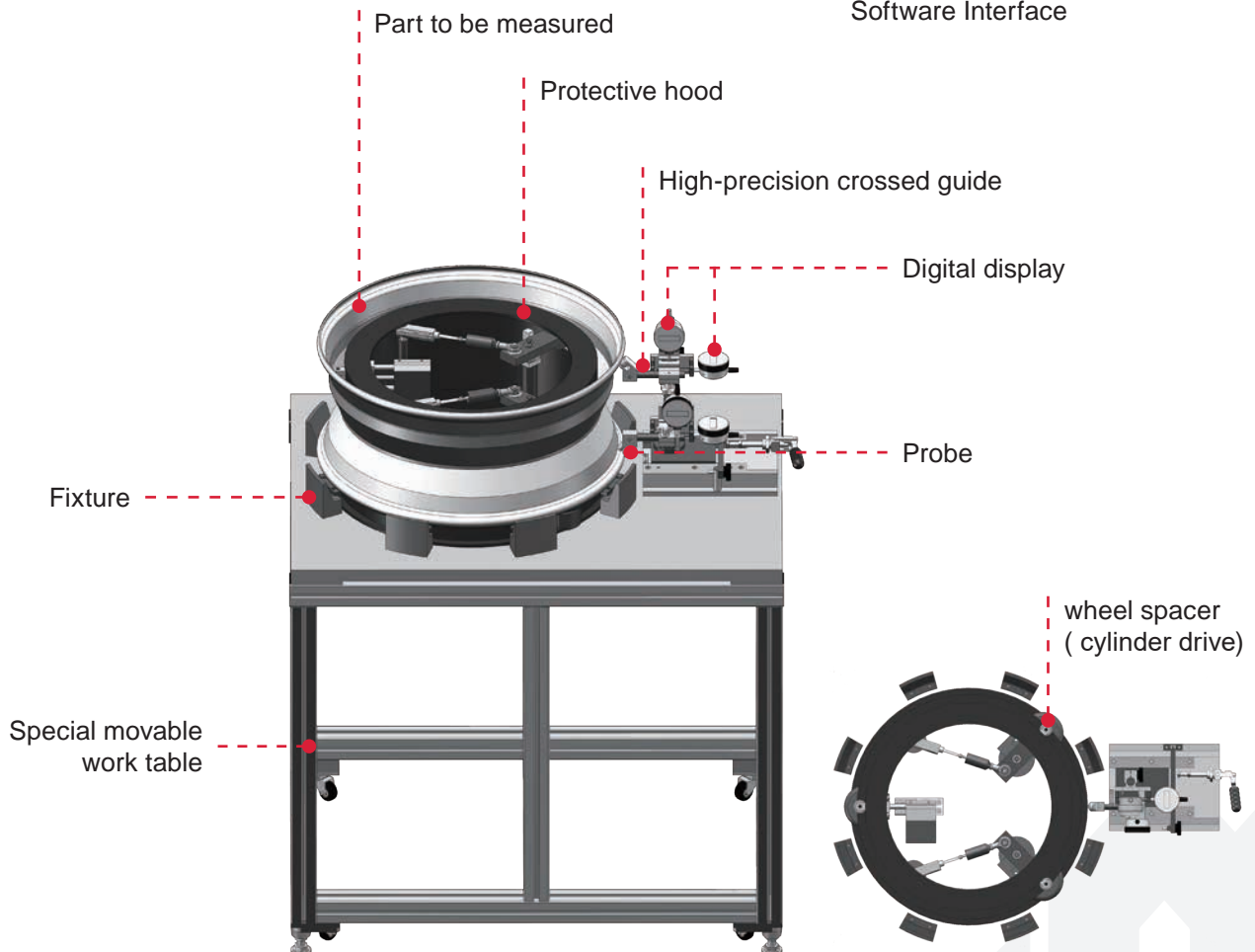
In addition, a pneumatic cylinder can be used for a quicker and easier operation.

Feature:

- Easy to operate with highly-efficient measurement
- 4 measured points of a workpiece displayed
- High-precision rotary positioning mechanism
- Trolleys for positioning and measuring devices
- Contact measurement
- Standard industrial gas supply on site



Special Measurement Software Interface

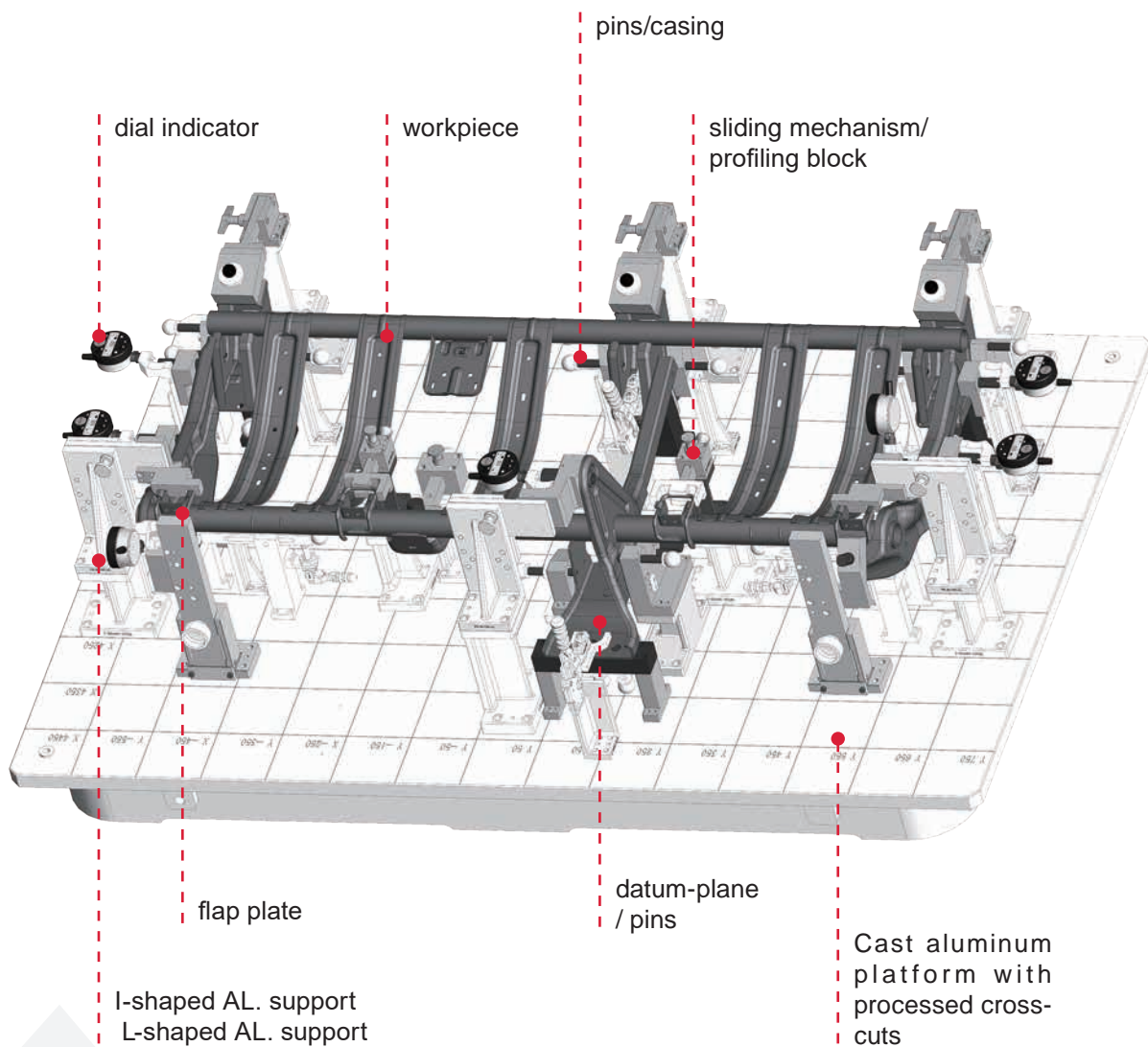


General seat gauge (customized)

Application:

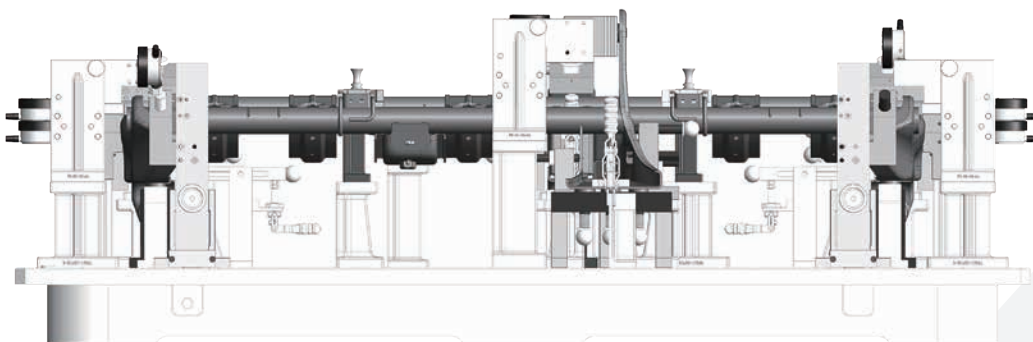
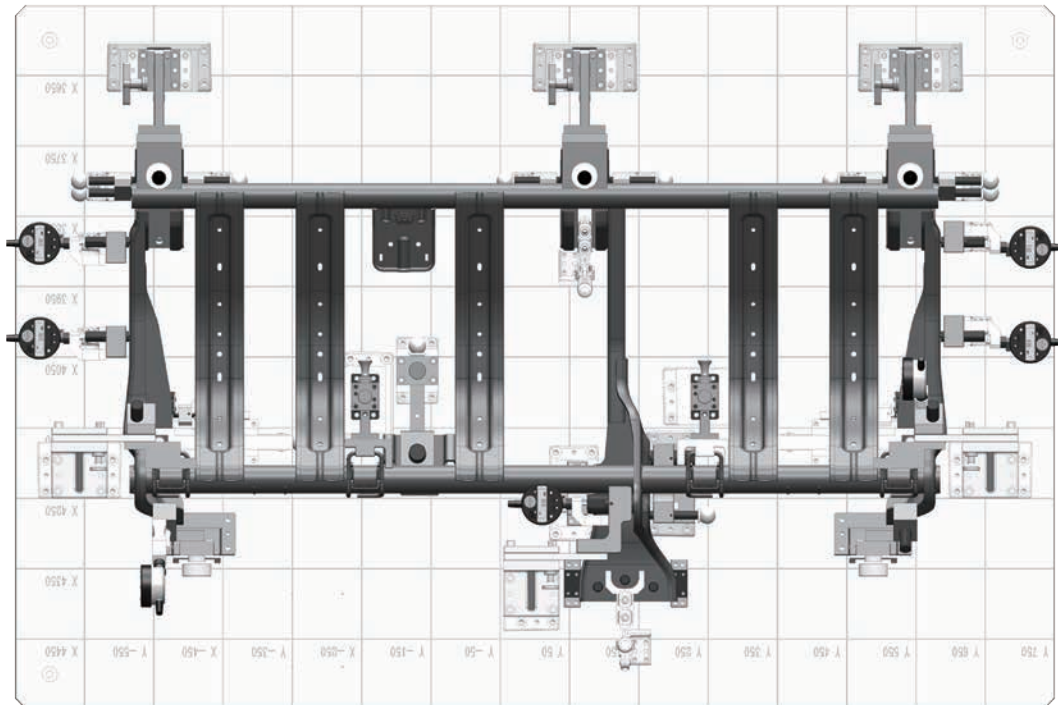
- Geometrical tolerance measurement of automobile metal parts
- Quick measurement on site to select on-spec. parts

Gauge to measure the position accuracy through pin mechanism, especially for mechanically processed holes, to measure the profile of end face through scribing bar/ touch gauge, and to measure distance between end faces/parallelism/perpendicularity through gauge with dials.



Feature:

- Customized gauges for various parts regardless of size
- Test the gauge according to the coordinate system of automobile body to have a easy examination for size
- A movable worktable available for convenient transportation (Option)
- Position accuracy measurement up to 0.5mm
- Profile accuracy measurement up to 0.5mm
- Gauge reference surface/ pins hardness $> \text{HRC } 58$, high durability.
- Fit clearance of pins with accuracy $< 0.005\text{mm}$
- One gauge covering all measuring data, more efficient
- Gauge plan and solutions according to your drawings

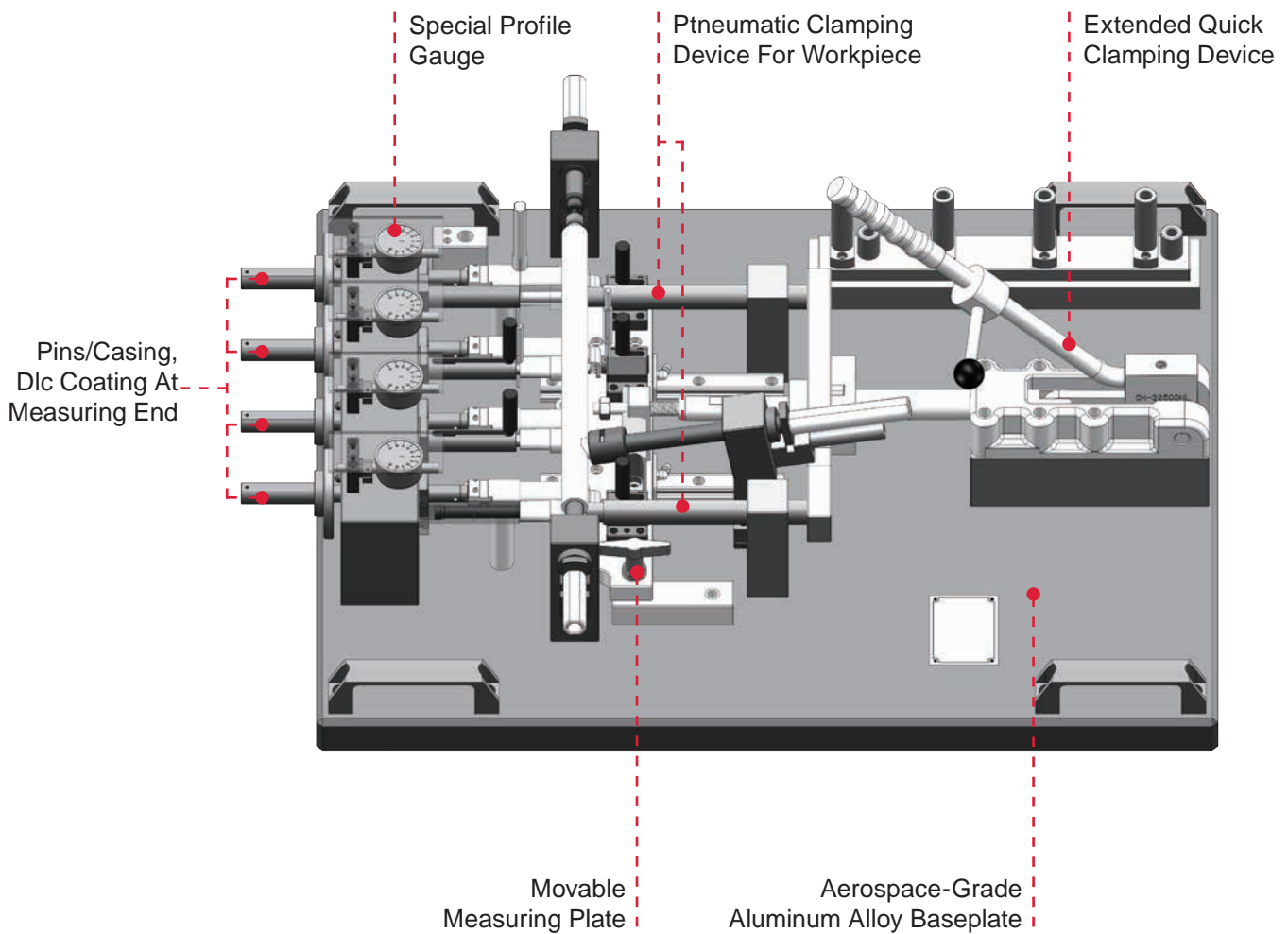


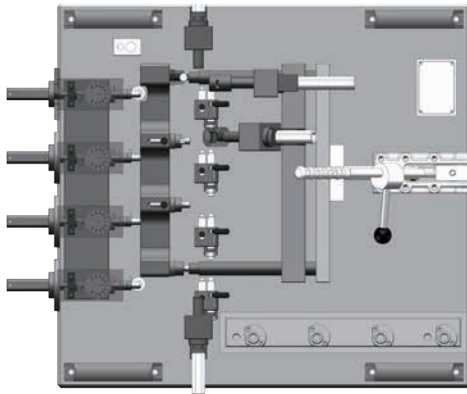
General gauge for high Pressure fuel rail (customized)

Application:

- Geometrical tolerance measurement of automobile fuel rail
- Quick measurement on site to select on-spec. parts

Gauge to measure the position accuracy through pin mechanism, especially for mechanically processed holes, to measure the profile of end face through scribing bar/touch gauge, and to measure distance between end faces/parallelism/perpendicularity through gauge with dials



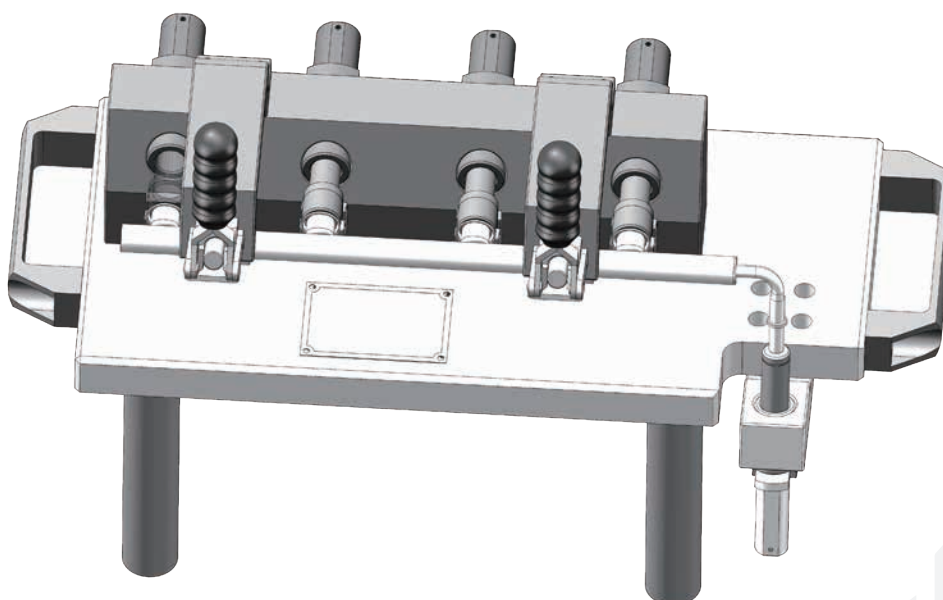


An Overall Bird's Eye View Of The Gauge

Feature:

- Position accuracy measurement up to 0.2mm
- Profile accuracy measurement up to 0.1mm
- Gauge reference surface/ pins hardness $>$ HRC 58, high durability
- Fit clearance of pins with accuracy $<$ 0.005mm
- Profile gauge with dial, high precision and easy to read
- One gauge covering all measuring data, more efficient
- Gauge plan and solutions according to your drawings

General gauge for low pressure fuel rail (customized)



Geometrical functional gauge (customized)

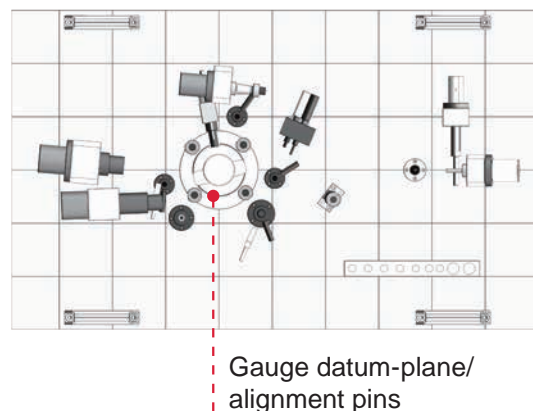
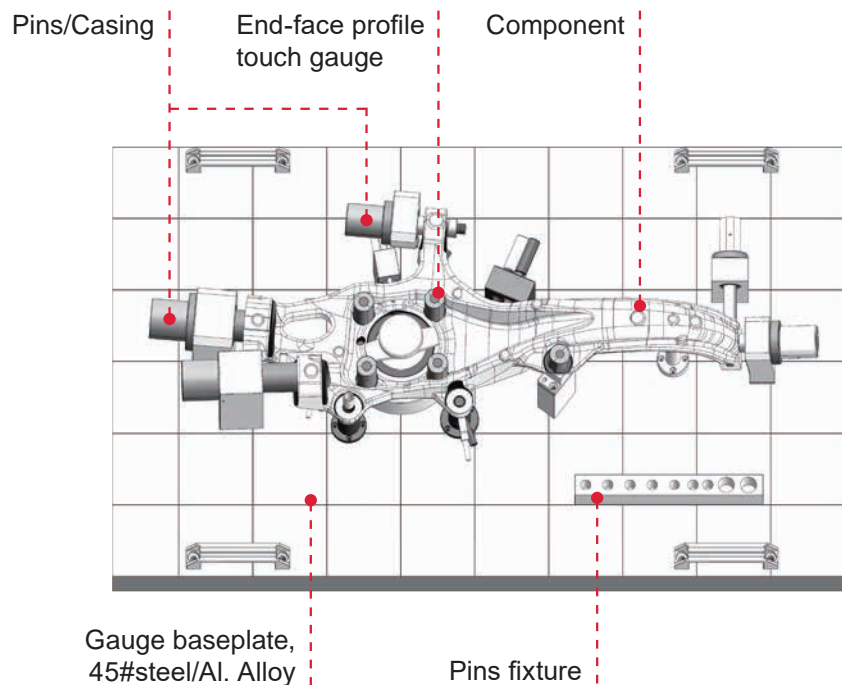
Application:

- Geometrical tolerance measurement of machining components
- Quick measurement on site to select on-spec. components

Geometrical functional Gauge to measure the position accuracy through pin mechanism, especially for mechanically processed holes, to measure the profile of end face through scribing bar/ touch gauge, and to measure distance between end faces/parallelism/perpendicularity through gauge with dials.

Feature:

- Position accuracy measurement up to 0.2mm
- Profile accuracy measurement up to 0.2mm
- Gauge reference surface/ pins hardness > HRC 58, high durability.
- Fit clearance of pins with accuracy < 0.005mm
- One gauge covering all measuring data, more efficient
- Gauge plan and solutions according to your drawings



General gauge for damper(customized)

Application:

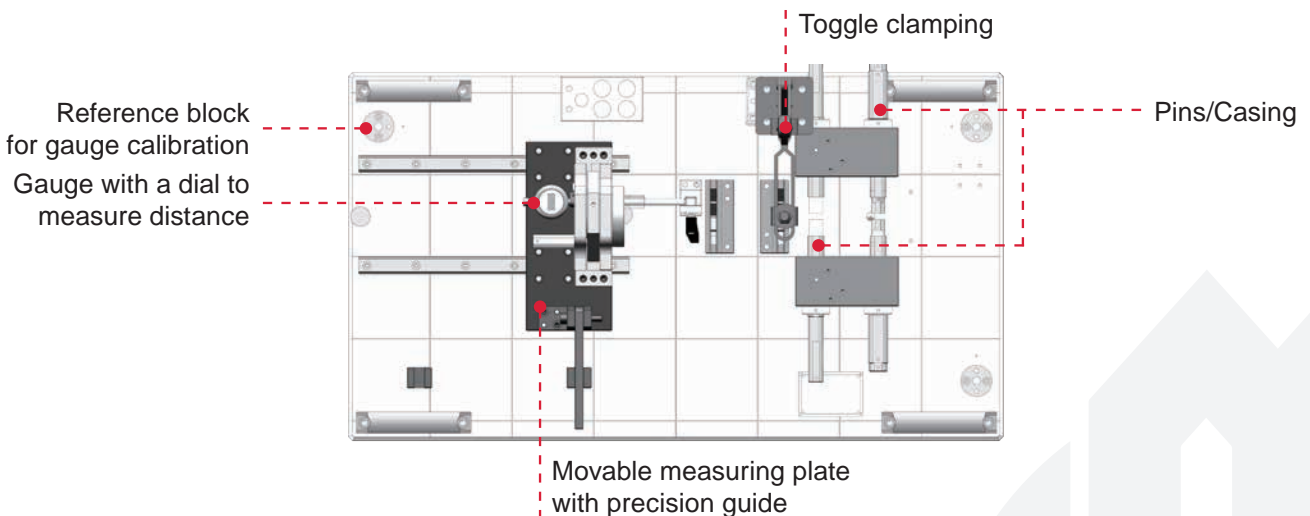
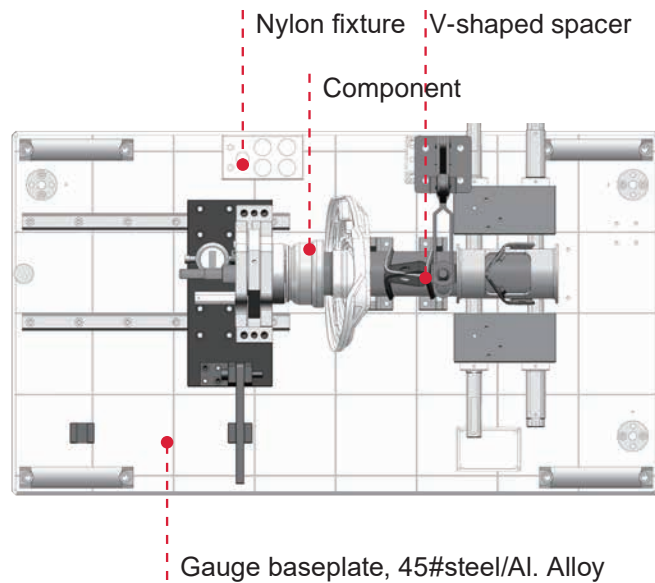
- Geometrical tolerance measurement of metal components/welding parts
- Quick measurement on site to select on-spec. components

Geometrical functional Gauge to measure the position accuracy through pin mechanism, especially for mechanically processed holes, to measure the profile of end face through scribing bar/ touch gauge, and to measure distance between end faces/parallelism/perpendicularity through gauge with dials.

Feature:

- Position accuracy measurement up to 0.5mm
- Profile accuracy measurement up to 0.5mm
- Gauge datum-plane / pins hardness > HRC 58, high durability.
- Fit clearance of pins with accuracy < 0.005mm
- One gauge covering all measuring data, more efficient
- Gauge plan and solutions according to your drawings

B



VERNIER CALIPER

VERNIER CALIPER

•

DIAL CALIPER

•

DIGITAL CALIPER

•

WORKSHOP VERNIER CALIPER

•

WORKSHOP DIGITAL CALIPER

•

DISC BRAKE CALIPER

•

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•



Precision vernier caliper



Made of stainless ,hardened

- Satin chrome finished
- With upper set screw
- Metal thumb
- Deliver with inspection report
- In plastic box

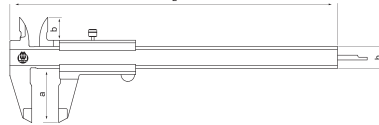
*Please suffix "T" at end of the Art No., if you like the metal thumb lock type. (such as 210-0016T)



210-0016



210-0016T



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	236	40	16.5	16
0-200	286	50	19.5	16
0-300	400	60	21.5	16

Art No.	Range	Reading	Accuracy error	Barcode
210-0016	0-150mm/0-6"	0.05mm/1/128"	0.05mm	6971570710016
210-0023	0-200mm/0-8"	0.05mm/1/128"	0.05mm	6971570710023
210-0030	0-300mm/0-12"	0.05mm/1/128"	0.05mm	6971570710030
210-0047	0-150mm/0-6"	0.02mm/0.001"	0.03mm	6971570710047
210-0054	0-200mm/0-8"	0.02mm/0.001"	0.03mm	6971570710054
210-0061	0-300mm/0-12"	0.02mm/0.001"	0.03mm	6971570710061
210-0078	0-150mm	0.02mm	0.03mm	6971570710078
210-0085	0-150mm/0-6"	0.05mm/1/128"	0.05mm	6971570710085

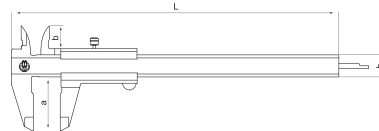
Round depth rod

Precision vernier caliper



Made of stainless ,hardened

- Satin chrome finished
- With upper set screw
- Ergonomically desinged mono block vernier
- Deliver with inspection report
- In plastic box



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	236	40	16.5	16
0-200	286	50	19.5	17
0-300	402	60	21.5	20

Art No.	Range	Reading	Accuracy error	Barcode
2110-2150	0-150mm	0.02mm	0.03mm	6972727957841
2110-2200	0-200mm	0.02mm	0.03mm	6972727957858
2110-2300	0-300mm	0.02mm	0.03mm	6972727957865
2110-5150	0-150mm	0.05mm	0.05mm	6972727953560
2110-5200	0-150mm	0.05mm	0.05mm	6972727953577
2110-5300	0-150mm	0.05mm	0.05mm	6972727953584

Precision vernier caliper



Accuracy according to DIN862.

- Stainless steel
- Satin chrome finished, hardened
- With upper set screw
- Flat depth rod
- With fine adjustment
- Four way measurement
- Backside with thread table
- In plastic box
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
210-0092	0-130mm/0-5"	0.02mm/0.001"	0.03mm	6971570710092
210-0108	0-180mm/0-7"	0.02mm/0.001"	0.03mm	6971570710108
210-0115	0-280mm/0-11"	0.02mm/0.001"	0.03mm	6971570710115

Precision vernier caliper



Accuracy according to DIN862.

- Stainless steel
- Satin chrome finished, hardened
- With thumb lock
- Flat depth rod
- Four way measurement
- Backside with thread table
- In plastic box
- Deliver with inspection report



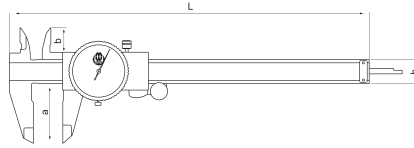
Art No.	Range	Reading	Accuracy error	Barcode
210-0139	0-150mm/0-6"	0.02mm/0.001"	0.03mm	6971570710139
210-0122	0-150mm/0-6"	0.02mm/0.001"	0.03mm	6971570710122
210-9309	0-0-200mm/0-8"	0.02mm/0.001"	0.03mm	6971570719309

Dial caliper



Accuracy according to DIN862.

- Made of stainless ,hardened
- High quality movement of dial, shockproof
- With thumb roller
- Flat depth rod
- Deliver with inspection report
- In plastic box



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	236	40	16.5	16
0-200	286	50	19.5	16
0-300	410	64	21.5	20

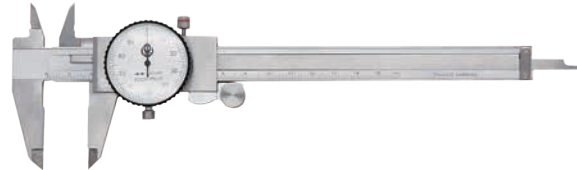
Art No.	Range	Reading	Accuracy error	Barcode
2304-150	0-150mm	0.02mm	0.02mm	6972727954079
2304-200	0-200mm	0.02mm	0.03mm	6972727954086
2304-300	0-300mm	0.02mm	0.03mm	6972727954093

Dial caliper



Accuracy according to DIN862.

- Made of stainless steel,hardened
- Shockproof design
- With upper set screw
- Flat depth rod
- Four way measurement
- Backside with thread table
- In plastic box
- Deliver with inspection report



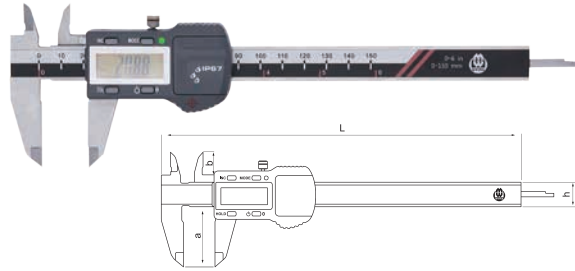
Art No.	Range	Reading	Accuracy error	Barcode
210-8371	0-150 mm	0.01 mm	0.03mm	6971570718371
210-8869	0-200 mm	0.01 mm	0.03mm	6971570718869
210-8876	0-300 mm	0.01 mm	0.03mm	6971570718876
210-8364	0-150 mm	0.02 mm	0.03mm	6971570718364
210-8845	0-200 mm	0.02 mm	0.03mm	6971570718845
210-8852	0-300 mm	0.02 mm	0.03mm	6971570718852
210-8388	0-6"	0.001"	0.03mm	6971570718388
210-8883	0-8"	0.001"	0.03mm	6971570718883
210-8890	0-12"	0.001"	0.03mm	6971570718890

IP67 Water-proof Digital caliper



Top quality.
Accuracy according to DIN862.

- A green LED light turn on when the reading is within preset tolerance limits
- IP67 protection, water and dust resistant
- Stainless steel, hardened
- New designed precision and high quality construction
- Four way measurement
- With INC, MODE,TOL and POWER/0 four buttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	236	40	16.5	16
0-200	286	50	19.5	16
0-300	390	60	21.5	16

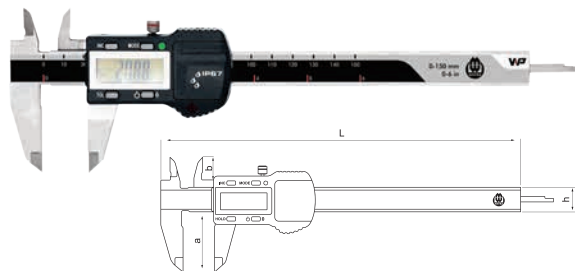
Art No.	Range	Reading	Accuracy error	Barcode
210-7787	0-150mm	0.01mm	0.02mm	6971570717787
210-7794	0-200mm	0.01mm	0.03mm	6971570717794
210-7800	0-300mm	0.01mm	0.03mm	6971570717800

IP67 Water-proof Digital caliper



Top quality.
Accuracy according to DIN862.

- A green LED light turn on when the reading is within preset tolerance limits
- IP67 protection, water and dust resistant
- Stainless steel, hardened
- New designed precision and high quality construction
- Four way measurement
- With INC, MODE,TOL and POWER/0 four buttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	236	40	16.5	16
0-200	286	50	19.5	16
0-300	390	60	21.5	16

Art No.	Range	Reading	Accuracy error	Barcode
210-7787B	0-150mm	0.01mm	0.02mm	6971570717787
210-7794B	0-200mm	0.01mm	0.03mm	6971570717794
210-7800B	0-300mm	0.01mm	0.03mm	6971570717800
210-7787BR	0-150mm	0.01mm	0.02mm	6972727959043

IP67 Water-proof Digital caliper



TOP quality.
Accuracy according to DIN862.

- IP67 protection, water and dust resistant
- Stainless steel, hardened
- New designed precision and high quality construction
- Four way measurement
- With INC, MODE, HOLD and POWER/0 four buttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



C

Art No.	Range	Reading	Accuracy error	Barcode
210-7756	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717756

IP67 Water-proof Digital caliper



Accuracy according to DIN862.

- IP67 protection, water and dust resistant.
- Made of stainless steel, hardened
- New designed precision and high quality construction
- Four way measurement
- With MODE and SET button
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
210-8333	150mm/6"	0.01mm/0.0005"	0.03mm	6971570718333
210-8340	200mm/8"	0.01mm/0.0005"	0.03mm	6971570718340
210-8357	300mm/12"	0.01mm/0.0005"	0.03mm	6971570718357

IP67 Water-proof digital caliper



Top quality. Accuracy according to DIN862.
Large LCD display.

- IP67 protection, water and dust resistant
- Inductive measurement system
- Made of stainless steel, hardened
- Buttons: INC, mm/inch, 0/ON/OFF
- CR2032 Battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
2230-150	0-150mm/0-6"	0.001mm/0.00005"	0.01mm	6972727952440
2230-200	0-200mm/0-8"	0.001mm/0.00005"	0.02mm	6972727952457
2230-300	0-300mm/0-12"	0.001mm/0.00005"	0.02mmt	6972727952464

Digital caliper



Accuracy according to DIN862.
Large LCD display.

- Inductive measurement system
- Made of stainless steel, hardened
- Buttons: ON/OFF, mm/inch, ZERO
- CR2032 Battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
2229-150	0-150mm/0-6"	0.01mm/0.00005"	0.02mm	6972727952501
2229-200	0-200mm/0-8"	0.01mm/0.00005"	0.03mm	6972727952518
2229-300	0-300mm/0-12"	0.01mm/0.00005"	0.03mm	6972727952525

Digital caliper



Accuracy according to DIN862.

- Stainless steel, hardened
- Four way measurement
- With mm/inch, ON/OFF and ZERO 3 buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report



210-8814



210-9064

Art No.	Range	Reading	Accuracy error	Barcode	
210-8814	150mm/6"	0.01mm/0.0005"	0.03mm	6971570718814	
210-8821	200mm/8"	0.01mm/0.0005"	0.03mm	6971570718821	
210-8838	300mm/12"	0.01mm/0.0005"	0.03mm	6971570718838	
210-9064	150mm/6"	0.01mm/0.0005"	0.03mm	6971570719064	with removeable thumbroll
210-9071	200mm/8"	0.01mm/0.0005"	0.03mm	6971570719071	with removeable thumbroll
210-9088	300mm/12"	0.01mm/0.0005"	0.03mm	6971570719088	with removeable thumbroll

Digital caliper with carbide measuring face



Accuracy according to DIN862.

- Carbide measuring face
- Made of stainless steel
- With mm/inch, ON/OFF, ZERO buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report



Art No.	Range	Reading	Accuracy error	Barcode
2232-150	150mm/6"	0.01mm/0.0005"	0.03mm	6972727952778
2232-200	200mm/8"	0.01mm/0.0005"	0.03mm	6972727952785
2232-300	300mm/12"	0.01mm/0.0005"	0.03mm	6972727952792

ABS Digital caliper



Top quality.
Accuracy according to DIN862.

- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Four way measurement
- With ORIGIN, MODE, TOL and INC/POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface



Art No.	Range	Reading	Accuracy error	Barcode
210-7848	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717848
210-7855	200mm/8"	0.01mm/0.0005"	0.03mm	6971570717855
210-7862	300mm/12"	0.01mm/0.0005"	0.03mm	6971570717862

ABS Digital caliper



Top quality.
Accuracy according to DIN862.

- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Four way measurement
- With ORIGIN, MODE, INC and POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface



Art No.	Range	Reading	Accuracy error	Barcode
210-7817	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717817

Digital caliper



Top quality.
Accuracy according to DIN862.

- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- Stainless steel, hardened
- Four way measurement
- With INC, MODE, TOL and POWER/0 four buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report



C

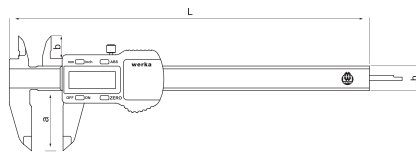
Art No.	Range	Reading	Accuracy error	Barcode
210-7909	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717909
210-7916	200mm/8"	0.01mm/0.0005"	0.03mm	6971570717916
210-7923	300mm/12"	0.01mm/0.0005"	0.03mm	6971570717923

Digital caliper



Made of stainless ,hardened

- New designed precision ang high quality construction
- Four way measurement
- With mm/inch, ABS, OFF/ON, ZERO four buttons
- Deliver with inspection report
- In plastic box, with 3V CR2032 battery



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	236	40	16.5	16
0-200	286	50	19.5	16
0-300	400	60	21.5	16

Art No.	Range	Reading	Accuracy error	Barcode
2236-150	0-150mm	0.01mm	0.02mm	6972727958299
2236-200	0-200mm	0.01mm	0.03mm	6972727958305
2236-300	0-300mm	0.01mm	0.03mm	6972727958312

Digital caliper



- Stainless steel, hardened
- Four way measurement
- Big LCD display
- With mm/inch, ON/OFF and ZERO 3 buttons
- Deliver in plastic box with 1.5V LR44 battery and inspection report



Art No.	Range	Reading	Accuracy error	Barcode	
210-8906	150mm/6"	0.01mm/0.0005"	0.03mm	6971570718906	
210-8913	200mm/8"	0.01mm/0.0005"	0.03mm	6971570718913	
210-8920	300mm/12"	0.01mm/0.0005"	0.03mm	6971570718920	
210-9033	150mm/6"	0.01mm/0.0005"	0.03mm	6971570719033	with removable thumbroll
210-9040	200mm/8"	0.01mm/0.0005"	0.03mm	6971570719040	with removable thumbroll
210-9057	300mm/12"	0.01mm/0.0005"	0.03mm	6971570719057	with removable thumbroll

Digital caliper

- Made of high strength and wear-resistant engineering plastic
- Large LCD display with clear reading
- With mm/inch, OFF/ON and ZERO three buttons
- Packed in plastic box with 1.5V battery



Art No.	Range	Reading	Barcode
210-9019	0-150 mm	0.1 mm	6971570719019

Digital tube thickness caliper



- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Designed for measuring the wall thickness of tube
- Big LCD display
- With ORIGIN, MODE, TOL and INC/POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface

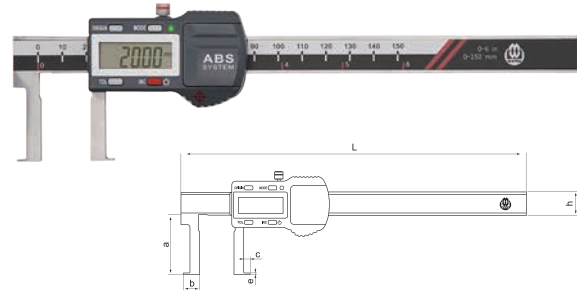


Art No.	Range	Reading	Barcode
214-8081	0-150mm/0-6"	0.01mm/0.0005"	6971570718081

Digital caliper for inside grooves



- For inside groove measuring
- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Four way measurement
- With ORIGIN, MODE, TOL and INC/POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface



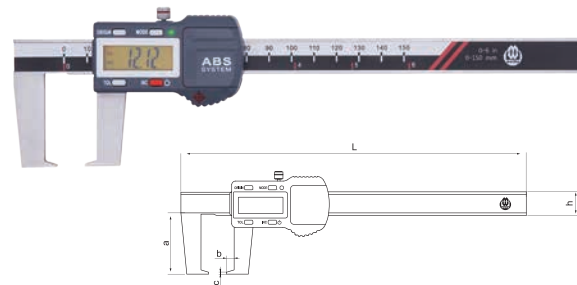
	L(mm)	a(mm)	b(mm)	c(mm)	e(mm)	h(mm)
20-150	235	36	10	4	1	16
25-200	287	46	12.5	5	1	16
30-300	390	56	15	5	1.5	16

Art No.	Range	Reading	Length of jaw	Accuracy error	Barcode
214-8050	20-150mm	0.01mm/0.0005"	36mm	0.03mm	6971570718050
2214-200	25-200mm	0.01mm/0.0005"	46mm	0.03mm	6972727952969
2214-300	30-300mm	0.01mm/0.0005"	56mm	0.04mm	6972727952976

Digital caliper for outside grooves



- For outside groove measuring
- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Four way measurement
- With ORIGIN, MODE, TOL and INC/POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface



	L(mm)	a(mm)	b(mm)	h(mm)
0-150	250	46	5	16

Art No.	Range	Reading	Length of jaw	Accuracy error	Barcode
214-8029	150mm/6"	0.01mm/0.0005"	40mm	0.03mm	6971570718029

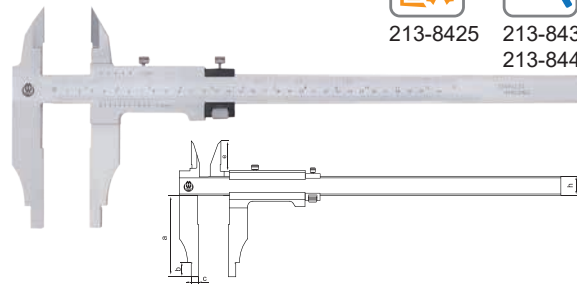
Workshop vernier caliper



213-8425

213-8432

213-8449



- Stainless steel, hardened
- Satin chrome finished
- Monoblock
- Knife points
- For outside and inside measurement
- With fine adjustment
- In plastic box
- Deliver with inspection report

	a(mm)	b(mm)	c(mm)	e(mm)	h(mm)
0-300	100	12	5	24.5	20

Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8425	0-300mm/0-12"	0.05mm/1/128"	100	±0.07mm	20mm	6971570718425
213-8432	0-500mm/0-20"	0.05mm/1/128"	150	±0.09mm	20mm	6971570718432
213-8449	0-1000mm/0-40"	0.05mm/1/128"	150	±0.10mm	20mm	6971570718449

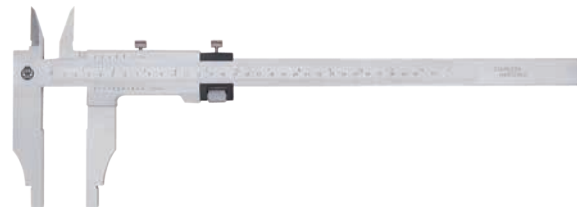
Workshop vernier caliper



213-8456

213-8463

213-8470



- Stainless steel, hardened
- Satin chrome finished
- Monoblock
- with cross points
- For outside and inside measurement
- With fine adjustment
- In plastic box
- Deliver with inspection report

Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8456	0-300mm/0-12"	0.05mm/1/128"	100	±0.07mm	20mm	6971570718456
213-8463	0-500mm/0-20"	0.05mm/1/128"	150	±0.09mm	20mm	6971570718463
213-8470	0-1000mm/0-40"	0.05mm/1/128"	150	±0.10mm	20mm	6971570718470

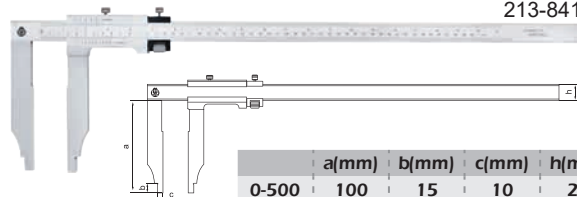
Workshop vernier caliper



213-8395

213-8401

213-8418



- Stainless steel, hardened
- Satin chrome finished
- Monoblock
- For outside and inside measurement
- With fine adjustment
- In plastic box
- Deliver with inspection report

	a(mm)	b(mm)	c(mm)	h(mm)
0-500	100	15	10	24
0-600	100	15	10	24
0-1000	150	24	10	31

Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8395	0-300mm/0-12"	0.05mm/1/128"	100	±0.07mm	20mm	6971570718395
213-8401	0-500mm/0-20"	0.05mm/1/128"	150	±0.09mm	20mm	6971570718401
213-8418	0-1000mm/0-40"	0.05mm/1/128"	150	±0.10mm	20mm	6971570718418

Workshop digital caliper



213-8609



213-8616
213-8623

- Stainless steel, hardened
- With knife points and fine adjustment
- With preset, mm/inch ,ABS, ZERO, OFF/ON six buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report



Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8609	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718609
213-8616	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718616
213-8623	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718623

Workshop digital caliper



213-8630



213-8647
213-8654

- Stainless steel, hardened
- With cross points and fine adjustment
- With preset, mm/inch ,ABS, ZERO, OFF/ON six buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report



Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8630	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718630
213-8647	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718647
213-8654	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718654

Workshop digital caliper

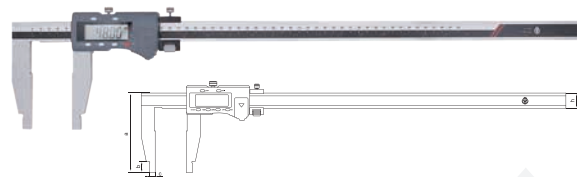


213-8579



213-8586
213-8593

- Stainless steel, hardened
- With fine adjustment
- With preset, mm/inch ,ABS, ZERO, OFF/ON six buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report



	a(mm)	b(mm)	c(mm)	h(mm)
0-500	150	18	10	24

Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8579	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718579
213-8586	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718586
213-8593	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718593

IP66 Water-proof Workshop digital caliper



213-8517



213-8524
213-8531

Attention: Be sure to keep the caliper away from heavy magnet or magnetic area



- With magnetic measuring system
- IP66 protection, water and dust resistant
- Stainless steel, hardened
- With knife points and fine adjustment
- With REL , mm/inch and ABS three buttons
- Zero setting , mm/inch convenient at any position
- Low battery alarm
- Deliver in plastic box with 3V CR2032 battery and inspection report

Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8517	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718517
213-8524	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718524
213-8531	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718531

IP66 Water-proof Workshop digital caliper



213-8548



213-8555
213-8562

Attention: Be sure to keep the caliper away from heavy magnet or magnetic area



- With magnetic measuring system
- IP66 protection, water and dust resistant
- Stainless steel, hardened
- With cross points and fine adjustment
- With REL , mm/inch and ABS three buttons
- Zero setting , mm/inch convenient at any position
- Low battery alarm
- Deliver in plastic box with 3V CR2032 battery and inspection report

Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8548	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718548
213-8555	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718555
213-8562	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718562

IP66 Water-proof Workshop digital caliper



213-8487



213-8494
213-8500

Attention: Be sure to keep the caliper away from heavy magnet or magnetic area

- With magnetic measuring system
- IP66 protection, water and dust resistant
- Stainless steel, hardened
- With fine adjustment
- With REL , mm/inch and ABS three buttons
- Zero setting , mm/inch convenient at any position
- Low battery alarm
- Deliver in plastic box with 3V CR2032 battery and inspection report



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Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8487	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718487
213-8494	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718494
213-8500	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718500

Digital gear tooth caliper

- Stainless steel, hardened
- For measuring gear thickness
- With mm/inch, ON/OFF and zero buttons
- Hardened jaw tips
- Deliver in wooden box with 1.5V battery



Art No.	Range	Reading	Accuracy error	Barcode
214-8739	m1-25	0.01mm/0.0005"	±0.04mm	6971570718739
214-8746	m5-50	0.01mm/0.0005"	±0.04mm	6971570718746

Digital disc brake caliper

- Stainless steel, hardened
- Designed for measuring the thickness of disc brake
- With one pointed anvil and one flat anvil
- Big LCD display
- With mm/inch, ON/OFF and ZERO 3 buttons
- Deliver in cardbox with 1.5V battery and inspection report



Art No.	Range	Reading	Barcode
214-9026	0-100x0.01mm/0-4x0.0005"	0.01mm/0.0005"	6971570719026

Digital disc brake caliper

- Stainless steel, hardened
- Designed for measuring the thickness of disc brake
- With two pointed anvils
- Big LCD display
- With mm/inch, ON/OFF and ZERO 3 buttons
- Deliver in plastic box with 1.5V battery



Art No.	Range	Reading	Barcode
214-8722	0-60mm/0-2.4"	0.01mm/0.0005"	6971570718722

DEPTH GAUGE

VERNIER DETPTH GAUGE

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DIGITAL DETPTH GAUGE

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DIGITAL TREAD DETPTH GAUGE

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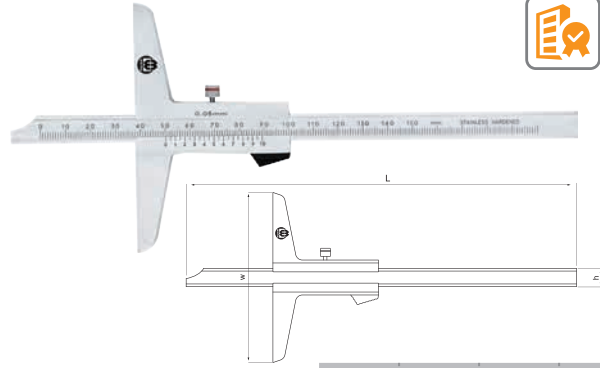


Vernier depth gauge



Accuracy according to DIN862.

- Made of stainless steel, hardened
- Scale and nonius satin chrome finished
- Double scales enable to use as normal depth gauge
- Packed in plastic box
- Deliver with inspection report



	L(mm)	w(mm)	h(mm)
0-150	245	100	11.5
0-200	282	100	11.5
0-300	382	100	11.5

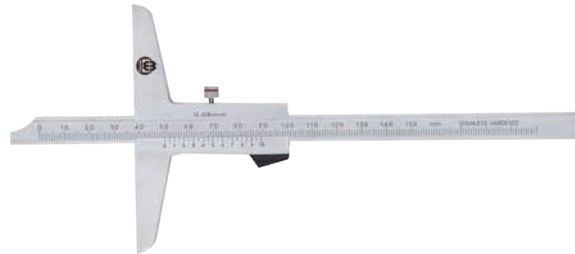
Art No.	Range	Reading	Length of base	Accuracy error	Barcode
2106-151	0-150mm	0.02mm	100mm	0.03mm	6972727950903
2106-201	0-200mm	0.02mm	100mm	0.03mm	6972727950910
2106-301	0-300mm	0.02mm	100mm	0.04mm	6972727950927

Vernier depth gauge



Accuracy according to DIN862.

- Made of stainless steel, hardened
- Scale and nonius satin chrome finished
- Packed in plastic box
- Deliver with inspection report



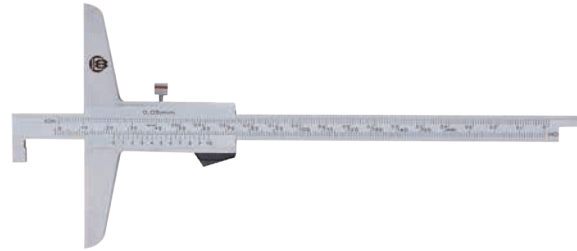
Art No.	Range	Reading	Length of base	Accuracy error	Barcode
211-0146	0-150mm	0.05mm	100mm	0.05mm	6971570710146
211-9507	0-200mm	0.05mm	100mm	0.05mm	6971570719507
211-0153	0-300mm	0.05mm	100mm	0.05mm	6971570710153
211-0160	0-500mm	0.05mm	150mm	0.07mm	6971570710160
211-0177	0-6"	0.001"	4"	0.05mm	6971570710177
211-0184	0-12"	0.001"	4"	0.05mm	6971570710184
211-0191	0-20"	0.001"	6"	0.07mm	6971570710191

Vernier depth gauge with single hook



Accuracy according to DIN862.

- Made of stainless steel, hardened
- Scale and nonius satin chrome finished
- Double scales enable to use as normal depth gauge
- Packed in plastic box
- Deliver with inspection report



Art No.	Range	Reading	Length of base	Accuracy error	Barcode
211-0207	0-150mm	0.05mm	100mm	0.05mm	6971570710207
211-0214	0-300mm	0.05mm	100mm	0.05mm	6971570710214

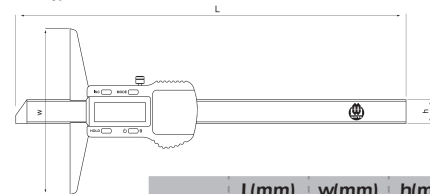


Digital depth gauge - IP67



Top quality.
Accuracy according to DIN862.

- IP67 protection, water and dust resistant
- Stainless steel, hardened
- Finely ground and lapped depth base
- New designed precision and high quality construction
- With INC, MODE, HOLD and POWER/0 four buttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



	L(mm)	w(mm)	h(mm)
0-150	232.5	100	14.5
0-200	285	100	14.5
0-300	390	100	14.5

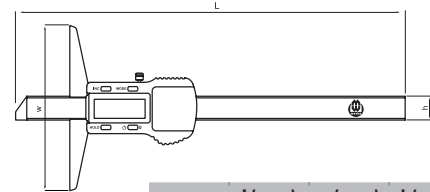
Art No.	Range	Reading	Length of base	Accuracy error	Barcode
211-7930	150mm/6"	0.01mm/0.0005"	100mm	0.03mm	6971570717930
211-7947	200mm/8"	0.01mm/0.0005"	100mm	0.03mm	6971570717947
211-7954	300mm/12"	0.01mm/0.0005"	150mm	0.04mm	6971570717954

Absolute digital depth gauge



Top quality.
Accuracy according to DIN862.

- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Fine ground and lapped depth base
- With ORIGIN, MODE, INC and POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface



	L(mm)	w(mm)	h(mm)
0-150	232.5	100	14.5
0-200	285	100	14.5
0-300	390	100	14.5

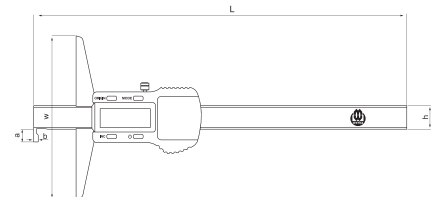
Art No.	Range	Reading	Length of base	Accuracy error	Barcode
211-7961	150mm/6"	0.01mm/0.0005"	100mm	±0.03mm	6971570717961
211-7978	200mm/8"	0.01mm/0.0005"	100mm	±0.03mm	6971570717978
211-7985	300mm/12"	0.01mm/0.0005"	150mm	±0.03mm	6971570717985

Absolute digital depth gauge with single hook



Top quality.
Accuracy according to DIN862.

- With hook
- Absolute system with 3V
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- No moving speed limit
- Stainless steel, hardened
- Finely ground and lapped depth base
- With ORIGIN, MODE, INC and POWER four buttons
- Deliver in plastic box with inspection report
- Data output with mini USB interface



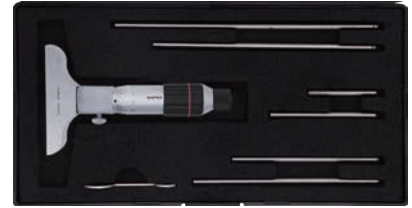
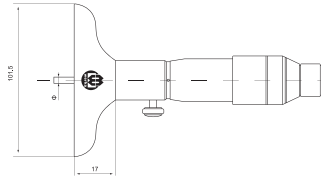
	L(mm)	w(mm)	h(mm)	a(mm)	b(mm)
0-150	232.5	100	14.5	5	2
0-200	285	100	14.5	5	2
0-300	390	100	14.5	5	2

Art No.	Range	Reading	Accuracy error	Length of base	Barcode
211-7992	150mm/6"	0.01mm/0.0005"	0.03mm	100mm	6971570717992
211-8005	200mm/8"	0.01mm/0.0005"	0.03mm	100mm	6971570718005
211-8012	300mm/12"	0.01mm/0.0005"	0.04mm	150mm	6971570718012

Depth micrometers



- Base 100x16mm
- Measuring inserts $\varnothing 4.5\text{mm}$ with spherical measuring face
- Inserts simply exchangeable
- With ratchet friction thimble
- Scale chrome finished
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-6193	0-150mm	0.01mm	0.005mm	6971570716193
217-6209	0-200mm	0.01mm	0.006mm	6971570716209
217-6216	0-300mm	0.01mm	0.007mm	6971570716216
217-6223	0-6"	0.001"	0.00020"	6971570716223
217-6230	0-8"	0.001"	0.00024"	6971570716230
217-6247	0-12"	0.001"	0.00028"	6971570716247

Digital depth gauge



- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Inserts simply exchangeable
- With ratchet friction thimble
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-6254	0-150mm/0-6"	0.001mm/0.00005"	0.003mm	6971570716254

Digital tread depth gauge

- A ideal tool for depth of tyre treads, narrow groove and hole with small dia. measurement
- With needle point
- Stainless steel, hardened
- With mm/inch, ON/OFF and ZERO 3 buttons
- Packed in cardbox



Art No.	Range	Reading	Length of base	Depth pin ϕ	Accuracy error	Barcode
211-8715	30mm/1.2"	0.01mm/0.0005"	60mm	1.5mm	0.02mm	6971570718715

Digital tread depth gauge

- Made of high strength and wear-resistant engineering plastic
- Large LCD display with clear reading
- With mm/inch, OFF/ON and ZERO three buttons
- Packed in cardbox with 1.5V battery



Art No.	Range	Reading	Length of base	Barcode
211-8937	25mm/1"	0.01mm/0.0005"	60mm	6971570718937

HEIGHT MEASUREMENT

PRECISION DIGITAL
HEIGHT GAUGE

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VERNIER HEIGHT GAUGE

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DIAL HEIGHT GAUGE

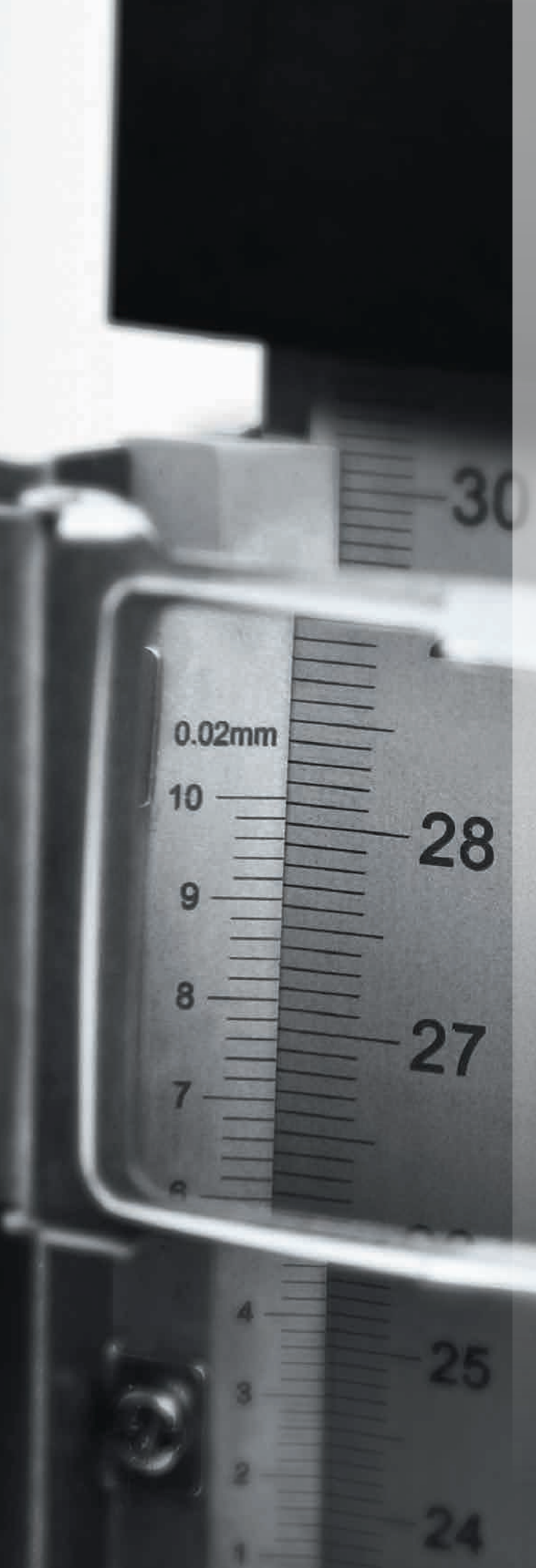
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DIGITAL HEIGHT GAUGE

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Height gauge Probe Z3/Probe Z6



Werka provides two ranges of 300mm(Probe Z3) and 600mm(Probe Z6). Measuring range can be extended to 570mm and 870mm with the second holder.

Feature:

- Electronic control panel fully protected, dust and water proof
- Built-in air bearing
- WINCE operating system
- Glass grating measuring system
- Large color display
- Intuitive graphical display of survey items
- Temperature compensation function
- Independent mining point control
- USB data output interface

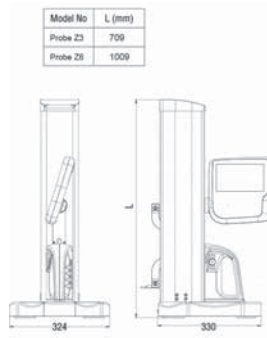
Standard Delivery:

Product Name	
Instrument main unit	Battery charger
Control panel	Wrench
Standard contact probe 5mm	M6 Set screw x2 pcs
Calibration block	Operation manual, Product certification, warranty card, Packin list
Rechargeable battery	

Panel:



N°	Description
1	Measuring features+numeric keyboard
2	Manul functions
3	Selection and confirmation

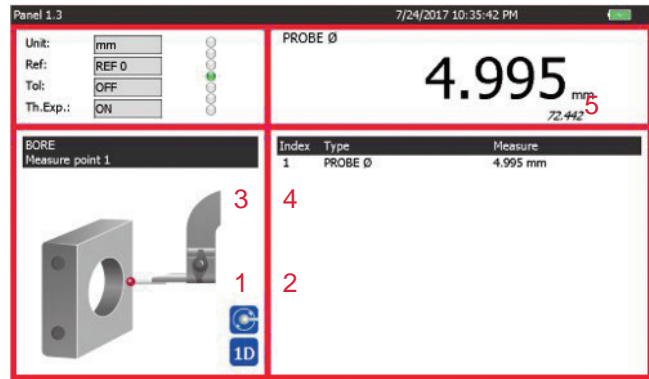


Specification:

Product Name	Height Gauge Probe Z3/Z6	
Art No.	2228-300	2228-600
Mode No.	Probe Z3	Probe Z6
Measuring range	300mm	600mm
Measuring range with second holder	570mm	870mm
Probe holder	Φ8	
Resolution	0.01/0.001/0.0001(mm)	
Measurement accuracy	±(2.6+5L)μm,with standard insert (L=m)	
Repeatability	surface ≤1μm,bore≤3μm	
Color screen	VGA,6.4"	
Max motorized movement speed	75mm/s	
Driving system	Motorized	
Measuring force(N)	1.5±0.5	
Working temperature(°C)	10°C ~30°C	
Storage temperature(°C)	-10°C ~60°C	
IP protection	IP40	
Unit display	mm/inch	
Total height	709mm	1009mm
Net weight	20KG	22KG

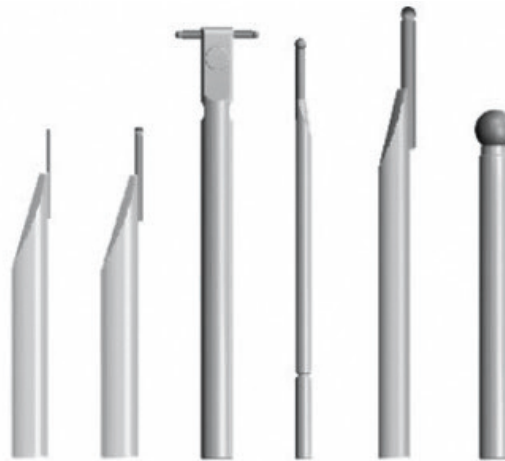
Software main view:

N°	Description
1	Steps description Active mode pictures Active mode icons
2	Actions history list
3	Panel options status: Active unit Active reference Tolerance management enable/disabled Probing force information(green,yellow,red) Thermal expansion function status
4	Current probe position Measurement status(if tolerance mode enabled)
5	Software main details: Name and version Hour Date Battery status



Optional Accessories:

Product Name	Size	Art No.
Mesuring probe	70x2mm(ball)	WP-2228-02
Mesuring probe	100x2mm(ball)	WP-2228-03
Mesuring probe	100x3mm(ball)	WP-2228-04
Mesuring probe	110x4mm(ball)	WP-2228-05
Mesuring probe	80x10mm(ball)	WP-2228-06
Vertical adapter	8mm&4mm	WP-2228-20
Parallel adapter	8mm&4mm	WP-2228-21



E



HEIGHT GAUGE

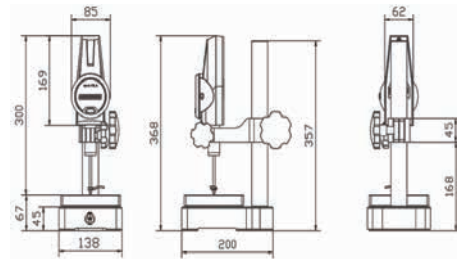
Precision digital height gauge



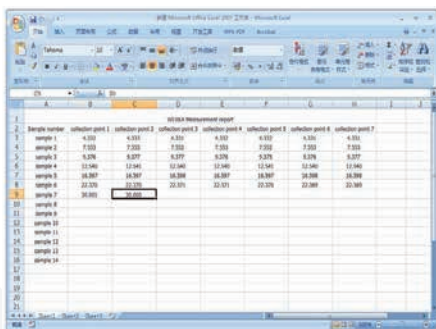
- High precision and stability
- Working table made of ceramic
- 7 bits high brightness LED display
- Zero setting at any position
- MAX,MIN,MAX-MIN measurement
- mm/inch easy to convert
- USB data output
- Packed in carton



Art No.	2231-50ST
Barcode	6972727952754
Measuring Range	0-50mm
Resolution	0.001mm
Accuracy	0.003mm
Measuring force	1.0~1.5N
Dimension of ceramic table	130x130mm
Response speed	Max 5000mm/s
Measuring tips	Conical tip, Flat tip, Ball tip
Working environment	Temperature 0~40°C , Humidity 20~80%
Power adaptor	AC 100~240V 50~60Hz, DC5V/1A
Size	200x138x397mm
Net weight	11.6KG



Analog keyboard entry
 Measurement data can be directly input into excel, word.
 Optional parts:
 WP-2231-01 USB data output cable and foot switch.



Vernier height gauge



216-7633



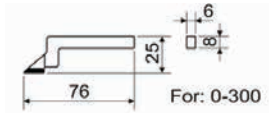
216-7640

Accuracy according to DIN862.

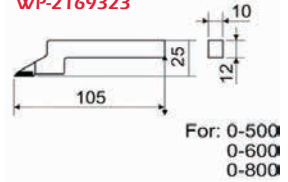
- Made of stainless steel
- With fine adjustment
- Carbide-tipped scriber
- Scale and nonius satin chrome finished
- Sturdy cast iron base, lacquered and lapped bottom working face
- Packed in plastic case with inspection report



WP-2169316



WP-2169323



Art No.	Range	Reading	Accuracy error	Barcode
216-7633	0-300mm	0.05mm	0.06mm	6971570717633
216-7640	0-600mm	0.05mm	0.10mm	6971570717640
216-7162	0-1000mm	0.05mm	0.10mm	6972727957162

Vernier height gauge with adjustable guide bar



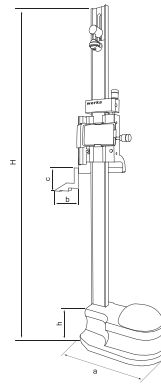
216-7657
216-7671



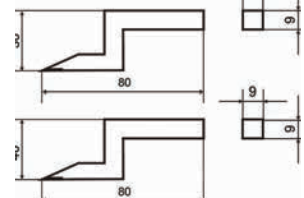
216-7664
216-7688

Accuracy according to DIN862.

- Made of stainless steel
- With fine adjustment
- Adjustable scale bar
- With magnifier for easy reading
- Carbide-tipped scriber
- Scale and nonius satin chrome finished
- Sturdy cast iron base, lacquered and lapped bottom working face
- Packed in cardbox with inspection report



WP-2169361 For 300



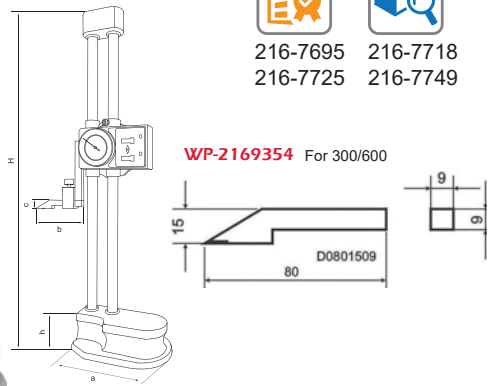
WP-2169378 For 600

	H(mm)	h(mm)	a(mm)	b(mm)	c(mm)
0-300	545	43	135	80	30
0-600	870	54	180	80	40

Art No.	Range	Reading	Accuracy error	Barcode
216-7657	0-300mm	0.02mm	0.04mm	6971570717657
216-7664	0-600mm	0.02mm	0.05mm	6971570717664
216-7671	0-300mm/12"	0.02mm/1/1000"	0.04mm	6971570717671
216-7688	0-600mm/24"	0.02mm/1/1000"	0.05mm	6971570717688

Dial vernier height gauge

- With two columns
- Made of stainless steel
- Carbide-tipped scriber
- Dial reading 0.01mm
- Double counters, one indicate in plus direction and one in minus direction
- Sturdy cast iron base, lacquered and lapped bottom working face
- Packed in cardbox with inspection report



216-7695 216-7718
216-7725 216-7749

	H(mm)	h(mm)	a(mm)	b(mm)	c(mm)
0-300	475	43	135	80	15
0-600	870	54	180	80	15

Art No.	Range	Reading	Accuracy error	Barcode
216-7695	0-300mm	0.01mm	0.04mm	6971570717695
216-7718	0-600mm	0.01mm	0.05mm	6971570717718
216-7725	0-12"	0.001"	0.04mm	6971570717725
216-7749	0-24"	0.001"	0.05mm	6971570717749

Digital height gauge

Made in Germany

- Enterprise standard
- Made of stainless steel
- With fine adjustment on gear rack
- Carbide tipped scriber
- Steel base with dirt grooves
- 3V CR2032 Lithium battery
- Two buttons: (ON/OFF, 0, HOLD), (REF, mm/inch)
- Packed in carton box
- Deliver with certificate

Optional: Data output proximity USB



Art No.	Range	Reading	Accuracy error	Barcode
2234-600	0-600mm	0.01mm	0.05mm	6972727957742

Digital height gauge

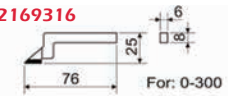
- Made of stainless steel
- With fine adjustment
- Carbide-tipped scriber
- With TOL, ON/OFF/PRE, HOLD, ZERO/ABS/, mm/in, DIR buttons
- Sturdy cast iron base, lacquered and lapped bottom working face
- Powered by 3V battery
- Packed in plastic case with inspection report



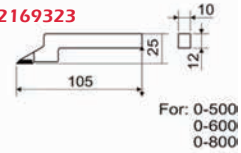
216-8661

216-8678
216-8685

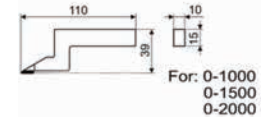
WP-2169316



WP-2169323



WP-2169330



Art No.	Range	Reading	Accuracy error	Barcode
216-8661	300mm/12"	0.01mm/0.0005"	0.04mm	6971570718661
216-8678	600mm/24"	0.01mm/0.0005"	0.05mm	6971570718678
216-8685	1000mm/40"	0.01mm/0.0005"	0.07mm	6971570718685

Digital height gauge with wheel

- With driving wheel
- Metal rack for long life
- Robustly constructed, stainless steel column
- Metal casing
- With fine adjustment
- Carbide-tipped scriber
- With on/off, mm/inch, zero and preset buttons
- Powered by battery 1.5V SR44
- Packed in cardbox with inspection report



216-8692

216-8708

WP-2169347 For 300/600



Art No.	Range	Reading	Accuracy error	Barcode
216-8692	300mm/12"	0.01mm/0.0005"	0.04mm	6971570718692
216-8708	600mm/24"	0.01mm/0.0005"	0.05mm	6971570718708

MICROMETERS

OUTSIDE MICROMETERS

-

DIGITAL MICROMETERS

-

INTERNAL MICROMETERS

-

THREE POINT INTERNAL MICROMETERS

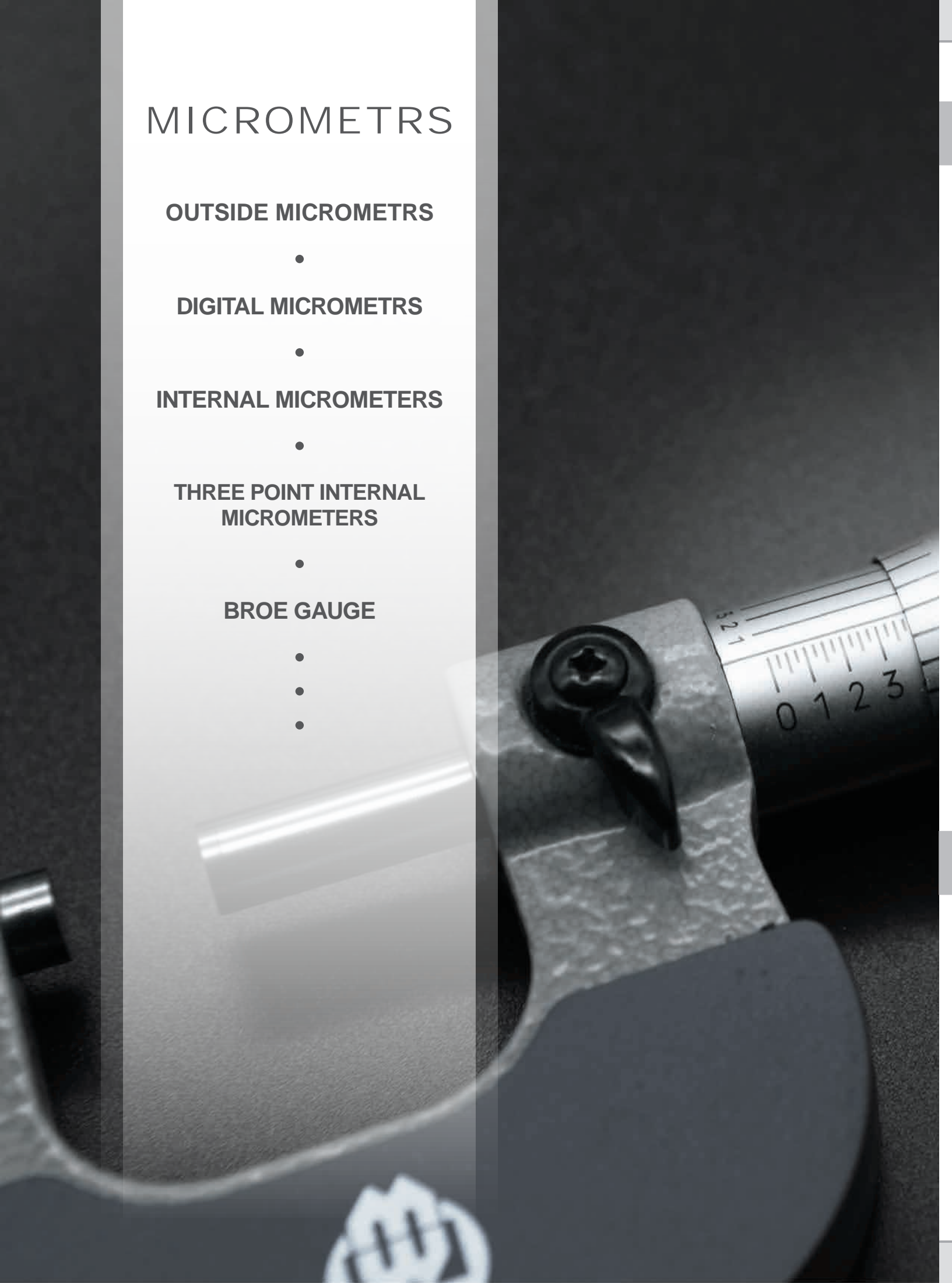
-

BROE GAUGE

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-



Outside micrometers



Accuracy according to DIN863.

- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chrome finished
- From size 25-50mm including setting gauge
- With adjusting key
- Deliver in carbox with inspection certificate



Art No.	Range	Reading	Accuracy error	Barcode
217-5400	0-25mm	0.01mm	0.004mm	6971570715400
217-5417	25-50mm	0.01mm	0.004mm	6971570715417
217-5424	50-75mm	0.01mm	0.005mm	6971570715424
217-5431	75-100mm	0.01mm	0.005mm	6971570715431
217-5448	100-125mm	0.01mm	0.006mm	6971570715448
217-5455	125-150mm	0.01mm	0.006mm	6971570715455
217-9583	150-175mm	0.01mm	0.007mm	6971570719583
217-9590	175-200mm	0.01mm	0.007mm	6971570719590
217-9606	200-225mm	0.01mm	0.008mm	6971570719606
217-9613	225-250mm	0.01mm	0.008mm	6971570719613
217-9620	250-275mm	0.01mm	0.009mm	6971570719620
217-9637	275-300mm	0.01mm	0.009mm	6971570719637
217-5462	0-1"	0.0001" inch	0.00015" inch	6971570715462
217-5479	1-2"	0.0001" inch	0.00015" inch	6971570715479
217-5486	2-3"	0.0001" inch	0.0002" inch	6971570715486
217-5493	3-4"	0.0001" inch	0.0002" inch	6971570715493
217-5509	4-5"	0.0001" inch	0.00025" inch	6971570715509
217-5516	5-6"	0.0001" inch	0.00025" inch	6971570715516

F

Outside micrometer set



- Accuracy according to DIN863
- 6pcs/set
- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chrome finished
- Deliver in aluminum box with inspection certificate



Art No.	Range	Reading	Content	Barcode
217-9576	0-150mm	0.01mm	0-25mm 25-50mm 50-75mm 75-100mm 100-125mm 125-150mm	6971570719576

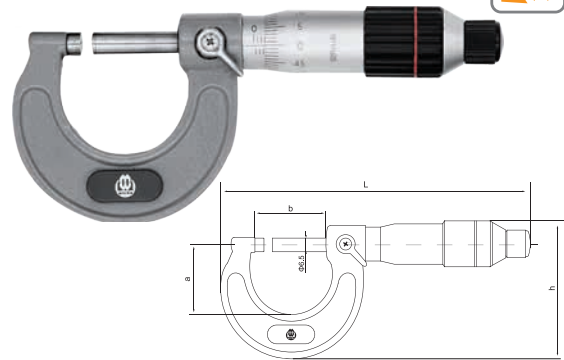


Outside micrometers



Accuracy according to DIN863.

- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chrome finished
- From size 25-50mm including setting gauge
- With adjusting key
- Deliver in cardbox with inspection certificate



Art No.	Range	Reading	Accuracy error	Barcode
217-5523	0-25mm	0.01mm	0.004mm	6971570715523
217-5530	25-50mm	0.01mm	0.004mm	6971570715530
217-5547	50-75mm	0.01mm	0.005mm	6971570715547
217-5554	75-100mm	0.01mm	0.005mm	6971570715554
217-5561	100-125mm	0.01mm	0.006mm	6971570715561
217-5578	125-150mm	0.01mm	0.006mm	6971570715578
217-5585	0-1"	0.0001" inch	0.00015" inch	6971570715585
217-5592	1-2"	0.0001" inch	0.00015" inch	6971570715592
217-5608	2-3"	0.0001" inch	0.0002" inch	6971570715608
217-5615	3-4"	0.0001" inch	0.0002" inch	6971570715615
217-5622	4-5"	0.0001" inch	0.00025" inch	6971570715622
217-5639	5-6"	0.0001" inch	0.00025" inch	6971570715639

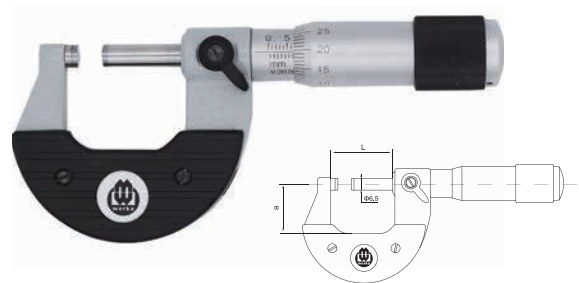
	L(mm)	a(mm)	b(mm)	h(mm)
0-25	133.8	29.5	31	58.5
25-50	160	38	56	76
50-75	185.5	51	81	91
75-100	210.5	63.5	106	105
100-125	237.3	76	131	125
125-150	263.8	89	156	142
150-175	288	101.5	186	154
175-200	315	114.5	211	173
200-225	341	127	237	192
225-250	367	139.5	262	211
250-275	394	152.5	288	229
275-300	420	165	313	248

Outside micrometers



Accuracy according to DIN863.

- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chromed finished
- From size 25-50mm including setting gauge
- With adjusting key
- Delivery in cardbox with inspection certificate



Art No.	Range	Reading	Barcode
3119-25	0-25mm	0.01mm	6972727958176
3119-50	25-50mm	0.01mm	6972727958183
3119-75	50-75mm	0.01mm	6972727958190
3119-100	50-75mm	0.01mm	6972727958206
3119-125	100-125mm	0.01mm	6972727958213
3119-150	125-150mm	0.01mm	6972727958220
3119-175	150-175mm	0.01mm	6972727958237
3119-200	175-200mm	0.01mm	6972727958244

	L(mm)	a(mm)
0-25	32.5	25.5
25-50	57.5	30.5
50-75	83	45
75-100	108	58
100-125	133	67.5
125-150	158	82
150-175	183	93
175-200	208	108

Outside micrometers



- 0.001mm/0.0001" reading, parallax-free by enlarged thimble
- With ratchet friction thimble
- Carbide measuring face
- Frame painted, scale chrome finished
- From size 25-50mm including setting gauge
- With adjusting key
- Deliver in cardbox with inspection certificate



Art No.	Range	Reading	Accuracy error	Barcode
217-5646	0-25mm	0.001mm	0.004mm	6971570715646
217-5653	25-50mm	0.001mm	0.004mm	6971570715653
217-5660	50-75mm	0.001mm	0.005mm	6971570715660
217-5677	75-100mm	0.001mm	0.005mm	6971570715677
217-5684	0-1"	0.0001" inch	0.00015" inch	6971570715684
217-5691	1-2"	0.0001" inch	0.00015" inch	6971570715691
217-5707	2-3"	0.0001" inch	0.00020" inch	6971570715707
217-5714	3-4"	0.0001" inch	0.00020" inch	6971570715714

F

Micrometer with interchangeable anvils



- Painted framed, with ratchet friction thimble and thimble chrome finished
- With exchangeable anvils
- With carbide measuring faces
- Spindle $\varnothing 8.0\text{mm}$
- With setting gauges
- Accuracy manufacturer standard
- Deliver in wooden box with inspection report



Art No.	Range	Reading	Anvils	Setting gauge	Barcode
217-5721	0-150mm	0.01mm	6	5	6971570715721
217-5738	150-300mm	0.01mm	6	5	6971570715738
217-5745	0-6"	0.0001"	6	5	6971570715745
217-5752	6-12"	0.0001"	6	5	6971570715752

Outside micrometer with interchangeable anvils



- With ratchet friction thimble
- Carbide measuring face
- Adjust collars for different measuring range
- Deliver in wooden case with inspection certificate

Art No.	Range	Reading	Barcode
3111-400	300-400mm	0.01mm	6972727952242
3111-500	400-500mm	0.01mm	6972727952259
3111-600	500-600mm	0.01mm	6972727952266
3111-700	600-700mm	0.01mm	6972727952273
3111-800	700-800mm	0.01mm	6972727952280
3111-900	800-900mm	0.01mm	6972727952297
3111-1000	900-1000mm	0.01mm	6972727952303

Digital outside micrometers IP54



Accuracy according to DIN863.

- IP54 protection, water and dust resistant
- Painted framed, with ratchet friction thimble
- Carbide measuring face
- With functions of mm/inch, zero setting at any position, power on/off
- From size 25-50mm including setting gauge
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-5806	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570715806
217-5813	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570715813
217-5820	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570715820
217-5837	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570715837
217-5844	100-125mm/4-5"	0.001mm/0.00005"	0.005mm	6971570715844
217-5851	125-150mm/5-6"	0.001mm/0.00005"	0.005mm	6971570715851

Digital outside micrometers IP54



Accuracy according to DIN863.

- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Painted framed, with ratchet friction thimble
- Carbide measuring face
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- From size 25-50mm including setting gauge
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-5868	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570715868
217-5875	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570715875
217-5882	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570715882
217-5899	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570715899
217-5905	100-125mm/4-5"	0.001mm/0.00005"	0.005mm	6971570715905
217-5912	125-150mm/5-6"	0.001mm/0.00005"	0.005mm	6971570715912

Digital outside micrometers IP65



Accuracy according to DIN863.

- Inductive measuring system
- IP65 protection, water and dust resistant
- Painted framed, with ratchet friction thimble
- Carbide measuring face
- With functions of mm/inch, zero setting at any position, power on/off and data hold
- From size 25-50mm including setting gauge
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



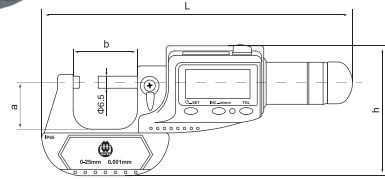
Art No.	Range	Reading	Accuracy error	Barcode
217-5929	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570715929
217-5936	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570715936
217-5943	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570715943
217-5950	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570715950
217-5967	100-125mm/4-5"	0.001mm/0.00005"	0.005mm	6971570715967
217-5974	125-150mm/5-6"	0.001mm/0.00005"	0.005mm	6971570715974

Digital outside micrometers IP65



Accuracy according to DIN863.

- A green LED light turn on when the reading is within preset tolerance limits
- Inductive measuring system
- IP65 protection, water and dust resistant
- Painted framed, with ratchet friction thimble
- Carbide measuring face
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- From size 25-50mm including setting gauge
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-5981	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570715981
217-5998	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570715998
217-6001	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570716001
217-6018	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570716018
217-6025	100-125mm/4-5"	0.001mm/0.00005"	0.005mm	6971570716025
217-6032	125-150mm/5-6"	0.001mm/0.00005"	0.005mm	6971570716032

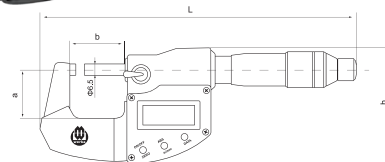
	L(mm)	a(mm)	b(mm)	h(mm)
0-25	156	25	32	63
25-50	185	31	57	80
50-75	212	44	82	95
75-100	240	56	107	113
100-125	269	68	132	128
125-150	296	81	157	146

Digital outside micrometers IP65



Accuracy according to DIN863.

- IP65 protection, water and dust resistant
- Painted framed, with ratchet friction thimble and thimble chrome finished
- Carbide measuring face
- With ON/OFF, in/mm and ZERO three buttons
- From size 25-50mm including setting gauge
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-6049	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570716049
217-6056	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570716056
217-6063	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570716063
217-6070	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570716070
217-6087	100-125mm/4-5"	0.001mm/0.00005"	0.005mm	6971570716087
217-6094	125-150mm/5-6"	0.001mm/0.00005"	0.005mm	6971570716094

	L(mm)	a(mm)	b(mm)	h(mm)
0-25	160	25	30	60
25-50	189	31	55	76
50-75	219	44	81	91
75-100	247	56	106	107
100-125	278	68	131	125
125-150	308	81	156	141

Digital tube thickness micrometers



- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Painted framed, with ratchet friction thimble
- With Spherical faces of fixed anvil
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-6100	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570716100
217-6117	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570716117
217-6124	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570716124
217-6131	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570716131

F

Digital point micrometers



- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Pointed spindle and anvil for measuring drills, grooves and hard-to-reach dimensions
- Painted framed, with ratchet friction thimble
- Carbide measuring points
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-6148	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570716148
217-6155	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570716155
217-6162	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570716162
217-6179	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570716179

Digital point micrometers



- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Pointed spindle for measuring drills, grooves and hard-to-reach dimensions
- Painted frame, with ratchet friction thimble
- Carbide measuring points
- With functions of mm/inch, zero setting at any position, power on/off and Tolerance setting
- Data output with mini USB interface
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report



Art No.	Range	Reading	Accuracy error	Barcode
217-6186	0-20mm/0-0.8"	0.001mm/0.00005"	0.003mm	6971570716186

Universal micrometers



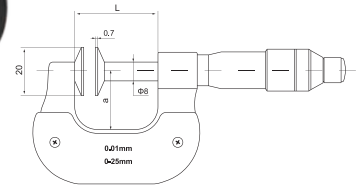
- With 7 pairs interchangeable inserts with $\phi 5\text{mm}$ shaft
- Non-rotating spindle $\phi 6.5\text{mm}$
- Ratchet friction thimble
- Painted frame, thimble chrome finished
- Accuracy to manufacturer standard
- From size 25-50mm including setting gauge
- Deliver in cardbox



Art No.	Range	Reading	Accuracy error	Barcode
217-5769	0-25mm	0.01mm	0.004mm	6971570715769
217-5776	25-50mm	0.01mm	0.004mm	6971570715776
217-5783	50-75mm	0.01mm	0.005mm	6971570715783
217-5790	75-100mm	0.01mm	0.005mm	6971570715790

Disk micrometers

- Non-rotating spindle $\varnothing 8\text{mm}$
- Painted frame, thimble chrome finished
- Ratchet friction thimble
- Accuracy to manufacturer standard
- Deliver in cardbox

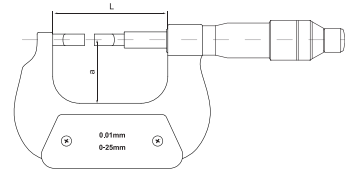
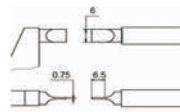


Art No.	Range	Reading	Accuracy error	Barcode
217-7329	0-25mm	0.01mm	0.004mm	6971570717329
217-7336	25-50mm	0.01mm	0.004mm	6971570717336
217-7343	50-75mm	0.01mm	0.005mm	6971570717343
217-7350	75-100mm	0.01mm	0.005mm	6971570717350

	L(mm)	a(mm)
0-25	34	24
25-50	59	32
50-75	85	45
75-100	110	57

Blade micrometers

- Non-rotating spindle $\varnothing 6.5\text{mm}$
- With measuring face $0.75 \times 6.5\text{mm}$
- Painted frame, thimble chrome finished
- Ratchet friction thimble
- Accuracy to manufacturer standard
- Size from size 25-50mm including setting gauge
- Deliver in cardbox



Art No.	Range	Reading	Accuracy error	Barcode
217-7282	0-25mm	0.01mm	0.004mm	6971570717282
217-7299	25-50mm	0.01mm	0.004mm	6971570717299
217-7305	50-75mm	0.01mm	0.005mm	6971570717305
217-7312	75-100mm	0.01mm	0.005mm	6971570717312

	L(mm)	a(mm)
0-25	57	32
25-50	82	44.5
50-75	107	57
75-100	132.6	69.5

Micrometer stand

- Cast iron base
- With adjustable angle and central clamp
- Clamp with rubber pads for protection the instruments
- For outside micrometers 0-100mm

Art No.	Barcode
217-6858	6971570716858



Inside micrometers(Single rod)

Carbide measuring faces

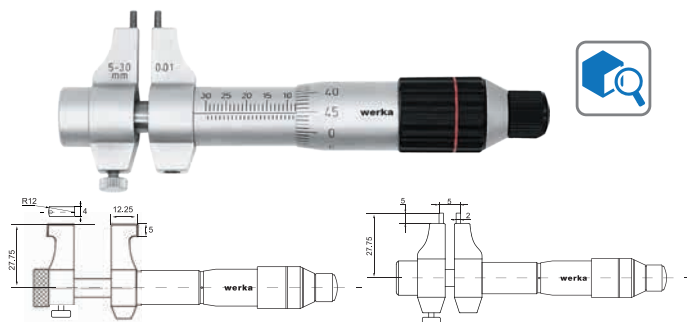
- Measuring width dimension:Min reading value is the optimal value when measuring width dimension
- Measuring internal diameter:Max reading value is the optimal value when measuring bore dimension



Art No.	Range	Reading	Accuracy error	Barcode
3110-75	50-75mm	0.01mm	0.005mm	6972727952068
3110-100	75-100mm	0.01mm	0.005mm	6972727952075
3110-125	100-125mm	0.01mm	0.006mm	6972727952082
3110-150	125-150mm	0.01mm	0.006mm	6972727952099
3110-175	150-175mm	0.01mm	0.007mm	6972727952105
3110-200	175-200mm	0.01mm	0.007mm	6972727952112
3110-225	200-225mm	0.01mm	0.008mm	6972727952129
3110-250	225-250mm	0.01mm	0.008mm	6972727952136
3110-275	250-275mm	0.01mm	0.009mm	6972727952143
3110-300	275-300mm	0.01mm	0.009mm	6972727952150
3110-325	300-325mm	0.01mm	0.009mm	6972727952167
3110-350	325-350mm	0.01mm	0.009mm	6972727952174
3110-375	350-375mm	0.01mm	0.010mm	6972727952181
3110-400	375-400mm	0.01mm	0.010mm	6972727952198
3110-425	400-425mm	0.01mm	0.010mm	6972727952204
3110-450	425-450mm	0.01mm	0.010mm	6972727952211
3110-475	450-475mm	0.01mm	0.011mm	6972727952228
3110-500	475-500mm	0.01mm	0.011mm	6972727952235

Internal micrometer

- With round carbide measuring face
- Thimble chrome finished
- With ratchet friction thimble
- Deliver in cardbox with inspection certificate

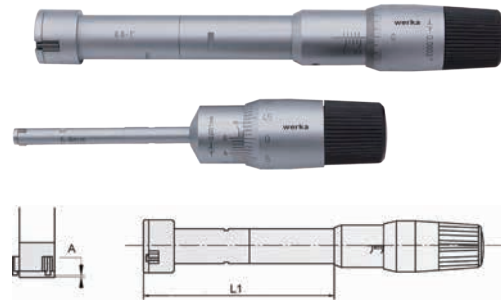


Art No.	Range	Reading	Accuracy error	Barcode	Remark
217-6261	5-30mm	0.01mm	0.005mm	6971570716261	with setting ring
217-6278	25-50mm	0.01mm	0.006mm	6971570716278	with setting ring
217-6285	50-75mm	0.01mm	0.007mm	6971570716285	
217-6292	75-100mm	0.01mm	0.008mm	6971570716292	
217-6308	0.2-1.2"	0.001" inch	0.0002"	6971570716308	with setting ring
217-6315	1-2"	0.001" inch	0.00024"	6971570716315	with setting ring
217-6322	2-3"	0.001" inch	0.00028"	6971570716322	
217-6339	3-4"	0.001" inch	0.00032"	6971570716339	

Three point internal micrometers



- For blind hole
- With carbide measuring points from 12mm
- Satin chrome finished
- With setting rings and extension
- Resolution:
within 12mm/0.5": 0.001mm(metric)0.0001"(inch)
over 12mm/0.5": 0.005mm(metric)0.0002"(inch)
- Packed in aluminum box with inspection certificate



Art No.	Range	Setting ringø	Measuring depth(L1)	Extension rods	Measuring tips(A)	Barcode
217-6346	6-8mm	6mm	53.5mm	100mm	1.5mm	6971570716346
217-6353	8-10mm	8mm	53.5mm	100mm	1.5mm	6971570716353
217-6360	10-12mm	10mm	53.5mm	100mm	1.5mm	6971570716360
217-6377	12-16mm	16mm	80mm	150mm	0.5mm	6971570716377
217-6384	16-20mm	16mm	80mm	150mm	0.5mm	6971570716384
217-6391	20-25mm	25mm	90mm	150mm	0.5mm	6971570716391
217-6407	25-30mm	25mm	90mm	150mm	0.5mm	6971570716407
217-6414	30-40mm	40mm	97mm	150mm	0.5mm	6971570716414
217-6421	40-50mm	40mm	97mm	150mm	0.5mm	6971570716421
217-6438	50-63mm	62mm	114mm	150mm	0.5mm	6971570716438
217-6445	62-75mm	62mm	114mm	150mm	0.5mm	6971570716445
217-6452	75-88mm	87mm	114mm	150mm	0.5mm	6971570716452
217-6469	87-100mm	87mm	114mm	150mm	0.5mm	6971570716469

Art No.	Range	Setting ringø	Measuring depth(L1)	Extension rods	Measuring tips(A)	Barcode
217-6513	0.275-0.35"inch	0.275"inch	2.18"inch	4"	0.06"	6971570716513
217-6520	0.35-0.425"inch	0.35"inch	2.18"inch	4"	0.06"	6971570716520
217-6537	0.425-0.5"inch	0.5"inch	2.18"inch	4"	0.06"	6971570716537
217-6544	0.5-0.65"inch	0.65"inch	3.2"inch	6"	0.02"	6971570716544
217-6551	0.65-0.8"inch	0.65"inch	3.2"inch	6"	0.02"	6971570716551
217-6568	0.8-1"inch	1"inch	3.6"inch	6"	0.02"	6971570716568
217-6575	1-1.2"inch	1"inch	3.6"inch	6"	0.02"	6971570716575
217-6582	1.2-1.6"inch	1.6"inch	3.88"inch	6"	0.02"	6971570716582
217-6599	1.6-2"inch	1.6"inch	3.88"inch	6"	0.02"	6971570716599
217-6605	2-2.5"inch	2.5"inch	4.56"inch	6"	0.02"	6971570716605
217-6612	2.5-3"inch	2.5"inch	4.56"inch	6"	0.02"	6971570716612
217-6629	3-3.5"inch	3.5"inch	4.56"inch	6"	0.02"	6971570716629
217-6636	3.5-4"inch	3.5"inch	4.56"inch	6"	0.02"	6971570716636

Three point internal micrometer set



- Set of three points internal micrometers
- With setting rings and extension rods
- Packed in aluminum box with inspection certificate



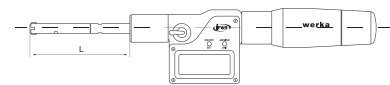
Art No.	Range	Setting ring ø	Extension rods	Measuring tips	Barcode
217-6476	6-12mm(3pcs)	6, 8, 10mm	100mm	1.5mm	6971570716476
217-6483	12-20mm(2pcs)	16mm	150mm	0.5mm	6971570716483
217-6490	20-50mm(4pcs)	25, 40mm	150mm	0.5mm	6971570716490
217-6506	50-100mm(4pcs)	62,87mm	150mm	0.5mm	6971570716506

Art No.	Range	Setting ring ø	Extension rods	Measuring tips	Barcode
217-6643	0.275-0.5"inch(3pcs)	0.275", 0.35", 0.5"	4"	0.02"	6971570716643
217-6650	0.5-0.8"inch(2pcs)	0.65"	6"	0.02"	6971570716650
217-6667	0.8-2"inch(4pcs)	1", 1.6"	6"	0.02"	6971570716667
217-6674	2-4"inch(4pcs)	2.5", 3.5"	6"	0.02"	6971570716674

Digital three point internal micrometers



- IP65 protection, water and dust resistant
- For blind hole
- With carbide measuring points from 12mm
- Satin chrome finished
- With setting rings and extension
- Button: ON/OFF/SET, ABS/INC/UNIT
- Packed in aluminum box with inspection certificate



Art No.	Range	Setting ring ø	Measuring depth(L1)	Extension rods	Measuring tips(A)	Barcode
217-7466	6-8mm/0.275-0.35"	6mm	54.5mm	100mm	1.5mm	6971570717466
217-7473	8-10mm/0.35-0.425"	8mm	54.5mm	100mm	1.5mm	6971570717473
217-7480	10-12mm/0.425-0.5"	10mm	54.5mm	100mm	1.5mm	6971570717480
217-7497	12-16mm/0.5-0.65"	16mm	80mm	150mm	0.5mm	6971570717497
217-7503	16-20mm/0.65-0.8"	16mm	80mm	150mm	0.5mm	6971570717503
217-7510	20-25mm/0.8-1"	25mm	90mm	150mm	0.5mm	6971570717510
217-7527	25-30mm/1-1.2"	25mm	90mm	150mm	0.5mm	6971570717527
217-7534	30-40mm/1.2-1.6"	40mm	97mm	150mm	0.5mm	6971570717534
217-7541	40-50mm/1.6-2"	40mm	97mm	150mm	0.5mm	6971570717541
217-7558	50-63mm/2-2.5"	62mm	114mm	150mm	0.5mm	6971570717558
217-7565	62-75mm/2.5-3"	62mm	114mm	150mm	0.5mm	6971570717565
217-7572	75-88mm/3-3.5"	87mm	114mm	150mm	0.5mm	6971570717572
217-7589	87-100mm/3.5-4"	87mm	114mm	150mm	0.5mm	6971570717589

Bore gauge



WITH DIAL INDICATORS

Art No.	Range		Reading	Measuring depth	Accuracy error	Repeatability	Barcode
220-7114	6-10mm	Dial indicator 0-5x0.01mm	0.01mm	40mm	±0.012mm	0.003mm	6971570717114
220-7121	10-18mm		0.01mm	100mm	±0.012mm	0.003mm	6971570717121
220-7169	0.24-0.4"(inch)	Dial indicator 0-0.5x0.0005"(inch)	0.0005"(inch)	40mm	±0.012mm	0.003mm	6971570717169
220-7176	0.4-0.7"(inch)		0.0005"(inch)	100mm	±0.012mm	0.003mm	6971570717176

WITH DIAL INDICATORS

Art No.	Range		Reading	Measuring depth	Accuracy error	Repeatability	Barcode
220-7138	18-35mm	Dial indicator 0-10x0.01mm	0.01mm	150mm	±0.015mm	0.003mm	6971570717138
220-7145	35-50mm		0.01mm	150mm	±0.018mm	0.003mm	6971570717145
220-7152	50-160mm		0.01mm	150mm	±0.018mm	0.003mm	6971570717152
220-9552	160-250mm		0.01mm	250mm	±0.018mm	0.003mm	6971570719552
220-9569	250-450mm		0.01mm	250mm	±0.018mm	0.003mm	6971570719569
220-7183	0.7-1.5"(inch)	Dial indicator 0-0.5x0.0005"(inch)	0.0005"(inch)	6"(inch)	±0.015mm	0.003mm	6971570717183
220-7190	1.4-2.4"(inch)		0.0005"(inch)	6"(inch)	±0.018mm	0.003mm	6971570717190
220-7206	2-6"(inch)		0.0005"(inch)	6"(inch)	±0.018mm	0.003mm	6971570717206

WITH DIGITAL INDICATORS

Art No.	Range		Reading	Measuring depth	Accuracy error	Repeatability	Barcode
221-7213	6-10mm	Digital indicator 0-12.7x0.002mm (221-9217)	0.002mm	40mm	±0.012mm	0.003mm	6971570717213
221-7220	10-18mm		0.002mm	100mm	±0.012mm	0.003mm	6971570717220
221-9255	6-10mm	Digital indicator 0-12.7x0.001mm (221-9224)	0.001mm	40mm	±0.005mm	0.002mm	6971570719255
221-9262	10-18mm		0.001mm	100mm	±0.005mm	0.002mm	6971570719262

WITH DIGITAL INDICATORS

Art No.	Range		Reading	Measuring depth	Accuracy error	Repeatability	Barcode
221-7237	18-35mm	Digital indicator 0-12.7x0.002mm (221-9217)	0.002mm	150mm	±0.015mm	0.003mm	6971570717237
221-7244	35-50mm		0.002mm	150mm	±0.018mm	0.003mm	6971570717244
221-7251	50-160mm		0.002mm	150mm	±0.018mm	0.003mm	6971570717251
221-9279	18-35mm	Digital indicator 0-12.7x0.001mm (221-9224)	0.001mm	150mm	±0.006mm	0.002mm	6971570719279
221-9286	35-50mm		0.001mm	150mm	±0.007mm	0.002mm	6971570719286
221-9293	50-160mm		0.001mm	150mm	±0.007mm	0.002mm	6971570719293

Bore Gauge Set with Dial Indicator

- 3 gauges
- With a 0-10mm dial indicator
- WERKA test certificate
- Robust plastic case

Art No.	Incl.	Resolution	Barcode
4106-S03	18-35/35-50/50-160	0.01mm	6972727953034



Bore Gauge Set with Digital Indicator

- 3 gauges
- With a 0-12.7mm digital indicator
- WERKA test certificate
- Robust plastic case

Art No.	Incl.	Resolution	Barcode
4206-S03	18-35/35-50/50-160	0.002mm	6972727953041



Bore Gauge Zero Setter

- Made in Germany
- Adjust the bore gauge to calibrated size with the setter and gauge blocks
- Carbide setting claws
- For vertical and horizontal use
- Delivery without gauge blocks
- High quality carton

Art No.	Range	Tolerance	Barcode
4119-290	18-290mm	2µm	6972727953607
4119-510	160-510mm	2µm	6972727957070



Telescoping gauge set

- 6pcs/set
- Satin chrome finish
- Suitable for quick measuring inside diameter of holes and slots width
- Packed in plastic box



Art No.	Range	Gauges	Barcode
260-006	8-150mm	"8-12.7mm, 12.7-19mm, 19-32mm, 32-54mm, 54-90mm, 90-150mm"	6972727950897

Flexible ID Measuring Tape

- Made in Germany
- For profile measurement, inner diameter measurement of cylinder and oval-shaped objects
- With scale ring and vernier
- Tape width: 20mm
- Reading: 0.1mm
- With workshop's test certificate

Art No.	Range	Barcode
6605-040	22-40mm	6972727954017
6605-060	35-60mm	6972727954024
6605-100	55-100mm	6972727954031
6605-180	95-180mm	6972727954048

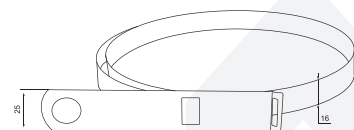


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Circumference Measuring Tape

- Made in Germany
- Stainless steel
- DIN866
- For outer circumference and diameter measurement
- Scale 1mm
- 0.1mm laser engraved graduation on the vernier
- Tape width: 16mm
- Incl. workshop's test certificate

Art No.	Range	Barcode
6604-020	20-300/60-950mm	6972727953980
6604-300	300-700/940-2200mm	6972727953997
6604-700	700-1100/2190-3460mm	6972727954000



INDICATOR

DIAL INDICATOR

•

DIGITAL INDICATOR

•

DIAL TEST INDICATOR

•

CLAMPING HOLDER

•

THICKNESS GAUGE

•

MAGNETIC STAND

•

PRECISION COMPARATOR STAND

•

MEASURING TOOLS SET

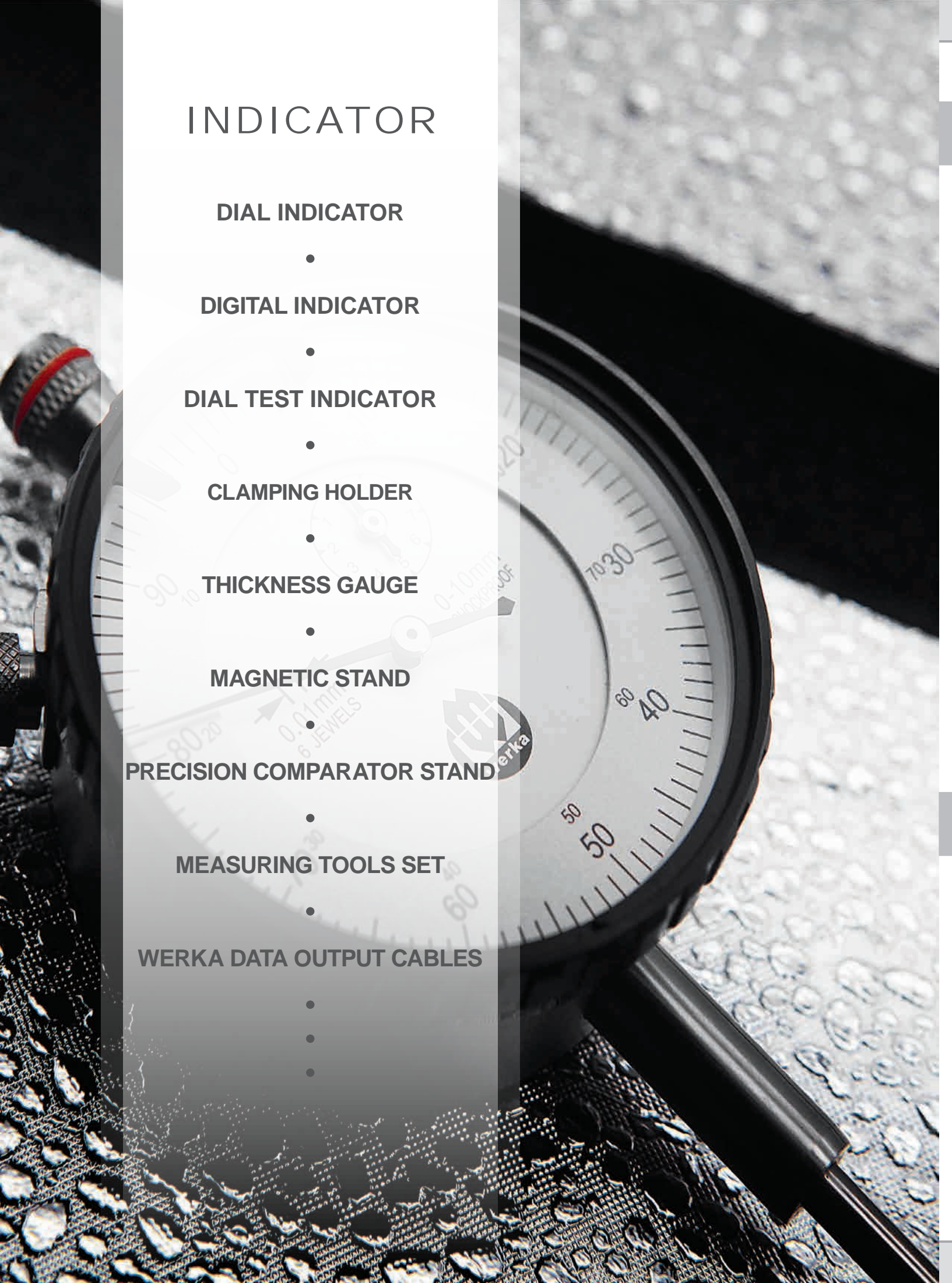
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WERKA DATA OUTPUT CABLES

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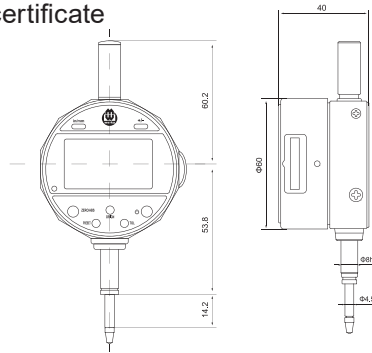
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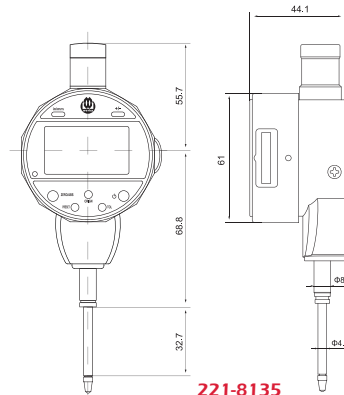
Digital indicator



- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V battery
- Scale with glass rail for precision sampling
- Stem $\varnothing 8\text{mm}$ h6
- Display rotatable 0-330° for easy reading at different position
- With buttons: in/mm, +/- (For measuring direction) ZERO/ABS, PRESET, ORIGIN, TOL and power
- Data output with mini USB interface
- With flat back and one lug back as accessory
- Packed in plastic box
- Deliver with certificate



221-8128



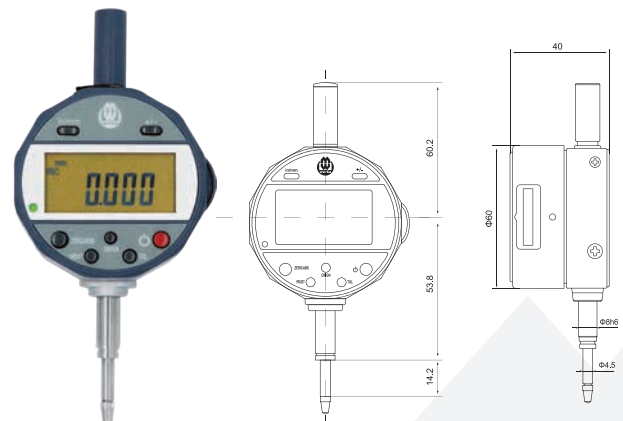
221-8135

Art No.	Range	Reading	Accuracy error	Barcode
221-8128	0-12.7mm/0-0.5"	0.01mm/0.0005"	0.01mm	6971570718128
221-8135	0-25mm/0-1"	0.01mm/0.0005"	0.01mm	6971570718135

Digital indicator



- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V battery
- Scale with glass rail for precision sampling
- Stem $\varnothing 8\text{mm}$ h6
- Display rotatable 0-330° for easy reading at different position
- With buttons: in/mm, +/- (For measuring direction) ZERO/ABS, PRESET, ORIGIN, TOL and power
- Data output with mini USB interface
- With flat back and one lug back as accessory
- Packed in plastic box
- Deliver with certificate



Art No.	Range	Reading	Accuracy error	Barcode
221-8142	0-12.7mm/0-0.5"	0.001mm/0.00005"	0.004mm	6971570718142

Digital indicator

- Large display for easy reading
- Scale with glass rail for precision sampling
- Stem $\varnothing 8\text{mm}$ h6
- With buttons: in/mm, ABS and ZERO/ON
- Preset function
- With data output
- Flat back
- Packed in plastic box with 3V CR2032 battery
- Deliver with certificate



Art No.	Range	Reading	Barcode
221-9095	0-12.7mm/0-0.5"	0.01mm/0.0005"	6971570719095
221-9101	0-25.4mm/0-1"	0.01mm/0.0005"	6971570719101
221-9118	0-50.8mm/0-2"	0.01mm/0.0005"	6971570719118
221-9125	0-12.7mm/0-0.5"	0.001mm/0.00005"	6971570719125
221-9132	0-25.4mm/0-1"	0.001mm/0.00005"	6971570719132
221-9149	0-50.8mm/0-2"	0.001mm/0.00005"	6971570719149

Digital indicator

- Large display for easy reading
- Scale with glass rail for precision sampling
- Stem $\varnothing 8\text{mm}$ h6
- With analog pointer
- Tolerance range setting, deviation judgement
- Max and Min data can be searched and stored
- Metric and inch conversion
- Absolute and relative measurement, data preset
- With USB data output
- Buttons: in/mm, ABS, ZERO/ON, T, M
- Flat back
- Packed in plastic box with 3V CR2032 battery
- Deliver with certificate



Art No.	Range	Reading	Barcode
221-9156	0-12.7mm/0-0.5"	0.01mm/0.0005"	6971570719156
221-9163	0-25.4mm/0-1"	0.01mm/0.0005"	6971570719163
221-9170	0-50.8mm/0-2"	0.01mm/0.0005"	6971570719170
221-9187	0-12.7mm/0-0.5"	0.001mm/0.00005"	6971570719187
221-9194	0-25.4mm/0-1"	0.001mm/0.00005"	6971570719194
221-9200	0-50.8mm/0-2"	0.001mm/0.00005"	6971570719200

Digital indicator for bore gauge

- Designed specially for bore gauges
- With analog pointer
- Scale with glass rail for precision sampling
- Min data searched and stored
- Buttons: START, ABS, ZERO/ON, CAL, M
- With USB data output
- Flat back
- Packed in plastic box with 3V CR2032 battery
- Deliver with certificate

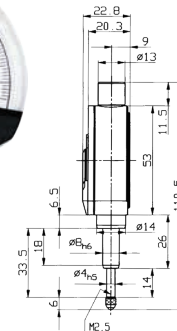


Art No.	Range	Reading	Barcode
221-9217	0-12.7mm	0.002mm	6971570719217
221-9224	0-12.7mm	0.001mm	6971570719224

Mechanical dial comparator

Made in Germany.
Designed to check parallelism, smoothness and through running.

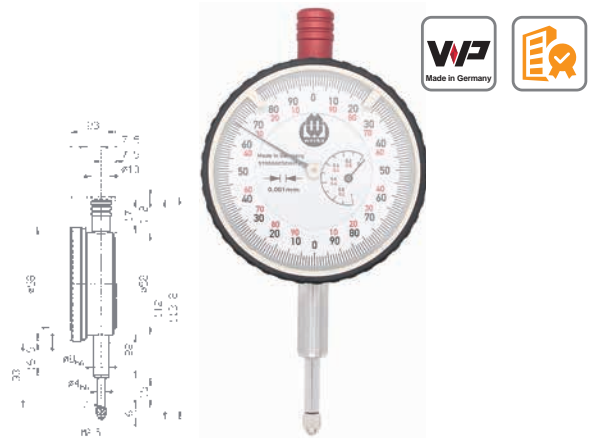
- Jeweled and shockproof
- Sturdy housing with stable plastic cover
- Inside Tolerance markers; fine adjustment
- Stem $\varnothing 8\text{mm h6}$
- Contact point M2.5
- Deliver with certificate
- packed in plastic box



Art No.	Range	Reading	Barcode
223-7619	0.1(± 0.05)mm	0.001mm	6971570717619

Shock-proof Dial Indicator

- Made in Germany
- DIN EN ISO463
- Shock-proof
- Metal housing
- Metal outer ring, adjustable tolerance fingers
- 8mm h6 lower casing
- Black flat cover
- Incl. test certificate



Art No.	Range	Reading	Diameter	Barcode
220-10053	0-1mm	0.001mm	58mm	6972727957766

Oil/Water Proof Dial indicator

- Made in Germany
- DIN 878
- IP67: dust proof, oil and water proof
- Metal housing
- Metal outer ring, adjustable tolerance fingers
- 8mm h6 lower casing
- Black flat cover
- Incl. test certificate



Art No.	Range	Reading	Diameter	Barcode
220-10127	0-10mm	0.01mm	61.5mm	6972727957780

Precision dial indicator

- Reading 0.001mm
- Metal casing
- Inside Tolerance markers
- Stem $\varnothing 8\text{mm h6}$
- With flat back (Back with lug available on request)
- Conforms to manufacturer standard
- Packed in cardbox
- Deliver with certificate



Art No.	Range	Reading	Bezel Dia.	Barcode
220-6957	0-1mm	0.001mm	58mm	6971570716957

Dial indicator



- DIN878
- Metal casing
- Inside Tolerance markers
- Stem $\varnothing 8\text{mm h6}$
- Normal model or shock proof model available
- With flat back and one lug back as accessory
- Packed in cardbox
- Deliver with certificate

Art No.	Range	Reading	Remark	Bezel Dia.	Barcode
220-6964	0-10mm	0.01mm	normal	58mm	6971570716964
220-6971	0-10mm	0.01mm	shockproof	58mm	6971570716971

Dial indicator



- DIN878
- Metal casing
- Stem $\varnothing 8\text{mm h6}$
- Inside tolerance markers
- With flat back
- Packed in cardbox
- Deliver with certificate

Art No.	Range	Reading	Bezel Dia.	Barcode
220-9231	0-5mm	0.01mm	42mm	6971570719231

Inch dial indicator



- Aluminum casing
- Lifting screw with cushion rubber
- Inside Tolerance markers
- Stem $\varnothing 3/8"$
- With lug back
- Packed in cardbox
- Deliver with certificate

Art No.	Range	Reading	Barcode
220-7008	0-0.5"inch	0.001"inch	6971570717008
220-7015	0-1"inch	0.001"inch	6971570717015
220-7022	0-0.5"inch	0.0005"inch	6971570717022
220-7039	0-1"inch	0.0005"inch	6971570717039

Dial indicator



- Metal casing
- Inside Tolerance markers
- Stem $\varnothing 8\text{mm h6}$
- With flat back (Back with lug available on request)
- Conforms to manufacturer standard
- Packed in cardbox
- Deliver with certificate



Art No.	Range	Reading	Bezel Dia.	Stem Dia.	Barcode
220-6988	0-30mm	0.01mm	58mm	8mm	6971570716988
220-6995	0-50mm	0.01mm	58mm	8mm	6971570716995



INDICATOR

Dial Test Indicator



With high sensitivity and high precision for professional use or higher requirements of concentricity and runout.

- Made in Germany
- DIN 2270
- IP53: water-proof plastic casing
- Solid brass housing, highly anti-magnetic
- Bidirectional measurements
- Probe turning angle: 240°
- Probe length: 12.8mm
- Attachment: a 8mm clamp holder, a spanner (for probe replacement)
- Incl. test certificate



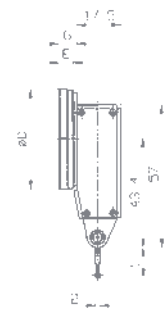
Art No.	Range	Reading	Diameter	Barcode
223-30078	0-0.2mm	0.001mm	40mm	6972727957742

Dial Test Indicator



With high sensitivity and high precision for professional use or higher requirements of concentricity and runout.

- Made in Germany
- DIN 2270
- Solid brass housing, highly anti-magnetic
- Bidirectional measurements
- Probe turning angle: 240°
- Probe length: 12.8mm
- Attachment: a 8mm clamp holder, a spanner (for probe replacement)
- Incl. test certificate

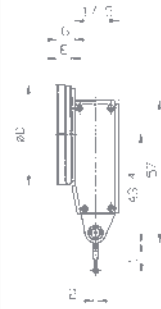


G(mm)	E(mm)	L(mm)	D(mm)
7.5	6.0	12	40

Art No.	Range	Reading	Diameter	Barcode
223-30040	0-0.2mm	0.002mm	40mm	6972727957759

Dial Test Indicator

- Made in Germany
- DIN 2270
- With shock absorbing mechanism
- Solid brass housing, highly anti-magnetic
- Bidirectional measurements
- Probe turning angle:240°
- Probe length:35.7mm
- Attachment: a 8mm clamp holder, a spanner (for probe replacement)
- Black flat cover
- Incl. test certificate

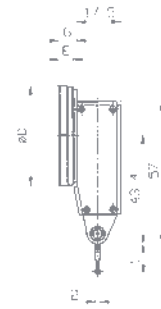


G(mm)	E(mm)	L(mm)	D(mm)
7.1	5.6	12	32

Art No.	Range	Reading	Diameter	Barcode
223-30025	0-0.8mm	0.01mm	32mm	6972727957728

Long Probe Dial Test Indicator

- Made in Germany
- DIN 2270
- With shock absorbing mechanism
- Solid brass housing, highly anti-magnetic
- Bidirectional measurements
- Probe turning angle:240°
- Probe length:35.7mm
- Attachment: a 8mm clamp holder, a spanner (for probe replacement)
- Incl. test certificate



G(mm)	E(mm)	L(mm)	D(mm)
7.1	5.6	35	32

Art No.	Range	Reading	Diameter	Barcode
223-30028	0-0.5mm	0.01mm	32mm	6972727957735

Dial test indicators



- High performance of magnetic proof because of high quality brass main body
- Jeweled bearing for high sensitivity and long life
- Carbide contact point $\varnothing 2\text{mm}$ for long life
- 230° big turning range of stylus
- Total 3 dovetails for fixing attachments
- Supply with accessories: clamping stems $\varnothing 6\text{mm}$ and $\varnothing 8\text{mm}$
- Packed in card box
- Deliver with certificate

Art No.	Range	Reading	Dia of dial ring	Length of stylus	Barcode
220-7046	0-0.8mm	0.01mm	30mm	16.5mm	6971570717046
220-7053	0-0.8mm	0.01mm	37.5mm	16.5mm	6971570717053
220-7060	0-0.8mm	0.002mm	37.5mm	16mm	6971570717060
4104-28	0-0.8mm	0.01mm	37.5mm	46.4mm	6972727951542
4104-001	0-0.12mm	0.001mm	38mm	16.5mm	6972727952808

Dial test indicators



- High performance of magnetic proof because of high quality brass main body
- Jeweled bearing for high sensitivity and long life
- Carbide contact point $\varnothing 0.08\text{''}$ for long life
- 230° big turning range of stylus
- Total 3 dovetails for fixing attachments
- Supply with accessories: clamping stems $\varnothing 1/4\text{''}$ and $\varnothing 3/8\text{''}$
- Packed in card box
- Deliver with certificate

Art No.	Range	Reading	Dia of dial ring	Length of stylus	Barcode
220-7077	0-0.03"inch	0.001"inch	1.18"inch	0.62"inch	6971570717077
220-7084	0-0.03"inch	0.001"inch	1.48"inch	0.62"inch	6971570717084
220-7091	0-0.03"inch	0.0005"inch	1.48"inch	0.62"inch	6971570717091
220-7107	0-0.008"inch	0.0001"inch	1.48"inch	0.64"inch	6971570717107

Thickness gauge

- The measuring depth: 30mm
- With standard dial indicator
- Ceramic contact point and anvil \varnothing 10mm
- Packed in card box



Art No.	Range	Reading	Barcode
220-7268	0-10mm	0.01mm	6971570717268
220-7275	0-0.5"(inch)	0.0005"(inch)	6971570717275

Thickness gauge

- Light weight easy for carrying
- Suitable for measuring small workpieces
- Flat contact point and anvil



Art No.	Range	Reading	Accuracy error	Measuring depth	Barcode
220-0248	0-10mm	0.05mm	$\pm 0.05\text{mm}$	20mm	6972727950248

Thickness gauge

- Light weight easy for carrying
- Suitable for measuring thickness of the pipe



Art No.	Range	Reading	Accuracy error	Measuring depth	Barcode
220-0255	0-10mm	0.05mm	$\pm 0.05\text{mm}$	20mm	6972727950255

Thickness gauge



Art No.	Range	Reading	Accuracy error	Barcode
220-0262	0-10mm	0.05mm	±0.1mm	6972727950262

Thickness gauge



- Pointed tips fit into small grooves and recesses

Art No.	Range	Reading	Accuracy error	Barcode
220-0279	0-10mm	0.05mm	±0.1mm	6972727950279

Digital thickness gauge

- Easy operation , light weight easy for carrying
- Suitable for measuring small workpieces
- Fuction: On/off, zero setting at any position, mm/inch
- Flat contact point and anvil
- Measuring depth 15mm
- Packed in card box



Art No.	Range	Reading	Barcode
214-8753	0-15mm/0.6"	0.01mm/0.0005"	6971570718753
214-8760	0-25mm/1"	0.01mm/0.0005"	6971570718760

Digital thickness gauge with single wide measuring face

- Easy operation , light weight easy for carrying
- Be used for measuring small workpieces
- Power On/off, zero setting at any position, mm/inch conversion
- Packed in card box



Art No.	Range	Reading	Barcode
214-8784	0-30mm/1.2"	0.01mm/0.0005"	6971570718784

Digital thickness gauge

- Horizontal type
- Suitable for measuring thickness of jewelry, paper, leather, film, wire, metal sheet etc.
- Power On/off, zero setting at any position, mm/inch conversion
- Packed in card box



Art No.	Range	Reading	Barcode
214-8777	0-12mm/0.5"	0.01mm/0.0005"	6971570718777

Digital thickness gauge

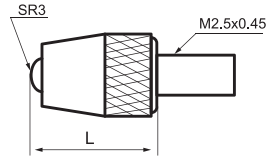
- Be used for measuring small workpieces
- Can measure both external and internal dimensions
- Power On/off, zero setting at any position, mm/inch conversion
- Contact pin \varnothing 1.5mm
- Packed in card box



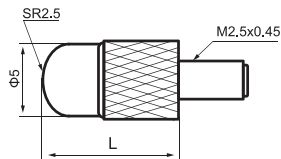
Art No.	Range	Reading	Barcode
214-8791	0-15mm/0.6"	0.01mm/0.0005"	6971570718791
214-8807	0-25mm/1"	0.01mm/0.0005"	6971570718807

Contact Points

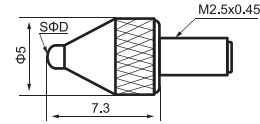
Universal contact points for dial indicators and dial test indicators and comparator gauge etc.



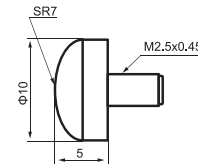
Art No.	Name of contact points	Size(L)
WP-220-CA001	sphere, carbide	7.3mm
WP-220-CA002	sphere, carbide	8.3mm
WP-220-CA003	sphere, carbide	12.1mm
WP-220-CA004	sphere, carbide	14mm
WP-220-CA005	sphere, carbide	15mm
WP-220-CA006	sphere, carbide	17mm
WP-220-CA007	sphere, carbide	19.3mm
WP-220-CA008	sphere, carbide	20mm
WP-220-CA009	sphere, carbide	22mm
WP-220-CA010	sphere, carbide	25mm
WP-220-CA011	sphere, carbide	30mm



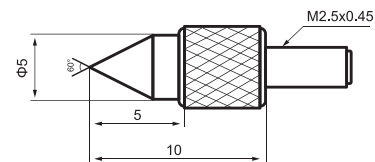
Art No.	Name of contact points	Size(L)
WP-220-CC001	shell, steel	5mm
WP-220-CC002	shell, steel	10mm
WP-220-CC003	shell, steel	15mm
WP-220-CC004	shell, steel	20mm
WP-220-CC005	shell, steel	25mm
WP-220-CC006	shell, steel	30mm



Art No.	Name of contact points	Size(D)
WP-220-CB001	sphere, steel	φ 1mm
WP-220-CB002	sphere, carbide	φ 1.5mm
WP-220-CB003	sphere, carbide	φ 1.8mm
WP-220-CB004	sphere, carbide	φ 2.5mm
WP-220-CB005	sphere, carbide	φ 4mm



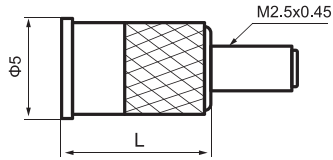
Art No.	Name of contact points	Siz
WP-220-CD01	sphere, steel	φ 10mm



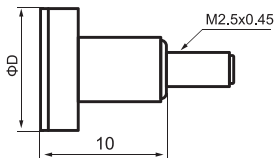
Art No.	Name of contact points	Siz
WP-220-CE01	conical, steel	10x5mm

Contact Points

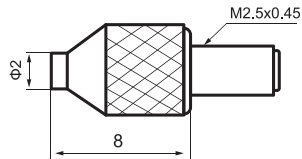
Universal contact points for dial indicators and dial test indicators and comparator gauge etc.



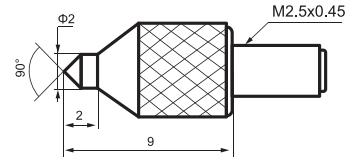
Art No.	Name of contact points	Siz(L)
WP-220-CF001	Flat, steel	8mm
WP-220-CF002	Flat, steel	10mm



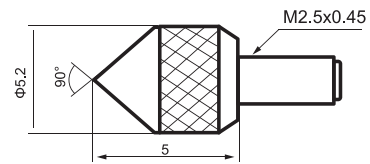
Art No.	Name of contact points	Siz(D)
WP-220-CF101	Flat, steel	Φ 10mm
WP-220-CF102	Flat, steel	Φ 15mm
WP-220-CF103	Flat, steel	Φ 20mm
WP-220-CF104	Flat, steel	Φ 25mm
WP-220-CF105	Flat, steel	Φ 30mm



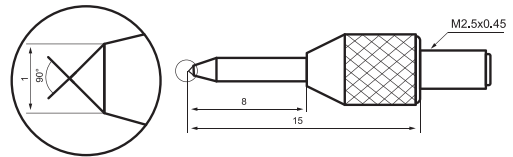
Art No.	Name of contact points	Siz
WP-220-CF201	Flat, steel	8mm



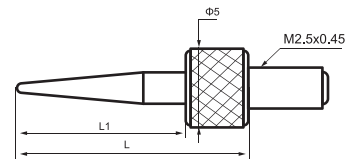
Art No.	Name of contact points	Siz
WP-220-CE02	taper, steel	9mm



Art No.	Name of contact points	Siz
WP-220-CE03	taper, steel	5mm



Art No.	Name of contact points	Siz(LxL1)
WP-220-CE04	taper, steel	15x8mm

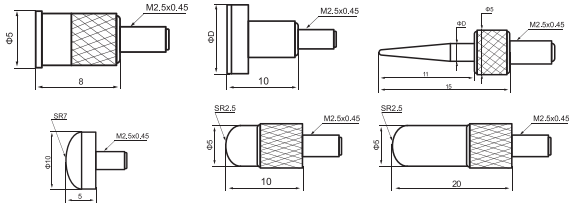


Art No.	Name of contact points	Siz(LxL1)
WP-220-CH01	taper, steel	15x11mm
WP-220-CH02	taper, steel	17x13mm
WP-220-CH03	taper, steel	25x21mm
WP-220-CH04	taper, steel	35x31mm

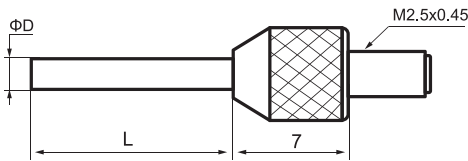


Contact Points

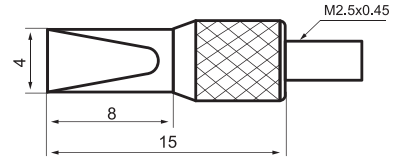
Universal contact points for dial indicators and dial test indicators and comparator gauge etc.



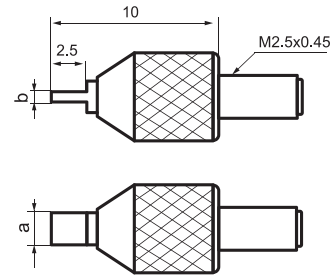
Art No.	Name	contents
WP-220-C0060	Set (6pcs)	flat 5x8mm
		flat 10x10mm
		pin 15x11mm
		sphere 10mm
		shell 5x10mm
		shell 5x20mm



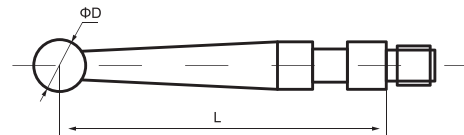
Art No.	Name	Size(DxL)
WP-220-CG001	pin, steel	0.45x3mm
WP-220-CG002	pin, steel	0.45x5mm
WP-220-CG003	pin, carbide	1x3mm
WP-220-CG004	pin, carbide	1x5mm
WP-220-CG005	pin, carbide	1x8mm
WP-220-CG006	pin, carbide	1x10mm
WP-220-CG007	pin, carbide	1x20mm
WP-220-CG008	pin, carbide	1x40mm
WP-220-CG009	pin, carbide	1.5x5mm
WP-220-CG010	pin, carbide	1.5x10mm
WP-220-CG011	pin, carbide	1.5x13mm
WP-220-CG012	pin, carbide	1.5x20mm
WP-220-CG013	pin, carbide	1.5x40mm
WP-220-CG014	pin, carbide	2x8mm
WP-220-CG015	pin, carbide	2x18mm
WP-220-CG016	pin, carbide	2x28mm
WP-220-CG017	pin, carbide	2x40mm



Art No.	Name	Size
WP-220-CJ01	knife edge, steel	15x8x4mm



Art No.	Name	Size(axb)
WP-220-CJ02	fan, steel	0.4x2mm
WP-220-CJ03	fan, steel	0.6x2mm
WP-220-CJ04	fan, steel	1x4mm



Art No.	Name	Size(DxL)
WP-220-CK001	dial test indicator, steel	1x13.5mm
WP-220-CK002	dial test indicator, carbide	2x13.5mm
WP-220-CK003	dial test indicator, carbide	3x13.5mm
WP-220-CK004	dial test indicator, ruby	2x13.5mm
WP-220-CK005	dial test indicator, steel	1x13.5mm
WP-220-CK006	dial test indicator, carbide	2x13.5mm
WP-220-CK007	dial test indicator, carbide	3x13.5mm

Clamping holder

- For dial test indicator
- Made of steel, black burnished



Art No.	Size(mm)	Barcode
7126-1	φ8x80	6972727951955

Clamping holder

- For all dial indicators and for dovetails
- Made of steel, black burnished
- The dial indicator is not including
- Packed in card box



Art No.	Size of shaft	Bore size	Barcode
220-8319	76x12x6mm	φ6mm & φ8mm	6971570718319
220-8326	3"x1/2"x1/4"(inch)	φ5/32" & φ1/4" (inch)	6971570718326

Centering Holder

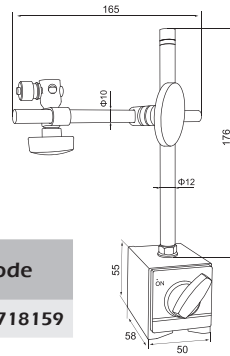
- For dial test indicators and for dovetails
- Made of steel, black burnished
- The dial indicator is not including
- Packed in card box



Art No.	Bore φ	Shaft φ	Barcode
220-8296	4mm	8mm	6971570718296
220-8302	5/32"	1/4"	6971570718302

Magnetic stand

- Basic style
- Blackening column, $\varnothing 12 \times 176 \text{mm} + \varnothing 10 \times 160 \text{mm}$
- Dial indicator shank $\varnothing 8 \text{mm}$ and $\varnothing 6.5 \text{mm}$
- Prismatic magnetic base with on/off switch
- Packed in cardbox



Art No.	Magnetic Force	Base(LxWxH)	Barcode
230-8159	60kg	58x50x55mm	6971570718159

Magnetic stand

- Basic style with fine adjustment
- Blackening column, $\varnothing 12 \times 176 \text{mm} + \varnothing 10 \times 160 \text{mm}$
- Dial indicator shank $\varnothing 8 \text{mm}$ and $\varnothing 6.5 \text{mm}$
- Prismatic magnetic base with on/off switch
- Packed in cardbox



Art No.	Magnetic Force	Base(LxWxH)	Barcode
230-8166	60kg	58x50x55mm	6971570718166

Magnetic stand

- Heavy-duty model with fine adjustment
- Blackening column, $\varnothing 16 \times 225 \text{mm} + \varnothing 12 \times 190 \text{mm}$
- Dial indicator shank $\varnothing 8 \text{mm}$ and $\varnothing 6.5 \text{mm}$
- Prismatic magnetic base with on/off switch
- Packed in cardbox



Art No.	Magnetic Force	Base(LxWxH)	Barcode
230-8173	60kg	58x50x55mm	6971570718173

Magnetic stand

- Super locking power
- For dial indicators shank $\varnothing 6\text{mm}/8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with ON/OFF switch (aluminium switch)
- Packed in cardbox



Art No.	Magnetic Force	Base(LxWxH)	Main stem	Branch stem	Barcode
7131-80	80Kg	60x50x55mm	12x175mm	10x165mm	6972727951870
7131-100	100Kg	73x50x55mm	16x250mm	10x165mm	6972727951887

Universal magnetic stand

TOP quality.

- Super locking power
- Blackening arm in 255mm length
- For dial indicators shank $\varnothing 8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with on/off switch
- Packed in cardbox



Art No.	Magnetic Force	Base(LxWxH)	Barcode
230-8197	80kg	58x50x55mm	6971570718197

Universal magnetic stand

- With central mechanical clamping
- Chromed steel arm in 350mm length
- For dial indicators shank $\varnothing 8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with on/off switch
- Packed in cardbox



Art No.	Magnetic Force	Base(LxWxH)	Barcode
230-8180	80kg	58x50x55mm	6971570718180

Universal magnetic stand

- Super locking power
- For dial indicators shank $\varnothing 6\text{mm}/8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with ON/OFF switch
- Packed in cardbox

Art No.	Magnetic Force	Base(LxWxH)	Arm length	Barcode
7128-80	80Kg	60x50x55mm	275mm	6972727951818
7128-100	100Kg	73x50x55mm	355mm	6972727951825
7128-101	100Kg	73x50x55mm	415mm	6972727951832



Mini universal magnetic stand

- Mini type
- For dial indicators shank 8mm and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with ON/OFF switch
- Packed in cardbox

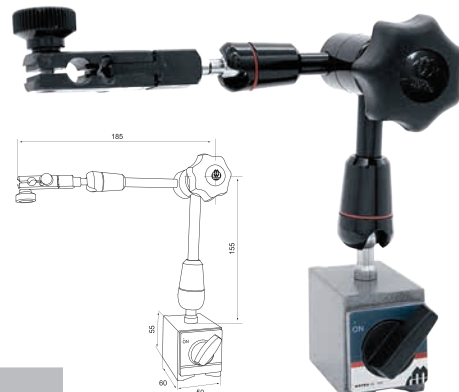
Art No.	Magnetic Force	Base(LxWxH)	Barcode
7130-30	30kg	35x30x35mm	6972727952006



Mini universal magnetic stand

- Mini style
- Steel arm in 187mm length
- For dial indicators shank $\varnothing 8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with on/off switch
- Packed in cardbox

Art No.	Magnetic Force	Base(LxWxH)	Barcode
230-8203	40kg	36x35x30mm	6971570718203



Universal magnetic stand

- Super locking power
- For dial indicators shank $\varnothing 6\text{mm}/8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Prismatic magnetic base with ON/OFF switch (aluminium switch)
- Packed in cardbox

Art No.	Magnetic Force	Base(LxWxH)	Arm length	Barcode
7129-130	130Kg	117x50x55mm	635mm	6972727951849



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Magnetic stand MINI type

- Suitable for measuring small working pieces or use in Confined Space
- For dial indicators shank $\varnothing 8\text{mm}$
- Magnetic base
- Packed in cardbox



7130-20

7130-21

Art No.	Magnetic Force	Base(LxWxH)	Barcode
7130-20	20Kg	73x37x12mm	6972727951856
7130-21	20Kg	73x37x12mm	6972727951863

Magnetic base

- Sturdy magnetic block, with prismatic base
- With ON/OFF switch
- Hammer blow lacquered



Art No.	Magnetic Force	Base(LxWxH)	Thread	Barcode
7127-30	30Kg	35x30x35mm	M5x0.8	6972727951894
7127-40	40Kg	36x35x30mm	M6x1.0	6972727951900
7127-60	60Kg	60x50x55mm	M5x1.25	6972727951917
7127-80	80Kg	60x50x55mm	M5x1.25	6972727951924
7127-100	100Kg	73x50x55mm	M5x1.25	6972727951931
7127-130	130Kg	117x50x55mm	M5x1.25	6972727951948

Dial support with vacuum base

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- For all kinds of measuring on granite plates
- With a powerful vacuum base holder
- Steel arm in 280mm length
- For dial indicators shank $\varnothing 8\text{mm}$ and with dovetail for dial test indicators
- With fine adjustment
- Die casting base
- Packed in cardbox

Art No.	Base(Dia.xH)	Barcode
230-8210	$\varnothing 90 \times 25\text{mm}$	6971570718210



Universal dial indicator support

- Chromed steel column, $\varnothing 14 \times 200\text{mm}$
+ $\varnothing 12 \times 270\text{mm}$
- With fine adjustment
- For dial indicators shank $\varnothing 8\text{mm}$
- Steel base with T-groove
- Packed in cardbox

Art No.	Base(LxWxH)	Barcode
230-8227	220x58x35mm	6971570718227



Measuring stand

- Cast base
- Round table surface, hardened, grounded and lapped
- With fixed column $\varnothing 22\text{mm}$
- With mounting hole 8mm H7
- Measuring range of holder: 100mm
- Total height 220mm
- Packed in cardbox



Art No.	Working Table	Flatness Of Wrking Table	Verticality Of Pillar Against Table	Barcode
236-2423	$\varnothing 50\text{mm}$	0.002mm	0.03mm	6971570712423

Measuring stand

- Cast base
- Square table surface, hardened, grounded and lapped, with dust grooves
- With mounting hole 8mm H7
- Measuring range of holder: 100mm
- Packed in cardbox



Art No.	Working Table	Flatness Of Wrking Table	Verticality Of Pillar Against Table	Barcode
236-2430	60x68mm	0.002mm	0.03mm	6971570712430
236-2447	98x115mm	0.005mm	0.05mm	6971570712447

Precision comparator stand

- Cast base
- With ceramic working table
- Precision clamp with fine adjustment, range 1-1.2mm
- With $\varnothing 8\text{mm}$ and 3/8" clamping hole
- Packed in cardbox

Art No.	Working Table	Working table flatness	Barcode
7132-C80	80x80mm	1.5 μm	6972727951979



Precision comparator stand

- Cast base
- With hardened steel working table, grounded and lapped
- Precision clamp with fine adjustment, range 1-1.2mm
- With $\varnothing 8\text{mm}$ and 3/8" clamping hole
- Packed in cardbox

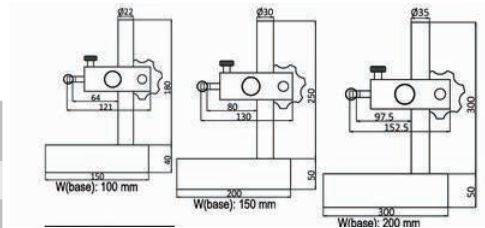
Art No.	Working Table	Flatness Of Wrking Table	Barcode
7132-80	80x80mm	1.5 μm	6972727951962



Granite Precision Measuring Table

- Natural granite table
- Finely ground measuring surface according to DIN876/00 Class
- Precise tuning device, adjustable 8mm travel
- Dial clamping hole: 8mm
- Connecting thread: M8×1.25
- Packaging: Carton

Art No.	Size	Barcode
7132-GF150	150x100x40mm	6972727957933
7132-GF200	200x150x50mm	6972727957940
7132-GF300	300x200x50mm	6972727957957



Precision comparator stand

- Natural granite base
- Measuring surface fine ground and diamond lapped
- Precision clamp with fine adjustment, range 1-1.2mm
- With $\varnothing 8$ mm and 3/8" clamping hole
- Packed in cardbox

Art No.	Working Table	Flatness Of Working Table	Thickness of the base	Barcode
7132-G150	150x100mm	2.0 μ m	40mm	6972727951986
7132-G210	210x150mm	2.5 μ m	50mm	6972727951993



Measuring tools set-3pc/set

- 3pcs/set
- Content: Vernier caliper 0-150mm/0-6", reading 0.05mm/1/128", 210-0016(1pc);
Outside micrometer 0-25mm, reading 0.01mm, 217-5400(1pc);
90° Precision inspection beveled edge square, 100x70mm, Grade 00, 240-1297(1pc)
- Deliver in plastic box with inspection certificate

Art No.	Barcode
2701-3A	6972727952310



Measuring tools set-3pc/set

- 3pcs/set
- Content: Digital caliper 0-150mm/0-6", reading 0.01mm/0.0005", 210-8814(1pc);
Outside micrometer 0-25mm, reading 0.01mm, 217-5400(1pc);
90° Precision inspection beveled edge square, 100x70mm, Grade 00, 240-1297(1pc)
- Deliver in plastic box with inspection certificate

Art No.	Barcode
2701-3B	6972727952327



Measuring tools set-3pc/set

- 3pcs/set
- Content: Dial caliper 0-150mm, reading 0.02mm, 210-8364(1pc);
Outside micrometer 0-25mm, reading 0.01mm, 217-5400(1pc);
90° Precision inspection beveled edge square, 100x70mm, Grade 00, 240-1297(1pc)
- Deliver in plastic box with inspection certificate

Art No.	Barcode
2701-3C	6972727952815



Measuring tools set-2pc/set

- 2pcs/set
- Content:Dial indicator 0-10mm, reading 0.01mm,220-6964(1pc);
Magnetic stand,230-8166(1pc);
- Deliver in plastic box with inspection certificate

Art No.	Barcode
2701-2A	6972727952334



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Measuring tools set-2pc/set

- 2pcs/set
- Content:Digital indicator 0-12.7mm/0-0.5", reading 0.01mm/0.0005",221-9095(1pc);
Magnetic stand,230-8166(1pc);
- Deliver in plastic box with inspection certificate

Art No.	Barcode
2701-2B	6972727952341



USB data output cable

- Connect to USB port of computer
- Without software, measuring data can be input as keyboard signal to EXCEL, WORD...
- Press the button to input data
- Packed in cardbox



Art No.	Barcode	Description
WP-DCA1	6972727950828	for digital calipers, digital micrometers, digital indicators
WP-DCA2	6972727950835	for digital indicators
WP-DCA3	6972727950842	for digital height gauge

Data output cable

- Connect to RS232 9pin port of computer
- Supplied analog data acquisition software
- Support manual single data acquisition and automatic continuous data acquisition
- Packed in cardbox



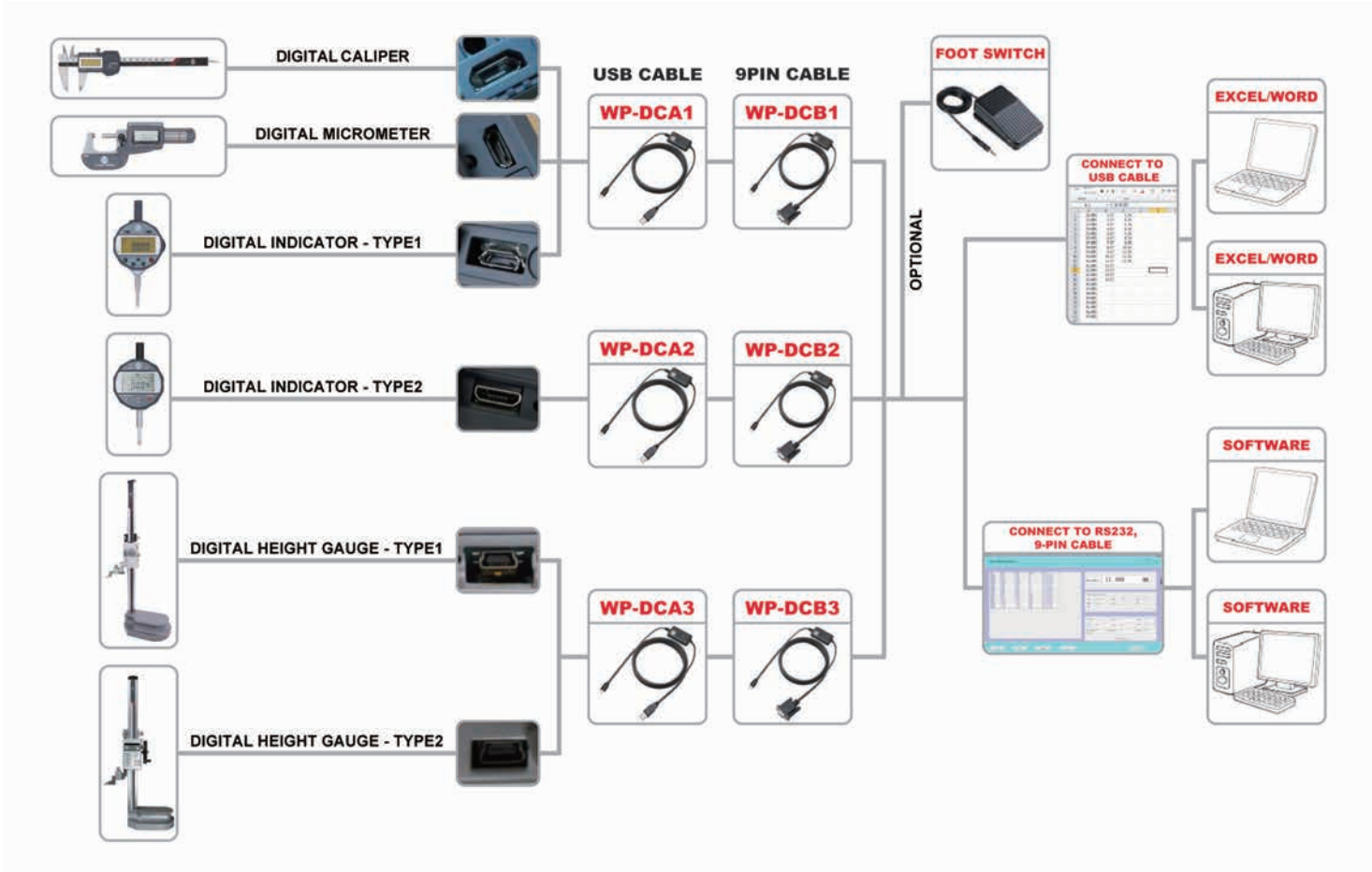
Art No.	Barcode	Description
WP-DCB1	6972727950859	for digital calipers, digital micrometers, digital indicators
WP-DCB2	6972727950866	for digital indicators
WP-DCB3	6972727950873	for digital height gauge

Foot switch



Art No.	Barcode
WP-FS01	6972727950880

WERKA Single channel data transmission (with cable)



ACCESSORIES FOR
INSPECTION ROOM
AND WORKSHOP

**PRECISION GRANITE
SURFACE PLATE**

•

VEE BLOCK PAIRS

•

PRECISION PARALLEL SET

•

PRECISION VISES

•

EDGE FINDERS

•

ZERO SETTING GAUGE

•

•

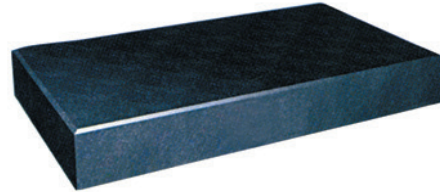
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Precision granite surface plates



- For the inspection room
- Highest quality material be selected
- Diamond-lapped measuring surfaces according to DIN876
- Extremely hard , wear resistant and acid resistant
- T-slot and dovetail slot on granite plate according to requirement
- Delivery with workshop calibration certificate



Grade 00			
Art No.	Size (LxWxH)	Accuracy error	Barcode
238-4953	300x300x100mm	2.8µm	6971570714953
238-4960	400x400x100mm	3.1µm	6971570714960
238-4977	600x450x100mm	3.5µm	6971570714977
238-4984	750x500x130mm	3.8µm	6971570714984
238-4991	1000x750x150mm	4.5µm	6971570714991

Grade 0			
Art No.	Size (LxWxH)	Accuracy error	Barcode
7400-033-0	300x300x100mm	5.7µm	6972727950934
7400-044-0	400x400x100mm	6.3µm	6972727950941
7400-064-0	600x450x100mm	7.0µm	6972727950958
7400-075-0	750x500x130mm	7.6µm	6972727950965
7400-107-0	1000x750x150mm	9.0µm	6972727950972

Stand for granite surface plates

- For medium size granite surface plates
- Include 5 jacks
- One foot on the bottom is adjustable

Art No.	For Granite Plate	Barcode
238-5004	600x450x100mm	6971570715004
238-5011	750x500x130mm	6971570715011
238-5028	1000x750x150mm	6971570715028



Vee block pairs



- Grade 0
- Made of carbon steel hardened
- Fine ground, machined and adjusted in pair
- Accuracy :±0.004mm
- Vee groove 90°
- Pairwise finished
- Packed in cardbox



Art No.	Size	For Shaft Dia	Barcode
236-0306	75x35x30mm	ø5 - 40mm	6971570710306
236-0313	100x47x40mm	ø5 - 55mm	6971570710313
236-0320	150x55x45mm	ø5 - 60mm	6971570710320
236-0337	200x65x55mm	ø5 - 75mm	6971570710337
236-0344	250x85x70mm	ø5 - 100mm	6971570710344

Vee block pairs



- Grade 1
- Made of cast iron with high resistance to wear
- Fine ground, machined and adjusted in pair
- Accuracy ±0.016mm
- Vee groove 90°
- Pairwise finished
- Packed in cardbox



Art No.	Size	For Shaft Dia	Barcode
236-0252	50x40x30mm	ø4 - 30mm	6971570710252
236-0269	75x40x30mm	ø6 - 40mm	6971570710269
236-0276	100x40x30mm	ø6 - 50mm	6971570710276
236-0283	150x50x40mm	ø8 - 60mm	6971570710283
236-0290	200x70x50mm	ø8 - 70mm	6971570710290

Vee block Pair with clamp

- For clamping cylindrical pieces and marking purposes
- Made of carbon steel hardened or stainless steel hardened
- With clamp
- Accuracy $\pm 0.004\text{mm}/100\text{mm}$
- Pairwise finished
- Packed in cardbox



H

Stainless steel		Carbon steel		Size	For Shaft Dia
Art No.	Barcode	Art No.	Barcode		
236-0382	6971570710382	236-0351	6971570710351	50x40x40mm	$\phi 5\text{-}30\text{mm}$
236-0399	6971570710399	236-0368	6971570710368	75x55x55mm	$\phi 5\text{-}30\text{mm}$
236-0405	6971570710405	236-0375	6971570710375	100x75x75mm	$\phi 7\text{-}70\text{mm}$

Magnetic V-Blocks

- Made from special steel
- Sturdy magnetic base with ON/OFF switch
- Accuracy: $0.02\text{mm}/100\text{mm}$
- Packed in cardbox

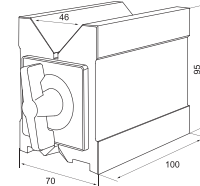
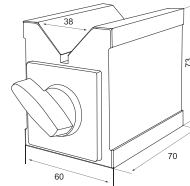
Art No.	V-face	Base(LxWxH)	Barcode
230-8258	38mm	70x60x73mm	6971570718258
230-8265	50mm	100x70x95mm	6971570718265



230-8258

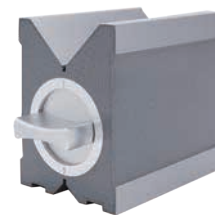


230-8265



Magnetic V-Blocks

- Made from special steel
- Sturdy magnetic base with ON/OFF switch
- Accuracy: $0.004\text{mm}/100\text{mm}$
- Packed in cardbox



Art No.	V-face	Base(LxWxH)	Barcode
230-8272	50mm	80x70x95mm	6971570718272
230-8289	50mm	100x70x95mm	6971570718289

X-Vee block pairs



- Grade 1
- Made of cast iron with high resistance to wear
- Fine ground, machined and adjusted in pair
- Accuracy $\pm 0.016\text{mm}$
- Four large grooves 90°
- Pairwise finished
- Packed in cardbox



Art No.	Size	For Shaft Dia	Barcode
236-0412	75x150x130mm	$\varnothing 8 - 120\text{mm}$	6971570710412
236-0429	90x200x170mm	$\varnothing 12 - 180\text{mm}$	6971570710429

Precision parallel sets

- Made from high grade alloy steel, hardened
- Finely ground in pairs
- Specially process to guarantee the high accuracy steadily, no distortion for long time
- Tolerance in pairs parallelism 0.005mm
- Packed in wooden box



Art No.	Paris	LxT	Height	Barcode
236-0436	9	100x4mm	10, 14, 18, 22, 26, 30, 34, 38, 42	6971570710436
236-0443	9	160x4mm	10, 14, 18, 22, 26, 30, 34, 38, 42	6971570710443
236-0467	14	150x10mm	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50	6971570710467

Precision parallel sets



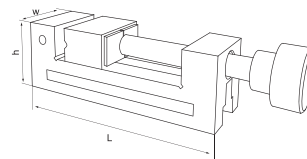
- Made from high grade alloy steel, hardened
- Finely ground in pairs
- Specially process to guarantee the high accuracy steadily, no distortion for long time
- Tolerance in pairs parallelism 0.005mm
- Packed in cardbox

Art No.	Paris	Height	Height	Barcode
236-0474	20	100mm	5x2, 10x2, 15x2, 20x2,6x3, 11x3, 16x3, 21x3, 7x4, 12x4, 17x4, 22x4,8x5, 13x5, 18x5, 23x5, 9x6, 14x6, 19x6, 24x6	6971570710474
236-0481	24	125mm	11x8, 16x8, 21x8, 26x8, 31x8, 36x8, 13x10, 18x10, 23x10, 28x10, 33x10, 38x10, 15x12, 20x12, 25x12, 30x12, 35x12, 40x12, 17x14, 22x14, 27x14, 32x14, 37x14, 42x14	6971570710481
236-0498	24	150mm	11x8, 16x8, 21x8, 26x8, 31x8, 36x8, 13x10, 18x10, 23x10, 28x10, 33x10, 38x10, 15x12, 20x12, 25x12, 30x12, 35x12, 40x12, 17x14, 22x14, 27x14, 32x14, 37x14, 42x14	6971570710498

Precision vises



- Made of carburizing steel
- Parallelism:0.004mm/100mm
- Verticality:0.005mm/100mm
- Hardness:HRC55-60
- packed in cardbox



Art No.	Size	Jaw Opening Size	Barcode
236-7381	155x48x52mm	0-65mm	6971570717381
236-7398	190x63x63mm	0-85mm	6971570717398
236-7404	210x73x73mm	0-100mm	6971570717404
236-7411	250x90x80mm	0-125mm	6971570717411
236-7428	260x100x96mm	0-125mm	6971570717428
236-7435	300x125x104mm	0-160mm	6971570717435
236-7442	315x150x110mm	0-175mm	6971570717442

Runout Tester



- Made in Germany
- Finely ground surface according to DIN876-2
- 2 adjustable tailstocks
- Left tailstock to fix the central axis
- Right tailstock with spring device, approx. 10mm free adjustment
- Lever to quickly fix the tailstocks
- Base with a T-shaped groove and a column, a 8mm reserved hole for the column, fine adjustment available
- Fixed tailstock height: 50mm (Art. No. 7136-10)
- V-shaped Tailstock height : 75mm
Clamping range of V-shaped groove: 6-24mm (Art. No. 7136-40)
- High quality carton



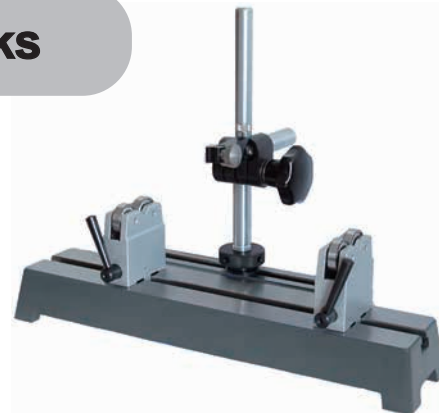
Note: Dial excluded

Art. No.	Base Size	T-shaped Groove	Spacing	Center Height	Tip Diameter	Load	Barcode
7136-10	350x110mm	10H7	200mm	50mm	16mm	5KG	6972727953607
7136-40	350x110mm	10H7	200mm	75mm	16mm	5KG	6972727957070

Runout Tester with Roller Blocks



- Made in Germany
- Finely ground surface according to DIN876-2
- With 2 roller blocks
- Concentricity error of the roller 0.005mm
- Lever for quick clamping
- Base with T-shaped groove and a column, a 8mm reserved hole for the column, fine adjustment available
- High quality carton



Art. No.	Base Size	T-shaped Groove	Roller Block Height	Barcode
7136-100	350x110mm	10H7	65mm	6972727953607

Universal Bore Gauge



- Made in Germany
- Widely used in parts measuring and inspection, inside and outside dimension measurement of equipment
- With different measuring jaws and probes available
- Optional extensions, max. up to 2000mm
- Changeable measuring directions based upon actual situations, inside or outside dimension measurement.
- Indicator excluded(option)
- Sturdy wooden box
- Incl. test certificate
- Option(digital dial indicator)



Note: Dial excluded

Art. No.	Measuring range		Measuring Force		Barcode
	outside	inside	outside	inside	
4205-230	50-220mm	15-230mm	~6N	~4N	6972727957742

Extensions for Universal Bore Gauge



- Made in Germany
- Extension accessories for universal bore gauge

Art. No.	Measuring range	Barcode
WP-4205-01	100mm	6972727958688
WP-4205-02	200mm	6972727958695
WP-4205-03	500mm	6972727958701



Installation Support



- Made in Germany
- For universal bore gauge

Art. No.	Barcode	
WP-4205-05	6972727958725	

Art. No.	Size	Barcode
WP-4205-12	34x30x10mm	6972727958794



WP-4205-05



WP-4205-12

Installation Support

- Made in Germany
- For universal bore gauge
- For installation of 3.5mm and 5mm diameter probes etc.

Art. No.	Size	Barcode
WP-4205-13	40mm	6972727958800
WP-4205-14	80mm	6972727958817



Probes

- Made in Germany
- For universal bore gauge to measure outside dimensions

Art. No.	Barcode
WP-4205-06	6972727958732



WP-4205-06

- Made in Germany
- For universal bore gauge to measure inside dimensions

Art. No.	Barcode
WP-4205-07	6972727958749



WP-4205-07

- Made in Germany
- For universal bore gauge, applicable for probes with M2.5 thread of dial indicator and dial test indicator

Art. No.	Barcode
WP-4205-04	6972727958718



WP-4205-04



Spherical Probes



- Made in Germany
- For universal bore gauge

Art. No.	Size	Barcode
WP-4205-09	23x6mm	6972727958763
WP-4205-10	53x6mm	6972727958770



H

Elbow Probes



- Made in Germany
- For universal bore gauge

Art. No.	Size	Barcode
WP-4205-11	41x6mm	6972727958787



Disc Probes



- Made in Germany
- For universal bore gauge to measure inside and outside dimension of grooves


Art. No.	Size	Barcode
WP-4205-08	42x10.5x12mm	6972727958756



Digital tool setting gauge 0-2.5mm


Used for determine the procedures at the origin position in machine coordinate system

Feature:

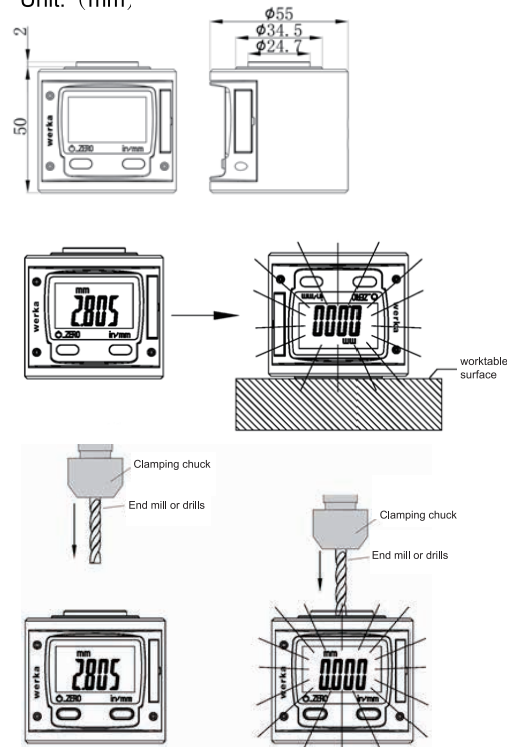
- Inductive measurement system
- LED Display
- Response speed 1.6m/s
- IP65 Protection grade
- Light indicating at "0.000"
- Auto power off,when no operation for 5 minutes
- 3V Lithium battery, low voltage alarm: Display "  "



Specification:

Product Name	Digital tool setting gauge
Art No.	235-9521
Range	0-2.5mm
Resolution	0.001mm/0.00005"
Accuracy error	±0.002mm
Buttons	 ...ZERO: Short press to power on and off Zero setting by long press In/mm: Short press for metric, inch conversion
Protection Garde	IP65
Working Temperature	0~40°C
Storage and transportaion	-20~70°C
Overall dimension	Dia.x H:55x50mm
Execution Standard	Enterprise standard

Unit: (mm)



Digital tool setting gauge

Step 1: Invert the tool setting gauge so that the upper datum plane is flat on the work-piece surface or countertop, long press ... ZERO button for about three seconds, and the display value will be zeroed, then the display backlight will light up as a reminder.

Note: The display backlight will not go out until the display number is not "0".

Step 2: Put the tool setting gauge in the right direction and move the cutting tools to the datum plane until the the display shows "0" and the display backlight lights up, this means that the relative "0" position of the machine to the work-piece has been calibrated.

ZERO setting gauge

- Magnetic base

Art. No.	Total height	Accuracy error	Barcode
7413-02M	50mm	0.01mm	6972727952587



H

3D Probe,with Dial Indicator

- Made in Germany
- Extremely slim, easy to operate
- Standard ceramic probe:φ3mm
- Top plastic case
- Incl. workshop's test certificate
- Not allowed to contact with liquid like water and oil
- No shocking
- Solvent-free detergent only



Art. No.	Measuring range	Shank Diameter	Length	Probe	Barcode
223-3607	1.5mm	Ø12mm	166mm	Ø3mm	6972727953607
223-7070	0.06inch	Ø12mm	166mm	Ø3mm	6972727957070

Electronic ZERO setting gauge

- With LED signal light
- Magnetic base
- LED light up when the cutting tool touch the head
- 1.5V Battery, LR44



Art. No.	Total height	Accuracy error	Barcode
7413-01	50mm	0.01mm	6972727952570

Electronic edge finders

- Touch point LED indication
- Shank and contact point have been hardened



Art. No.	Contact point	Shank	Accuracy error	Barcode	Remark
7412-020	10mm	18mm	0.005mm	6972727952556	
7412-020P	10mm	18mm	0.005mm	6972727952563	with beeper

Edge finders

- Mechanical edge finder for quick and easy location of round or flat work
- Hardened and precision ground



Art. No.	Contact point	Shank	Accuracy error	Barcode
7412-010	10mm	10mm	0.005mm	6972727952532
7412-010S	10mm and 4mm	10mm	0.005mm	6972727952549

OPTICAL INSTRUMENT

**HAND-HELD
REFRACTOMETER**

•

LASER DISTANCE METER

•

MICROSCOPE

•

MAGNIFIER WITH LED LAMP

•

•

•



Auto focus video measuring microscope

It can be applied to incoming inspection, production inspection, material research, PCB and SMT inspection analysis, printing, textile inspection, biological anatomy, medical testing and other fields.

Feature:

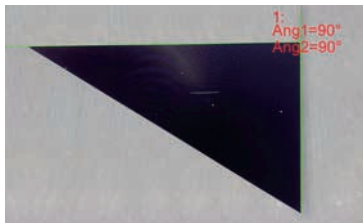
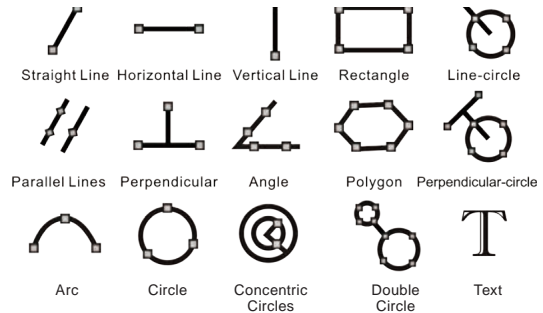
- Integral design;
- Built-in high-definition HDMI integrated camera, directly connected to HDMI display, can take pictures or videos;
- With high definition 0.7~4.5X parallel continue zoom lens, it is much more convenience and fast to switch objective magnification;
- With adjustable LED surface reflection illumination, is able to control brightness independently;
- With 2 mega pixel auto focus camera, no need to waste time for manual focus frequently;
- With its own measurement function, it can measure linear dimensions such as distance, perimeter, area, angle, radian, width, height, and radius elements.



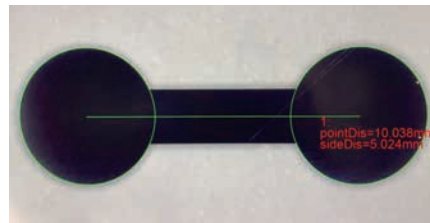
Measurement

Function Introduction:

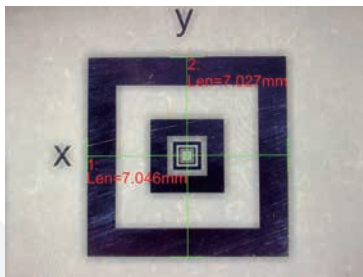
DM-50 can measure straight lines, angles, concentric circles, parallel lines, point-to-line distance, point and line to concentric circles, diameter, circumference and area, length and width of rectangle, and can calculate circumference and area. It can measure the polygon and calculate its area. All the corresponding measurement report can be output to Udisk.



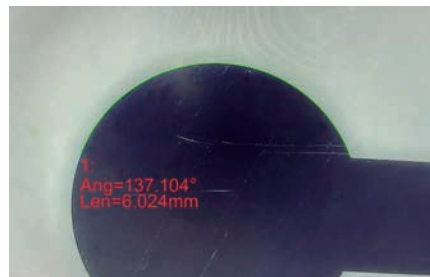
Angle Measurement



Concentric Circles Measurement

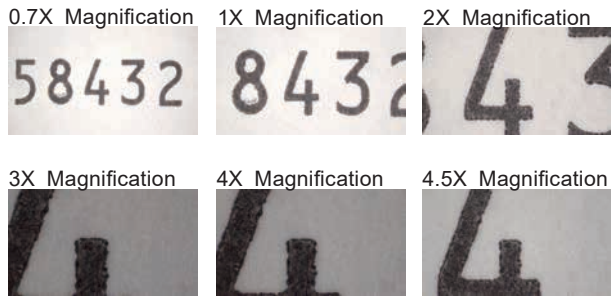


Vertical Line Measurement



Arc Measurement

Field of View:



Optical Multiple	Actual effective field of view (X,Y,D:mm)		
0.7x	17.76	10.03	20.40
1x	11.16	6.3	12.82
2x	5.42	3.06	6.22
3x	3.63	2.05	4.17
4x	2.7	1.52	3.10
4.5x	2.47	1.4	2.84

Specification:

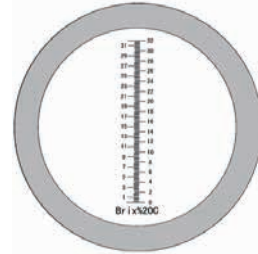
Product Name	Auto Focus Video Microscope
Art No.	521-2013
Electronic Magnification	8x~206x(HDMI 16:9 21.5" Monitor)
Optical Objective	0.7x~4.5x zoom lens Zoom ratio: 6.5:1 0.5x C-mount camera adapter
Camera Parameters	2M pixe(1920x1080) Image size:1/2.8" Frames per second:1080P@60fps
Measuring Function	Linear dimensions such as distance, perimeter,area,angle,radian,width,height, and radius elements are measured
Measurement Accuracy	0.02mm~0.003mm
Illumination	Adjustable LED surface illumination
Microscope Stand	Z-axis travel:100mm
Power Supply	AC90~204V,50~60Hz
Dimension(LxWxH)	375x285x500mm
Net Weight	6.5Kg

Delivery:

Product Name
Instrumen Main Unit
Power adapter:DC5V(Camera), DC12V(illumination)
Monitor:16:9 21.5"
Mouse
USB Flash Disk
Operation manual, Warranty card,certificate,packing list

Hand-held refractometer

Hand-Held Refractometer is developed for working with sugar related liquids (fruit juices, soft drinks, wine), help monitor and control sugar concentrations in foods and beverages. It's also commonly used for controlling the concentration of various industrial fluids cutting lubricants and flux rinsing compounds.



- Built-in automatic temperature compensation system
- For measuring the optimal concentration of liquids
- Rugged stainless steel housing with rubber handle
- With adjusting screw, folding cover, with rubber eye cup, quality optic
- Size: 172 × φ29mm
- Delivery in a case

Art. No.	Range	Reading	Accuracy error	Compensation temperature range	Barcode
522-0354	0-32% Brix	0.2% Brix	±0.20%	10°C -30°C	6972727950354

Laser distance meter

The LD 70P laser distance meters is portable devices that can easily and accurately measure length, area, and volume by pressing one button. These tools can be used in interior/exterior design, construction, factory supervision, engineering inspection, traffic accident evidence gathering, real estate development, fire assessment, and more.



- Model No.: LD70P
- CE certified
- 2.4-inch color screen
- Auto leveling horizontal, auto leveling vertical
- Auto power off, auto laser off
- Measurement unit: m / ft / in / ft+in
- Measurement basis: front / middle / rear
- Measuring functions: length, area, volume, continuous measurement, Pythagoras with 2 and 3 measuring points, minimum and maximum tracking.
- IP65 protection level
- Data storage: 20
- Drop test: 2m
- USB charging
- 1.2V(AA x3) NiMH batteries
- Battery status display
- Packed in cardbox

LASER RADIATION, DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
MAXIMUM OUTPUT <1mW
WAVELENGTH 630~670nm



Art. No.	Range	Display unit	Accuracy error	Laser type	Laser class	Barcode
526-070	0.05-70m	0.001m	±2mm	630-670nm, <1mW	2	6972727951870

Mini Sound Level Meter

Mini sound level meters can convert ambient sound into electric signals, process data and display results on LCD. They can constantly monitor ambient sound.

Applications:

Noise detection, quality control, health control, environmental noise measurement in factory, traffic, home audio and other places.

- White backlight, clear LCD screen
- Adjustable sampling rate, fast/slow
- 1/2 inch condenser microphone
- Light weight, ergonomic design, user-friendly interface
- Packed in card box

Product Name	Mini Sound Level Meter
Art No.	526-131
Barcode	6972727953522
Range	30~130dB
Reading	0.1dB
Accuracy error	±1.5dB
Sampling rate	Fast: 125ms Slow: 1000ms
Frequency response	31.5Hz~8kHz
Barcode	6972727953546
Overload indication	OL
MAX/MIN	√

Data hold	√
LCD backlight	√
Auto power off	√
Low battery indication	√
General Characteristics	
Power	1.5V battery (R03) x 3
Display	32mm x 26mm
Product net weight	116g
Product size	150mm x 52mm x 27mm
Standard accessories	Batteries, windscreen
Standard individual packing	Blister, English manual



Mini Anemometer

Mini Anemometer can measure wind speeds up to 30m/s. It's a stable, safe, reliable mini digital anemometer.

Applications:

Mining, electric, iron and steel, petrochemical, energy-saving, navigation, fan manufacturing, exhaust ventilation.

- White backlight, clear LCD screen
- Light weight, ergonomic design, user-friendly interface
- Packed in card box

Product Name	Mini Anemometer
Art No.	524-301
Barcode	6972727953522
Measuring range	0~30m/s
Wind speed resolution	0.1m/s
Wind speed accuracy	±(5%rdg+0.5)
Temperature	-10~50°C / 14~122 °F
Temperature resolution	0.1°C / 0.2 °F
Temperature accuracy	±2°C / ±4 °F
Wind scale	Level 0~12
Wind scale accuracy	±1
Sampling rate	0.5s
Overload indication (> 45m/s)	OL

MAX/AVG	√
Data hold	√
LCD backlight	√
Auto power off	5 min
Low battery indication	3V~3.5V
General Characteristics	
Power	1.5V battery (R03) x 3
Display	32mm x 26mm
Product net weight	118g
Product size	160mm x 50mm x 28mm
Standard accessories	Batteries
Standard individual packing	Blister, English manual



Mini Temperature Humidity Meter

Mini temperature humidity meters can measure, process data, and display results on LCD.

Applications: Grain storage and transportation, file management, material management, forestry and animal husbandry, health care, teaching experiment, public sector, home and others.



- White backlight, clear LCD screen
- Temperature measurement range: -10~60°C /14~140 °F
- Humidity measurement range: 0~100%RH
- MAX/MIN modes, low battery indication, auto power off
- Light weight, ergonomic design, user-friendly interface
- Packed in card box

Product Name	Mini Temperature Humidity Meter
Art No.	525-011
Temperature range	-10~60°C /14~140 °F
Temperature resolution	0.1°C /0.2 °F
Temperature accuracy	±1.0°C /±2.0 °F
Humidity	0%RH~100%RH
Humidity accuracy	±5% RH
Humidity resolution	0.1%RH
Sampling rate	1/s
Overload indication	OL
MAX/MIN	√
Data hold	√
°C / °F selection	√

LCD backlight	√
Auto power off	5 min
Low battery indication	3V~3.5V
General Characteristics	
Power	1.5V battery (R03) x 3
Display	32mm x 26mm
Product net weight	102g
Product size	155mm x 50mm x 28mm
Standard accessories	Batteries
Standard individual packing	Blister, English manual

Mini Tachometer

Mini Tachometer is a reliable digital non-contact tachometer used to measure rotation speed of motors and other machines.



- LCD backlight
- Auto measuring range
- Up to 99999 display; overload display, "OL"
- RPM measurement and revolution count
- Max/Min, data hold
- Singal trigger/laser-on indication
- Low battery/auto power off indication

Product Name	Mini Tachometer		
Art No.	527-201		
Measuring Range	Reading	Accuracy error	
RPM measurement	10.0~9999.9RPM	0.1RPM	±(0.04%+2)
Counting measurement	10000~99999RPM	1RPM	
Counting measurement	0~99999 counts	1counts	±1
Auto range	√		
Auto power off	√		
Low battery indication	√		
Laser-on indication	√		
Data hold	√		
MAX/MIN	√		
Rotating speed/count function switching	√		

Overload indication	√
LCD backlight	√
Refresh rate	1s to 7s (>120rpm for 1s)
Sensor type	Photodiode and laser tube
Target distance	50mm~200mm
Measuring angle	±30° from perpendicular
Drop test	1m
General Characteristics	
Power	1.5V battery (R03) x 3
Display	5-digit segment code; 99999 max display
Product net weight	85g (excluding battery)
Product size	183.8mm x 56mm x 34mm
Standard accessories	Batteries, reflective tape
Standard individual packing	Bubble bag, gift box, English manual

Digital microscope with LCD display

Suitable for inspection and viewing: circuit board, precision parts, ore, material surface, textile fabric, printing products, etc..

Feature:

- VGA camera sensor, camera rechargeable.
- Manually adjustable focus via hand wheel.
- 10 -fold zoom function (in 10%-steps).
- Colour display, 720 pixels.
- Video format AVI, photo format JPG.
- Mini USB connection for charging cables.
- Mini -SD card slot.

Specification:

Product Name	Digital microscope with LCD display
Art No.	521-0347
Image sensor	1/6 color CMOS image sensor
Video resolution	VGA 720P
Data format	JPG/AVI
Focus mode	Manual
Pixel size	640*480
Magnification	200x
Frame rate	25F/s
Focusing range	10~40mm(visible view)
Minimum illumination	0.1Lux
White balance	Auto
Light source	8 LED lights(adjustable brightness)
Drive type	UVC
Working current	The maximum 450mA
Support system	Win 10/Win 8/Win 7/Vista/Win XP/LINUX
Power input	USB-5V
Interface and signal transmission mode	Micor/USB 2.0 Power input/USB 5V
Working temperature	-20~60°C
Working humidity	30%~85%Rh
Battery capacity	800mA



Standard Delivery:

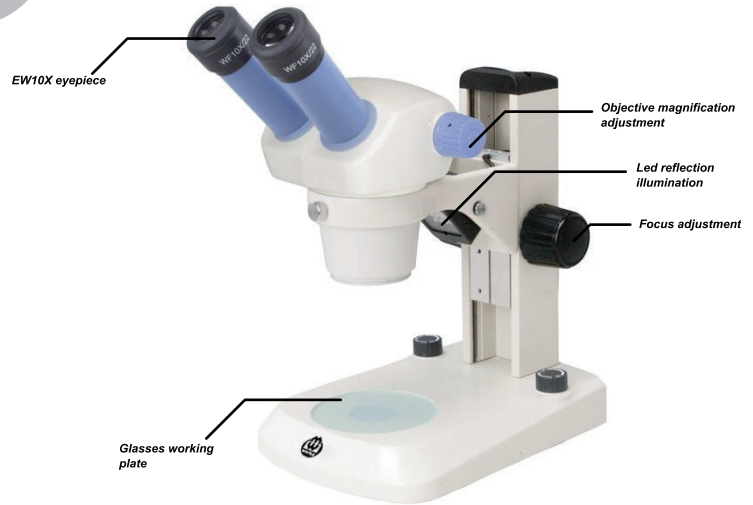
Product Name
Instrument Main Body
Stand with fine adjustment device
CD
Colorbox

Zoom stereoscopic microscope(Eco.type)

Ideal instrument in academic, medical and industrial field.

Feature:

- High quality, high function and excellent costperformance.
- Best choose with ergonomic design, sharp imagedisplay and wide viewing field.
- Providing a wide viewing field of $\Phi 20\text{mm}$ with the zoom ratio of 1:4.5.
- Diopter adjustable.
- High resolution, wide viewing field, long working distance.



Specification:

Product Name	Zoom stereoscopic microscope(Eco.type)
Art No.	520-0217
Viewing tube	Binocular head,inclined at 45°
Diopter Adjustment Ey epiece	EW10X/ $\phi 20$ view field
Zoom objective	1x~4.5x
Zoom ratio	1:4.5
Interpupillary	55~75mm
Working distance of objective	97mm
Illumination	LED Reflection illumination LED Transmission illumination
Power supply	110/220V,50/60Hz
Dimension(LxWxH)	260x190x400mm
Weight	4.3Kg

Standard Delivery:

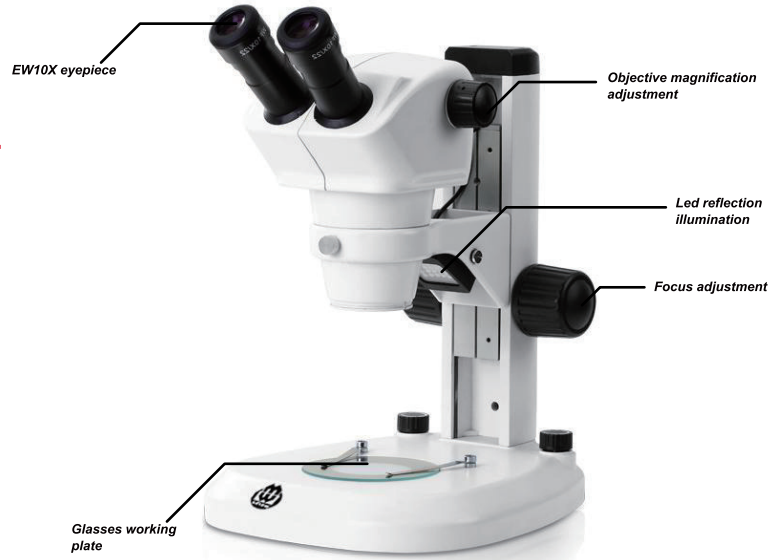
Product Name
Instrument main unit
WF-10X Eyepiece
Glasses working plate
White/Black working acrylic plate
User's manual
Dust cover

Zoom stereo microscope

Ideal instrument for industry assembling, inspection and teaching field.

Feature:

- With high quality optical components, providing sharp and striking contrast image and ensuring flat image at big depth of field.
- Ease the tiredness with ergonomic design.
- With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 6000 hours.
- With Complete eyepieces, objectives and accessories.
- Diopter adjustable
- High resolution, wide viewing field, long working distance.



Specification:

Product Name	Zoom stereo microscope
Art No.	520-0224
Viewing tube	Binocular head, inclined at 45°
Diopter Adjustment Ey epiece	EW10X/φ22 view field
Zoom objective	0.8x~5x
Zoom ratio	6.3:1
Interpupillary distance	55~75mm
Working distance of objective	115mm
Illumination	Incident Illumination 100V~240V/LED Transmitted Illumination 100V~240V/LED
Power supply	110/220V, 50/60Hz
Dimension(LxWxH)	290x260x480mm
Weight	5Kg

Standard Delivery:

Product Name
Instrument main unit
WF-10X Eyepiece
Glasses working plate
White/Black working acrylic plate
User's manual
Dust cover

Magnifier with LED lamp

5X Bright Adjustable Magnifier, Large viewing area

- Dome Lens Magnifying Glass Loupe With Led Light Illuminated
- 3 different brightness by button control
- Micro USB rechargeable, no need to buy batteries, convenient to use
- High quality of the lens, the font will not appear deformed, even long look nor feel dizzy and fatigue
- Large vision lenses, without moving back and forth frequently
- Packed in colourbox



Art No.	Size	Magnification	Barcode
295-8975	94mm	5X	6971570718975

Magnifier with LED lamp

For magnifying small parts with additional light source. Adjustable at any position, with 360° rotation.

- High-quality lens
- Metal body, powder coated
- Bright illumination with 90 ultra bright LED
- Extremely low power consumption
- Long LED service life, no risk of breakage
- External switch for use as a table lamp
- With table clamp
- Packed in colourbox



Art No.	Lens Diameter	Barcode
295-9002	5"	6971570719002

Desk magnifier with LED lamp

For magnifying small parts with additional light source.

- High-quality lens
- Bright illumination with 72 ultra bright LED
- Extremely low power consumption
- Long LED service life, no risk of breakage
- External switch for use as a table lamp
- Packed in colourbox



Art No.	Lens Diameter	Barcode
295-8999	5"	6971570718999



HARDNESS TESTER
AND VISION
MEASURING MACHINE

ROCKWELL HARDNESS TESTER

•

ULTRASONIC HARDNESS TESTER

•

PROTABLE HARDNESS TESTER

•

COATING THICKNESS GAUGE

•

VISION MEASURING MACHINE

•

•

•

Digital rockwell hardness tester



Semi automatic hardness tester except loading initial force and change force knob. Operation is very convenient and fast.

Product Feature:

- Semi automatic hardness tester except loading initial force and change force knob. Operation is very convenient and fast.
- Motorized control loading, dwell and unloading, eliminates error by manual operation.
- Built-in micro processor auto compute max, min, mean and deviation value, resolution is 0.1HR, largely improve accuracy.
- Auto hardness conversion to others scales, no need to check table and improve working efficiency.
- Support Multiple languages, English, Turkish, German, etc. Convenient for local customers operation.
- Save 2000 single testing results and 1000 group results for reviewing and analysis.
- Optional blue tooth mini printer is available.

Standard Delivery:

Product Name	
Instrument Main Body	1.588mm Ball
Hardness Block(57-70)HRC	Diamond Spheroconical Indenter
Hardness Block(20-33)HRC	Weight A
Hardness Block(85-100)HRC	Weight B
Φ 150mm Flat Anvil	Weight C
Φ 60mm Flat Anvil	Power Cable
Φ 40mm V-grooved Anvil	Instrument Manual
1.588mm Ball Indenter	Accessories Box

Working cupboard(WP-447-WT1) is not included.



Specification:

Product Name	Digital Rockwell Hardness Tester
Art No.	447-9385
Rockwell Scales	HRA,HRB,HRC,HRD,HRE,HRF,HRG,HRH,HRK,HRL,HRM,HRP,HRR,HRS,HRV
Preliminary Test Force	10Kgf(98.07N)Permitted Error:±2.0%
Additional Test Force	60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)Permitted Error:±1.0%
Dwell Time	Adjustable 1~60s
Hardness Indication	5.2"Color Touch Screen,Resolution:640x480
Resolution	0.1HR
Loading Control	Auto Loading/Dwell/Unloading
Hardness Conversion	HRC,HV,HBS,HBW,HK,HRA,HRD,HR15N,HR30N,HR45N,HS,HRF,HR15T,HR30T,HR45T,HRB
Conversion Standards	ASTM,DIN
Language Option	Chinese,English,German,Portuguese,Turkish,Czech,Korean
Correction Range	-3.0HR to +3.0HR,Step 0.1HR
Data Memory	2000 Single Measuring Result,Curve Analysis,Results Reviewing And Analysis
Data Output	Optional Blue Tooth Mini Printer
Max.Height Of Specimen	175mm
Instrument Throat	165mm
Power supply	AC220V/50Hz,AC110V/60Hz
Dimension(LxWxH)	546x182x755mm
Packing Dimension	620x460x870mm
Gross/Net Weight	120Kg/90Kg
Execution Standard	GB/T230.2,EN-ISO6508,ASTM E-18

Manual rockwell hardness tester



The analogue gauge resolution is 0.5HR, it is useful to improve the reading accuracy than traditional 1HR resolution.

Product Feature:

- The force knob adopts the metal material to replace the plastic, it largely improves the instrument using-life.
- The body adopts 10mm cast iron structure, which is durable and suitable for various harsh environments.
- It's intenter protector is available to improve the using lifetime of indenter.
- Application: carbides, carburized steel, hardened steel, surface hardened steel, hard cast steel, aluminum alloy, copper alloy, malleable castings, mild steel, quenched and tempered steel, annealed steel, bearing steel, etc.

Specification:

Product Name	Rockwell Hardness Tester
Art No.	447-9408
Rockwell Scales	HL,HRC,HRB,HRA,HV,HB,HS
Preliminary Test Force	10Kgf(98.07N)
Test Force	60Kgf(558.4N),100Kgf(980.7N),150Kgf(1471N)
Dwell Time	Adjustable 1~60s
Hardness Indication	Analogue Display
Resolution	0.5HR
Loading Control	Manual
Max.Height of Specimen	175mm
Instrument Throat	165mm
Power supply	AC220V/50Hz,AC110V/60Hz
Dimension(LxWxH)	546x182x755mm
Packing Dimension	620x460x870mm
Gross/Net Weight	120Kg/90Kg
Execution Standard	ISO 6508,ASTM E18,JIS Z2245,GB/T230



Standard Delivery:

Product Name	
Instrument Main Body	Φ1.588mm Steel Ball
Hardness Block(57-70)HRC	Cone Diamond Indenter
Hardness Block(20-33)HRC	Φ 150mm Flat Anvil
Hardness Block(85-100)HRC	Φ 40mm V-shape Anvil
Φ 1.588mm Ball Indenter	Weight A
Accessories Box	Weight B
Anti-dust Cover	Weight C
Qualified Certificate	Instrument Manual

Optional Accessories:

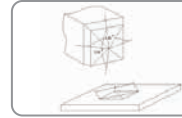
Optional Accessories	
1/8" Steel Ball	1/2"Steel Ball
1/8"Steel Indenter	1/2"Steel Ball Indenter
1/4"Steel Ball	100mm Flat Anvil
1/4"Steel Ball Indenter	Small Flat Anvil



Ultrasonic hardness tester

Ultrasonic hardness tester 447-9392 is a NDT durometer due to the contact indentation is too small to observe, it is one of the excellent solution to test hardness of finished products, such as, the mold, gear, shaft, rod, screw, rails, etc.

- Very compact size with integrated probe.
- One instrument two applications—Support ultrasonic probe and Leeb impact device.
- Metal shell—Metallic texture, shield electromagnetic interference effectively, improve instrument stability.
- Color screen display—Display the current measurement value, accumulative measurement value, Max, Min and Ave value.
- Bluetooth transferring—Support wireless Bluetooth print and data transferring.
- Mass storage—Save 1000 groups data.
- Calibration access—Save 20 groups calibration data without doing calibration for the same material over and over.



Schematic diagram of indenter of ultrasonic hardness tester



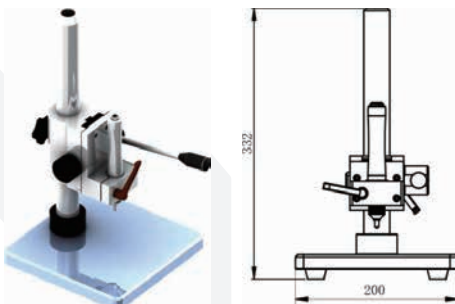
Rockwell hardness block HRC

Standard Delivery:

Product Name	
Instrument Main Body	1pc
2Kg Manual probe	1pc
Impact devices type D	1pc
Rockwell hardness block	1pc
Leeb hardness block	1pc
Probe cable	1pc
Accessories Box	1pc
USB Cable	1pc
Operation Manual	1pc

Testing Stand For Manual Probe:

Testing stand	447-9392-F15
Material	Stainless Steel
Weight	8.8Kg
Dimension(LxWxH)	200x200x332mm



Specification:

Product Name	Ultrasonic hardness tester
Art No.	447-9392
Measuring range	HV:50~1599;HRC:20~68 HB:76~650;HRB:41~105;HLD:170~960
Resolution	0.1HR,1HV,1HB,1HLD,0.1HS
Measuring accuracy	HV:±3%HV ; HRC:±1.5HRC ; HB:±3%HB ; HL:±8HL
Ultrasonic probe	Standard delivery:2Kgf (optional manual 1Kgf,5Kgf,10Kgf, motorized 0.3Kgf,0.5Kgf,0.8Kgf and 1Kgf)
Impact devices	Standard delivery:D (optional DC,DL,D+15,C,G)
Hardness scales	Vickers(HV);Rockwell C(HRC); Rockwell A(HRA);Rockwell B(HRB);Brinell(HB)
Display	Measurement value,Max,Min,Ave,Sing mode Batch mode,etc
Data storage	1000 group test results and 20 group calibration data
Data transfer	Bluetooth
Continuous Working Period	10h(turn off the backlight)
Working Environment	Temperature:-10°C ~50°C Humidity:30%~80%R.H.
Battery Voltage	4.2V
Charge Mode	USB
Dimension	165x85x22mm
Weight	≤500g(probe not included)

Motorized Probe Feature:

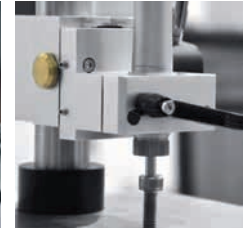
- Introduced latest ultrasonic sensor technology
- Obtain accurate hardness value without auxiliary devices
- Excellent human engineering design easy to hold
- Micro indentation, no destructive for specimen
- Motorized control, one key fast measuring
- Eliminate hand shake error by manual probe, higher accuracy and repeatability
- More suitable for thin pieces, coating layer hardness



Art No.	447-9392-003	447-9392-005	447-9392-008	447-9392-010
Remark	Optional	Standard	Optional	Optional
Loading force	3N	5N	8N	10N
Diameter	46mm	46mm	46mm	46mm
Length	200mm	200mm	200mm	200mm
Oscillating Rod Diameter	3.7mm	3.7mm	3.7mm	3.7mm
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm



Measuring hardness of nut with Standard Probe Protector



Measuring the hardness of a cylinder with the small cylindrical support ring



Manual Probe Feature:

- Introduced latest ultrasonic sensor technology
- Obtain accurate hardness value without auxiliary devices
- Support 360° quick measuring
- Excellent human engineering design easy to hold
- Suitable dimension and measuring for probe is convenient to control
- Quick and accurate measuring for edge and fixed position of specimen
- Micro indentation, Non-Destructive for specimen



Art No.	447-9392-003	447-9392-005	447-9392-008	447-9392-010
Remark	Optional	Standard	Optional	Optional
Loading force	10N	20N	50N	98N
Diameter	22mm	22mm	22mm	22mm
Length	154mm	154mm	154mm	154mm
Oscillating Rod Diameter	2.4mm	2.4mm	3mm	3mm
Roughness of measuring surface	Ra < 3.2µm	Ra < 5µm	Ra < 10µm	Ra < 15µm
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm

Optional Accessories:

Product Name	Art No.
1Kg Manual probe	447-9392-100
2Kg Manual probe	447-9392-200
5Kg Manual probe	447-9392-500
10Kg Manual probe	447-9392-1000
0.3Kg Motorized probe	447-9392-003
0.5Kg Motorized probe	447-9392-005
0.8Kg Motorized probe	447-9392-008
1Kg Motorized probe	447-9392-010
Rockwell hardness block HRC	447-9392-F01
Vickers hardness block HV	447-9392-F02
Mini Printer	447-9392-F03
Standard Probe Protector	447-9392-F11
Small Cylinder Support Ring	447-9392-F12
Big Cylinder Support Ring	447-9392-F13
Plan Support Ring	447-9392-F14
Testing Stand	447-9392-F15

			
Plan Support Ring	Small Cylinder Support Ring	Big Cylinder Support Ring	Standard Probe Protector
447-9392-F14	447-9392-F12	447-9392-F13	447-9392-F11
Plan Test Piece	Diameter 8~22mm Test Piece	Diameter 16~80mm Test Piece	-

Portable hardness tester



Most suitable for testing the hardness of heavy, big or outdoor metal parts...

- According to ASTM A956.
- Automatic power off.
- Large LCD display with backlight, operates with touch screen.
- Communicate with MINI printer via wireless.
- Based on HL scale, converted to other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength MPa.
- Low and high limits with judgment.
- Large memory (about 800 readings).
- Automatic impact device type identification

Specification:

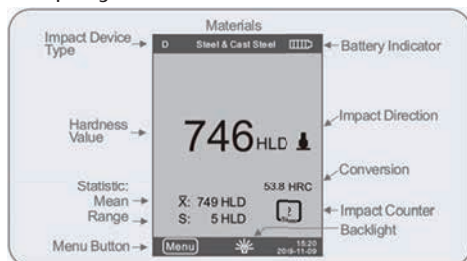
Product Name	Portable hardness tester
Art No.	447-9415
Resolution	1HL,1HV,1HB,0.1HRC,0.1HRB,1HS,1MPa
Accuracy	+/-6HL(HL=800)
Display	Matrix LCD with Backlight,Hardness HL, conversion hardness,impact direction,test times, average value,material,date
Impact Devices	Standard delivery:D (optional DC,DL,D+15,C,G;automatic identification)
Power Supply	1.5V*3(AAA alkaline batteries)
Printer	Wireless Mini-printer
Dimensions	135x83x24mm
Weight	350g(include D type impact device)
Certificate	CE



Standard Delivery:

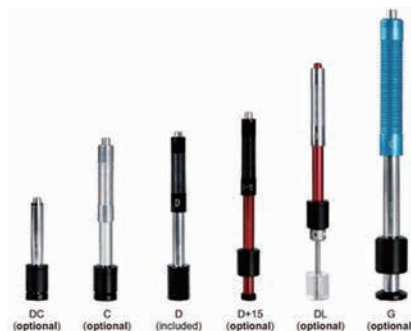
Product Name
Instrument Main Body(display unit)
Impact device D
Standard test block
Mini printer
Small supporting ring
Cleaning brush
User's manual,Certificate
AC/DC adapter
USB cable,PC software disc

Display comments:



Impact devices:

Standard delivery:D(optional DC,DL,D+15,C)



Portable hardness tester



Portable Hardness Tester is a small, light and portable tester. It is most suitable for testing of heavy, big or outdoor metal parts. It's a small, light and portable tester.

Product Feature:

- It conforms to the Standard ASTM A956-02 & DIN 50156



Technical Parameters:

Accuracy	±6 HL
Art No.	447-9422
Scales	HRC,HRB,HB,HV,HSD,MPa
Display	Bright and clear LCD display with backlight
Testing direction	All direction
Optional Impact Device	D,DC
Printer	Mini thermal printer with RF Wireless
Operating voltage	4.5V(3AAA batteries)
Operating environment	Temperature:-10~+40°C Humidity:5%~95%
Storage environment	Temperature:-30~+80°C Humidity:5%~95%
Dimensions	152x83x27mm
Weight	Approx.190g
Accessories	Display Unit,Impact Device D,Test Block Mini-printer,Charger,Little Support Ring,Cleaning Brush
Certificate	CE



Portable Hardness Tester and its standard accessories:
Mini-Printer, Display Unit, Test Block.



Coating thickness gauge

Quick one-hand operation. Place instrument on specimen and see the measured value.

Feature:

- Very compact size with integrated probe.
- Magnetic induction method, Measurement of non-magnetic coatings on magnetic substrates.
- Data memory is up to 500 readings.
- Ready to measure immediately without calibration.
- Easy to perform zero-point correction.
- The one-point calibration function.
- Statistic function



Specification:

Product Name	Coating thickness gauge
Art No.	542-9439
Range	0~1250μm(0~50 mil)
Resolution	0~999μm;0.1μm, ≥1000μm;1μm
Accuracy error	0~100μm: ±2μm 101~1250μm: ≤2.5%
Data Memory	500 readings
Display	Matrix LCD with Backlight
Power	1.5V*3(AAA alkaline batteries)
Dimensions	1.5x50.5x29mm
Weight	110g
Certificate	CE

Standard Delivery:

Product Name
Instrument Main Body(display unit)
Certification foils set
1.5V AAA battery
User's manual,Certificate
Softbag

Coating thickness gauge



Quick one-hand operation. Place instrument on specimen and see the measured value.

Feature:

- Magnetic induction method (ISO 2178, ASTM D7091), Measurement of non-magnetic coatings on magnetic substrates.
- Quick one-hand operation. Place instrument on specimen and see the measured value.
- Ready to measure immediately without calibration.
- Easy to perform zero-point correction provides correct measurement results for measuring applications with little changes in shape and substrate material.
- The one-point calibration function allows for an adaptation in cases of severe changes in shape or substrate material.
- Data transmitting to PC via USB cable.
- Statistic function allows for evaluation of a measurement series and display of the most significant characteristic statistical values



Specification:

Product Name	Coating thickness gauge
Art No.	542-9453
Range	0~1500µm(0~60 mil)
Resolution	0~999µm:0.1µm, ≥1000µm:1µm
Accuracy error	0~100µm: ±1.5µm 101~1500µm: ≤1.5%
Data Memory	1500 readings
Display	Matrix LCD with Backlight
Power	1.5V*3(AAA alkaline batteries)
Dimensions	88x67x30mm
Weight	160g
Certificate	CE

Standard Delivery:

Product Name
Instrument Main Body(display unit)
Sensor
Zero calibration block
Certification foils set
1.5V AAA battery
Software and Data cable
User's manual,Certificate
Printer(optional accessory)

Hand-held Roughness Tester

490-9538 hand-held roughness tester is ergonomically designed and a mechanical- electrical integration product, small and light, easy to operate. It is very much applicable for the measurement (e.g. plane, curvature, oblique plane, hole, groove, shaft) on site such as roughness inspection for parts in IQC warehouse, semi-finished products area and workshop etc.

Feature:

- Split design for flexible use with brackets
- Measuring range up to 160µm
- 3.8in TFT touch screen , clear and direct roughness graphs
- With BT to support wireless connection with smart phone and mini printer
- Big data memory, 100 readings and graphic groups record
- Auto power off
- Premium PCB and software design



Standard Set:

Product Name	
Host	Charger
Drive sensor	Stylus
Probe	Small bracket
Calibration blocks	Operation Manual
Connection Cable, USB cable	Carrying case



Granite Table (Option):

Product Name	
Granite Table	WP-490-P01
Material	Natural Granite
Adjustable Height	300mm
Platform size	400x250x70mm



Data:

Product Name	Hand-held Roughness Tester	
Art No.	490-9538	
Measuring range	Z-axis vertical	±80µm/±160 µm
	X-axis horizontal	20mm
Resolution	Z-axis vertical	0. 01µm/±20µm
		0. 02µm/±40µm
		0. 04µm/±80µm
		0. 08µm/±160µm
Description	Z-axis vertical	Ra,Rz,Rq,Rt,Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr,Ry(JIS),Rmax, R _{Pc} , Rk, Rpk, Rvk, Mr1, Mr2)
	applicable standards	ISO,ANSI,DIN,JIS
	Graphics	material ratio curve, roughness profile, contour
Filters		RC,PC-RC,Gauss,D-P
Sampling Length		0.25, 0.8, 2.5mm
Assessment length		Ln= lr×n,n=1~5
Sensor	Measuring principle	differential conductance displacement sensor
	Contact tip	diamond, taper 90°,radius of contact tip 5µm
	Measuring force	<4mN
	Guide	carbide, radius of moving direction
	Moving speed	lr=0.25, Vt=0.135mm/s
		lr=0.8, Vt=0. 5mm/s
		lr=2. 5, Vt=1mm/s
Return Vt=1mm/s		
Accuracy error		<±10%
Repeatability		<6%
Power		Built-in Li-ion rechargeable battery, Charge
Size		host: 64*53*160mm,Drive: 23*27*115mm
Host Weight		380g
Operating environment		temperature: - 20°C ~40°C Humidity: < 90% RH
Storage environment		temperature: - 40°C ~60°C Humidity: < 90% RH



Less Error
Within 2um

High Accuracy
 $\leq 2.4+L/200$ um

High Resolution
700TVL
Color CCD

Measurement
Software
iMeasuring 2.0

2D Movable Vision Measuring Machine



MA-100B

MA-100B is the 2D vision measuring machines with optical detent zoom lens for the measurement of geometric dimension and tolerance, it is movable by the light weight and small size. It's widely applied at the industry of 3C, semiconductor, PCB, automobile parts, medical parts, precise molds, etc.

Feature:

- MA-100B is able to be moved in different workshop and laboratory by the small size and light weight easily;
- High precision toothless rod and fast moving locking device ensures repeatability error is less than 2μm;
- High precise working stage with 0.5μm optical linear scales ensures the accuracy is less than 2.5+L/200μm;
- High definitive detent zoom lens and high resolution color camera ensures clear image without distortion;
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED telecentric illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division;
- Powerful function iMeasuring 2.0 Measuring Software, highly enhance the quality control, and it can output Word, Excel, PDF, TXT report and AutoCAD file automatically.

Delivery:

Product Name
Instrument Main Unit
Measurement Software
Power Adapter
Operation Manual,Warranty Card Certificate,Packing list

DELL PC System:
WP-PC10(Optional)



Specification:

Product Name	2D Movable vision measuring machine						
Art No.	5290-100B						
Mode No.	MA-100B						
Working table(glass)	130x130mm						
X/Y-Axis Travel	100x100mm						
Z-Axis Travel	100mm,High-precision V-type guide						
X/Y-Axis Linear Travel	Resolution:0.0005mm, high accuracy A-gradelinear scale						
X/Y Axis Guidance Mode	High precision guide,toothless rod and fast-moving locking device						
Accuracy error	E1xy<2.4 + L/200(μm)						
Repeatability	2μm						
Repeatability Illumination System (Software Adjustment)	Surface:Stepless Adjustable 4-ring 8-division LED Cold Illumination Contour:LED Parallel Illumination						
Vision System	USB CMOS Digital Camera;6.5x High Resolution Optical Detent Zoom Lens Magnification:0.7x~4.5x; Video Magnification: 26x~172x						
Field of view	Lens magnification	0.7x	1x	2.0x	3.0x	4x	4.5x
	Deo magnification	26.75x	38.21x	76.43x	114.64x	152.86x	171.96x
	1/3"CCD	8.77x7.1x5.3	7.64x6.1x4.6	3.92x3.1x2.3	2.66x2.1x1.6	1.87x1.5x1.1	153x1.2x0.9
Working Environmet	Temperature:19~-24°C ,Humidity: 45%~ 75% RH Vibration<0.002g,<15Hz						
Measuring Software	iMeasuring 2.0						
Load Capacity	15Kg						
Power Supply	220V/50Hz/10A						
Operation System	XP,WIN7,WIN8.1,WIN10;32/64 operating system						
Dimension(WxDxH)	500x380x630mm						
Net weight	35Kg						



Less Error
Within 2um

High Accuracy
 $\leq 2.5+L/200$ um;

High Resolution
700TVL
Color CCD

Measurement
Software

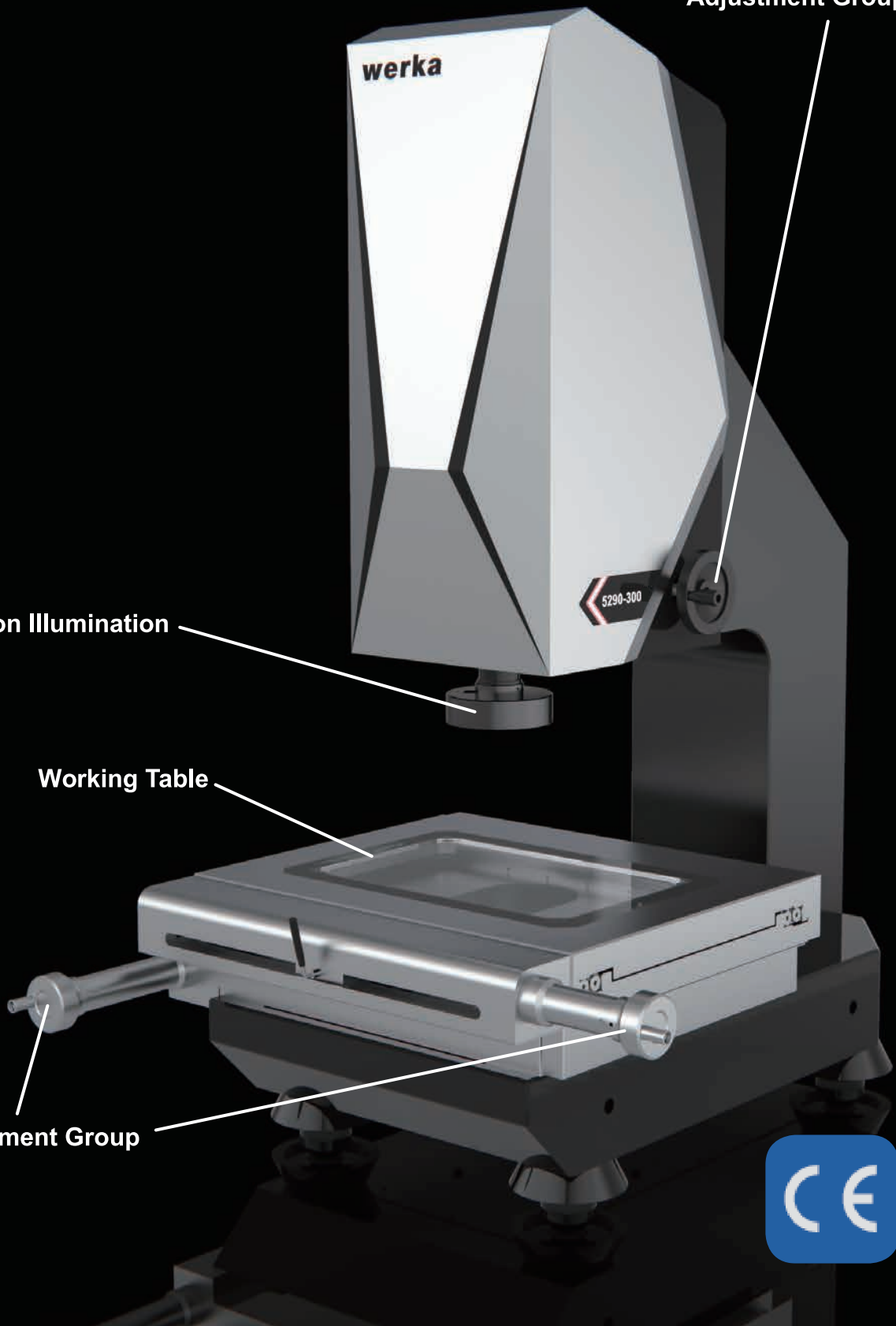
2.5D Manual vision measuring machine

Camera Lens Lifting
Adjustment Group

LED Reflection Illumination

Working Table

X/Y-axis Adjustment Group



MA-300

MA-300 is the 2.5D high accuracy geometric vision measuring machines with optical detent zoom lens and Z-axis height measurement function , it is widely applied at the industry of 3C, semiconductor, PCB, automobile parts, medical parts, precise molds, aviation and aerospace, etc.

Feature:

- High precision marble base and pillar to ensures high stability and accuracy;
- High precision toothless rod and fast moving locking device, ensure repeatability error is within 2um;
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy within 2.5+L/200um;
- High definitive detent zoom lens and high resolution color digital camera ensure clear image without distortion;
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED telecentric illumination and built-in intelligent light adjustment, it can automatically control the brightness in the 4-ring 8-division;
- Powerful function iMeasuring2.1 measuring software highly enhance the quality control situation.

Delivery:

Product Name	
Instrument Main Unit	Video Capture Card
Measurement Software	Dongle
Led Parallel Contour Illumination	Controller
Power Cable, Video Cable, Data Cable	0.5μm Linear Scale
1/3"Color Camera	Calibration Block
Operation Manual, Warranty Card, Certificate, Packing List	Anti-Dust Cover

Working CUPboard:WP-WC1(Optional)
DELL PC System:WP-PC10(Optional)

Specification:

Product Name	2D Movable vision measuring machine
Art No.	5290-300
Mode No.	MA-300
Working table(glass)	356x248mm
X/Y-Axis Travel	300x200mm
Z-Axis Travel	200mm,High-precision linear guide
X/Y-Axis Linear Travel	Resolution:0.0005mm
X/Y Axis Guidance Mode	High precision guide,toothless rod and fast-moving locking device
Accuracy error	<2.5 + L/200(μm)
Illumination System (Software Adjustment)	Surface:Stepless Adjustable 4-ring 8-division LED Cold IlluminationN, Contour:LED Parallel Illumination LED Laser Navigation Lights
CCD Camera	High Resolution 700TV Color CCD Camera
Zoom Lens	6.5x High Resolution Detented Zoom Lens Magnification :0.7x~4.5x,Video Magnification:26x~172x
Working Environmet	Temperature:20°C ±2°C ,Change range<2°C /hr, Humidity: 30%~ 80% RH,Vibration<0.002g,<15Hz
Measuring Software	iMeasuring 2.1
Power Supply	220V/50Hz/10A
Operation System	XP,WIN7,WIN8.1,WIN10;32/64 operating system
Dimension(WxDxH)	838x667x1000mm
Net weight	185Kg

The different travel of the X/Y-Axis is optional:

Art No.	5290-200	5290-250	5290-400	5290-500
Model No.	MA-200	MA-250	MA-400	MA-500
X/Y-Axis Travel	200x100mm	250x150mm	400x300mm	500x400mm
Z-Axis Travel	200mm	200mm	200mm	200mm
Dimension(WxDxH)	677x552x998mm	790x617x1000mm	1002x817x1043mm	1002x852x1085mm
Net Weight	150Kg	175Kg	350Kg	380Kg

Less Error
Within 2um

High Accuracy
2.5+L/200 um;

High Resolution
700TVL
Color CCD

Measurement
Software
iMeasuring 3.1

3D Manual vision Measuring Machine with Probe

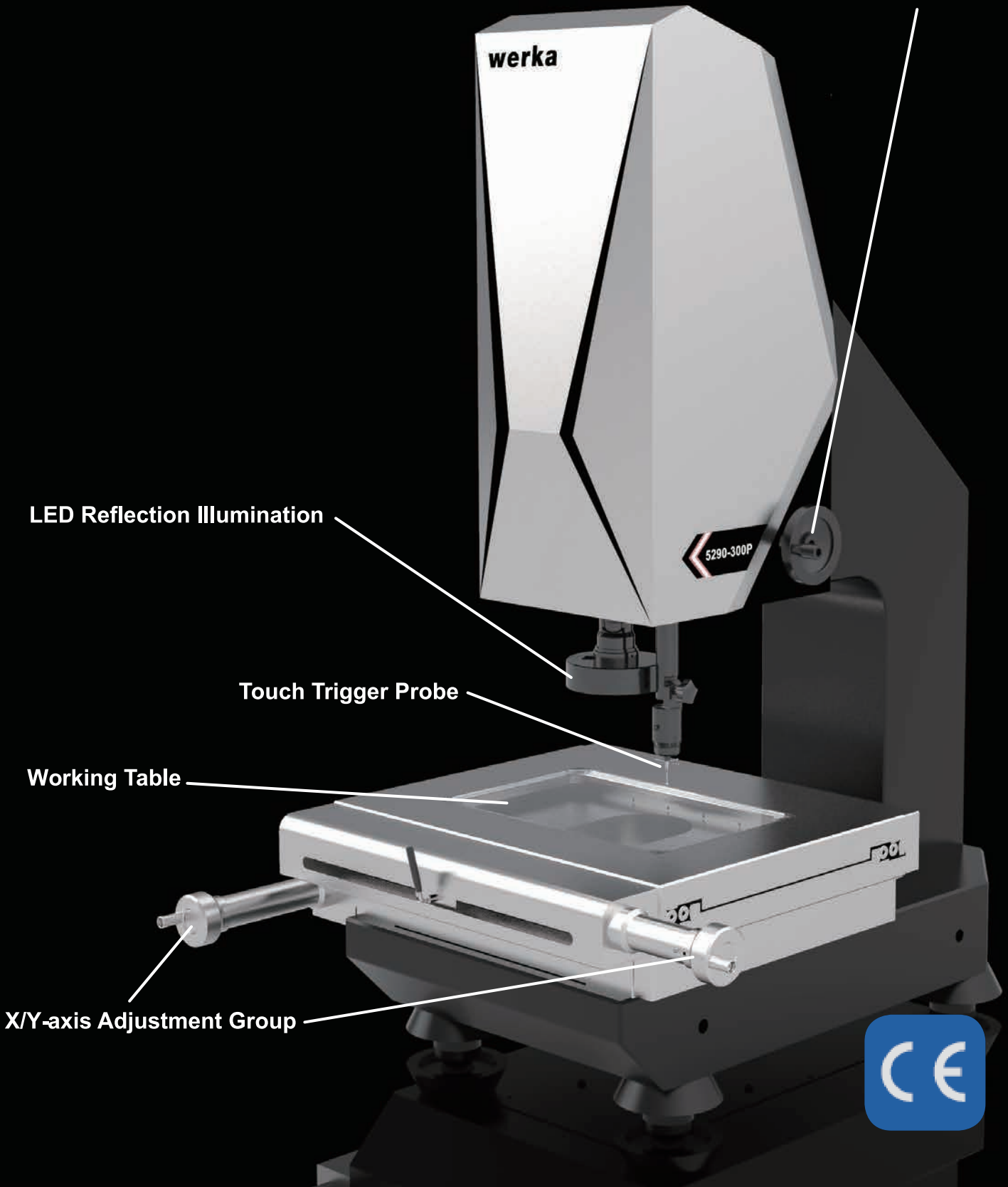
Camera Lens Lifting
Adjustment Group

LED Reflection Illumination

Touch Trigger Probe

Working Table

X/Y-axis Adjustment Group



MA-300P

MA-300P is the high accuracy geometric vision measuring machines that integrate the optical detent zoom lens and 3D touch trigger probe system,It's widely applied at the industry of 3C, semiconductor, PCB, automobile parts, medical parts, precise molds, aviation and aerospace, etc.

Feature:

- High precision marble base and pillar to ensures high stability and accuracy;
- High precision toothless rod and fast moving locking device, ensure hysteresis error is within 2um;
- High accuracy A grade optical linear scale with precision working stage,ensure the accuracy is within 2.5+L/200um;
- High definitive detent zoom lens and high resolution color camera,ensure clear image without distortion;
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division;
- Improved contact probe and powerful function iMeasuring 3D Measuring Software.

Delivery:

Product Name	
Instrument Main Unit	Calibration Block
Measurement Software	Controller
MCP probe	Dongle
LED Parallel Contour Illumination	Anti-Dust Cover
Click Zoom Lens	1/3"Color Camera
Video Capture Card	Operation Manual, Warranty Card, Certificate,acking List

Working CUPboard:WP-WC1(Optional)
DELL PC System:WP-PC10(Optional)

Specification:

Product Name	3D Maual vision measuring machine with probe
Art No.	5290-300P
Mode No.	MA-300P
Working table(glass)	356x248mm
X/Y-Axis Travel	300x200mm
Z-Axis Travel	200mm,High-precision linear guide
X/Y-Axis Linear Travel	Resolution:0.0005mm
Accuracy error	<2.5 + L/200(μm)
Repeatability	2μm
Illumination System (Software Adjustment)	Surface:Adjustable 0~255 grade 4-ring 8-division LED Cold Illumination,every division can be adjust independently,Contour:LED Parallel Illumination LED Laser Navigation Lights
CCD Camera	High Resolution 700TV Color CCD Camera
Zoom Lens	6.5x High Resolution Detented Zoom Lens Magnification :0.7x~4.5x,Video Magnification:26x~172x
Working Environmet	Temperature:20°C ±2°C ,Change range<2°C /hr, Humidity: 30%~ 80% RH,Vibration<0.002g,<15Hz
Measuring Software	iMeasuring 3.1
Power Supply	220V/50Hz/10A
Operation System	XP,WIN7,WIN8.1,WIN10;32/64 operating system
Dimension(WxDxH)	838x667x1000mm
Net weight	185Kg

The different travel of the X/Y-Axis is optional:

Art No.	5290-200P	5290-250P	5290-400P	5290-500P
Model No.	MA-200P	MA-250P	MA-400P	MA-500P
X/Y-Axis Travel	200x100mm	250x150mm	400x300mm	500x400mm
Z-Axis Travel	200mm	200mm	200mm	200mm
Dimension(WxDxH)	677x552x998mm	790x617x1000mm	1002x817x1043mm	1002x852x1085mm
Net Weight	150Kg	175Kg	350Kg	380Kg

Auto
Position

Auto
Focus

Auto
Light

Auto
Measurement

2.5D Automatic vision measuring machine



AU-400

AU-400 Series is a high precision moving-bridge type vision measuring machine, it adopted mobile-bridge structure and designed for high precision and large size measurement to ensure measuring accuracy and stability. it is widely used for measuring in electronic industry, medical instrument, LCD and aerospace industry.

Feature:

- Moving bridge structure, measured workpiece is fixed;
- Four-axis CNC fully auto close loop control, auto measurement;
- Marble base and pillar(grade 00), stable and reliable;
- Imported linear scale, resolution is 0.1um, grinding ball screw and AC servo motor etc. to ensure the precision and stability of the motion system;
- Imported HD color camera to meet the needs of clear observation and accurate measurement;
- 6.5x high-resolution motorized zoom lens, accurate doubling and one times pixel correction only needed;
- With programmable surface 5-ring 8-division LED Cold Illumination and contour LED parallel illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 8-division;
- Powerful function and easy operation measuring software to enhance quality control.

Delivery:

Product Name		
Instrument Main Unit	5-ring 8-division LED surface illumination	Calibration block
Full Auto Measuring Software		Dell PC with 21" Monitor
Controller	MCP Probe	Desk
Imported 0.1um linear scale	1/2" Color Camera	Anti-dust Cover
Motorized coaxial zoom lens	Data cable, AV video cable	Operation manual, Product certification, Warranty card, Packing list
LED parallel contour illumination	Video capture card, Dongle	

Specification:

Product Name	2.5D Automatic measuring machine						
Art No.	5290-AU400						
Mode No.	MA-AU400						
X/Y-Axis Travel	400x300mm						
Z-Axis Travel	200mm						
X/Y/Z 3-Axis Linear Travel	Imported linear scale, resolution :0.1μm						
Guidance Mode	Precision linear guide, double-track double slider guide						
Operation Mode	Joystick controller, mouse operation, automatic detection program						
Repeatability	±2μm						
Video System	High definition 1/2" color CCD camera, 6.5x Motorized click zoom lens; Optical magnification:0.7x~4.5x, Video magnification :20x~129x(21.5"monitor)						
Illumination	Contor:LED parallel contour illumination Surface:5-ring 8-division 0~255 grade continue adjustable						
Software System	iMeasuring 4.1 Fully Auto Measuring Software						
Load Capacity	25Kg						
Working Environmet	Temperature:20°C ±2°C ,Change range<2°C /hr, Humidity: 30%~ 80% RH,Vibration<0.002g,<15Hz						
Power Supply	220V/50Hz/10A						
Dimension(WxDxH)	1160x800x1650mm						
Net weight	650Kg						
Field of view(mm) (Digonal *Horizontal *Vertical)	Lens magnification	0.7x	1x	2.0x	3.0x	4x	4.5x
	1/2"CCD	11.43x 9.14x6.86	8.00x 6.40x4.80	4.00x 3.20x2.40	2.67x 2.13x1.60	2.00x 1.60x1.20	1.78x 1.42x1.07

The different travel of the X/Y-Axis is optional:

Art No.	5290-AU500	5290-AU600	5290-AU800
Model No.	AU-500	AU-600	AU-800
X/Y-Axis Travel	500x400mm	600x500mm	800x600mm
Z-Axis Travel	200mm	200mm	200mm
Dimension(WxDxH)	1450x950x1650mm	1600x1050x1650mm	2000x1200x1650mm
Net Weight	780Kg	1380Kg	2000Kg



Auto
Position

Auto
Position

Auto
Zoom

Auto
Light

MCP
Probe

Auto
Measurement

3D Automatic vision measuring machine with probe



AU-400P

AU-400P 3D AutoTouch is equipped with Touch Probe to realize 3D Measurement. Four-axis is motorized control and measurement, it is very easy to operate and can meet with widely application for precision industry measurement.

Feature:

- Moving bridge type structure, measuring workpiece is fixed;
- Four-axis CNC fully auto close loop control, auto measurement;
- Marble base and pillar(grade 00), stable and reliable;
- Imported linear scale, resolution is 0.1um, grinding ball screw and AC servo motor etc. to ensure the precision and stability of the motion system;
- Imported HD color camera to meet the needs of clear observation and accurate measurement;
- 6.5x high-resolution motorized zoom lens, accurate doubling and one times pixel correction only needed;
- With programmable surface 5-ring 8-division LED Cold Illumination and contour LED parallel illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 8-division;
- Equipped with imported MCP Probe to perform 3D measurement;
- With proprietary fully auto measuring software powerful function, simple operation;

Delivery:

Product Name		
Instrument Main Unit	LED parallel contour illumination	Joystick controller
Full Auto Measuring Software	MCP Probe	Dell PC with 21" Monitor
Controller	1/2" Color Camera	Desk
Imported 0.1um linear scale	Data cable, AV video cable	Anti-dust Cover
Motorized coaxial zoom lens	Video capture card, Dongle	Operation manual, Product certification, Warranty card, Packing list
5-ring 8-division LED surface illumination	Calibration block, 3D Calibration block	

Specification:

Product Name	3D Automatic vision measuring machine with probe						
Art No.	5290-AU400P						
Mode No.	MA-AU400P						
X/Y-Axis Travel	400x300mm						
Z-Axis Travel	200mm						
X/Y/Z 3-Axis Linear Travel	Imported linear scale, resolution :0.1μm						
Guidance Mode	Precision linear guide, double-track double slider guide						
Operation Mode	Joystick controller, mouse operation, automatic detection program						
Measurement Accuracy	XY-axis: ≤1.8+L/200(μm) Z-axis: ≤4+L/200(μm)						
Repeatability	±2μm						
Video System	High definition 1/2" color CCD camera, Image navigation system 6.5x Motorized click zoom lens; Optical magnification: 0.7x~4.5x						
Video magnification	20x~129x(21.5" monitor)						
Illumination	Contor: LED parallel contour illumination Surface: 5-ring 8-division 0~255 grade continue adjustable						
Software System	iMeasuring 4.2 Fully Auto Measuring Software						
Load Capacity	25Kg						
Working Environment	Temperature: 20°C ±2°C , Change range <2°C /hr, Humidity: 30%~ 80% RH, Vibration <0.002g, <15Hz						
Power Supply	220V/50Hz/10A						
Dimension(WxDxH)	1160x800x1650mm						
Net weight	650Kg						
Field of view(mm) (Digonal *Horizontal *Vertical)	Lens magnification	0.7x	1x	2.0x	3.0x	4x	4.5x
	1/2" CCD	11.43x 9.14x6.86	8.00x 6.40x4.80	4.00x 3.20x2.40	2.67x 2.13x1.60	2.00x 1.60x1.20	1.78x 1.42x1.07

The different travel of the X/Y-Axis is optional:

Art No.	5290-AU500P	5290-AU600P	5290-AU800P
Model No.	AU-500P	AU-600P	AU-800P
X/Y-Axis Travel	500x400mm	600x500mm	800x600mm
Z-Axis Travel	200mm	200mm	200mm
Dimension(WxDxH)	1450x950x1650mm	1600x1050x1650mm	2000x1200x1650mm
Net Weight	780Kg	1380Kg	2000Kg



ANGLE AND STRAIGHTNESS

**PRECISION
INSPECTION SQUARES**

•

TRY SQUARE

•

**PRECISION KNIFE
STRAIGHT EDGES**

•

ACUTE ANGLE SQUARES

•

PROTRACTORS

•

SPIRIT LEVEL

•

10

•

0,2m

S STEEL
IER STAHL

3

4

5

6

7

8

9

10



90° Precision inspection squares



- DIN875/0, DIN875/1, DIN875/2
- Made of stainless steel
- Insulation logo plate
- Working surface lapped
- Packed in cardbox
- Deliver with certificate



DIN 875/0

Art No.	Size	Section	Barcode
240-0757	50x40mm	12x5mm	6971570710757
240-0764	75x50mm	15x5mm	6971570710764
240-0771	100x70mm	20x5mm	6971570710771
240-0788	150x100mm	25x5mm	6971570710788
240-0795	200x130mm	30x6mm	6971570710795
240-0801	250x165mm	35x7mm	6971570710801
240-0818	300x200mm	40x8mm	6971570710818

DIN 875/1

Art No.	Size	Section	Barcode
240-0894	75x50mm	15x5mm	6971570710894
240-0900	100x70mm	20x5mm	6971570710900
240-0917	150x100mm	25x5mm	6971570710917
240-0924	200x130mm	30x6mm	6971570710924
240-0931	250x165mm	35x7mm	6971570710931
240-0948	300x200mm	40x8mm	6971570710948
240-0955	400x265mm	40x8mm	6971570710955
240-0962	500x330mm	40x8mm	6971570710962

DIN 875/2

Art No.	Size	Section	Barcode
240-1051	75x50mm	15x5mm	6971570711051
240-1068	100x70mm	20x5mm	6971570711068
240-1075	150x100mm	25x5mm	6971570711075
240-1082	200x130mm	30x6mm	6971570711082
240-1099	250x165mm	35x7mm	6971570711099
240-1105	300x175mm	40x8mm	6971570711105
240-1112	400x200mm	40x8mm	6971570711112
240-1129	500x250mm	40x8mm	6971570711129

K

90° Precision inspection squares with base

- DIN875/0, DIN875/1, DIN875/2
- Made of stainless steel
- Insulation logo plate
- Working surface lapped
- Packed in cardbox
- Deliver with certificate



K

DIN 875/0

Art No.	Size	Section	Barcode
240-0825	50x40mm	12x5mm	6971570710825
240-0832	75x50mm	15x5mm	6971570710832
240-0849	100x70mm	20x5mm	6971570710849
240-0856	150x100mm	25x5mm	6971570710856
240-0863	200x130mm	30x6mm	6971570710863
240-0870	250x165mm	35x7mm	6971570710870
240-0887	300x200mm	40x8mm	6971570710887

DIN 875/1

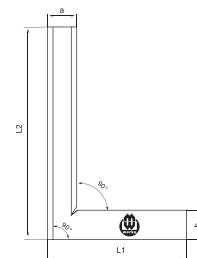
Art No.	Size	Section	Barcode
240-0979	75x50mm	15x5mm	6971570710979
240-0986	100x70mm	20x5mm	6971570710986
240-0993	150x100mm	25x5mm	6971570710993
240-1006	200x130mm	30x6mm	6971570711006
240-1013	250x165mm	35x7mm	6971570711013
240-1020	300x200mm	40x8mm	6971570711020
240-1037	400x265mm	40x8mm	6971570711037
240-1044	500x330mm	40x8mm	6971570711044

DIN 875/1

Art No.	Size	Section	Barcode
240-1136	75x50mm	15x5mm	6971570711136
240-1143	100x70mm	20x5mm	6971570711143
240-1150	150x100mm	25x5mm	6971570711150
240-1167	200x130mm	30x6mm	6971570711167
240-1174	250x165mm	35x7mm	6971570711174
240-1181	300x175mm	35x7mm	6971570711181
240-1198	400x200mm	40x8mm	6971570711198
240-1204	500x250mm	40x8mm	6971570711204

90° Precision inspection beveled edge square

- DIN875/00
- Made of stainless steel
- With two bevelled edges, hardened
- Working surface lapped
- Packed in cardbox
- Deliver with certificate



Art No.	Size	Section	Barcode
240-1273	50x40mm	14x10mm	6971570711273
240-1280	75x50mm	14x10mm	6971570711280
240-1297	100x70mm	18x12mm	6971570711297
240-1303	150x100mm	24x14mm	6971570711303
240-1310	200x130mm	28x16mm	6971570711310

K

90° Square with inside beveled edge

- DIN875/00
- Made of stainless steel
- With inside bevelled edge, hardened
- Working surface lapped
- Packed in cardbox
- Deliver with certificate



Art No.	Size	Barcode
240-1327	25x20mm	6971570711327
240-1334	40x28mm	6971570711334

Tool maker squares set

- 5pcs/set
- Knife edge square 70x50mm(DIN875/00) 1pc
- Knife edge square 40x28mm(DIN875/00) 1pc
- Knife edge square 25x20mm(DIN875/00) 1pc
- Knife straight edge 100mm(DIN874/00) 1pc
- Steel scriber point 60x9x9mm 1pc
- Packed in plastic box



Art No.	Size	Barcode
240-1341	5pcs/set	6971570711341

Try square

- Stainless steel blade
- With aluminum base
- With color sleeve

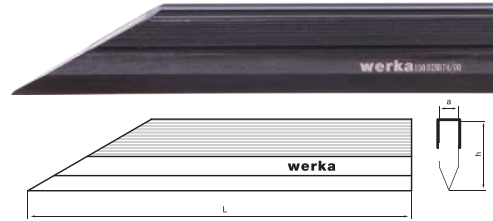


Art No.	Size	Handle Section	Barcode
240-2386	200x120mm	40x14mm	6971570712386
240-2393	250x140mm	40x14mm	6971570712393
240-2409	300x170mm	40x14mm	6971570712409
240-2416	400x200mm	40x14mm	6971570712416

Precision knife straight edges



- DIN874/00
- Made of hardened special steel with black oxide
- Beveled edge fine ground and lapped
- With black insulation handle
- Packed in soft pouch



Art No.	Size	Barcode
241-1358	50mm	6971570711358
241-1365	75mm	6971570711365
241-1372	100mm	6971570711372
241-1389	125mm	6971570711389
241-1396	150mm	6971570711396
241-1402	200mm	6971570711402
241-1419	300mm	6971570711419
241-1426	400mm	6971570711426
241-1433	500mm	6971570711433
241-1440	600mm	6971570711440

	L	a	h
50	50	5	20
75	75	5	20
100	100	5	20
125	125	5	20
150	150	6	25
200	200	6	25
300	300	8	35
400	400	8	35
500	500	10	42
600	600	10	42

K

Precision knife straight edges



- DIN874/00
- Made of stainless steel with satin matt
- Beveled edge fine ground and lapped
- With black insulation handle
- Packed in soft pouch



Art No.	Size	Barcode
241-1457	50mm	6971570711457
241-1464	75mm	6971570711464
241-1471	100mm	6971570711471
241-1488	125mm	6971570711488
241-1495	150mm	6971570711495
241-1501	200mm	6971570711501
241-1518	300mm	6971570711518
241-1525	400mm	6971570711525
241-1532	500mm	6971570711532
241-1549	600mm	6971570711549

	L	a	h
50	50	5	20
75	75	5	20
100	100	5	20
125	125	5	20
150	150	6	25
200	200	6	25
300	300	8	35
400	400	8	35
500	500	10	42
600	600	10	42

Acute angle squares 45°

- DIN875/2
- Insulation logo plate
- Flat type
- Made of stainless steel
- Packed in cardbox



Art No.	Size	Section	Barcode
240-2034	100x70mm	20x5mm	6971570712034
240-2041	120x80mm	20x5mm	6971570712041
240-2058	150x100mm	20x5mm	6971570712058
240-2065	200x130mm	20x5mm	6971570712065
240-2072	250x160mm	20x5mm	6971570712072
240-2089	300x200mm	30x6mm	6971570712089

Acute angle squares 45° with base

- DIN875/2
- Insulation logo plate
- With base
- Made of stainless steel
- Packed in cardbox



Art No.	Size	Section	Barcode
240-2096	100x70mm	20x5mm	6971570712096
240-2102	120x80mm	20x5mm	6971570712102
240-2119	150x100mm	20x5mm	6971570712119
240-2126	200x130mm	20x5mm	6971570712126
240-2133	250x160mm	20x5mm	6971570712133
240-2140	300x200mm	30x6mm	6971570712140

Acute angle squares 60°

- DIN875/2
- Insulation logo plate
- Flat type
- Made of stainless steel
- Packed in cardbox



Art No.	Size	Section	Barcode
240-2157	100x70mm	20x5mm	6971570712157
240-2164	120x80mm	20x5mm	6971570712164
240-2171	150x100mm	20x5mm	6971570712171
240-2188	200x130mm	25x5mm	6971570712188
240-2195	250x160mm	25x5mm	6971570712195
240-2201	300x200mm	30x6mm	6971570712201

K

Acute angle squares 60° with base

- DIN875/2
- Insulation logo plate
- With base
- Made of stainless steel
- Packed in cardbox



Art No.	Size	Section	Barcode
240-2218	100x70mm	20x5mm	6971570712218
240-2225	120x80mm	20x5mm	6971570712225
240-2232	150x100mm	20x5mm	6971570712232
240-2249	200x130mm	25x5mm	6971570712249
240-2256	250x160mm	25x5mm	6971570712256
240-2263	300x200mm	30x6mm	6971570712263

Hexagon squares 120°

- DIN875/2
- Insulation logo plate
- Flat type
- Made of stainless steel
- Packed in cardbox



Art No.	Size	Section	Barcode
240-2270	50x50mm	15x5mm	6971570712270
240-2287	75x75mm	18x5mm	6971570712287
240-2294	100x100mm	20x5mm	6971570712294
240-2300	150x150mm	25x5mm	6971570712300
240-2317	200x200mm	30x6mm	6971570712317

Mitre squares 135° with base

- DIN875/2
- Insulation logo plate
- With base
- Made of stainless steel
- Packed in cardbox



Art No.	Size	Section	Barcode
240-2324	100x70mm	20x5mm	6971570712270
240-2331	120x80mm	20x5mm	6971570712287
240-2348	150x100mm	20x5mm	6971570712294
240-2355	200x130mm	25x5mm	6971570712300
240-2362	250x165mm	25x5mm	6971570712317
240-2379	300x175mm	30x6mm	6971570712379

Protractors



- For measuring 0-180°, graduation 1°
- Made of carbon steel
- Satin chromed finish, with locking screw
- Packed in soft pouch

Art No.	Size	Barcode
242-0597	80x120mm	6971570710597
242-0603	120x150mm	6971570710603
242-0610	150x200mm	6971570710610
242-0627	200x300mm	6971570710627
242-0634	300x500mm	6971570710634
242-0641	400x600mm	6971570710641

K

Protractors



- For measuring 10-170°, graduation 1°
- Made of carbon steel
- Moveable blade
- Satin chromed finish, with locking screw
- Packed in soft pouch

Art No.	Size	Barcode
242-0658	100x150mm	6971570710658
242-0665	150x300mm	6971570710665
242-0672	200x400mm	6971570710672
242-0689	250x500mm	6971570710689
242-0696	300x600mm	6971570710696

Digital protractor

- Applicable to fast and accuracy measurement
- Measuring range : 0-180°
- Made of stainless steel
- All Measuring faces are treated through quenching



Art No.	Size	Measuring range	Reading	Accuracy error	Barcode
242-150	120x150mm	0-180°	0.05°	±15'	6972727950613
242-200	150x200mm	0-180°	0.05°	±15'	6972727950620
242-300	200x300mm	0-180°	0.05°	±15'	6972727950637

Protractors

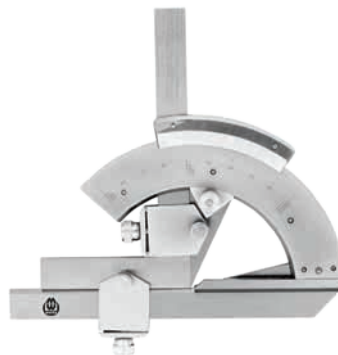
- For measuring 0-180°, graduation 1°
- Made of carbon steel
- Rectangular plate
- Satin chromed finish, with locking screw
- Packed in soft pouch



Art No.	Size	Barcode
242-0580	85x150mm	6971570710580

Vernier protractor

- Made of stainless steel
- With fine adjustment
- Satin chrome plated
- Multiple combination of measuring methods

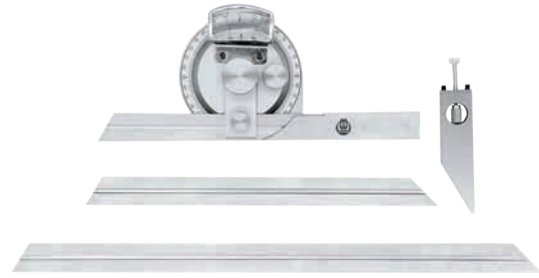


Art No.	Measuring range	Reading	Accuracy error	Barcode
242-0644	0-320°	2'	±2	6972727950644

Universal bevel protractors



- Made of stainless steel
- Laser marking graduation
- All measuring face hardened and lapped
- With fine adjustment
- Adjustable bezel
- Acute angle base as standard accessory
- Measuring range 360°, Reading 5', accuracy $\pm 5'$
- Packed in cardbox



Art No.	Barcode	Noted
242-0504	6971570710504	include 150/200/300mm blade

K

Digital universal bevel protractors



- Made of stainless steel
- All measuring face hardened and lapped
- Measuring range 360°
- Large LCD display with clear reading
- Two display lines, up line with 0.005° reading and down line with 30"
- Preset to 360°/180°/90°, two measuring directions selectable
- With buttons Mode, SET, ZERO/ON and OFF
- With locking screw system
- Acute angle base as standard accessory
- Packed in cardbox with 1 x 3V battery CR2032



Art No.	Barcode	Noted
242-0511	6971570710511	include 150/200/300mm blade

Smart Precision Inspection Spirit Level

For leveling and adjusting machines in a fast manner with combination of measuring terminal and hand-held device, more devices available for synchronous operation



Art No.	Range	Repeatability	Power	Barcode
6128-N05	$\pm 0.5\text{mm/m}$	0.02mm/m	DC3.7V	6972727957391

Combination square

- Made of cast iron
- Square head, protractor and center head
- Stainless steel blade with etched clear graduation
- Fine milled measuring faces
- Blade graduation:
For metric: top 1/2mm bottom 1mm, rear side same
For metric/inch: top 1/2mm bottom 1mm, top 1/64"inch bottom 1/32" inch on rear side
For inch: top 1/64 inch bottom 1/32 inch, rear side same
- Packed in plastic box



Art No.	Blade Size	Barcode
240-0726	300mm	6971570710726
240-0733	300mm/12"	6971570710733
240-0740	12"	6971570710740

Digital inclinometer

**Ideal tool for precise leveling ,measuring of squareness.
IP65 protection, water and dust resistant.**

- Sturdy housing with aluminium double-sided V-frame
- Large LCD display , with backlight
- Display always read upright, no matter which way the level is turned
- With data hold function, ABS system easy for self calibration
- ON/OFF and zero button, zero setting at any position
- No special instruments needed for recalibration
- Measuring range 360° (4x90°)
- Resolution 0.05°
- Accuracy : 0°and 90°±0.1°; the other angle ±0.2°
- Battery: AAA x2
- Packed in card box



Art No.	Barcode
242-0702	6971570710702

Digital inclinometer

Easy to use gauge for angle finding, for many applications.

- Large LCD for easy reading, LCD display is foldable
- With magnetic V-base
- Two buttons: ON/OFF, HOLD
- Degree and slope conversion
- Unit size of product: 55x57x32mm
- Measuring range $\pm 180^\circ$
- Resolution 0.1°
- Battery: AAA x2
- Packed in card box

Art No.	Barcode
242-0719	6971570710719



K

Spirit level

- Made of special cast iron with high resistance to wear
- V-groove on the bottom

Art No.	Size	Accuracy error	Barcode
6126-1502	150mm	0.02mm	6972727952358
6126-2002	200mm	0.02mm	6972727952365
6126-3002	300mm	0.02mm	6972727952372



Frame spirit level

- Made of special cast iron with high resistance to wear
- V-groove on the bottom and the vertical edge

Art No.	Size	Accuracy	Barcode
6125-1502	150x150mm	0.02mm	6972727952389
6125-2002	200x200mm	0.02mm	6972727952396
6125-3002	300x300mm	0.02mm	6972727952402



GAUGE AND BLOCKS

GAUGE BLOCK

•

OPTICAL FLAT

•

PLAIN PLUG/RING GAUGE

•

FEELER GAUGE

•

TAPER GAUGE

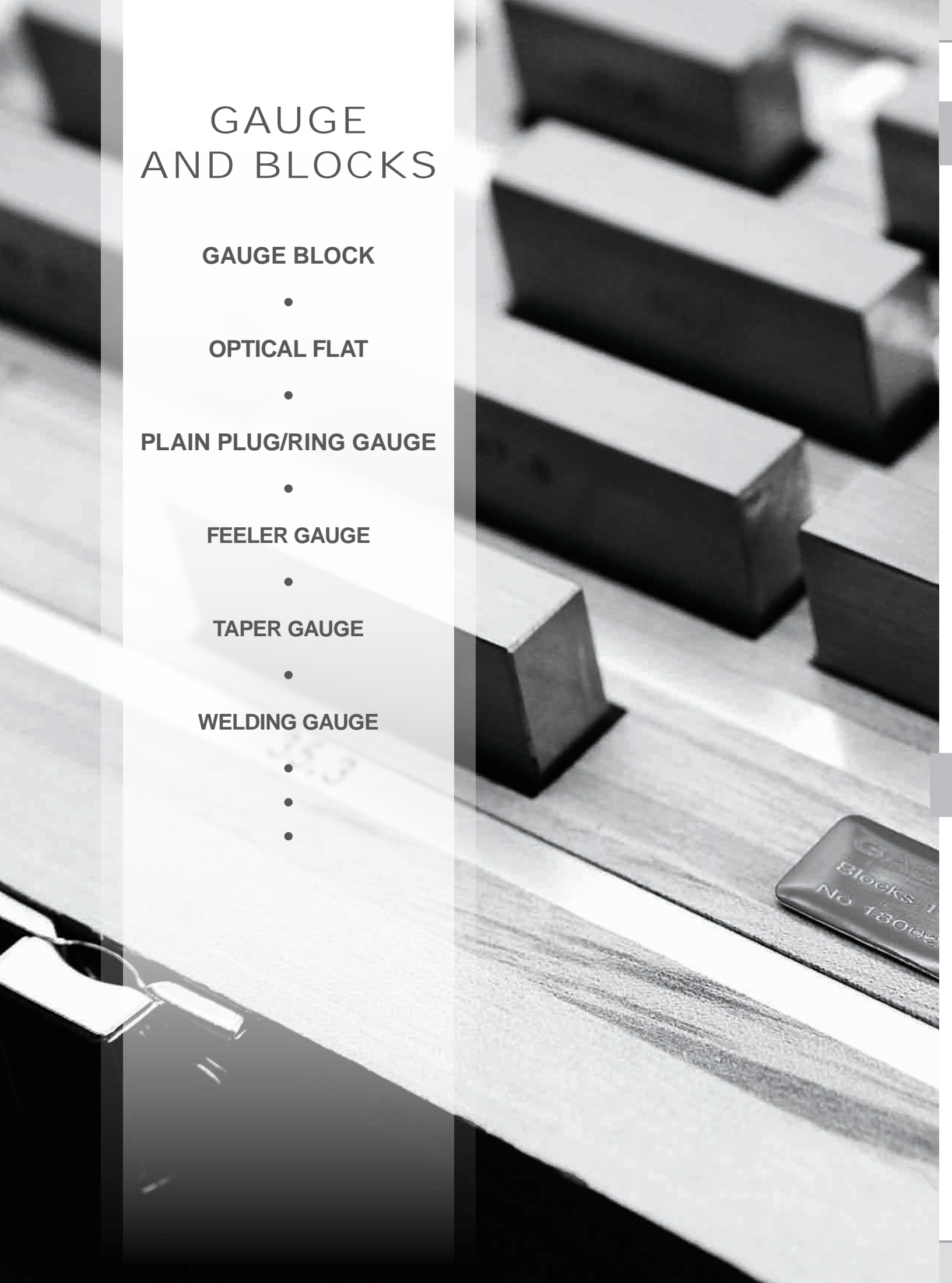
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WELDING GAUGE

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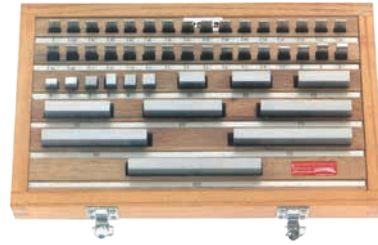


Steel gauge block sets



According to GOST 9038-90

- Made from high quality alloy steel
- With individual certificate
- Packed in wooden box
- Dakks certificate for metric is available basis on requirement with additional cost



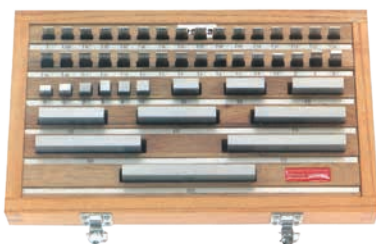
Grade 0		Grade 1		Grade 2		Pcs/Set	Nominal Size (mm)	Steps (mm)	Pieces
Art No.	Barcode	Art No.	Barcode	Art No.	Barcode				
5100-112-0	6972727952631	5100-112-1	6972727952648	5100-112-2	6972727952655	112	1.005	/	1
							1.0-1.5	0.01	51
							1.6-2	0.1	5
							0.5	0.5	1
							2.5-25	0.5	46
5100-83-0	6972727952662	5100-83-1	6972727952679	5100-83-2	6972727952686	83	30-100	10	8
							1.005	/	1
							1.0-1.5	0.01	51
							1.6-2	0.1	5
							0.5	0.5	1
5100-38-0	6972727952693	5100-38-1	6972727952709	5100-38-2	6972727952716	38	2.5-10	0.5	16
							20-100	10	9
							1.005	/	1
							1.01 -1.1	0.01	1
							1.2-2	0.1	11
							3-10	1	8
							20-100	10	9

Carbide gauge block sets



According to GOST 9038-90

- Made from cemented carbide
- With individual certificate
- Packed in wooden box
- Dakks certificate for metric is available basis on requirement with additional cost



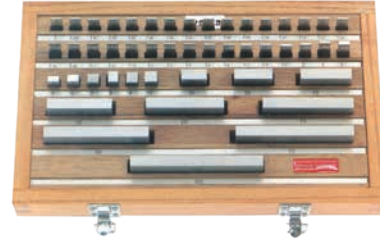
Grade 1		Pcs/Set	Nominal Size (mm)	Steps (mm)	Pieces
Art No.	Barcode				
5101-112-1	6972727952747	112	1.005	/	1
			1.0-1.5	0.01	51
			1.6-2	0.1	5
			0.5	0.5	1
			2.5-25	0.5	46
5101-83-1	6972727952730	83	30-100	10	8
			1.005	/	1
			1.0-1.5	0.01	51
			1.6-2	0.1	5
			0.5	0.5	1
5101-38-1	6972727952723	38	2.5-10	0.5	16
			20-100	10	9
			1.005	/	1
			1.01 -1.1	0.01	1
			1.2-2	0.1	11
			3-10	1	8
			20-100	10	9

Steel gauge block sets



According to DIN EN ISO 3650 for metric.
ASME B89.1.9-2002 for inch.

- Made from high quality alloy steel
- Hardness of measuring face \geq HRC64
- With individual certificate
- Packed in wooden box
- Dakks certificate for metric is available basis on requirement with additional cost



FOR METRIC

Grade 0		Grade 1		Grade 2		Pcs/Set	Nominal Size (mm)	Steps (mm)	Pieces
Art No.	Barcode	Art No.	Barcode	Art No.	Barcode				
280-5035	6971570715035	280-5042	6971570715042	280-5059	6971570715059	103	1.005	/	1
							1.01 - 1.49	0.01	49
							0.5 - 24.5	0.5	49
							25 - 100	25	4
280-5066	6971570715066	280-5073	6971570715073	280-5080	6971570715080	87	1.001 - 1.009	0.001	9
							1.01 - 1.49	0.01	49
							0.5-9.5	0.5	19
280-5097	6971570715097	280-5103	6971570715103	280-5110	6971570715110	47	10-100	10	10
							1.005	/	1
							1.01 - 1.9	0.01	9
							1.1-1.9	0.1	9
280-5127	6971570715127	280-5134	6971570715134	280-5141	6971570715141	32	1-24	1	24
							25-100	25	4
							1.005	/	1
							1.01 - 1.09	0.01	9
							1.1 - 1.9	0.1	9
280-5141	6971570715141	280-5141	6971570715141	280-5141	6971570715141	32	1-9	1	9
							10-30	10	3
							50	/	1

FOR INCH

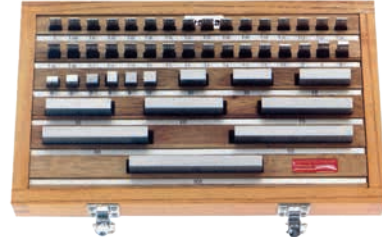
Grade 0		Grade 1		Grade 2		Pcs/Set	Nominal Size (inch)	Steps (inch)	Pieces
Art No.	Barcode	Art No.	Barcode	Art No.	Barcode				
280-5158	6971570715158	280-5165	6971570715165	280-5172	6971570715172	81	0.1001 - 0.1009"	0.0001"	9
							0.101 - 0.149"	0.001"	49
							0.05 - 0.95"	0.05"	19
							1-4"	1"	4
280-5189	6971570715189	280-5196	6971570715196	280-5202	6971570715202	36	0.1001 - 0.1009"	0.0001"	9
							0.101 - 0.109"	0.001"	9
							0.11-0.19"	0.01"	9
							0.1-0.5"	0.1"	5
							0.05", 1", 2", 4"	0.1"	4

Carbide gauge block sets



According to DIN EN ISO 3650.

- Made from cemented carbide
- Hardness about HV 1500
- With individual certificate
- Packed in wooden box
- Dakks certificate for metric is available basis on requirement with additional cost



Grade 0		Grade 1		Pcs/Set	Nominal Size (mm)	Steps (mm)	Pieces
Art No.	Barcode	Art No.	Barcode				
280-5219	6971570715219	280-5226	6971570715226	103	1.005	/	1
					1.01 - 1.49	0.01	49
					0.5 - 24.5	0.5	49
					25 - 100	25	4
280-5233	6971570715233	280-5240	6971570715240	87	1.001 - 1.009	0.001	9
					1.01 - 1.49	0.01	49
					0.5-9.5	0.5	19
280-5257	6971570715257	280-5264	6971570715264	47	10-100	10	10
					1.005	/	1
					1.01 - 1.9	0.01	9
					1.1-1.9	0.1	9
					1-24	1	24
280-5271	6971570715271	280-5288	6971570715288	32	25-100	25	4
					1.005	/	1
					1.01 - 1.09	0.01	9
					1.1 - 1.9	0.1	9
					1-9	1	9
					10-30	10	3
					50	/	1



GAUGE BLOCK

Ceramic Parallel Block Set

According to DIN EN ISO3650

- Made of zirconia (ZrO₂)
- Higher hardness and nicer durability
- Incl. WERKA test certificate
- High quality wooden case
- Dakks test certificate available, additional charges required



Grade 0		Grade 1		Pcs/Set	Nominal Size (mm)	Steps (mm)	Pieces
Art No.	Barcode	Art No.	Barcode				
5101-103-C0	6972727958329	5101-103-C1	6972727958336	103	1.005	/	1
					1.01 - 1.49	0.01	49
					0.5 - 24.5	0.5	49
					25 - 100	25	4
5101-87-C0	6972727958343	5101-87-C1	6972727958350	87	1.001 - 1.009	0.001	9
					1.01 - 1.49	0.01	49
					0.5-9.5	0.5	19
					10-100	10	10
5101-47-C0	6972727958367	5101-47-C1	6972727958374	47	1.005	/	1
					1.01 - 1.9	0.01	19
					1.2-1.9	0.1	8
					1-9	1	9
					10-100	10	10
5101-32-C0	6972727958381	5101-32-C1	6972727958398	32	1.005	/	1
					1.01 - 1.09	0.01	9
					1.1 - 1.9	0.1	9
					1-9	1	9
					10-30	10	3
					50	/	1

Steel gauge block sets



According to DIN EN ISO 3650.

- For checking outside micrometers
- Alloy steel hardened, ground and finely lapped
- Packed in wooden box
- Dakks certificate for metric is available basis on requirement with additional cost



Art No.	Grade	Pcs/Set	Content	Barcode
280-5325	1	10	2.5 / 5.1 / 7.7 / 10.3 / 12.9 / 15.0 / 17.6 / 20.2 / 22.8 / 25.0	6971570715295
280-5332	1	11	25 / 27.5 / 30.1 / 32.7 / 35.3 / 37.9 / 40.0 / 42.6 / 45.2 / 47.8 / 50	6971570715301
280-5349	1	11	50 / 52.5 / 55.1 / 57.7 / 60.3 / 62.9 / 65.0 / 67.6 / 70.2 / 72.8 / 75	6971570715318
280-5356	1	11	75 / 77.5 / 80.1 / 82.7 / 85.3 / 87.9 / 90.0 / 92.6 / 95.2 / 97.8 / 100.0	

Vernier caliper control gauge block sets



According to DIN EN ISO 3650.

- For checking calipers
- Alloy steel hardened, ground and finely lapped
- Packed in wooden box
- Dakks certificate for metric is available basis on requirement with additional cost



Art No.	Grade	Pcs/Set	Content	Barcode
280-5295	1	2+1	41.3 / 131.40 / ring gauge 20mm	6971570715295
280-5301	1	3+1	41.3 / 131.40 / 243.50 / ring gauge 20mm	6971570715301
280-5318	1	4+1	41.3 / 131.40 / 243.50 / 281.20 / ring gauge 20mm	6971570715318

Optical flat

- For inspection the flatness of measuring face
- For testing the parallelism of measuring faces of micrometers
- Parallelism $\leq 0.20\mu\text{m}$
- Packed in wooden box



Art No.	Diameter	Thickness	Flatness μm	Barcode
280-6872	$\varnothing 45\text{mm}$	15mm	≤ 0.1	6971570716872

Optical flats set

- For inspection the flatness of measuring face
- For testing the parallelism of measuring faces of micrometers
- 4pcs/set
- packed in wooden box



Art No.	Diameter	Parallelism μm	Flatness μm	Content	Barcode
280-5363	$\varnothing 30\text{mm}$	$\leq 0.2\mu\text{m}$	$\leq 0.1\mu\text{m}$	12/12.12/12.25/12.37	6971570715363
280-5370	$\varnothing 30\text{mm}$	$\leq 0.2\mu\text{m}$	$\leq 0.1\mu\text{m}$	25/25.12/25.25/25.37	6971570715370

Steel Ball Set

For the measurement of taper hole angle and hole diameter

- 50pcs per set
- Made of bearing steel (Gcr15)
- HRC63
- 2pcs for each size
- High quality plastic case



Art No.	Measuring range	Barcode
5111-25	1-25mm	6972727957834

Precision Measuring Steel Pins

Made of High Speed Steel according to JJF standard

- 51pcs per set
- High speed steel, HRC63
- Precision up to 0.001mm
- Length 50mm
- Incl. pin holder, easy combination with GO/NO GO gauges
- High quality plastic case



Art No.	Size	Steps	Set	Barcode
5130-051-01	1.00 1.01...1.49 1.50mm	0.01mm	51	6972727955502
5130-051-02	1.50 1.51...1.99 2.00mm	0.01mm	51	6972727955519
5130-051-03	2.00 2.01...2.49 2.50mm	0.01mm	51	6972727955526
5130-051-04	2.50 2.51...2.99 3.00mm	0.01mm	51	6972727955533
5130-051-05	3.00 3.01...3.49 3.50mm	0.01mm	51	6972727955540
5130-051-06	3.50 3.51...3.99 4.00mm	0.01mm	51	6972727955557
5130-051-07	4.00 4.01...4.49 4.50mm	0.01mm	51	6972727955564
5130-051-08	4.50 4.51...4.99 5.00mm	0.01mm	51	6972727955571
5130-051-09	5.00 5.01...5.49 5.50mm	0.01mm	51	6972727955588
5130-051-10	5.50 5.51...5.99 6.00mm	0.01mm	51	6972727955595
5130-051-11	6.00 6.01...6.49 6.50mm	0.01mm	51	6972727955601
5130-051-12	6.50 6.51...6.99 7.00mm	0.01mm	51	6972727955618
5130-051-13	7.00 7.01...7.49 7.50mm	0.01mm	51	6972727955625
5130-051-14	7.50 7.51...7.99 8.00mm	0.01mm	51	6972727955632
5130-051-15	8.00 8.01...8.49 8.50mm	0.01mm	51	6972727955649
5130-051-16	8.50 8.51...8.99 9.00mm	0.01mm	51	6972727955656
5130-051-17	9.00 9.01...9.49 9.50mm	0.01mm	51	6972727955663
5130-051-18	9.50 9.51...9.99 10.00mm	0.01mm	51	6972727955670

Plain plug gauge



The size small than 60mm one handle with GO and NOGO.

From the size 60mm, GO and NOGO has individual handle.

- DIN2245
- Tolerance H7
- Special steel, finely ground and lapped
- Packed in plastic tube
- Deliver with certificate

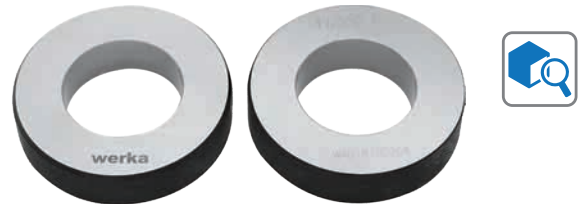


Art No.	Size	Barcode
261-2614	ø2	6971570712614
261-2621	ø2.5	6971570712621
261-2638	ø3	6971570712638
261-2645	ø3.5	6971570712645
261-2652	ø4	6971570712652
261-2669	ø4.5	6971570712669
261-2676	ø5	6971570712676
261-2683	ø6	6971570712683
261-2690	ø7	6971570712690
261-2706	ø8	6971570712706
261-2713	ø9	6971570712713
261-2720	ø10	6971570712720
261-2737	ø11	6971570712737
261-2744	ø12	6971570712744
261-2898	ø27	6971570712898
261-2904	ø28	6971570712904
261-2911	ø29	6971570712911
261-2928	ø30	6971570712928
261-2935	ø31	6971570712935
261-2942	ø32	6971570712942
261-2959	ø33	6971570712959
261-2966	ø34	6971570712966
261-2973	ø35	6971570712973
261-2980	ø36	6971570712980
261-2997	ø37	6971570712997
261-3000	ø38	6971570713000
261-3017	ø40	6971570713017
261-3024	ø42	6971570713024
261-3031	ø44	6971570713031
261-3048	ø45	6971570713048
261-3055	ø46	6971570713055
261-3062	ø47	6971570713062
261-3079	ø48	6971570713079
261-3086	ø50	6971570713086

Art No.	Size	Barcode
261-2751	ø13	6971570712751
261-2768	ø14	6971570712768
261-2775	ø15	6971570712775
261-2782	ø16	6971570712782
261-2799	ø17	6971570712799
261-2805	ø18	6971570712805
261-2812	ø19	6971570712812
261-2829	ø20	6971570712829
261-2836	ø21	6971570712836
261-2843	ø22	6971570712843
261-2850	ø23	6971570712850
261-2867	ø24	6971570712867
261-2874	ø25	6971570712874
261-2881	ø26	6971570712881
261-3093	ø52	6971570713093
261-3109	ø55	6971570713109
261-6865	ø58	6971570716865
261-3116	ø60	6971570713116
261-3123	ø62	6971570713123
261-3130	ø65	6971570713130
261-3147	ø68	6971570713147
261-3154	ø70	6971570713154
261-3161	ø72	6971570713161
261-3178	ø75	6971570713178
261-3185	ø78	6971570713185
261-3192	ø80	6971570713192
261-3208	ø82	6971570713208
261-3215	ø85	6971570713215
261-3222	ø88	6971570713222
261-3239	ø90	6971570713239
261-3246	ø92	6971570713246
261-3253	ø95	6971570713253
261-3260	ø98	6971570713260
261-3277	ø100	6971570713277

Plain setting ring gauge

- According to DIN2250C
- Special steel, finely ground and lapped
- Packed in plastic box
- Deliver with certificate



Art No.	Size	Barcode
261-3284	ø3	6971570713284
261-3291	ø4	6971570713291
261-3307	ø5	6971570713307
261-3314	ø6	6971570713314
261-3321	ø7	6971570713321
261-3338	ø8	6971570713338
261-3345	ø9	6971570713345
261-3352	ø10	6971570713352
261-3369	ø11	6971570713369
261-3376	ø12	6971570713376
261-3482	ø23	6971570713482
261-3499	ø24	6971570713499
261-3505	ø25	6971570713505
261-3512	ø26	6971570713512
261-3529	ø27	6971570713529
261-3536	ø28	6971570713536
261-3543	ø30	6971570713543
261-3550	ø32	6971570713550
261-3567	ø33	6971570713567
261-3574	ø34	6971570713574
261-3581	ø35	6971570713581
261-3598	ø36	6971570713598
261-3604	ø37	6971570713604
261-3611	ø38	6971570713611
261-3628	ø40	6971570713628
261-3635	ø42	6971570713635
261-3642	ø44	6971570713642
261-3659	ø45	6971570713659
261-3666	ø46	6971570713666
261-3673	ø47	6971570713673
261-3680	ø48	6971570713680
261-3697	ø50	6971570713697
261-3703	ø52	6971570713703
261-3710	ø53	6971570713710
261-3727	ø54	6971570713727
261-3734	ø55	6971570713734
261-3741	ø58	6971570713741
261-3758	ø60	6971570713758
261-3765	ø62	6971570713765
261-3772	ø65	6971570713772
261-3789	ø68	6971570713789

Art No.	Size	Barcode
261-3383	ø13	6971570713383
261-3390	ø14	6971570713390
261-3406	ø15	6971570713406
261-3413	ø16	6971570713413
261-3420	ø17	6971570713437
261-3437	ø18	6971570713437
261-3444	ø19	6971570713444
261-3451	ø20	6971570713451
261-3468	ø21	6971570713468
261-3475	ø22	6971570713475
261-3796	ø70	6971570713796
261-3802	ø72	6971570713802
261-3819	ø75	6971570713819
261-3826	ø80	6971570713826
261-3833	ø85	6971570713833
261-3840	ø90	6971570713840
261-3857	ø95	6971570713857
261-3864	ø100	6971570713864
261-3871	ø105	6971570713871
261-3888	ø110	6971570713888
261-3895	ø115	6971570713895
261-3901	ø120	6971570713901
261-3918	ø125	6971570713918
261-3925	ø130	6971570713925
261-3932	ø135	6971570713932
261-3949	ø140	6971570713949
261-3956	ø145	6971570713956
261-3963	ø150	6971570713963
261-3970	ø155	6971570713970
261-3987	ø160	6971570713987
261-3994	ø165	6971570713994
261-4007	ø170	6971570714007
261-4014	ø175	6971570714014
261-4021	ø180	6971570714021
261-4038	ø190	6971570714038
261-4045	ø195	6971570714045
261-4052	ø200	6971570714052
261-4069	ø225	6971570714069
261-4076	ø250	6971570714076
261-4083	ø275	6971570714083

Thread Plug Gauges, Metric Thread



According to DIN13 6H standard

- Right hand thread
- Finely ground and lapped
- Incl. Dakks test certificate
- High quality plastic tube



Art No.	Nominal Diameter × pitch	Type: GO/NO
5109-01-2	M1x0.25	GO
5109-012-2	M1.2x0.25	GO
5109-014-3	M1.4x0.3	GO
5109-016-4	M1.6x0.35	GO
5109-017-4	M1.7x0.35	GO
5109-018-4	M1.8x0.35	GO
5109-02-5	M2x0.4	GO
5109-025-6	M2.5x0.45	GO
5109-026	M2.6x0.45	GO
5109-03-7	M3x0.5	GO
5109-035-8	M3.5x0.6	GO
5109-04-9	M4x0.7	GO
5109-05-11	M5x0.8	GO
5109-06-12	M6x1	GO
5109-07-12	M7x1	GO
5109-08-13	M8x1.25	GO
5109-09-13	M9x1.25	GO
5109-10-14	M10x1.5	GO
5109-12-15	M12x1.75	GO
5109-14-16	M14x2	GO
5109-16-16	M16x2	GO
5109-18-17	M18x2.5	GO
5109-20-17	M20x2.5	GO
5109-22-17	M22x2.5	GO
5109-24-18	M24x3	GO
5109-27-18	M27x3	GO
5109-30-19	M30x3.5	GO

Art No.	Nominal Diameter × pitch	Type: GO/NO
5109-33-19	M33x3.5	GO
5109-36-20	M36x4	GO
5109-39-20	M39x4	GO
5109-42-21	M42x4.5	GO
5109-45-21	M45x4.5	GO
5109-48-22	M48x5	GO
5109-52-22	M52x5	GO
5109-56-23	M56x5.5	GO
5109-60-23	M60x5.5	GO
5109-62-23	M62x5.5	GO
5109-64-24	M64x6	GO
5109-65-24	M65x6	GO
5109-68-24	M68x6	GO
5109-69-24	M69x6	GO
5109-70-24	M70x6	GO
5109-72-24	M72x6	GO
5109-75-24	M75x6	GO
5109-76-24	M76x6	GO
5109-80-24	M80x6	GO
5109-82-24	M82x6	GO
5109-85-24	M85x6	GO
5109-88-24	M88x6	GO
5109-90-24	M90x6	GO
5109-92-24	M92x6	GO
5109-95-24	M95x6	GO
5109-98-24	M98x6	GO
5109-100-24	M100x6	GO

Thread Plug Gauges, Metric Fine Thread



According to DIN13 6H standard

- Right hand thread
- Finely ground and lapped
- Incl. Dakks test certificate
- High quality plastic tube



Art No.	Nominal Diameter × pitch	Type: GO/NO
5109-02-4	M2x0.35	GO
5109-022-4	M2.2x0.35	GO
5109-025-4	M2.5x0.35	GO
5109-03-4	M3x0.35	GO
5109-035-4	M3.5x0.35	GO
5109-04-4	M4x0.35	GO
5109-045-4	M4.5x0.35	GO
5109-05-4	M5x0.35	GO
5109-055-4	M5.5x0.35	GO
5109-06-4	M6x0.35	GO
5109-065-4	M6.5x0.35	GO
5109-07-4	M7x0.35	GO
5109-075-4	M7.5x0.35	GO
5109-08-4	M8x0.35	GO
5109-09-4	M9x0.35	GO
5109-10-4	M10x0.35	GO
5109-04-7	M4x0.5	GO
5109-05-7	M5x0.5	GO
5109-06-7	M6x0.5	GO
5109-07-7	M7x0.5	GO
5109-08-7	M8x0.5	GO
5109-09-7	M9x0.5	GO
5109-10-7	M10x0.5	GO
5109-12-7	M12x0.5	GO
5109-05-10	M5x0.75	GO
5109-06-10	M6x0.75	GO
5109-07-10	M7x0.75	GO
5109-08-10	M8x0.75	GO
5109-09-10	M9x0.75	GO
5109-10-10	M10x0.75	GO
5109-11-10	M11x0.75	GO
5109-12-10	M12x0.75	GO
5109-17-10	M17x0.75	GO
5109-08-12	M8x1	GO
5109-09-12	M9x1	GO
5109-10-12	M10x1	GO
11/12/5109	M11x1	GO
5109-12-12	M12x1	GO
5109-13-12	M13x1	GO
5109-14-12	M14x1	GO
5109-15-12	M15x1	GO
5109-16-12	M16x1	GO
5109-17-12	M17x1	GO
5109-18-12	M18x1	GO

Art No.	Nominal Diameter × pitch	Type: GO/NO
5109-20-12	M20x1	GO
5109-21-12	M21x1	GO
5109-22-12	M22x1	GO
5109-23-12	M23x1	GO
5109-24-12	M24x1	GO
5109-25-12	M25x1	GO
5109-26-12	M26x1	GO
5109-27-12	M27x1	GO
5109-28-12	M28x1	GO
5109-30-12	M30x1	GO
5109-32-12	M32x1	GO
5109-33-12	M33x1	GO
5109-34-12	M34x1	GO
5109-35-12	M35x1	GO
5109-36-12	M36x1	GO
5109-37-12	M37x1	GO
5109-38-12	M38x1	GO
5109-39-12	M39x1	GO
5109-40-12	M40x1	GO
5109-42-12	M42x1	GO
5109-45-12	M45x1	GO
5109-48-12	M48x1	GO
5109-50-12	M50x1	GO
5109-52-12	M52x1	GO
5109-55-12	M55x1	GO
5109-56-12	M56x1	GO
5109-58-12	M58x1	GO
5109-60-12	M60x1	GO
5109-62-12	M62x1	GO
5109-64-12	M64x1	GO
5109-65-12	M65x1	GO
5109-68-12	M68x1	GO
5109-70-12	M70x1	GO
5109-72-12	M72x1	GO
5109-75-12	M75x1	GO
5109-78-12	M78x1	GO
5109-80-12	M80x1	GO
5109-10-13	M10x1.25	GO
5109-12-13	M12x1.25	GO
5109-14-13	M14x1.25	GO
5109-16-13	M16x1.25	GO
5109-10-14	M10x1.5	GO
5109-12-14	M12x1.5	GO
5109-14-14	M14x1.5	GO

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Art No.	Nominal Diameter xpitch	Type: GO/NO
5109-16-14	M16x1.5	GO
5109-17-14	M17x1.5	GO
5109-18-14	M18x1.5	GO
5109-20-14	M20x1.5	GO
5109-22-14	M22x1.5	GO
5109-24-14	M24x1.5	GO
5109-25-14	M25x1.5	GO
5109-26-14	M26x1.5	GO
5109-27-14	M27x1.5	GO
5109-28-14	M28x1.5	GO
5109-30-14	M30x1.5	GO
5109-32-14	M32x1.5	GO
5109-33-14	M33x1.5	GO
5109-34-14	M34x1.5	GO
5109-35-14	M35x1.5	GO
5109-36-14	M36x1.5	GO
5109-37-14	M37x1.5	GO
5109-38-14	M38x1.5	GO
5109-39-14	M39x1.5	GO
5109-40-14	M40x1.5	GO
5109-42-14	M42x1.5	GO
5109-43-14	M43x1.5	GO
5109-45-14	M45x1.5	GO
5109-48-14	M48x1.5	GO
5109-50-14	M50x1.5	GO
5109-52-14	M52x1.5	GO
5109-54-14	M54x1.5	GO
5109-55-14	M55x1.5	GO
5109-56-14	M56x1.5	GO
5109-58-14	M58x1.5	GO
5109-60-14	M60x1.5	GO
5109-62-14	M62x1.5	GO
5109-64-14	M64x1.5	GO
5109-65-14	M65x1.5	GO
5109-68-14	M68x1.5	GO
5109-69-14	M69x1.5	GO
5109-70-14	M70x1.5	GO
5109-72-14	M72x1.5	GO
5109-75-14	M75x1.5	GO
5109-76-14	M76x1.5	GO
5109-80-14	M80x1.5	GO
5109-82-14	M82x1.5	GO
5109-85-14	M85x1.5	GO
5109-88-14	M88x1.5	GO
5109-90-14	M90x1.5	GO
5109-92-14	M92x1.5	GO
5109-95-14	M95x1.5	GO
5109-98-14	M98x1.5	GO
5109-100-14	M100x1.5	GO
5109-18-16	M18x2	GO
5109-20-16	M20x2	GO
5109-22-16	M22x2	GO
5109-24-16	M24x2	GO
5109-26-16	M26x2	GO
5109-27-16	M27x2	GO
5109-28-16	M28x2	GO
5109-30-16	M30x2	GO
5109-33-16	M33x2	GO
5109-34-16	M34x2	GO
5109-35-16	M35x2	GO
5109-36-16	M36x2	GO
5109-38-16	M38x2	GO

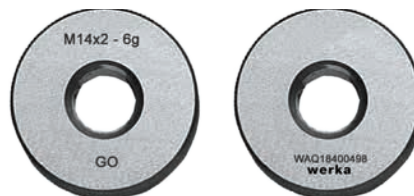
Art No.	Nominal Diameter xpitch	Type: GO/NO
5109-39-16	M39x2	GO
5109-40-16	M40x2	GO
5109-42-16	M42x2	GO
5109-45-16	M45x2	GO
5109-48-16	M48x2	GO
5109-50-16	M50x2	GO
5109-52-16	M52x2	GO
5109-55-16	M55x2	GO
5109-56-16	M56x2	GO
5109-58-16	M58x2	GO
5109-60-16	M60x2	GO
5109-62-16	M62x2	GO
5109-64-16	M64x2	GO
5109-65-16	M65x2	GO
5109-68-16	M68x2	GO
5109-70-16	M70x2	GO
5109-72-16	M72x2	GO
5109-75-16	M75x2	GO
5109-76-16	M76x2	GO
5109-78-16	M78x2	GO
5109-80-16	M80x2	GO
5109-82-16	M82x2	GO
5109-85-16	M85x2	GO
5109-88-16	M88x2	GO
5109-90-16	M90x2	GO
5109-92-16	M92x2	GO
5109-95-16	M95x2	GO
5109-98-16	M98x2	GO
5109-100-16	M100x2	GO
5109-24-18	M24x3	GO
5109-30-18	M30x3	GO
5109-33-18	M33x3	GO
5109-36-18	M36x3	GO
5109-39-18	M39x3	GO
5109-40-18	M40x3	GO
5109-42-18	M42x3	GO
5109-45-18	M45x3	GO
5109-48-18	M48x3	GO
5109-50-18	M50x3	GO
5109-52-18	M52x3	GO
5109-55-18	M55x3	GO
5109-56-18	M56x3	GO
5109-58-18	M58x3	GO
5109-60-18	M60x3	GO
5109-62-18	M62x3	GO
5109-65-18	M65x3	GO
5109-68-18	M68x3	GO
5109-70-18	M70x3	GO
5109-72-18	M72x3	GO
5109-75-18	M75x3	GO
5109-76-18	M76x3	GO
5109-78-18	M78x3	GO
5109-80-18	M80x3	GO
5109-82-18	M82x3	GO
5109-85-18	M85x3	GO
5109-88-18	M88x3	GO
5109-90-18	M90x3	GO
5109-92-18	M92x3	GO
5109-95-18	M95x3	GO
5109-98-18	M98x3	GO
5109-100-18	M100x3	GO

Thread Ring Gauges, Metric Thread, GO end



According to DIN13 6g standard

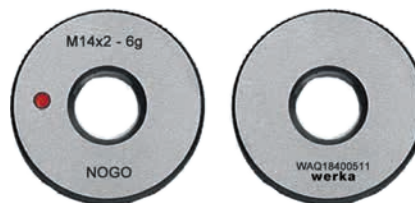
- Right hand thread
- Finely ground and lapped
- Incl. Dakks test certificate
- High quality plastic tube



Art No.	Nominal Diameter× pitch	Type: GO/NO
5110-02-5G	M2x0.4	GO
5110-025-6G	M2.5x0.45	GO
5110-03-7G	M3x0.5	GO
5110-035-8G	M3.5x0.6	GO
5110-04-9G	M4x0.7	GO
5110-05-11G	M5x0.8	GO
5110-06-12G	M6x1	GO
5110-07-12G	M7x1	GO
5110-08-13G	M8x1.25	GO
5110-09-13G	M9x1.25	GO
5110-10-14G	M10x1.5	GO
5110-12-15G	M12x1.75	GO
5110-14-16G	M14x2	GO
5110-16-16G	M16x2	GO
5110-18-17G	M18x2.5	GO
5110-20-17G	M20x2.5	GO
5110-22-17G	M22x2.5	GO
5110-24-18G	M24x3	GO
5110-27-18G	M27x3	GO
5110-30-19G	M30x3.5	GO
5110-33-19G	M33x3.5	GO
5110-36-20G	M36x4	GO
5110-39-20G	M39x4	GO
5110-42-21G	M42x4.5	GO
5110-45-21G	M45x4.5	GO

Art No.	Nominal Diameter× pitch	Type: GO/NO
5110-48-22G	M48x5	GO
5110-52-22G	M52x5	GO
5110-56-23G	M56x5.5	GO
5110-60-23G	M60x5.5	GO
5110-62-23G	M62x5.5	GO
5110-64-24G	M64x6	GO
5110-65-24G	M65x6	GO
5110-68-24G	M68x6	GO
5110-70-24G	M70x6	GO
5110-72-24G	M72x6	GO
5110-75-24G	M75x6	GO
5110-76-24G	M76x6	GO
5110-78-24G	M78x6	GO
5110-80-24G	M80x6	GO
5110-82-24G	M82x6	GO
5110-85-24G	M85x6	GO
5110-88-24G	M88x6	GO
5110-90-24G	M90x6	GO
5110-92-24G	M92x6	GO
5110-95-24G	M95x6	GO
5110-98-24G	M98x6	GO
5110-100-24G	M100x6	GO

Thread Ring Gauges, Metric Thread, NO-GO end



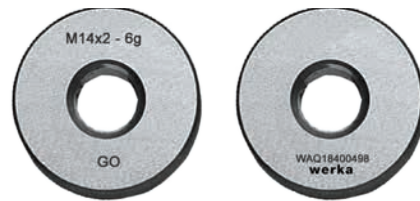
According to DIN13 6g standard

- Right hand thread
- Finely ground and lapped
- Incl. Dakks test certificate
- High quality plastic tube

Art No.	Nominal Diameter x pitch	Type: GO/NO
5110-02-5N	M2x0.4	NO-GO
5110-025-6N	M2.5x0.45	NO-GO
5110-03-7N	M3x0.5	NO-GO
5110-035-8N	M3.5x0.6	NO-GO
5110-04-9N	M4x0.7	NO-GO
5110-05-11N	M5x0.8	NO-GO
5110-06-12N	M6x1	NO-GO
5110-07-12N	M7x1	NO-GO
5110-08-13N	M8x1.25	NO-GO
5110-09-13N	M9x1.25	NO-GO
5110-10-14N	M10x1.5	NO-GO
5110-12-15N	M12x1.75	NO-GO
5110-14-16N	M14x2	NO-GO
5110-16-16N	M16x2	NO-GO
5110-18-17N	M18x2.5	NO-GO
5110-20-17N	M20x2.5	NO-GO
5110-22-17N	M22x2.5	NO-GO
5110-24-18N	M24x3	NO-GO
5110-27-18N	M27x3	NO-GO
5110-30-19N	M30x3.5	NO-GO
5110-33-19N	M33x3.5	NO-GO
5110-36-20N	M36x4	NO-GO
5110-39-20N	M39x4	NO-GO
5110-42-21N	M42x4.5	NO-GO
5110-45-21N	M45x4.5	NO-GO

Art No.	Nominal Diameter x pitch	Type: GO/NO
5110-52-22N	M52x5	NO-GO
5110-56-23N	M56x5.5	NO-GO
5110-60-23N	M60x5.5	NO-GO
5110-62-23N	M62x5.5	NO-GO
5110-64-24N	M64x6	NO-GO
5110-65-24N	M65x6	NO-GO
5110-68-24N	M68x6	NO-GO
5110-70-24N	M70x6	NO-GO
5110-72-24N	M72x6	NO-GO
5110-75-24N	M75x6	NO-GO
5110-76-24N	M76x6	NO-GO
5110-78-24N	M78x6	NO-GO
5110-80-24N	M80x6	NO-GO
5110-82-24N	M82x6	NO-GO
5110-85-24N	M85x6	NO-GO
5110-88-24N	M88x6	NO-GO
5110-90-24N	M90x6	NO-GO
5110-92-24N	M92x6	NO-GO
5110-95-24N	M95x6	NO-GO
5110-98-24N	M98x6	NO-GO
5110-100-24N	M100x6	NO-GO

Thread Ring Gauge, Metric Fine Thread, Go End



According to DIN13 6g standard

- Right hand thread
- Finely ground and lapped
- Incl. Dakks test certificate
- High quality plastic tube

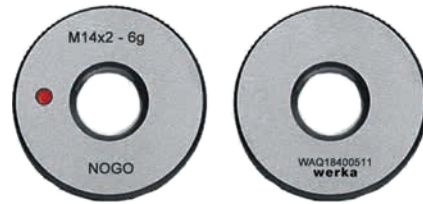
Art No.	Nominal Diameter x pitch	Type: GO/NO
5110-02-4G	M2x0.35	GO
5110-022-4G	M2.2x0.35	GO
5110-025-4G	M2.5x0.35	GO
5110-03-4G	M3x0.35	GO
5110-035-4G	M3.5x0.35	GO
5110-04-4G	M4x0.35	GO
5110-045-4G	M4.5x0.35	GO
5110-05-4G	M5x0.35	GO
5110-06-4G	M6x0.35	GO
5110-04-7G	M4x0.5	GO
5110-05-7G	M5x0.5	GO
5110-06-7G	M6x0.5	GO
5110-08-7G	M8x0.5	GO
5110-10-7G	M10x0.5	GO
5110-12-7G	M12x0.5	GO
5110-06-10G	M6x0.75	GO
5110-07-10G	M7x0.75	GO
5110-08-10G	M8x0.75	GO
5110-09-10G	M9x0.75	GO
5110-10-10G	M10x0.75	GO
5110-11-10G	M11x0.75	GO
5110-12-10G	M12x0.75	GO
5110-13-10G	M13x0.75	GO
5110-15-10G	M15x0.75	GO
5110-18-10G	M18x0.75	GO
5110-22-10G	M22x0.75	GO
5110-24-10G	M24x0.75	GO
5110-08-12G	M8x1	GO
5110-09-12G	M9x1	GO
5110-10-12G	M10x1	GO
5110-11-12G	M11x1	GO
5110-12-12G	M12x1	GO
5110-13-12G	M13x1	GO
5110-14-12G	M14x1	GO
5110-15-12G	M15x1	GO
5110-16-12G	M16x1	GO
5110-17-12G	M17x1	GO
5110-18-12G	M18x1	GO
5110-20-12G	M20x1	GO
5110-21-12G	M21x1	GO
5110-22-12G	M22x1	GO
5110-23-12G	M23x1	GO
5110-24-12G	M24x1	GO
5110-25-12G	M25x1	GO

Art No.	Nominal Diameter x pitch	Type: GO/NO
5110-26-12G	M26x1	GO
5110-27-12G	M27x1	GO
5110-28-12G	M28x1	GO
5110-30-12G	M30x1	GO
5110-32-12G	M32x1	GO
5110-33-12G	M33x1	GO
5110-34-12G	M34x1	GO
5110-35-12G	M35x1	GO
5110-36-12G	M36x1	GO
5110-38-12G	M38x1	GO
5110-39-12G	M39x1	GO
5110-40-12G	M40x1	GO
5110-42-12G	M42x1	GO
5110-45-12G	M45x1	GO
5110-48-12G	M48x1	GO
5110-50-12G	M50x1	GO
5110-52-12G	M52x1	GO
5110-55-12G	M55x1	GO
5110-58-12G	M58x1	GO
5110-60-12G	M60x1	GO
5110-62-12G	M62x1	GO
5110-64-12G	M64x1	GO
5110-65-12G	M65x1	GO
5110-68-12G	M68x1	GO
5110-70-12G	M70x1	GO
5110-72-12G	M72x1	GO
5110-75-12G	M75x1	GO
5110-76-12G	M76x1	GO
5110-78-12G	M78x1	GO
5110-80-12G	M80x1	GO
5110-10-13G	M10x1.25	GO
5110-12-13G	M12x1.25	GO
5110-14-13G	M14x1.25	GO
5110-10-14G	M10x1.5	GO
5110-12-14G	M12x1.5	GO
5110-13-14G	M13x1.5	GO
5110-14-14G	M14x1.5	GO
5110-15-14G	M15x1.5	GO
5110-16-14G	M16x1.5	GO
5110-17-14G	M17x1.5	GO
5110-18-14G	M18x1.5	GO
5110-20-14G	M20x1.5	GO
5110-22-14G	M22x1.5	GO
5110-24-14G	M24x1.5	GO

Art No.	Nominal Diameter x pitch	Type: GO/NO
5110-25-14G	M25x1.5	GO
5110-26-14G	M26x1.5	GO
5110-27-14G	M27x1.5	GO
5110-28-14G	M28x1.5	GO
5110-29-14G	M29x1.5	GO
5110-30-14G	M30x1.5	GO
5110-32-14G	M32x1.5	GO
5110-33-14G	M33x1.5	GO
5110-34-14G	M34x1.5	GO
5110-35-14G	M35x1.5	GO
5110-36-14G	M36x1.5	GO
5110-38-14G	M38x1.5	GO
5110-39-14G	M39x1.5	GO
5110-40-14G	M40x1.5	GO
5110-41-14G	M41x1.5	GO
5110-42-14G	M42x1.5	GO
5110-45-14G	M45x1.5	GO
5110-46-14G	M46x1.5	GO
5110-48-14G	M48x1.5	GO
5110-50-14G	M50x1.5	GO
5110-52-14G	M52x1.5	GO
5110-55-14G	M55x1.5	GO
5110-56-14G	M56x1.5	GO
5110-58-14G	M58x1.5	GO
5110-60-14G	M60x1.5	GO
5110-62-14G	M62x1.5	GO
5110-64-14G	M64x1.5	GO
5110-65-14G	M65x1.5	GO
5110-68-14G	M68x1.5	GO
5110-70-14G	M70x1.5	GO
5110-72-14G	M72x1.5	GO
5110-75-14G	M75x1.5	GO
5110-76-14G	M76x1.5	GO
5110-78-14G	M78x1.5	GO
5110-80-14G	M80x1.5	GO
5110-82-14G	M82x1.5	GO
5110-85-14G	M85x1.5	GO
5110-88-14G	M88x1.5	GO
5110-90-14G	M90x1.5	GO
5110-92-14G	M92x1.5	GO
5110-95-14G	M95x1.5	GO
5110-98-14G	M98x1.5	GO
5110-100-14G	M100x1.5	GO
5110-18-16G	M18x2	GO
5110-20-16G	M20x2	GO
5110-22-16G	M22x2	GO
5110-24-16G	M24x2	GO
5110-25-16G	M25x2	GO
5110-26-16G	M26x2	GO
5110-27-16G	M27x2	GO
5110-28-16G	M28x2	GO
5110-30-16G	M30x2	GO
5110-32-16G	M32x2	GO
5110-33-16G	M33x2	GO
5110-34-16G	M34x2	GO
5110-35-16G	M35x2	GO
5110-36-16G	M36x2	GO
5110-38-16G	M38x2	GO
5110-39-16G	M39x2	GO

Art No.	Nominal Diameter x pitch	Type: GO/NO
5110-40-16G	M40x2	GO
5110-42-16G	M42x2	GO
5110-44-16G	M44x2	GO
5110-45-16G	M45x2	GO
5110-46-16G	M46x2	GO
5110-48-16G	M48x2	GO
5110-50-16G	M50x2	GO
5110-52-16G	M52x2	GO
5110-55-16G	M55x2	GO
5110-56-16G	M56x2	GO
5110-58-16G	M58x2	GO
5110-60-16G	M60x2	GO
5110-62-16G	M62x2	GO
5110-64-16G	M64x2	GO
5110-65-16G	M65x2	GO
5110-68-16G	M68x2	GO
5110-70-16G	M70x2	GO
5110-72-16G	M72x2	GO
5110-75-16G	M75x2	GO
5110-78-16G	M78x2	GO
5110-80-16G	M80x2	GO
5110-82-16G	M82x2	GO
5110-85-16G	M85x2	GO
5110-88-16G	M88x2	GO
5110-90-16G	M90x2	GO
5110-92-16G	M92x2	GO
5110-95-16G	M95x2	GO
5110-98-16G	M98x2	GO
5110-100-16G	M100x2	GO
5110-30-18G	M30x3	GO
5110-33-18G	M33x3	GO
5110-36-18G	M36x3	GO
5110-39-18G	M39x3	GO
5110-40-18G	M40x3	GO
5110-42-18G	M42x3	GO
5110-45-18G	M45x3	GO
5110-48-18G	M48x3	GO
5110-50-18G	M50x3	GO
5110-52-18G	M52x3	GO
5110-55-18G	M55x3	GO
5110-58-18G	M58x3	GO
5110-60-18G	M60x3	GO
5110-62-18G	M62x3	GO
5110-65-18G	M65x3	GO
5110-68-18G	M68x3	GO
5110-70-18G	M70x3	GO
5110-72-18G	M72x3	GO
5110-75-18G	M75x3	GO
5110-78-18G	M78x3	GO
5110-80-18G	M80x3	GO
5110-82-18G	M82x3	GO
5110-85-18G	M85x3	GO
5110-88-18G	M88x3	GO
5110-90-18G	M90x3	GO
5110-92-18G	M92x3	GO
5110-95-18G	M95x3	GO
5110-98-18G	M98x3	GO
5110-100-18G	M100x3	GO

Thread Ring Gauge, Metric Fine Thread, NO-Go End



According to DIN13 6g standard

- Right hand thread
- Finely ground and lapped
- Incl. Dakks test certificate
- High quality plastic tube

Art No.	NominalDiameter x pitch	Type: GO/NO
5110-02-4N	M2x0.35	NO-GO
5110-022-4N	M2.2x0.35	NO-GO
5110-025-4N	M2.5x0.35	NO-GO
5110-03-4N	M3x0.35	NO-GO
5110-035-4N	M3.5x0.35	NO-GO
5110-04-4N	M4x0.35	NO-GO
5110-045-4N	M4.5x0.35	NO-GO
5110-05-4N	M5x0.35	NO-GO
5110-06-4N	M6x0.35	NO-GO
5110-04-7N	M4x0.5	NO-GO
5110-05-7N	M5x0.5	NO-GO
5110-06-7N	M6x0.5	NO-GO
5110-08-7N	M8x0.5	NO-GO
5110-10-7N	M10x0.5	NO-GO
5110-12-7N	M12x0.5	NO-GO
5110-06-10N	M6x0.75	NO-GO
5110-07-10N	M7x0.75	NO-GO
5110-08-10N	M8x0.75	NO-GO
5110-09-10N	M9x0.75	NO-GO
5110-10-10N	M10x0.75	NO-GO
5110-11-10N	M11x0.75	NO-GO
5110-12-10N	M12x0.75	NO-GO
5110-13-10N	M13x0.75	NO-GO
5110-15-10N	M15x0.75	NO-GO
5110-18-10N	M18x0.75	NO-GO
5110-22-10N	M22x0.75	NO-GO
5110-24-10N	M24x0.75	NO-GO
5110-08-12N	M8x1	NO-GO
5110-09-12N	M9x1	NO-GO
5110-10-12N	M10x1	NO-GO
5110-11-12N	M11x1	NO-GO
5110-12-12N	M12x1	NO-GO
5110-13-12N	M13x1	NO-GO
5110-14-12N	M14x1	NO-GO
5110-15-12N	M15x1	NO-GO
5110-16-12N	M16x1	NO-GO
5110-17-12N	M17x1	NO-GO
5110-18-12N	M18x1	NO-GO
5110-20-12N	M20x1	NO-GO
5110-21-12N	M21x1	NO-GO
5110-22-12N	M22x1	NO-GO
5110-23-12N	M23x1	NO-GO
5110-24-12N	M24x1	NO-GO
5110-25-12N	M25x1	NO-GO

Art No.	NominalDiameter x pitch	Type: GO/NO
5110-26-12N	M26x1	NO-GO
5110-27-12N	M27x1	NO-GO
5110-28-12N	M28x1	NO-GO
5110-30-12N	M30x1	NO-GO
5110-32-12N	M32x1	NO-GO
5110-33-12N	M33x1	NO-GO
5110-34-12N	M34x1	NO-GO
5110-35-12N	M35x1	NO-GO
5110-36-12N	M36x1	NO-GO
5110-38-12N	M38x1	NO-GO
5110-39-12N	M39x1	NO-GO
5110-40-12N	M40x1	NO-GO
5110-42-12N	M42x1	NO-GO
5110-45-12N	M45x1	NO-GO
5110-48-12N	M48x1	NO-GO
5110-50-12N	M50x1	NO-GO
5110-52-12N	M52x1	NO-GO
5110-55-12N	M55x1	NO-GO
5110-58-12N	M58x1	NO-GO
5110-60-12N	M60x1	NO-GO
5110-62-12N	M62x1	NO-GO
5110-64-12N	M64x1	NO-GO
5110-65-12N	M65x1	NO-GO
5110-68-12N	M68x1	NO-GO
5110-70-12N	M70x1	NO-GO
5110-72-12N	M72x1	NO-GO
5110-75-12N	M75x1	NO-GO
5110-76-12N	M76x1	NO-GO
5110-78-12N	M78x1	NO-GO
5110-80-12N	M80x1	NO-GO
5110-10-13N	M10x1.25	NO-GO
5110-12-13N	M12x1.25	NO-GO
5110-14-13N	M14x1.25	NO-GO
5110-10-14N	M10x1.5	NO-GO
5110-12-14N	M12x1.5	NO-GO
5110-13-14N	M13x1.5	NO-GO
5110-14-14N	M14x1.5	NO-GO
5110-15-14N	M15x1.5	NO-GO
5110-16-14N	M16x1.5	NO-GO
5110-17-14N	M17x1.5	NO-GO
5110-18-14N	M18x1.5	NO-GO
5110-20-14N	M20x1.5	NO-GO
5110-22-14N	M22x1.5	NO-GO
5110-24-14N	M24x1.5	NO-GO

Art No.	NominalDiameter x pitch	Type: GO/NO
5110-25-14N	M25x1.5	NO-GO
5110-26-14N	M26x1.5	NO-GO
5110-27-14N	M27x1.5	NO-GO
5110-28-14N	M28x1.5	NO-GO
5110-29-14N	M29x1.5	NO-GO
5110-30-14N	M30x1.5	NO-GO
5110-32-14N	M32x1.5	NO-GO
5110-33-14N	M33x1.5	NO-GO
5110-34-14N	M34x1.5	NO-GO
5110-35-14N	M35x1.5	NO-GO
5110-36-14N	M36x1.5	NO-GO
5110-38-14N	M38x1.5	NO-GO
5110-39-14N	M39x1.5	NO-GO
5110-40-14N	M40x1.5	NO-GO
5110-41-14N	M41x1.5	NO-GO
5110-42-14N	M42x1.5	NO-GO
5110-45-14N	M45x1.5	NO-GO
5110-46-14N	M46x1.5	NO-GO
5110-48-14N	M48x1.5	NO-GO
5110-50-14N	M50x1.5	NO-GO
5110-52-14N	M52x1.5	NO-GO
5110-55-14N	M55x1.5	NO-GO
5110-56-14N	M56x1.5	NO-GO
5110-58-14N	M58x1.5	NO-GO
5110-60-14N	M60x1.5	NO-GO
5110-62-14N	M62x1.5	NO-GO
5110-64-14N	M64x1.5	NO-GO
5110-65-14N	M65x1.5	NO-GO
5110-68-14N	M68x1.5	NO-GO
5110-70-14N	M70x1.5	NO-GO
5110-72-14N	M72x1.5	NO-GO
5110-75-14N	M75x1.5	NO-GO
5110-76-14N	M76x1.5	NO-GO
5110-78-14N	M78x1.5	NO-GO
5110-80-14N	M80x1.5	NO-GO
5110-82-14N	M82x1.5	NO-GO
5110-85-14N	M85x1.5	NO-GO
5110-88-14N	M88x1.5	NO-GO
5110-90-14N	M90x1.5	NO-GO
5110-92-14N	M92x1.5	NO-GO
5110-95-14N	M95x1.5	NO-GO
5110-98-14N	M98x1.5	NO-GO
5110-100-14N	M100x1.5	NO-GO
5110-18-16N	M18x2	NO-GO
5110-20-16N	M20x2	NO-GO
5110-22-16N	M22x2	NO-GO
5110-24-16N	M24x2	NO-GO
5110-25-16N	M25x2	NO-GO
5110-26-16N	M26x2	NO-GO
5110-27-16N	M27x2	NO-GO
5110-28-16N	M28x2	NO-GO
5110-30-16N	M30x2	NO-GO
5110-32-16N	M32x2	NO-GO
5110-33-16N	M33x2	NO-GO
5110-34-16N	M34x2	NO-GO
5110-35-16N	M35x2	NO-GO
5110-36-16N	M36x2	NO-GO
5110-38-16N	M38x2	NO-GO
5110-39-16N	M39x2	NO-GO

Art No.	NominalDiameter x pitch	Type: GO/NO
5110-40-16N	M40x2	NO-GO
5110-42-16N	M42x2	NO-GO
5110-44-16N	M44x2	NO-GO
5110-45-16N	M45x2	NO-GO
5110-46-16N	M46x2	NO-GO
5110-48-16N	M48x2	NO-GO
5110-50-16N	M50x2	NO-GO
5110-52-16N	M52x2	NO-GO
5110-55-16N	M55x2	NO-GO
5110-56-16N	M56x2	NO-GO
5110-58-16N	M58x2	NO-GO
5110-60-16N	M60x2	NO-GO
5110-62-16N	M62x2	NO-GO
5110-64-16N	M64x2	NO-GO
5110-65-16N	M65x2	NO-GO
5110-68-16N	M68x2	NO-GO
5110-70-16N	M70x2	NO-GO
5110-72-16N	M72x2	NO-GO
5110-75-16N	M75x2	NO-GO
5110-78-16N	M78x2	NO-GO
5110-80-16N	M80x2	NO-GO
5110-82-16N	M82x2	NO-GO
5110-85-16N	M85x2	NO-GO
5110-88-16N	M88x2	NO-GO
5110-90-16N	M90x2	NO-GO
5110-92-16N	M92x2	NO-GO
5110-95-16N	M95x2	NO-GO
5110-98-16N	M98x2	NO-GO
5110-100-16N	M100x2	NO-GO
5110-30-18N	M30x3	NO-GO
5110-33-18N	M33x3	NO-GO
5110-36-18N	M36x3	NO-GO
5110-39-18N	M39x3	NO-GO
5110-40-18N	M40x3	NO-GO
5110-42-18N	M42x3	NO-GO
5110-45-18N	M45x3	NO-GO
5110-48-18N	M48x3	NO-GO
5110-50-18N	M50x3	NO-GO
5110-52-18N	M52x3	NO-GO
5110-55-18N	M55x3	NO-GO
5110-58-18N	M58x3	NO-GO
5110-60-18N	M60x3	NO-GO
5110-62-18N	M62x3	NO-GO
5110-65-18N	M65x3	NO-GO
5110-68-18N	M68x3	NO-GO
5110-70-18N	M70x3	NO-GO
5110-72-18N	M72x3	NO-GO
5110-75-18N	M75x3	NO-GO
5110-78-18N	M78x3	NO-GO
5110-80-18N	M80x3	NO-GO
5110-82-18N	M82x3	NO-GO
5110-85-18N	M85x3	NO-GO
5110-88-18N	M88x3	NO-GO
5110-90-18N	M90x3	NO-GO
5110-92-18N	M92x3	NO-GO
5110-95-18N	M95x3	NO-GO
5110-98-18N	M98x3	NO-GO
5110-100-18N	M100x3	NO-GO

Precision feeler gauge

- Blades made from hardened spring steel
- Conical shaped blades in 100mm length
- Nickel plated handle with lock nut
- Packed in plastic bag



Art No.	Blades	Range	Content	Barcode
260-2485	8	0.05-0.50mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50mm	6971570712485
260-2492	13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00mm	6971570712492
260-2508	20	0.05-1.00mm	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, 1.00mm	6971570712508

Precision feeler gauge

- Blades made from brass anti-magnetic
- Conical shaped blades in 100mm length
- With lock nut
- Packed in plastic bag



Art No.	Blades	Range	Content	Barcode
260-2454	8	0.05-0.50mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50mm	6971570712454
260-2461	13	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00mm	6971570712461
260-2478	20	0.05-1.00mm	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, 1.00mm	6971570712478

Thickness Gauge Foil

- Made in Germany
- According to DIN2275/T3
- Carbon Steel
- Tape width 12.7mm
- Tape length 5m
- Size > 0.08mm engraved on tapes
- Square plastic case



Art No.	Size	Accuracy error	Barcode
5129-005	0.005mm	-	6972727957797
5129-001	0.01mm	-	6972727957803
5129-002	0.02mm	-	6972727958404
5129-003	0.03mm	0.003mm	6972727958411
5129-004	0.04mm	0.003mm	6972727958428
5129-005	0.05mm	0.003mm	6972727958435
5129-006	0.06mm	0.003mm	6972727958442
5129-007	0.07mm	0.004mm	6972727958459
5129-008	0.08mm	0.004mm	6972727958466
5129-009	0.09mm	0.004mm	6972727958473
5129-010	0.10mm	0.004mm	6972727957179
5129-012	0.12mm	0.004mm	6972727957810
5129-015	0.15mm	0.005mm	6972727958480
5129-018	0.18mm	0.005mm	6972727958497
5129-020	0.20mm	0.006mm	6972727958503
5129-025	0.25mm	0.006mm	6972727958510
5129-030	0.30mm	0.007mm	6972727958527
5129-035	0.35mm	0.007mm	6972727958534
5129-040	0.40mm	0.008mm	6972727958541
5129-045	0.45mm	0.008mm	6972727958558
5129-050	0.50mm	0.009mm	6972727958565
5129-055	0.55mm	0.009mm	6972727958572
5129-060	0.60mm	0.009mm	6972727958589
5129-065	0.65mm	0.009mm	6972727958596
5129-070	0.70mm	0.012mm	6972727958602
5129-075	0.75mm	0.012mm	6972727958619
5129-080	0.80mm	0.013mm	6972727958626
5129-085	0.85mm	0.013mm	6972727958633
5129-090	0.90mm	0.014mm	6972727958640
5129-095	0.95mm	0.014mm	6972727958657
5129-100	1.00mm	0.016mm	6972727957827

Feeler gauge

- For automotive and engine industry, used shims to accurately set spacing
- Made of spring steel
- Length 5m, width 12.7mm
- Plastic box



Art No.	Thickness	Accuracy error	Barcode
5122-001	0.01mm	0.004mm	6972727951597
5122-002	0.02mm	0.004mm	6972727951603
5122-003	0.03mm	0.004mm	6972727951610
5122-004	0.04mm	0.004mm	6972727951627
5122-005	0.05mm	0.004mm	6972727951634
5122-006	0.06mm	0.004mm	6972727951641
5122-008	0.08mm	0.005mm	6972727951658
5122-010	0.10mm	0.005mm	6972727951665
5122-012	0.12mm	0.005mm	6972727951672
5122-013	0.13mm	0.005mm	6972727951689
5122-014	0.14mm	0.006mm	6972727951696
5122-015	0.15mm	0.006mm	6972727951702
5122-016	0.16mm	0.007mm	6972727951719
5122-018	0.18mm	0.007mm	6972727951726
5122-020	0.20mm	0.008mm	6972727951733
5122-022	0.22mm	0.008mm	6972727951740
5122-025	0.25mm	0.009mm	6972727951757
5122-030	0.30mm	0.009mm	6972727951764
5122-035	0.35mm	0.011mm	6972727951771
5122-040	0.40mm	0.012mm	6972727951788
5122-050	0.50mm	0.014mm	6972727951795
5122-060	0.60mm	0.014mm	6972727951801

Holder for feeler gauge tape

- Made in Germany
- Holder for feeler gauge tape
- Size:125x17mm

Art No.	Barcode
WP-5129-10	6972727958664



Taper gauge

- For quick measurement of gap width
- Made of stainless steel



Art No.	Range	Reading	Accuracy error	Barcode
2601-06A	0.4-6mm	0.05mm	±0.04mm	6972727950545
2601-10A	0.5-10mm	0.05mm	±0.07mm	6972727950552
2601-15A	1-15mm	0.1mm	±0.08mm	6972727950569

Taper cone cylinder gauge

- Made of special steel, hardened and fine ground
- Knurled handle (black oxide), made of aluminium
- Matt chrome finish



Art No.	Range	Reading	Barcode
2601-06	1-6.5mm	0.1mm	6972727950576
2601-15	3-15mm	0.1mm	6972727950583
2601-30	15-30mm	0.1mm	6972727950590
2601-45	30-45mm	0.1mm	6972727950606

Taper gauge

- For quick measurement of gap width, slot width, hole diameter...
- Made of stainless steel
- Front: metric graduation, Back: inch graduation



Art No.	Range	Reading	Accuracy error	Barcode
2601-15B	1-15mm	0.1mm	±0.1mm	6972727950699
2601-30B	15-30mm	0.1mm	±0.1mm	6972727950705
2601-45B	30-45mm	0.1mm	±0.1mm	6972727950712
2601-60B	45-60mm	0.1mm	±0.1mm	6972727950729

Radius gauge



- Concave and convex shaped blades
- Made of mild steel
- Packed in plastic bag

Art No.	Blades	Range	Content	Barcode
260-2584	17	R1-7mm	1/ 1.25 / 1.5 / 1.75 / 2.0 / 2.25 / 2.5 / 2.75 / 3.0 / 3.5 / 4.0 / 4.5 / 5 / 5.5 / 6.0 / 6.5 / 7.0	6971570712584
260-2591	16	R7.5-15mm	7.5 / 8 / 8.5 / 9 / 9.5 / 10 / 10.5 / 11 / 11.5 / 12 / 12.5 / 13 / 13.5 / 14 / 14.5 / 15	6971570712591
260-2607	15	R15.5-25mm	15.5 / 16 / 16.5 / 17 / 17.5 / 18 / 18.5 / 19 / 19.5 / 20 / 21 / 22 / 23 / 24 / 25	6971570712607

Screw pitch gauge



- For checking the pitch of screw thread
- Blades made from hardened spring steel
- Packed in plastic bag

Art No.	Blades	Range	Content	Screw type	Barcode
260-2539	6	8-28TPI	8, 10, 11, 14, 19, 28TPI	GAZ 55°	6971570712539
260-2522	24	0.25-6.00mm	0.25, 0.30, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm	metr. 60°	6971570712522
260-2546	28	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	Whitw.55°	6971570712546
260-2553	30	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	Whitw.55°	6971570712553
260-2560	52	0.25-6.00 / 4-62TPI	(260-2522) + (260-2546)	metr. 60°+ Whitw.55°	6971570712560
260-2577	58	0.25-6.00 / 4-62 / 8-28TPI	(260-2522) + (260-2546) + (260-2539)	metr. 60°+ Whitw.55°+GAZ 55°	6971570712577
260-2515	12	2-20mm	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	30°ACME	6971570712515

Digital welding gauge

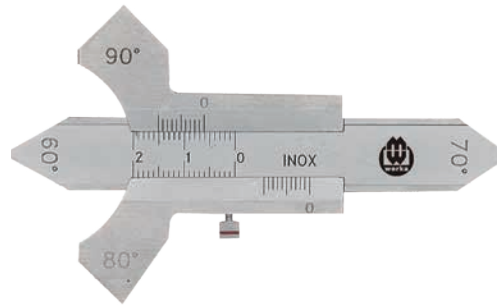
- Made of stainless steel
- Suitable to inspect flat welded seams and corners
- For angle 60°, 70°, 80°, 90°
- ON/OFF, mm/inch conversion, ZERO setting at any position



Art No.	Range	Reading	Accuracy error	Barcode
269-120	0-20mm	0.01mm	±0.1mm	6972727950804

Welding gauge

- Made of stainless steel
- Suitable to inspect flat welded seams and corners
- For angle 60°, 70°, 80°, 90°
- Satin chromed scale



Art No.	Range	Reading	Accuracy error	Barcode
269-020	0-20mm	0.1mm	±0.3mm	6972727950798

Fillet welding gauge

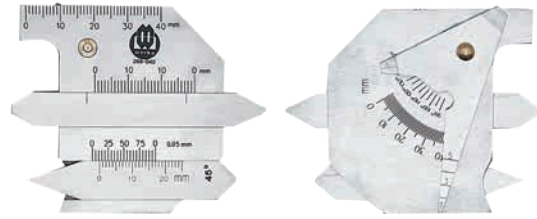
- Made of stainless steel
- Suitable to inspect concave and convex weld size



Art No.	Range	Reading	Barcode
269-025	3.2-25.4mm/ 1/8"-1"	3.2mm(1/8"), 4.8mm(3/16"), 6.4mm(1/4"), 7.9mm(5/16"), 9.5mm(3/8"), 11.1mm(7/16"), 12.7mm(1/2"), 15.9mm(5/8"), 19.1mm(3/4"), 22.2mm(7/8"), 25.4mm(1")	6972727950675

Welding gauge

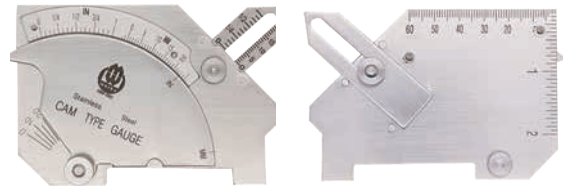
- Made of stainless steel
- Suitable to inspect flat welded seams and corners



Art No.	Range	Reading	Barcode
269-040	0-40mm	1mm	6972727950651

Welding gauge

- Made of stainless steel
- Suitable to inspect flat welded seams and corners



Art No.	Range	Reading	Barcode
269-060	0-60mm	1mm	6972727950668

Pipe welding gauge

- Made of stainless steel
- Suitable to inspect height of flat welded seams. Such as bevel on end preparation, pipe wall thickness, internal misalignment, fit-up gap, crown height, fillet weld length and height, distance between two marking lines of socket weld

Art No.	Barcode
269-01	6972727950682



MARKING GAUGE

MARKING GAUGE

•

MARKING CALIPER

•

BEAM TRAMMEL

•

SURFACE GAUGE

•

DIVIDERS

•

SCRIBER

•

•

•



Marking Gauge

- Flat type, hardened edge
- With locking screw
- Satin chrome plated
- Packed in cardbox



MADE OF CARBON STEEL

Art No.	Size	Reading	Barcode
250-1600	0-200mm	0.1mm	6971570711600
250-1617	0-250mm	0.1mm	6971570711617
250-1624	0-300mm	0.1mm	6971570711624

MADE OF STAINLESS STEEL

Art No.	Size	Reading	Barcode
250-1631	0-200mm	0.1mm	6971570711631
250-1648	0-250mm	0.1mm	6971570711648
250-1655	0-300mm	0.1mm	6971570711655

Digital marking Gauge



- Length marking and measuring
- Angle marking and measuring
- With locking screw
- Aluminum beam, black anodized surface
- Packed in cardbox



Art No.	Range	Reading For Length	Reading For Angle	Barcode
250-1747	0-200mm/0-8"	0.01mm	0.05°	6971570711747
250-1754	0-250mm/0-10"	0.01mm	0.05°	6971570711754
250-1761	0-300mm/0-12"	0.01mm	0.05°	6971570711761

Marking caliper

- Made of stainless steel
- Satin chromed reading parts
- With locking screw, guide roll
- Carbide scriber
- Supplied with one spare carbide scriber
- Packed in soft pouch



Art No.	Size	Reading	Barcode
250-1211	0-200mm/0-8"	0.1mm/1/128"	6971570711211
250-1228	0-400mm/0-16"	0.1mm/1/128"	6971570711228

Art No.	Barcode	
WP-251235	6971570711235	Replaceable scriber for Marking caliper

Beam trammel

- Satin chromed
- Hardened stainless steel beam
- Hardened steel interchangeable scribers
- Packed in wooden box



Art No.	Size	Reading	Barcode
250-1242	0-300mm	0.1mm	6971570711242
250-1259	0-500mm	0.1mm	6971570711259

Art No.	Barcode	
WP-251266	6971570711266	Replaceable scriber for Beam trammel

Marking caliper

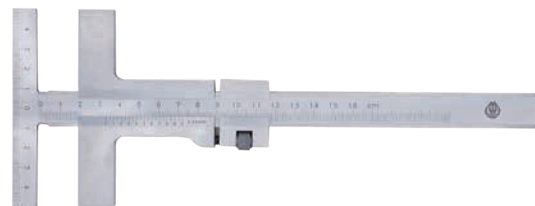
- Made of stainless steel
- With locking screw
- Hardened tips
- Packed wooden box



Art No.	Size	Reading	Length Of Jaw	Barcode
250-1709	0-150mm	0.1mm	40	6971570711709
250-1716	0-200mm	0.1mm	40	6971570711716
250-1723	0-250mm	0.1mm	40	6971570711723
250-1730	0-300mm	0.1mm	40	6971570711730

Marking caliper

- Made of stainless steel
- T-shaped beam
- With fine adjustment
- Marking edge hardened
- Packed in wooden box



Art No.	Size	Reading	Length Of Base	Barcode
250-1662	0-160mm	0.05mm	135	6971570711662
250-1679	0-250mm	0.05mm	135	6971570711679
250-1686	0-300mm	0.05mm	160	6971570711686
250-1693	0-400mm	0.05mm	160	6971570711693

Center marking gauge



- Made of stainless steel
- Satin chrome plated
- Easy to find the center point of a circle
- For marking vertical lines against straight side on a plate
- For marking 45° acute angle
- Have the function of workshop squares DIN875/2
- With graduation on the beam
- Packed in cardbox



Art No.	Size	For Shafts Up To Dia \varnothing	Barcode
250-1556	100x70mm	90mm	6971570711556
250-1563	150x130mm	190mm	6971570711563
250-1570	200x150mm	220mm	6971570711570
250-1587	250x160mm	230mm	6971570711587
250-1594	300x180mm	280mm	6971570711594

Surface gauge

- Round and chromed beam $\varnothing 10\text{mm}$
- Scriber $\varnothing 4\text{mm}$
- Fine ground steel prismatic base 84x65x27mm
- With fine adjustment
- Supplied with two beams
- Packed in cardbox



Art No.	Size	Barcode
254-1778	175mm	6971570711778
254-1785	300mm	6971570711785
254-1792	455mm	6971570711792

Dividers

- Made of forged steel, rivet hinge
- hardened points
- with setting wing
- packed in plastic bag

Art No.	Size	Barcode
257-2003	150mm	6971570712003
257-2010	200mm	6971570712010
257-2027	300mm	6971570712027



Inside caliper

- Made of forged steel, rivet hinge
- Fine polished
- Packed in plastic bag

Art No.	Size	Barcode
257-1853	150mm	6971570711853
257-1860	200mm	6971570711860
257-1877	300mm	6971570711877



Outside caliper

- Made of forged steel, rivet hinge
- Fine polished
- Packed in plastic bag

Art No.	Size	Barcode
257-1884	150mm	6971570711884
257-1891	200mm	6971570711891
257-1907	300mm	6971570711907



Spring dividers

- Made of forged steel
- Hardened points
- Quick acting set screw
- Packed in plastic bag

Art No.	Size	Barcode
257-1914	150mm	6971570711914
257-1921	200mm	6971570711921
257-1938	300mm	6971570711938



Spring inside calipers

- Made of forged steel
- Hardened points
- Quick acting set screw
- Packed in plastic bag

Art No.	Size	Barcode
257-1945	150mm	6971570711945
257-1952	200mm	6971570711952
257-1969	300mm	6971570711969



Spring outside calipers

- Made of forged steel
- Hardened points
- Quick acting set screw
- Packed in plastic bag

Art No.	Size	Barcode
257-1976	150mm	6971570711976
257-1983	200mm	6971570711983
257-1990	300mm	6971570711990



Scriber

- Hardened steel
- Blackening surface
- Knurled handle
- Packed in plastic bag



Art No.	Size	Note	Barcode
254-1808	175mm	one straight end	6971570711808
254-1815	250mm	two ends	6971570711815

Scriber

- With knurled grip, zinc-plated
- Needles black finished, screwed in one side bent for 90°, other side straight
- Packed in plastic bag



Art No.	Size	Barcode
254-1822	250mm	6971570711822

Scriber with carbide tip

- Carbide points, plastic handle
- Needles chrome-plated
- Packed in plastic bag



Art No.	Size	Barcode
254-1846	160mm	6971570711846

Scriber with carbide tip

- Carbide points
- Hexagonal body, nickel plated
- Pocket clip
- Packed in plastic bag



Art No.	Size	Barcode
254-1839	150mm	6971570711839

UNIVERSAL TOOL

STAINLESS STEEL RULER

•

POCKET MEASURING TAPE

•

LED FLASHLIGHT

•

UTILITY KNIFE

•

TORQUE WRENCH

•

DOUBLE FUNCTION RATCHET

•

•

•



Stainless steel ruler

Flexible type.
According to EC II .Reading from left to right.

- Stainless spring steel
- Etched graduation for a clear reading
- Packed in plastic box



Art No.	Size	Section	Barcode
241-0528	150mm	13x0.5mm	6971570710528
241-0535	200mm	13x0.5mm	6971570710535
241-0542	300mm	13x0.5mm	6971570710542
241-0559	500mm	20x0.5mm	6971570710559
241-0566	1000mm	20x0.5mm	6971570710566

Stainless steel ruler

Semi rigid type.
According to EC II .Reading from left to right.

- Stainless spring steel
- Etched graduation for a clear reading
- Packed in plastic box



Art No.	Size	Section	Barcode
241-6889	300mm	30x1mm	6971570716889
241-6896	500mm	30x1mm	6971570716896
241-6902	1000mm	30x1mm	6971570716902
241-6926	300mm/12"	25x1mm	6971570716926
241-6933	600mm/24"	25x1mm	6971570716933
241-6940	1000mm/39"	25x1mm	6971570716940

Stainless steel ruler

Flexible type.
According to EC II .Reading from left to right.

- Stainless spring steel
- Etched graduation for a clear reading
- Packed in plastic box



Art No.	Size	Section	Barcode
241-7367	150mm	13x0.5mm	6971570717367
241-7374	6"	13x0.5mm	6971570717374

Pocket measuring tape

According to EC II .

- Ergonomic, robust plastic housing made of ABS
- With belt loop clip
- Nylon coating blade for long life
- Self-locking system; the tape is automatically retracted when the stop button is activated



Art No.	Size	Width Of Tape	Barcode
241-7596	3m	16mm	6971570717596
241-7602	5m	19mm	6971570717602

Utility knife

- Sturdy zinc alloy body
- 4pcs spare replaceable blades
- Packed in PE plastic bag



Art. No	Size	Barcode
294-7626	168x36x25mm	6971570717626

LED Flashlight

- Metal body, black oxide
- lighting function brightness 100% - 75% - 50% - flicker
- power supply AAx3
- single black canvas bag packaging
- packed in colourbox



Art. No	Size	Barcode
294-8968	145x40mm	6971570718968

Digital Torque Wrench

According to DIN EN ISO6789

- Bidirectional use available
- Chromed tube, hardened
- Digital display, easy to read
- With a fine tuning device to adjust the torque precisely
- Unit selection: N.m, Ft-lb, In-lb switchable
- Ergonomically designed handle
- Incl. WERKA workshop's test certificate
- High quality plastic case



Fixed head

Art. No	Metric	Adjustable Min. unit	Shank	Total Length	Barcode
9210-3810	10~100 N.m	0.5 N.m	3/8"	460mm	6972727953218
9210-1220	20~200 N.m	0.5 N.m	1/2"	568mm	6972727953225
9210-1230	30~340 N.m	0.5 N.m	1/2"	650mm	6972727953232

Torque Wrench with a Readable Window

According to DIN EN ISO6789

Option: Fixed head and changeable head

- Bidirectional use available
- Chromed tube, hardened
- In/mm graduation
- With a fine tuning device to adjust the torque precisely
- A window for easy reading
- Incl. WERKA workshop's test certificate
- High quality plastic case



Fixed head

Art. No	Metric	Adjustable Min. unit	Shank	Total Length	Barcode
9202-1405	5~25 N.m	0.1 N.m	1/4"	323mm	6972727953133
9202-3820	20~100 N.m	0.5 N.m	3/8"	400mm	6972727953140
9202-1240	40~200 N.m	0.5 N.m	1/2"	517mm	6972727953157
9202-1260	60~340 N.m	1 N.m	1/2"	620mm	6972727953164

Changeable head

Art. No	Metric	Adjustable Min. unit	Shank	Total Length	Barcode
9203-1210	10~50 N.m	0.5 N.m	9x12mm	356mm	6972727953171
9203-1220	20~100 N.m	0.5 N.m	9x12mm	356mm	6972727953188
9203-1840	40~200 N.m	0.5 N.m	14x18mm	472mm	6972727953195
9203-1860	60~340 N.m	1 N.m	14x18mm	572mm	6972727953201

Torque Wrench with Ratchet

According to DIN EN ISO6789

Option: Fixed head and changeable head

- Bidirectional use available
- With quick release function to switch easily
- Chromed tube, hardened
- In/mm graduation
- With a fine tuning device to adjust the torque precisely
- Ergonomically designed handle
- Incl. WERKA workshop's test certificate
- High quality plastic case



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Fixed head

Art. No	Metric	Adjustable Min. unit	Shank	Total Length	Barcode
9200-1405	5~25 N.m	0.1 N.m	1/4"	245mm	6972727953058
9200-3820	20~100 N.m	0.5 N.m	3/8"	410mm	6972727953065
9200-1240	40~200 N.m	1 N.m	1/2"	520mm	6972727953072
9200-1260	60~340 N.m	2 N.m	1/2"	610mm	6972727953089

Changeable head

Art. No	Metric	Adjustable Min. unit	Shank	Total Length	Barcode
9201-1205	5~25 N.m	0.1 N.m	9x12mm	230mm	6972727953096
9201-1220	20~100 N.m	0.5 N.m	9x12mm	370mm	6972727953102
9201-1840	40~200 N.m	1 N.m	14x18mm	487mm	6972727953119
9201-1860	60~340 N.m	2 N.m	14x18mm	577mm	6972727953126



TORQUE WRENCH

Double function ratchet

New unique design, combines standard, and rotation function

1. Standard function
For use in non limited spaces, levering of ratchet turns square.
2. Rotation function
Opening function for handle (turning back the handle) changes ratchet to rotation function.
Turning the handle moves the square; no levering needed.

- 1) In rotation function the minimal needed turning angle is close to 0 degrees.
- 2) Because of easy opening and fixing function for the handle. Changing from normal function to rotating function is always possible, without losing the nut or screw. ONE HAND OPERATION.
- 3) Already opened screws can be turned off easily with the rotation function.
- 4) The new developed 2 components handle offers sensitive and ergonomic working style.
- 5) The changing between right / left turning usage will be done by square-section straight-through shank.
- 6) Overtops DIN and ANSI requirements in standard operation.



3. DRIVES
1/2" – 3/8" – 1/4"



HANDLE FIXED
Normal ratchet function through levering

ROTATION FUNCTION; HANDLE TURNABLE
Ratcheting function by turning the handle (no levering)

DOUBE FUNCTION RATCHET		9220-9644	9220-9651	9220-9668
		6971570719644	6971570719651	6971570719668
Type/Size		1/4"	3/8"	1/2"
Total Length	cm	17.3	23.8	28.7
Height of head	mm	12.5	16.3	17.9
Width	mm	27	36	42
Weight	g	190	420	710
Length	cm	8.5	11.3	13.6
Diameter of handle	mm	26	31	38
Material handle	2 component handle PP as body and TPE as soft component			
Material body		CR-V	CR-V	CR-V
Hardness body	HRC	42-45	42-45	42-45
Hardness square	HRC	50 52	50 52	50 52
Number of teeth		60	60	60
Torque in looked function	Nm	78	245	646
Torgue DIN	Nm	62	202	512
Torque over DIN	%	126%	121%	126%
Torque in rotation function	Nm	8	20	25
Lifetime	Power	>50000	>50000	>50000
		30Nm	100Nm	128N





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