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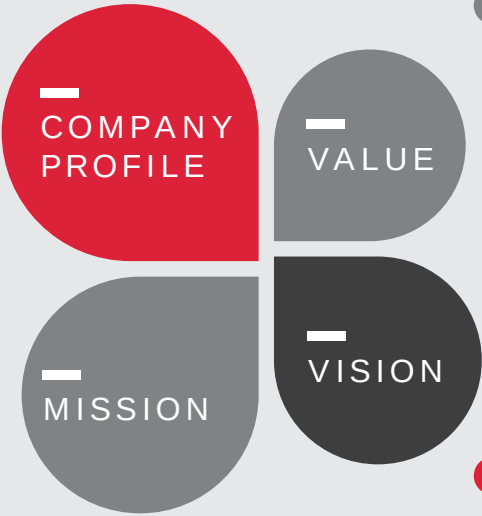
CATALOUGE - 231

Werka Co., Ltd

COMPANY PROFILE

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 leade

Excellent quality



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

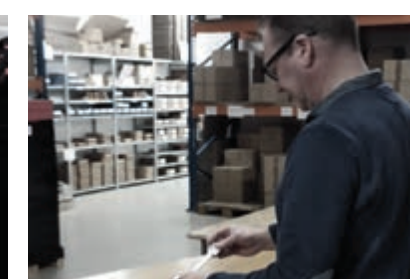
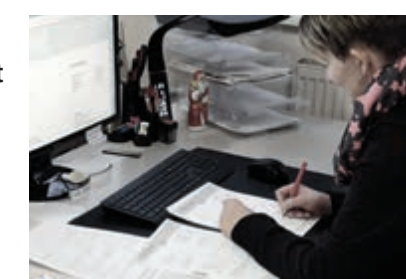
Dakks accreditation

DKD member certification

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Our AQRAT Lab is highly relevant to PTB Germany.



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Werka intelligent manufacturing base



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



• Jig Grinding Machine Workshop



• Test Lab

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Werka intelligent manufacturing base



• Makino High Speed Cnc



• Amada Surface Grinder

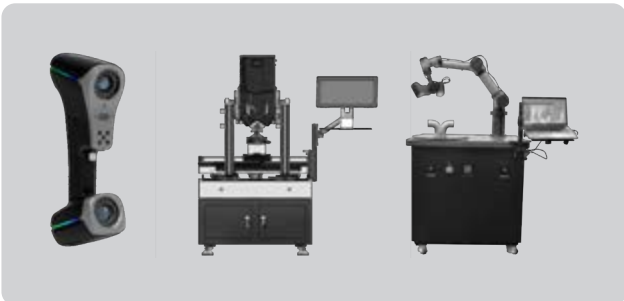


• Electro-Machining Workshop

 Excellent quality

Swiss technology gauges the future intelligently

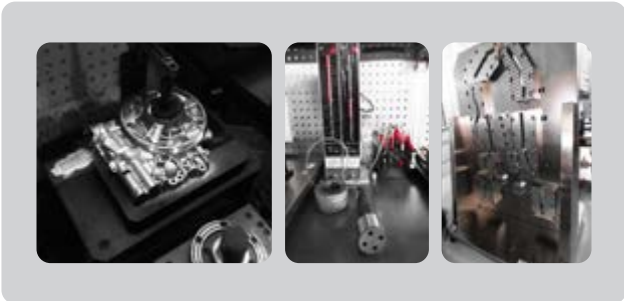
01 3D measurement



02 Semi-automatic And fully automatic measuring equipment



03 Special gauges



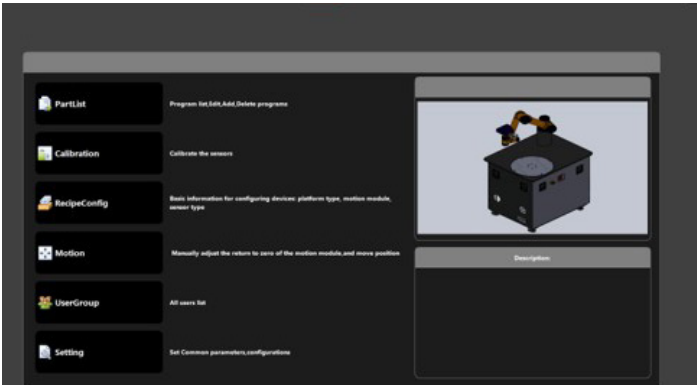
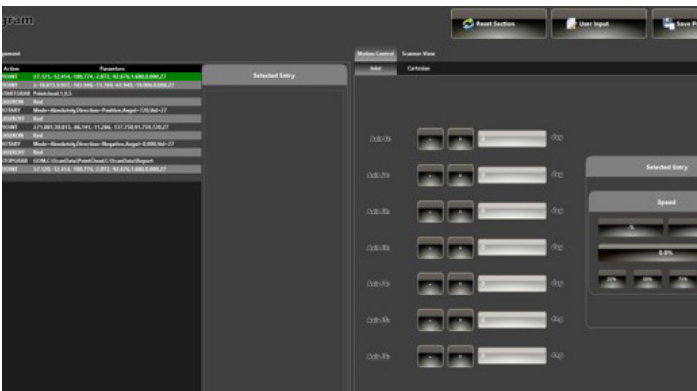
04 General measuring tools



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

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Swiss technology gauges the future intelligently

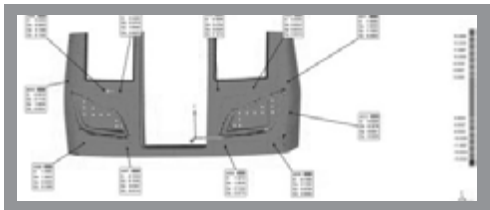


Werka, an intelligent on-line measuring professional.



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 Co.,Ltd





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EXPLANATION

In our catalogue you will find several pictograms beside the description



WERKA Premium



Patented Item



With Tol-Alarm
Function



Data output



WERKA Inspection
Certificate



LAB Inspection
Certificate



Wireless Transmission



Bluetooth®

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*ART NO.INDEX:266-302

CATALOGUE - 231

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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

•

•

•

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

A

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

A



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 m³	0.064 mm
	(Scanner only) 16.6 m³	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



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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

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

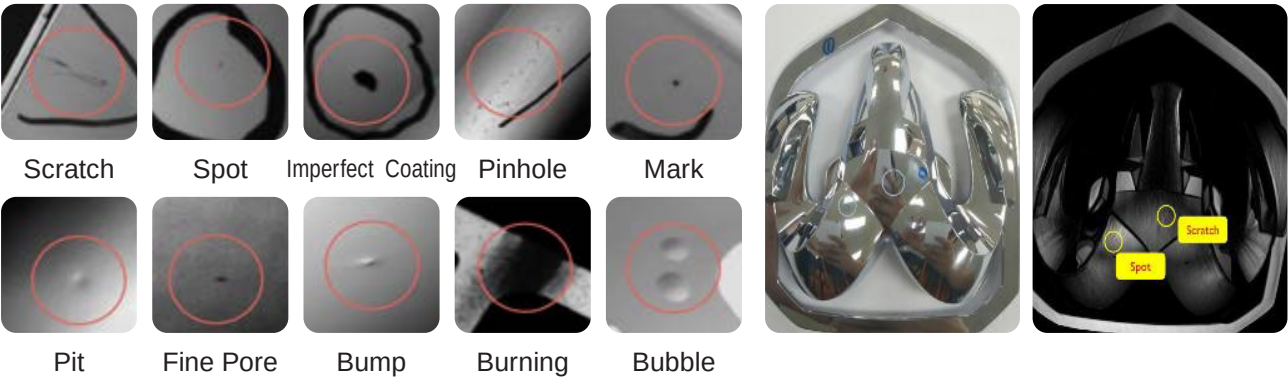
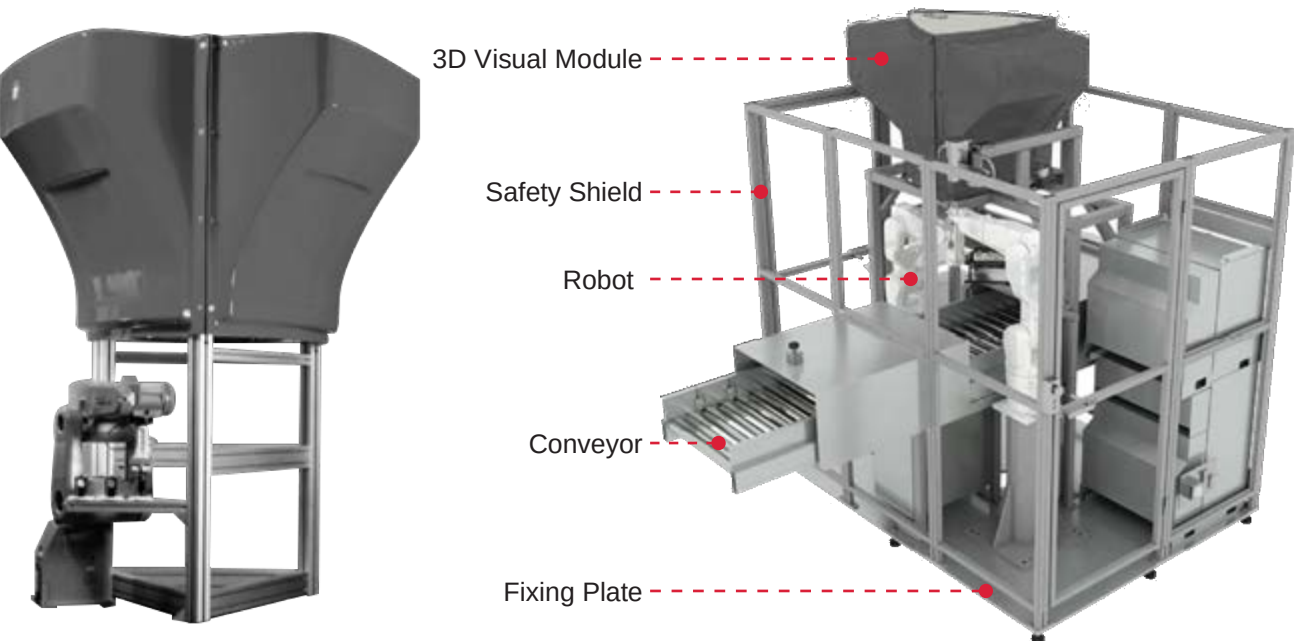
Desktop: Werka	
Size (mm)	800×300×90
Weight (Kg)	29
Desktop Diameter (mm)	200
Desktop Load (Kg)	36
Desktop Precision (°)	<0.1°
Rotate Speed	90°/s
X-axis Adjustable Range(mm)	275-550
Y-axis Adjustable Height(mm)	50-350
Rotational Axis Ajustable Angle (°)	-90° ~ +90°
IP Class	IP50
Operation Temperature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

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

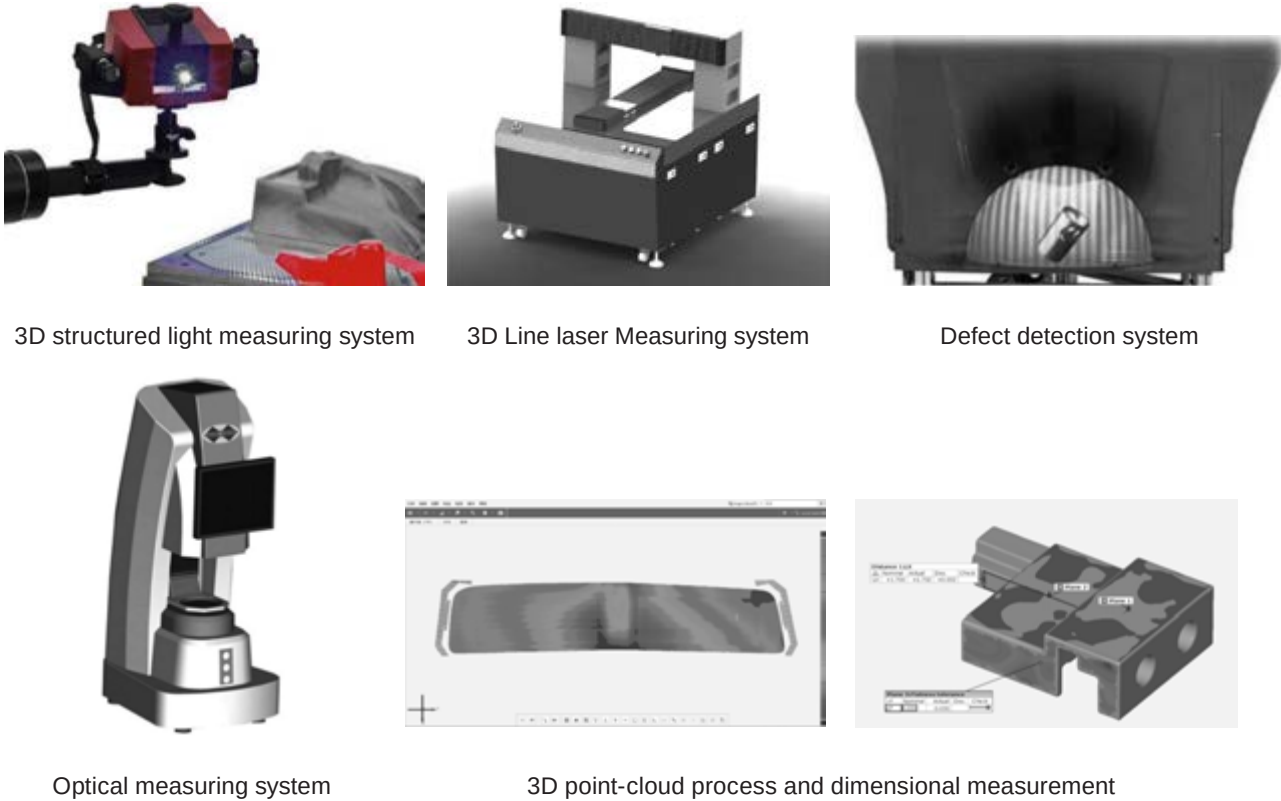
A

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



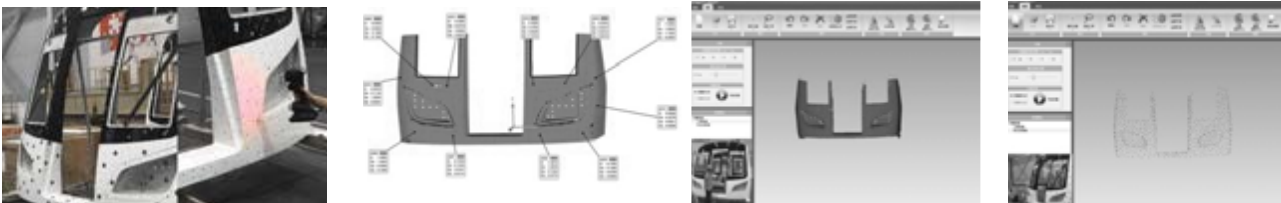
Open service platform

- 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



Application

- Locomotive Inspectionva



Application

- NEV Battery Tray Inspection

A



- Car Frtont 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

•

•

•

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

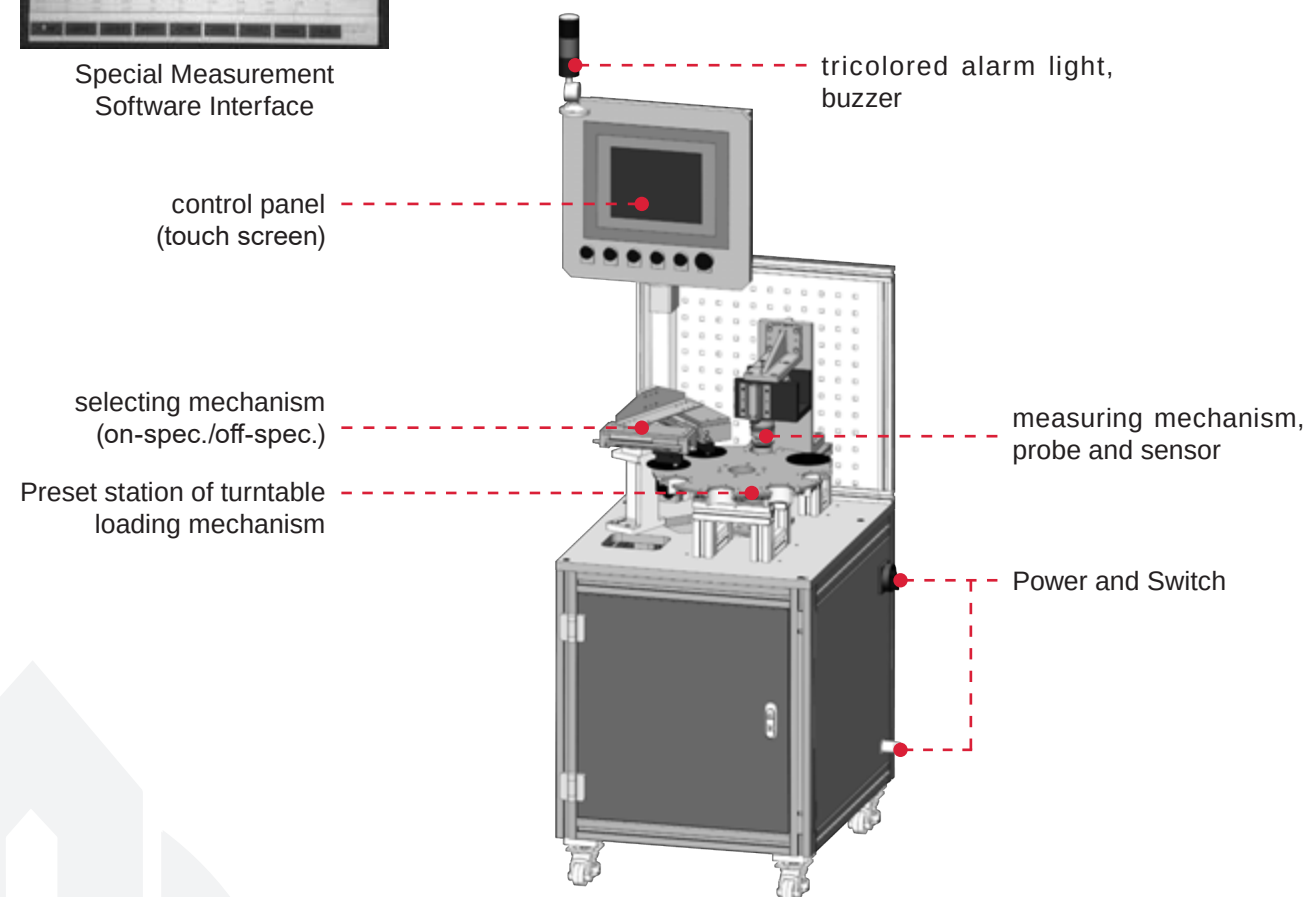
The detector can locate and clamp the object to be inspected automatically with reading gauges and functional gauges respectively driven by electric or pneumatic powered unit to carry out the detection.



Special Measurement Software Interface

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



Run-out gauge for wheel hub (customized)

Application:

- Run-out measurement of automobile wheel hub

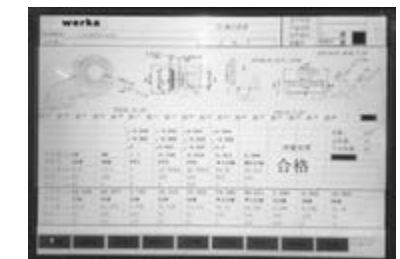
Gauges can achieve a V-shaped positioning via the trolleys and then the probes go further to contact the part to be measured through the guide in a way the run-out values can be seen on 4 dials at the same time(or sensors can be used to save data upon request).

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.

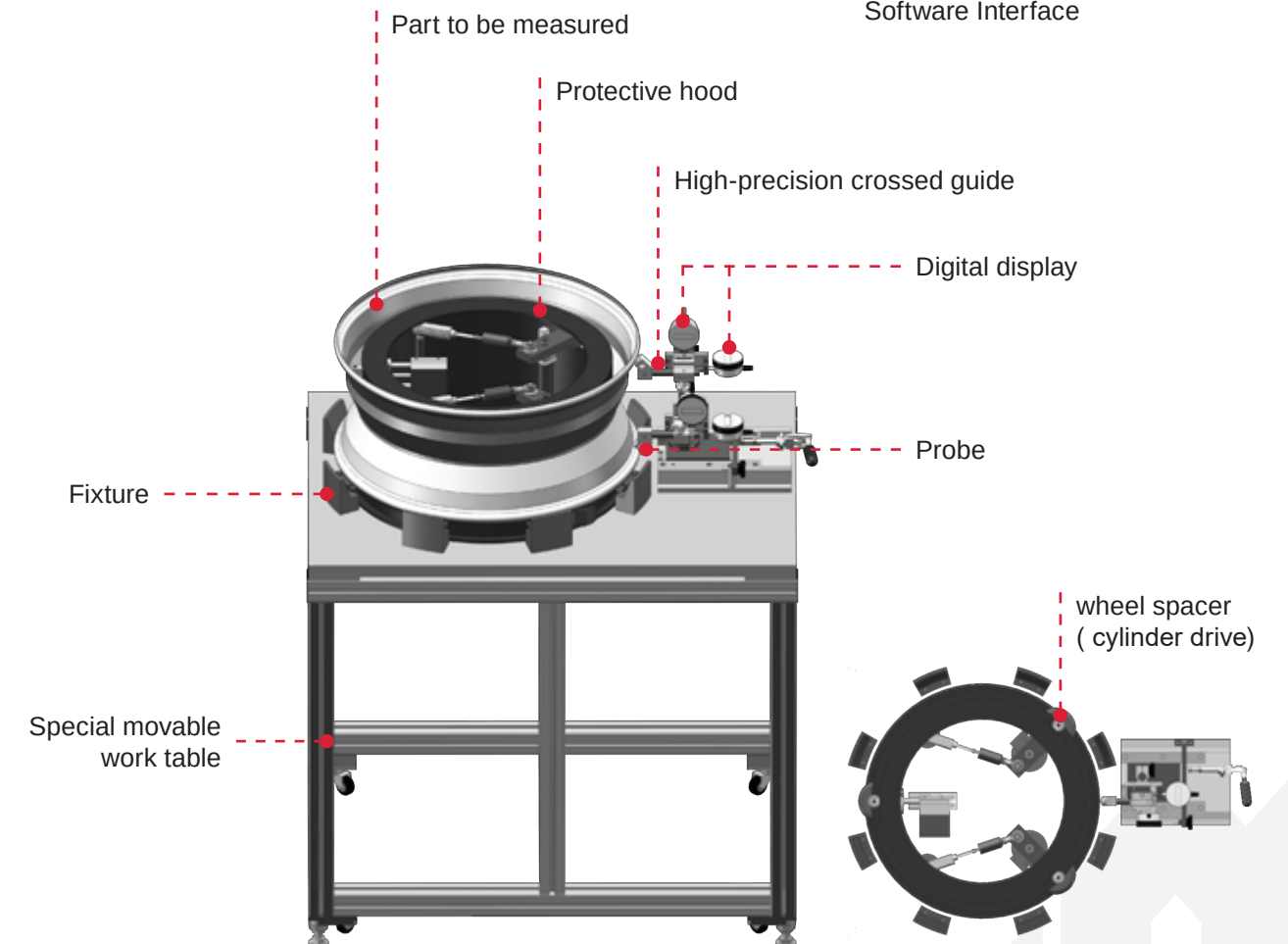
In addition, a pneumatic cylinder can be used for a quicker and easier operation.

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

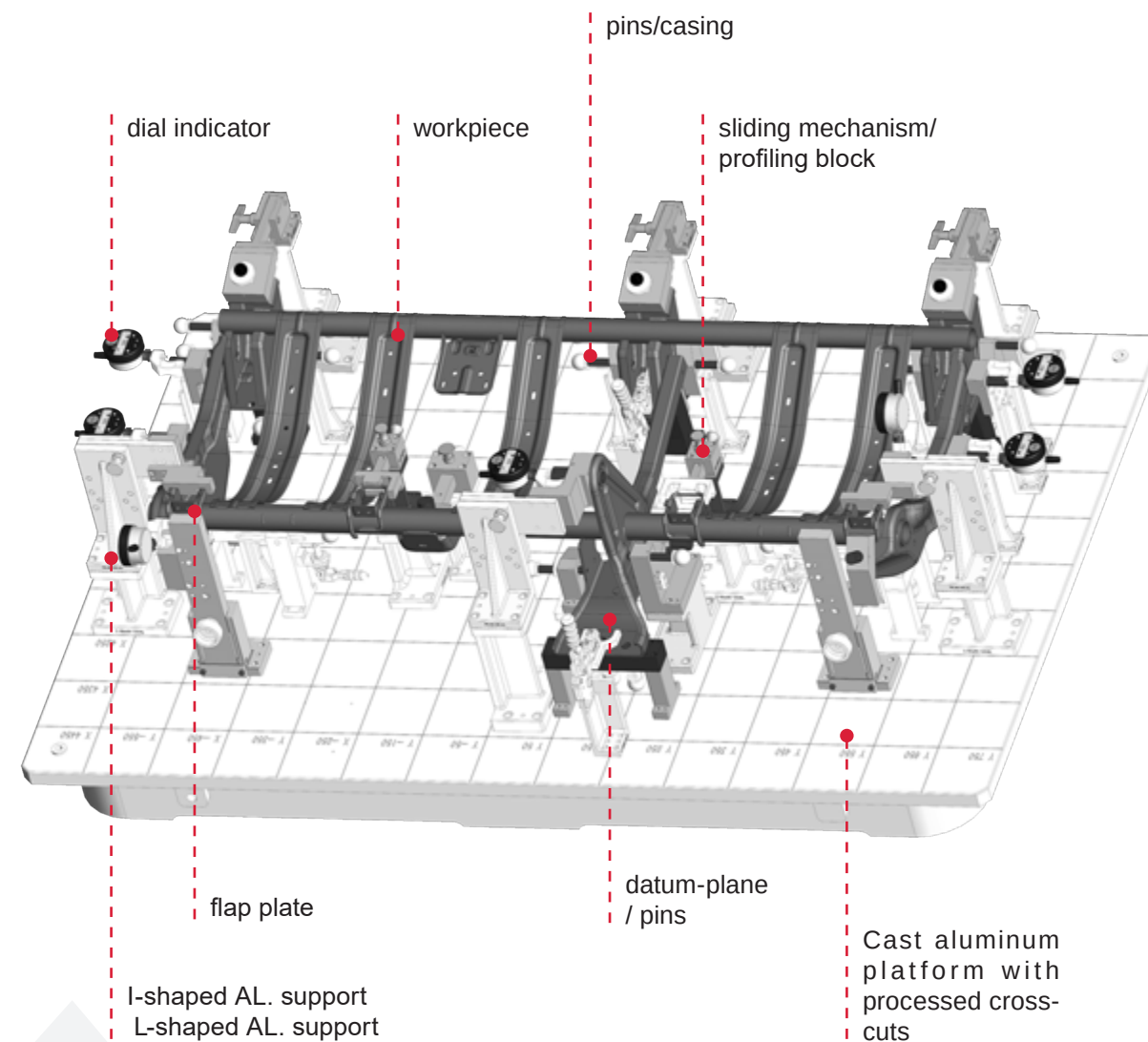


General seat gauge (customized)

Application:

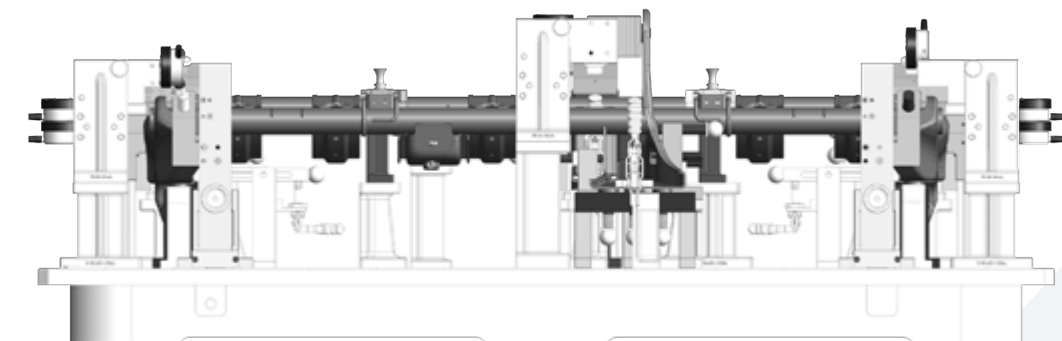
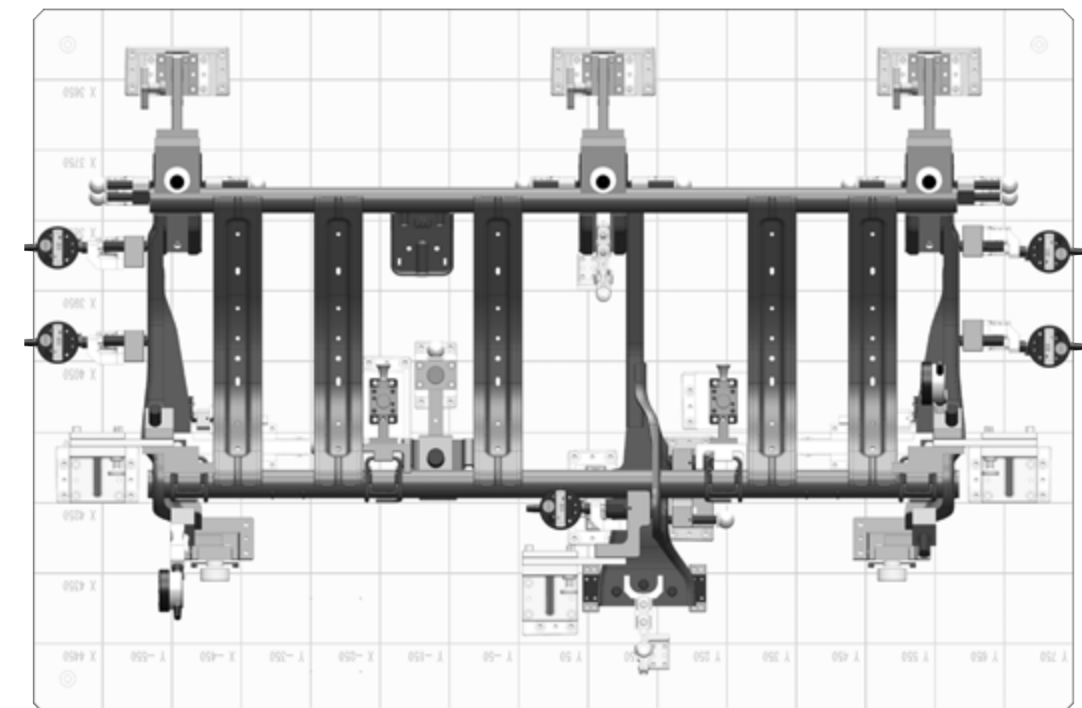
- Geometrical tolerance measurement of automobile metal parts
- Quick measurement on site to select on-spec. parts

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 > 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



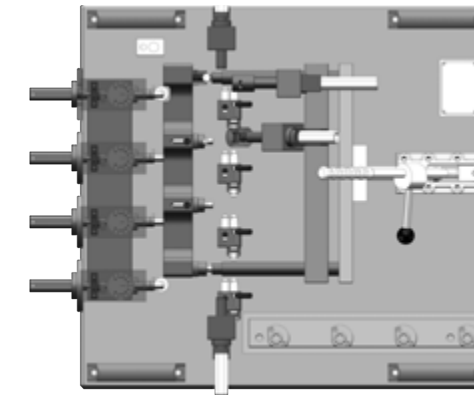
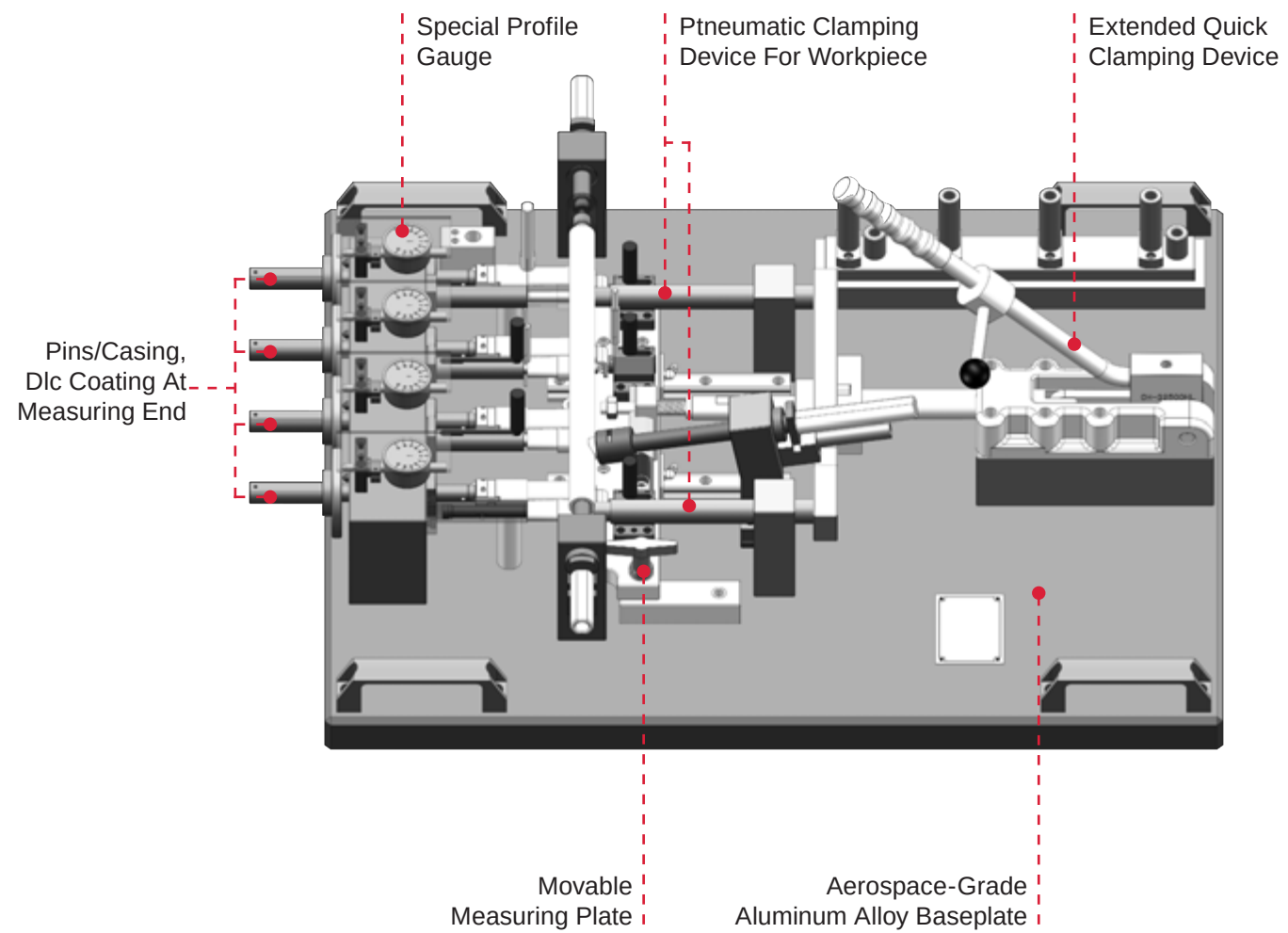
General gauge for high Pressure fuel rail (customized)

B

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



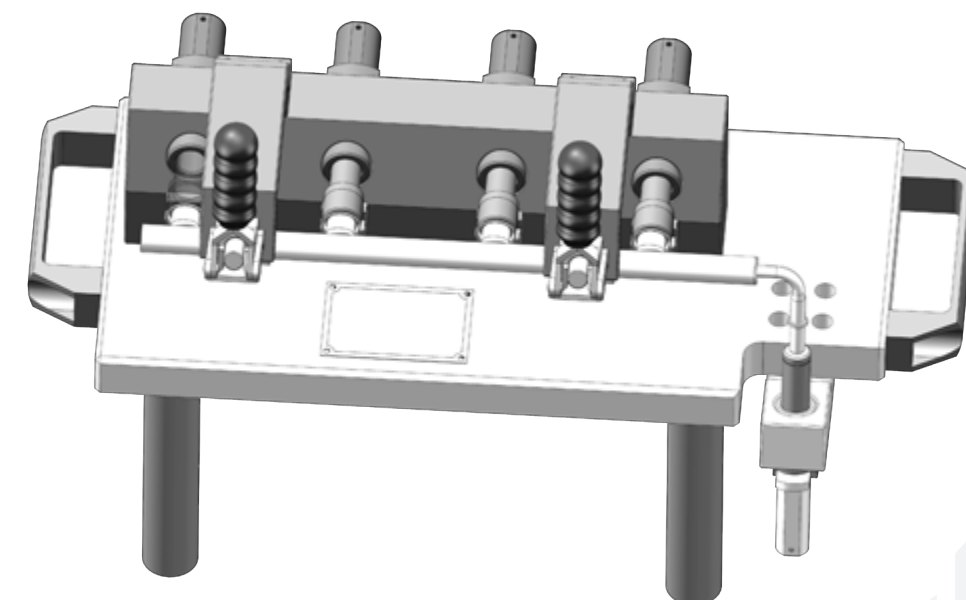
An Overall Bird's Eye View Of The Gauge

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

B

General gauge for low pressure fuel rail (customized)



Geometrical functional gauge (customized)

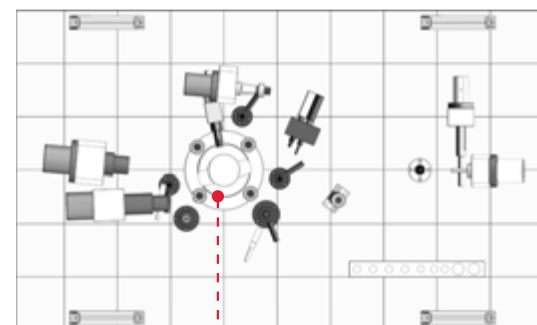
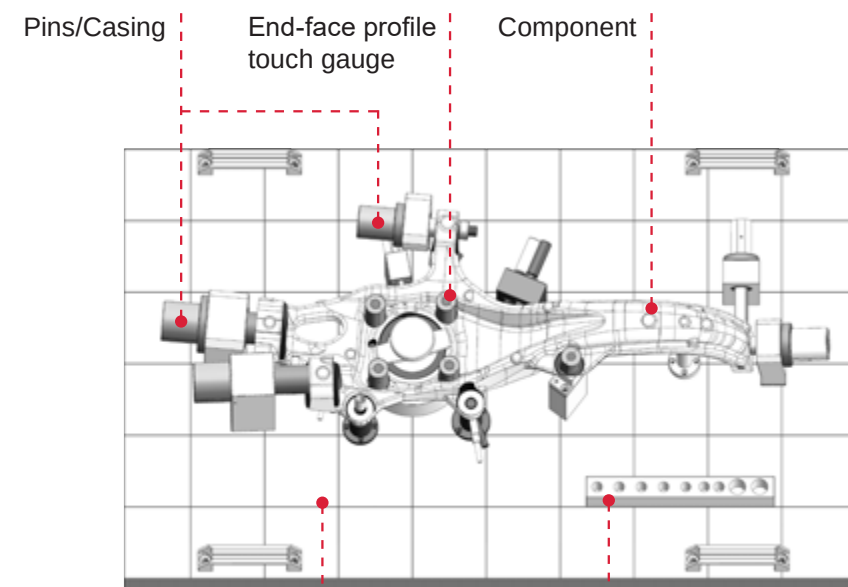
Application:

- 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



Gauge datum-plane/
alignment pins

General gauge for damper(customized)

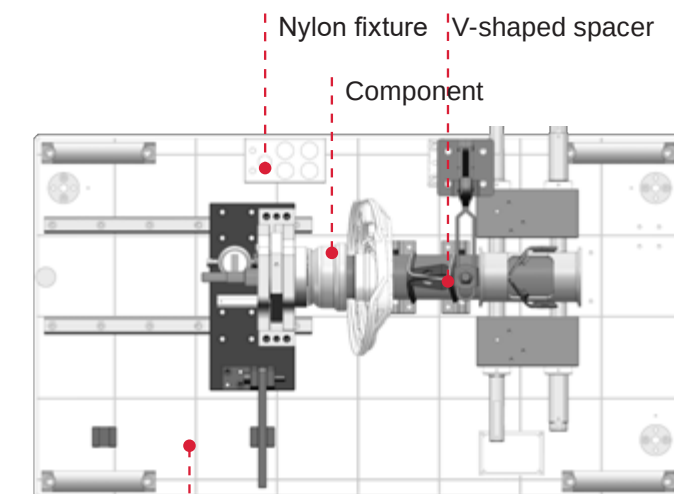
Application:

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

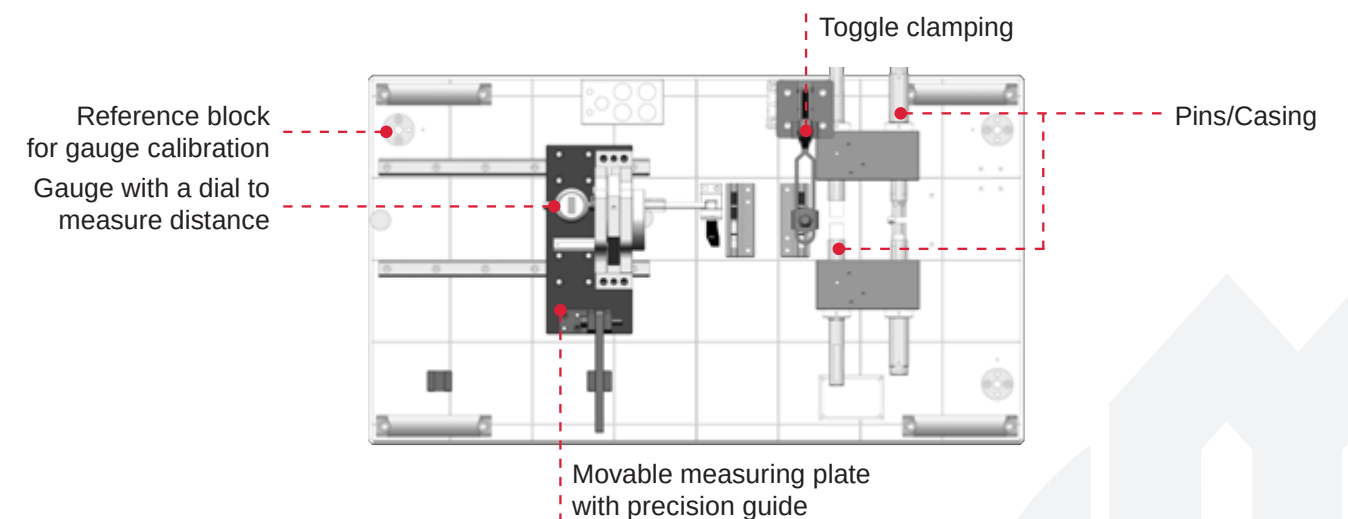
Geometrical functional Gauge to measure the position accuracy through pin mechanism, especially for mechanically processed holes, to measure the profile of end face through scribing bar/ touch gauge, and to measure distance between end faces/parallelism/perpendicularity through gauge with dials.

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



Gauge baseplate, 45#steel/Al. Alloy



Reference block
for gauge calibration
Gauge with a dial to
measure distance

Movable measuring plate
with precision guide

WIRELESS TRANSMISSION
built-in bluetooth module to allow wireless data transmission.



Ip67 digital caliper 0.001mm



Description

- Display up to 0.001mm,high accuate indication
- Made of stainless steel,Protection IP67
- 14mm Large display,clearer digit and its height up to 14mm
- Built-in bluetooth module to allow wireless data tranmission
- Auto power off,3V battery (CR2032)
- With stop crew
- Back with conversion table
- Delivered with an inspection report,
- Fancy plastic box
- ON/OFF,Reset at any position,mm/inch
- Data transmission

Art.No.	Range	Scale	Indication error	Standard	Barcode
2230-150W	0-150 mm	0.001mm	0.01 mm	DIN 862	6972727952471
2230-200W	0-200 mm	0.001mm	0.02 mm	DIN 862	6972727952488
2230-300W	0-300 mm	0.001mm	0.02 mm	DIN 862	6972727952495

Bluetooth digital caliper
(large display)



Description

- Made of stainless steel
- Large display,clearer digit and its height up to 14mm
- Built-in bluetooth module to allow wireless data transmission
- Auto power off
- With stop crew
- 3V battery (CR2032)
- Back with conversion table
- Delivered with an inspection report
- Fancy plastic box
- ON/OFF,Reset at any position
- mm/inch,Data transmission

Art.No.	Range	Scale	Indication error	Standard	Barcode
2229-150W	0-150 mm	0.01mm	0.02 mm	DIN 862	6974804579199
2229-200W	0-200 mm	0.01mm	0.03 mm	DIN 862	6974804579205
2229-300W	0-300 mm	0.01mm	0.03 mm	DIN 862	6974804579212

Digital indicator 0.01mm



Description

- Protection IP54
- 0-330°display rotation allowed
- Large display, clearer digit
- Built-in bluetooth module to allow wireless data transmission
- Auto power off
- 8h6 Stem 8h6
- 3V battery (CR2032)
- Delivered with an inspection report
- Fancy plastic box
- ON/OFF,Reset at any position
- mm/inch,Absolute/relative mode
- Preset,Data transmission



Art.No.	Range	Scale	Indication error	Repeatability	Barcode
4209-012W	0-12.7 mm	0.01mm	0.01 mm	0.01 mm	6974804579250
4209-025W	0-25.4 mm	0.01mm	0.01 mm	0.01 mm	6974804579267
4209-050W	0-50.8 mm	0.01mm	0.015 mm	0.01 mm	6974804579274

Digital indicator 0.001mm



Description

- Display up to 0.001mm,high accurate indication
- Protection IP54
- 0-330°display rotation allowed
- Large display, clearer digit
- Built-in bluetooth module to allow wireless data transmission
- Auto power off
- 8h6 Stem 8h6
- 3V battery (CR2032)
- Delivered with an inspection report
- Fancy plastic box
- ON/OFF,Reset at any position,mm/inch
- Absolute/relative mode, Preset,Data transmission



Art.No.	Range	Scale	Indication error	Repeatability	Barcode
4210-012W	0-12.7 mm	0.001mm	0.003 mm	0.001 mm	6974804579229
4210-025W	0-25.4 mm	0.001mm	0.003 mm	0.001 mm	6974804579236
4210-050W	0-50.8 mm	0.001mm	0.004 mm	0.001 mm	6974804579243

Digital test indicator



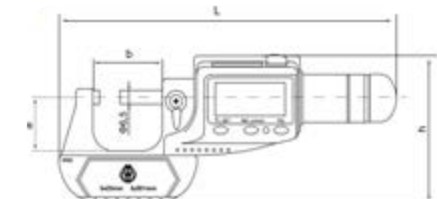
Description

- Protectioni IP65,Analog indication
- Built-in bluetooth module to allow wireless data transmission
- Auto power off,3V battery (CR2032)
- Delivered with an inspection report
- Fancy plastic box
- Reset,Mode,Data transmission



Art.No.	Range	Scale	Indication error	Repeatability	Barcode
4211-008W	0-0.8 mm	0.001mm	0.013 mm	0.003 mm	6974804579281

Digital micrometer



Description

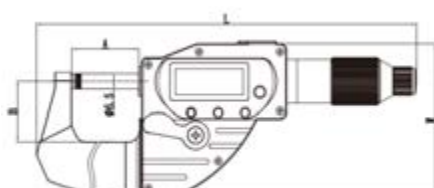
- Standard digital module
- Built-in bluetooth module to allow wireless data transmission
- Carbide measuring face
- Painted frame
- With insulation plate
- Locking mechanism,Auto power off
- 3V battery (CR2032)
- Delivered with a manual
- Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset,mm/inch
- Absolute/relative mode,Data transmission

Overall dimension(mm)

	L	a	b	h
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

Art. No.	Range	Scale	Indication error	Barcode
3202-25W	0-25 mm	0.001mm	0.003 mm	6974804579373
3202-50W	25-50 mm	0.001mm	0.003 mm	6974804579380
3202-75W	50-75 mm	0.001mm	0.004 mm	6974804579397
3202-100W	75-100 mm	0.001mm	0.004 mm	6974804579403
3202-125W	100-125 mm	0.001mm	0.005 mm	6974804579410
3202-150W	125-150 mm	0.001mm	0.005 mm	6974804579427

Digital lever micrometer



Overall dimension(mm)

	L	A	B	W
0-25	168.5	29.8	25.4	64.5
25-50	197	55.3	31	80.5
50-75	227.5	80.3	44	96
75-100	257.5	105.3	56	112.5

Description

- Digital lever micrometer for quick measurement of parts
- Protection IP65
- Built-in bluetooth module to allow wireless data transmission
- Auto power off
- 3V battery (CR2032),Carbide measuring face
- Lever handle for quick measurement
- Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset,mm/inch
- Absolute/relative mode,Data transmission

Art. No.	Range	Scale	Indication error	Barcode
3217-25W	0-25 mm	0.001mm	0.003 mm	6974804579335
3217-50W	25-50 mm	0.001mm	0.003 mm	6974804579342
3217-75W	50-75 mm	0.001mm	0.004 mm	6974804579359
3217-100W	75-100 mm	0.001mm	0.004 mm	6974804579366

Digital height gauge

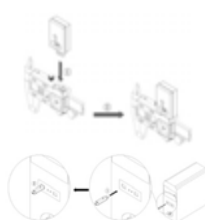


Description

- Protection IP65
- Built-in bluetooth module to allow wireless data transmission
- Auto power off,3V battery (CR2032)
- Grey base and ground beneath surface
- Handwheel adjustment,Carbide-tipped scriber
- With power port,Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset,mm/inch
- Absolute/relative mode,Data locking
- Data transmission

Art. No.	Range	Scale	Indication error	Barcode
2227-3000W	0-300 mm	0.001mm	0.02 mm	6974804579298
2227-6000W	0-600 mm	0.001mm	0.04 mm	6974804579304

2.4g wireless transmitter and receiver

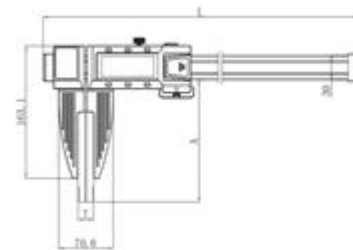


Description

- Good reliability to transmit and receive data
- Compact body easy to carry and use
- Max range 15m
- Direct data collecting,no software needed
- 8 devices at most allowed to use at the same time
- Transmitter DC3V, CR2032 battery
- Receiver DC5V, USB port at PC side to supply power
- Delivered with a manual,Fancy plastic box

Art.No.	Description	Barcode
WP-24GS1	2.4G wireless transmitter	6974804572206
WP-24GR1	2.4G wirelss receiver	6974804574866
WP-24G	2.4G set(transmitter+ receiver)	6974804572190

Digital carbon fibre caliper



Description

- Main body made of carbon fiber
- Protection IP65
- Built-in bluetooth module to allow wireless data transmission
- Auto power off,3V battery (CR2032)
- Arc inside measuring faces (20mm closed)
- With stop screw
- Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset,mm/inch,Absolute/relative mode
- Preset,Data locking,Data transmission

Art. No.	Range	Scale	Indication error	Jaw length	Barcode
2241-600W	0-600 mm	0.01mm	0.05 mm	130 mm	6974804579311
2241-1000W	0-1000 mm	0.01mm	0.06 mm	130 mm	6974804579328

VERNIER
CALIPER

VERNIER CALIPER

DIAL CALIPER

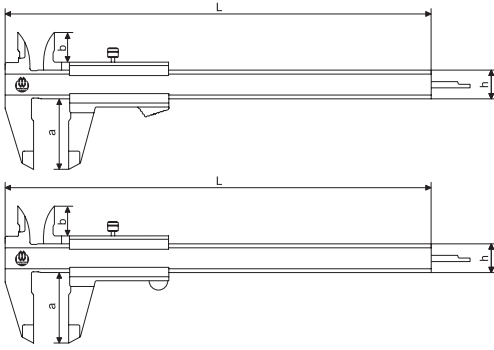
DIGITAL CALIPER

WORKSHOP VERNIER CALIPER

WORKSHOP DIGITAL CALIPER

DISC BRAKE CALIPER

Precision vernier caliper



Description

- Made of stainless ,hardened,Satin chrome finished
- With upper set screw,Metal thumb
- Deliver with inspection report
- In plastic box

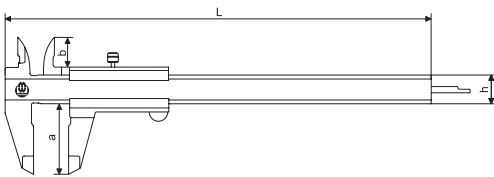
Overall dimension(mm)

	L	a	b	h
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

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

Precision vernier caliper



Description

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

Overall dimension(mm)

	L	a	b	h
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	0-200 mm	0.05mm	0.05mm	6972727953577
2110-5300	0-300 mm	0.05mm	0.05mm	6972727953584

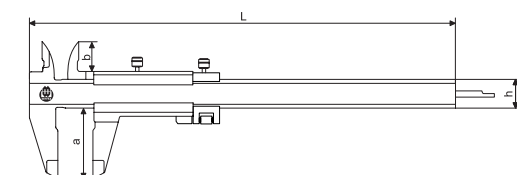
Precision vernier caliper



Description

- 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



Overall dimension(mm)

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

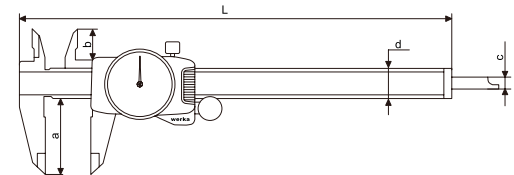
Dial caliper



Description

- Made of stainless ,hardened
- Metal housing
- High quality movement of dial
- With shock-proof function
- With fine adjustment wheel
- Flat depth rod, With locking screw
- Deliver with inspection report,Packed in plastic box

Art No.	Range	Reading	Range per Revolution	Accuracy error	Standard	Barcode
2305-150	0-150 mm	0.02 mm	2 mm	0.02 mm	DIN 862	6974804572947
2305-200	0-200 mm	0.02 mm	2 mm	0.03 mm	DIN 862	6974804572954
2305-300	0-300 mm	0.02 mm	2 mm	0.03 mm	DIN 862	6974804572961



Overall dimension(mm)

	L	a	b	c	d
0-150	235	40	15.5	6.5	16
0-200	286	50	19.5	6.5	16
0-300	410	64	22	7.45	20

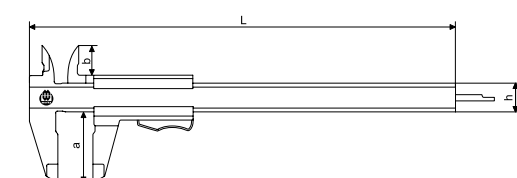
Precision vernier caliper



Description

- 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"	0.05mm/1/128"	0.03mm	6971570710122
210-9309	0-200mm/0-8"	0.05mm/1/128"	0.03mm	6971570719309

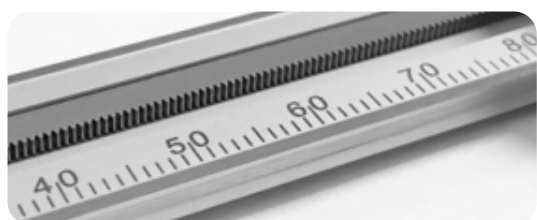


Overall dimension(mm)

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

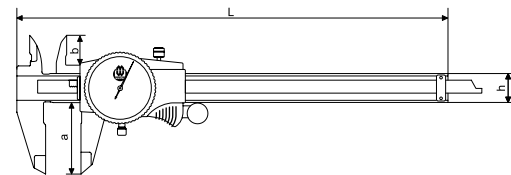


Brand new metal housing.Built-in double shock-proof mechanism.Ergonomically optimized fine-tuning thumbwheel set.



more endurable high-precision gear rack. chromed surface with clearer, more legible laser printing.

Dial caliper



Description

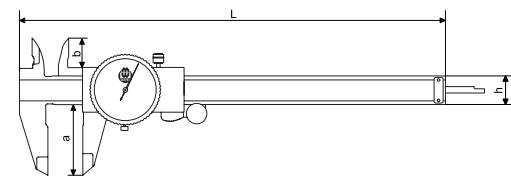
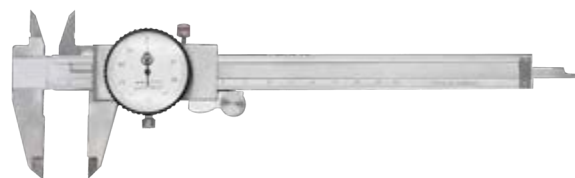
- Accuracy according to DIN862.
- Made of stainless steel, hardened
- High quality movement of dial, shockproof
- With thumb roller, Flat depth rod
- Deliver with inspection report, In plastic box

Overall dimension(mm)

	L	a	b	h
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



Description

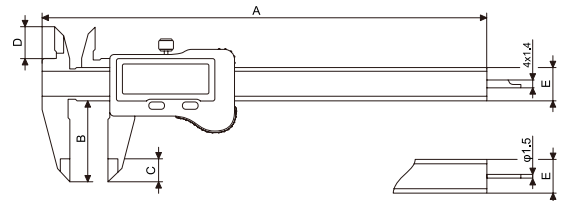
- Accuracy according to DIN862
- Made of stainless steel, hardened
- Shockproof design, With upper set screw
- Flat depth rod, Four way measurement
- Backside with thread table, In plastic box
- Deliver with inspection report

Overall dimension(mm)

	L	a	b	h
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
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



Description

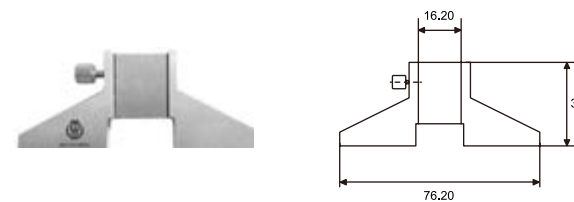
- Ergonomical design, Large display
- Digit height up to 11.5mm
- ABS Absolute system
- Max. displacement speed 2.5m/s
- Protection IP67, Without data output
- Auto power off when it is left alone more than 10mins
- move the vernier to energize it
- With a conversion table, a 3V battery
- Made of stainless steel, hardened
- Flat depth rod, Stop screw for the vernier
- Delivered with an inspection report, Prime plastic box
- ON/OFF, Reset at any position, mm/inch, Preset

Overall dimension(mm)

	A	B	C	D	E
0-150	234.5	40	11	16	16
0-200	290.5	50	14	19	16
0-300	388	64	14	19	16

Art No.	Range	Reading	Indication error	Standard	Barcode
2240-150	0-150 mm	0.01mm	0.02 mm	DIN 862	6974804572978
2240-200	0-200 mm	0.01mm	0.02 mm	DIN 862	6974804572985
2240-300	0-300 mm	0.01mm	0.02 mm	DIN 862	6974804572992

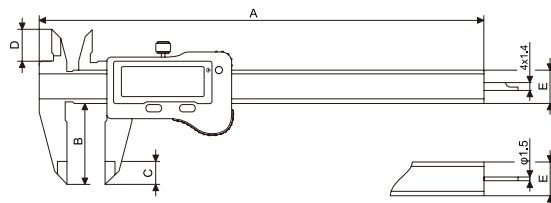
The optional



	Art No.
Depth base	WP-210-DB10

- Suitable for calipers to increase the stability of depth measurement
- Easy to fit with calipers

IP67 water-proof digital caliper with data output



Overall dimension(mm)

	A	B	C	D	E
0-150	235	40	12	15	16
0-200	287	50	13	19	16
0-300	389	60	14	22	16

Description

- Ergonomical design, Large display
- Digit height up to 11.5mm, ABS Absolute system
- Max. displacement speed 2.5m/s, Protection IP67
- With data output(cable)
- Auto power off when it is left alone more than 10mins
- move the vernier to energize it
- With a conversion table, a 3V battery
- Made of stainless steel, hardened
- Flat depth rod, Stop screw for the vernier
- Delivered with an inspection report
- Prime plastic box
- ON/OFF, Reset at any position
- mm/inch, Preset, Data transmission

Art No.	Range	Reading	Indication error	Standard	Barcode
2240-150D	0-150 mm	0.01mm	0.02 mm	DIN 862	6974804573005
2240-200D	0-200 mm	0.01mm	0.02 mm	DIN 862	6974804573012
2240-300D	0-300 mm	0.01mm	0.02 mm	DIN 862	6974804573029

Cable

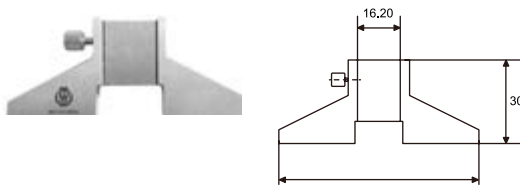
- The cable used for digital calipers 2240-150D/ 2240-200D/2240-300D only!
- To Connect PC via a USB port; to transmit data through a special software; multichannel display and management available.



Software interface at PC

Art No.
Cable WP-2240-150D-01

The optional



- Suitable for calipers to increase the stability of depth measurement
- Easy to fit with calipers

Art No.
Depth base WP-210-DB10

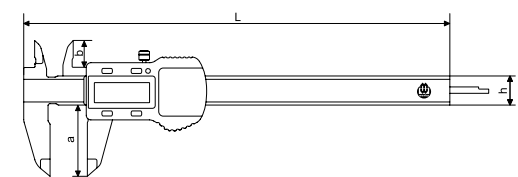
IP67 Water-proof Digital caliper



Description

- TOP quality. Accuracy according to DIN862
- IP67 protection, water and dust resistant
- Stainless steel, hardened, Four way measurement
- 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

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



Overall dimension(mm)

	L	a	b	h
0-150	236	40	16.5	16

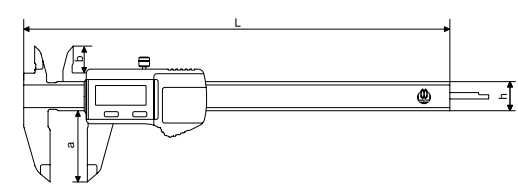
IP67 Water-proof Digital caliper



Description

- 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



Overall dimension(mm)

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

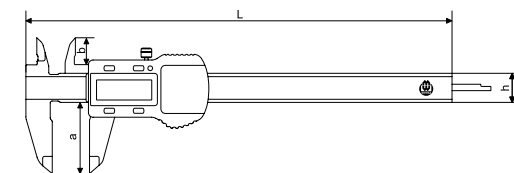
IP67 Water-proof Digital caliper



Description

- 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, Four way measurement
- New designed precision and high quality construction
- With INC, MODE, TOL and POWER/0 four buttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report

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



Overall dimension(mm)

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

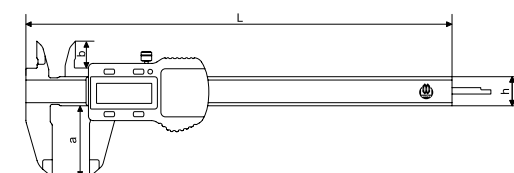
IP67 Water-proof Digital caliper



Description

- 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, Four way measurement
- New designed precision and high quality construction
- With INC, MODE, TOL and POWER/0 four buttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report

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



Overall dimension(mm)

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

IP67 Water-proof digital caliper 0.001mm



Description

- 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"	0.02mm	6972727952464

Digital caliper



Description

- 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



Description

- Top quality. 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



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

Description

- 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

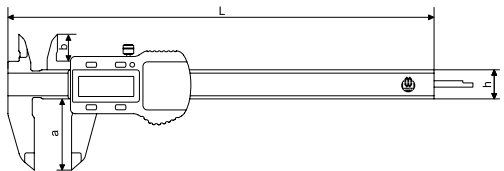
ABS Digital caliper



Description

- Top quality. Accuracy according to DIN862
- A green LED light turn on when the reading is within preset tolerance limits
- Absolute system with 3V, No moving speed limit
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- 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
2203-150	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717848
2203-200	200mm/8"	0.01mm/0.0005"	0.03mm	6971570717855
2203-300	300mm/12"	0.01mm/0.0005"	0.03mm	6971570717862



Overall dimension(mm)

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

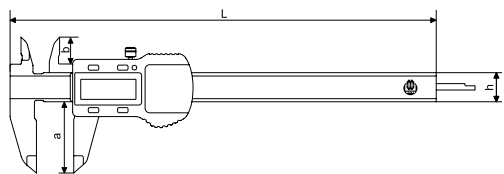
ABS Digital caliper



Description

- Top quality. Accuracy according to DIN862
- Absolute system with 3V, No moving speed limit
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- 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

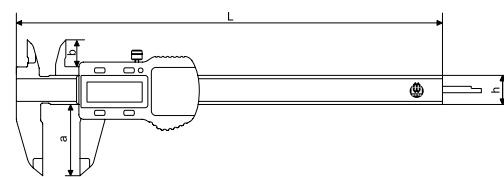
Art No.	Range	Reading	Accuracy error	Barcode
2204-150	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717817



Overall dimension(mm)

	L	a	b	h
0-150	236	40	16.5	16

Digital caliper



Description

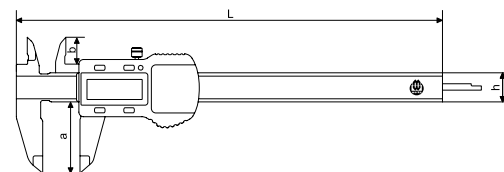
- Top quality. Accuracy according to DIN862
- A green LED light turn on when the reading is within preset tolerance limits
- IP54 protection, water and dust resistant
- Scale with glass rail for precision sampling
- Stainless steel, hardened Four way measurement
- With INC, MODE, TOL and POWER/0 four buttons
- Deliver in plastic box with 3V CR2032 battery and inspection report

Art No.	Range	Reading	Accuracy error	Barcode
2205-150	150mm/6"	0.01mm/0.0005"	0.02mm	6971570717909
2205-200	200mm/8"	0.01mm/0.0005"	0.03mm	6971570717916
2205-300	300mm/12"	0.01mm/0.0005"	0.03mm	6971570717923

Overall dimension(mm)

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

Digital caliper



Description

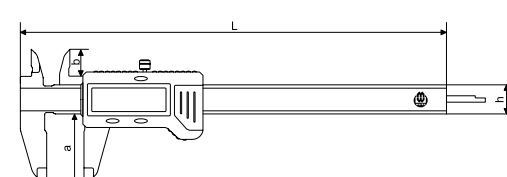
- Made of stainless, hardened
- New designed precision ang high quality construction
- Four way measurement
- With mm/inch, ABS, OFF/ON, ZERO four buttons
- Deliver with inspection report
- In plastic box, with 3V CR2032 battery

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

Overall dimension(mm)

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

Digital caliper



Description

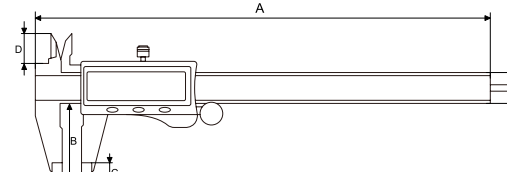
- Stainless steel, hardened, Four way measurement
- Big LCD display
- With mm/inch, ON/OFF and ZERO 3 buttons
- Deliver in plastic box with 1.5V LR44 battery and inspection report

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

Overall dimension(mm)

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

Digital caliper with metal housing



Description

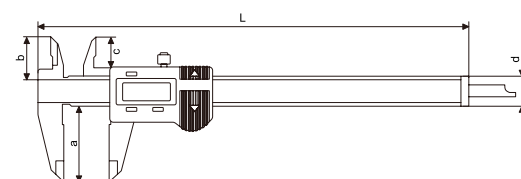
- Metal housing, Large display
- Made of stainless steel, hardened
- Stop screw for the vernier, Flat depth rod
- Auto power off when it is left alone more than 10mins
- move the vernier to energize it
- With a conversion table, A 3V battery
- Delivered with an inspection report
- Prime plastic box
- ON/OFF, Reset at any position, mm/inch

Art No.	Range	Reading	Indication error	Standard	Barcode
2242-150	0-150 mm	0.01mm	0.02 mm	DIN 862	6974804573395
2242-200	0-200 mm	0.01mm	0.02 mm	DIN 862	6974804573401
2242-300	0-300 mm	0.01mm	0.03 mm	DIN 862	6974804573418

Overall dimension(mm)

	A	B	C	D	E
0-150	235	40	12	15	16
0-200	287	50	13	19	16
0-300	389	60	14	22	16

Mini digital caliper



Description

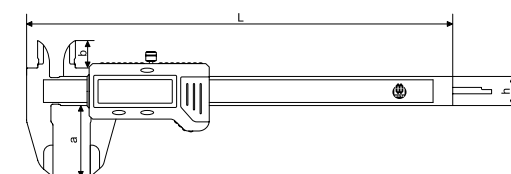
- Universal housing
- Made of stainless steel, hardened
- Stop screw for the vernier
- Flat depth rod
- 1.5V button cell
- ON/OFF, Reset at any position, mm/inch

Overall dimension(mm)

	L	a	b	c	d
0-100	170	30.5	17	12.5	13

Art No.	Range	Reading	Indication error	Standard	Barcode
2239-100	0-100 mm	0.01mm	0.02 mm	DIN 862	6974804571537

Digital caliper



Description

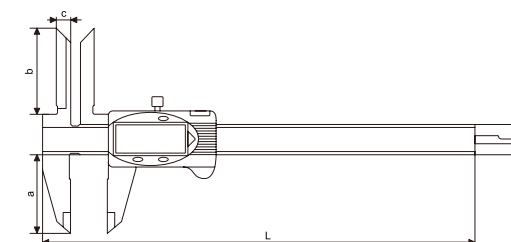
- Made of high strength and wear-resistant engineering plastic
- Large LCD display with clear reading
- With mm/inch, OFF/ON and ZERO three buttons
- Packed in plastic box with 1.5V battery

Overall dimension(mm)

	L	a	b	h
0-150	236	40	16.5	16

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

Digital inside groove caliper with double jaws



Description

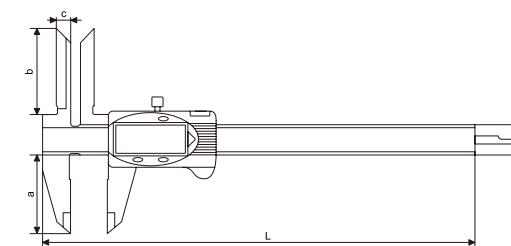
- Standard module
- Made of stainless steel, hardened
- Extended upper jaws, Standard lower jaws
- Stop screw for the vernier, A 3V battery
- Delivered with an inspection report and a manual
- Plastic box
- ON/FF, Reset at any position, mm/inch

Overall dimension(mm)

	L	a	b	c	d
0-150	236	40	45	7.5	16
0-200	286	50	50	7.5	16

Art No.	Range	Reading	Indication error	Standard	Barcode
2237-150	0-150 mm	0.01mm	0.04 mm	Enterprise	6974804574200
2237-200	0-200 mm	0.01mm	0.04 mm	Enterprise	6974804571506

Digital inside groove caliper with double jaws



Description

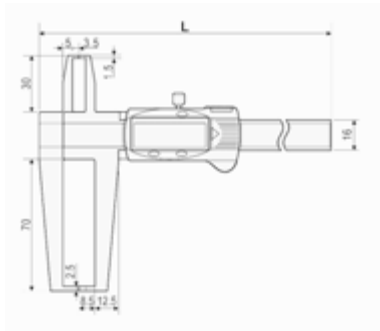
- IP67 water-proof module
- Made of stainless steel, hardened
- Extended upper jaws, Standard lower jaws
- Stop screw for the vernier, A 3V battery
- Delivered with an inspection report and a manual
- Plastic box
- ON/FF, Reset at any position, mm/inch

Overall dimension(mm)

	L	a	b	c	d
0-150	236	40	45	7.5	16
0-200	286	50	50	7.5	16

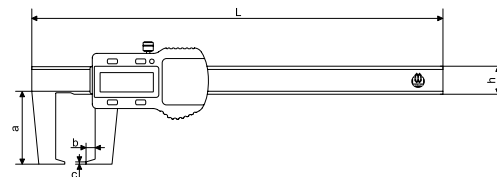
Art No.	Range	Reading	Indication error	Standard	Barcode
2237-150P	0-150 mm	0.01mm	0.04 mm	Enterprise	6974804574217
2237-200P	0-200 mm	0.01mm	0.04 mm	Enterprise	6974804573333

D

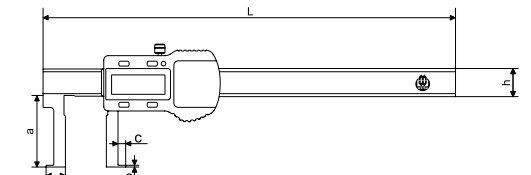


	L
0-150	270
0-200	320
0-300	425

Digital caliper for outside grooves



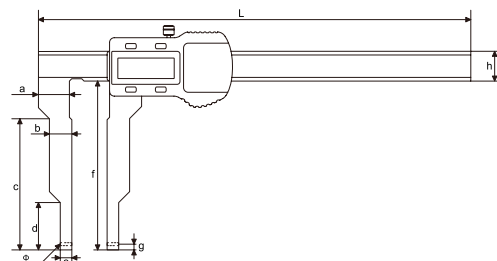
	L	a	b	h
0-150	250	46	5	16



	L	a	b	c	e	h
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

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Digital caliper with interchangeable probes



Overall dimension(mm)

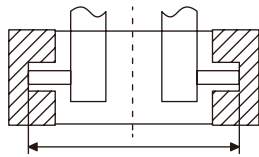
	L	a	b	c	d	e	f	g	h	Φ
0-300	407	17	12	70	25	6	90	3.5	16	2

Description

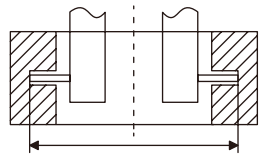
- Various probes for the measurement of different inside and outside grooves
- Made of stainless steel
- Extended jaws,Interchangeable probes
- Delivered with 4 pairs of standard probes
- With data output,Stop screw for the vernier
- A 3V battery
- Delivered with an inspection report and a manual,Plastic box
- ON/FF,Reset at any position
- mm/inch,(+/-) Preset

Art No.	Range	Reading	Indication error	Standard	Barcode
2235-300	0-300 mm	0.01mm	0.04 mm	Enterprise	6972727953836

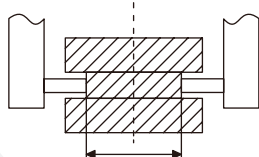
Accessory



Spherical point for groove measurement



Spherical blade point for narrow groove measurement



Flat point for external groove measurement

Short spherical and flat points(included)



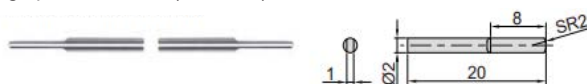
Long spherical and flat points(included)



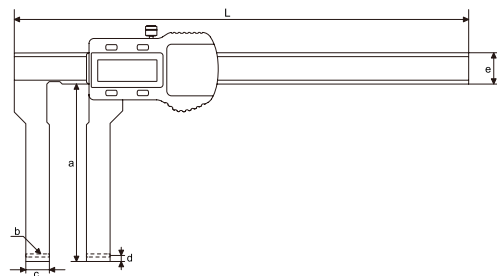
Short spherical blade points(included)



Long spherical blade(included)



Digital caliper with interchangeable probes



Overall dimension(mm)

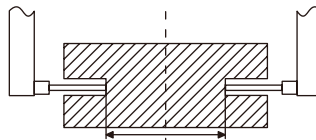
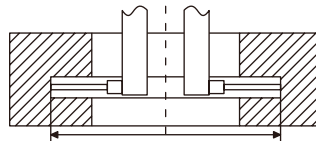
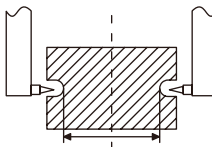
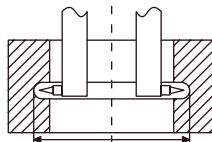
	L	a	b	c	d	e
0-300	407	90	M2.5x0.45	12	3.5	16

Description

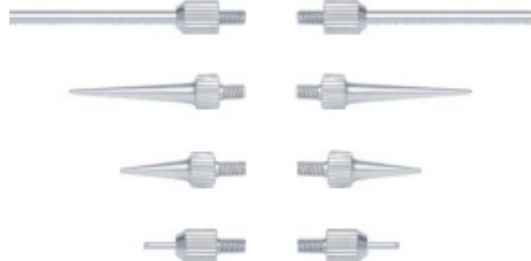
- Various probes for the measurement of different inside and outside grooves
- Made of stainless steel
- Extended jaws,Interchangeable probes
- Delivered with 4 pairs of standard probes
- With data output
- Stop screw for the vernier,A 3V battery
- Delivered with an inspection report and a manual
- Plastic box
- ON/FF,Reset at any position
- mm/inch,(+/-) Preset

Art No.	Range	Reading	Indication error	Standard	Barcode
2235-300B	0-300 mm	0.01mm	0.04 mm	Enterprise	6974804571490

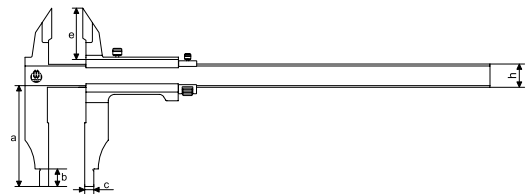
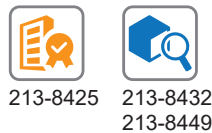
Internal and external groove measurment



Interchangeable points(included)



Workshop vernier caliper



Overall dimension(mm)

	a	b	c	e	h
0-300	100	12	10	24.5	20

Description

- Stainless steel, hardened,Satin chrome finished
- Monoblock,Knife pionts
- 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
213-8425	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



Description

- Stainless steel, hardened,Satin chrome finished
- Monoblock,with cross pionts
- 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"	100mm	±0.07mm	20mm	6971570718456
213-8463	0-500mm/0-20"	0.05mm/1/128"	150mm	±0.09mm	20mm	6971570718463
213-8470	0-1000mm/0-40"	0.05mm/1/128"	150mm	±0.10mm	20mm	6971570718470
2104-501	0-500mm	0.05mm	100mm	±0.08mm	20mm	6972727951160
2104-601	0-600mm	0.05mm	100mm	±0.08mm	20mm	6972727951177
2104-600	0-600mm	0.05mm	150mm	±0.09mm	20mm	6972727951184
2104-801	0-800mm	0.05mm	100mm	±0.12mm	20mm	6972727951191
2104-802	0-800mm	0.05mm	200mm	±0.12mm	20mm	6972727951207
2104-1001	0-1000mm	0.05mm	100mm	±0.09mm	20mm	6972727951214
2104-1002	0-1000mm	0.05mm	125mm	±0.09mm	20mm	6972727951221
2104-2300	0-300mm	0.02mm	100mm	±0.05mm	20mm	6972727951238
2104-2501	0-500mm	0.02mm	100mm	±0.05mm	20mm	6972727951245
2104-2500	0-500mm	0.02mm	150mm	±0.06mm	20mm	6972727951252
2104-2601	0-600mm	0.02mm	100mm	±0.05mm	20mm	6972727951269
2104-2600	0-600mm	0.02mm	150mm	±0.06mm	20mm	6972727951276
2104-2801	0-800mm	0.02mm	100mm	±0.07mm	20mm	6972727951283
2104-2802	0-800mm	0.02mm	200mm	±0.08mm	20mm	6972727951290
2104-2102	0-1000mm	0.02mm	125mm	±0.08mm	20mm	6972727951306



Workshop vernier caliper



Description

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

Overall dimension(mm)

	a	b	c	h
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"	100mm	±0.07 mm	20mm	6971570718395
2105-301	0-300mm/0-12"	0.05mm/1/128"	150 mm	±0.08 mm	20mm	6974804578611
2105-401	0-400mm/0-16"	0.05mm/1/128"	150 mm	±0.08 mm	20mm	6974804578635
2105-402	0-400mm/0-16"	0.05mm/1/128"	200 mm	±0.09mm	20mm	6974804578642
213-8401	0-500mm/0-20"	0.05mm/1/128"	150mm	±0.09mm	20mm	6971570718401
2105-500	0-500mm/0-20"	0.05mm/1/128"	100 mm	±0.08 mm	20mm	6974804578659
2105-502	0-500mm/0-20"	0.05mm/1/128"	200 mm	±0.12 mm	20mm	6974804578666
2105-503	0-500mm/0-20"	0.05mm/1/128"	250 mm	±0.13 mm	20mm	6974804578673
213-9460	0-600mm/0-24"	0.05mm/1/128"	100 mm	±0.08 mm	20mm	6971570719460
213-9477	0-600mm/0-24"	0.05mm/1/128"	150 mm	±0.09 mm	20mm	6971570719477
2105-602	0-600mm/0-24"	0.05mm/1/128"	200 mm	±0.12 mm	20mm	6974804578680
2105-603	0-600mm/0-24"	0.05mm/1/128"	300 mm	±0.14 mm	20mm	6974804578697
2105-801	0-800mm/0-32"	0.05mm/1/128"	100 mm	±0.08 mm	20mm	6972727951313
2105-800	0-800mm/0-32"	0.05mm/1/128"	150 mm	±0.09 mm	20mm	6972727951320
2105-802	0-800mm/0-32"	0.05mm/1/128"	200 mm	±0.12 mm	20mm	6974804578703
2105-803	0-800mm/0-32"	0.05mm/1/128"	300 mm	±0.14 mm	20mm	6972727951337
213-8418	0-1000mm/0-40"	0.05mm/1/128"	150mm	±0.10mm	20mm	6971570718418
2105-1002	0-1000mm/0-40"	0.05mm/1/128"	200 mm	±0.13 mm	20mm	6974804578710
2105-1003	0-1000mm/0-40"	0.05mm/1/128"	300 mm	±0.15 mm	20mm	6974804578727
2105-1004	0-1000mm/0-40"	0.05mm/1/128"	500 mm	±0.42 mm	20mm	6974804578734
2105-1501	0-1500mm/0-60"	0.05mm/1/128"	150 mm	±0.16 mm	20mm	6974804578741
2105-1502	0-1500mm/0-60"	0.05mm/1/128"	200 mm	±0.20 mm	20mm	6974804578758
2105-1503	0-1500mm/0-60"	0.05mm/1/128"	300 mm	±0.30 mm	20mm	6974804578765
2105-2002	0-2000mm/0-80"	0.05mm/1/128"	200 mm	±0.20 mm	20mm	6974804578772
2105-2003	0-2000mm/0-80"	0.05mm/1/128"	300 mm	±0.30 mm	20mm	6974804578789
2105-3003	0-3000mm/0-120"	0.05mm/1/128"	300 mm	±0.37 mm	20mm	6974804578796
2105-2301	0-300mm/0-12"	0.02mm/0.001"	100 mm	±0.05 mm	20mm	6972727952846
2105-2501	0-500mm/0-20"	0.02mm/0.001"	100 mm	±0.05 mm	20mm	6972727952853
2105-2500	0-500mm/0-20"	0.02mm/0.001"	150 mm	±0.06 mm	20mm	6972727952860
2105-2601	0-600mm/0-24"	0.02mm/0.001"	100 mm	±0.05 mm	20mm	6972727952877
2105-2600	0-600mm/0-24"	0.02mm/0.001"	150 mm	±0.06 mm	20mm	6972727952884
2105-2801	0-800mm/0-32"	0.02mm/0.001"	100 mm	±0.05 mm	20mm	6972727951344
2105-2800	0-800mm/0-32"	0.02mm/0.001"	150 mm	±0.06 mm	20mm	6972727951351
2105-2803	0-800mm/0-32"	0.02mm/0.001"	300 mm	±0.10 mm	20mm	6972727951368
2105-2101	0-1000mm/0-40"	0.02mm/0.001"	125 mm	±0.06 mm	20mm	6972727952891
2105-2100	0-1000mm/0-40"	0.02mm/0.001"	150 mm	±0.07 mm	20mm	6972727952907
2105-2150	0-1500mm/0-60"	0.02mm/0.001"	150 mm	±0.11 mm	20mm	6972727952914
2105-2202	0-2000mm/0-80"	0.02mm/0.001"	200 mm	±0.14 mm	20mm	6972727952921
2105-2303	0-3000mm/0-120"	0.02mm/0.001"	300 mm	±0.31 mm	20mm	6972727952938

Long-range light digital caliper



Description

- Made in and originated from Germany
- Super large display, clearer digit,ABS system
- Made of light metal,anodized surface
- Lower jaws with arc internal measuring blades (20mm for each side), and with upper jaws
- With stop screws
- 3V battery(CR2032)
- Delivered with an inspection report
- Fancy plastic box
- ON/OFF,Reset,mm/inch
- Absolute/relative mode,(+/-)Preset



*Made in Germany

Art.No.	Range	Scale	Indication error	Lower jaw	Barcode
2112-1500G	0-1500 mm	0.01 mm	0.10 mm	150 mm	6974804572725
2112-2000G	0-2000 mm	0.01 mm	0.13 mm	150 mm	6974804572732
2112-2500G	0-2500 mm	0.01 mm	0.20 mm	150 mm	6974804572749
2112-3000G	0-3000 mm	0.01 mm	0.25 mm	150 mm	6974804572756

Light digital caliper



Description

- Made in and originated from Germany
- Super large display, clearer digit
- ABS system
- Made of light metal,anodized surface
- Lower jaws with arc internal measuring blades (10mm for each side), and with upper jaws.
- With stop screws
- 3V battery(CR2032)
- Delivered with an inspection report
- Fancy plastic box
- ON/OFF,Reset,mm/inch
- Absolute/relative mode,(+/-)Preset



*Made in Germany

Art.No.	Range	Scale	Indication error	Lower jaw	Barcode
2111-300G	0-300 mm	0.01 mm	0.04 mm	90 mm	6974804572688
2111-500G	0-500 mm	0.01 mm	0.05 mm	90 mm	6974804572695
2111-800G	0-800 mm	0.01 mm	0.06 mm	90 mm	6974804572701
2111-1000G	0-1000 mm	0.01 mm	0.06 mm	90 mm	6974804572718

Workshop digital caliper



Description

- 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



213-8609



213-8616
213-8623

Workshop digital caliper



Description

- 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
2212-501	500mm/20"	0.01mm/0.0005"	100 mm	±0.05 mm	20 mm	6972727951405
2212-601	600mm/24"	0.01mm/0.0005"	100 mm	±0.05 mm	20 mm	6972727951412
2212-600	600mm/24"	0.01mm/0.0005"	150 mm	±0.06 mm	20 mm	6972727951429
213-8654	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718654



213-8630



For others

Workshop digital caliper



Description

- 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

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
213-9484	600mm/24"	0.01mm/0.0005"	100 mm	±0.05 mm	20 mm	6971570719484
213-9491	600mm/24"	0.01mm/0.0005"	150 mm	±0.06 mm	20 mm	6971570719491
2213-801	800mm/32"	0.01mm/0.0005"	100 mm	±0.06 mm	20 mm	6974804579571
2213-800	800mm/32"	0.01mm/0.0005"	150 mm	±0.07 mm	20 mm	6974804579588
213-8593	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718593
2213-1500	1500mm/60"	0.01mm/0.0005"	200 mm	±0.12 mm	20 mm	6972727958909
2213-2000	2000mm/80"	0.01mm/0.0005"	200 mm	±0.14 mm	20 mm	6972727958893



213-8579



For others



Overall dimension(mm)

	a	b	c	h
0-500	150	18	10	24

IP66 Water-proof Workshop digital caliper



Description

- 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,Low battery alarm
- With knife points and fine adjustment
- With REL,mm/inch and ABS three buttons
- Zero setting,mm/inch convenient at any position
- 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

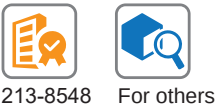


213-8517



213-8524
213-8531

IP66 Water-proof Workshop digital caliper



Description

- 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

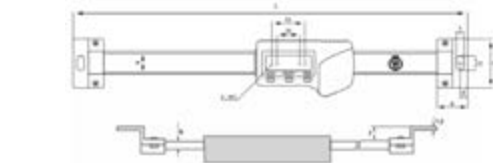
Art No.	Range	Reading	Length of jaw	Accuracy error	Inside Measuring	Barcode
213-8548	300mm/12"	0.01mm/0.0005"	100mm	±0.05mm	20 mm	6971570718548
213-8555	500mm/20"	0.01mm/0.0005"	150mm	±0.06mm	20 mm	6971570718555
2209-501	500mm/20"	0.01mm/0.0005"	100mm	±0.06 mm	20 mm	6972727951375
2209-601	600 mm/24"	0.01mm/0.0005"	100mm	±0.06 mm	20 mm	6972727951382
2209-600	600mm/24"	0.01mm/0.0005"	150mm	±0.06 mm	20 mm	6972727951399
213-8562	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718562

Horizontal digital scale



Description

- Displacement measurement, worktable and lathe postioning etc
- Reset at any position,Made of stainless steel
- Both ends with fixed black holder
- LCD display,With Zero memory function
- 1.5V battery
- Delivered with holders installed on the back of the frame
- ON/OFF,Reset,mm/inch

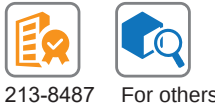


Overall dimension(mm)

	L	a	b	c	d	e
100	215	16	4	36	6	24
150	273	16	4	36	6	24
200	323	16	4	36	6	24
300	444	16	4	36	6	24
500	682	24	5.5	45	8	32
600	782	24	5.5	45	8	32
1000	1240	31	10.5	60	10	40

Art No.	Range	Reading	Indication error	Barcode
4500-100B	100 mm	0.01mm	0.03 mm	6972727959067
4500-150B	150 mm	0.01mm	0.03 mm	6974804579519
4500-200B	200 mm	0.01mm	0.03 mm	6974804579526
4500-300B	300 mm	0.01mm	0.04 mm	6974804579533
4500-500B	500 mm	0.01mm	0.05 mm	6974804579540
4500-600B	600 mm	0.01mm	0.05 mm	6974804579557
4500-1000B	1000 mm	0.01mm	0.07 mm	6974804579564

IP66 Water-proof Workshop digital caliper



Description

- 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

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
2210-501	500mm/20"	0.01mm/0.0005"	100mm	±0.06 mm	20 mm	6972727951436
2210-601	600 mm/24"	0.01mm/0.0005"	100mm	±0.06 mm	20 mm	6972727951443
2210-600	600mm/24"	0.01mm/0.0005"	150mm	±0.06 mm	20 mm	6972727951450
2210-801	800mm/32"	0.01mm/0.0005"	100mm	±0.06 mm	20 mm	6972727951467
2210-800	800mm/32"	0.01mm/0.0005"	150mm	±0.07 mm	20 mm	6972727951474
2210-802	800mm/32"	0.01mm/0.0005"	200mm	±0.07 mm	20 mm	6972727951481
2210-803	800mm/32"	0.01mm/0.0005"	300mm	±0.14 mm	20 mm	6972727951498
213-8500	1000mm/40"	0.01mm/0.0005"	150mm	±0.07mm	20 mm	6971570718500

Digital gear tooth caliper

Description

- 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

Description

- Stainless steel, hardened, Big LCD display
- Designed for measuring the thickness of disc brake
- With one pointed anvil and one flat anvil
- 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

Description

- Stainless steel, hardened, Big LCD display
- Designed for measuring the thickness of disc brake
- With two pointed anvils
- 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

Accessory for catliper

Description

- Accessory set
- Suitable for 3.5mm jaw thickness of calipers
- Plastic box

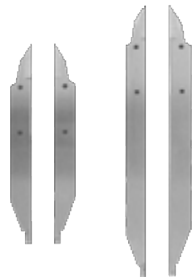
Art.No.	Barcode
WP-210-00	6974804572923



Description

- M2.5 probe set
- Suitable for large range calipers

Art.No.	Barcode
WP-210-09998	6974804572909



Description

- Interchangeable meausing jaws with upper blades and arc internal measuring jaws
- Suitable for large range calipers

Art.No.	Size	Barcode
WP-210-80090	90 mm	6974804572855
WP-210-80125	125 mm	6974804572862
WP-210-80150	150 mm	6974804572879



Description

- Accessory set
- Suitable for 4.5mm jaw thickness of 300mm calipers
- Plastic box

Art.No.	Barcode
WP-210-01	6974804572930



Description

- Setting gauge
- Suitable for calibration and setting of large range calipers

Art.No.	Barcode
WP-210-09999	6974804572916

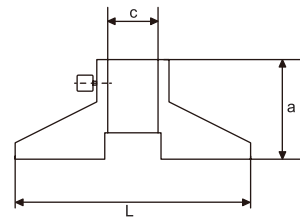


Description

- Interchangeable meausing jaws with upper blades
- Suitable for large range calipers

Art.No.	Size	Barcode
WP-210-09996	90 mm	6974804572886
WP-210-09997	150 mm	6974804572893

Depth base



Overall dimension(mm)

L	a	b
76.2	30	16.2



Description

- Made of stainless steel
- With stop screw
- Suitable for calipers to increase the stability of depth measurement

Art No.	Range	Barcode
WP-210-DB10	76.2x30x16.2 mm	6972727959593

DEPTH GAUGE

VERNIER DETPTH GAUGE

•

DIGITAL DETPTH GAUGE

•

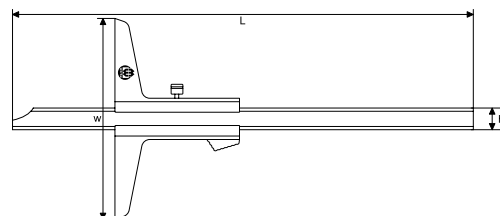
DIGITAL TREAD DETPTH GAUGE

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Vernier depth gauge



Description

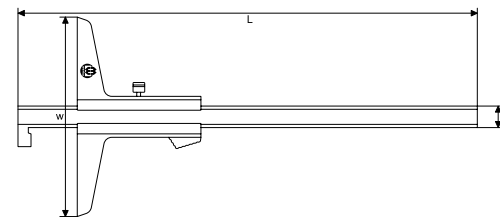
- Accuracy according to DIN862
- Made of stainless steel,hardened
- Scale and nonius satin chrome finished
- Double scales enable to use as normal depth gauge
- Packed in plastic box
- Deliver with inspection report

Overall dimension(mm)

	L	w	h
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 with single hook



Description

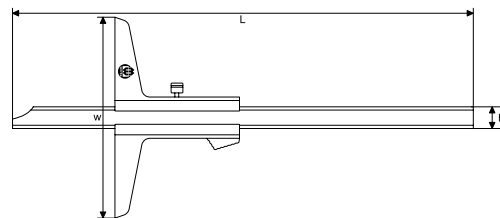
- Accuracy according to DIN862
- Made of stainless steel,hardened
- Scale and nonius satin chrome finished
- Double scales enable to use as normal depth gauge
- Packed in plastic box
- Deliver with inspection report

Overall dimension(mm)

	L	w	h
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
211-0207	0-150mm	0.05mm	100mm	0.05mm	6971570710207
211-0214	0-300mm	0.05mm	100mm	0.05mm	6971570710214

Vernier depth gauge



Description

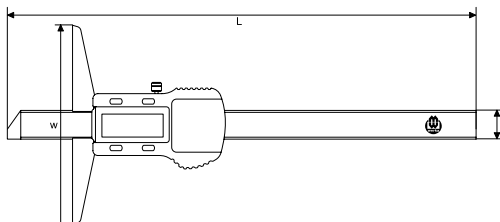
- Accuracy according to DIN862.
- Made of stainless steel,hardened
- Scale and nonius satin chrome finished
- Packed in plastic box,Deliver with inspection report

Overall dimension(mm)

	L	w	h
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
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

Digital depth gauge - IP67



Description

- 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 qualityconstruction
- With INC,MODE,HOLD and POWER/O fourbuttons
- In plastic box, with 3V CR2032 battery
- Deliver with inspection report

Overall dimension(mm)

	L	w	h
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

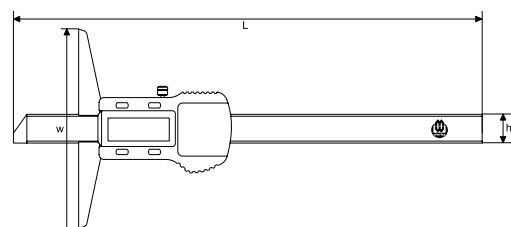
Absolute digital depth gauge



Description

- 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

Art No.	Range	Reading	Length of base	Accuracy error	Barcode
2222-150	150mm/6"	0.01mm/0.0005"	100mm	±0.03mm	6971570717961
2222-200	200mm/8"	0.01mm/0.0005"	100mm	±0.03mm	6971570717978
2222-300	300mm/12"	0.01mm/0.0005"	150mm	±0.03mm	6971570717985



Overall dimension(mm)

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

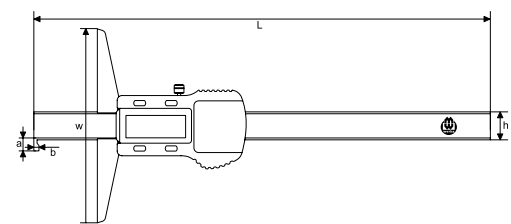
Absolute digital depth gauge with single hook



Description

- 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

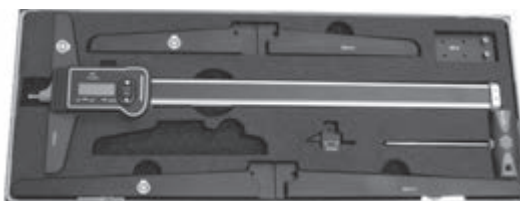
Art No.	Range	Reading	Accuracy error	Length of base	Barcode
2223-150	150mm/6"	0.01mm/0.0005"	0.03mm	100mm	6971570717992
2223-200	200mm/8"	0.01mm/0.0005"	0.03mm	100mm	6971570718005
2223-300	300mm/12"	0.01mm/0.0005"	0.04mm	150mm	6971570718012



Overall dimension(mm)

	L	w	h	a	b
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

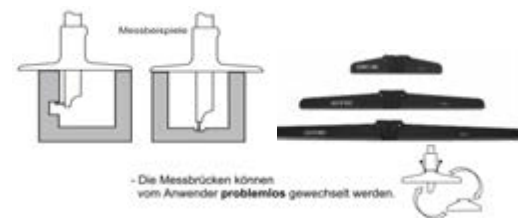
Light digital depth gauge



Description

- Made in and originated from Germany
- LCD display
- Made of light metal,anodized surface
- With 3 interchangeable bridges
- Ball tip,With stop screws,1.5V battery(LR44)
- Delivered with a manual,Plastic box
- Delivered with an inspection report
- ON/OFF,Reset,mm/inch

Art.No.	Range	Scale	Indication error	Bridge	Barcode
2113-300	0-300 mm	0.01 mm	0.04 mm	150/300/450 mm	6974804572763
2113-500	0-500 mm	0.01 mm	0.05 mm	150/300/450 mm	6974804572770
2113-800	0-800 mm	0.01 mm	0.06 mm	150/300/450 mm	6974804572787



*Made in Germany

Light digital depth gauge



Description

- Made in and originated from Germany
- Made of light metal,anodized surface
- With extended bridge and base
- Disk contact tip,With stop screws
- LCD display,1.5V battery(LR44)
- Delivered with a manual,Plastic box
- Delivered with an inspection report
- ON/OFF,Reset,mm/inch

Art.No	Range	Scale	Indication error	Bridge/extended base	Barcode
2113-100D	0-100 mm	0.01 mm	0.03 mm	150/350 mm	6974804572794
2113-200D	0-200 mm	0.01 mm	0.03 mm	150/350 mm	6974804572800
2113-300D	0-300 mm	0.01 mm	0.04 mm	150/350 mm	6974804572817
2113-500D	0-500 mm	0.01 mm	0.05 mm	150/350 mm	6974804572824
2113-800D	0-800 mm	0.01 mm	0.06 mm	150/350 mm	6974804572831
2113-950D	0-950 mm	0.01 mm	0.06 mm	150/350 mm	6974804572848



*Made in Germany

Depth micrometers



Description

- Base 63x16 mm, Scale chrome finished
- Measuring inserts $\varnothing 4.5\text{mm}$ with spherical measuring face
- Inserts simply exchangeable
- With ratchet friction thimble
- 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 tread depth gauge

Description

- 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 $\varnothing$	Accuracy error	Barcode
211-8715	30mm/1.2"	0.01mm/0.0005"	60mm	1.5mm	0.02mm	6971570718715

Digital depth gauge



Description

- 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

Description

- 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
-
- VERNIER HEIGHT GAUGE
-
- DIAL HEIGHT GAUGE
-
- DIGITAL HEIGHT GAUGE

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	

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

Panel:

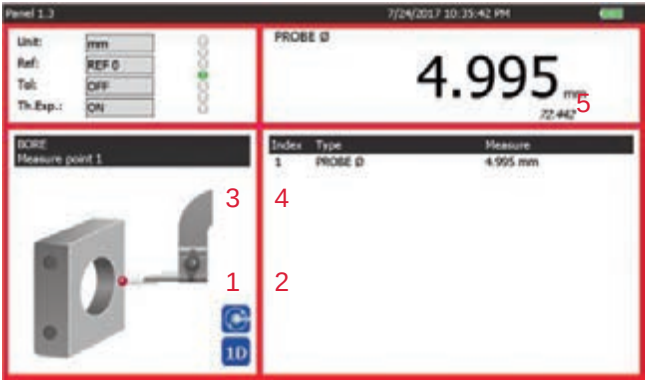


N°	Description
1	Measuring features+numeric keyboard
2	Manul functions
3	Selection and confirmation

F

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/disable 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	70×2mm(ball)	WP-2228-02
Mesuring probe	100×2mm(ball)	WP-2228-03
Mesuring probe	100×3mm(ball)	WP-2228-04
Mesuring probe	110×4mm(ball)	WP-2228-05
Mesuring probe	80×10mm(ball)	WP-2228-06
Vertical adapter	8mm&4mm	WP-2228-20
Parallel adapter	8mm&4mm	WP-2228-21

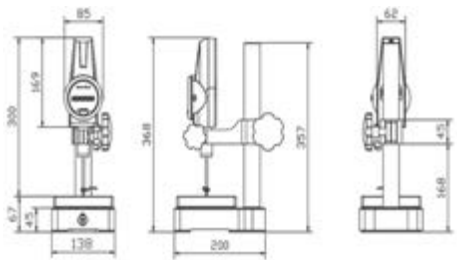
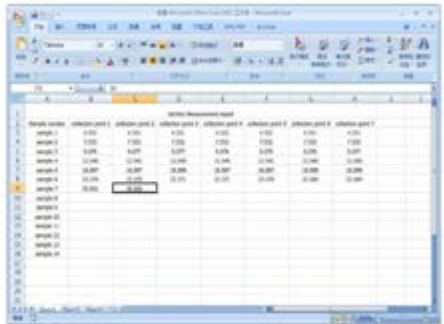


Precision digital height gauge

- 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
Dimesion of ceramic table	130x130mm
Response speed	Max 5000mm/s
Measuring tips	Conical tip,Flat tip,Ball tip
Working environment	Temperature 0~40℃ ,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.



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HEIGHT GAUGE

Digital height gauge

Description

- 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 with wheel

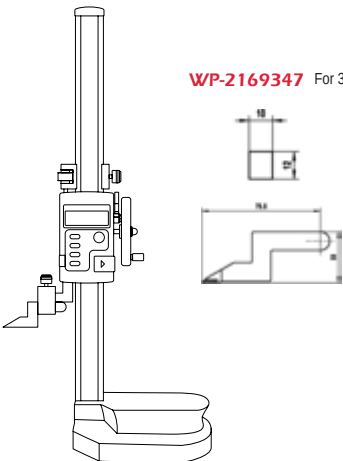
Description

- 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

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



WP-2169347 For 300/600



Overall dimension(mm)

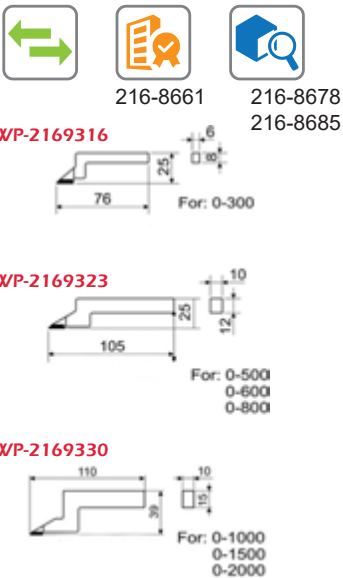
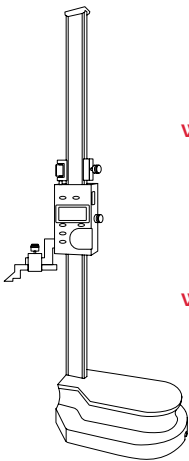
	H	h	a	b	c
0-300	475	43	135	80	15
0-600	870	54	180	80	15

Digital height gauge

Description

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

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



Overall dimension(mm)

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



MICROMETERS

OUTSIDE MICROMETERS

•

DIGITAL MICROMETERS

•

INTERNAL MICROMETERS

•

THREE POINT INTERNAL MICROMETERS

•

BROE GAUGE

•

•

•

Outside micrometers



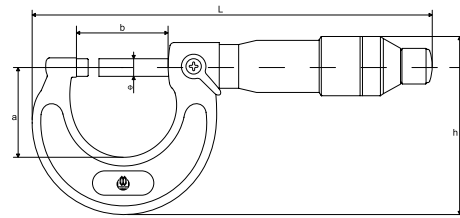
Description

- 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
217-5400	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

Outside micrometers



Description

- 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

Overall dimension(mm)

	L	a	b	h
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

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

Outside micrometer set with arch-shaped frame



Description

- Arch-shaped light frame, Painted frame
- Ratchet friction thimble device
- Delivered with setting gauge and spanner, Delivered with an inspection report
- (3101-T3) 3pcs in 1 set, plastic box, (3101-T4) 4pcs in 1 set, plastic box
- (217-9576) 6pcs in 1 set, aluminum box
- (217-3081) 6pcs in 1 set, Aluminum box

Art No.	Range	Reading	Content	Standard	Barcode
3101-T3	0-75 mm	0.01mm	0-25mm\25-50mm\50-75mm	DIN 863	6974804574293
3101-T4	0-100 mm	0.01mm	0-25mm\25-50mm\50-75mm\75-100mm	DIN 863	6974804574309
217-9576	0-150mm	0.01mm	0-25mm,25-50mm,50-75mm,75-100mm 100-125mm,125-150mm	DIN 863	6971570719576
217-3081	150-300 mm	0.01mm	150-175mm\175-200mm\200-225mm\ 225-250mm\250-275mm\275-300mm	DIN 863	6974804573081

Outside micrometer set with u-shaped frame



Description

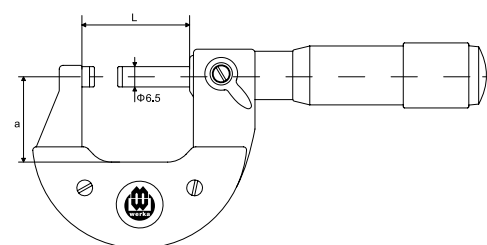
- U-shaped frame with plate, Painted frame
- Ratchet friction thimble device
- Delivered with setting gauge and spanner
- Delivered with an inspection report
- (3100-T3) 3pcs in 1 set, plastic box
- (3100-T4) 4pcs in 1 set, plastic box
- (3100-T6) 6pcs in 1 set, Aluminum box



Art No.	Range	Reading	Content	Standard	Barcode
3100-T3	0-75 mm	0.01mm	0-25mm\25-50mm\50-75mm	DIN 863	6974804573340
3100-T4	0-100 mm	0.01mm	0-25mm\25-50mm\50-75mm\75-100mm	DIN 863	6974804573357
3100-T6	0-150 mm	0.01mm	0-25mm\25-50mm\50-75mm\75-100mm\100- 125mm\125-150mm	DIN 863	6972727953591

Outside micrometers

G



Description

- Accuracy according to DIN863,With adjusting key
- With ratchet friction thimble,Carbide measuring face
- Frame painted, scale chromed finished
- From size 25-50mm including setting gauge
- Delivery in cardbox with inspection certificate

Overall dimension(mm)

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

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	75-100mm	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

Micrometer with interchangeable anvils



G



Description and Function

- Painted framed, with ratchet friction thimble and thimble chrome finished
- With exchangeable anvils
- With carbide measuring faces
- Spindle $\phi 8.0\text{mm}$
- 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 micrometers



Description

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

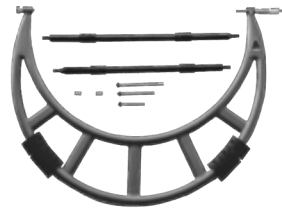
Art No.	Range	Reading	Accuracy error	Barcode
217-5646	0-25mm	0.001mm	0.004mm	6971570715646
217-5653	25-50mm	0.001mm	0.004mm	6971570715653
217-5660	50-75mm	0.001mm	0.005mm	6971570715660
217-5677	75-100mm	0.001mm	0.005mm	6971570715677
217-5684	0-1"	0.0001" inch	0.00015" inch	6971570715684
217-5691	1-2"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

Outside micrometer with interchangeable anvils

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Description

- With ratchet friction thimble
- Carbide measuring face
- Interchangeable anvils 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

Outside micrometer with adjustable anvils

Description

- Larger OD measurement range available
- Various anvils for different measuring ranges
- Alloy measuring faces
- Ratchet friction thimble,Insulation plate
- Light tube frame
- Delivered with standard setting rods
- Delivered with a manual,Wooden box



Art No.	Range	Reading	Indication error	Standard	Barcode
3121-400	300-400 mm	0.01mm	0.011mm	Enterprise	6974804574507
3121-500	400-500 mm	0.01mm	0.013mm	Enterprise	6974804574514
3121-600	500-600 mm	0.01mm	0.015mm	Enterprise	6974804574521
3121-700	600-700 mm	0.01mm	0.016mm	Enterprise	6974804574538
3121-800	700-800 mm	0.01mm	0.018mm	Enterprise	6974804574545
3121-900	800-900 mm	0.01mm	0.020mm	Enterprise	6974804574552
3121-1000	900-1000 mm	0.01mm	0.020mm	Enterprise	6974804574569

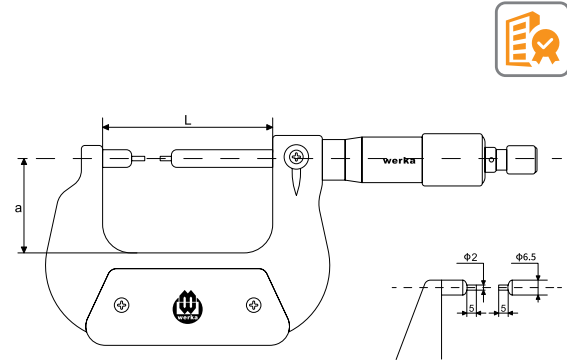
Small tip micrometer



Description

- Suitable for the measurement of spline and small groves etc.
- measuring rod diameter 2mm
- Painted frame,Insulation plate,With a spanner
- Metal locking mechanism
- Delivered with a manual,Plastic box

Art No.	Range	Reading	Indication error	Standard	Barcode
3122-025A	0-25 mm	0.01mm	0.004mm	Enterprise	6974804574316
3122-050A	25-50 mm	0.01mm	0.004mm	Enterprise	6974804574323
3122-075A	50-75 mm	0.01mm	0.005mm	Enterprise	6974804574330
3122-100A	75-100 mm	0.01mm	0.005mm	Enterprise	6974804574347



Overall dimension(mm)

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

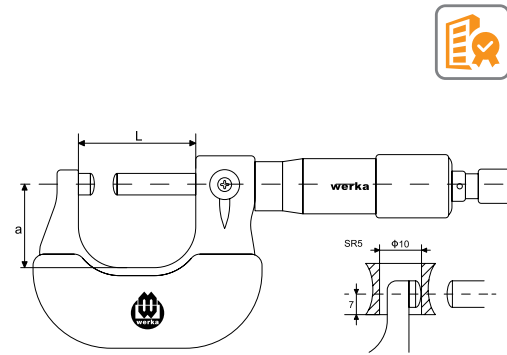
Tube micrometer



Description

- Suitable for the measurement of tube thickness and special-shaped parts
- SR5 Carbide spherical measuring face
- Painted frame,Insulation plate,With a spanner
- Metal locking mechanism
- Delivered with a manual,Plastic box

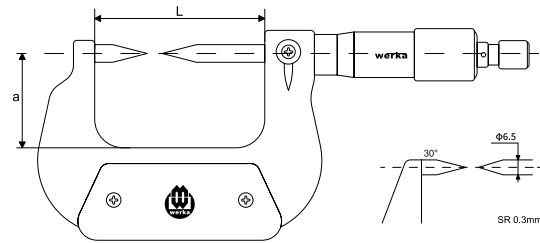
Art No.	Range	Reading	Indication error	Standard	Barcode
3123-025N	0-25 mm	0.01mm	0.004mm	Enterprise	6974804574354
3123-050N	25-50 mm	0.01mm	0.004mm	Enterprise	6974804574361
3123-075N	50-75 mm	0.01mm	0.005mm	Enterprise	6974804574378
3123-100N	75-100 mm	0.01mm	0.005mm	Enterprise	6974804574385



Overall dimension(mm)

	L	a
0-25	32	24
25-50	57	32
50-75	82	44.5
75-100	107	57

Point micrometer



Description

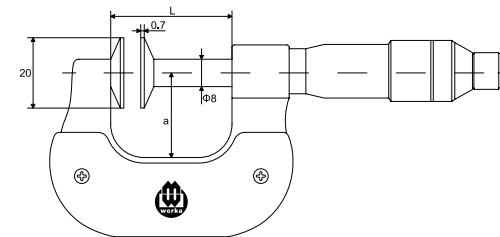
- Suitable for drills, grooves and hard-to-reach dimensions
- Carbide point anvil, angle 30°
- Painted frame, Insulation plate, With a spanner
- Metal locking mechanism
- Delivered with a manual, Plastic box

Overall dimension(mm)

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

Art No.	Range	Reading	Indication error	Standard	Barcode
3114-25	0-25 mm	0.01mm	0.004mm	Enterprise	6974804574392
3114-50	25-50 mm	0.01mm	0.004mm	Enterprise	6974804574408
3114-75	50-75 mm	0.01mm	0.005mm	Enterprise	6974804574415
3114-100	75-100 mm	0.01mm	0.005mm	Enterprise	6974804574422

Disk micrometers



Description

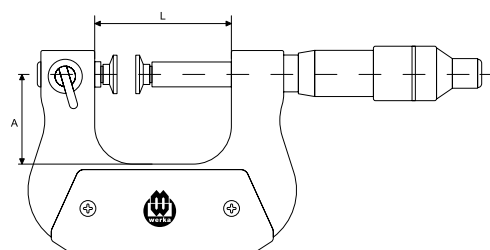
- Non-rotating spindle $\phi 8\text{mm}$
- Painted frame, thimble chrome finished
- Ratchet friction thimble
- Accuracy to manufacturer standard
- Deliver in cardbox

Overall dimension(mm)

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

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

Universal micrometers



Description

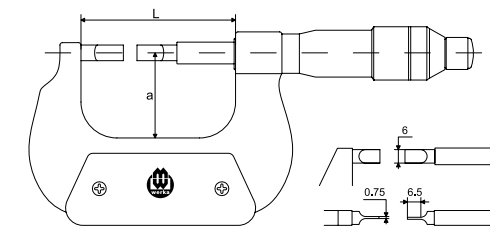
- With 7 pairs interchangeable inserts with $\phi 5\text{mm}$ shaft
- Non-rotating spindle $\phi 6.5\text{mm}$
- Painted frame, thimble chrome finished
- Accuracy to manufacturer standard
- From size 25-50mm including setting gauge
- Ratchet friction thimble, Deliver in cardbox

Overall dimension(mm)

	L	a
0-25	42	26
25-50	67	38
50-75	92	50
75-100	117.6	62

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

Blade micrometers



Description

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

Overall dimension(mm)

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

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

Thread micrometer

G



Description

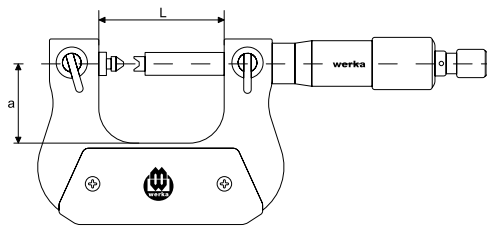
- Suitable for pitch diameter measurement
- A standard 60°V-shaped and a conical anvil (Metric thread)
- Painted frame,Insulation plate,With a spanner
- Engineering plastic locking mechanism
- Delivered with a manual,Plastic box

Art No.	Range	Reading	Indication error	Standard	Barcode
3115-25	0-25 mm	0.01mm	0.004mm	Enterprise	6972727952945
3115-50	25-50 mm	0.01mm	0.004mm	Enterprise	6974804574439
3115-75	50-75 mm	0.01mm	0.005mm	Enterprise	6974804574446
3115-100	75-100 mm	0.01mm	0.005mm	Enterprise	6974804574453

Anvils(standard)

- Metric thread, tooth form 60°

WP-3115-6001	0.4-0.5mm/64-48TPI
WP-3115-6002	0.6-0.9mm/44-28TPI
WP-3115-6003	1-1.75mm/24-14TPI
WP-3115-6004	2-3mm/13-9TPI
WP-3115-6005	3.5-5mm/8-5TPI
WP-3115-6006	5.5-7mm/4.5-3.5TPI



Overall dimension(mm)

	L	a
0-25	42	26
25-50	67	38
50-75	92	50
75-100	117.6	62

Anvils (Optional)

- Whitworth thread,tooth form 55°

WP-3115-5501	60-48TPI
WP-3115-5502	48-40TPI
WP-3115-5503	40-32TPI
WP-3115-5504	32-24TPI
WP-3115-5505	24-18TPI
WP-3115-5506	18-14TPI
WP-3115-5507	14-10TPI
WP-3115-5508	10-7TPI
WP-3115-5509	7-4.5TPI
WP-3115-5510	4.5-3.5TPI

Deep arch micrometer

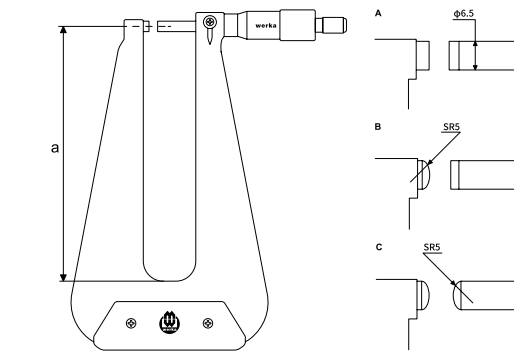


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Description

- Suitable for the thickness measurement of gears and sheet metal etc.
- Deep arch frame,Painted frame
- With insulation plate,Ratchet friction thimble



- Metal locking mechanism
- Delivered with an inspection report
- Wooden box

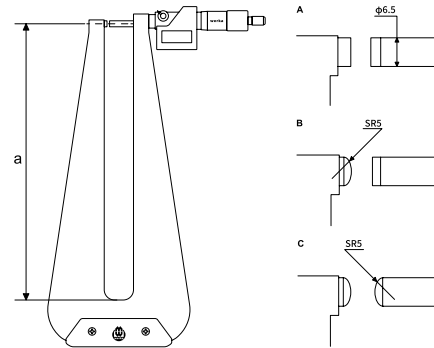
Art No.	Range	Reading	Arch Depth(a)	Anvil	Barcode
3120-1525A	0-25 mm	0.01mm	150mm	Type A	6974804571575
3120-1525B	0-25 mm	0.01mm	150mm	Type B	6974804571582
3120-3025B	0-25 mm	0.01mm	300mm	Type B	6974804571605
3120-1525C	0-25 mm	0.01mm	150mm	Type C	6974804571599

IP65 digital deep arch micrometer



Description

- Suitable for the thickness measurement of gears and sheet metal etc. Protection IP65
- Deep arch frame,Painted frame
- With insulation plate,Ratchet friction thimble
- Metal locking mechanism
- Delivered with an inspection report and a manual
- a 3V battery,Wooden box
- ON/OFF,ABS/INC,Reset at any position
- mm/inch,Data transmission



Art No.	Range	Reading	Arch Depth(a)	Anvil	Barcode
3216-1525A	0-25 mm	0.001mm	150mm	Type A	6974804571612
3216-1525B	0-25 mm	0.001mm	150mm	Type B	6974804571629
3216-3025B	0-25 mm	0.001mm	300mm	Type B	6974804571643
3216-1525C	0-25 mm	0.001mm	150mm	Type C	6974804571636



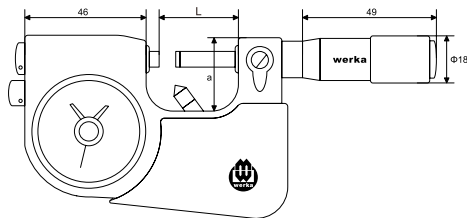
Lever micrometer



Description

- Suitable for mass and quick measurement
- Carbide measuring face, measuring rod 6.5mm
- Quick movement device
- with parts supporting device
- Painted frame, Insulation plate
- Scale range $\pm 0.04\text{mm}$, reading 0.001mm
- With a spanner
- Engineering plastic locking mechanism
- Delivered with a manual, Plastic box

Art No.	Range	Reading	Indication error	Standard	Barcode
3124-025	0-25 mm	0.01mm	0.003mm	Enterprise	6974804574460
3124-050	25-50 mm	0.01mm	0.003mm	Enterprise	6974804574477
3124-075	50-75 mm	0.01mm	0.003mm	Enterprise	6974804574484
3124-100	75-100 mm	0.01mm	0.003mm	Enterprise	6974804574491



Overall dimension(mm)

	L	a
0-25	28.5	19
25-50	53.5	30
50-75	78.5	45
75-100	103.5	57

Can edge micrometer



Description

- Suitable for any kind of Can edge measurements

Art No.	Range	Reading	Barcode
3112-13	0-13 mm	0.01mm	6974804571551

Wire micrometer

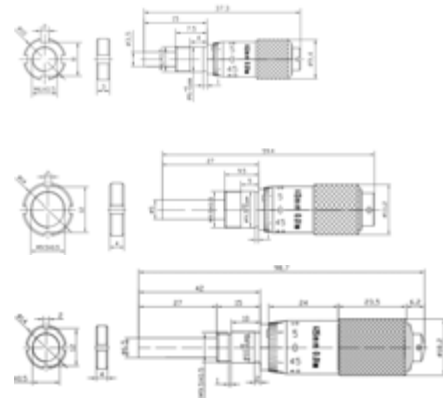
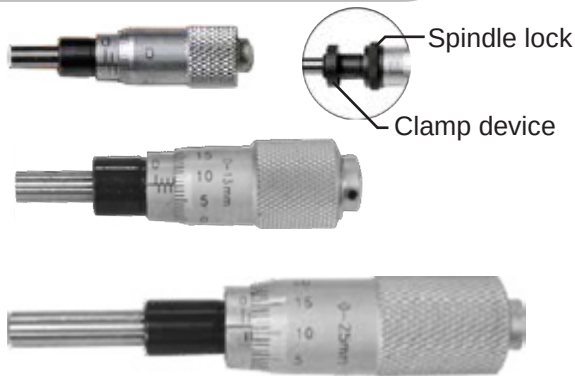


Description

- Suitable for any kind of wire or ball diameter measurement etc.
- Alloy measuring face

Art No.	Range	Reading	Barcode
3112-110	0-10 mm	0.01mm	6974804571544

Micrometer heads



Art No.	Range	Reading	Indication error	Spindle tip	NetWeight	Barcode
3127-006	0-6.5 mm	0.01mm	0.04 mm	Flat		6974804574224
3127-006M	0-6.5 mm	0.01mm	0.04 mm	Flat with clamp nut		6974804574231
3127-013	0-13 mm	0.01mm	0.04 mm	Flat		6974804574248
3217-013M	0-13 mm	0.01mm	0.04 mm	Flat with clamp nut		6974804574255
3127-025	0-25 mm	0.01mm	0.04 mm	Flat		6974804574262
3127-025M	0-25 mm	0.01mm	0.04 mm	Flat with clamp nut		6974804574279
3127-025MS	0-25 mm	0.01mm	0.04 mm	Flat with clamp nut		6974804574286

Micrometer stand



Description

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



Art No.	Barcode
217-6858	6971570716858

Micrometer measuring force detector

Description

- With extension rod,for outside micrometers (0-25/25-50/50-75/75-100mm)
- Measuring force 5-12N



Art.No	Range	Barcode
3128-01	0-100mm	6974804579083

Digital outside micrometers IP54



Description

- 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



Description

- 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



Description

- 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



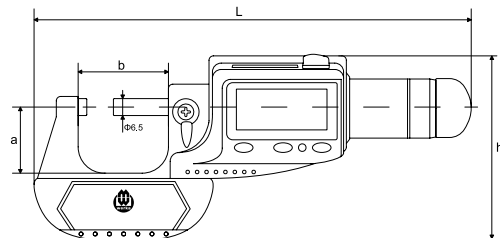
Art No.	Range	Reading	Accuracy error	Barcode
217-5929	0-25mm/0-1"	0.001mm/0.00005"	0.003mm	6971570715929
217-5936	25-50mm/1-2"	0.001mm/0.00005"	0.003mm	6971570715936
217-5943	50-75mm/2-3"	0.001mm/0.00005"	0.004mm	6971570715943
217-5950	75-100mm/3-4"	0.001mm/0.00005"	0.004mm	6971570715950
217-5967	100-125mm/4-5"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

Digital outside micrometers IP65



Description

- 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



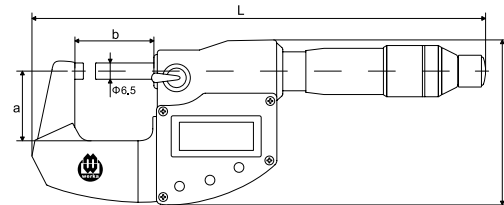
Overall dimension(mm)

	L	a	b	h
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

- 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

Digital outside micrometers IP65



Description

- 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

Overall dimension(mm)

	L	a	b	h
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

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

Digital tube thickness micrometers

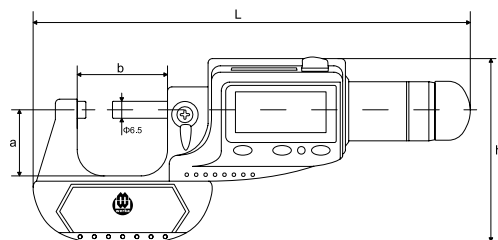
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Description

- 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



Overall dimension(mm)

	L	a	b	h
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 point micrometers



Description

- 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



Description

- 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 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
217-6186	0-20mm/0-0.8"	0.001mm/0.00005"	0.003mm	6971570716186

Inside micrometers(Single rod)



Description

- 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 set

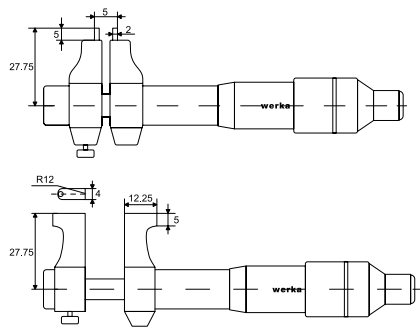


Description

- Suitable for internal diameter measurement for big sizes
- Extension rods, Painted rods
- With setting rings, With spanners
- Delivered with a manual, Wooden box
- Error: $(3+n+L/50)\mu\text{m}$, n = the number of rods, L = Max length to be measured

Art No.	Range	Reading	Standard	Barcode
3110-063	50-63 mm	0.01mm	Enterprise	6972727957018
3110-1501	50-150 mm	0.01mm	Enterprise	6972727957025
3110-2501	50-250 mm	0.01mm	Enterprise	6972727957964
3110-3001	50-300 mm	0.01mm	Enterprise	6972727957032
3110-5001	50-500 mm	0.01mm	Enterprise	6972727957049
3110-6001	50-600 mm	0.01mm	Enterprise	6972727957971
3110-1000	50-1000 mm	0.01mm	Enterprise	6972727957056
3110-1500	50-1500 mm	0.01mm	Enterprise	6972727957063

Internal micrometer



Description

- 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



Description

- For blind hole, Satin chrome finished
- With carbide measuring points from 12mm
- 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 ring ϕ	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
217-3036	100-125 mm	112.5 mm	145 mm	150 mm	0.5 mm	6974804573036
217-3142	125-150 mm	137.5 mm	145 mm	150 mm	0.5 mm	6974804573142
217-3159	150-175 mm	162.5 mm	145 mm	150 mm	0.5 mm	6974804573159
217-3166	175-200 mm	187.5 mm	145 mm	150 mm	0.5 mm	6974804573166
217-3173	200-225 mm	212.5 mm	145 mm	150 mm	0.5 mm	6974804573173
217-3180	225-250 mm	237.5 mm	145 mm	150 mm	0.5 mm	6974804573180
217-3197	250-275 mm	262.5 mm	145 mm	150 mm	0.5 mm	6974804573197
217-3203	275-300 mm	287.5 mm	145 mm	150 mm	0.5 mm	6974804573203

Art No.	Range	Setting ring ϕ	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



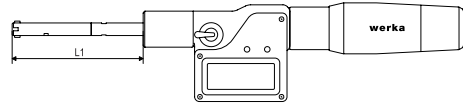
Description

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

Art No.	Range	Setting ringø	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 ringø	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



Description

- 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 ringø	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
217-3210	100-125 mm/4-5"	100 mm	150 mm	150 mm	0.5 mm	6974804573210
217-3227	125-150 mm/5-6"	150 mm	150 mm	150 mm	0.5 mm	6974804573227
217-3234	150-175 mm/6-7"	150 mm	150 mm	150 mm	0.5 mm	6974804573234
217-3241	175-200 mm/7-8"	200 mm	150 mm	150 mm	0.5 mm	6974804573241
217-3258	200-225 mm/8-9"	200 mm	150 mm	150 mm	0.5 mm	6974804573258
217-3265	225-250 mm/9-10"	250 mm	150 mm	150 mm	0.5 mm	6974804573265
217-3272	250-275 mm/10-11"	250 mm	150 mm	150 mm	0.5 mm	6974804573272
217-3289	275-300 mm/11-12"	275 mm	150 mm	150 mm	0.5 mm	6974804573289

Digital three point internal micrometers set

Art No.	Range	Setting ringø	Extension rods	Measuring tips	Barcode
217-4187	6-12 mm/(3pcs)	6/8/10 mm	100 mm	1.5 mm	6974804574187
217-4194	12-20 mm/(2pcs)	16 mm	150 mm	0.5 mm	6974804574194
217-3043	20-50 mm/(4pcs)	25/40 mm	150 mm	0.5 mm	6974804573043
217-3050	50-100 mm/(4pcs)	62/87 mm	150 mm	0.5 mm	6974804573050

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



Description

- 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



Description

- 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



Description

- Made in Germany, High quality carton
- 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



Art No.	Range	Tolerance	Barcode
4112-290	18-290mm	2µm	6972727953607
4112-510	160-510mm	2µm	6972727957070

Bore gauge probes



Description

- Steel and ceramic probes available

Art.No.	Qty per set	Size(mm)	Material	Applicable bore gauge	Barcode
WP-220-BG01	9pcs	6/6.5/7/7.5/8/8.5/9/9.5/10	Steel	6-10mm	6974804571742
WP-220-BG02	9pcs	10/11/12/13/14/15/16/17/18	Steel	10-18mm	6974804571759
WP-220-BG03	9pcs	18/20/22/24/26/28/30/32/34	Steel	18-35mm	6974804571766
WP-220-BG04	4pcs	35/40/45/50	Steel	35-50mm	6974804571773
WP-220-BG05	12pcs	50/55/60/65/70/75/80/85/90/95/100/105	Steel	50-160mm	6974804571780
WP-220-BG06	5pcs	160/170/180/190/200	Steel	160-250mm	6974804571797
WP-220-BG07	5pcs	250/260/270/280/290	Steel	250-450mm	6974804571803
WP-220-BG02C	9pcs	10/11/12/13/14/15/16/17/18	Ceramic	10-18mm	6974804571810
WP-220-BG03C	9pcs	18/20/22/24/26/28/30/32/34	Ceramic	18-35mm	6974804571827
WP-220-BG04C	4pcs	35/40/45/50	Ceramic	35-50mm	6974804571834
WP-220-BG05C	12pcs	50/55/60/65/70/75/80/85/90/95/100/105	Ceramic	50-160mm	6974804571841
WP-220-BG06C	5pcs	160/170/180/190/200	Ceramic	160-250mm	6974804571858
WP-220-BG07C	5pcs	250/260/270/280/290	Ceramic	250-450mm	6974804571865

Telescoping gauge set

Description

- 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

Description

- Made in Germany,With scale ring and vernier
- For profile measurement, inner diameter measurement of cylinder and oval-shaped objects
- 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

Circumference Measuring Tape

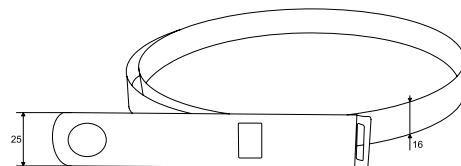


G



Description

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



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

Digital radius gauge



Description

- Suitable for internal and external arc radius measurement
- Super large LCD display
- With 5 sets of measuring jaws for different arc radiuses
- Auto power off,3V CR2032 battery
- Delivered with a manual,Fancy plastic box
- Delivered with a warranty card
- ON/OFF,Reset,mm/inch,data locking
- calibration,Menus

Art.No.	Range	Scale	Standard	Barcode
5124-RG1	5-910 mm	0.005 mm	Enterprise	6974804571728

DIGITAL INDICATOR

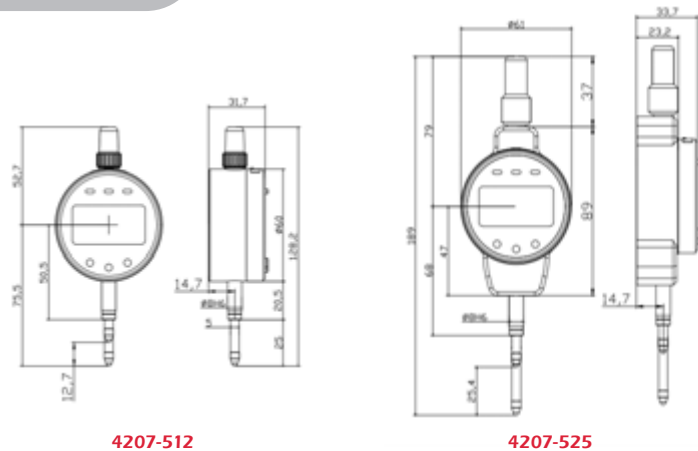
HIGH PRECISION DIGITAL INDICATOR

HIGH PRECISION DIGITAL INDICATOR WITH BT

HIGH PRECISION DIGITAL COMPARATOR

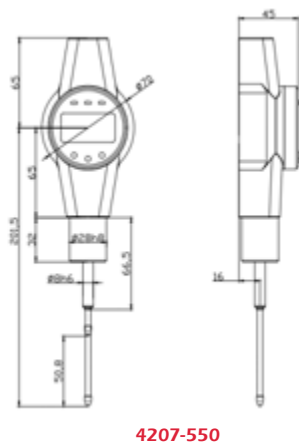


High precision digital indicator



4207-512

4207-525



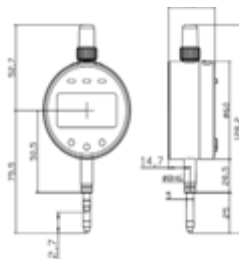
4207-550

Description

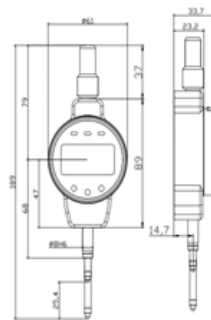
- According to GB/T18761
- Large display,clear reading
- ABS encoding grating measuring sytem, up to micrometer
- With data output,Built-in rechargeable battery
- With flat cover,stem ϕ 8h6
- Adapter
- Delivered with a manual
- Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset,Data transmission

Art.No.	Range	Resolution	Accuracy	Hysteresis error	Barcode
4207-512	0-12.7 mm	0.0005 mm	0.003 mm	0.0015 mm	6974804570479
4207-525	0-25.4 mm	0.0005 mm	0.003 mm	0.0015 mm	6974804570486
4207-550	0-50.8 mm	0.0005 mm	0.003 mm	0.0015 mm	6974804570493

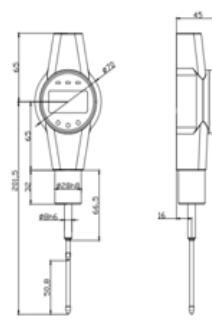
High precision digital indicator with BT



4208-512BT



4208-525BT



4208-550BT

Description

- According to GB/T18761
- Large display,clear reading
- ABS encoding grating measuring sytem, up to micrometer
- Built-in bluetooth 5.0 module to make wireless data transmission available
- Built-in rechargeable battery
- With flat cover,stem ϕ 8h6
- Adapter
- Delivered with a manual
- Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset,Data transmission
- Data locking,Menu modes

Smart software and mobile phone APP

- Easy to install
- A couple of indicators can work at the same time
- To control and operate it via APP
- To collect and analyze data via PC software
- Suitable for more application scenarios

Art.No.	Range	Resolution	Accuracy	Hysteresis error	Barcode
4208-512BT	0-12.7 mm	0.0005 mm	0.003 mm	0.0015 mm	6974804570509
4208-525BT	0-25.4 mm	0.0005 mm	0.003 mm	0.0015 mm	6974804570516
4208-550BT	0-50.8 mm	0.0005 mm	0.003 mm	0.0015 mm	6974804570523



Menus conversion

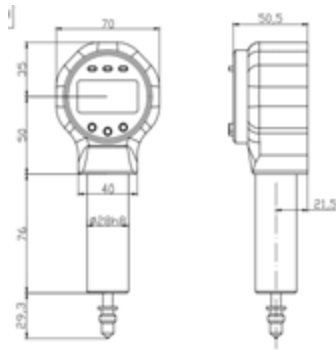
- F0=Normal measuring mode
- F1=Relative/Absolute measuring mode
- F2=mm/inch
- F3=Preset
- F4=Extreme value measuring mode
- F5=Tolerance setting - base value
- F6=Tolerance setting - lower limit
- F7=Tolerance setting - upper limit
- F8= Counting direction setting
- F9=Auto POWER OFF setting

Bluetooth

- Bluetooth 5.0
- Lower power consumption, compatible with old versions
- Wider coverage,Accurate positioning
- Transmission speed 2-4 times faster

High precision digital comparator

H



Description

- GB/T18761 According to GB/T18761
- Large display,clear reading
- ABD encoding grating measuring sytem, up to micrometer
- (4107-051、 4107-052) W/O Bluetooth module; cable connection to transmit data
- (4107-051W、 4107-052W) Built-in bluetooth module to make wireless data transmission available
- Built-in rechargeable battery
- With flat cover, stem Φ 28h8
- Adapter
- Delivered with a manual
- Delivered with an inspection report
- Fancy plastic box
- ON/FF,Reset
- Data transmission,Data locking,Menu modes

Smart software and mobile phone APP

- Easy to install
- A couple of indicators can work at the same time
- To control and operate it via APP
- To collect and analyze data via PC software
- Suitable for more application scenarios

Menus conversion

- F0=Normal measuring mode
- F1=Relative/Absolute measuring mode
- F2=mm/inch
- F3=Preset
- F4= Extreme value measuring mode
- F5=Tolerance setting - base value
- F6=Tolerance setting - lower limit
- F7=Tolerance setting - upper limit
- F8=Counting direction setting
- F9=Auto POWER OFF setting

Bluetooth

- Bluetooth 5.0
- Lower power consumption, compatible with old versions
- Wider coverage
- Transmission speed 2-4 times faster
- Accurate positioning

Art.No.	Range	Resolution	Accuracy	Hysteresis error	Bar code	
4107-051	0-5 mm	0.0001 mm	0.0005 mm	0.0002 mm	6974804573449	
4107-051W	0-5 mm	0.0001 mm	0.0005 mm	0.0002 mm	6974804573456	with bluetooth
4107-052	0-5 mm	0.0002 mm	0.0014 mm	0.0006 mm	6974804573425	
4107-052W	0-5 mm	0.0002 mm	0.0014 mm	0.0006 mm	6974804573432	with bluetooth

INDICATOR

DIAL INDICATOR

•

DIGITAL INDICATOR

•

DIAL TEST INDICATOR

•

CLAMPING HOLDER

•

THICKNESS GAUGE

•

MAGNETIC STAND

•

PRECISION COMPARATOR STAND

•

MEASURING TOOLS SET

•

WERKA DATA OUTPUT CABLES

•

•

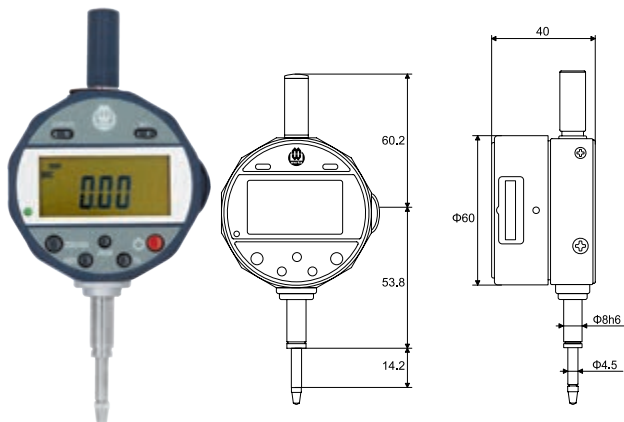
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Digital indicator



Description

- 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



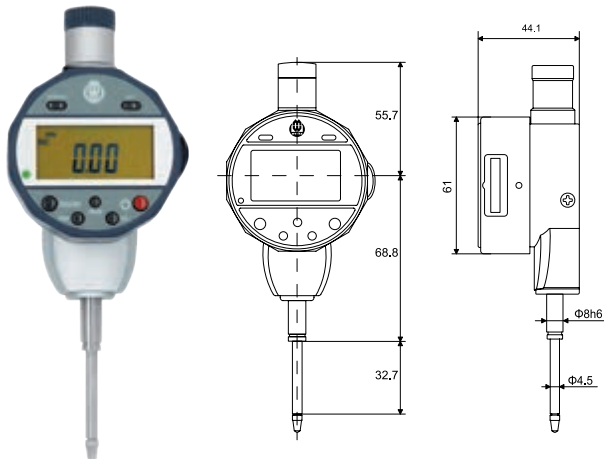
Art No.	Range	Reading	Accuracy error	Barcode
221-8128	0-12.7mm/0-0.5"	0.01mm/0.0005"	0.01mm	6971570718128

Digital indicator



Description

- 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



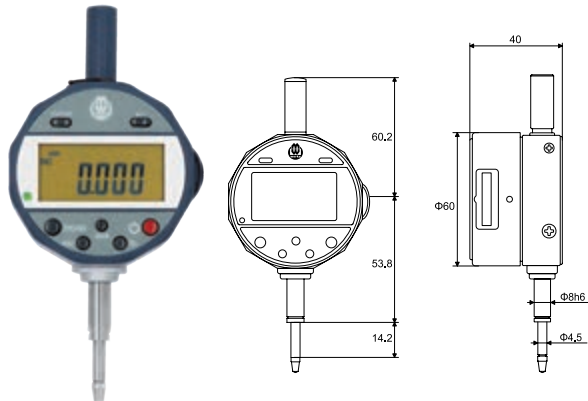
Art No.	Range	Reading	Accuracy error	Barcode
221-8135	0-25mm/0-1"	0.01mm/0.0005"	0.01mm	6971570718135

Digital indicator



Description

- 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



Description

- 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



Description

- 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, With USB data output
- Absolute and relative measurement, data preset
- With USB data output
- Buttons: in/mm, ABS, ZERO/ON, T, M
- Packed in plastic box with 3V CR2032 battery
- Flat back, 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



Description

- 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

Electronic probe



Description

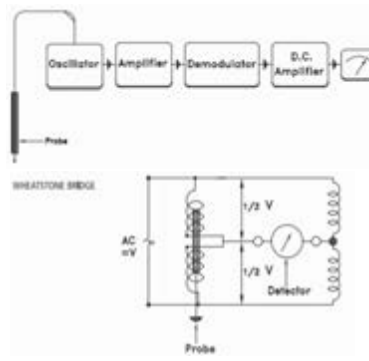
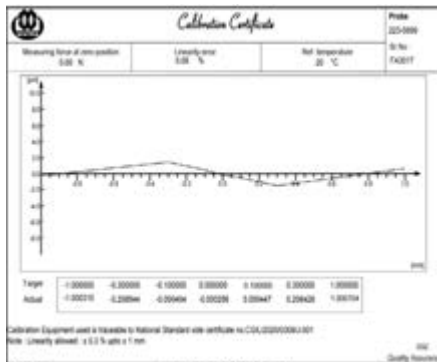
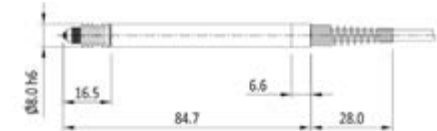
- Suitable for such sectors as manufacturing, automotive, semiconductor and printing
- Manufacturing sector: Equipment assembly and fitness measurement, workpiece chuck position measurement
- Metal processing: Bearing assembly measurement, online inspection for parts etc.
- Automobile parts: flatness inspection for engine cylinders, vibration testing for camshafts etc.
- Semiconductor: flatness inspection for LCD panels, wafer thickness testing etc.
- Hardened and ground stainless steel, Dia.8h6
- Hard carbide tips
- With cable supporting spring
- Delivered with an inspection report
- Plastic box

Art.No.	223-0899
Bar code	6974804570899
Range	$\pm 1\text{ mm}$
Linearity	$\pm 0.3\%$
Repeatability	$0.02\mu\text{m}$
Measuring force	0.6 N
Protection	IP64
Cable	2 m
Connector	5PINs
Total length	112 mm
Contact tip	Tungsten carbide ball, Dia $\varnothing 3\text{mm}$ - Thread M2.5



Feature

- High precision operation guaranteed for all the range
- Capable of resisting water, dust and oil in various applications
- Hard tips, more durable.
- Easy to fit and use.

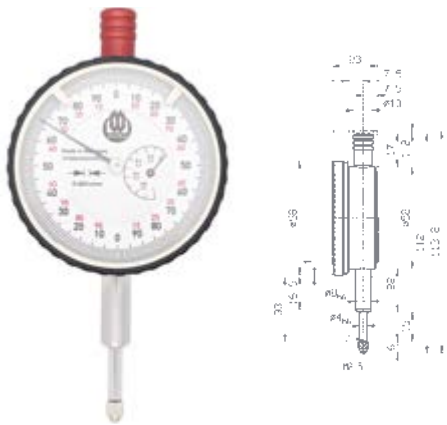


Shock-proof Dial Indicator



Description

- 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



Description

- 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



Description

- Reading 0.001mm
- Metal casing
- Inside Tolerance markers
- Stem ø8mm 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



Description

- DIN878
- Metal casing
- Inside Tolerance markers
- Stem ø8mm 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



Description

- Economic type
- Metal casing
- Inside Tolerance markers
- Stem ø8mm h6
- With flat back and one lug back as accessory
- Deliver with certificate



Art No.	Range	Reading	Bezel Dia.	Barcode
4101-15E	0-10mm	0.01mm	58mm	6974804571476

Dial indicator



Description

- 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

Dial indicator



Description

- 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
220-8879	0-20mm	0.01mm	58mm	8mm	6972727958879
220-6988	0-30mm	0.01mm	58mm	8mm	6971570716988
220-6995	0-50mm	0.01mm	58mm	8mm	6971570716995

Inch dial indicator



Description

- 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 Test Indicator



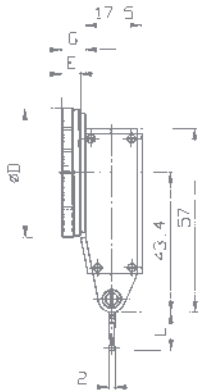
Description

- 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
- Probe turning angle:240°,Probe length:12.8mm
- Attachment: a 8mm clamp holder, a spanner (for probe replacement)
- Bidirectional measurements, Incl. test certificate



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

Dial Test Indicator



Description

- 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,Incl. test certificate
- Probe turning angle:240°,Probe length:12.8mm
- Attachment: a 8mm clamp holder, a spanner (for probe replacement)

Overall dimension(mm)

G	E	L	D
7.5	6.0	12	40

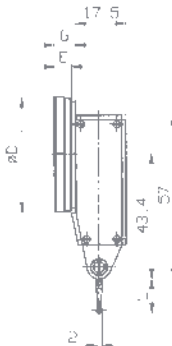
Art No.	Range	Reading	Diameter	Barcode
223-30040	0-0.2mm	0.002mm	40mm	6972727957759

Dial Test Indicator



Description

- 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



Overall dimension(mm)

G	E	L	D
7.1	5.6	12	32

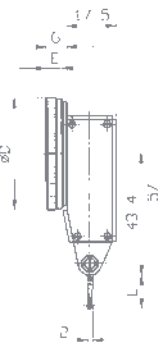
Art No.	Range	Reading	Diameter	Barcode
223-30025	0-0.8mm	0.01mm	32mm	6972727957728

Long Probe Dial Test Indicator



Description

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



Overall dimension(mm)

G	E	L	D
7.1	5.6	35	32

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

Dial test indicators

Description

- High performance of magnetic proof because of high quality brass main body
- Jeweled bearing for high sensitivity and long life
- Carbide contact point ø2mm for long life
- 230° big turning range of stylus
- Total 3 dovetails for fixing attachments
- Supply with accessories: clamping stems ø6mm and ø8mm
- 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	0-0.2mm	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

Description

- High performance of magnetic proof because of high quality brass main body
- Jeweled bearing for high sensitivity and long life
- Carbide contact point ø0.08" for long life
- 230° big turning range of stylus
- Total 3 dovetails for fixing attachments
- Supply with accessories: clamping stems ø1/4" and ø3/8"
- 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

Description

- The measuring depth: 30mm
- With standard dial indicator
- Ceramic contact point and anvil ø 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

Description

- 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	±0.05mm	20mm	6972727950248

Thickness gauge

Description

- 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	±0.05mm	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

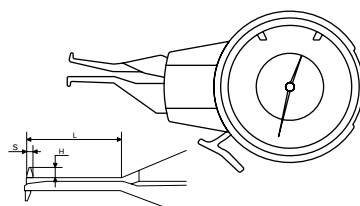
Art No.	Range	Reading	Accuracy error	Barcode
220-0279	0-10mm	0.05mm	±0.1mm	6972727950279

Internal dial snap gauge



Description

- Suitable for ID and inside groove measurement



Overall dimension(mm)

	L	S	H
5-15mm	20	1.0	1.5
5-25mm	35	1	1.5
10-30mm	55	2	3.5
20-40mm	80	3	6.5
30-50mm	80	3	8.5
40-50mm	80	3	8.5

Art No.	Range	Reading	Indication error	Standard	Barcode
4312-015	5-15 mm	0.01mm	0.03mm	Enterprise	6974804571650
4312-025	5-25 mm	0.01mm	0.03mm	Enterprise	6974804571667
4312-030	10-30 mm	0.01mm	0.03mm	Enterprise	6974804571674
4312-040	20-40 mm	0.01mm	0.03mm	Enterprise	6974804571681
4312-050	30-50 mm	0.01mm	0.03mm	Enterprise	6974804571698
4312-060	40-60 mm	0.01mm	0.03mm	Enterprise	6974804571704

Digital thickness gauge

Description

- 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

Description

- 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

Description

- 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
- Horizontal type,Packed in card box



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

Digital thickness gauge

Description

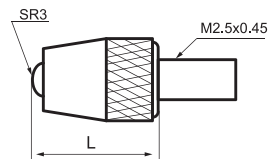
- Be used for measuring small workpieces
- Can measure both external and internal dimensions
- Power On/off, zero setting at any position, mm/inch conversion
- Contact pin ø1.5mm
- Packed in card box



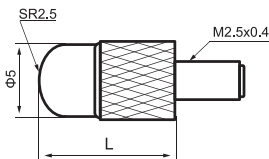
Art No.	Range	Reading	Barcode
214-8791	0-15mm/0.6"	0.01mm/0.0005"	6971570718791
214-8807	0-25mm/1"	0.01mm/0.0005"	6971570718807

Contact Points

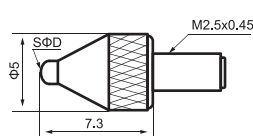
Universal contact points for dial indicators and dial tesat indicators and comparator gauge etc.



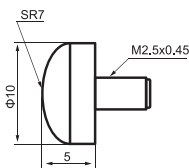
Art No.	Name of contact points	Size(L)
WP-220-CA001	sphere, carbide	7.3mm
WP-220-CA002	sphere, carbide	8.3mm
WP-220-CA003	sphere, carbide	12.1mm
WP-220-CA004	sphere, carbide	14mm
WP-220-CA005	sphere, carbide	15mm
WP-220-CA006	sphere, carbide	17mm
WP-220-CA007	sphere, carbide	19.3mm
WP-220-CA008	sphere,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



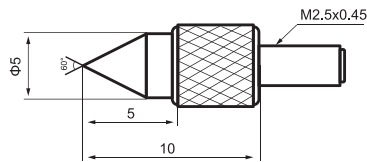
Art No.	Name of contact points	Size(L)
WP-220-CC001	shell, steel	5mm
WP-220-CC002	shell, steel	10mm
WP-220-CC003	shell, steel	15mm
WP-220-CC004	shell, steel	20mm
WP-220-CC005	shell, steel	25mm
WP-220-CC006	shell, steel	30mm



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



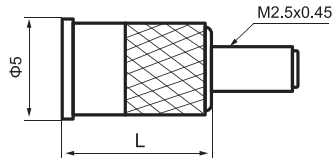
Art No.	Name of contact points	Siz
WP-220-CD01	sphere, steel	Φ 10mm



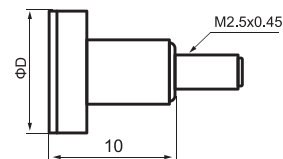
Art No.	Name of contact points	Siz
WP-220-CE01	conical, steel	10x5mm

Contact Points

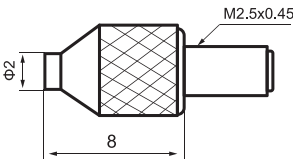
Universal contact points for dial indicators and dial test indicators and comparator gauge etc.



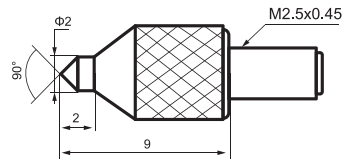
Art No.	Name of contact points	Siz(L)
WP-220-CF001	Flat, steel	8mm
WP-220-CF002	Flat, steel	10mm



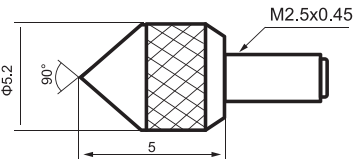
Art No.	Name of contact points	Siz(D)
WP-220-CF101	Flat, steel	Φ 10mm
WP-220-CF102	Flat, steel	Φ 15mm
WP-220-CF103	Flat, steel	Φ 20mm
WP-220-CF104	Flat, steel	Φ 25mm
WP-220-CF105	Flat, steel	Φ 30mm



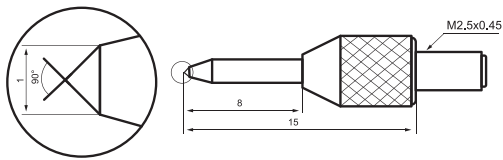
Art No.	Name of contact points	Siz
WP-220-CF201	Flat, steel	8mm



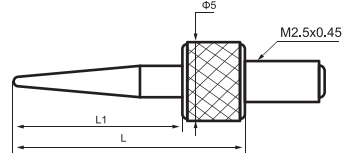
Art No.	Name of contact points	Siz
WP-220-CE02	taper, steel	9mm



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



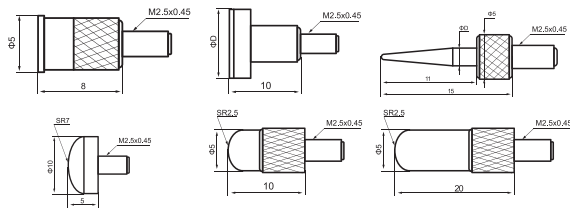
Art No.	Name of contact points	Siz(LxL1)
WP-220-CE04	taper, steel	15x8mm



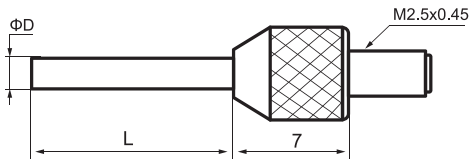
Art No.	Name of contact points	Siz(LxL1)
WP-220-CH01	taper, steel	15x11mm
WP-220-CH02	taper, steel	17x13mm
WP-220-CH03	taper, steel	25x21mm
WP-220-CH04	taper, steel	35x31mm

Contact Points

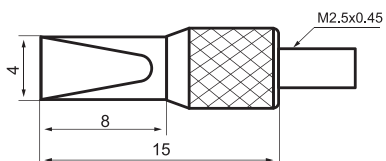
Universal contact points for dial indicators and dial test indicators and comparator gauge etc.



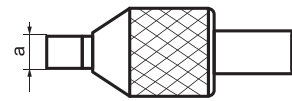
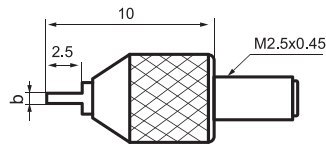
Art No.	Name	contents
WP-220-C0060	Set (6pcs)	flat 5x8mm flat 10x10mm pin 15x11mm sphere 10mm shell 5x10mm shell 5x20mm



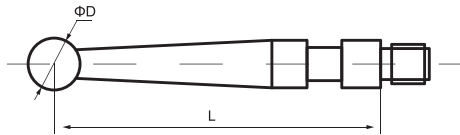
Art No.	Name	Size(DxL)
WP-220-CG001	pin, steel	0.45x3mm
WP-220-CG002	pin, steel	0.45x5mm
WP-220-CG003	pin, carbide	1x3mm
WP-220-CG004	pin, carbide	1x5mm
WP-220-CG005	pin, carbide	1x8mm
WP-220-CG006	pin, carbide	1x10mm
WP-220-CG007	pin, carbide	1x20mm
WP-220-CG008	pin, carbide	1x40mm
WP-220-CG009	pin, 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

Description

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



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

Clamping holder

Description

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

Description

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

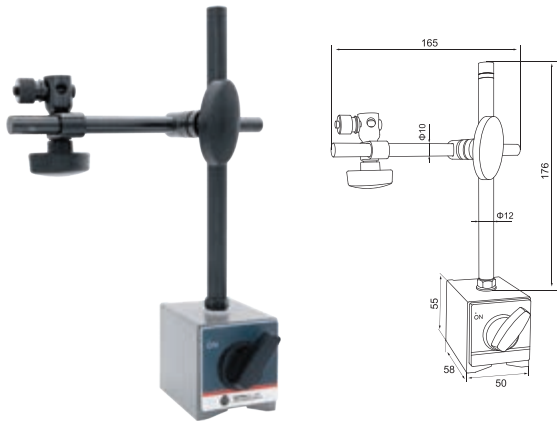


Art No.	Bore φ	Shaft φ	Barcode
220-8296	4mm	8mm	6971570718296
220-8302	5/32"	1/4"	6971570718302

Magnetic stand

Description

- Basic style
- Blackening column, φ12x176mm + φ10x160mm
- Dial indicator shank φ8mm and φ6.5mm
- Prismatic magnetic base with on/off switch
- Packed in cardbox



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

Magnetic stand

Description

- 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

Description

- 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

Magnetic stand

Description

- 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

Universal magnetic stand

Description

- 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

Hydraulic magnetic stand

Description

- Robust hydraulic locking mechanism and adjustable oil pressure
- Blackened shank and arm
- 8mm clamping hole and dovetail with fine adjustment for dial indicators
- Prismatic base with magnetic ON/OFF switch



Art No.	Magnetic force	Base Size	Arm size	Barcode
7137-80	80Kg	60x50x55 mm	350 mm	6972727959111
7137-100	100Kg	73x50x55 mm	350 mm	6972727959128

Universal magnetic stand

Description

- With central mechanical clamping
- Chromed steel arm in 350mm length
- For dial indicators shank ø8mm 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

Description

- TOP quality
- Super locking power
- Blackening arm in 255mm length
- For dial indicators shank ø8mm 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

Description

- Super locking power
- For dial indicators shank ø6mm/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)	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

Description

- 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

Magnetic stand MINI type

Description

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



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

Mini universal magnetic stand

Description

- 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

Magnetic base

Description

- 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

Description

- For all kinds of measuring on granite plates
- With a powerful vacuum base holder
- Steel arm in 280mm length
- For dial indicators shank ø8mm and with dovetail for dial test indicators
- With fine adjustment
- Die casting base
- Packed in cardbox



Art No.	Base(Dia.xH)	Barcode
230-8210	ø90x25mm	6971570718210

Measuring stand

Description

- Round table surface,hardened,grounded and lapped
- With fixed column ø22mm
- With mounting hole 8mm H7
- Measuring range of holder: 100mm
- Cast base,Total height 220mm,Packed in cardbox



Art No.	Working Table	Flatness Of Wrking Table	Verticality Of Pillar Against Table	Barcode
236-2423	ø50mm	0.002mm	0.03mm	6971570712423

Universal dial indicator support

Description

- Chromed steel column,ø14x200mm +ø12x270mm
- With fine adjustment,For dial indicators shank ø8mm
- Steel base with T-groove,Packed in cardbox



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

Measuring stand

Description

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

Description

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



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

Precision comparator stand

Description

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



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

Precision comparator stand

Description

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



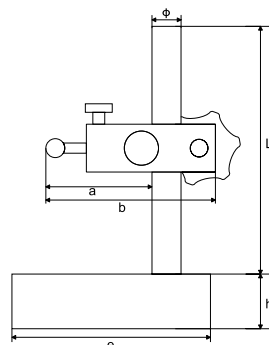
Art No.	Working Table	Flatness Of Wrking Table	Barcode
7132-80	80x80mm	1.5 μ m	6972727951962

Granite precision measuring table



Description

- 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 $\times$ 1.25
- Packaging: Carton



Overall dimension(mm)

	L	a	b	h	e	ϕ
7132-GF150	180	64	121	40	150	22
7132-GF200	250	80	130	50	200	30
7132-GF300	300	97.5	152.5	50	300	35

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

Measuring tools set-3pc/set

Description

- 3pcs/set
- Content:Vernier caliper0-150mm/0-6", reading 0.05mm/1/128",210-0016(1pc); Outside micrometer0-25mm, reading0.01mm,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-2pc/set

Description

- 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



Measuring tools set-3pc/set

Description

- 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-2pc/set

Description

- 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



Measuring tools set-3pc/set

Description

- 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



USB data output cable

Description

- 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

Foot switch

Art No.	Barcode
WP-FS01	6972727950880



Data output cable

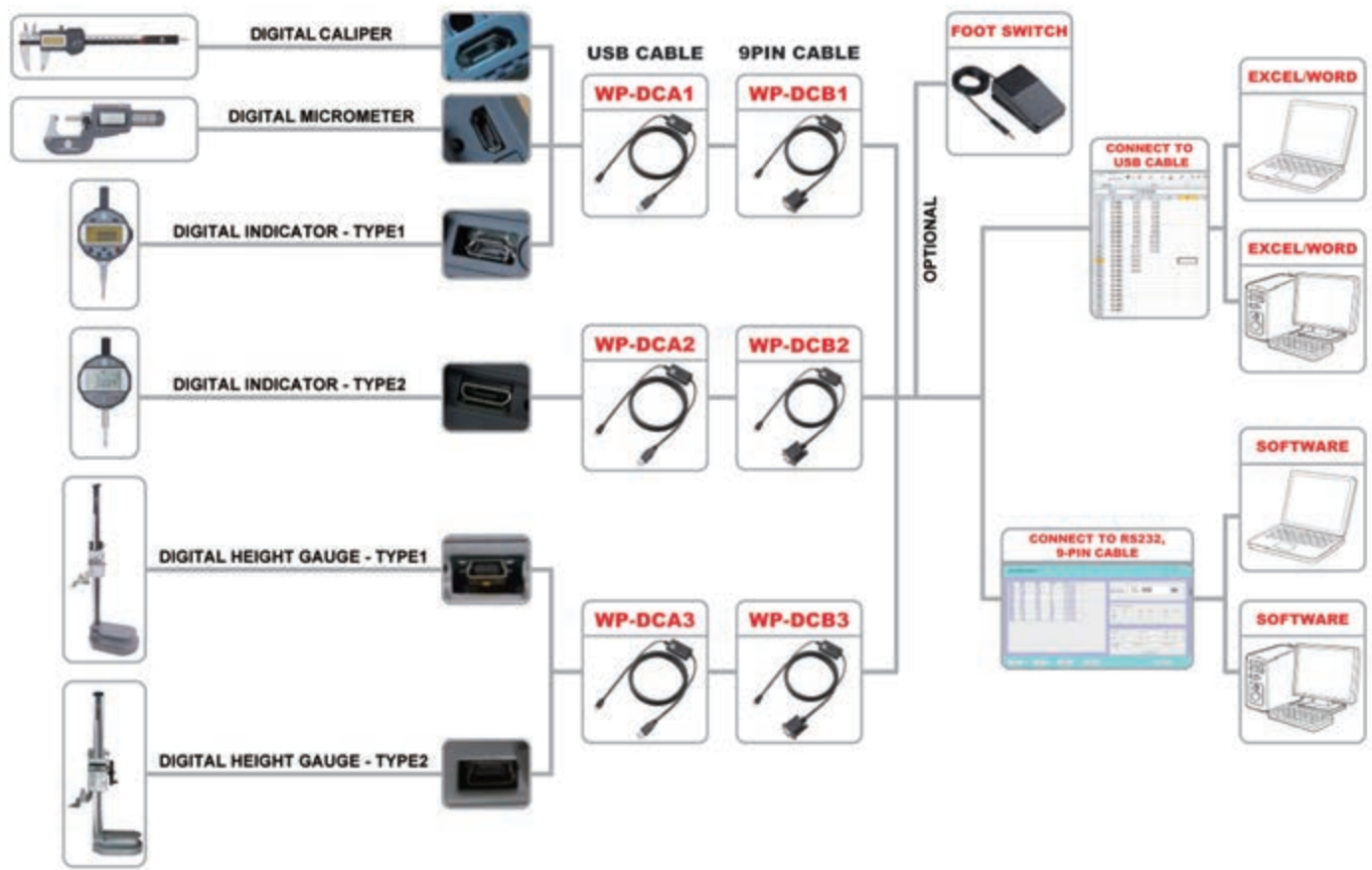
Description

- 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

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

- •
•

Precision granite surface plates



Description

- 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

Description

- 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



Description

- 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



Description

- 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



Description

- For clamping cylindrical pieces and marking purposes
- Made of carbon steel hardened or stainless steel hardened
- With clamm,Accuracy ±0.004mm/100mm
- Pairwise finished,Packed in cardbox



Stainless steel		Carbon steel		Size	For Shaft Dia
Art No.	Barcode	Art No.	Barcode		
236-0382	6971570710382	236-0351	6971570710351	50x40x40mm	ø5-30mm
236-0399	6971570710399	236-0368	6971570710368	75x55x55mm	ø5-30mm
236-0405	6971570710405	236-0375	6971570710375	100x75x75mm	ø7-70mm

Magnetic V-Blocks

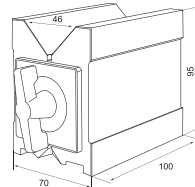
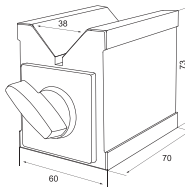
Description

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



230-8258

230-8265



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

Magnetic V-Blocks

Description

- Made from special steel
- Surface hardness HRC55-62
- Sturdy magnetic base with ON/OFF switch
- Accuracy: 0.004mm/ 100mm
- Packed in cardbox



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

X-Vee block pairs



Description

- 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

Description

- 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 parallel sets

Description

- 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 vises



Description

- Made of carburizing steel
- Parallelism: $0.004\text{mm}/100\text{mm}$
- Verticality: $0.005\text{mm}/100\text{mm}$
- 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



Description

- Made in Germany ,2 adjustable tailstocks
- Finely ground surface according to DIN876-2
- Left tailstock to fix the central axis,High quality carton
- 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 : 75mmClamping range of V-shaped groove: 6-24mm(Art. No. 7136-40)



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

Universal Bore Gauge



Description

- 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

Runout Tester with Roller Blocks



Description

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



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

Extensions for Universal Bore Gauge



Description

- 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



WP-4205-05

Description

- Made in Germany,For universal bore gauge

Art. No.	Barcode
WP-4205-05	6972727958725



WP-4205-12

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



Installation Support



Description

- 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

Description

- 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

Description

- Made in Germany,For universal bore gauge

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



Elbow Probes

Description

- Made in Germany,For universal bore gauge

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



Disc Probes

Description

- 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

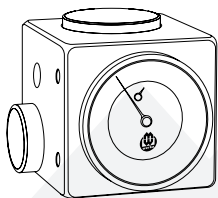


ZERO setting gauge

Description

- Magnetic base

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



Digital tool setting gauge 0-2.5mm

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

Feature:

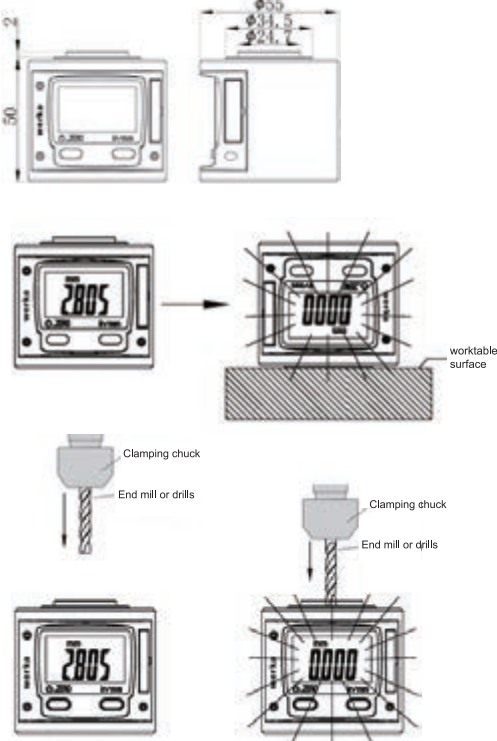
- Inductive measurement system
- LED Display
- Response speed 1.6m/s
- IP65 Protection grade
- Light indicating at "0.000"
- Auto power off,when no operation for 5 minutes
- 3V Lithium battery, low voltage alarm: Display " 



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 powered on and off Zero setting by long press In/mm:Short press for metirc,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 lights 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.

3D Tester with Dial Indicator

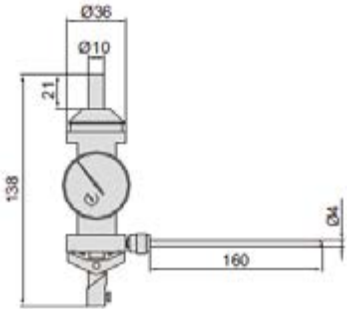
Description

- 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

Centering indicator



Description

- Suitable for the parts installed on drilling and milling machine to be centered in a faster manner
- With tolerance alarming pointers,With a standard pointy probe
- 45mm, 100mm, 154mm With 3 standard internal measuring probes(straight stem)
- 45mm, 100mm, 154mm With 3 standard external measuring probes(curved stem)
- With a standard handle
- Delivered with a manual
- Delivered with a warranty card
- Fancy wooden box

Art.No.	Range	Scale	Indication error	Holder Dia	Bar code
4107-003	0-3 mm	0.01 mm	0.02 mm	10 mm	6972727959562

Electronic ZERO setting gauge

Description

- 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

Description

- 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

Description

- 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.

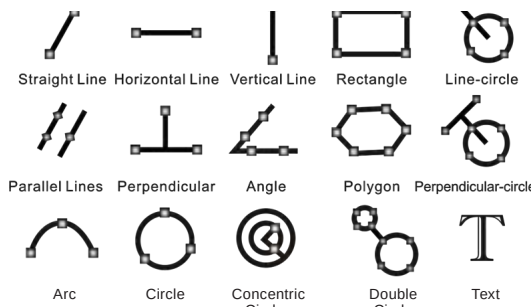
Feature:

- 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.

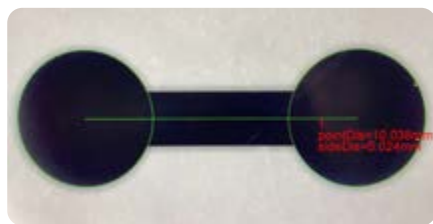
Measurement

Function Introduction:

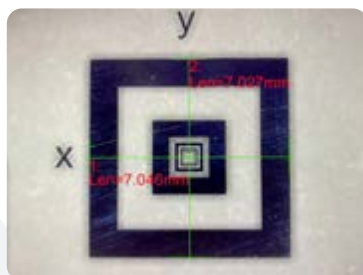
DM-50 can measure straight lines, angles, concentric circles, parallel lines, point-to-line distance, point and line to concentric circles, diameter, circumference and area, length and width of rectangle, and can calculate circumference and area. It can measure the polygon and calculate its area. All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



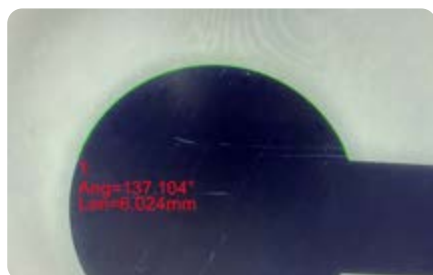
Angle Measurement



Concentric Circles Measurement

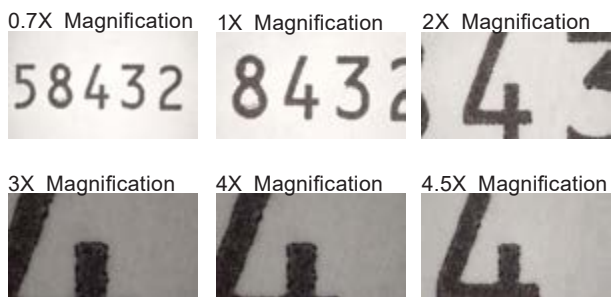


Vertical Line Measurement



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

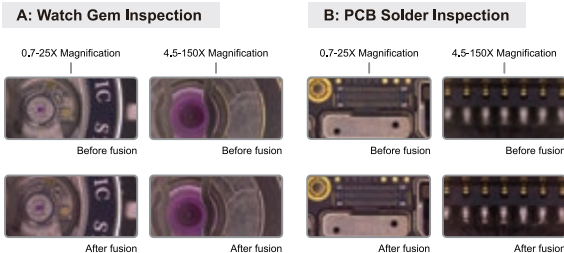
Delivery:

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

Auto focus video measuring microscope

Description

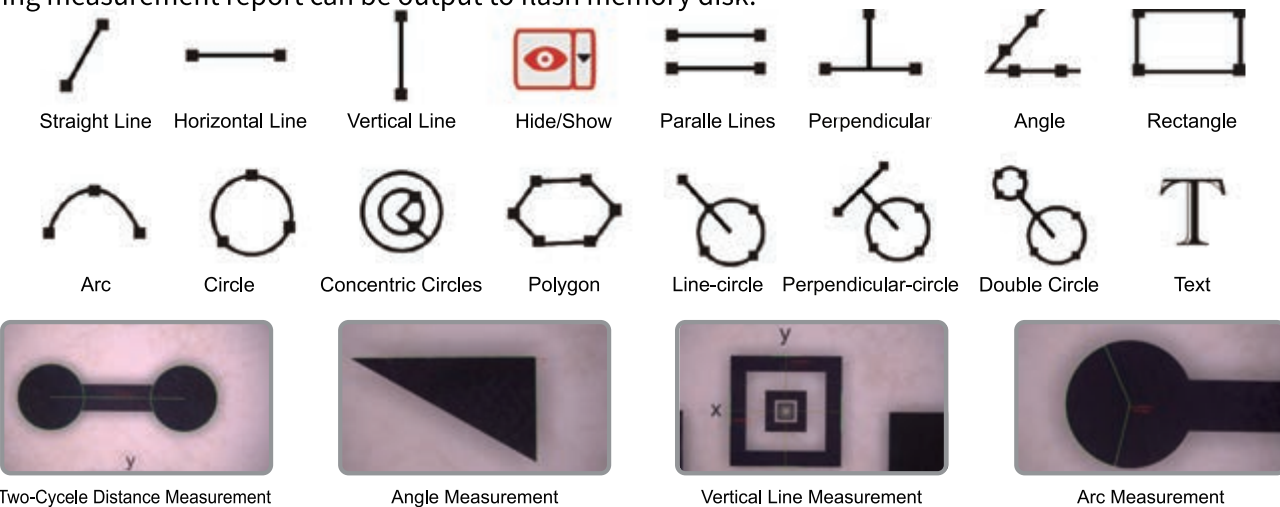
- High depth of field, high definition and high performance
- Integrated design
- Applicable for incoming inspection, production inspection, material research, PCB and textile inspection etc.
- Built-in high-definition HDMI integrated camera connected with the display to take pictures or shoot videos
- 1/2" 2Mpixel high definition auto focus camera
- 0.7-4.5X horizontal zoom lens
- With LED surface reflection illumination to control the brightness independently
- Measuring applications: distance, circle, rectangle, angle, radian and polygon etc.
- Fit with various worktables to make accurate positioning measurement available
- Delivered with a manual Wooden box



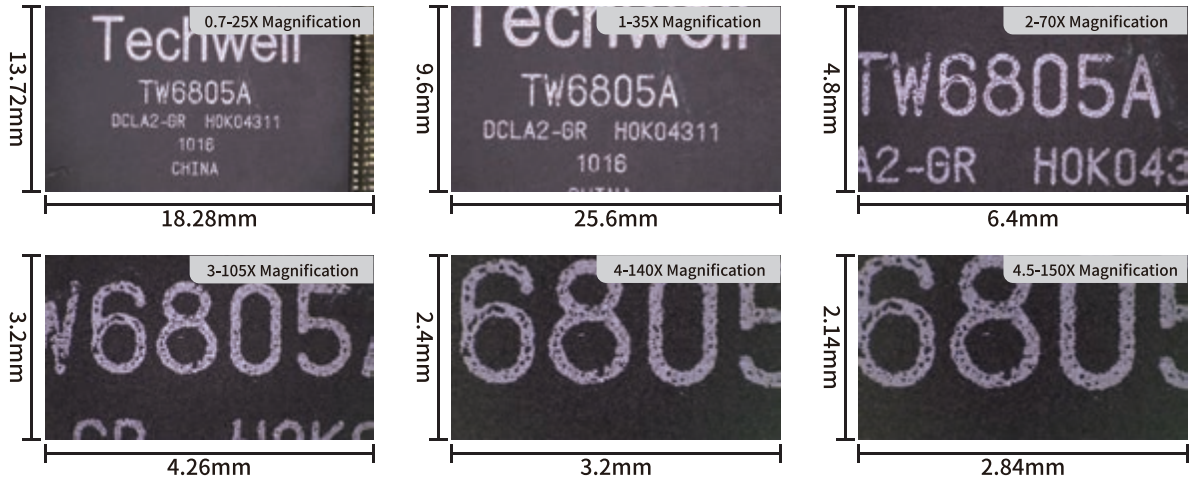
Art.No.	521-2671
Model	DM-70
Electronic magnification	25X~150X (HDMI 16:9 21.5" Display) (Expandable rate 5~3000X)
Optical objective	0.7X - 4.5X zoom lens, zoom ratio: 6.5X
	0.5X C-mount Camera adapter
Camera parameters	2MPixel (1920x1080)
	Image size: 1/2"
	Frames per second: 1080P@60fps
Measuring function	Distance between two points, distance from a point to a line, three point circular, radius, concentric circles, points to a circle, lines to a circle, parallel lines, rectangle, angle, radian and polygon
Save	Image with result or Excel
Method	Operate via the mouse, smart point selection/manual selection
Accuracy	0.003mm - 0.02mm (under different magnification)
Z-axis travel	100 mm
Power supply	AC90 240V/50 60HZ
Size	375x285x500 mm
Weight	6.5 kg

Measurement Function Introduction

DM-70 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 flash memory disk.



Field of View



Magnification Specification

Optical Magnification	Video Magnification	X(mm)	Y(mm)	D(mm)
0.7X/2	25X	18.28	13.72	22.86
1X/2	35X	25.6	9.6	16
2X/2	70X	6.4	4.8	8
3X/2	105X	4.26	3.2	5.34
4X/2	140X	3.2	2.4	4
4.5X/2	150X	2.84	2.14	3.56

Standard Accessories

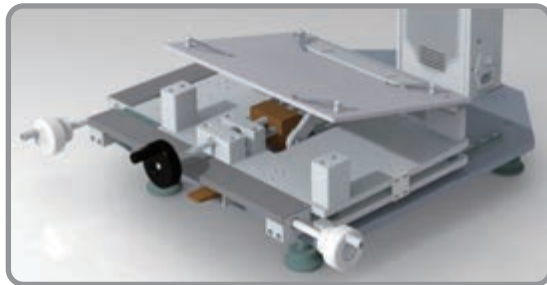
Commodity	Code	Commodity	Specification	Commodity	Specification
Main Body	DM-70	Power Cable	10A	Wireless Mouse	Logi brand
Qualified Certificate	DM-70	HD Cable	HDMI	U disk	16G
Warranty Card	DM-70	Packing list	DM-70	Manual	DM-70

Optional Accessories

Commodity	Code	Commodity	Code
Measuring Table	WP-521-2671-01	0.5X Auxiliary Objective	WP-521-2671-04
HDMI Monitor	WP-521-2671-02	2X Auxiliary Objective	WP-521-2671-05
4-axis Mobile Platform	WP-521-2671-03	1.5X Auxiliary Objective	WP-521-2671-06



Measuring Table



4-axis Mobile Platform



Universal Bracket

Auxiliary Objective			
0.5X (#416-321)	0.7X (#416-331)	1.5X (#416-341)	2X (#416-351)

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	
522-1469	0-32% Brix	0.2% Brix	±0.20%	10°C -30°C	6974804571469	economic type

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×3) NiMH batteries
- Battery status display
- Packed in cardbox



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	10.0~9999.9RPM 0.1RPM ±(0.04%+2)
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:

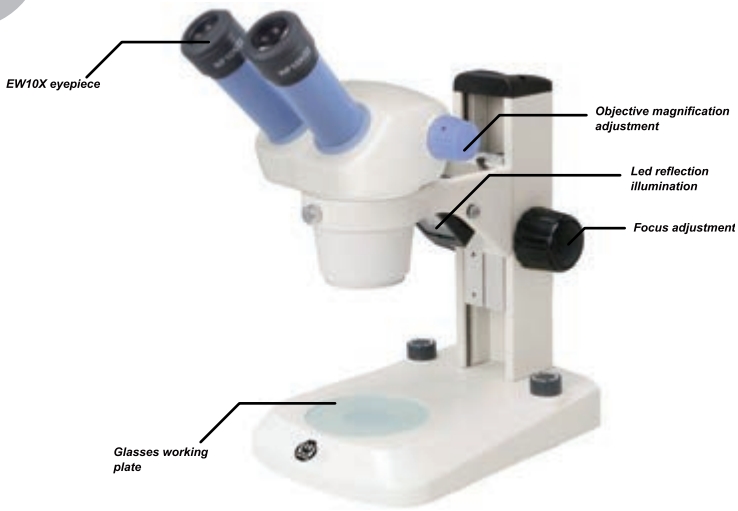
Product Name
Instrument Main Body
Stand with fine adjustment device
CD
Colorbox

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 Φ20mm 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/φ20 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

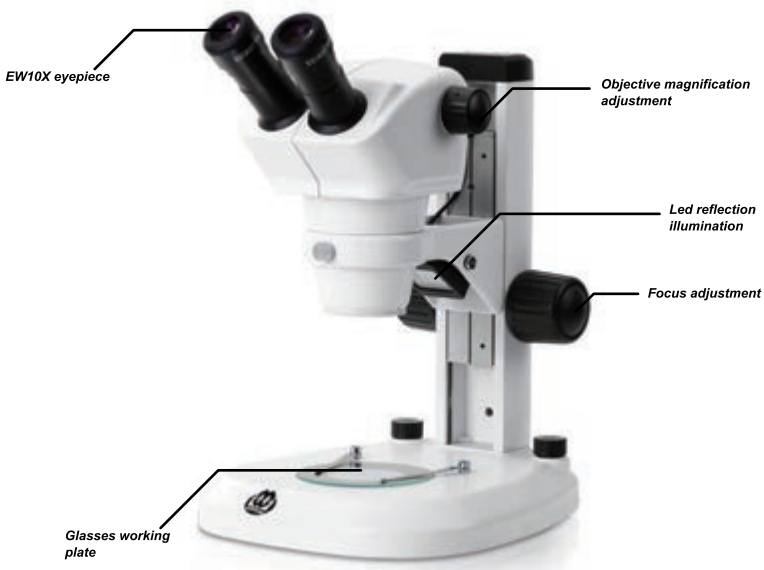
Standard Delivery:

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,objektives 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

3D motorized rotation vedio microscope

Description

- 360°rotation lens,high defination
- Accoding to enterprise standard
- 1080P high-defination 3D image
- Automatic white balance and exposure
- With picture taking and vedio shooting function saved into a flash drive
- Rotation driven by an import DC motor
- 45°view angle
- Step zoom lens 0.7X-4.5X, ratio 6.4: 1
- With an operation software
- 2M Pixel Camera,With a 13" display
- Camera with HDMI port X1 and USB port X2
- With a controller
- With a worktable stand
- Delivered with a manual
- Plastic box



DATA

Art.No.	521-2657
Bar code	6974804572657
Magnification	≈ 25X - 150X
Focus	20 mm
View field	18x3.5 mm
View angle	45°
Camera sensor	1/2" CCD
Pixel	2M
Resolution	1920x1080
Frame rate	60 fps
Port	HDMI
Rotation speed	4RPM
Power	220V/ 50/60Hz
Worktable	320x240 mm
Net weight	

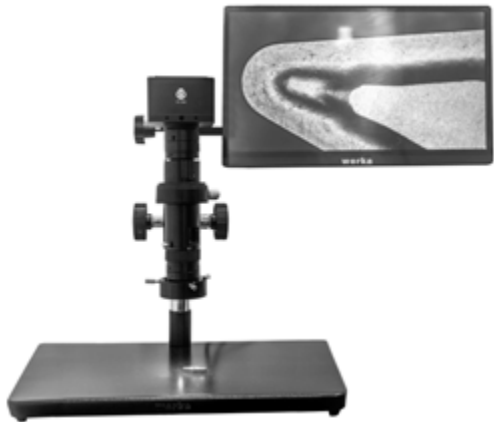
Standard delivery

Name	
Main unit	X 1
13" display	X 1
rotation controller	X 1
worktable	X 1
16G flash drive	X 1
Wireless mouse	X 1
Packing list	X 1
Manual	X 1

Digital measuring microscope with 4k

Description

- 4K megapixel image,large screen
- According to Enterprise standard
- With 4K high-defination camera, up to 8M pixel
- Auto white balance and exposure
- With picture taking and vedio shooting function
- Built-in software with more than 40 measuring applications
- Pictures and videos saved to a flash drive
- Step zoom lens 0.7X-4.5X, ratio 6.4: 1
- With a 15.6" 4K display,Plastic box
- Camera with HDMI port X1 and USB port X2
- LED light source
- With a controller
- With a worktable stand
- Delivered with a manual



DATA

Art.No.	521-2664
Bar code	6974804572664
Magnification	≈ 17.6X - 120X
Camera sensor	1/1.8"CCD
Pixel	8M
Resolution	3840x2160
Frame rate	4K:30fps, 1080P:60 fps
Port	HDMI
Frequency	1GHZ
Power	Adapter
Worktable	570x300 mm
Net weight	
Power	220V/ 50/60Hz
Worktable	320x240 mm
Net weight	

Standard delivery

Name	
Main unit	X 1
15.6" 4K display	X 1
LED lights	X 1
Light controller	X 1
worktable	X 1
16G flash drive	X 1
wireless mouse	X 1
calibration plate	X 1
Packing list	X 1
Manual	X 1

Magnifier with LED lamp

Description

- 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

Description

- 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 T9 22W circular fluorescent tube
- 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

Description

- For magnifying small parts with additional light source
- High-quality lens,Bright illumination with 72 ultra bright LED 5W
- 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,HRE,HRE,HRE,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,HRE,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
Exeution 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
Exeution 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	1/4"Steel Ball Indenter

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.

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



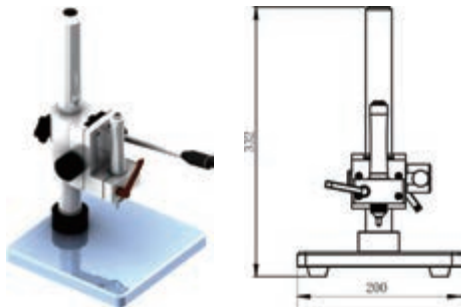
Schematic diagram of indenter of ultrasonic hardness tester



Rockwell hardness block HRC

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℃ ~50℃ Humidity:30%~80%R.H.
Battery Voltage	4.2V
Charge Mode	USB
Dimension	165x85x22mm
Weight	≤500g(probe not included)



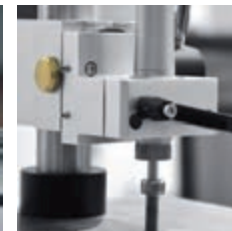
Motorized Probe Feature:

- 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

Display comments:

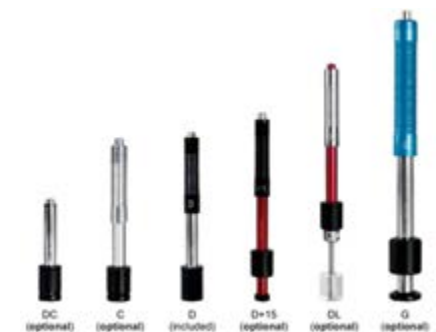


Standard Delivery:

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

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

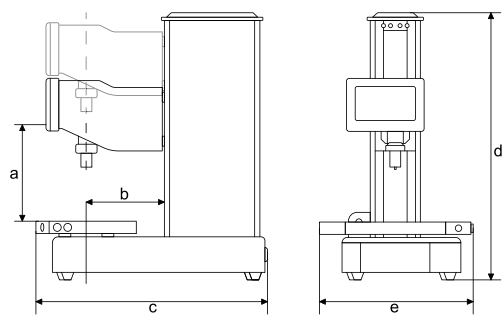
Technical Parameters:

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.

Automatic shore hardness tester



Description

- According to ASTM D2240 , ISO7619-1, GB/T531.1
- Driven by a stepping motor and loaded by spring
- automatic measurement with one-button operation
- 3 probe types available (Type A,Type D and Type OO)
- Test stand available(Optional)
- Both button control and touch screen workable
- Data transmission via USB cable
- Power supply: DC24V 5A
- Operation temperature: -10°C ~ 40°C , 20 ~ 80%RH
- Continuous measurement available
- Integrated base to ensure a stable operation
- Delivered with a manual

Overall dimension(mm)

a	b	c	d	e
160	120	372	419	243.5

Art.No.	Range	Scale	Sliding stroke	Size	Barcode
446-AU05	0-100 H	0.1 H	80 mm	372x243.5x419 mm	6974804574576

Shore durometer

Description

- According to national metrological verification regulation
- According to DIN 53505,ASTM D2240, ISO/R868,JIS R7215
- With peak value indicator(red pointer)
- Test stand available(optional)
- Delivered with a manualPlastic box
- Shore A for low and medium hardness material such as soft rubber, soft plastic, leather
- Shore D for medium hardness and above material such as hard rubber, hard plastic,acrylic plate,fibre



Art.No.	Range	Scale	Indenter Stroke	Size	Net weight	Barcode
446-100A	10-90 HA	1 HA	2.5 mm	115x60x25 mm	160 g	6974804571445
446-100D	10-90 HD	1 HD	2.5 mm	115x60x25 mm	160 g	6974804571452

Digital shore durometer



Description

- According to national metrological verification regulation According to ASTM D2240 , ISO7619-1, GB/T531.1
- Mode: Average,max value, timing etc.
- Data storage, search, printing and upload to PC available
- Test stand (optional),Battery: rechargeable
- 500 memories,wireless printer available
- Delivered with a manual,Plastic box
- Shore A for low and medium hardness material such as soft rubber, soft plastic, leather.
- Shore D for medium hardness and above material such as hard rubber, hard plastic,acrylic plate,fibre.

Art.No.	Range	Scale	Indenter Stroke	Size	Net weight	Barcode
446-110A	0-100 HA	0.1 HA	2.5 mm	150x50x29 mm	170 g	6974804571445
446-110D	0-100 HD	0.1 HD	2.5 mm	150x50x29 mm	170 g	6974804571452

Standard delivery

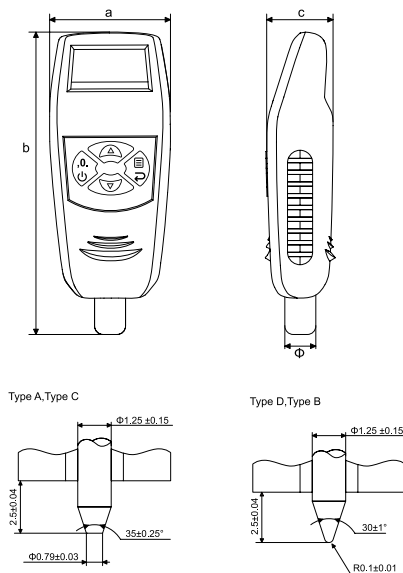
- Main unit
- Calibration block
- USB Cable
- Adapter

Optional

	Art.No.	Description
Type A test stand	WP-446-110A-01	"worktable: Φ 115mm, Stand size: Φ 195x370mm (With Shore A durometer to achieve less deviation)"
Type D test stand	WP-446-110D-01	"worktable: Φ 115mm, Stand size: Φ 195x370mm (With Shore D durometer to achieve less deviation)"

Optional

	Art.No.
Wireless printer	WP-446-110-P20



Overall dimension(mm)

a	b	c	Φ
50.5	150	29	18



Coating thickness gauge

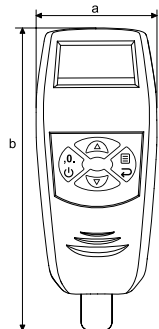
Quick one-hand operation. Place instrument on specimen and see the measured value.

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	0~1250 μ m(0~50 mil)
Resolution	0~999 μ m;0.1 μ m, $\geq$ 1000 μ m;1 μ m
Accuracy error	0~100 μ m: $\pm$ 2 μ m 101~1250 μ m: $\leq$ 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

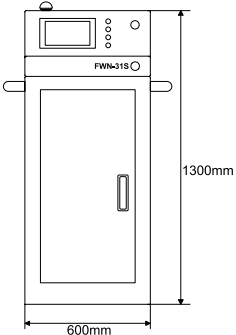


Standard Delivery:

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)



Fwn-31s automatic bearing ring tester



Description

- Suitable for mass testing of ring-shaped parts, automatic sorting, feeding and unloading etc.
- For bearing rings and ring-shaped parts
- To measure OD, ID and thickness etc.
- Auxiliary test: the spherical surface of bearing rings or circular groove processed or not
- Quenched and ground measuring datum
- Carbide tips,THK precision guide
- high precision grating displacement transducer

- PLC control system
- Built-in interfaces such as control,calibration, data monitoring and data management.
- Power: AC Volts 220V±15: Frequency 50HZ
- Air source: 0.4~0.6Mp, Air hoseφ 8mm
- Operation temperature:0°C ~ 40°C
- Humidity <90%RH
- Delivered with a manual



Control interface



Calibration interface



Measurement interface



Data monitoring interface

Art.No.	5280-100
Model	FWN-31S
Range (OD)	φ 30-100 mm
Range(ID)	φ 20-90 mm
Range(thickness)	10-30 mm
Resolution	0.0002 mm
Indication error	±0.005 mm
Repeatability	0.005 mm
Inspecting frequency	3~6s/pcs
Size	600x400x1300 mm
Net weight	≈ 100 KG



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:

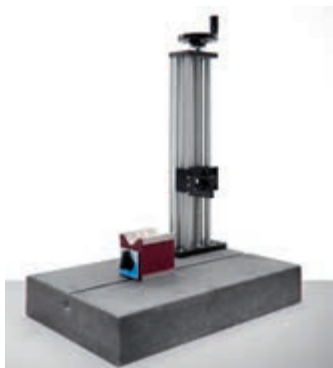
- Split design for flexible use with brackets
- Measuring range up to 160µm
- 3.8in TFT touch screen , clear and direct roughness graphs
- With BT to support wireless connection with smart phone and mini printer
- Big data memory, 100 readings and graphic groups record
- Auto power off
- Premium PCB 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, RPc, 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
Senor	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
Operaing enviroment		temperature: - 20℃ ~40℃ Humidity: < 90% RH
Storage enviroment		temperature: - 40℃ ~60℃ Humidity: < 90% RH

Portable roughness tester



Description

- Suitable for mechanical manufacturing, aerospace and automobile industries etc.
- Integrated design for easy use
- With ARM to control and process data, low power consumption
- Parameters available, Inductive transducer
- Diamond stylus
- With standard transducer (other transducers optional)
- Built-in module makes wireless printing and data transmission available
- To connect PC and printer via USB. And PC software online upgrading available.
- App on mobile phone to control it synchronically
- Built-in Li-ion battery
- Memory of 200 data and waveform
- Expandable Micro SD card, up to 16GB
- Delivered with a manual, Fancy plastic box

Art.No.	490-8923
Bar code	6972727958923
Measuring Range	Ra:0.025-12.5μm
Parameters	Ra, Rz, Ry, Rq, Rt, Rp, Rv, Rmax, R3z, RSk, RS, RSm, Rmr
Displaying range	Ra, Rq:0.005-16μm; Rz, Ry, Rt, Rp, Rv, Rmax, R3z:0.02-160μm; RS, RSm:1mm; Rmr:0-100%(Rt); Rsk:0-100%
Span	±20μm, ±40μm, ±80μm
Resolution	0.001μm
Filter	RC, PC-RC, GAUSS, D-P
Specimen	0.25mm, 0.8mm, 2.5mm
Max driving stroke	17.5mm/0.7inch
Min. driving stroke	1.3mm/0.052inch
Indication error	≤±10%
Indication variation	≤6%
Display	128×64 OLED matrix (self-illumination)
Power supply	Built-in rechargeable Li-ion battery
Size	140mm×52mm×48mm
Weight	440g



Standard delivery



Name	Qty
Main unit	1
standard transducer	1
standard plate	1
testing pad	1
Mini stand	1
Adapter	1
Flash drive (software package)	1
Manual	1
Packing list	1
Certificate	1
Warranty card	1

Optional

	Art.No.
Wireless printer	WP-490-8923-S06
Standard sensor	WP-490-8923-S01
Small hole sensor	WP-490-8923-S02
Deep slot sensor	WP-490-8923-S03
Curvature sensor	WP-490-8923-S04
Groove sensor	WP-490-8923-S05



Standard Sensor



Deep Groove Sensor



Curved Surface Sensor



Small hole Sensor



Extra small hole sensor

Profile projector

Description

- Standard digital profile projector, neat appearance and good reliability
- According to enterprise standard
- Applicable for workpiece direct and comparative measurement



Art No.(inverted image)	5291-1005				5291-1505
Art.No.(erect image)	5291-1005N				5291-1505N
Axis X travel	100 mm				150 mm
Axis Y travel	50 mm				50 mm
Axis Z travel	90 mm(Focusing)				
Glass worktable	175x100 mm				196x96 mm
Metal worktable	306x152 mm				340x152 mm
Resolution(X/Y axis)	0.5μm				
Indication error	$E1XY=(2.5+L/75)\mu m$				$E1XY=(3+L/50)\mu m$
Projector screen	Dia.: 300 mm				
Rotary range	0°-360°				
Resolution	1'/ 0.01°				
Lens	Magnification	10X (Standard)	20X (Optional)	50X (Optional)	100X (Optional)
	Objective view	30 mm	15 mm	6 mm	3 mm
	Working distance	77.7 mm	44.3 mm	38.4 mm	25.3 mm
	Measuring height	80 mm	80 mm	80 mm	80 mm
Power supply	AC 100-240V 50/60Hz				
Total power	400W				
Weight	125 kg				130 kg
Size	770x550x1100 mm				

High precision profile projector

Description

- High precision profile projector, classic design and high performance
- According to Enterprise standard
- Applicable for workpiece direct and comparative measurement in a faster manner
- With a multifunctional data processing meter in an easy way to collect and analyze data
- With a foot switch



Art No.(inverted image)	5291-1510H	5291-2010H	5291-2515H	5291-2919H	5291-4030H
Art.No.(erect image)	5291-1510HN	5291-2010HN	5291-2515HN	5291-2919HN	5291-4030HN
Axis X travel	150 mm	200 mm	250 mm	295 mm	400 mm
Axis Y travel	100 mm	100 mm	150 mm	195 mm	300 mm
Axis Z travel	100 mm(Focusing)				
Glass worktable	210x160 mm	260x160 mm	306x196 mm	320x220 mm	450x350 mm
Metal worktable	354x228 mm	404x228 mm	450x280 mm	500x330 mm	606x466 mm
Resolution(X/Y axis)	0.5μm				
Indication error	$E1XY=(2.5+L/100)\mu m$				
Projector screen	Dia.: 300 mm				
Rotary range	0° -360°				
Resolution	1'/ 0.01°				
Lens	Magnification	10X (Standard)	20X (Optional)	50X (Optional)	100X (Optional)
	Objective view	30 mm	15 mm	6 mm	3 mm
	Working distance	77.7 mm	44.3 mm	38.4 mm	25.3 mm
	Measuring height	90 mm	90 mm	90 mm	90 mm
Power supply	AC 100-240V 50/60Hz				
Total power	400W				
Weight	160 kg	160 kg	180 kg	250 kg	250 kg
Size	780x780x1100 mm	810x780x1120 mm	810x780x1120 mm	900x780x1020 mm	1040x780x1120 mm

300mm high precision profile projector

Description

- High precision profile projector, classic design and high performance
- With a 300mm projector
- According to enterprise standard
- Applicable for workpiece direct and comparative measurement in a faster manner



Art No.(inverted image)	5292-3015		5292-3020	
Art.No.(erect image)	5292-3015N		5292-3020N	
Axis X travel	150 mm		200 mm	
Axis Y travel	100 mm		100 mm	
Axis Z travel	90 mm(Focusing)			
Glass worktable	148x206 mm		148x256 mm	
Metal worktable	258x308 mm		258x358 mm	
Resolution(X/Y axis)	0.5μm			
Indication error	E1XY ≤ (3+L/200)μm			
Projector screen	Dia.: 300 mm			
Rotary range	0° -360°			
Resolution	1' / 0.01°			
Lens	Magnification	10X (Standard)	20X (Optional)	50X (Optional)
	Objective view	30 mm	15 mm	6 mm
	Working distance	80 mm	67.7 mm	51.4 mm
Power supply	AC 100V/60Hz; 220V/50Hz			
Power	150W			
Weight	165 kg		168 kg	
Size	988x563x1157 mm		988x563x1157 mm	

400mm high precision profile projector

Description

- High precision profile projector, classic design and high performance
- With a 400mm projector
- According to enterprise standard
- Applicable for workpiece direct and comparative measurement in a faster manner



Art No.(inverted image)	5292-4020	5292-4025	5292-4030	
Art.No.(erect image)	5292-4020N	5292-4025N	5292-4030N	
Axis X travel	200 mm	250 mm	300 mm	
Axis Y travel	100 mm	150 mm	200 mm	
Axis Z travel	100mm(Focusing)			
Glass worktable	198x306 mm	198x306 mm	356x248 mm	
Metal worktable	308x408 mm	308x408 mm	458x358 mm	
Resolution(X/Y axis)	0.5μm			
Indication error	E1XY ≤ (3+L/200)μm			
Projector screen	直径: 400 mm			
Rotary range	0° -360°			
Resolution	1' / 0.01°			
Lens	Magnification	10X (Standard)	20X (Optional)	50X (Optional)
	Objective view	40 mm	20 mm	8 mm
	Working distance	80 mm	67.7 mm	51.4 mm
Power supply	AC 110V/60Hz; 220V/50Hz			
Power	150W			
Weight	230 kg	230 kg	230 kg	
Size	1003x617x1309 mm	1003x617x1309 mm	1003x617x1309 mm	

Less Error
Within 2um

High Accuracy
≤2.4+L/200 um

High Resolution
700TVL
Color CCD

Measurement
Software
iMeasuring 2.0

2D Movable Vision Measuring Machine

Z-Axis
Adjustment Wheel

LED Reflection Illumination

Working Table

X/Y-axis Adjustment Group

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 2um;
- High precise working stage with 0.5um optical linear scales ensures the accuracy is less than 2.5+L/200um;
- 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 Sytem	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	1.53x1.2x0.9
Working Environmet	Temperature:19~24℃ ,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
≤2.5+L/200 um;

High Resolution
700TVL
Color CCD

Measurement
Softwar

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 CUboard: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;
- Improted 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 0.1μm 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, automic 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:

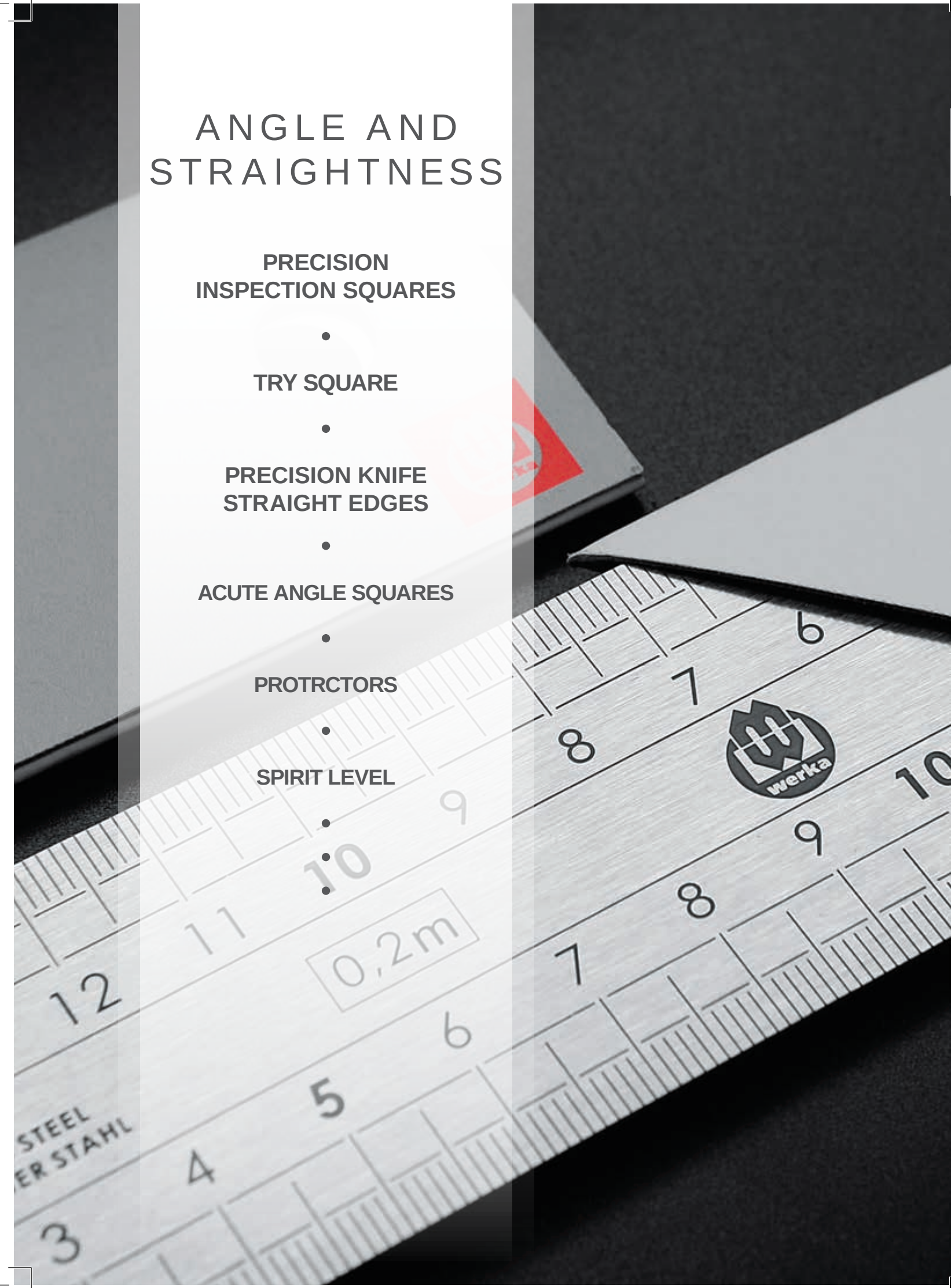
Product Name		
Instrument Main Unit	LED parallel contour illumination	Joystick controller
Full Auto Measuring Software	MCP Probe	Dell PC with 21" Monitor
Controller	1/2" Color Camera	Desk
Imported 0.1μm linear scale	Data cable, AV video cable	Anti-dust Cover
Motorized coaxial zoom lens	Video capture 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 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-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

•

PROTRCTORS

•

SPIRIT LEVEL

•

90°Precision inspection squares



M

Description

- 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

90°Precision inspectionsquares with base

M

Description

- 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
240-0825	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

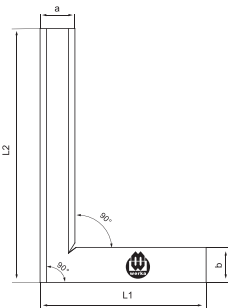
DIN 875/2

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

Description

- 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

90°Square with inside beveled edge

Description

- 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

M

Description

- 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

Description

- 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

Description

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



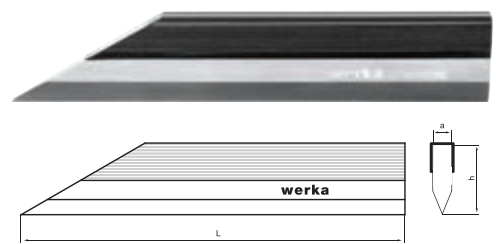
Art No.	Size	Barcode
241-1358	50mm	6971570711358
241-1365	75mm	6971570711365
241-1372	100mm	6971570711372
241-1389	125mm	6971570711389
241-1396	150mm	6971570711396
241-1402	200mm	6971570711402
241-1419	300mm	6971570711419
241-1426	400mm	6971570711426
241-1433	500mm	6971570711433
241-1440	600mm	6971570711440

	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

Precision knife straight edges

Description

- 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°



Description

- 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

Description

- 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°

Description

- 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

Acute angle squares 60° with base

Description

- 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°



Description

- 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 squares135°with base

Description

- 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

Description

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

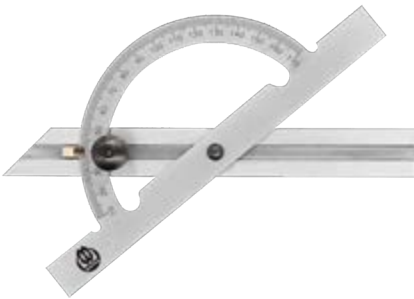


Art No.	Size	Barcode
242-0597	80x120mm	6971570710597
242-0603	120x150mm	6971570710603
242-0610	150x200mm	6971570710610
242-0627	200x300mm	6971570710627
242-0634	300x500mm	6971570710634
242-0641	400x600mm	6971570710641

Protractors

Description

- 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

M

Description

- 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

Description

- 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

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	±0.5mm/m	0.02mm/m	DC3.7V	6972727957391

Vernier protractor

Description

- 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

Description

- 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 ±5'
- Packed in cardbox



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

Digital universal bevel protractors

Description

- 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

Digital protractor

M

Description

- Made of stainless steel
- Scale mm/inch ,reading: 1mm,1/32"
- LCD display,Auto power off
- With locking mechanis,Battery:3V CR2032
- Operation temperature:0°C ~ +50°C
- With hanging holes
- Delivered with a manual,Colorful box
- ON/OFF,Reset



Art No.	Size	Range	Reading	Accuracy	Standard	Barcode
6104-200D	200mm	0-360°	0.1°	0.3°	Enterprise	6972727959609
6104-300D	300mm	0-360°	0.1°	0.3°	Enterprise	6972727959616

Spirit level



Description

- Robust Aluminum body
- 1 horizontal vial and 1 vertical vial
- Measuring face with magnets for metal structure
- Large LCD display easy to read with backlight
- Absolute Zero system
- 0°C ~ +50°C Operation temperature:0°C ~ +50°C
- Size:600mm
- With a hanging hole,Battery: 2 AAA
- Delivered with a manual
- Delivered with a black bag,Carton box
- ON/OFF,Unit:mm/m,%,in/ft,Backlight
- Data locking,Sound setting,Calibration

Art No.	Range	Reading	Indication error	Standard	Barcode
6128-600	360°(4x90°)	0.05°(0°&90°) 0.1°(1°~89°)	0.05°(0°&90°) 0.2°(1°~89°)	Enterprise	6974804571735

Digital inclinometer

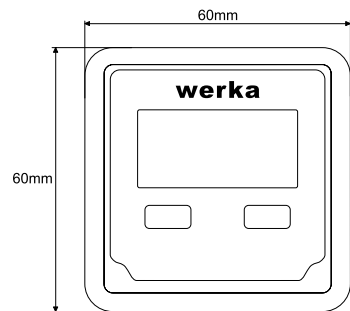
Description

- 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 ±180°, Resolution 0.1°
- Battery: AAA x2, Packed in card box



Art No.	Barcode
242-0719	6971570710719

Digital bevel box



Description

- Suitable for inclination and angle measurement
- Made of Al alloy,With magnets
- Reversed measurement available
- Auto power off,1 AAA battery
- Operation temperature:0°C ~ +50°C
- Delivered with a manual,Colorful box
- ON/OFF,Reset

Art No.	Range	Reading	Accuracy	Standard	Barcode
6103-02	4x90°	0.1°	0.1°	Enterprise	6974804570462

Digital inclinometer

M

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

Combination square

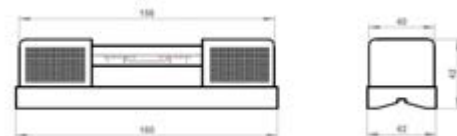
Description

- 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

Spirit level,germany



M

Description

- Made in and originated from Germany
- Accoding to DIN877
- Made of high quality special cast iron, ground prismatic base
- V-groove suitable for shaft or round parts
- One horizontal vial and one vertical vial
- Insulation protection
- Delivered with a manual
- Fancy plastic box



Art.No.	Length	Accuracy	Standard	Barcode
6129-160	160 mm	0.02 mm/m	DIN877	6974804579434
6129-200	200 mm	0.02 mm/m	DIN877	6974804579441
6129-300	300 mm	0.02 mm/m	DIN877	6974804579458

Frame spirit level,germany



Description

- Made in and originated from Germany
- Accoding to DIN877
- Made of high quality special cast iron, ground prismatic base
- V-groove suitable for shaft or round parts
- One horizontal vial and one vertical vial
- Insulation protection (Handle)
- Delivered with a manual,Fancy plastic box

Art.No.	Size	Accuracy	Standard	Barcode
6130-150	150x150 mm	0.02 mm/m	DIN877	6974804579465
6130-200	200x200 mm	0.02 mm/m	DIN877	6974804579472
6130-300	300x300 mm	0.02 mm/m	DIN877	6974804579489

Electronic spirit level,germany



M



Description

- Made in and originated from Germany
- Accoding to DIN877
- Super large display, clearer digit
- Built-in electronic sensors
- Built-in bluetooth module,wireless data tranmission
- Semi-automatic calibration
- Temperature compensation
- APP on mobile phone via bluetooth connection available
- Software operation at PC side via bluetooth connection aivable
- Made of high quality special cast iron, ground prismatic base
- V-groove design for shaft and round parts
- Insulation protection,Delivered with an adapter
- Delivered with a wireless receiver
- Delivered with a manual,Fancy plastic case
- ON/FF,Retset,Unit,Absolute/relative mode,Hold

Art.No.	Length	Accuracy	Standard	Barcode
6131-200	200 mm	0.02 mm/m	DIN877	6974804579502

Electronic frame spirit level,germany



Description

- Made in and originated from Germany
- Accoding to DIN877
- Super large display, clearer digit
- Built-in electronic sensors
- Built-in bluetooth module, wireless data transmission
- Semi-automatic calibration
- Temperature compensation
- APP on mobile phone via bluetooth connection available
- Software operation at PC side via bluetooth connection aivable
- Made of high quality special cast iron, ground prismatic base
- V-groove design for shaft and round parts
- Insulation protection
- Delivered with an adapter
- Delivered with a wireless receiver
- Delivered with a manual
- Fancy plastic case
- ON/FF,Reset,Unit,Absolute/relative mode,Hold

Art.No.	Size	Accuracy	Standard	Barcode
6132-150	150x150 mm	0.02 mm/m	DIN877	6974804579496

Spirit level

Description

- 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

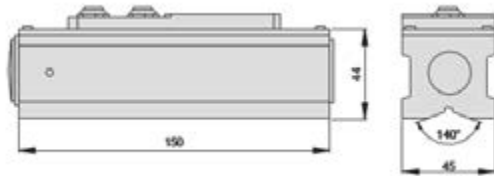
Description

- 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



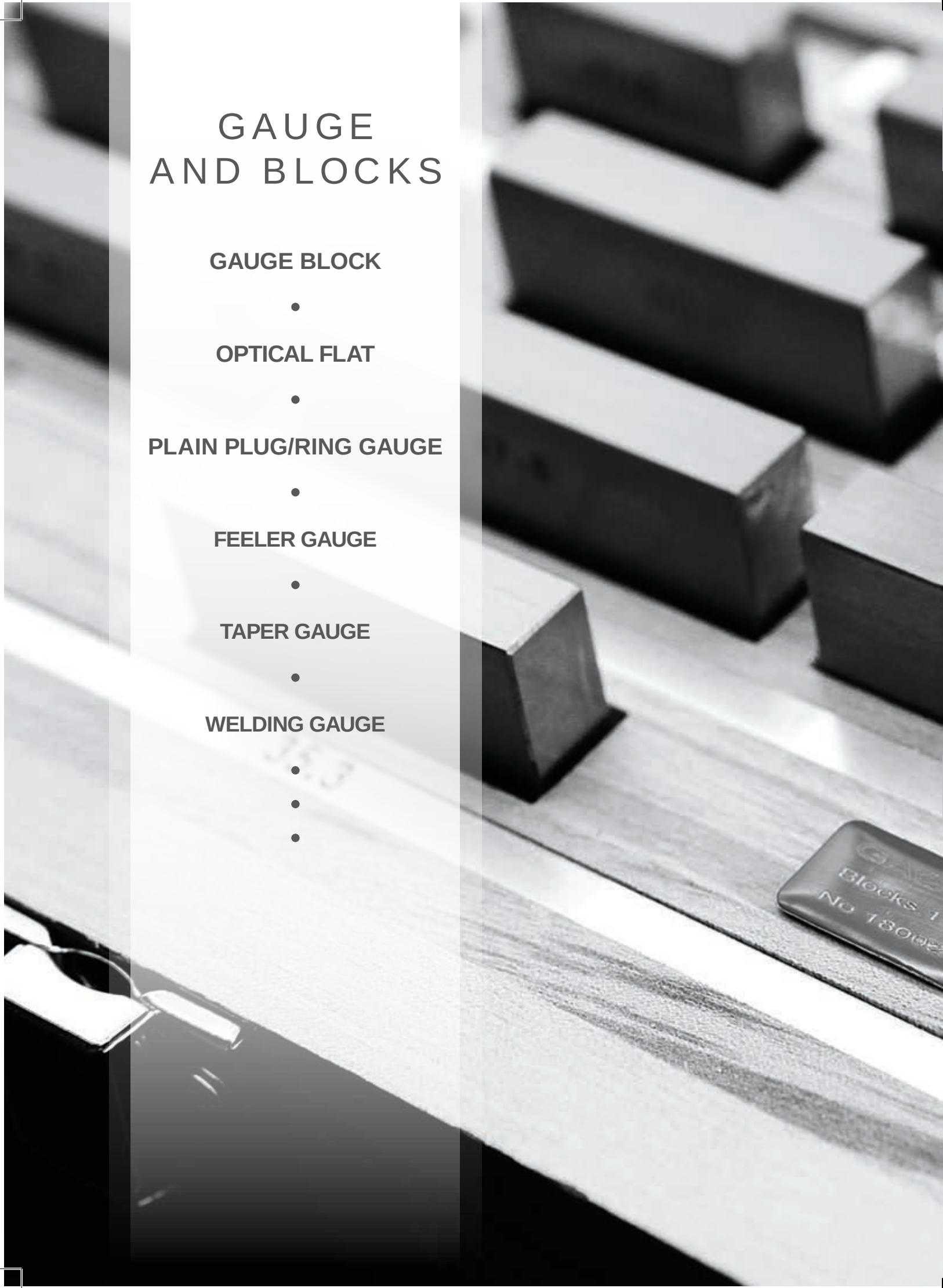
Digital spirit level 50mm/m



Description

- The products are widely used in installation and adjustment of parts and equipment like precision platform, machine tool and CNC and so forth.
- Made of cast iron with V-groove
- Built-in rechargeable battery
- Function button: ON/OFF,ZERO,SAVE/MODE
- Deliver with certificate,Prime plastic box

Art.No	Range	Accuracy	Barcode
6133-1502	50mm/m	0.02mm/m	6974804579113



GAUGE AND BLOCKS

GAUGE BLOCK

•

OPTICAL FLAT

•

PLAIN PLUG/RING GAUGE

•

FEELER GAUGE

•

TAPER GAUGE

•

WELDING GAUGE

•

•

•

Steel gauge block sets



Description

- 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



N

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



Description

- According to GOST 9038-90
- Made from cemented carbide
- With individual certificate
- Packed in wooden box
- Dakks certificate for metric is availablebasis 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



Description

- 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 ≥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
							10-100	10	10
280-5097	6971570715097	280-5103	6971570715103	280-5110	6971570715110	47	1.005	/	1
							1.01 - 1.9	0.01	9
							1.1 - 1.9	0.1	9
							1-24	1	24
280-5127	6971570715127	280-5134	6971570715134	280-5141	6971570715141	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

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



Description

- 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
					10-100	10	10
280-5257	6971570715257	280-5264	6971570715264	47	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



Ceramic Parallel Block Set

Description

- 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
5101-32-C0	6972727958381	5101-32-C1	6972727958398	32	10-100	10	10
					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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Pin gauge set

Description

- Suitable for internal holes comparison measurement, fitting with a handle to make it a GO/NO GO Gauge
- Made of Steel(GCr15)
- Set,Step 0.01mm
- Delivered with an inspection report
- Plastic tube for each pin and a plastic case for the set



Art. No.	Range	Step	Pins per set	Bar code
5128-041-01	0.10-0.50 mm	0.01 mm	41	6974804574606
5128-051-01	0.50-1.00 mm	0.01 mm	51	6974804574613
5128-051-02	1.00-1.50 mm	0.01 mm	51	6974804574620
5128-051-03	1.50-2.00 mm	0.01 mm	51	6974804574637
5128-051-04	2.00-2.50 mm	0.01 mm	51	6974804574644
5128-051-05	2.50-3.00 mm	0.01 mm	51	6974804574651
5128-051-06	3.00-3.50 mm	0.01 mm	51	6974804574668
5128-051-07	3.50-4.00 mm	0.01 mm	51	6974804574675
5128-051-08	4.00-4.50 mm	0.01 mm	51	6974804574682
5128-051-09	4.50-5.00 mm	0.01 mm	51	6974804574699
5128-051-10	5.00-5.50 mm	0.01 mm	51	6974804574705
5128-051-11	5.50-6.00 mm	0.01 mm	51	6974804574712
5128-051-12	6.00-6.50 mm	0.01 mm	51	6974804574729
5128-051-13	6.50-7.00 mm	0.01 mm	51	6974804574736
5128-051-14	7.00-7.50 mm	0.01 mm	51	6974804574743
5128-051-15	7.50-8.00 mm	0.01 mm	51	6974804574750
5128-051-16	8.00-8.50 mm	0.01 mm	51	6974804574767
5128-051-17	8.50-9.00 mm	0.01 mm	51	6974804574774
5128-051-18	9.00-9.50 mm	0.01 mm	51	6974804574781
5128-051-19	9.50-10.00 mm	0.01 mm	51	6974804574798
5128-051-20	10.00-10.50 mm	0.01 mm	51	6974804574804
5128-051-21	10.50-11.00 mm	0.01 mm	51	6974804574811
5128-051-22	11.00-11.50 mm	0.01 mm	51	6974804574828
5128-051-23	11.50-12.00 mm	0.01 mm	51	6974804574835
5128-051-24	12.00-12.50 mm	0.01 mm	51	6974804574842
5128-051-25	12.50-13.00 mm	0.01 mm	51	6974804574859

Precision Measuring Steel Pins

N

Description

- 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

* The single pin is optional for your own combinations:

Art No.	Size
5130-100	1.00
5130-101	1.01
5130-102	1.02
5130-103	1.03
...	
5130-149	1.49
5130-150	1.50
...	
5130-950	9.50
5130-951	9.51
5130-952	9.52
...	
5130-999	9.99
5130-1000	10.00



GAUGE

PLAIN PLUG GAUGE

•

PLAIN SETTING RING GAUGE

•

PLUG GAUGE SET

•

THREAD PLUG GAUGE SET

•

THREAD PLUG GAUGE SET

•

THREAD PLUG GAUGES
METRIC THREAD

•

THREAD RING GAUGES,
METRIC THREAD, GO END

•

•

•

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

Description

- 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

Plug gauge set

Description

- Made of special steel,finely ground and lapped
- Tolerance H7
- Deliver with certificate
- Prime plastic box



Electronic report only

Art.No	Set	Content	Standard	Barcode
5107-S7	7pcs/set	3,4,5,6,8,10,12 mm	DIN 2245	6974804579069

Thread plug gauge set

Description

- Made of special steel,finely ground and lapped
- Right hand thread
- GO and NOGO tips
- Tolerance 6H
- Deliver with certificate
- Prime plastic box



Electronic report only

Art.No	Set	Content	Standard	Barcode
5109-S7	7pcs/set	M3,M4,M5,M6,M8,M10,M12	DIN 13	6974804579076

Thread Plug Gauges Metric Thread

Description

- 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 and NOGO
5109-012-2	M1.2x0.25	GO and NOGO
5109-014-3	M1.4x0.3	GO and NOGO
5109-016-4	M1.6x0.35	GO and NOGO
5109-017-4	M1.7x0.35	GO and NOGO
5109-018-4	M1.8x0.35	GO and NOGO
5109-02-5	M2x0.4	GO and NOGO
5109-025-6	M2.5x0.45	GO and NOGO
5109-026-6	M2.6x0.45	GO and NOGO
5109-03-7	M3x0.5	GO and NOGO
5109-035-8	M3.5x0.6	GO and NOGO
5109-04-9	M4x0.7	GO and NOGO
5109-05-11	M5x0.8	GO and NOGO
5109-06-12	M6x1	GO and NOGO
5109-07-12	M7x1	GO and NOGO
5109-08-13	M8x1.25	GO and NOGO
5109-09-13	M9x1.25	GO and NOGO
5109-10-14	M10x1.5	GO and NOGO
5109-12-15	M12x1.75	GO and NOGO
5109-14-16	M14x2	GO and NOGO
5109-16-16	M16x2	GO and NOGO
5109-18-17	M18x2.5	GO and NOGO
5109-20-17	M20x2.5	GO and NOGO
5109-22-17	M22x2.5	GO and NOGO
5109-24-18	M24x3	GO and NOGO
5109-27-18	M27x3	GO and NOGO
5109-30-19	M30x3.5	GO and NOGO

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

Thread Plug Gauges, Metric Fine Thread

Description

- 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 and NOGO
5109-022-4	M2.2x0.35	GO and NOGO
5109-025-4	M2.5x0.35	GO and NOGO
5109-03-4	M3x0.35	GO and NOGO
5109-035-4	M3.5x0.35	GO and NOGO
5109-04-4	M4x0.35	GO and NOGO
5109-045-4	M4.5x0.35	GO and NOGO
5109-05-4	M5x0.35	GO and NOGO
5109-055-4	M5.5x0.35	GO and NOGO
5109-06-4	M6x0.35	GO and NOGO
5109-065-4	M6.5x0.35	GO and NOGO
5109-07-4	M7x0.35	GO and NOGO
5109-075-4	M7.5x0.35	GO and NOGO
5109-08-4	M8x0.35	GO and NOGO
5109-09-4	M9x0.35	GO and NOGO
5109-10-4	M10x0.35	GO and NOGO
5109-04-7	M4x0.5	GO and NOGO
5109-05-7	M5x0.5	GO and NOGO
5109-06-7	M6x0.5	GO and NOGO
5109-07-7	M7x0.5	GO and NOGO
5109-08-7	M8x0.5	GO and NOGO
5109-09-7	M9x0.5	GO and NOGO
5109-10-7	M10x0.5	GO and NOGO
5109-12-7	M12x0.5	GO and NOGO
5109-05-10	M5x0.75	GO and NOGO
5109-06-10	M6x0.75	GO and NOGO
5109-07-10	M7x0.75	GO and NOGO
5109-08-10	M8x0.75	GO and NOGO
5109-09-10	M9x0.75	GO and NOGO
5109-10-10	M10x0.75	GO and NOGO
5109-11-10	M11x0.75	GO and NOGO
5109-12-10	M12x0.75	GO and NOGO
5109-17-10	M17x0.75	GO and NOGO
5109-08-12	M8x1	GO and NOGO
5109-09-12	M9x1	GO and NOGO
5109-10-12	M10x1	GO and NOGO
5109-11-12	M11x1	GO and NOGO
5109-12-12	M12x1	GO and NOGO
5109-13-12	M13x1	GO and NOGO
5109-14-12	M14x1	GO and NOGO
5109-15-12	M15x1	GO and NOGO
5109-16-12	M16x1	GO and NOGO
5109-17-12	M17x1	GO and NOGO
5109-18-12	M18x1	GO and NOGO

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

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

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

Thread Ring Gauges,
Metric Thread, GO end

Description

- 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



Thread Ring Gauges,
Metric Thread, NO-GO end

Description

- 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

Description

- 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



Description

- 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

Gauge block accessory set

Description

- Base
- 50mm Holder,measuring rang 50mm
- 100mm Holder,measuring rang 100mm
- 200mm Holder,measuring rang 200mm
- Precision knife straight adge
- Center point
- Flat jaw,Radius jaw,Knife edge jaw
- Scriber



Art.No	Set	Barcode
5127-17S	17pcs/set	6974804579090

Precision feeler gauge

Description

- 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, 0.40, 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

8pcs Gauge set

Description

- Drill point gauge, angles 120°,118°, 90°, 60°, 55°
- Welding gauge 0-20x0.1mm
- Radius gauge 17pcs/set, 1.0-7.0mm
- Radius gauge 16pcs/set, 7.5-15.0mm
- Radius gauge 15pcs/set, 15.5-25.0mm
- Screw pitch gauge, metric thread 24pcs/set, 0.25-6.00mm
- Screw pitch gauge, Whiworth thread 28pcs/set, 4-62TPI
- Feeler gauge,20pcs/set,length 100mm,0.05-1.00mm
- Packed in wooden box



Art.No	Set	Barcode
5127-8S	8pcs/set	6974804579106

Precision feeler gauge

Description

- 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, 0.40, 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

Radius gauge

Description

- 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

Description

- 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

Thickness Gauge Foil

Description

- 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
5129-0005	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

Description

- 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
5122-007	0.07mm	0.005mm	6974804579595
5122-008	0.08mm	0.005mm	6972727951658
5122-009	0.09mm	0.005mm	6974804579601
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

Description

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



Art No.	Barcode
WP-5129-10	6972727958664

Taper gauge

Description

- 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

Description

- 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

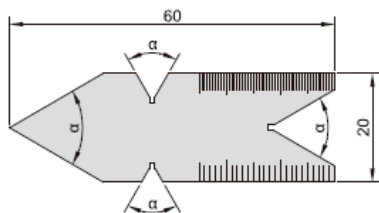
Description

- 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

Center gauge



Description

- Suitable for the angle measurement of cutting tools and thread pitch
- Made of stainless steel,With angle and scale marking
- Metric 60°,Whitworth 55°

Art No.	Angle	Scale	Remarks	Standard	Barcode
5123-060	60°	0.5mm/1mm	Metric 60°	Enterprise	6972727958152
5123-055	55°	0.5mm/1mm	Whitworth 55°	Enterprise	6972727958169

Angle gauge set

Description

- Suitable for angles comparison
- Leather sheath,Made of steel
- 8pcs/set



Art. No.	Range	Size	Accuracy	Standard	Barcode
5123-S18	5°-90°	5°/10°/15°/20°/25°/30°/35°/40°/45°/50°/55°/60°/65°/70°/75°/80°/85°/90°	10'	Enterprise	6974804571711

Digital welding gauge

Description

- 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

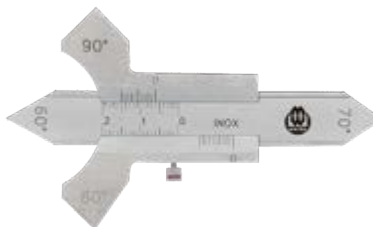


Art No.	Range	Reading	Accuracy error	Barcode
269-120	0-20mm	0.01mm	±0.1mm	6972727950804

Welding gauge

Description

- 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

Description

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

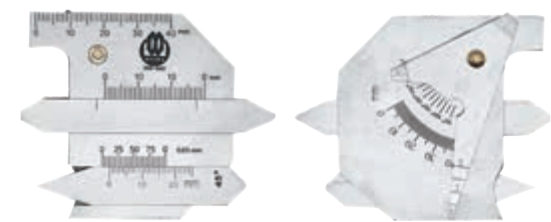


Art No.	Range	Reading	Barcode
269-025	3.2-25.4mm/ 1/8"-1"	3.2mm(1/8"), 4.8mm(3/16"), 6.4mm(1/4"), 7.9mm(5/16"), 9.5mm(3/8"), 11.1mm(7/16"), 12.7mm(1/2"), 15.9mm(5/8"), 19.1mm(3/4"), 22.2mm(7/8"), 25.4mm(1")	6972727950675

Welding gauge

Description

- 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

Description

- 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

Description

- 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

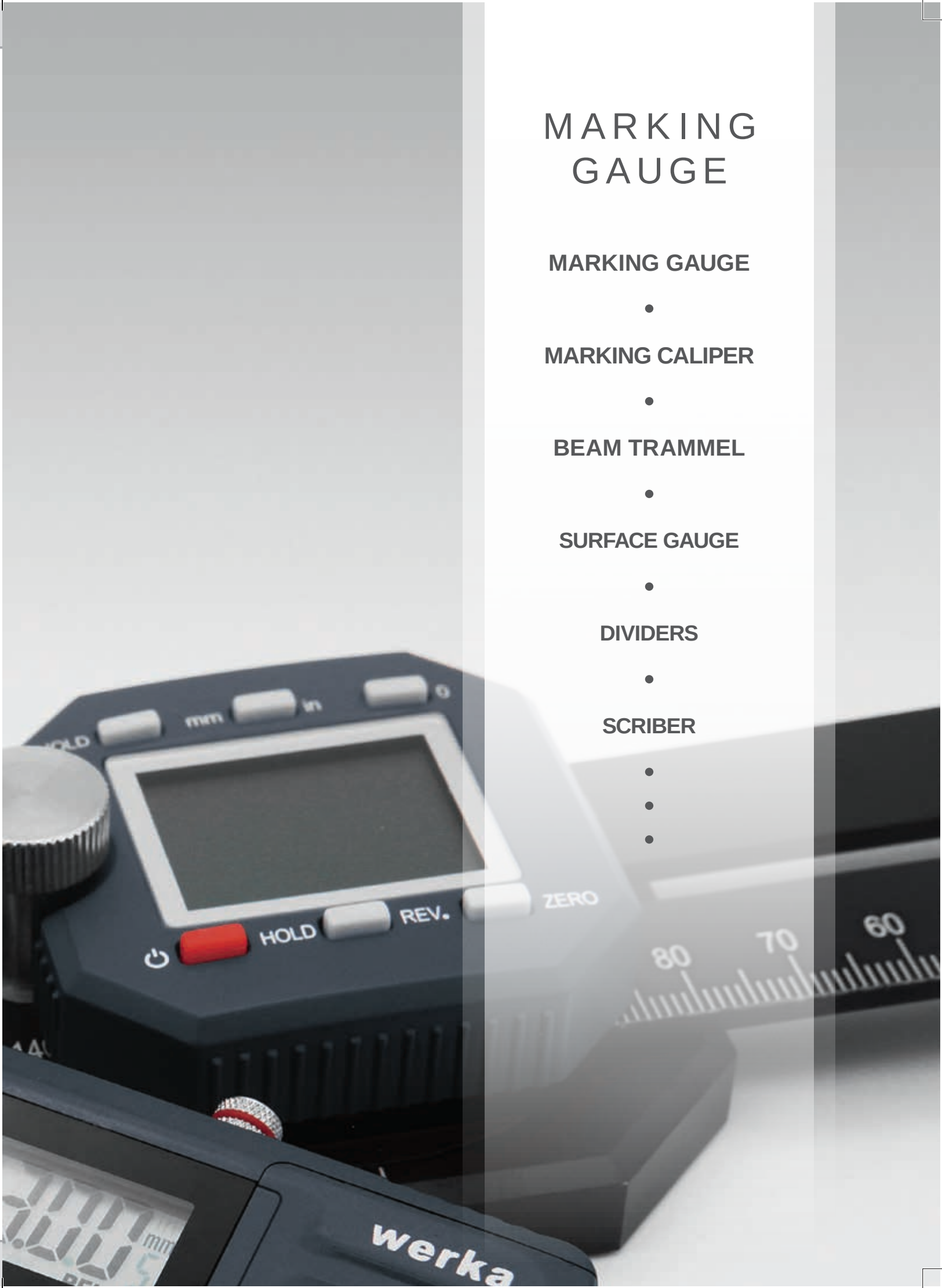
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SCRIBER

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Marking Gauge

Description

- 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



Beam trammel

Description

- Satin chromed
- Hardened stainless steel beam
- Hardened steel interchangeable scribes
- 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

Digital marking Gauge

Description

- 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

Description

- 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

Description

- 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

Marking caliper

Description

- 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

Description

- 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 Ø	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

Description

- Round and chromed beam Ø10mm
- Scriber Ø4mm
- 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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Description

- 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

Description

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

Art No.	Size	Barcode
254-1846	160mm	6971570711846



Scriber with carbide tip

Description

- 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

Description

- Flexible type.According to EC II .
- Reading from left to right.Stainless spring steel
- Etched graduation for a clear reading
- Packed in plastic box



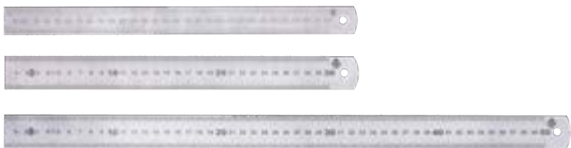
Art No.	Size	Section	Barcode
241-0528	150mm	13x0.5mm	6971570710528
241-0535	200mm	13x0.5mm	6971570710535
241-0542	300mm	13x0.5mm	6971570710542
241-0559	500mm	20x0.5mm	6971570710559
241-0566	1000mm	20x0.5mm	6971570710566

Q

Stainless steel ruler

Description

- 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

Description

- 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

Description

- 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

Description

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



Art. No	Size	Barcode
294-7626	168x36x25mm	6971570717626

LED Flashlight

Description

- 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

Description

- 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

Description

- 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

Description

- 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



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



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.
3. In rotation function the minimal needed turning angle is close to 0 degrees.
- 4) 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.
- 5) Already opened screws can be turned off easily with the rotation function.
- 6) The new developed 2 components handle offers sensitive and ergonomic working style.
- 7) The changing between right / left turning usage will be done by square-section straight-through shank.
- 8) 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
Heigth 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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