



2026 ver. 1.3

MiTech Metrology is an innovative company specialized in total measurement solution offering and high-performance precision tools manufacturing, mainly focus on metrology technical research, measurement instrument development and OEM, ODM, as well as wholesales business.

Our main products Include: caliper, micrometer, indicators, height gauge, magnetic base, universal digital protractor; digital level, and optical measurement machine etc.

Our target is to provide top quality products with competitive costs, finally exceed customers' expectation with our incredible service.

All our employees have rich experiences in metrology industry and global marketing service. We keep none-gap association with our factories to ensure integrated precision solution in various factors, such as: brand new design, technological innovation, quality & cost control, production & delivery optimization, after-sales service.

For years, we have bridged the gaps between customers all over the world and our factories perfectly. With our one-stop solution service, customers have got the most efficiency and workable cooperation, which finally result in time saving and cost saving.

One thing to distinguish our company from others is, we care long-term Vision more than anything else. We are capable enough to support top branded global companies, while we also have passion to help medium and just "start-up" companies to grow up step by step. We sincerely hope, with great quality and our knowledge, we can help our customers to move forward continuously and constantly.

Let's work together and reach final win-win!





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Data Transfer System

Data
Output

Hub

- With RS232 data port, connect with PC, PLC etc.;
- Standard MODBUS protocol
- Can connect up to 32pcs of indicator



Data Channel	Data Port Interface	Code No. (Main)	Code No. (Sub)
4 ports	RS232	5050-400	5010-400
8 ports	RS232	5050-800	5010-800



Data Channel	Data Port Interface	Code No. (Main)	Code No. (Sub)
4 ports	RS232	5050-410	5010-410
4 ports	DB9 serial port	5050-420	5010-420

Cable

- Connect between indicator, hub and PC for data transmission
- With RS232-RS232 or RS232-USB interface



Data Input	Data Output	Connection Between		Remark	Code No.
Mini USB	RS232	Indicator	Hub, PC	Data to software	DCB-05 R232
RS232	RS232	Main Hub	Sub Hub		DCB-06 R232
		Hub	PC		
RS232	USB	Hub	PC		DCB-06 USB
Mini USB	USB	Indicator	PC	Data to Excel directly	DCB-05

Wireless

- Up to 10 meters data transmission distance;
- CR2032 battery, 4 million times of data transmission;
- Fast response, can work in complex environment.
- Transfer data to software, can collect data automatically as requested
- 1 receiver can connect with up to 6 transmitters.



Transmitter

Interface	Length of cable	Code No. (Sub)
Mini USB	100 mm	DWB-05T1
Micro USB	100 mm	DWB-05T2



Receiver

Interface	Length of cable	Code No.
USB	10 mm	DWB-05R



Software

- User-friendly interface, show data and judgment directly;
- With function of tolerance calculation and data collection automatically



Data Transfer Device

Cable

Data
Output

Features:

Don't need special software. Data will be sent to MS Excel directly

DCB-01 is with 5 pins square plug with button

DCB-02 is with micro-USB plug

DCB-03 with Type-C plug



DCB-01



DCB-02



DCB-03

Wireless Device

Features:

2.4G wireless data transmission device with 8 channels

10 meters transfer distance

Don't need special software. Data will be sent to MS Excel directly

DWB-01T is with 5 pins square plug

DWB-02T is with micro-USB plug

DWB-03TS is with Type-C plug and foot switch interface

Bluetooth type data transmission devices are available (DWB-01TB, DWB-02TB, DWB-03TSB)



DWB-01T

DWB-01R



DWB-02T

DWB-01R



DWB-03TS

DWB-01R

Digital Caliper

Features

- Stainless steel material
- Metric/Inch conversion
- IP54 protection level, can be used in workshop conditions
- Fraction display is optional
- Packed in plastic box



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-100mm/0-4"	0.005mm/0.0005"	0.02mm/0.001"	11001-041	11001-040
0-150mm/0-6"	0.005mm/0.0005"	0.02mm/0.001"	11001-061	11001-060
0-200mm/0-8"	0.005mm/0.0005"	0.03mm/0.0015"	11001-081	11001-080
0-300mm/0-12"	0.005mm/0.0005"	0.03mm/0.0015"	11001-121	11001-120

Digital Caliper

Features

- Stainless steel material
- Metric/Inch conversion
- IP54 protection level, can be used in workshop conditions
- Packed in plastic box



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-100mm/0-4"	0.005mm/0.0005"	0.02mm/0.001"	11005-041	11005-040
0-150mm/0-6"	0.005mm/0.0005"	0.02mm/0.001"	11005-061	11005-060
0-200mm/0-8"	0.005mm/0.0005"	0.03mm/0.0015"	11005-081	11005-080
0-300mm/0-12"	0.005mm/0.0005"	0.03mm/0.0015"	11005-121	11005-120

Big Screen Digital Caliper

Features

- Large screen display
- Stainless steel material
- IP54 protection level, can be used in workshop conditions
- mm, inch and fraction display
- Packed in plastic box



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11007-061	11007-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11007-081	11007-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11007-121	11007-120

Rechargeable Digital Caliper

Features

- Large screen display
- Stainless steel material
- IP54 protection level, can be used in workshop conditions
- Fraction display is optional
- Thumb wheel for find adjustment
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	11101-041	11101-040
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11101-061	11101-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11101-081	11101-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11101-121	11101-120

Absolute Digital Caliper

Absolute

Data
Output

IP65

Features

- Stainless steel material
- Inductive measurement system
- IP65 protection level
- Absolute measurement system.
No response speed limit
- With data output port (DCB-01 / DWB-01)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	11002-041	11002-040
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11002-061	11002-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11002-081	11002-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11002-121	11002-120

IP67 Rechargeable Digital Caliper

Metal
Housing



IP67

Features

- Stainless steel material
- Metal housing design, IP67 protection level
- Full screen electronic pointer display, color LCD, metal house
- 6 different display modes for easy reading
- Tolerance setting and GO/NG indication
- Backlight display with three kinds of brightness and six kinds of power off time
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	Code No.
0-100mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	14305-041
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	14305-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	14305-081
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	14305-121

IP67 Digital Caliper

IP67

Features

- Stainless steel material
- Inductive measurement system
- IP67 protection level
- Auto power on/off
- Fraction display is optional
- Packed in plastic box



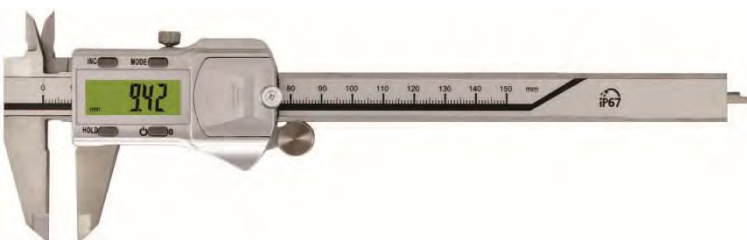
Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	11302-041	11302-040
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11302-061	11302-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11302-081	11302-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11302-121	11302-1200

IP67 Digital Caliper

IP67

Features

- Stainless steel material
- Inductive measurement system
- IP67 protection level, can work reliably in hard environment
- Auto power on/off
- Fraction display is optional
- Thumb wheel for fine adjustment
- Packed in plastic box



Range	Resolution	Accuracy	Code No.
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	11801-041
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11801-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11801-081
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11801-121

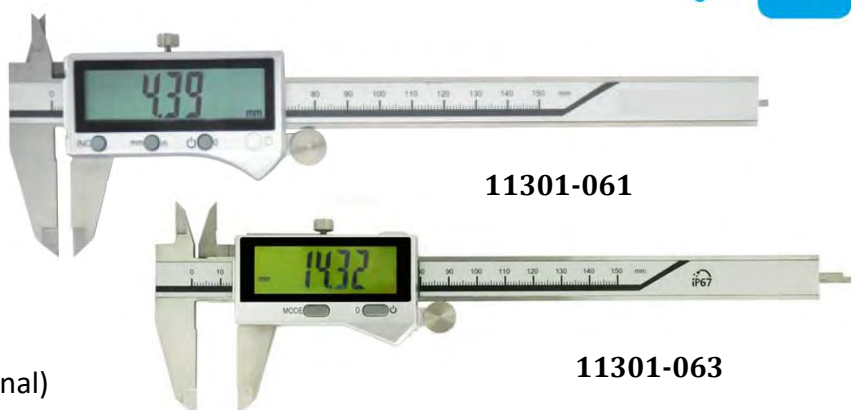
IP67 Big Screen Digital Caliper



IP67

Features

- Stainless steel material
- Inductive measurement system
- Large screen display
- IP67 protection level
- Auto power on/off
- Fraction display is optional
- Built-in wireless transmission (optional)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11301-061	11301-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11301-081	11301-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11301-121	11301-120
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11301-063	11301-062
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11301-083	11301-082
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11301-123	11301-122

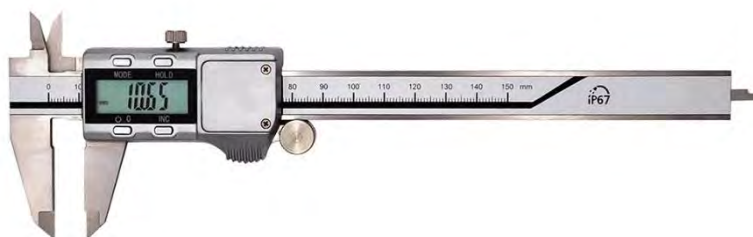
IP67 Metal Housing Digital Caliper

Metal
Housing

IP67

Features

- Stainless steel material
- Metal Housing design
- IP67 protection level, can work reliably in hard environment
- Absolute/INC function, no need to set zero often
- Data hold function for easy reading
- Auto power on/off
- Thumb wheel for fine adjustment
- Packed in plastic box



Range	Resolution	Accuracy	Code No.
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	14304-041
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	14304-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	14304-081
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	14304-121

IP67 Rechargeable Digital Caliper



IP67

Features

- Stainless steel material
- Inductive measurement system
- IP67 protection level
- Auto power on/off
- Thumb wheel for fine adjustment
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission (optional)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	11303-061	11303-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	11303-081	11303-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	11303-121	11303-120

Dial Caliper

Features

- Surface-hardened stainless steel construction
- Preloaded dual pinions eliminate backlash
- Thumb wheel for fine adjustment
- Packed in plastic box

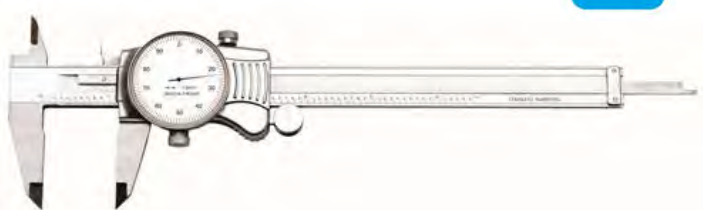


Range	Graduation	Accuracy	Code No.
Metric			
0-150mm	0.02mm	±0.03mm	12012-061
0-200mm	0.02mm	±0.03mm	12012-081
0-300mm	0.02mm	±0.04mm	12012-121
Inch			
0-6"	0.001"	±0.0015"	12021-061
0-8"	0.001"	±0.0015"	12021-081
0-12"	0.001"	±0.002"	12021-121

Metal Housing Dial Caliper

Features

- Surface-hardened stainless steel construction
- Preloaded dual pinions eliminate backlash
- Sturdy Aluminum ergonomic die cast housing can be used in the harshest environments
- The dual pinion mechanism offers extra smooth operation



Metal
Housing

Range	Graduation	Accuracy	Code No.
Metric			
0-150mm	0.02mm	±0.03mm	15012-061
0-200mm	0.02mm	±0.03mm	15012-081
0-300mm	0.02mm	±0.04mm	15012-121
Inch			
0-6"	0.001"	±0.0015"	15021-061
0-8"	0.001"	±0.0015"	15021-081
0-12"	0.001"	±0.002"	15021-121

Heavy Duty Digital Caliper with Upper Knife-edge

Features

- Stainless steel material
- With upper knife-edge for external measurement
- Design with fine adjustment to allow precise movement
- Hold and Pre-set function



19001-050 (E type)

Range	Resolution	Accuracy	T	Jaw Length		Upper Jaw	Code No.
				A	E		
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.002"	10mm/0.5"	90mm	90mm	38mm	19001-030
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"		150mm	60mm	19001-050
0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"	100mm		60mm	19001-060
0-800mm/0-32"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	63mm	19001-080
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	63mm	19001-100

Heavy Duty Digital Caliper

Features

- Stainless steel material
- Designed with fine adjustment to allow precise movement
- Stainless steel with hardened measuring faces
- Hold and Pre-set function



19002-060 (A type)

Range	Resolution	Accuracy	T	Jaw Length		Code No.
				A	E	
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.002"	10mm/0.5"	90mm	90mm	19002-030
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"		150mm	19002-050
0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"	100mm		19002-060
0-800mm/0-32"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	19002-080
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	19002-100

IP65 Heavy Duty Digital Caliper with Upper Knife-edge



Data
Output

IP65

Features

- With upper knife-edge for external measurement
- Design with fine adjustment to allow precise movement
- Hold and Pre-set function
- Inductive measurement system, provide IP65 protection grade
- SPC data output port (DCB-01 / DWB-01). Built-in wireless transmission is optional



19201-050 (E type)

Range	Resolution	Accuracy	T1	Jaw Length		Upper Jaw	Code No.
				A	E		
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	10mm/0.5"	90mm	90mm	38mm	19201-030
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"		150mm	60mm	19201-050
0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"	100mm		60mm	19201-060
0-800mm/0-32"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	63mm	19201-080
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	63mm	19201-100

IP65 Heavy Duty Digital Caliper



Data
Output

IP65

Features

- Designed with fine adjustment to allow precise movement
- Stainless steel with hardened measuring faces
- Hold and Pre-set function
- Inductive measurement system, provide IP65 protection grade
- SPC data output port (DCB-01 / DWB-01). Built-in wireless transmission is optional



A type

E type

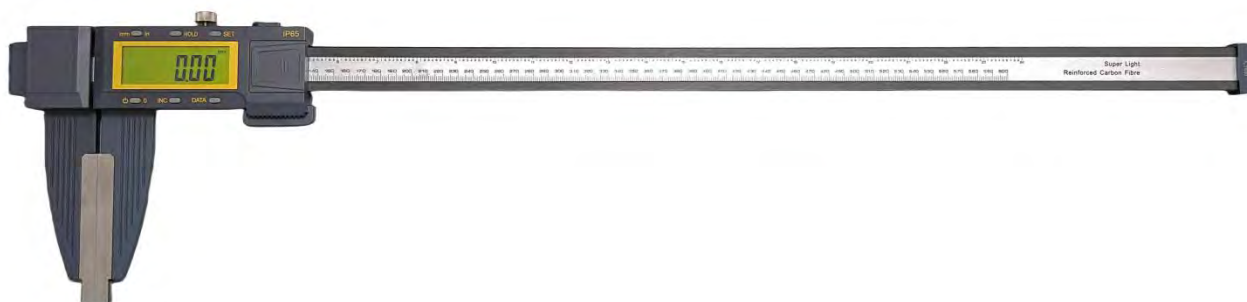
Range	Resolution	Accuracy	T1	Jaw Length		Code No.
				A	E	
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	10mm/0.5"	90mm	90mm	19202-030
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"		150mm	19202-050
0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"	100mm		19202-060
0-800mm/0-32"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	19202-080
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	125mm	150mm	19202-100

IP65 Water-Proof Carbon Fiber Digital Caliper



Features

- Main frame is made of carbon fiber, super light
- Inductive measurement system, provide IP65 protection grade
- SPC data output port (DCB-01 / DWB-01)
- Built-in wireless transmission is optional
- SET button for preset function



Range	Resolution	Accuracy	T	Jaw Length	Code No.
0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	20mm/0.8"	138mm	19302-241
0-600mm/0-24"	0.01mm/0.0005"	0.07mm/0.003"	20mm/0.8"	200mm	19302-242
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	20mm/0.8"	138mm	19302-401
0-1000mm/0-40"	0.01mm/0.0005"	0.10mm/0.004"	20mm/0.8"	200mm	19302-402

Digital Scale

Data
Output

Features

- Metric/Inch conversion
- Zero-set at any position
- Data output port (DCB-02, DWB-02, DWB-05)



Range	Resolution	Accuracy	Vertical Code No.	Horizontal Code No.
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	18301-041	18301-040
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	18301-061	18301-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	18301-081	18301-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	18301-121	18301-120
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.0020"	18301-201	18301-200
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0030"	18301-401	18301-400

IP67 Digital Scale

Features

- Inductive measurement system
- Metric/Inch conversion
- Zero-set at any position
- IP67 protection level, can work in hard conditions
- Auto power on/off
- Built-in wireless transmission (optional)



IP67

Range	Resolution	Accuracy	Vertical Code No.	Horizontal Code No.
0-100mm/0-4"	0.01mm/0.0005"	0.02mm/0.001"	18302-041	18302-040
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	18302-061	18302-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	18302-081	18302-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	18302-121	18302-120
0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.0020"	18302-201	18302-200
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0030"	18302-401	18302-400

IP67 Digital Scale without Display

IP67

Features

- Inductive measurement system
- Metric/Inch conversion
- IP67 protection level, can work in hard conditions
- With port for power and external display (doesn't include)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.001"	18303-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	18303-080
0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"	18303-120
0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	18303-240
0-800mm/0-32"	0.01mm/0.0005"	0.05mm/0.002"	18303-320
0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	18303-400

Digital Display

Features

- Easy read super large LCD display
- Metric/Inch conversion
- Powered by 2pcs 3V Lithium battery, can use external power
- Can read display data of measuring tools and update continuously
- With many functions (such as: PRESET, HOLD, TOL, MAX, MIN etc.)
- With expandable signal output



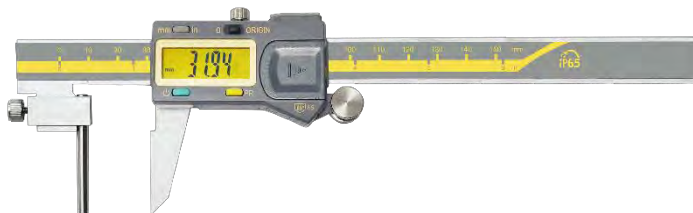
DP-01

Absolute Digital Tube Caliper



Features

- Measure the thickness of Tube
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16001-061	16001-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16001-081	16001-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16001-121	16001-120

IP67 Digital Tube Caliper



Features

- Measure thickness of tube
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



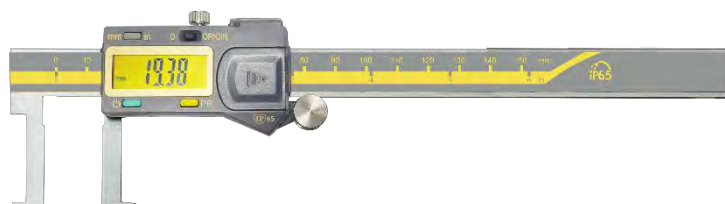
Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16301-061	16301-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16301-081	16301-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16301-121	16301-120

Absolute Digital Internal Grooves Caliper



Features

- Universal Jaws for measuring internal grooves
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- Preset function
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
20-170mm/0.78-6.7"	0.01mm/0.0005"	0.03mm/0.0015"	16002-061	16002-060
25-225mm/0.98-8.8"	0.01mm/0.0005"	0.03mm/0.0015"	16002-081	16002-080
30-330mm/1.18-13"	0.01mm/0.0005"	0.04mm/0.0015"	16002-121	16002-120

IP67 Digital Internal Groove Caliper



Features

- Universal Jaws for measuring internal grooves
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Preset function
- Built in wireless transmission (optional)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
20-170mm/0.78-6.7"	0.01mm/0.0005"	0.03mm/0.0015"	16302-061	16302-060
25-225mm/0.98-8.8"	0.01mm/0.0005"	0.03mm/0.0015"	16302-081	16302-080
30-330mm/1.18-13"	0.01mm/0.0005"	0.04mm/0.0015"	16302-121	16302-120

Absolute Digital External Grooves Caliper



Features

- Universal Jaws for measuring external grooves
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16003-061	16003-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16003-081	16003-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16003-121	16003-120

IP67 Digital External Grooves Caliper



Features

- Universal Jaws for measuring external grooves
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



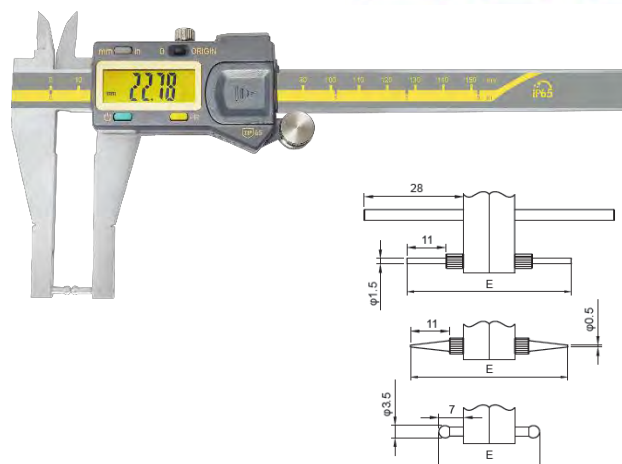
Range	Resolution	Accuracy	with thumb wheel	without thumb wheel
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16303-061	16303-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16303-081	16303-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16303-121	16303-120

Absolute Digital Caliper with multi-Functions



Features

- Can measure the outside and internal dimensions
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- Preset function
- 3 type of measuring anvils are included
- With data output port (DCB-01, DWB-01)



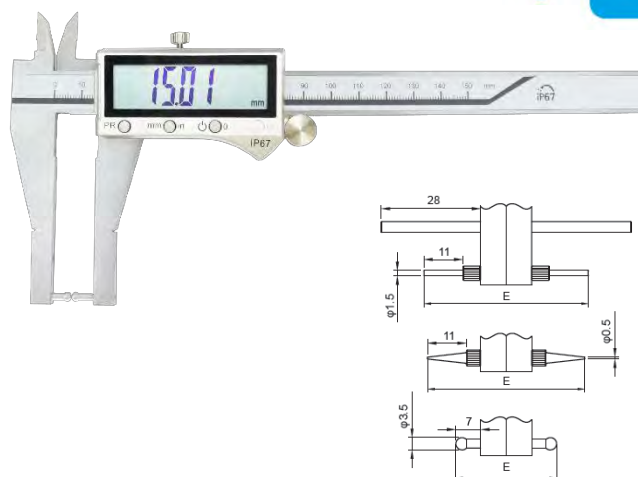
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16000-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16000-081
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16000-121

IP67 Digital Caliper with multi-Functions



Features

- Can measure the outside and internal dimensions
- Inductive measurement system
- IP67 protection level
- Preset function
- 3 type of measuring anvils are included
- Built in wireless transmission (optional)



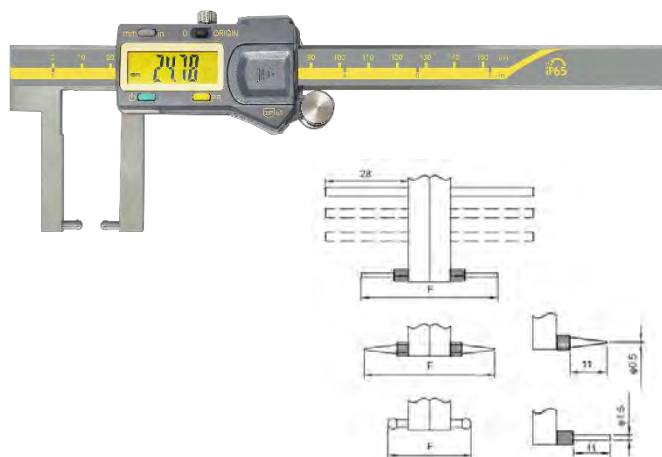
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16300-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16300-081
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16300-121

Absolute Digital Caliper with multi-Functions



Features

- Can measure the outside and internal dimensions
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- Preset function
- 3 type of measuring anvils are included
- With data output port (DCB-01, DWB-01)



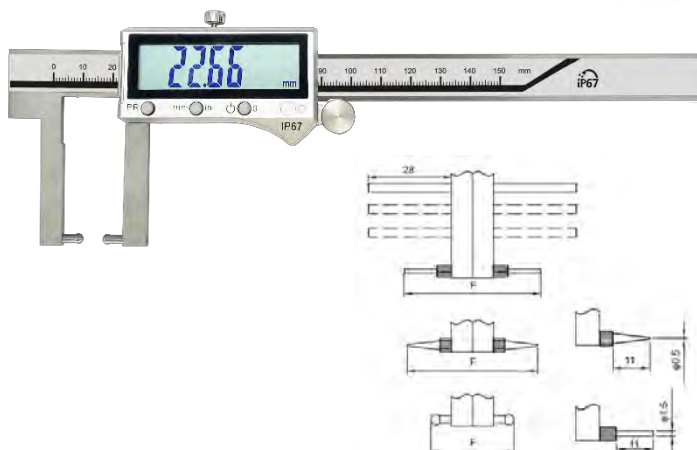
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16010-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16010-081
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16010-121

IP67 Digital Caliper with multi-Functions



Features

- Can measure the outside and internal dimensions
- Inductive measurement system
- IP67 protection level
- Preset function
- 3 type of measuring anvils are included
- Built in wireless transmission (optional)



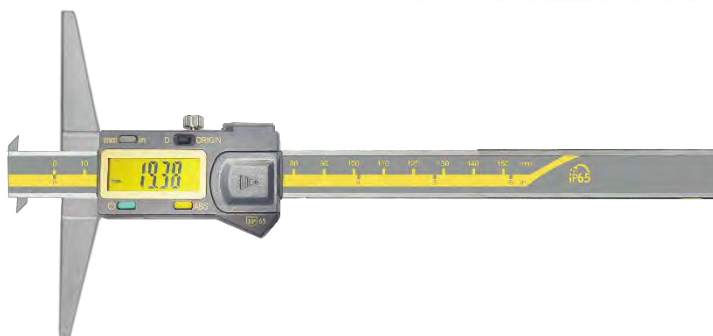
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16310-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16310-081
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16310-121

Absolute Digital Depth Caliper with Double Hooks



Features

- The hooked measuring surface are used for measurement of internal or external grooves and other intricate work piece characteristics
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16004-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16004-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16004-120

IP67 Digital Depth Caliper with Double Hooks



Features

- The hooked measuring surface are used for measurement of internal or external grooves and other intricate work piece characteristics
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



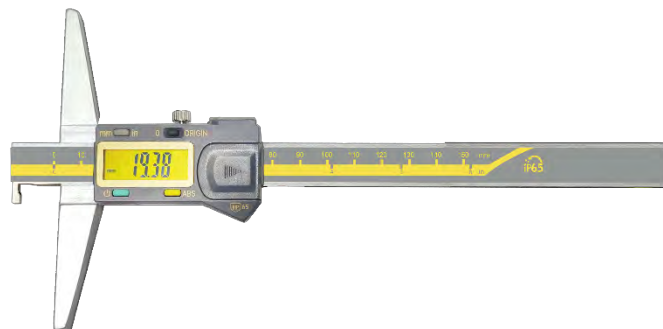
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16304-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16304-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16304-120

Absolute Digital Depth Calipers with Single Hook



Features

- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16005-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16005-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16005-120

IP67 Digital Depth Calipers with Single Hook



Features

- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



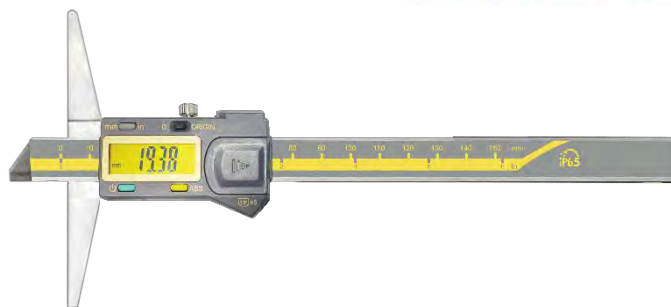
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16305-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16305-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16305-120

Absolute Digital Depth Caliper without Hook



Features

- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16006-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16006-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16006-120

IP67 Digital Depth Caliper without Hook



Features

- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16306-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16306-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16306-120

Absolute Digital Depth Caliper with Exchangeable Anvil

Absolute

Data
Output

IP65

Features

- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16016-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16016-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16016-120

IP67 Digital Depth Caliper with Exchangeable Anvil



IP67

Features

- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



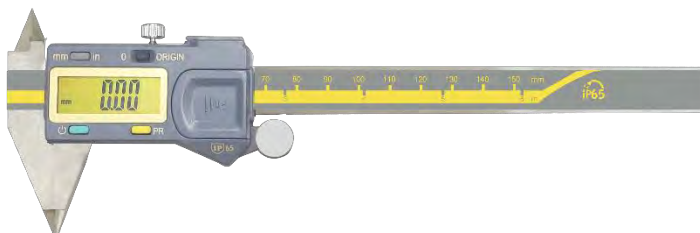
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16316-060
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16316-080
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16316-120

Absolute Digital Caliper with Point Jaws



Features

- The point jaws for measurement of narrow space
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16007-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16007-081
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16007-121

IP67 Digital Caliper with Point Jaws



Features

- The point jaws for measurement of narrow space
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



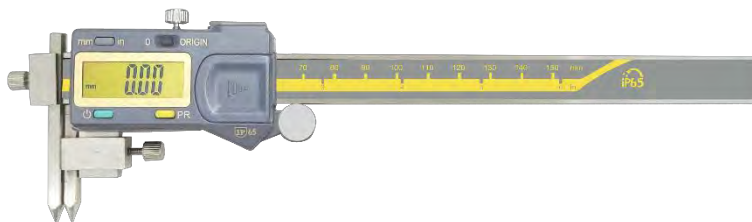
Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	0.03mm/0.0015"	16307-061
0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"	16307-081
0-300mm/0-12"	0.01mm/0.0005"	0.04mm/0.0015"	16307-121

Absolute Digital Caliper for Center Distance



Features

- Cone measuring face for measurement of the center distance of two holes and the distance from the hole center to the part edge
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- Preset function
- With data output port (DCB-01, DWB-01)



Range	Resolution	Accuracy	Code No.
5-155mm/0.2-6"	0.01mm/0.0005"	0.03mm/0.0015"	16008-061
5-205mm/0.2-8"	0.01mm/0.0005"	0.03mm/0.0015"	16008-081
5-305mm/0.2-12"	0.01mm/0.0005"	0.04mm/0.0015"	16008-121

IP67 Digital Caliper for Center Distance



Features

- Cone measuring face for measurement of the center distance of two holes and the distance from the hole center to the part edge
- Inductive measurement system
- IP67 protection level
- Preset function
- Built in wireless transmission (optional)



Range	Resolution	Accuracy	Code No.
5-155mm/0.2-6"	0.01mm/0.0005"	0.03mm/0.0015"	16308-061
5-205mm/0.2-8"	0.01mm/0.0005"	0.03mm/0.0015"	16308-081
5-305mm/0.2-12"	0.01mm/0.0005"	0.04mm/0.0015"	16308-121

IP65 Digital Outside Micrometer

Data Output IP65

Features

- IP65 protection level
- Carbide tipped measuring faces
- Auto power off to maximize battery life
- With data output port (DCB-02, DWB-02, DWB-05)



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21211-012	21221-012
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21211-022	21221-022
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21211-032	21221-032
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21211-042	21221-042
100-125mm/4-5"	0.001mm/0.00005"	±0.003mm/0.0002"	21211-052	21221-052
125-150mm/5-6"	0.001mm/0.00005"	±0.003mm/0.0002"	21211-062	21221-062

IP65 Digital Outside Micrometer

IP65

Features

- Protection level IP65
- Ratchet Stop (Ratchet Thimble is optional)
- Automatic off function to maximize battery life
- Carbide tipped measuring faces



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21212-011	21222-011
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21212-021	21222-021
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21212-031	21222-031
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21212-041	21222-041
100-125mm/4-5"	0.001mm/0.00005"	±0.003mm/0.0002"	21212-051	21222-051
125-150mm/5-6"	0.001mm/0.00005"	±0.003mm/0.0002"	21212-061	21222-061
150-175mm/6-7"	0.001mm/0.00005"	±0.004mm/0.0002"	21212-071	21222-071
175-200mm/7-8"	0.001mm/0.00005"	±0.004mm/0.0002"	21212-081	21222-081

IP65 Digital Outside Micrometer



Features

- IP65 protection level
- Carbide tipped measuring faces
- Built-in rechargeable lithium battery
- SPC data output port (DCB-02, DWB-02, DWB-05)
- Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21215-011	21225-011
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21215-021	21225-021
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21215-031	21225-031
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21215-041	21225-041

IP65 Quick Digital Outside Micrometer



Features

- 2mm large pitch lead screw
- Protection level IP65
- Carbide tipped measuring faces
- Built-in rechargeable lithium battery
- SPC data output port (DCB-02, DWB-02, DWB-05)
- Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21215-013	21225-013
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21215-023	21225-023
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21215-033	21225-033
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21215-043	21225-043

Digital Outside Micrometer



Features

- Incremental capacitive measurement system
- Carbide tipped measuring faces
- Ratchet friction thimble
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21013-010
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21013-020
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21013-030
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21013-040
100-125mm/4-5"	0.001mm/0.00005"	±0.003mm/0.0002"	21013-050
125-150mm/5-6"	0.001mm/0.00005"	±0.003mm/0.0002"	21013-060

Digital Outside Micrometer

Features:

- Incremental capacitive measurement system
- Carbide tipped measuring faces
- Ratchet friction thimble
- Inch/Metric conversion
- Constant force ratchet on thimble



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21012-010
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21012-020
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21012-030
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21012-040
100-125mm/4-5"	0.001mm/0.00005"	±0.003mm/0.0002"	21012-050
125-150mm/5-6"	0.001mm/0.00005"	±0.003mm/0.0002"	21012-060

Digital Outside Micrometer

Features

- Carbide tipped measuring faces
- Ratchet friction thimble
- Inch/Metric conversion
- Automatic off function to maximize battery life



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	21011-010
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	21011-020
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	21011-030
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	21011-040
100-125mm/4-5"	0.001mm/0.00005"	±0.003mm/0.0002"	21011-050
125-150mm/5-6"	0.001mm/0.00005"	±0.003mm/0.0002"	21011-060

Micrometer Stand

Features:

- Used for sustain the micrometer or do other clamping
- Clamp with rubber pads for protecting the instruments

Main Material	Code No.
Cast Iron	69001-000
Aluminum	69002-000



Absolute Snap Outside Micrometer

Features

- IP65 production level
- With data output port
- Carbide tipped measuring faces
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.003mm/0.00015"	21213-010	21223-010
25-50mm/1-2"	0.001mm/0.00005"	±0.003mm/0.00015"	21213-020	21223-020
50-75mm/2-3"	0.001mm/0.00005"	±0.004mm/0.00015"	21213-030	21223-030
75-100mm/3-4"	0.001mm/0.00005"	±0.004mm/0.00015"	21213-040	21223-040

Indicator Snap Outside Micrometer

Features

- Retractable anvil with an indicator for precision measurement of mass-produced parts
- Carbide measuring faces
- 6.5mm spindle diameter
- Graduation: Indicator: 0.001mm / 0.00005"
Scale: 0.002mm / 0.0001"
- Indicator range ± 0.04 mm



Range	Accuracy	Metric Code No.	Inch Code No.
0-25mm / 0-1"	± 0.002 mm / 0.0001"	27011-010	27021-010
25-50mm / 1-2"	± 0.002 mm / 0.0002"	27011-020	27021-020
50-75mm / 2-3"	± 0.003 mm / 0.0002"	27011-030	27021-030
75-100mm / 3-4"	± 0.003 mm / 0.0002"	27011-040	27021-040

Indicator Snap Outside Micrometer

Features

- IP54 protection level
- Carbide measuring faces
- 10mm spindle diameter
- Graduation: 0.001mm / 0.00005"
- Indicator range ± 0.04 mm
- Direct GO/NOGO judgment for mass-produced parts
- Measuring force 5-10N

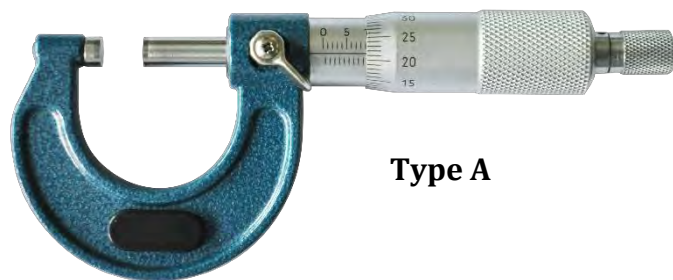


Range	Accuracy	Metric Code No.	Inch Code No.
0-25mm / 0-1"	± 0.001 mm / 0.00005"	27012-010	27022-010
25-50mm / 1-2"	± 0.001 mm / 0.00005"	27012-020	27022-020
50-75mm / 2-3"	± 0.001 mm / 0.00005"	27012-030	27022-030
75-100mm / 3-4"	± 0.001 mm / 0.00005"	27012-040	27022-040

Mechanical Outside Micrometer

Features

- Carbide tipped measuring faces
- Ratchet stop
- Painted steel frame
- The size of type A is available up to 300mm /12"



Type A



Type B



Type C

Metric			Inch			Code No	
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Metric	Inch
0-25mm	0.01mm	±0.004mm	0-1"	0.001"	±.0001"	23011-011	23021-011
25-50mm	0.01mm	±0.004mm	1-2"	0.001"	±.0002"	23011-021	23021-021
50-75mm	0.01mm	±0.005mm	2-3"	0.001"	±.0002"	23011-031	23021-031
75-100mm	0.01mm	±0.005mm	3-4"	0.001"	±.0002"	23011-041	23021-041
100-125mm	0.01mm	±0.006mm	4-5"	0.001"	±.0002"	23011-051	23021-051
125-150mm	0.01mm	±0.006mm	5-6"	0.001"	±.0002"	23011-061	23021-061
0-25mm	0.001mm	±0.004mm	0-1"	0.0001"	±.0001"	23012-011	23022-011
25-50mm	0.001mm	±0.004mm	1-2"	0.0001"	±.0002"	23012-021	23022-021
50-75mm	0.001mm	±0.005mm	2-3"	0.0001"	±.0002"	23012-031	23022-031
75-100mm	0.001mm	±0.005mm	3-4"	0.0001"	±.0002"	23012-041	23022-041
100-125mm	0.001mm	±0.006mm	4-5"	0.0001"	±.0002"	23012-051	23022-051
125-150mm	0.001mm	±0.006mm	5-6"	0.0001"	±.0002"	23012-061	23022-061

Mechanical Micrometer Set

- Plastic box for 3pcs set and 4pcs set
- Aluminum box and Plastic box for 6pcs set are optional
- Aluminum box and Wooden box are optional for 12pcs set



Metric		Inch		Code No.	
Range	Graduation	Range	Graduation	Metric	Inch
0-75mm	0.01mm	0-3"	0.001"	23011-103	23021-103
0-100mm	0.01mm	0-4"	0.001"	23011-104	23021-104
0-150mm	0.01mm	0-6"	0.001"	23011-106	23021-106
150-300mm	0.01mm	6-12"	0.001"	23011-206	23021-206
0-300mm	0.01mm	0-12"	0.001"	23011-212	23021-212

Mechanical Micrometer with Interchangeable Anvils

Features

- Carbide tipped measuring faces
- Painted fine cast frame
- 0.01mm/0.001" graduation
- Ratchet stop



Metric			Inch			Code No.	
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Metric	Inch
0-150mm	0.01mm	±0.006mm	0-6"	0.001"	±.0002"	23111-015	23121-015
150-300mm	0.01mm	±0.008mm	6-12"	0.001"	±.0003"	23111-153	23121-153
0-100mm	0.01mm	±0.005mm	0-4"	0.001"	±.0002"	23111-001	23121-001
100-200mm	0.01mm	±0.007mm	4-8"	0.001"	±.0003"	23111-102	23121-102
200-300mm	0.01mm	±0.009mm	8-12"	0.001"	±.0003"	23111-203	23121-203

Digital Tube Micrometer

Features:

- Large LCD display
- Carbide measuring face, Painted frame
- Measuring wall thickness of various tubes



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	26011-010A
25-50mm/1-2"	0.001mm/0.00005"	0.003mm/0.00015"	26011-020A
50-75mm/2-3"	0.001mm/0.00005"	0.004mm/0.00015"	26011-030A
75-100mm/3-4"	0.001mm/0.00005"	0.004mm/0.00015"	26011-040A

Digital Tube Micrometer

Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.0001"	26011-010B
25-50mm/1-2"	0.001mm/0.00005"	0.003mm/0.0001"	26011-020B
50-75mm/2-3"	0.001mm/0.00005"	0.004mm/0.00015"	26011-030B
75-100mm/3-4"	0.001mm/0.00005"	0.004mm/0.00015"	26011-040B

Mechanical Tube Micrometer

Features:

- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26011-010MB
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26011-020MB
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26011-030MB
75-100mm/3-4"	0.01mm/0.0001"	0.005mm/0.0002"	26011-040MB

Digital Tube Micrometer

Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	26014-010A

Digital Tube Micrometer

Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	26014-010B

Mechanical Tube Micrometer

Features:

- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26014-010MB

Digital Tube Micrometer



Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.0001"	26011-011B
25-50mm/1-2"	0.001mm/0.00005"	0.003mm/0.0001"	26011-021B
50-75mm/2-3"	0.001mm/0.00005"	0.004mm/0.00015"	26011-031B
75-100mm/3-4"	0.001mm/0.00005"	0.004mm/0.00015"	26011-041B

Mechanical Tube Micrometer

Features:

- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26011-011MB
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26011-021MB
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26011-031MB
75-100mm/3-4"	0.01mm/0.0001"	0.005mm/0.0002"	26011-041MB

Double Points Digital Micrometer



Features:

- Large LCD display
- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, key ways and other hard to reach places
- Tapered for easier access to difficult areas
- With data output port (DCB-01, DWB-01) (Type B only)
- Built-in wireless data transmission (optional, Type B only)



Type A



Type B

Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.0001"	26012-010
25-50mm/1-2"	0.001mm/0.00005"	0.004mm/0.00015"	26012-020
50-75mm/2-3"	0.001mm/0.00005"	0.004mm/0.00015"	26012-030
75-100mm/3-4"	0.001mm/0.00005"	0.005mm/0.0002"	26012-040

Mechanical Tube Micrometer

Features:

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, key ways and other hard to reach places
- Tapered for easier access to difficult areas



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26012-010MA
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26012-020MA
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26012-030MA
75-100mm/3-4"	0.01mm/0.0001"	0.005mm/0.0002"	26012-040MA

Single Point Digital Micrometer



Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring the depth of grooves of brake systems
- With data output port (DCB-01, DWB-01) (Type B only)
- Built-in wireless data transmission (optional, Type B only)



Type A



Type B

Range	Resolution	Accuracy	Code No.
0-20mm/0-0.8"	0.001mm/0.00005"	0.003mm/0.00015"	26013-010

Single Point Mechanical Micrometer

Features:

- For measuring the depth of grooves of brake systems
- Carbide measuring face, painted frame



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26013-010MB
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26013-010MB
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26013-010MB
75-100mm/3-4"	0.01mm/0.0001"	0.005mm/0.0002"	26013-010MB

Spline Digital Micrometer



Features:

- Large LCD display
- Carbide measuring face, painted frame
- With data output port (DCB-01, DWB-01) (Type B only)
- Built-in wireless data transmission (optional, Type B only)



Type A



Type B

Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	±0.003mm/0.00015"	26015-010
25-50mm/1-2"	0.001mm/0.00005"	±0.003mm/0.00015"	26015-020
50-75mm/2-3"	0.001mm/0.00005"	±0.004mm/0.00015"	26015-030

Spline Mechanical Micrometer

Features:

- Carbide measuring face, painted frame



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26015-010MA
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26015-020MA
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26015-030MA
75-100mm/3-4"	0.01mm/0.0001"	0.005mm/0.0002"	26015-040MA

Disk Micrometer

Features:

- Non-rotating spindle
- For measuring gears and paper thickness



Range	Resolution	Accuracy	Metric	Inch
0-25mm/0-1"	0.001mm/0.00005"	0.004mm/0.0001"	26016-010	26026-010
25-50mm/1-2"	0.001mm/0.00005"	0.004mm/0.0002"	26016-020	26026-020
50-75mm/2-3"	0.001mm/0.00005"	0.005mm/0.0002"	26016-030	26026-030
75-100mm/3-4"	0.001mm/0.00005"	0.005mm/0.0002"	26016-040	26026-040
100-125mm/4-5"	0.001mm/0.00005"	0.006mm/0.0002"	26016-050	26026-050
125-150mm/5-6"	0.001mm/0.00005"	0.006mm/0.0002"	26016-060	26026-060

Disk Micrometer

Features:

- For measuring gears and paper thickness
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.004mm/0.00015"	26016-010B
25-50mm/1-2"	0.001mm/0.00005"	0.004mm/0.00015"	26016-020B
50-75mm/2-3"	0.001mm/0.00005"	0.005mm/0.0002"	26016-030B

Disk Mechanical Micrometer

Features:

- For measuring gears and paper thickness



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26016-010MA
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26016-020MA
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26016-030MA

Blade Micrometer

Features:

- Non-rotating spindle
- Inch/Metric conversion



Range	Resolution	Accuracy	Metric	Inch
0-25mm/0-1"	0.001mm/0.00005"	±0.002mm/0.0001"	26017-010	26027-010
25-50mm/1-2"	0.001mm/0.00005"	±0.002mm/0.0002"	26017-020	26027-020
50-75mm/2-3"	0.001mm/0.00005"	±0.003mm/0.0002"	26017-030	26027-030
75-100mm/3-4"	0.001mm/0.00005"	±0.003mm/0.0002"	26017-040	26027-040
100-125mm/4-5"	0.001mm/0.00005"	±0.003mm/0.0002"	26017-050	26027-050
125-150mm/5-6"	0.001mm/0.00005"	±0.003mm/0.0002"	26017-060	26027-060

Blade Micrometer

Features:

- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.004mm/0.00015"	26017-010B
25-50mm/1-2"	0.001mm/0.00005"	0.004mm/0.00015"	26017-020B
50-75mm/2-3"	0.001mm/0.00005"	0.005mm/0.0002"	26017-030B

Blade Mechanical Micrometer

Features:

- For measuring gears and paper thickness



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.01mm/0.0001"	0.004mm/0.00015"	26017-010MA
25-50mm/1-2"	0.01mm/0.0001"	0.004mm/0.00015"	26017-020MA
50-75mm/2-3"	0.01mm/0.0001"	0.005mm/0.0002"	26017-030MA

Digital V-Anvil Micrometer

Features:

- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers, end mills
- Carbide measuring faces
- IP65 protection level. Criterion DIN40050/IEC529
- Resolution: 0.001mm / 0.00005"



Range	Accuracy	Code No. Metric	Code No. Inch
3 Flutes			
1-15mm / 0.04-0.6"	±0.002mm	26210-310	26220-310
5-20mm / 0.2-0.8"	±0.002mm	26210-320	26220-320
20-35mm / 0.8-1.4"	±0.003mm	26210-330	26220-330
35-50mm / 1.4-2.0"	±0.003mm	26210-340	26220-340
50-65mm / 2.0-2.6"	±0.003mm	26210-350	26220-350
65-80mm / 2.6-3.2"	±0.003mm	26210-360	26220-360
80-95mm / 3.2-3.8"	±0.004mm	26210-370	26220-370
2.3-25mm / 0.09-1"	±0.002mm	26211-310	26221-310
25-50mm / 1-2"	±0.003mm	26211-320	26221-320
5 Flutes			
5-25mm / 0.2-1.0"	±0.002mm	26210-510	26220-510
25-45mm / 1.0-1.8"	±0.003mm	26210-520	26220-520
45-65mm / 1.8-2.6"	±0.003mm	26210-530	26220-530
65-85mm / 2.6-3.4"	±0.004mm	26210-540	26220-540
85-105mm / 3.4-4.2"	±0.004mm	26210-550	26220-550
7 Flutes			
5-25mm / 0.2-1.0"	±0.002mm	26210-710	26220-710
25-45mm / 1.0-1.8"	±0.003mm	26210-720	26220-720
45-65mm / 1.8-2.6"	±0.003mm	26210-730	26220-730
65-85mm / 2.6-3.4"	±0.004mm	26210-740	26220-740

V-Anvil Micrometer

Features:

- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers, end mills
- Carbide measuring faces
- Criterion DIN40050/IEC529
- Graduation: 0.01mm / 0.001"



Range	Accuracy	Code No. Metric	Code No. Inch
3 Flutes			
1-15mm / 0.04-0.6"	0.004mm	26010-310	26020-310
5-20mm / 0.2-0.8"	0.004mm	26010-320	26020-320
20-35mm / 0.8-1.4"	0.005mm	26010-330	26020-330
35-50mm / 1.4-2.0"	0.005mm	26010-340	26020-340
50-65mm / 2.0-2.6"	0.006mm	26010-350	26020-350
65-80mm / 2.6-3.2"	0.006mm	26010-360	26020-360
80-95mm / 3.2-3.8"	0.007mm	26010-370	26020-370
2.3-25mm / 0.09-1"	0.004mm	26011-310	26021-310
25-50mm / 1-2"	0.005mm	26011-320	26021-320
5 Flutes			
5-25mm / 0.2-1.0"	0.004mm	26010-510	26020-510
25-45mm / 1.0-1.8"	0.005mm	26010-520	26020-520
45-65mm / 1.8-2.6"	0.006mm	26010-530	26020-530
65-85mm / 2.6-3.4"	0.007mm	26010-540	26020-540
85-105mm / 3.4-4.2"	0.008mm	26010-550	26020-550
7 Flutes			
5-25mm / 0.2-1.0"	0.004mm	26010-710	26020-710
25-45mm / 1.0-1.8"	0.005mm	26010-720	26020-720
45-65mm / 1.8-2.6"	0.006mm	26010-730	26020-730
65-85mm / 2.6-3.4"	0.007mm	26010-740	26020-740

2-Button Digital Micrometer Head

IP65

Features:

- IP65 protection level
- Carbide tipped measuring face
- 12mm diameter mounting stem.
- Clamp nut is optional
- Spherical measuring face is optional



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	21211-010H	21221-010H
0-50mm/0-2"	0.001mm/0.00005"	0.005mm/0.0002"	21211-020H	21221-020H

4-Button Digital Micrometer Head

Features:

- Resolution: .00005" / 0.001mm
- Carbide tipped measuring face
- 10mm and 12mm mounting stem diameter optional.
- Thread stem and clamp nut are optional



Range	Resolution	Accuracy	Stem Diameter	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	10mm	21015-010H
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	12mm	21015-012H

IP65 Digital Micrometer Head



Features:

- IP65 protection level
- Carbide tipped measuring face
- 12mm mounting stem diameter, with clamp nut
- SPC data output port (DCB-02, DWB-02, DWB-05)
- Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	21215-010H

Digital Micrometer Head

Features:

- Extra-large LCD readout
- Carbide tipped measuring face
- 12mm mounting stem diameter
- Spherical measuring face is optional



Range	Resolution	Accuracy	Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	21012-010H

2-Button Digital Micrometer Head

IP65

Features:

- IP65 protection level
- Carbide tipped measuring face
- 12mm diameter mounting stem. 9.5mm diameter mounting stem is optional
- With clamp nut
- Spherical measuring face is optional



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	21212-010H	21222-010H
0-50mm/0-2"	0.001mm/0.00005"	0.005mm/0.0002"	21212-020H	21222-020H

Depth Micrometer

Features:

- Run through interchangeable rods
- Resolution 0.01mm (Metric) / 0.001" (Inch)
- Flat end
- Ratchet stop



Base width = 102mm

Range	Accuracy	Range	Accuracy	Rods Qty.	Metric	Inch
0-150mm	0.005mm	0-6"	±.0002"	6	25012-150	25022-150

Digital Depth Micrometer

Features:

- Interchangeable rods
- Resolution 0.001mm / 0.00005"
- Flat end
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



Base width = 102mm

Range	Accuracy	Range	Accuracy	Rods Qty.	Metric	Inch
0-150mm	0.005mm	0-6"	±.0002"	6	25212-150	25222-150

Depth Micrometer

Features:

- Run through interchangeable rods, provide wide measuring range.
- Resolution 0.01mm (Metric) / 0.001" (Inch)
- Micrometers doesn't not need be reset after precision rods are interchanged
- Flat end (Spherical end is optional)
- Ratchet stop



Base width = 63.0mm

Metric		Inch			Code No.	
Range	Accuracy	Range	Accuracy	Rods Qty.	Metric	Inch
0-25mm	±0.004mm	0-1"	±.00016"	1	25010-020	25020-020
0-50mm	±0.004mm	0-2"	±.00016"	2	25010-050	25020-050
0-100mm	±0.005mm	0-4"	±.00020"	4	25010-100	25020-100
0-150mm	±0.005mm	0-6"	±.00020"	6	25010-150	25020-150
0-200mm	±0.006mm	0-8"	±.00024"	8	25010-200	25020-200
0-300mm	±0.007mm	0-12"	±.00028"	12	25010-300	25020-300

Base width = 101.5mm

Metric		Inch			Code No.	
Range	Accuracy	Range	Accuracy	Rods Qty.	Metric	Inch
0-25mm	±0.004mm	0-1"	±.00016"	1	25011-020	25021-020
0-50mm	±0.004mm	0-2"	±.00016"	2	25011-050	25021-050
0-100mm	±0.005mm	0-4"	±.00020"	4	25011-100	25021-100
0-150mm	±0.005mm	0-6"	±.00020"	6	25011-150	25021-150
0-200mm	±0.006mm	0-8"	±.00024"	8	25011-200	25021-200
0-300mm	±0.007mm	0-12"	±.00028"	12	25011-300	25021-300

IP65 Digital Depth Micrometer

IP65

Features:

- Interchangeable rods provide wide measuring range.
- Resolution 0.001mm /0.0005"
- Micrometers doesn't not need be reset after precision rods are interchanged
- Flat end (Spherical end is optional)
- Ratchet stop and ratchet thimble are optional
- IP65 production level



Base width = 63.0mm

Metric		Inch			Code No.	
Range	Accuracy	Range	Accuracy	Rods Qty.	Metric	Inch
0-25mm	±0.004mm	0-1"	±.00016"	1	25210-020	25220-020
0-50mm	±0.004mm	0-2"	±.00016"	2	25210-050	25220-050
0-100mm	±0.005mm	0-4"	±.00020"	4	25210-100	25220-100
0-150mm	±0.005mm	0-6"	±.00020"	6	25210-150	25220-150
0-200mm	±0.006mm	0-8"	±.00024"	8	25210-200	25220-200
0-300mm	±0.007mm	0-12"	±.00028"	12	25210-300	25220-300

Base width = 101.5mm

Metric		Inch			Code No.	
Range	Accuracy	Range	Accuracy	Rods Qty.	Metric	Inch
0-25mm	±0.004mm	0-1"	±.00016"	1	25211-020	25221-020
0-50mm	±0.004mm	0-2"	±.00016"	2	25211-050	25221-050
0-100mm	±0.005mm	0-4"	±.00020"	4	25211-100	25221-100
0-150mm	±0.005mm	0-6"	±.00020"	6	25211-150	25221-150
0-200mm	±0.006mm	0-8"	±.00024"	8	25211-200	25221-200
0-300mm	±0.007mm	0-12"	±.00028"	12	25211-300	25221-300

Digital Inside Micrometer

IP65

Features

- For measuring various inside dimensions
- IP65 protection level
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50/1-2" micrometers furnished with setting ring



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
5-30mm/0.2-1.2"	0.001mm/0.00005"	±0.003mm/0.00015"	24011-010	24021-010
25-50mm/1-2"	0.001mm/0.00005"	±0.003mm/0.00015"	24011-020	24021-020
50-75mm/2-3"	0.001mm/0.00005"	±0.004mm/0.00015"	24011-030	24021-030
75-100mm/3-4"	0.001mm/0.00005"	±0.004mm/0.00015"	24011-040	24021-040
100-125mm/4-5"	0.001mm/0.00005"	±0.005mm/0.0002"	24011-050	24021-050
125-150mm/5-6"	0.001mm/0.00005"	±0.005mm/0.0002"	24011-060	24021-060

Mechanical Inside Micrometer

Features

- For measuring various inside dimensions
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50mm/1-2" micrometers furnished with setting ring
- Ratchet stop



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
5-30mm/0.2-1.2"	0.01mm/0.001"	±0.005mm/0.0002"	24211-010	24221-010
25-50mm/1-2"	0.01mm/0.001"	±0.006mm/0.00024"	24211-020	24221-020
50-75mm/2-3"	0.01mm/0.001"	±0.007mm/0.00028"	24211-030	24221-030
75-100mm/3-4"	0.01mm/0.001"	±0.008mm/0.00032"	24211-040	24221-040
100-125mm/4-5"	0.01mm/0.001"	±0.009mm/0.0036"	24211-050	24221-050
125-150mm/5-6"	0.01mm/0.001"	±0.009mm/0.0036"	24211-060	24221-060

Digital Inside Micrometer

Features

- For measuring various inside dimensions
- IP65 protection level
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50/1-2" micrometers furnished with setting ring
- Built-in rechargeable lithium battery
- SPC data output port. Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
5-30mm/0.2-1.2"	0.001mm/0.00005"	±0.005mm/0.0002"	24012-010	24022-010
25-50mm/1-2"	0.001mm/0.00005"	±0.006mm/0.00025"	24012-020	24022-020
50-75mm/2-3"	0.001mm/0.00005"	±0.007mm/0.0003"	24012-030	24022-030
75-100mm/3-4"	0.001mm/0.00005"	±0.008mm/0.0003"	24012-040	24022-040
100-125mm/3-4"	0.001mm/0.00005"	±0.009mm/0.00035"	24012-050	24022-050
125-150mm/4-5"	0.001mm/0.00005"	±0.009mm/0.00035"	24012-060	24022-060

Mechanical Inside Micrometer

Features

- For measuring various inside dimensions
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50/1-2" micrometers furnished with setting ring
- Ratchet stop



Range	Resolution	Accuracy	Metric Code No.	Inch Code No.
5-30mm/0.2-1.2"	0.01mm/0.001"	±0.005mm/0.0002"	24212-010	24222-010
25-50mm/1-2"	0.01mm/0.001"	±0.006mm/0.00025"	24212-020	24222-020
50-75mm/2-3"	0.01mm/0.001"	±0.007mm/0.0003"	24212-030	24222-030
75-100mm/3-4"	0.01mm/0.001"	±0.008mm/0.0003"	24212-040	24222-040
100-125mm/3-4"	0.01mm/0.001"	±0.009mm/0.00035"	24212-050	24222-050
125-150mm/4-5"	0.01mm/0.001"	±0.009mm/0.00035"	24212-060	24222-060

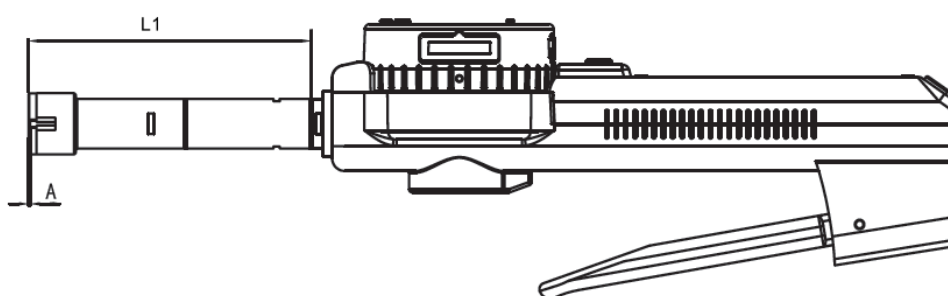
Grip 3 Points Internal Micrometer (6-100mm)

Features:

- Absolute capacitive measurement system
- Resolution: 0.001mm / 0.00005"
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points (12mm above)
- Display can be rotated within 330 degree for easy reading
- Setting ring for origin point setting is optional
- Extension rod is optional
- With data output port (DCB-01, DWB-01)
- Built-in bluetooth for data transmission is optional



Range	Accuracy	Setting Ring (optional)	L1	A	Extension Rod (optional)	Code No.
6-8mm	0.004mm	8mm	55mm	1.0mm	100mm	41003-008
8-10mm	0.004mm	8mm	55mm	1.5mm	100mm	41003-010
10-12mm	0.004mm	12mm	55mm	1.5mm	100mm	41003-012
12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	41003-016
16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	41003-020
20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	41003-025
25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	41003-030
30-40mm	0.004mm	40mm	105mm	0.5mm	150mm	41003-040
40-50mm	0.004mm	40mm	105mm	0.5mm	150mm	41003-050
50-63mm	0.005mm	62mm	127mm	0.5mm	150mm	41003-063
62-75mm	0.005mm	62mm	127mm	0.5mm	150mm	41003-075
75-88mm	0.005mm	87mm	127mm	0.5mm	150mm	41003-088
87-100mm	0.005mm	87mm	127mm	0.5mm	150mm	41003-100



Pistol Grip 3 Points Internal Micrometer (6-300mm)



Features:

- Absolute capacitive measurement system
- Resolution: 0.001mm / 0.00005"
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points (12mm above)
- Display can be rotated by 90 degree
- Setting ring for origin point setting is optional
- Extension rod is optional
- With data output port (DCB-01, DWB-01)
- Built-in bluetooth for data transmission is optional



Range	Accuracy	Setting Ring (optional)	L1	A	Extension Rod (optional)	Code No.
6-8mm	0.004mm	8mm	55mm	1.0mm	100mm	41002-008
8-10mm	0.004mm	8mm	55mm	1.5mm	100mm	41002-010
10-12mm	0.004mm	12mm	55mm	1.5mm	100mm	41002-012
12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	41002-016
16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	41002-020
20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	41002-025
25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	41002-030
30-40mm	0.004mm	40mm	105mm	0.5mm	150mm	41002-040
40-50mm	0.004mm	40mm	105mm	0.5mm	150mm	41002-050
50-63mm	0.005mm	62mm	127mm	0.5mm	150mm	41002-063
62-75mm	0.005mm	62mm	127mm	0.5mm	150mm	41002-075
75-88mm	0.005mm	87mm	127mm	0.5mm	150mm	41002-088
87-100mm	0.005mm	87mm	127mm	0.5mm	150mm	41002-100
100-125mm	0.005mm	125mm	156mm	1.0mm	150mm	41002-125
125-150mm	0.005mm	125mm	156mm	1.0mm	150mm	41002-150
150-175mm	0.006mm	175mm	156mm	1.0mm	150mm	41002-175
175-200mm	0.006mm	175mm	156mm	1.0mm	150mm	41002-200
200-225mm	0.007mm	225mm	156mm	1.0mm	150mm	41002-225
225-250mm	0.007mm	225mm	156mm	1.0mm	150mm	41002-250
250-275mm	0.008mm	275mm	156mm	1.0mm	150mm	41002-275
275-300mm	0.008mm	275mm	156mm	1.0mm	150mm	41002-300

Pistol Grip 3 Points Internal Micrometer (6-100mm)

Features:

- Single hand operation, fit for both hands;
- Measurement can be taken closer to the bottom of blind hole, and can measure deep hole with extension rod
- Carbide-tipped contact points
- Supplier with setting rings and digital indicator



Range	Accuracy	Setting Rings	Extension Rods	Code No.
Metric				
6-8mm	0.004mm	6mm	100mm	41112-008
8-10mm	0.004mm	8mm	100mm	41112-010
10-12mm	0.004mm	10mm	100mm	41112-012
12-16mm	0.004mm	16mm	150mm	41112-016
16-20mm	0.004mm	16mm	150mm	41112-020
20-25mm	0.004mm	25mm	150mm	41112-025
25-30mm	0.004mm	25mm	150mm	41112-030
30-40mm	0.004mm	40mm	150mm	41112-040
40-50mm	0.005mm	40mm	150mm	41112-050
50-63mm	0.005mm	62mm	150mm	41112-063
62-75mm	0.005mm	62mm	150mm	41112-075
75-88mm	0.005mm	87mm	150mm	41112-088
87-100mm	0.005mm	87mm	150mm	41112-100
Inch				
0.275-0.35"	0.00016"	0.275"	4"	41122-003
0.35-0.425"	0.00016"	0.35"	4"	41122-004
0.425-0.5"	0.00016"	0.5"	4"	41122-005
0.5-0.65"	0.00016"	0.65"	6"	41122-006
0.65-0.8"	0.00016"	0.65"	6"	41122-008
0.8-1"	0.00016"	1"	6"	41122-010
1-1.2"	0.00016"	1"	6"	41122-012
1.2-1.6"	0.00016"	1.6"	6"	41122-016
1.6-2"	0.0002"	1.6"	6"	41122-020
2-2.5"	0.0002"	2.5"	6"	41122-025
2.5-3"	0.0002"	2.5"	6"	41122-030
3-3.5"	0.0002"	3.5"	6"	41122-035
3.5-4"	0.0002"	3.5"	6"	41122-040

Digital 3 Points Internal Micrometer (6-300mm)



Features:

- Resolution: 0.001mm / 0.00005"
- Measurement can be taken close to the bottom of blind hole
- Carbide-tipped contact points (for over 12mm)
- SPC data output function
- Setting rings for origin point setting are optional
- Extension rod is optional
- Built in wireless transmission function is optional
- Measuring range up to 300mm



Range	Accuracy	Setting Ring (optional)	L1	A	Extension Rod (optional)	Code No.
6-8mm	0.004mm / 0.00015"	8mm	55mm	1.0mm	100mm	41001-008
8-10mm	0.004mm / 0.00015"	8mm	55mm	1.5mm	100mm	41001-010
10-12mm	0.004mm / 0.00015"	12mm	55mm	1.5mm	100mm	41001-012
12-16mm	0.004mm / 0.00015"	16mm	80mm	0.5mm	150mm	41001-016
16-20mm	0.004mm / 0.00015"	16mm	80mm	0.5mm	150mm	41001-020
20-25mm	0.004mm / 0.00015"	25mm	90mm	0.5mm	150mm	41001-025
25-30mm	0.004mm / 0.00015"	25mm	90mm	0.5mm	150mm	41001-030
30-40mm	0.004mm / 0.00015"	40mm	105mm	0.5mm	150mm	41001-040
40-50mm	0.004mm / 0.00015"	40mm	105mm	0.5mm	150mm	41001-050
50-63mm	0.005mm / 0.0002"	62mm	127mm	0.5mm	150mm	41001-063
62-75mm	0.005mm / 0.0002"	62mm	127mm	0.5mm	150mm	41001-075
75-88mm	0.005mm / 0.0002"	87mm	127mm	0.5mm	150mm	41001-088
87-100mm	0.005mm / 0.0002"	87mm	127mm	0.5mm	150mm	41001-100
100-125mm	0.005mm / 0.0002"	125mm	156mm	1.0mm	150mm	41001-125
125-150mm	0.005mm / 0.0002"	125mm	156mm	1.0mm	150mm	41001-150

Set

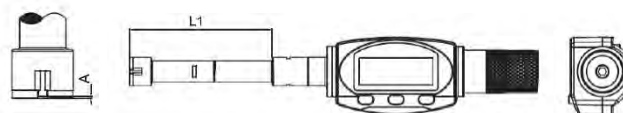
Range	Set Ring	Extension Rod	Code No.
6-12mm / 0.275-0.5"	8mm, 12mm	100mm	41001-0612
12-20mm / 0.5-0.8"	16mm	150mm	41001-1220
20-50mm / 0.8-2"	25mm, 40mm	150mm	41001-2050
50-100mm / 2-4"	62mm, 87mm	150mm	41001-5000

IP65 Digital 3 Points Internal Micrometer (6-300mm)



Features:

- Resolution: 0.001mm / 0.00005"
- IP65 protection Level
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points (12mm above)
- Setting ring for origin point setting is optional
- Extension rod is optional
- Built-in bluetooth for data transmission is optional



Range	Accuracy	Setting Ring (optional)	L1	A	Extension Rod (optional)	Code No.
6-8mm	0.004mm	8mm	55mm	1.0mm	100mm	41004-008
8-10mm	0.004mm	8mm	55mm	1.5mm	100mm	41004-010
10-12mm	0.004mm	12mm	55mm	1.5mm	100mm	41004-012
12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	41004-016
16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	41004-020
20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	41004-025
25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	41004-030
30-40mm	0.004mm	40mm	105mm	0.5mm	150mm	41004-040
40-50mm	0.004mm	40mm	105mm	0.5mm	150mm	41004-050
50-63mm	0.005mm	62mm	127mm	0.5mm	150mm	41004-063
62-75mm	0.005mm	62mm	127mm	0.5mm	150mm	41004-075
75-88mm	0.005mm	87mm	127mm	0.5mm	150mm	41004-088
87-100mm	0.005mm	87mm	127mm	0.5mm	150mm	41004-100
100-125mm	0.005mm	125mm	156mm	1.0mm	150mm	41004-125
125-150mm	0.005mm	125mm	156mm	1.0mm	150mm	41004-150
150-175mm	0.006mm	175mm	156mm	1.0mm	150mm	41004-175
175-200mm	0.006mm	175mm	156mm	1.0mm	150mm	41004-200
200-225mm	0.007mm	225mm	156mm	1.0mm	150mm	41004-225
225-250mm	0.007mm	225mm	156mm	1.0mm	150mm	41004-250
250-275mm	0.008mm	275mm	156mm	1.0mm	150mm	41004-275
275-300mm	0.008mm	275mm	156mm	1.0mm	150mm	41004-300

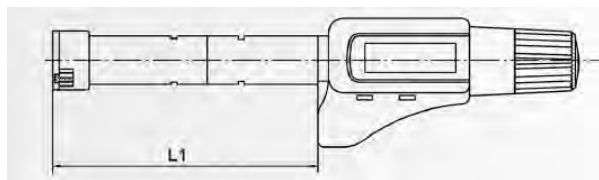
Digital 2 Points Internal Micrometer (2-6mm)

Features

- Resolution: Metric: 0.001mm / Inch: 0.00005"
- IP54 protection level
- Carbide tipped measuring faces
- Ratchet stop
- Supplied with setting rings
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Packed in Aluminum box



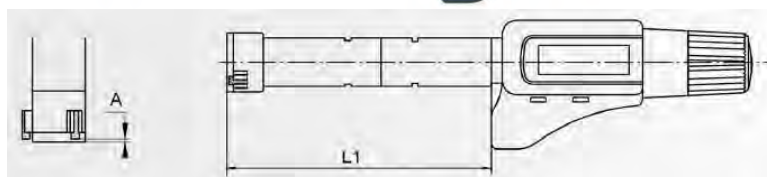
Range	Accuracy	Setting Rings	L1	Code No.
Metric				
2-2.5mm	0.004mm	2.5mm	12.5mm	41111-002
2.5-3mm	0.004mm	2.5mm	12.5mm	41111-003
3-4mm	0.004mm	4mm	22.5mm	41111-004
4-5mm	0.004mm	5mm	22.5mm	41111-005
5-6mm	0.004mm	6mm	22.5mm	41111-006
Inch				
0.08-0.1"	0.00016"	0.1"	0.5"	41121-210
0.1-0.12"	0.00016"	0.1"	0.5"	41121-212
0.12-0.16"	0.00016"	0.16"	0.9"	41121-216
0.16-0.2"	0.00016"	0.16"	0.9"	41121-220
0.2-0.24"	0.00016"	0.24"	0.9"	41121-224
0.24-0.28"	0.00016"	0.24"	0.9"	41121-228



Digital 3 Points Internal Micrometer (6-100mm)

Features:

- Resolution: Metric: 0.001mm / Inch: 0.00005"
- IP54 protection Level
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points.
- Supplied with setting ring

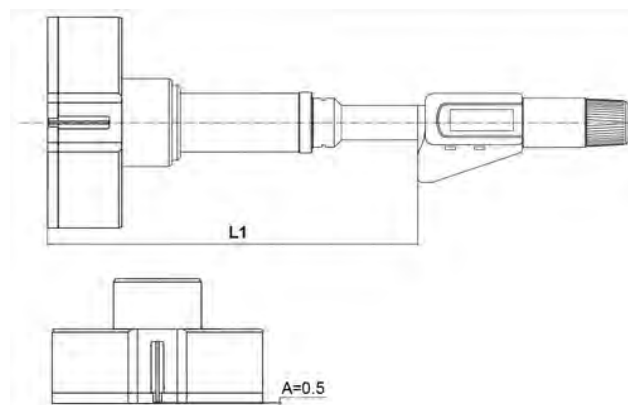


Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.
Metric						
6-8mm	0.004mm	6mm	54.5mm	1.5mm	100mm	41111-008
8-10mm	0.004mm	8mm	54.5mm	1.5mm	100mm	41111-010
10-12mm	0.004mm	10mm	54.5mm	1.5mm	100mm	41111-012
12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	41111-016
16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	41111-020
20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	41111-025
25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	41111-030
30-40mm	0.004mm	40mm	97mm	0.5mm	150mm	41111-040
40-50mm	0.005mm	40mm	97mm	0.5mm	150mm	41111-050
50-63mm	0.005mm	62mm	114mm	0.5mm	150mm	41111-063
62-75mm	0.005mm	62mm	114mm	0.5mm	150mm	41111-075
75-88mm	0.005mm	87mm	114mm	0.5mm	150mm	41111-088
87-100mm	0.005mm	87mm	114mm	0.5mm	150mm	41111-100
Inch						
0.275-0.35"	0.00016"	0.275"	2.18"	0.06"	4"	41121-003
0.35-0.425"	0.00016"	0.35"	2.18"	0.06"	4"	41121-004
0.425-0.5"	0.00016"	0.5"	2.18"	0.06"	4"	41121-005
0.5-0.65"	0.00016"	0.65"	3.2"	0.02"	6"	41121-006
0.65-0.8"	0.00016"	0.65"	3.2"	0.02"	6"	41121-008
0.8-1"	0.00016"	1"	3.6"	0.02"	6"	41121-010
1-1.2"	0.00016"	1"	3.6"	0.02"	6"	41121-012
1.2-1.6"	0.00016"	1.6"	3.88"	0.02"	6"	41121-016
1.6-2"	0.0002"	1.6"	3.88"	0.02"	6"	41121-020
2-2.5"	0.0002"	2.5"	4.56"	0.02"	6"	41121-025
2.5-3"	0.0002"	2.5"	4.56"	0.02"	6"	41121-030
3-3.5"	0.0002"	3.5"	4.56"	0.02"	6"	41121-035
3.5-4"	0.0002"	3.5"	4.56"	0.02"	6"	41121-040

Digital 3 Points Internal Micrometer (100-300mm)

Features:

- Resolution: Metric: 0.001mm / Inch: 0.00005"
- IP54 protection Level
- Measurement can be taken closer to the bottom of blind bore, and can measure deep hole with extension rod
- Carbide-tipped contact points.
- Additional extension can be added to increase the measuring depth
- Ratchet stop
- Setting rings are not included but optional
- Packed in Aluminum box



Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.
Metric					
100-125mm	0.005mm	100mm	150mm	150mm	41111-125
125-150mm	0.005mm	125mm	150mm	150mm	41111-150
150-175mm	0.005mm	150mm	150mm	150mm	41111-175
175-200mm	0.005mm	175mm	150mm	150mm	41111-200
200-225mm	0.007mm	200mm	150mm	150mm	41111-225
225-250mm	0.007mm	225mm	150mm	150mm	41111-250
250-275mm	0.007mm	250mm	150mm	150mm	41111-275
275-300mm	0.007mm	275mm	150mm	150mm	41111-300
Inch					
4-5"	0.0002"	Ø 4.5"	6"	6"	41121-050
5-6"	0.0002"	Ø 5.5"	6"	6"	41121-060
6-7"	0.0002"	Ø 6.5"	6"	6"	41121-070
7-8"	0.0002"	Ø 7.5"	6"	6"	41121-080
8-9"	0.00028"	Ø 8.5"	6"	6"	41121-090
9-10"	0.00028"	Ø 9.5"	6"	6"	41121-100
10-11"	0.00028"	Ø 10.5"	6"	6"	41121-110
11-12"	0.00028"	Ø 11.5"	6"	6"	41121-120

Mechanical 2 Points Internal Micrometer (2-6mm)

Features:

- Graduation: 0.001mm
- Measurement can be taken closer to the bottom of blind hole, and can measure deep hole with extension rod
- Carbide-tipped contact points
- Ratchet stop
- Supplied with setting ring
- Packed in Aluminum box



Range	Graduation	Accuracy	Setting Rings	L1	Code No.
Metric					
2-2.5mm	0.001mm	0.004mm	2.5mm	12.5mm	43011-002
2.5-3mm	0.001mm	0.004mm	2.5mm	12.5mm	43011-003
3-4mm	0.001mm	0.004mm	4mm	22.5mm	43011-004
4-5mm	0.001mm	0.004mm	5mm	22.5mm	43011-005
5-6mm	0.001mm	0.004mm	6mm	22.5mm	43011-006
Inch					
0.08-0.1"	0.0001"	0.00016"	0.1"	0.5"	43021-210
0.1-0.12"	0.0001"	0.00016"	0.1"	0.5"	43021-212
0.12-0.16"	0.0001"	0.00016"	0.16"	0.9"	43021-216
0.16-0.2"	0.0001"	0.00016"	0.16"	0.9"	43021-220
0.2-0.24"	0.0001"	0.00016"	0.24"	0.9"	43021-224
0.24-0.28"	0.0001"	0.00016"	0.24"	0.9"	43021-228

Mechanical 3 Points Internal Micrometer (6-100mm)

Features:

- Graduation: 0.001mm
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points
- Ratchet stop
- Supplied with setting ring



Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.
Metric						
6-8mm	0.004mm	6mm	54.5mm	1.5mm	100mm	43011-008
8-10mm	0.004mm	8mm	54.5mm	1.5mm	100mm	43011-010
10-12mm	0.004mm	10mm	54.5mm	1.5mm	100mm	43011-012
12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	43011-016
16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	43011-020
20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	43011-025
25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	43011-030
30-40mm	0.004mm	40mm	97mm	0.5mm	150mm	43011-040
40-50mm	0.005mm	40mm	97mm	0.5mm	150mm	43011-050
50-63mm	0.005mm	62mm	114mm	0.5mm	150mm	43011-063
62-75mm	0.005mm	62mm	114mm	0.5mm	150mm	43011-075
75-88mm	0.005mm	87mm	114mm	0.5mm	150mm	43011-088
87-100mm	0.005mm	87mm	114mm	0.5mm	150mm	43011-100
Inch						
0.275-0.35"	0.00016"	0.275"	2.18"	0.06"	4"	43021-003
0.35-0.425"	0.00016"	0.35"	2.18"	0.06"	4"	43021-004
0.425-0.5"	0.00016"	0.5"	2.18"	0.06"	4"	43021-005
0.5-0.65"	0.00016"	0.65"	3.2"	0.02"	6"	43021-006
0.65-0.8"	0.00016"	0.65"	3.2"	0.02"	6"	43021-008
0.8-1"	0.00016"	1"	3.6"	0.02"	6"	43021-010
1-1.2"	0.00016"	1"	3.6"	0.02"	6"	43021-012
1.2-1.6"	0.00016"	1.6"	3.88"	0.02"	6"	43021-016
1.6-2"	0.0002"	1.6"	3.88"	0.02"	6"	43021-020
2-2.5"	0.0002"	2.5"	4.56"	0.02"	6"	43021-025
2.5-3"	0.0002"	2.5"	4.56"	0.02"	6"	43021-003
3-3.5"	0.0002"	3.5"	4.56"	0.02"	6"	43021-035
3.5-4"	0.0002"	3.5"	4.56"	0.02"	6"	43021-040

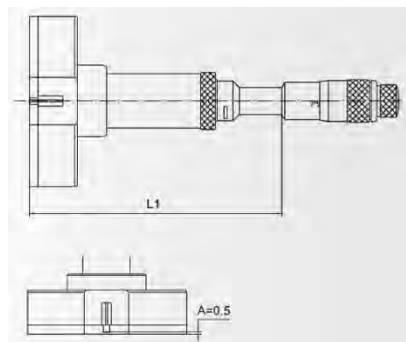
Mechanical 3 Points Internal Micrometer (100-300mm)

Features:

- Graduation: 0.001mm
- Measurement can be taken closer to the bottom of blind hole, and can measure deep hole with extension rod
- Carbide-tipped contact points
- Ratchet stop
- Setting rings are not included but optional



Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.
Metric					
100-125mm	0.005mm	100mm	145mm	150mm	43011-125
125-150mm	0.005mm	125mm	145mm	150mm	43011-150
150-175mm	0.005mm	150mm	145mm	150mm	43011-175
175-200mm	0.005mm	175mm	145mm	150mm	43011-200
200-225mm	0.007mm	200mm	145mm	150mm	43011-225
225-250mm	0.007mm	225mm	145mm	150mm	43011-250
250-275mm	0.007mm	250mm	145mm	150mm	43011-275
275-300mm	0.007mm	275mm	145mm	150mm	43011-300
Inch					
4-5"	0.0002"	4"	5.8"	6"	43021-050
5-6"	0.0002"	5"	5.8"	6"	43021-060
6-7"	0.0002"	6"	5.8"	6"	43021-070
7-8"	0.0002"	7"	5.8"	6"	43021-080
8-9"	0.00028"	8"	5.8"	6"	43021-090
9-10"	0.00028"	9"	5.8"	6"	43021-100
10-11"	0.00028"	10"	5.8"	6"	43021-110
11-12"	0.00028"	11"	5.8"	6"	43021-120



Digital Bore Gauge

Features:

- Movable probe pin with carbide ball
- Steel-hardened-tipped contact point for excellent durability
- 18-35mm range is with canister and fixed anvil
- Over 35mm range is with wheel guide and inserting anvils
- Changeable anvils for wide measuring ranges
- Equipped with digital indicator
- Dial plate can be rotated by 330°



Measuring Range	Resolution	Accuracy	Dial Travel	Probe Depth	Code No.
18-35mm	0.002mm	±0.015mm	6 mm	150mm	41011-018
35-50mm	0.002mm	±0.015mm	6 mm	150mm	41011-035
50-160mm	0.002mm	±0.018mm	6 mm	150mm	41011-050
160-250mm	0.002mm	±0.018mm	6 mm	250mm	41011-160
250-450mm	0.002mm	±0.018mm	6 mm	250mm	41011-250

Dial Bore Gauge

Features:

- Movable probe pin with carbide ball
- Steel-harden-tipped contact point for excellent durability
- 18-35mm and 35-50mm range are with canister and fixed anvil
- Over 50mm range is with wheel guide and inserting anvils
- Changeable anvils for wide measuring ranges
- Equipped with dial indicator



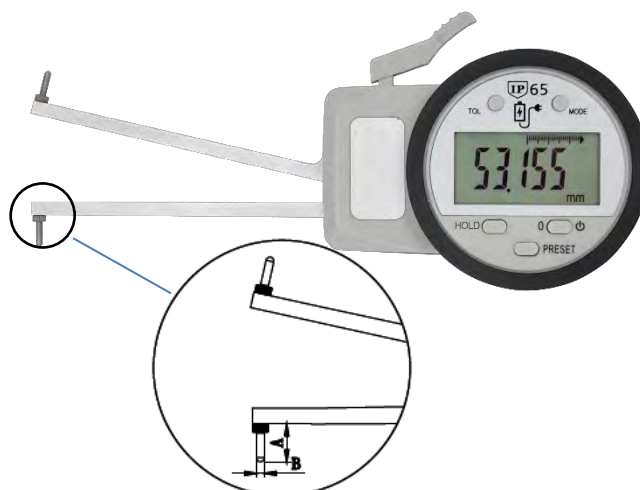
Measuring Range	Graduation	Accuracy	Dial Travel	Probe Depth	Code No.
18-35mm	0.01mm	±0.015mm	3 mm (AGD2)	150mm	42011-018
35-50mm	0.01mm	±0.015mm	3 mm (AGD2)	150mm	42011-035
50-160mm	0.01mm	±0.020mm	3 mm (AGD2)	150mm	42011-050
160-250mm	0.01mm	±0.020mm	3 mm (AGD2)	250mm	42011-160
250-450mm	0.01mm	±0.020mm	3 mm (AGD2)	250mm	42011-250

Inside Digital Caliper Gauge



Features:

- Designed to measure internal holes, grooves and other intricate internal characteristics
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- Carbide measuring anvil
- Built-in rechargeable lithium battery
- Built-in Bluetooth transmission is optional



Range	Resolution	Accuracy	Arm Length	Tip Length A	Code No.
5-15mm/0.2-0.6"	0.002mm/0.0001"	± 0.015mm/0.0006"	35mm	2.3mm	45121-0515
10-30mm/0.4-1.2"	0.005mm/0.0002"	± 0.025mm/0.001"	85mm	5.2mm	45121-1030
30-50mm/1.2-2"	0.005mm/0.0002"	± 0.025mm/0.001"	85mm	7.2mm	45121-3050
50-100mm/2-4"	0.010mm/0.0005"	± 0.05mm/0.002"	236mm	11.7mm	45121-50100
100-150mm/4-6"	0.010mm/0.0005"	± 0.05mm/0.002"	236mm	11.7mm	45121-10050
150-200mm/6-8"	0.010mm/0.0005"	± 0.05mm/0.002"	236mm	11.7mm	45121-15000

Inside Digital Caliper Gauge

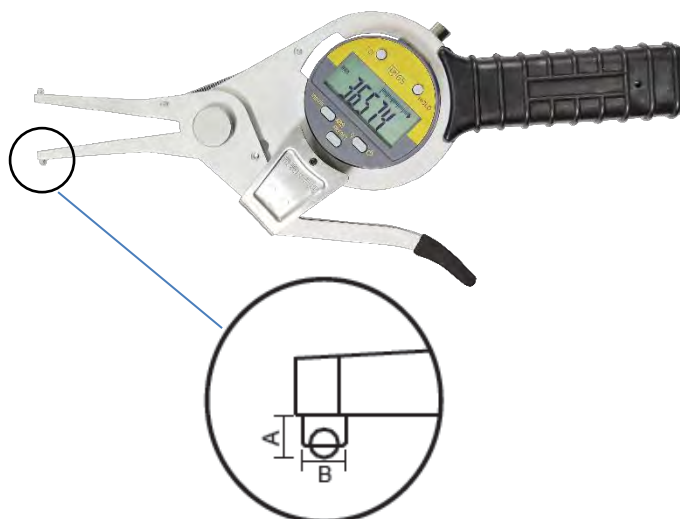


Data
Output

IP65

Features:

- Designed to measure internal holes, grooves and other intricate internal characteristics
- Graduation 0.001mm / 0.00005"
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- With data output port
- Carbide measuring anvil
- Built-in Bluetooth transmission is optional

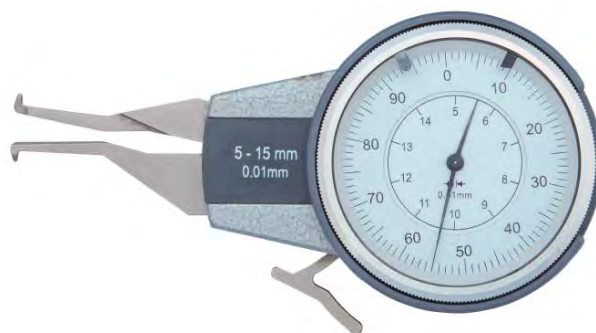


Range	Accuracy	Arm Length	Tip Length A	Code No.
15-35mm / 0.6-1.4"	$\pm 0.02\text{mm}/0.001"$	50mm	3mm	45120-1535
35-55mm / 1.4-2.2"	$\pm 0.02\text{mm}/0.001"$	80mm	6mm	45120-3555
55-75mm / 2.2-3.0"	$\pm 0.02\text{mm}/0.001"$	90mm	8mm	45120-5575
75-95mm / 3-3.8"	$\pm 0.02\text{mm}/0.001"$	100mm	8mm	45120-7595
95-115mm / 3.8-4.6"	$\pm 0.02\text{mm}/0.001"$	120mm	10mm	45120-95115
115-135mm / 4.6-5.4"	$\pm 0.02\text{mm}/0.001"$	120mm	10mm	45120-11535

Inside Dial Caliper Gauge

Features:

- Graduation 0.01mm
- Designed to measure internal holes, grooves and other intricate internal characteristics
- Big and clear dial plate for easy reading, with internal tolerance marker
- 10mm and 20mm trip type are optional



Range	Accuracy	Arm Length	Tip Length	Code No.
Trip: 10mm				
5-15mm	0.02mm	20mm	1.5mm	45010-0515
10-20mm	0.02mm	25mm	3.0mm	45010-1020
20-30mm	0.02mm	30mm	6.5mm	45010-2030
30-40mm	0.02mm	30mm	9.0mm	45010-3040
40-50mm	0.02mm	30mm	9.0mm	45010-4050
Trip: 20mm				
5-25mm	0.03mm	35mm	1.5mm	45020-0525
10-30mm	0.03mm	55mm	3.5mm	45020-1030
20-40mm	0.03mm	80mm	6.5mm	45020-2040
30-50mm	0.03mm	80mm	8.5mm	45020-3050
40-60mm	0.03mm	80mm	8.5mm	45020-4060

Inside Dial Caliper Gauge

Features:

- Graduation 0.01mm
- Designed to measure internal holes, grooves and other intricate internal characteristics
- Big and clear dial plate for easy reading

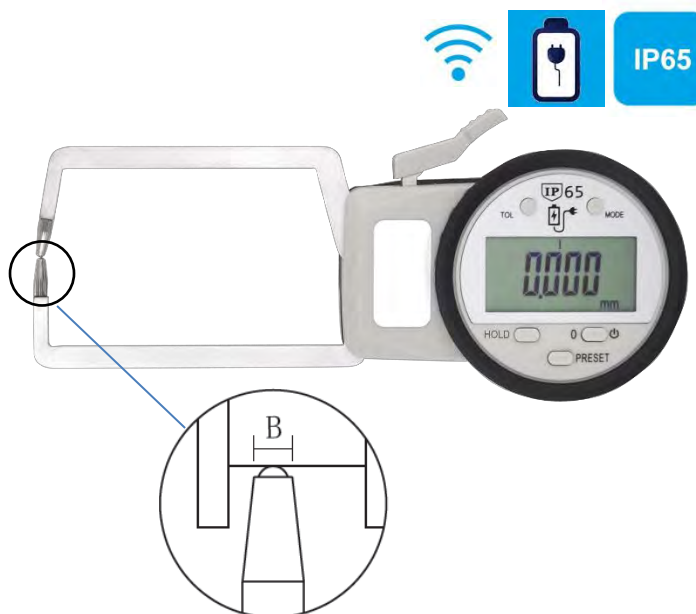


Range	Accuracy	Arm Length	Tip Length	Code No.
15-35mm	0.04mm	50mm	3mm	45021-1535
35-55mm	0.04mm	80mm	6mm	45021-3555
55-75mm	0.04mm	90mm	8mm	45021-5575
75-95mm	0.04mm	100mm	8mm	45021-7595
95-115mm	0.04mm	150mm	10mm	45021-95115
115-135mm	0.04mm	150mm	10mm	45021-11535
135-155mm	0.04mm	200mm	10mm	45021-13555
155-175mm	0.04mm	200mm	10mm	45021-15575
175-195mm	0.04mm	200mm	10mm	45021-17595

Outside Digital Caliper Gauge

Features:

- Designed to measure internal holes, grooves and other intricate internal characteristics
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- Carbide measuring anvil
- Built-in rechargeable lithium battery
- Built-in Bluetooth transmission is optional



Range	Resolution	Accuracy	Arm Length	Tip Length A	Code No.
0-10mm/0-0.4"	0.002mm/0.0001"	$\pm 0.01\text{mm}/0.0005"$	35mm	19.1mm	46121-0010
0-20mm/0-0.8"	0.005mm/0.0002"	$\pm 0.02\text{mm}/0.0008"$	85mm	24.7mm	46121-0020
0-30mm/0-1.2"	0.010mm/0.0005"	$\pm 0.03\text{mm}/0.0012"$	116mm	30mm	46121-0030
0-50mm/0-2"	0.010mm/0.0005"	$\pm 0.04\text{mm}/0.0016"$	167mm	30mm	46121-0050
0-100mm/0-4"	0.010mm/0.0005"	$\pm 0.07\text{mm}/0.003"$	382mm	35mm	46121-0100

Outside Digital Caliper Gauge

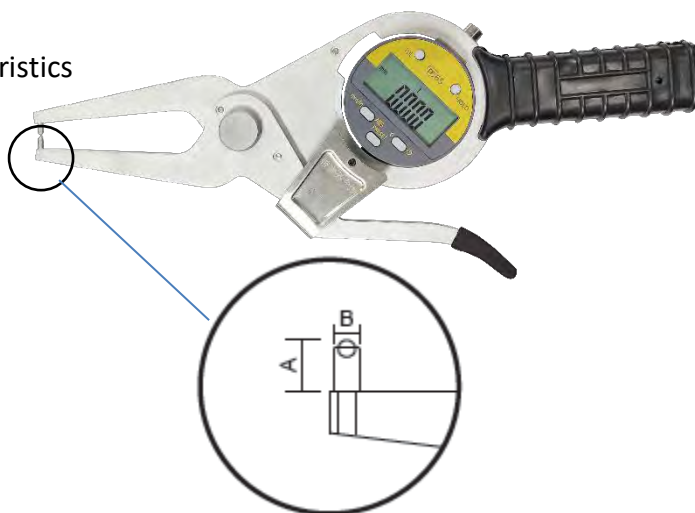


Data
Output

IP65

Features:

- Designed to measure outside diameter, ring grooves and other intricate outside characteristics
- Graduation 0.001mm / 0.00005"
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- With data output port
- Carbide measuring anvil
- Built-in Bluetooth transmission is optional

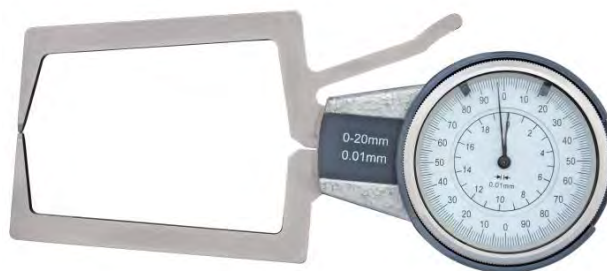


Range	Accuracy	Arm Length	Tip Length A	Code No.
0-20mm / 0-0.8"	±0.02mm/0.001"	60mm	6mm	46120-0020
20-40mm / 0.8-1.6"	±0.02mm/0.001"	60mm	6mm	46120-2040
40-60mm / 1.6-2.4"	±0.02mm/0.001"	55mm	6mm	46120-4060
60-80mm / 2.4-3.2"	±0.02mm/0.001"	55mm	6mm	46120-6080
80-100mm / 3.2-4"	±0.02mm/0.001"	55mm	6mm	46120-80100

Outside Dial Caliper Gauge

Features:

- Graduation 0.01mm
- Designed to measure outside diameter, ring grooves and other intricate outside characteristics
- Big and clear dial plate for easy reading, with internal tolerance marker
- 10mm and 20mm trip type are optional



Range	Accuracy	Arm Length	Tip Length	Code No.
Trip: 10mm				
0-10mm	0.02mm	40mm	8mm	46010-0010
10-20mm	0.02mm	40mm	8mm	46010-1020
20-30mm	0.02mm	40mm	8mm	46010-2030
30-40mm	0.02mm	40mm	8mm	46010-3040
40-50mm	0.02mm	40mm	8mm	46010-4050
Trip: 20mm				
0-20mm	0.03mm	80mm	25mm	46020-0020
10-30mm	0.03mm	80mm	25mm	46020-1030
20-40mm	0.03mm	80mm	25mm	46020-2040
30-50mm	0.03mm	80mm	25mm	46020-3050
40-60mm	0.03mm	80mm	25mm	46020-4060

Outside Dial Caliper Gauge

Features:

- Graduation 0.01mm
- Designed to measure outside diameter, ring grooves and other intricate outside characteristics
- Big and clear dial plate for easy reading



Range	Accuracy	Arm Length	Tip Length	Code No.
0-20mm	0.04mm	60mm	6mm	46021-0020
20-40mm	0.04mm	60mm	6mm	46021-2040
40-60mm	0.04mm	55mm	6mm	46021-4060
60-80mm	0.04mm	55mm	6mm	46021-6080
80-100mm	0.04mm	55mm	6mm	46021-80100
100-120mm	0.04mm	95mm	10mm	46021-10020
120-140mm	0.04mm	95mm	10mm	46021-12040
140-160mm	0.04mm	95mm	10mm	46021-14060
160-180mm	0.04mm	95mm	10mm	46021-16080
180-200mm	0.04mm	95mm	10mm	46021-18000

IP65 Digital Indicator

Features:

- Inductive measurement system
- IP65 protection level
- Analog display
- Tolerance set function and GO / NG judgement
- + / - direction set
- With Type-C data output port
- Rechargeable with Type-C port
- Built-in wireless transmission (optional)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-12.7mm/0- 0.5"	0.001mm/0.00005"	0.007mm/0.0003"	31311-050	31321-050
0-25.4mm/0-1"	0.001mm/0.00005"	0.008mm/0.0003"	31311-100	31321-100
0-50.8mm/0-2"	0.001mm/0.00005"	0.010mm/0.0004"	31311-200	31321-200

Absolute Digital Indicator

Features:

- Absolute capacitive system
- Absolute origin set at any position
- Analog display
- Resolution 0.0005mm
- Tolerance set function and GO / NG judgement
- + / - direction set
- With Type-C data output port
- Rechargeable with Type-C port
- Built-in wireless transmission (optional)
- 8mm stem diameter (3/8" stem optional)



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-12.7mm/0- 0.5"	0.0005mm/0.00002"	0.002mm/0.0001"	31212-050	31222-050
0-25.4mm/0-1"	0.0005mm/0.00002"	0.0025mm/0.0001"	31212-100	31222-100
0-50.8mm/0-2"	0.0005mm/0.00002"	0.003mm/0.00015"	31212-200	31222-200

IP65 Digital Indicator

Features:

- Inductive measurement system
- IP65 protection level
- Analog display
- Response speed 1.6m/s
- Repeatability 0.003mm / 0.0001"
- Tolerance set function and GO/NG judgement
- + / - direction set
- Auto power off
- With data output port (DCB-02, DWB-02, DWB-05)
- Built in wireless transmission is optional
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-12.7mm/0- 0.5"	0.001mm/.00005"	0.007mm/.0003"	31310-050	31320-050
0-25.4mm/0-1"	0.001mm/.00005"	0.008mm/.0003"	31310-100	31320-100
0-50.8mm/0-2"	0.001mm/.00005"	0.010mm/.0004"	31310-200	31320-200
0-100mm / 0-4"	0.001mm/.00005"	0.015mm/.0006"	31310-400	31320-400

Absolute Digital Indicator



Features:

- Absolute encoder sensor, no response speed limit
- Absolute origin set at any position
- Tolerance preset and GO/NG judgment
- “+” or “-” direction set
- With data output function
- Large easy read LCD display.
- Display can be rotated by 0° ~ 330°
- With data output port (DCB-01 / DWB-01)
- Build in wireless transmission (optional)
- 8mm stem diameter (3/8” stem diameter for inch)
- Can meet IP65 protection level



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-12.7mm/0-0.5"	0.001mm/0.00005"	0.004mm/.00015"	31211-050	31221-050
0-25.4mm/0-1.0"	0.001mm/0.00005"	0.004mm/.00015"	31211-100	31221-100
0-50.8mm/0-2.0"	0.001mm/0.00005"	0.005mm/.0002"	31211-200	31221-200
0-12.7mm/0-0.5"	0.01mm /0.0005"	0.01mm /.0005"	31211-051	31221-051
0-25.4mm/0-1.0"	0.01mm /0.0005"	0.01mm /.0005"	31211-101	31221-101
0-50.8mm/0-2.0"	0.01mm /0.0005"	0.015mm/.001"	31211-201	31221-201



Lifting bar



Lifting release



Lifting frame

IP54 / IP65 Digital Indicator

Features:

- With large digital display
- Preset real position value
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.		IP Rate
			Metric	Inch	
0-12.7mm/0- .5"	0.001mm/.00005"	0.004mm/.00015"	31112-050	31122-050	IP65
0-25.4mm/0-1.0"	0.001mm/.00005"	0.005mm/.0002"	31112-100	31122-100	IP54
0-50.8mm/0-2.0"	0.001mm/.00005"	0.006mm/.0002"	31112-200	31122-200	IP54
0-12.7mm/0- .5"	0.01mm /.0005"	0.02mm /.001"	31112-051	31122-051	IP65
0-25.4mm/0-1.0"	0.01mm /.0005"	0.02mm /.001"	31112-101	31122-101	IP54
0-50.8mm/0-2.0"	0.01mm /.0005"	0.02mm /.001"	31112-201	31122-201	IP54



Big Measuring Range Digital Indicator – 3 Buttons

Data
Output

Features:

- With large digital display
- The measurement range can be up to 100mm
- Preset real position value
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With data output port (DCB-05 / DWB-05)



Range	Resolution	Accuracy	Code No.		IP Rate
			Metric	Inch	
0-100mm/0-4.0"	0.001mm/.00005"	0.008mm /.0003"	31112-400	31122-400	IP54
0-100mm/0-4.0"	0.01mm /.0005"	0.03mm /.001"	31112-401	31122-401	IP54



Digital Indicator - 3 Buttons

Data
Output

Features:

- With large digital display
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Mini-USB data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-12.7mm/0-.5"	0.001mm/.00005"	0.004mm/0.00015"	31013-050	31023-050
0-25.4mm/0-1.0"	0.001mm/.00005"	0.005mm/0.0002"	31013-100	31023-100
0-50.8mm/0-2.0"	0.001mm/.00005"	0.006mm/0.0002"	31013-200	31023-200
0-12.7mm/0-.5"	0.01mm /.0005"	0.02mm /0.001"	31013-051	31023-051
0-25.4mm/0-1.0"	0.01mm /.0005"	0.02mm /0.001"	31013-101	31023-101
0-50.8mm/0-2.0"	0.01mm /.0005"	0.02mm /0.001"	31013-201	31023-201



Digital Indicator – 3 Buttons

Data
Output

Features:

- With large digital display
- 0.005/0.0005mm resolution
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Micro-USB data output port (DCB-15 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.		IP Rate
			Metric	Inch	
0-12.7mm/0- .5"	0.0005mm/.00002"	0.004mm/.00015"	31013-052	31023-052	IP54
0-25.4mm/0-1.0"	0.0005mm/.00002"	0.005mm/.0002"	31013-102	31023-102	IP54
0-50.8mm/0-2.0"	0.0005mm/.00002"	0.006mm/.0002"	31013-202	31023-202	IP54
0-12.7mm/0- .5"	0.005mm /.0002"	0.02mm /.001"	31013-053	31023-053	IP54
0-25.4mm/0-1.0"	0.005mm /.0002"	0.02mm /.001"	31013-103	31023-103	IP54
0-50.8mm/0-2.0"	0.005mm /.0002"	0.02mm /.001"	31013-203	31023-203	IP54



Digital Indicator - 5 Buttons

Data
Output

Features:

- With large digital display
- Preset real position value
- Metric-Inch conversion at any position
- Tolerance setting and automatic deviation judgment
- Run-out detection
- Max./min measurements searching and reservation
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Mini-USB data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No	
			Metric	Inch
0-12.7mm/0-.5"	0.001mm/.00005"	0.004mm/.00015"	31014-050	31024-050
0-25.4mm/0-1.0"	0.001mm/.00005"	0.005mm/.0002"	31014-100	31024-100
0-50.8mm/0-2.0"	0.001mm/.00005"	0.006mm/.0002"	31014-200	31024-200
0-12.7mm/0-.5"	0.01mm /.0005"	0.02mm /.001"	31014-051	31024-051
0-25.4mm/0-1.0"	0.01mm /.0005"	0.02mm /.001"	31014-101	31024-101
0-50.8mm/0-2.0"	0.01mm /.0005"	0.02mm /.001"	31014-201	31024-201



Digital Indicator – 5 Buttons

Data
Output

Features:

- With large digital display
- 0.005/0.0005mm resolution
- Preset real position value
- Metric-Inch conversion at any position
- Tolerance setting and automatic deviation judgment
- Run-out detection
- Max./min measurements searching and reservation
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Micro-USB data output port (DCB-15 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.		IP Rate
			Metric	Inch	
0-12.7mm/0- .5"	0.0005mm/.00002"	0.004mm/.00015"	31014-052	31024-052	IP54
0-25.4mm/0-1.0"	0.0005mm/.00002"	0.005mm/.0002"	31014-102	31024-102	IP54
0-50.8mm/0-2.0"	0.0005mm/.00002"	0.006mm/.0002"	31014-202	31024-202	IP54
0-12.7mm/0- .5"	0.005mm /.0002"	0.02mm /.001"	31014-053	31024-053	IP54
0-25.4mm/0-1.0"	0.005mm /.0002"	0.02mm /.001"	31014-103	31024-103	IP54
0-50.8mm/0-2.0"	0.005mm /.0002"	0.02mm /.001"	31014-203	31024-203	IP54



Digital Indicator – Analog

Data
Output

Features:

- Digital and analog bar display
- With large digital display
- Preset real position value
- Tolerance setting and automatic deviation judgment
- Run-out detection, storage of current measuring value
- Glass capacitive sensor
- Max. measurement speed over 1.5m/s
- The speed of value tracking 30times/s
- Absolute/incremental measurement
- Metric-inch conversion at any position
- Max./min. measurements searching and reservation
- Auto power off
- With data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-12.7mm/0-.5"	0.001mm/.00005"	0.004mm/.00015"	31015-050	31025-050
0-25.4mm/0-1.0"	0.001mm/.00005"	0.005mm/.0002"	31015-100	31025-100
0-50.8mm/0-2.0"	0.001mm/.00005"	0.006mm/.0002"	31015-200	31025-200
0-12.7mm/0-.5"	0.01mm /.0005"	0.02mm /.001"	31015-051	31025-051
0-25.4mm/0-1.0"	0.01mm /.0005"	0.02mm /.001"	31015-101	31025-101
0-50.8mm/0-2.0"	0.01mm /.0005"	0.02mm /.001"	31015-201	31025-201



Small Measuring Range Digital Indicator – 3 Buttons

Data
Output

Features:

- Small size, suitable for limited space
- Preset real position value
- Metric-Inch conversion at any position
- Glass capacitive sensor
- Absolute / incremental measurement
- With data output port (DCB-05 / DWB-05)
- 42mm dial plate diameter
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.	
			Metric	Inch
0-5mm/0-4.0"	0.001mm/.00005"	0.004mm	31110-005	31120-005
0-5mm/0-4.0"	0.01mm /.0005"	0.02mm	31110-001	31120-001



Digital Indicator – Analog

Data
Output

Features:

- Digital and analog bar display
- Rotatable front panel for easy reading at any position
- The main body is made of aerometal
- Preset real position value
- Tolerance setting and automatic deviation judgment
- Run-out detection, storage of current measuring value
- Glass capacitive sensor
- Absolute/incremental measurement
- Metric-inch conversion at any position
- Max./min. measurements searching and reservation
- With data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



Range	Resolution	Accuracy	Code No.
0-6.5mm/ 0-0.25"	0.001mm/.00005"	0.005mm/.0002"	31611-020
0-12.5mm/0- .5"	0.001mm/.00005"	0.005mm/.0002"	31611-050
0-25.0mm/0-1.0"	0.001mm/.00005"	0.005mm/.0002"	31611-100
0-6.5mm/ 0-0.25"	0.002mm/.00005"	0.02mm /.001"	31611-021
0-12.5mm/0- .5"	0.002mm /.0005"	0.02mm /.001"	31611-051
0-25.0mm/0-1.0"	0.002mm /.0005"	0.02mm /.001"	31611-101



IP65 Micrometer Probe Line Gauge

IP65

Features:

- IP65 waterproof protection level. Can be used in complex industrial control environment
- Precision bearing and patent guide structure, can use more than 2 million times
- Fast data transfer speed over 100 times/s
- RS232 and RS485 interface are optional. The transmission distance of 50 meters
- MODBUS protocol



31230-341

Range	Resolution	Accuracy	Code No.	NOTE
0-10 mm	0.01mm	0.02mm	31230-141	
0-10 mm	0.01mm	0.02mm	31230-141C	Cylinder
0-25 mm	0.01mm	0.02mm	31230-151	
0-50 mm	0.01mm	0.02mm	31230-161	
0-10 mm	0.001mm	0.004mm	31230-341	
0-10 mm	0.001mm	0.004mm	31230-341C	Cylinder
0-25 mm	0.001mm	0.005mm	31230-351	
0-50 mm	0.001mm	0.006mm	31230-361	



<https://www.mitechmetrology.com>

<https://mitechmetrology.en.made-in-China.com>

IP67 Micrometer Probe Line Gauge

IP67

Features:

- Absolute measuring system
- IP67 waterproof protection level. Can be used in complex industrial control environment
- Precision bearing and patent guide structure, can use more than 2 million times
- Fast data transfer speed over 100 times/s
- 485 bus interface. The transmission distance of 50 meters
- MODBUS protocol



31230-342

Range	Resolution	Accuracy	Code No.	NOTE
0-10 mm	0.01mm	0.02mm	31230-142	
0-10 mm	0.01mm	0.02mm	31230-142C	Cylinder
0-10 mm	0.001mm	0.004mm	31230-342	
0-10 mm	0.001mm	0.004mm	31230-342C	Cylinder



Universal Dial Indicator

Features:

● Metric

- Steel body
- With adjustable tolerance marker and locking screw
- Jeweled bearing
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter

Range	Graduation	Accuracy	Dial	Code No.
0-1mm	0.001mm	0.005mm	0-100-0	32012-010
0-3mm	0.01mm	0.014mm	0-100	32012-031
0-5mm	0.01mm	0.016mm	0-100	32012-051
0-10mm	0.01mm	0.02mm	0-100	32012-101
0-25mm	0.01mm	0.025mm	0-100	32012-251
0-30mm	0.01mm	0.030mm	0-100	32012-301
0-50mm	0.01mm	0.040mm	0-100	32012-501
0-100mm	0.01mm	0.050mm	0-100	32012-111



● Inch

- Aluminum body
- With adjustable tolerance marker and locking screw
- Metal lug back is valid for standard
- 3/8" stem diameter, 2.28" dial plate diameter

Range	Graduation	Accuracy	Dial	Code No.
0-0.05"	0.0001"	0.0001"	0-100	32021-005
0-0.05"	0.0001"	0.0001"	0-50-0	32021-006
0-0.25"	0.0005"	0.0015"	0-50	32025-025
0-0.5"	0.0005"	0.002"	0-50	32025-050
0-1"	0.0005"	0.002"	0-50	32025-100
0-0.25"	0.001"	0.002"	0-100	32020-025
0-0.5"	0.001"	0.002"	0-100	32020-050
0-1"	0.001"	0.002"	0-100	32020-100
0-2"	0.001"	0.004"	0-100	32020-200

Dial Indicator (Shock Proof)

Features:

- With shock-proof structure inside
- Jeweled bearing inside guarantee perfect sensitivity of indicator
- With adjustable tolerance marker and dial locking screw
- Jeweled bearing
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter

Range	Graduation	Accuracy	Dial	Code No.
0-3mm	0.01mm	0.014mm	0-100	32013-031
0-5mm	0.01mm	0.016mm	0-100	32013-051
0-10mm	0.01mm	0.020mm	0-100	32013-101



Dial Indicator (Dust Proof, Water Proof)

Features:

- With adjustable tolerance marker
- Dust proof and water proof, IP54 protection level
- Measuring spindle sealed by means of rubber sleeve, preventing contamination by liquid and impurities
- Jeweled bearing
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter

Range	Graduation	Accuracy	Dial	Code No.
0-5mm	0.01mm	0.016mm	0-100	32111-051
0-10mm	0.01mm	0.020mm	0-100	32111-101



Dial Indicator – One Revolution Type for Error-free Reading

Features:

- Steel body
- With adjustable tolerance marker and locking screw
- Jeweled bearing
- Shock proof structure
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter



Range	Graduation	Accuracy	Dial	Code No.
± 0.4mm	0.01mm	0.01mm	40-0-40	32015-040

Small Dial Indicator

Features:

- Steel body
- Jeweled bearing
- Plastic flat back
- 8mm stem diameter, 42mm dial plate diameter



Range	Graduation	Accuracy	Dial	Code No.
0-3mm	0.01mm	0.014mm	0-50	32014-031
0-5mm	0.01mm	0.016mm	0-50	32014-051
0-8mm	0.01mm	0.02mm	0-50	32014-081

3D Dial Test Indicator

Features:

- Large high contrast dial face
- Large working range in all axes (X, Y, Z) prevent damage to the stylus by contacting errors
- Compact metal housing and 30mm long probe arm
- High accuracy and linearity
- 20mm stem diameter
- Can be used on milling and CNC machines to
 - o Determine the zero position on work pieces
 - o Determine the center of bores
 - o Determine and correct the alignment of work piece and for the measurement of lengths and depths



Range		Graduation		Accuracy	Touch point Dial	Code No.
Axial	Radial	Axial	Radial			
0-0.6 mm	0-2 mm	0.01mm	0.01mm	$\pm 0.04\text{mm}$	SØ4mm	32030-000

IP65 Digital Dial Test Indicator

- Resolution 0.001mm
- Inductive measurement system
- Analog display
- Response speed 0.05m/s
- 3V Lithium battery, battery life > 1 year
- Protection level IP65
- Data output port
- Auto power off
- Built in wireless transmission (optional)



Range	Resolution	Accuracy	Repeatability	Code No.
0-0.8mm / 0-0.03"	0.001mm / 0.00005"	0.013mm / 0.0005"	0.003mm / 0.0005"	33301-021

Dial Test Indicator

- Jeweled bearing
- Carbide contact point
- Steel, Carbide and Ruby contact point are optional
- Dial plate diameter 32mm
(40mm big dial plate optional)



● Metric

Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)	Code No. (40mm Dia.)
0-0.2mm	0.002mm	±0.004mm	0-100-0	16mm	33011-020	33011-120
0-0.5mm	0.01mm	±0.013mm	0-25-0	19mm	33011-051	33011-151
0-0.8mm	0.01mm	±0.013mm	0-40-0	19mm	33011-081	33011-181
0-1.0mm	0.01mm	±0.013mm	0-50-0	19mm	33011-011	33011-111

● Inch

Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)
0-0.008"	0.0001"	±0.0001"	0-4-0	16mm	33021-020
0-0.03"	0.0005"	±0.0005"	0-15-0	19mm	33021-081

Vertical Dial Test Indicator

- Jeweled bearing
- Carbide contact point
- Steel, Carbide and Ruby contact point are optional
- Dial plate diameter 32mm
(40mm big dial plate optional)



● Metric

Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)	Code No. (40mm Dia.)
0-0.2mm	0.002mm	±0.004mm	0-100-0	16mm	33012-020	33012-120
0-0.5mm	0.01mm	±0.013mm	0-25-0	19mm	33012-051	33012-151
0-0.8mm	0.01mm	±0.013mm	0-40-0	19mm	33012-081	33012-181
0-1.0mm	0.01mm	±0.013mm	0-50-0	19mm	33012-011	33012-111

● Inch

Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)
0-0.008"	0.0001"	±0.0001"	0-4-0	16mm	33022-020
0-0.03"	0.0005"	±0.0005"	0-15-0	19mm	33022-081

Large Range Dial Test Indicator

- Jeweled bearing
- Carbide contact point
- Steel, Carbide and Ruby contact point are optional
- Dial plate diameter 32mm (40mm big dial plate optional)
- Both horizontal and vertical types are optional



Horizontal Type



● Metric

Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)	Code No. (40mm Dia.)
Horizontal Type						
0-1.6mm	0.01mm	±0.02mm	0-40-0	19mm	33013-161	33013-261
Vertical Type						
0-1.6mm	0.01mm	±0.02mm	0-40-0	19mm	33014-161	33014-261

● Inch

Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)	Code No. (40mm Dia.)
Horizontal Type						
0-0.06"	0.0005"	±0.0012"	0-15-0	19mm	33023-160	33023-260
0-0.06"	0.001"	±0.0012"	0-15-0	19mm	33023-161	33023-261
Vertical Type						
0-0.06"	0.0005"	±0.0012"	0-15-0	16mm	33024-160	33024-260
0-0.06"	0.001"	±0.0012"	0-15-0	19mm	33024-161	33024-261

Accessories for Indicator

Swivel Clamp



Dia. Of Clamp Hole	Code No
4.0/8.0/Dovetail	70002-001
6.0/8.0/Dovetail	70002-002
3/8"/5/32"/Dovetail	70002-003

Centering Holder



Dia. of Clamp Hole	Dia. of Stem	Code No
4mm	8mm	70002-004
5/32"	1/4"	70002-005

Holding Bar



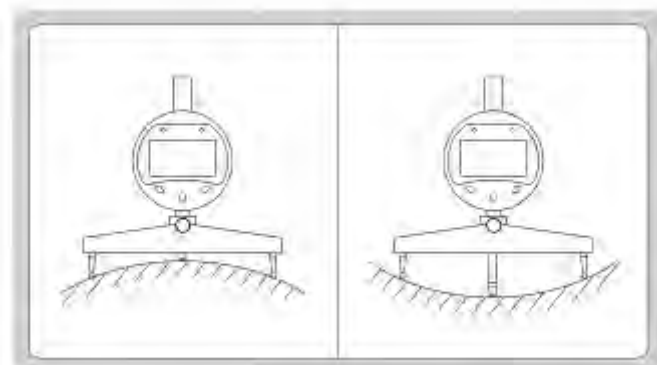
Dimension	Code No
9x9x50	70001-001
9x9x100	70001-002
10x12x50	70001-003
10x12x100	70001-004

Digital Radius Gauge

Data
Output

Features:

- Measure radius of internal and external arcs. Actual reading of radius of circular arc at any size. Portable size and easy to operate with fast measurement result. Widely used in any circular arc measurement
- Supplied with 5 jaws for different sizes of arc. Claws in wide range of measurement span available for different circular arc radius and measurement precision requirement
- Percentage reading display
- Auto / Manual power off
- Indicator max. travel distance is 12.5mm
- Measuring range of radius is from 5mm to 700mm
- The main body is made by aerometal
- Packed in plastic box



Measuring Range (Radius)	Resolution	Measuring Accuracy	Code No
5-700mm	0.005mm/0.0005"	< 1%	79030-030

Best Measurement Range

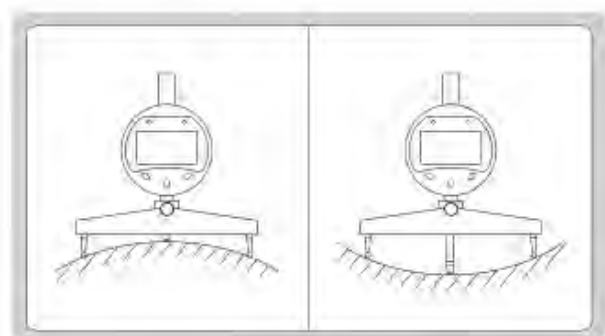
Jaw	Measuring range (External)	Measuring range (Internal)
C=10	R 5–13 mm	R 6.5–15 mm
C=20	R 11–30 mm	R 14–30 mm
C=30	R 22–100 mm	R 27–100 mm
C=60	R 94–260 mm	R 94–260 mm
C=100	R 255–700 mm	R 255–700 mm

Digital Large Radius Gauge

Data
Output

Features:

- Measure radius of internal and external arcs. Actual reading of radius of circular arc at any size. Portable size and easy to operate with fast measurement result. Widely used in any circular arc measurement
- Supplied with 200mm jaw, especially for large size radius measurement
- Percentage reading display
- Auto / Manual power off
- Indicator max. travel distance is 50mm
- Measuring range of radius is from 450mm to 9999.99mm (The best measuring range is from 450mm to 2500mm)
- The main body is made by aerometal
- Packed in plastic box



Indicator Range	Measuring Range (Radius)	Resolution	Indicator Accuracy	Measuring Accuracy	Code No
0-50.8mm	450-2500mm	0.005mm/0.0005"	0.03mm	< 1%	79030-050

Best Measurement Range

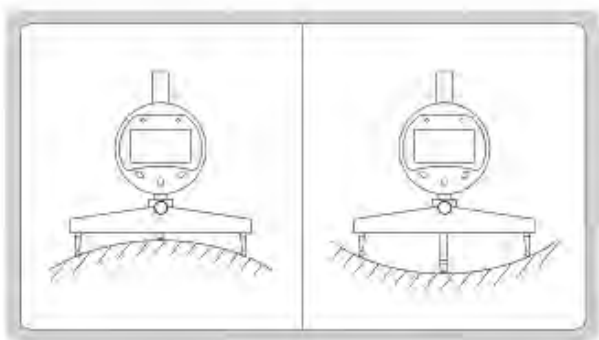
Jaw	Measuring range (External)	Measuring range (Internal)
C=200	R 450–2500 mm	R 450–2500 mm

Digital Radius Gauge (Customization)

Data
Output

Features:

- Measure radius of internal and external arcs. Actual reading of radius of circular arc. Portable size and easy to operate with fast measurement result. Widely used in any circular arc measurement
- Supplied with set jaws of size 100mm, 200mm and 300mm. Customer can choose according to application.
- Auto / Manual power off
- Indicator max. travel distance is 50mm
- The main body is made by aerometal
- Packed in Aluminum box



Indicator Range	Resolution	Best Measuring Range (Radius)	Quantity of Jaws	Radius Measuring Accuracy	Code No
0-50mm	0.01mm/0.0005"	65-2500mm	2	< 1%	79030-200
0-50mm	0.01mm/0.0005"	65-11250mm	3	< 1%	79030-300
0-50mm	0.01mm/0.0005"	65-20000mm	4	< 1%	79030-400
0-50mm	0.01mm/0.0005"	650-11250 mm	1	< 1%	79030-301
0-50mm	0.01mm/0.0005"	1150-20000mm	1	< 1%	79030-401

Best Measurement Range

Jaw	Measuring range (External)	Measuring range (Internal)
C=100	R 65-625 mm	R 65-625 mm
C=200	R 450-2500 mm	R 450-2500 mm
C=300	R 650-11250 mm	R 650-11250 mm
C=400	R 1150-20000 mm	R 1150-20000 mm

Single Beam Digital Height Gauge

Features

- Large LCD display
- With fine adjustment and hand wheel design for easy use
- Metric-Inch conversion at any position
- Zero setting at any position
- Preset setting function
- Carbide tipped scriber provided

Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.0005"	±0.04mm/0.0016"	71101-121
0-500mm/0-20"	0.01mm/0.0005"	±0.05mm/0.002"	71101-201
0-600mm/0-24"	0.01mm/0.0005"	±0.05mm/0.002"	71101-241



Single Beam Digital Height Gauge

Features

- Large LCD display
- With fine adjustment for easy use
- Metric-Inch conversion at any position
- Zero setting at any position
- Preset and tolerance setting function
- Carbide tipped scriber provided

Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.0005"	±0.04mm/0.0016"	71102-121
0-500mm/0-20"	0.01mm/0.0005"	±0.05mm/0.002"	71102-201
0-600mm/0-24"	0.01mm/0.0005"	±0.05mm/0.002"	71102-241
0-800mm/0-32"	0.01mm/0.0005"	±0.06mm/0.0024"	71102-321
0-1000mm/0-40"	0.01mm/0.0005"	±0.07mm/0.0028"	71102-401



IP65 Water-Proof Digital Height Gauge



Data
Output

IP65

Features

- Inductive Measurement system. IP65 protection level
- External digital data input function, no need to repeat, dial "0" to achieve rapid detection
- Powered by CR2450 lithium battery. Built in external power port
- Carbide tipped scriber provided
- SPC data output; Built-in wireless is optional (Alternative)

Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.001"	71140-031
0-600mm/0-24"	0.01mm/0.0005"	±0.05mm/0.002"	71140-061
0-300mm/0-12"	0.001mm/.00005"	±0.02mm/0.0008"	71140-032
0-600mm/0-24"	0.001mm/.00005"	±0.04mm/0.0015"	71140-062



Double Beam Digital Height Gauge

Features

- Large LCD display
- With hand wheel for easy use
- Resolution can be converted between 0.01mm and 0.005mm or 0.0005" and 0.0001"
- Metric-Inch conversion at any position
- Display hold function
- Preset setting function
- Carbide tipped scriber provided
- With SPC data output, Built-in wireless is optional

Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.001"	± 0.02mm/0.001"	71201-121
0-450mm/0-18"	0.01mm/0.001"	± 0.03mm/0.0015"	71201-181
0-600mm/0-24"	0.01mm/0.001"	± 0.03mm/0.0015"	71201-241



Data
Output



Double Beam Digital Height Gauge

Features

- Large LCD display; Display hold function
- External data input function from digital indicator, start testing rapidly, no need to reset "0" frequently
- Powered by CR2450 lithium battery. Built-in external power port
- Carbide tipped scriber provided
- With SPC data output; Built-in wireless is optional

Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.0005"	± 0.02mm/0.001"	71202-121
0-450mm/0-18"	0.01mm/0.0005"	± 0.03mm/0.0015"	71202-181
0-600mm/0-24"	0.01mm/0.0005"	± 0.03mm/0.0015"	71202-241



Double Bean Digital Height Gauge

Features

- Large LCD display; Display hold function
- External data input function from digital indicator, start testing rapidly, no need to reset "0" frequently
- Powered by CR2450 lithium battery. Built-in external power port
- Tolerance detection, with sign and red/green backlight indicating (backlight only works when external power is used)
- Carbide tipped scriber provided
- With SPC data output; Built-in wireless is optional
- High accuracy, 0.01mm/0.001mm resolution conversion
- Plastic box package

Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.001mm/0.00005"	± 0.02mm/0.001"	71203-121
0-600mm/0-24"	0.01mm/0.001mm/0.00005"	± 0.03mm/0.0015"	71203-241



Double Bean Dial Height Gauge

Features

- Position is displayed by a combination of the digit counter and dial
- With hand wheel for easy use
- Carbide tipped scriber provided

Range	Resolution	Accuracy	Code No. Metric	Code No. Inch
0-300mm/0-12"	0.01mm/0.001"	± 0.04mm/0.0015"	72211-121	72221-121
0-450mm/0-18"	0.01mm/0.001"	± 0.05mm/0.002"	72211-181	72221-181
0-600mm/0-24"	0.01mm/0.001"	± 0.05mm/0.002"	72211-241	72221-241
0-1000mm/0-40"	0.01mm/0.001"	± 0.07mm/0.003"	72211-401	72221-401



IP65 Digital Z-Axis Zero Setter

IP65

Features

- Inductive measurement system
- IP65 protection level
- Repeatability is 0.003mm / 0.0001"
- Light indicating at "0"
- mm/inch unit convertible
- Auto power off and power on



Range	Resolution	Accuracy	Height	Code No.
<2.5 mm / <0.1"	0.001mm / 0.00005"	0.008mm / 0.0003"	50 mm	71031-050
<2.5 mm / <0.1"	0.001mm / 0.00005"	0.01mm / 0.0004"	100 mm	71031-100

Dial Z-Axis Zero Setter

Features

- with magnet on base for fixing



Range	Resolution	Accuracy	Height	Code No.
2 mm	0.01mm	± 0.01mm	50 mm	71032-050
2 mm	0.01mm	± 0.01mm	100 mm	71032-100

Rectangular Gauge Blocks Sets

Features

- Compliance with standard DIN EN ISO 3650
- Individual serial number on each block
- Mirror polished surfaces provide superior characteristics
- Steel, Carbide and Ceramic materials are optional
- Provided with inspection report



Metric Block Set

Pieces per Set	Blocks Included in Set	Grade	Item Code (Steel)	Item Code (Carbide)	Item Code (Ceramic)
32	1 Block: 1.005mm 9 Blocks: 1.01 – 1.09mm, 0.01mm step 9 Blocks: 1.1 – 1.9mm, 0.1mm step 9 Blocks: 1 – 9mm, 1mm step 4 Blocks: 10mm, 20mm, 30mm, 50mm	0	80032-100	80032-100H	80032-100C
		1	80032-101	80032-101H	80032-101C
		2	80032-102	80032-102H	-
38	1 Block: 1.005mm 9 Blocks: 1.01 – 1.09mm, 0.01mm step 9 Blocks: 1.1 – 1.9mm, 0.1mm step 9 Blocks: 1 – 9mm, 1mm step 10 Blocks: 10 - 100mm, 10mm step	0	80038-100	80038-100H	80038-100C
		1	80038-101	80038-101H	80038-101C
		2	80038-102	80038-102H	-
46	9 Block: 1.001 -1.009mm, 0.001mm step 9 Blocks: 1.01 – 1.09mm, 0.01mm step 9 Blocks: 1.1 – 1.9mm, 0.1mm step 9 Blocks: 1 – 9mm, 1mm step 10 Blocks: 10 - 100mm, 10mm step	0	80046-100	80046-100H	80047-100C
		1	80046-101	80046-101H	80047-101C
		2	80046-102	80046-102H	-
47	1 Block: 1.005mm 20 Blocks: 1.01 – 1.20mm, 0.01mm step 7 Blocks: 1.3 – 1.9mm, 0.1mm step 9 Blocks: 1 – 9mm, 1mm step 10 Blocks: 10 - 100mm, 10mm step	0	80047-100	80047-100H	80047-100C
		1	80047-101	80047-101H	80047-101C
		2	80047-102	80047-102H	-
83	1 Block: 0.5mm 1 Block: 1mm 1 Block: 1.005mm 49 Blocks: 1.01 – 1.49mm, 0.01mm step 5 Blocks: 1.5 – 1.9mm, 0.1mm step 16 Blocks: 2.0 – 9.5mm, 0.5mm step 10 Blocks: 10 - 100mm, 10mm step	0	80083-100	80083-100H	80083-100C
		1	80083-101	80083-101H	80083-101C
		2	80083-102	80083-102H	-

87	9 Blocks: 1.001 – 1.009mm, 0.001mm step 49 Blocks: 1.01 – 1.49mm, 0.01mm step 19 Blocks: 0.5 – 9.5mm, 0.5mm step 10 Blocks: 10 - 100mm, 10mm step	0	80087-100	80087-100H	80087-100C
		1	80087-101	80087-101H	80087-101C
		2	80087-102	80087-102H	-
103	1 Block: 1.005mm 49 Blocks: 1.01 – 1.49mm, 0.01mm step 49 Blocks: 0.5 – 24.5mm, 0.5mm step 4 Blocks: 25 - 100mm, 25mm step	0	80103-100	80103-100H	80103-100C
		1	80103-101	80103-101H	80103-101C
		2	80103-102	80103-102H	-
112	1 Block: 1.0005mm 9 Blocks: 1.001 – 1.009mm, 0.001mm step 49 Blocks: 1.01 – 1.49mm, 0.01mm step 49 Blocks: 0.5 – 24.5mm, 0.5mm step 4 Blocks: 25 - 100mm, 25mm step	0	80112-100	80112-100H	80112-100C
		1	80112-101	80112-101H	80112-101C
		2	80112-102	80112-102H	-
122	1 Block: 1.0005mm 9 Blocks: 1.001 – 1.009mm, 0.001mm step 49 Blocks: 1.01 – 1.49mm, 0.01mm step 4 Blocks: 1.6-1.9mm, 0.1mm step 50 Blocks: 0.5 – 25mm, 0.5mm step 8 Blocks: 30- 100mm, 10mm step 1 Blocks: 75mm	0	80122-100	80122-100H	80122-100C
		1	80122-101	80122-101H	80122-101C
		2	80122-102	80122-102H	-

Metric Long Block Set

Pieces per Set	Blocks Included in Set	Grade	Item Code (Steel)	Item Code (Ceramic)
8	8 Blocks: 25-200mm, 25mm step	0	80008-100	80008-100C
		1	80008-101	80008-101C
		2	80008-102	
8	3 Blocks: 125-175mm, 25mm step 2 Blocks: 200-250mm, 50mm step 3 Blocks: 300-500mm, 100mm step	0	80008-200	80008-200C
		1	80008-201	80008-201C
		2	80008-202	

Caliper Calibration Block Set (DIN Standard)

Caliper Range	Blocks Included in Set	Grade	Item Code (Steel)	Item Code (Ceramic)
0-150mm	Blocks: 30mm, 41.3mm, 131.4mm Master Rings: ø4mm, ø25mm	0	80150-100	80150-100C
		1	80150-101	80150-101C
0-300mm	Blocks: 41.3mm, 131.4mm, 243.5mm Master Rings: ø4mm, ø25mm	0	80300-100	80300-100C
		1	80300-101	80300-101C

Inch Block Set

Pieces per Set	Blocks Included in Set	Grade	Item Code (Steel)
36	1 Block: 0.050" 9 Blocks: 0.1001" – 0.1009", 0.0001" step 9 Blocks: 0.101" – 0.109", 0.001 step 9 Blocks: 0.110" – 0.190", 0.010 step 5 Blocks: 0.100" – 0.500", 0.100 step 3 Blocks: 1", 2", 4"	0	80036-AS0
		AS-1	80036-AS1
		AS-2	80036-AS2
81	9 Blocks: 0.1001" – 0.1009", 0.0001" step 49 Blocks: 0.101" – 0.149", 0.001 step 19 Blocks: 0.050" – 0.950", 0.050 step 4 Blocks: 1.000" – 4.000", 1.000 step	0	80081-AS0
		AS-1	80081-AS1
		AS-2	80081-AS2

Inch Long Block Set

Pieces per Set	Blocks Included in Set	Grade	Item Code (Steel)	Item Code (Ceramic)
8	8 Blocks: 1-8"mm, Step 1"	AS-0	80008-AS0	80008-AS0C
		AS-1	80008-AS1	80008-AS1C
		AS-2	80008-AS2	
8	3 Blocks: 5-7", Step 1" 2 Blocks: 8", 10", Step 2" 3 Blocks: 12", 16", 20", Step 4"	0	80008-AS20	80008-AS20C
		1	80008-AS21	80008-AS21C
		2	80008-AS22	

Individual Rectangular Gauge Block

Features

- Individual serial number on each block
- Mirror polished surfaces
- Steel, Carbide and Ceramic materials are optional
- Provided with inspection report.
- Compliance with standard DIN EN ISO 3650



Individual Metric Block

GRADE 0

Size	Item Code		
	Steel	Carbide	Ceramic
0.5mm	80100-050	80100-050H	80100-050C
1.0mm	80100-100	80100-100H	80100-100C
1.001mm	80200-101	80200-101H	80200-101C
1.002mm	80200-102	80200-102H	80200-102C

GRADE 1

	Item Code		
	Steel	Carbide	Ceramic
0.5mm	81100-050	81100-050H	81100-050C
1.0mm	81100-100	81100-100H	81100-100C
1.001mm	81200-101	81200-101H	81200-101C
1.002mm	81200-102	81200-102H	81200-102C

0.001mm step

1.008mm	80200-108	80200-108H	80200-108C	81200-108	81200-108H	81200-108C
1.009mm	80200-109	80200-109H	80200-109C	81200-109	81200-109H	81200-109C
1.01mm	80100-101	80100-101H	80100-101C	81100-101	81100-101H	81100-101C
1.02mm	80100-102	80100-102H	80100-102C	81100-102	81100-102H	81100-102C
1.03mm	80100-103	80100-103H	80100-103C	81100-103	81100-103H	81100-103C

0.01mm step

1.49mm	80100-149	80100-149H	80100-149C	81100-149	81100-149H	81100-149C
1.50mm	80100-150	80100-150H	80100-150C	81100-150	81100-150H	81100-150C
1.60mm	80100-160	80100-160H	80100-160C	81100-160	81100-160H	81100-160C

0.1mm step

1.90mm	80100-190	80100-190H	80100-190C	81100-190	81100-190H	81100-190C
2.00mm	80100-200	80100-200H	80100-200C	81100-200	81100-200H	81100-200C
2.50mm	80100-250	80100-250H	80100-250C	81100-250	81100-250H	81100-250C
3.00mm	80100-300	80100-300H	80100-300C	81100-300	81100-300H	81100-300C

0.5mm step

24.50mm	80102-450	80102-450H	80102-450C	81102-450	81102-450H	81102-450C
25.00mm	80102-500	80102-500H	80102-500C	81102-500	81102-500H	81102-500C
30.00mm	80103-000	80103-000H	80103-000C	81103-000	81103-000H	81103-000C

40.00mm	80104-000	80104-000H	80104-000C	81104-000	81104-000H	81104-000C
50.00mm	80105-000	80105-000H	80105-000C	81105-000	81105-000H	81105-000C
10mm step						
100.00mm	80110-000	80110-000H	80110-000C	81110-000	81110-000H	81110-000C
125.00mm	80112-500	-	80112-500C	81112-500	-	81112-500C
131.40mm	80113-140	-	80113-140C	81113-140	-	81113-140C
150.00mm	80115-000	-	80115-000C	81115-000	-	81115-000C
175.00mm	80117-500	-	80117-500C	81117-500	-	81117-500C
200.00mm	80120-000	-	80120-000C	81120-000	-	81120-000C
243.50mm	80124-350	-	80124-350C	81124-350	-	81124-350C
250.00mm	80125-000	-	80125-000C	81125-000	-	81125-000C
300.00mm	80130-000	-	80130-000C	81130-000	-	81130-000C
400.00mm	80140-000	-	80140-000C	81140-000	-	81140-000C
100mm step						
900.00mm	80190-000	-	80190-000C	81190-000	-	81190-000C
1000.00mm	80100-000	-	80100-000C	81100-000	-	81100-000C



Individual Inch Long Block

GRADE 0		
Size	Steel	Ceramic
5"	80500-AS0	80500-AS0C
6"	80600-AS0	80600-AS0C
7"	80700-AS0	80700-AS0C
8"	80800-AS0	80800-AS0C
10"	81000-AS0	81000-AS0C
12"	81200-AS0	81200-AS0C
16"	81600-AS0	81600-AS0C
20"	82000-AS0	82000-AS0C

GRADE 1	
Steel	Ceramic
80500-AS1	80500-AS1C
80600-AS1	80600-AS1C
80700-AS1	80700-AS1C
80800-AS1	80800-AS1C
81000-AS1	81000-AS1C
81200-AS1	81200-AS1C
81600-AS1	81600-AS1C
82000-AS1	82000-AS1C

Pin Gauge Sets

Features

- Mirror polished surface provides superior characteristics
- Compliance with standard DIN 2269
- Accuracy: $\pm 0.001\text{mm}$
- Hardened (62 ± 2 HRC)
- Wooden box package
- Steel and Ceramic materials are optional
- 70mm length is optional for steel pin gauges only



51 PCs Set

PCs Per Set	Range	Item Code (L=50mm) (Accuracy $\pm 1\mu\text{m}$)	Item Code (L=70mm) (Accuracy $\pm 1\mu\text{m}$)
51	0.50-1.00 mm, 0.01mm step	30-0051-51	37-0051-51
51	1.00-1.50 mm, 0.01mm step	30-0102-51	37-0102-51
51	1.50-2.00 mm, 0.01mm step	30-0102-61	37-0102-61
51	2.00-2.50 mm, 0.01mm step	30-0203-51	37-0203-51
51	2.50-3.00 mm, 0.01mm step	30-0203-61	37-0203-61
51	3.00-3.50 mm, 0.01mm step	30-0304-51	37-0304-51
51	3.50-4.00 mm, 0.01mm step	30-0304-61	37-0304-61
51	4.00-4.50 mm, 0.01mm step	30-0405-51	37-0405-51
51	4.50-5.00 mm, 0.01mm step	30-0405-61	37-0405-61
51	5.00-5.50 mm, 0.01mm step	30-0506-51	37-0506-51
51	5.50-6.00 mm, 0.01mm step	30-0506-61	37-0506-61
51	6.00-6.50 mm, 0.01mm step	30-0607-51	37-0607-51
51	6.50-7.00 mm, 0.01mm step	30-0607-61	37-0607-61
51	7.00-7.50 mm, 0.01mm step	30-0708-51	37-0708-51
51	7.50-8.00 mm, 0.01mm step	30-0708-61	37-0708-61
51	8.00-8.50 mm, 0.01mm step	30-0809-51	37-0809-51
51	8.50-9.00 mm, 0.01mm step	30-0809-61	37-0809-61
51	9.00-9.50 mm, 0.01mm step	30-0910-51	37-0910-51
51	9.50-10.00 mm, 0.01mm step	30-0910-61	37-0910-61
51	10.00-10.50 mm, 0.01mm step	30-1011-51	37-1011-51
51	10.50-11.00 mm, 0.01mm step	30-1011-61	37-1011-61
51	11.00-11.50 mm, 0.01mm step	30-1112-51	37-1112-51
51	11.50-12.00 mm, 0.01mm step	30-1112-61	37-1112-61
51	12.00-12.50 mm, 0.01mm step	30-1213-51	37-1213-51

51	12.50-13.00 mm, 0.01mm step	30-1213-61	37-1213-61
51	13.00-13.50 mm, 0.01mm step	30-1314-51	37-1314-51
51	13.50-14.00 mm, 0.01mm step	30-1314-61	37-1314-61
51	14.00-14.50 mm, 0.01mm step	30-1415-51	37-1415-51
51	14.50-15.00 mm, 0.01mm step	30-1415-61	37-1415-61
51	15.00-15.50 mm, 0.01mm step	30-1516-51	37-1516-51
51	15.50-16.00 mm, 0.01mm step	30-1516-61	37-1516-61
51	16.00-16.50 mm, 0.01mm step	30-1617-51	37-1617-51
51	16.50-17.00 mm, 0.01mm step	30-1617-61	37-1617-61
51	17.00-17.50 mm, 0.01mm step	30-1718-51	37-1718-51
51	17.50-18.00 mm, 0.01mm step	30-1718-61	37-1718-61
51	18.00-18.50 mm, 0.01mm step	30-1819-51	37-1819-51
51	18.50-19.00 mm, 0.01mm step	30-1819-61	37-1819-61
51	19.00-19.50 mm, 0.01mm step	30-1920-51	37-1920-51
51	19.50-20.00 mm, 0.01mm step	30-1920-61	37-1920-61

101 PCs Set

PCs Per Set	Range	Item Code (L=50mm) (Accuracy $\pm 1\mu\text{m}$)	Item Code (L=70mm) (Accuracy $\pm 1\mu\text{m}$)
101	1.00-2.00 mm, 0.01mm step	30-0102-01	37-0102-01
101	2.00-3.00 mm, 0.01mm step	30-0203-01	37-0203-01
101	3.00-4.00 mm, 0.01mm step	30-0304-01	37-0304-01
101	4.00-5.00 mm, 0.01mm step	30-0405-01	37-0405-01
101	5.00-6.00 mm, 0.01mm step	30-0506-01	37-0506-01
101	6.00-7.00 mm, 0.01mm step	30-0607-01	37-0607-01
101	7.00-8.00 mm, 0.01mm step	30-0708-01	37-0708-01
101	8.00-9.00 mm, 0.01mm step	30-0809-01	37-0809-01
101	9.00-10.00 mm, 0.01mm step	30-0910-01	37-0910-01
101	10.00-11.00 mm, 0.01mm step	30-1011-01	-
101	11.00-12.00 mm, 0.01mm step	30-1112-01	-
101	12.00-13.00 mm, 0.01mm step	30-1213-01	-
101	13.00-14.00 mm, 0.01mm step	30-1314-01	-
101	14.00-15.00 mm, 0.01mm step	30-1415-01	-
101	15.00-16.00 mm, 0.01mm step	30-1516-01	-
101	16.00-17.00 mm, 0.01mm step	30-1617-01	-
101	17.00-18.00 mm, 0.01mm step	30-1718-01	-
101	18.00-19.00 mm, 0.01mm step	30-1819-01	-
101	19.00-20.00 mm, 0.01mm step	30-1920-01	-

Pin Gauges (Individual)

Features

- Mirror polished surfaces provide superior characteristics
- Accuracy: $\pm 0.001\text{mm}$
- Hardened (62 ± 2 HRC)
- 50mm and 70mm length are optional
- Inch individual pin gauges are available (50mm length only)
- Ceramic material pin gauges are available (50mm length only)
- Compliance with standard DIN 2269



Material: Steel

Size	Length		Size	Length
Metric	50mm	70mm	Inch	50mm
0.500mm	30-00500	37-00500	0.010"	35-0010
0.501mm	30-00501	37-00501	0.011"	35-0011
0.502mm	30-00502	37-00502	0.012"	35-0012
0.503mm	30-00503	37-00503	0.013"	35-0013
0.001mm step			0.001" step	
19.997mm	30-19997	37-19997	0.997"	35-0997
19.998mm	30-19998	37-19998	0.998"	35-0998
19.999mm	30-19999	37-19999	0.999"	35-0999
20.000mm	30-20000	37-20000	1.000"	35-1000

Material: Ceramic

Size	Length
Metric	50mm
0.50mm	30-0050C
0.51mm	30-0051C
0.52mm	30-0052C
0.53mm	30-0053C
0.01mm step	
19.97mm	30-1997C
19.98mm	30-1998C
19.99mm	30-1999C
20.00mm	30-2000C

Plain Plug and Ring Gauges

Features

- Individual serial number on each gauge
- Hardness HRC 60±2
- Plug gauges compliance with standard DIN 7162/7164
- Ring gauges compliance with standard DIN 2250
- Customized dimension and tolerance are available



Size (Diameter)	Item Code (Plug Gauge, H7)	Item Code (Ring Gauge)
2mm	40-0020	45-0020
3mm	40-0030	45-0030
4mm	40-0040	45-0040
5mm	40-0050	45-0050
6mm	40-0060	45-0060
7mm	40-0070	45-0070
8mm	40-0080	45-0080
9mm	40-0090	45-0090
10mm	40-0100	45-0100
11mm	40-0110	45-0110
12mm	40-0120	45-0120
13mm	40-0130	45-0130
14mm	40-0140	45-0140
15mm	40-0150	45-0150
16mm	40-0160	45-0160
17mm	40-0170	45-0170
18mm	40-0180	45-0180
19mm	40-0190	45-0190
20mm	40-0200	45-0200
21mm	40-0210	45-0210
22mm	40-0220	45-0220
23mm	40-0230	45-0230
24mm	40-0240	45-0240
25mm	40-0250	45-0250
26mm	40-0260	45-0260
27mm	40-0270	45-0270
28mm	40-0280	45-0280

Size (Diameter)	Item Code (Plug Gauge, H7)	Item Code (Ring Gauge)
29mm	40-0290	45-0290
30mm	40-0300	45-0300
32mm	40-0320	45-0320
34mm	40-0340	45-0340
35mm	40-0350	45-0350
36mm	40-0360	45-0360
37mm	40-0370	45-0370
38mm	40-0380	45-0380
40mm	40-0400	45-0400
42mm	40-0420	45-0420
44mm	40-0440	45-0440
45mm	40-0450	45-0450
46mm	40-0460	45-0460
50mm	40-0500	45-0500
60mm	40-0600	45-0600
70mm	40-0700	45-0700
80mm	40-0800	45-0800
90mm	40-0900	45-0900
100mm	40-1000	45-1000
125mm	40-1250	45-1250
150mm	40-1500	45-1500
175mm	40-1750	45-1750
200mm	40-2000	45-2000
225mm	40-2250	45-2250
250mm	40-2500	45-2500
270mm	40-2750	45-2750
300mm	40-3000	45-3000

Plug Gage Set

Size (Diameter)	Plug Gauge
7pcs set (3mm、4mm、5mm、6mm、8mm、10mm、12mm)	40-0312T
28pcs set (3mm-30mm)	40-0330T



40-3012T



40-0330T



50-3012T

Metric Thread Plug and Ring Gauges

Features

- Individual serial number on each gauge
- Hardness HRC 60±2
- Thread gauges for metric thread according to DIN 13
- Customized dimension and tolerance are available



Metric Coarse Thread

Size	Plug Gauge 6H	Ring Gauge (Go, 6g)	Ring Gauge (No Go, 6g)
M2 x 0.4	50-0200	55-0200	65-0200
M3 x 0.5	50-0300	55-0300	65-0300
M4 x 0.7	50-0400	55-0400	65-0400
M5 x 0.8	50-0500	55-0500	65-0500
M6 x 1.0	50-0600	55-0600	65-0600
M8 x 1.25	50-0800	55-0800	65-0800
M10 x 1.5	50-1000	55-1000	65-1000
M12 x 1.75	50-1200	55-1200	65-1200
M14 x 2.0	50-1400	55-1400	65-1400
M16 x 2.0	50-1600	55-1600	65-1600
M18 x 2.5	50-1800	55-1800	65-1800
M20 x 2.5	50-2000	55-2000	65-2000
M22 x 2.5	50-2200	55-2200	65-2200
M24 x 3.0	50-2400	55-2400	65-2400
M27 x 3.0	50-2700	55-2700	65-2700
M30 x 3.5	50-3000	55-3000	65-3000
M33 x 3.5	50-3300	55-3300	65-3300
M36 x 4.0	50-3600	55-3600	65-3600
M42 x 4.5	50-4200	55-4200	65-4200
M45 x 4.5	50-4500	55-4500	65-4500
M48 x 5.0	50-4800	55-4800	65-4800
M52 x 5.0	50-5200	55-5200	65-5200
M56 x 5.5	50-5600	55-5600	65-5600
M60 x 5.5	50-6000	55-6000	65-6000

Plug Gage Set

Size	Plug Gauge
7pcs set (M3、M4、M5、M6、M8、M10、M12)	50-0312T

Metric Fine Thread

Size	Plug Gauge 6H	Ring Gauge (Go, 6g)	Ring Gauge (No Go, 6g)
M2 x 0.35	50-0201	55-0201	65-0201
M3 x 0.35	50-0301	55-0301	65-0301
M4 x 0.35	50-0401	55-0401	65-0401
M5 x 0.35	50-0501	55-0501	65-0501
M6 x 0.35	50-0601	55-0601	65-0601
M5 x 0.5	50-0502	55-0502	65-0502
M6 x 0.5	50-0602	55-0602	65-0602
M8 x 0.5	50-0802	55-0802	65-0802
M10 x 0.5	50-1002	55-1002	65-1002
M12 x 0.5	50-1202	55-1202	65-1202
M6 x 0.75	50-0603	55-0603	65-0603
M8 x 0.75	50-0803	55-0803	65-0803
M10 x 0.75	50-1003	55-1003	65-1003
M12 x 0.75	50-1203	55-1203	65-1203
M8 x 1.0	50-0804	55-0804	65-0804
M10 x 1.0	50-1004	55-1004	65-1004
M12 x 1.0	50-1204	55-1204	65-1204
M14 x 1.0	50-1404	55-1404	65-1404
M16 x 1.0	50-1604	55-1604	65-1604
M18 x 1.0	50-1804	55-1804	65-1804
M20 x 1.0	50-2004	55-2004	65-2004
M21 x 1.0	50-2104	55-2104	65-2104
M22 x 1.0	50-2204	55-2204	65-2204
M24 x 1.0	50-2404	55-2404	65-2404
M25 x 1.0	50-2504	55-2504	65-2504
M26 x 1.0	50-2604	55-2604	65-2604
M28 x 1.0	50-2804	55-2804	65-2804
M30 x 1.0	50-3004	55-3004	65-3004
M32 x 1.0	50-3204	55-3204	65-3204
M33 x 1.0	50-3304	55-3304	65-3304
M34 x 1.0	50-3404	55-3404	65-3404
M35 x 1.0	50-3504	55-3504	65-3504
M36 x 1.0	50-3604	55-3604	65-3604
M38 x 1.0	50-3804	55-3804	65-3804
M40 x 1.0	50-4004	55-4004	65-4004
M45 x 1.0	50-4504	55-4504	65-4504

M50 x 1.0	50-5004	55-5004	65-5004
M55 x 1.0	50-5504	55-5504	65-5504
M56 x 1.0	50-5604	55-5604	65-5604
M58 x 1.0	50-5804	55-5804	65-5804
M60 x 1.0	50-6004	55-6004	65-6004
M70 x 1.0	50-7004	55-7004	65-7004
M80 x 1.0	50-8004	55-8004	65-8004
M10 x 1.25	50-1005	55-1005	65-1005
M12 x 1.25	50-1205	55-1205	65-1205
M10 x 1.5	50-1006	55-1006	65-1006
M12 x 1.5	50-1206	55-1206	65-1206
M16 x 1.5	50-1606	55-1606	65-1606
M20 x 1.5	50-2006	55-2006	65-2006
M30 x 1.5	50-3006	55-3006	65-3006
M40 x 1.5	50-4006	55-4006	65-4006
M50 x 1.5	50-5006	55-5006	65-5006
M56 x 1.5	50-5606	55-5606	65-5606
M60 x 1.5	50-6006	55-6006	65-6006
M70 x 1.5	50-7006	55-7006	65-7006
M80 x 1.5	50-8006	55-8006	65-8006
M18 x 2.0	50-1807	55-1807	65-1807
M20 x 2.0	50-2007	55-2007	65-2007
M22 x 2.0	50-2207	55-2207	65-2207
M30 x 2.0	50-3007	55-3007	65-3007
M40 x 2.0	50-4007	55-4007	65-4007
M50 x 2.0	50-5007	55-5007	65-5007
M56 x 2.0	50-5607	55-5607	65-5607
M60 x 2.0	50-6007	55-6007	65-6007
M70 x 2.0	50-7007	55-7007	65-7007
M80 x 2.0	50-8007	55-8007	65-8007
M90 x 2.0	50-9007	55-9007	65-9007
M100 x 2.0	50-0007	55-0007	65-0007
M30 x 3.0	50-3008	55-3008	65-3008
M36 x 3.0	50-3608	55-3608	65-3608
M40 x 3.0	50-4008	55-4008	65-4008
M50 x 3.0	50-5008	55-5008	65-5008
...	...	...	...
M100 x 3.0	50-0008	55-0008	65-0008

Inch Thread Plug and Ring Gauges

Features

- Individual serial number on each gauge
- Hardness HRC 60±2
- American unified inch thread according to ANSI B 1.1
- Customized dimension and tolerance are available



ANSI UNC Thread

Size	Plug Gauge (Class 2B)	Ring Gauge (Go, 2A)	Ring Gauge (No Go, 2A)
3-48	51-0030048	56-0030048	66-0030048
4-40	51-0040040	56-0040040	66-0040040
5-40	51-0050040	56-0050040	66-0050040
6-32	51-0060032	56-0060032	66-0060032
8-32	51-0080032	56-0080032	66-0080032
10-24	51-0100024	56-0100024	66-0100024
12-24	51-0120024	56-0120024	66-0120024
1/4"-20	51-0010420	56-0010420	66-0010420
5/16"-18	51-0051618	56-0051618	66-0051618
3/8"-16	51-0030816	56-0030816	66-0030816
7/16"-14	51-0071614	56-0071614	66-0071614
1/2"-13	51-0010213	56-0010213	66-0010213
9/16"-12	51-0091612	56-0091612	66-0091612
5/8"-11	51-0050811	56-0050811	66-0050811
3/4"-10	51-0030410	56-0030410	66-0030410
7/8"-9	51-0070809	56-0070809	66-0070809
1"-8	51-1000008	56-1000008	66-1000008

ANSI UNF/UN Thread

Size	Plug Gauge (Class 2B)	Ring Gauge (Go, 2A)	Ring Gauge (No Go, 2A)
3-56	51-0030056	56-0030056	66-0030056
4-48	51-0040048	56-0040048	66-0040048
5-44	51-0050044	56-0050044	66-0050044
6-40	51-0060040	56-0060040	66-0060040
8-36	51-0080036	56-0080036	66-0080036
10-32	51-0100032	56-0100032	66-0100032
12-28	51-0120028	56-0120028	66-0120028
1/4"-28	51-00010428	56-0010428	66-0010428
5/16"-24	51-0051624	56-0051624	66-0051624
3/8"-24	51-0030824	56-0030824	66-0030824
7/16"-20	51-0071620	56-0071620	66-0071620
1/2"-20	51-0010220	56-0010220	66-0010220
9/16"-18	51-0091618	56-0091618	66-0091618
5/8"-18	51-0050818	56-0050818	66-0050818
3/4"-16	51-0030416	56-0030416	66-0030416
7/8"-14	51-0070814	56-0070814	66-0070814
1"-12	51-1000012	56-1000012	66-1000012
1-1/16"-8	51-1011608	56-1011608	66-1011608
1-1/16"-12	51-1011612	56-1011612	66-1011612
1-1/16"-16	51-1011616	56-1011616	66-1011616
1-1/8"-8	51-1010808	56-1010808	66-1010808
1-1/8"-12	51-1010812	56-1010812	66-1010812
1-1/8"-16	51-1010816	56-1010816	66-1010816
1-3/16"-8	51-1031608	56-1031608	66-1031608
1-3/16"-12	51-1031612	56-1031612	66-1031612
1-3/16"-16	51-1031616	56-1031616	66-1031616
...	...	...	...
1-15/16"-8	51-1151608	56-1151608	66-1151608
1-15/16"-12	51-1151612	56-1151612	66-1151612
1-15/16"-16	51-1151616	56-1151616	66-1151616
2"-8	51-2000008	56-2000008	66-2000008
2"-12	51-2000012	56-2000012	66-2000012
2"-16	51-2000016	56-2000016	66-2000016

Whitworth Thread

According to DIN ISO 228

Size	Plug Gauge (Class 2B)	Ring Gauge (Go, 2A)	Ring Gauge (No Go, 2A)
G1/8" - 28	52-00108	57-00108	67-00108
G1/4" - 19	52-00104	57-00104	67-00104
G3/8" - 19	52-00308	57-00308	67-00308
G1/2" - 14	52-00102	57-00102	67-00102
G5/8" - 14	52-00508	57-00508	67-00508
G3/4" - 14	52-00304	57-00304	67-00304
G7/8" - 14	52-00708	57-00708	67-00708
G1" - 11	52-10000	57-10000	67-10000
G1-1/4" - 11	52-10104	57-10104	67-10104
G1-1/2" - 11	52-10102	57-10102	67-10102
G1-3/4" - 11	52-10304	57-10304	67-10304
G2" - 11	52-20000	57-20000	67-20000
G2-1/4" - 11	52-20104	57-20104	67-20104
G2-1/2" - 11	52-20102	57-20102	67-20102
G2-3/4" - 11	52-20304	57-20304	67-20304
G3" - 11	52-30000	57-30000	67-30000

NPT Thread

According to ANSI/ASME B1.20.1

Size	Plug Gauge	Ring Gauge
1/8"-27	53-00108	68-00108
1/4"-18	53-00104	68-00104
3/8"-18	53-00308	68-00308
1/2"-14	53-00102	68-00102
3/4"-14	53-00304	68-00304
1"-11.5	53-10000	68-10000
1-1/4"-11.5	53-10104	68-10104
1-1/2"-11.5	53-10102	68-10102
2"-11.5	53-20000	68-20000
2-1/2"-8	53-20102	68-20102
3"-8	53-30000	68-30000



Economical Magnetic Indicator Stand

Features:

- Stable column with longitudinally cross arm
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")
- Most economical and widely used series



51121-080

52121-080

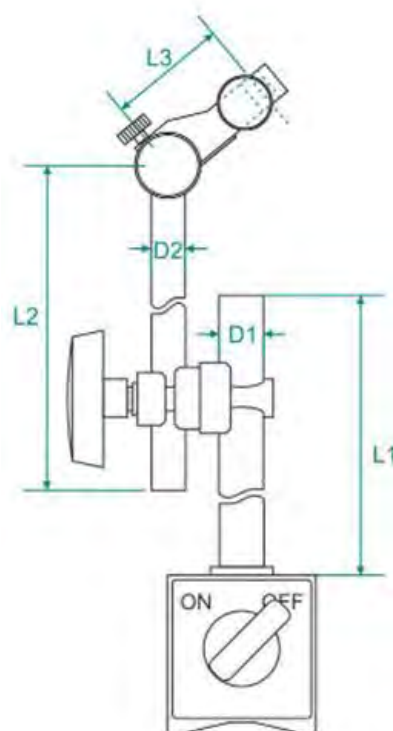
Holding Power	Base	Main Pole	Sub Pole	Dia. of Clamp Hole	Code No.
80KG	60X50X55	Ø12X176	Ø10X165	6.0/8.0	51121-080
100KG	73X50X55	Ø12X176	Ø10X165	6.0/8.0	51121-100
130KG	117X50X55	Ø20X355	Ø14X200	6.0/8.0	51201-130
80KG	60X50X55	Ø12X176	Ø10X150	6.0/8.0	52121-080
100KG	73X50X55	Ø12X176	Ø10X165	6.0/8.0	52121-100
100KG	73X50X55	Ø20X178	Ø14X165	6.0/8.0	52201-100
130KG	117X50X55	Ø20X355	Ø14X210	6.0/8.0	52201-130



High Precision Forced Locking Type Magnetic Indicator Stand

Features:

- New type fine adjustment on the top, higher accuracy
- Strong arm lock, more stable
- Main and sub poles are made of stainless steel
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")

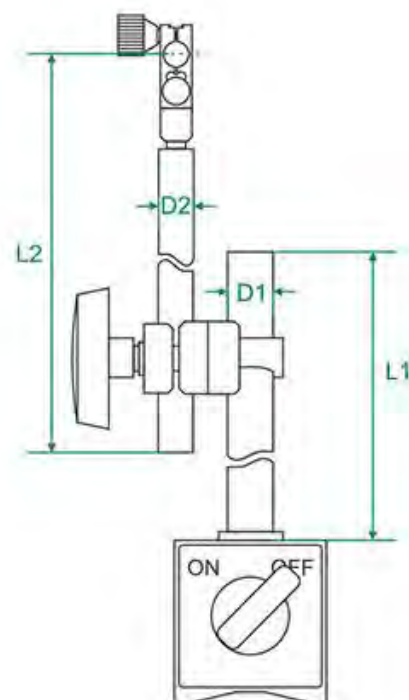


Holding Power	Base	Main Pole (D1)	Sub Pole (D2)	L3	Dia. of Clamp Hole	Code No.
80KG	60X50X55	Ø12X175	Ø10X153	45	6.0/8.0/Dovetail	52122-080
80KG	60X50X55	Ø14X200	Ø12X160	45		52142-080
100KG	73X50X55	Ø16X250	Ø14X173	45		52162-100

Forced Locking Type Magnetic Indicator Stand

Features:

- Strong arm lock, more stable
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")



Holding Power	Base	Main Pole (D1XL1)	Sub Pole (D2XL2)	Dial of Clamp Hole	Code No.
80KG	60X50X55	Ø12X180	Ø10X205	6.0/8.0/Dovetail	52123-080
80KG	60X50X55	Ø14X205	Ø12X210		52143-080
100KG	73X50X55	Ø16X250	Ø16X245		52163-100
130KG	117X50X55	Ø18X350	Ø16X245		52183-130

Mechanical Universal Arm Magnetic Indicator Stand

Features:

- New type fine adjustment on the top, higher accuracy (except 51001-030)
- High precision arm with central locking mechanism
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")

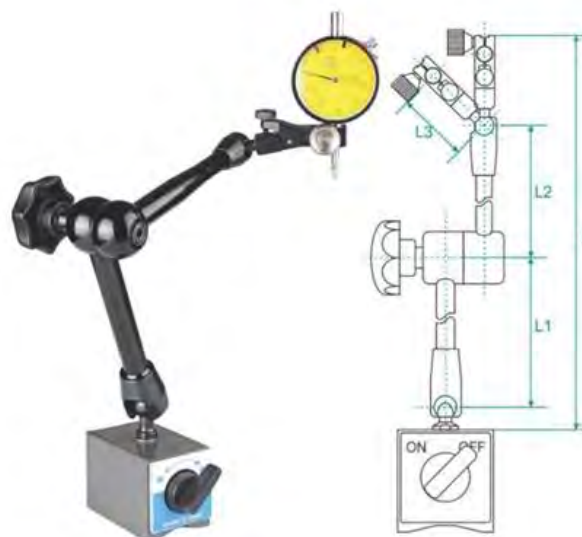


Holding Power	Base	Arm Length	L1	L2	L3	Dial of Clamp Hole	Code No.
30KG	35X30X35	158	56	51	17	6.0/8.0/Dovetail	51001-030
30KG	35X30X35	205	56	51	73		52001-030
80KG	60X50X55	310	110	101	73		52001-080
100KG	73X50X55	385	147	130	76		52001-100
130KG	117X50X55	635	285	225	76		52001-130

Strong Mechanical Arm Magnetic Indicator Stand

Features:

- Force locking mechanical arm, which makes the measure very stable
- With 8mm clamping hole (optional 3/8")



Holding Power	Base	L	L1	L2	L3	Dia. of Clamp Hole	Code No.
100KG	73X50X55	375	140	136	67	6.0/8.0/Dovetail	52002-100

Strong Mechanical Arm Indicator Stand

Features

- New type locking mechanism, super strong arm locking.
- All wear parts use hardened high class steel, hardness reach HRC 58°+
- Main parts are generated on CNC machines.
- With 6mm/8mm clamping hole (optional 3/8")

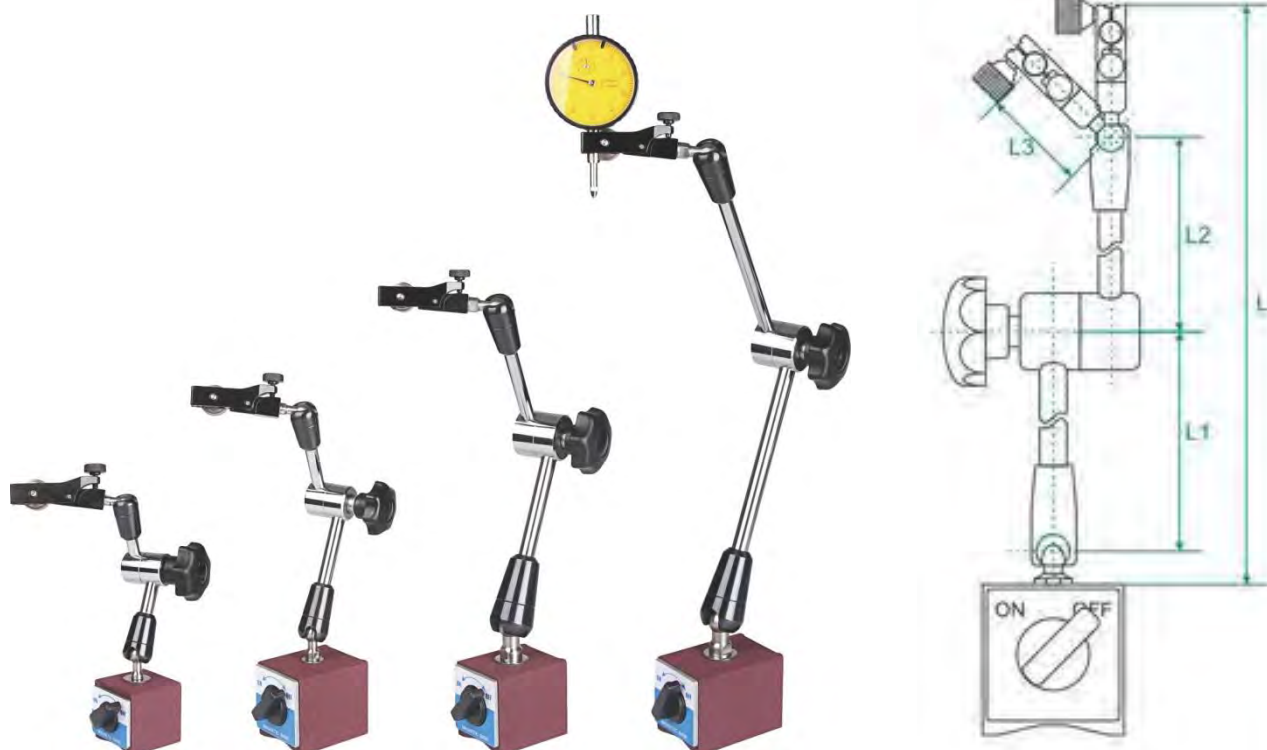


Holding Power	Base	L	L1	L2	L3	Dia. of Clamp Hole	Code No.
50KG	40X40X40	220	62	52	79	6.0/8.0/Dovetail	52007-050
80KG	60X50X55	290	100	82	81	6.0/8.0/Dovetail	52007-080
100KG	73X50X55	355	145	95	81	6.0/8.0/Dovetail	52007-100
100KG	73X50X55	415	175	125	81	6.0/8.0/Dovetail	52007-101

Strong Mechanical Universal Arm Magnetic Indicator Stand

Features:

- Strong central locking mechanism
- New type fine adjustment on the top
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")



Holding Power	Base	L	L1	L2	L3	Dial of Clamp Hole	Code No.
50KG	40X40X40	192	59	47	64	6.0/8.0/Dovetail	52004-050
80KG	60X50X55	262	93	73	68		52004-080
80KG	60X50X55	354	140	103	70		52014-080
100KG	73X50X55	472	198	174	70		52004-100

Mechanical Universal Arm Magnetic Indicator Stand

Features:

- One of the most widely used mechanical magnetic stands
- All three joints can be locked with the single hand knob
- Color of arms and can be customized

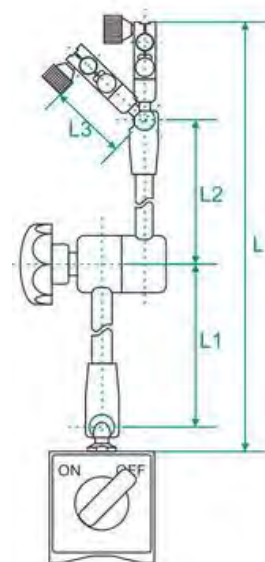


Holding Power	Base	L	L1	L2	L3	Dial of Clamp Hole	Code No.
80KG	60X50X55	345	132	120	51	6.0/8.0/Dovetail	52005-080

Strong Mechanical Arm Magnetic Indicator Stand

Features:

- Forced locking mechanical arm.

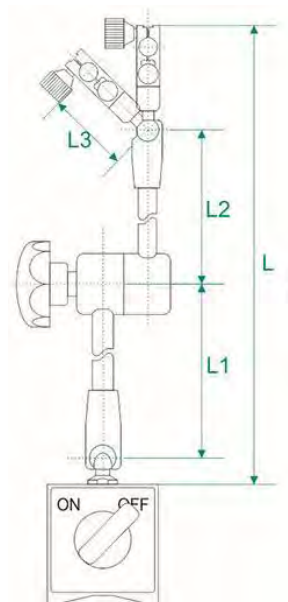


Holding Power	Base	L	L1	L2	L3	Dial of Clamp Hole	Code No.
100KG	73X50X55	377	142	130	73	6.0/8.0/Dovetail	52006-100

Mini Type Mechanical Arm Magnetic Indicator Stand

Features:

- Small mechanical arm with central locking mechanism

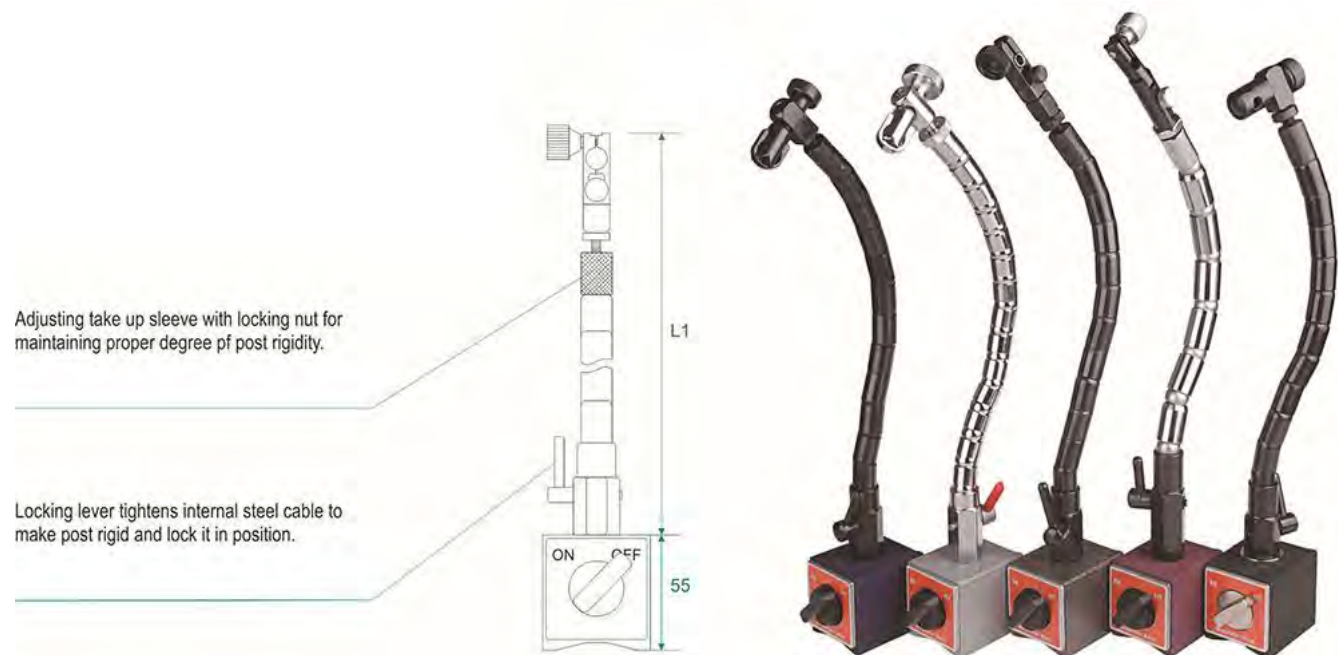


Holding Power	Base	L	L1	L2	L3	Dial of Clamp Hole	Code No.
30KG	35X30X35	148	45	45	39	6.0/Dovetail	54001-030
50KG	40X40X40	180	56	56	56	8.0/Dovetail	54001-050
30KG	Φ40X30	255	87	82	50	8.0/Dovetail	54002-030

Flexible Arm Magnetic Indicator Stand

Features:

- Flexible arm, it can be adjusted to any position.



Holding Power	Base	L3	Dial of Clamp Hole	Code No.
80KG	60x50x55	340	3.0-13.0	51341-080
80KG	60x50x55	340	3.0-13.0	51342-080
80KG	60x50x55	360	6.0/8.0/Dovetail	51361-080
80KG	60x50x55	370	8.0/Dovetail	51371-080
80KG	60x50x55	330	6.0/8.0	51330-080

Universal Mechanical Arm

Feature:

- All three joints can be locked with single hand knob
- Ball joints enable quick and easy positioning
- Can be applied in many fields



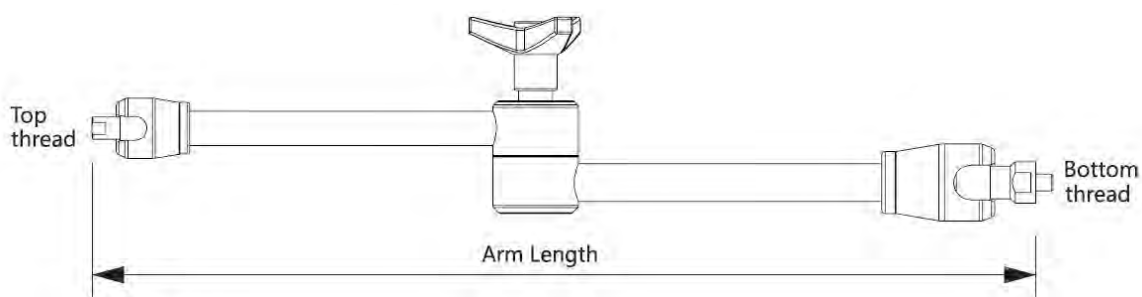
52007 series



52001 series



52004 series

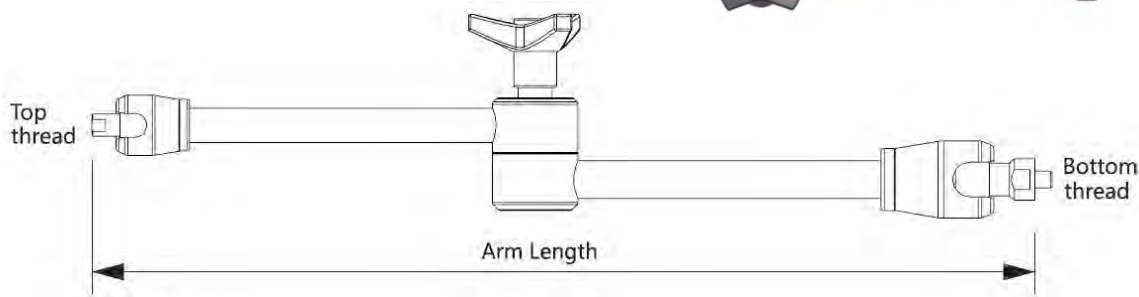


Arm Length	Top thread	Bottom thread (External thread)	Code No.
150	M6 x 1.0 (External thread)	M6 x 1.0	52007-A1
225		M8 x 1.25	52007-A2
285			52007-A3
345			52007-A4
140	M6 x 1.0 (Internal thread)	M5 x 0.8	52001-A1
245		M8 x 1.25	52001-A2
320			52001-A3
570		M10 x 1.25	52001-A4
127	M6 x 1.0 (External thread)	M6 x 1.0	52004-A1
197		M8 x 1.25	52004-A2
289			52004-A3
407			52004-A4

Stainless Steel Universal Mechanical Arm

Feature:

- All three joints can be locked with single hand knob
- Ball joints enable quick and easy positioning
- Made of stainless steel
- Mainly used in medical field
- 500AH series are heavy duty type;
500AL series are light duty type;

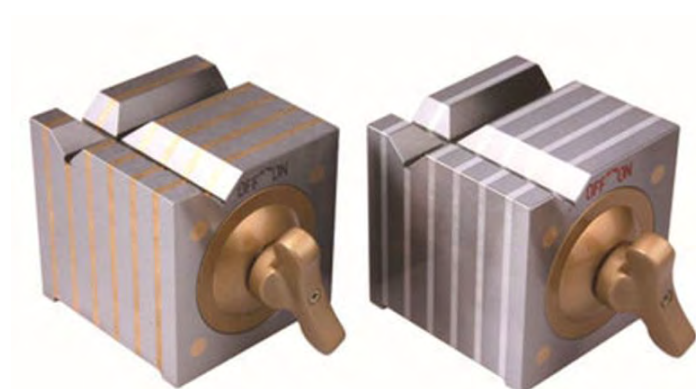


Arm Length	Top thread	Bottom thread	Code No.
550	M6 x 1.0 (Internal thread)	M10 x 1.25 (External thread)	500AH-550
650			500AH-650
750			500AH-750
750	Customization	Customization	500AM-750
450	Customization	Customization	500AL-450
600			500AL-600

Magnetic Square Block

Features:

- Used as a holder for precision work in measuring, marking and other similar operation.
- Measuring available on the upper, side faces, V faces.



50102-025
50152-050

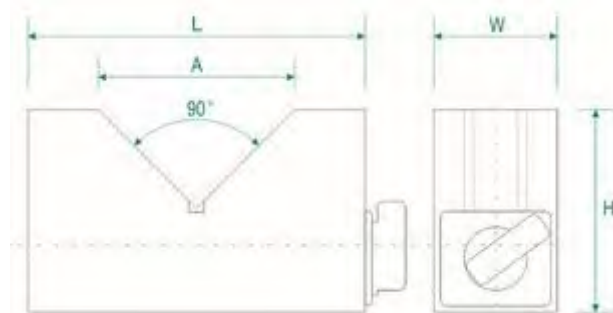
50101-025
50151-050

Holding Power		Dimensions	Main Material	Code No.
V-Groove	Surface			
25KG	50KG	100x100x100	Steel/Aluminum	50101-025
25KG	50KG	100x100x100	Steel/Copper	50102-025
50KG	140KG	150x150x150	Steel/Aluminum	50151-050
50KG	140KG	150x150x150	Steel/Copper	50152-050

Magnetic V-block

Features:

- Used for grinding, light Milling, Drilling & Inspection of Round & Square jobs
- Supplied in matched pair



50001--015



50001--020



50011--015



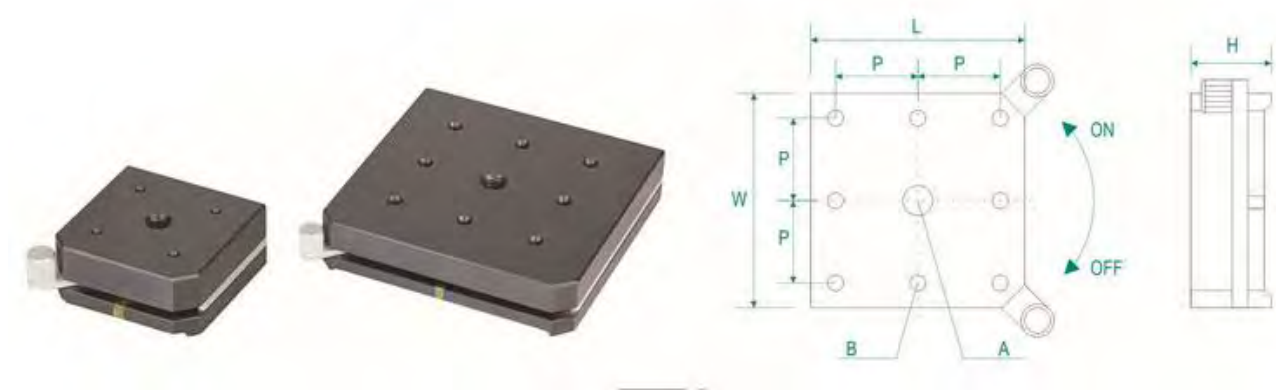
50001--023

Holding Power	L	W	H	A	Applicable Dia.	Code No.
15KG	70	40	50	34	Φ50	50001-015
15KG	70	40	50	34	Φ50	50011-015
20KG	100	50	80	60	Φ80	50001-020
23KG	150	50	100	100	Φ100	50001-023

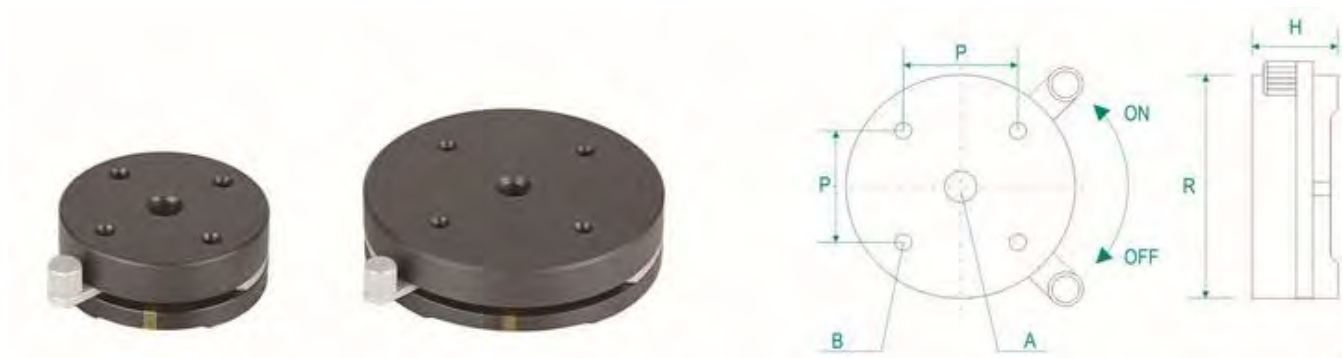
Thin Type Magnetic Holder

Features:

- Thin and powerful magnetic force



Holding Power	Dimensions			Thread		P	Code No.
	W	L	H	A	B		
6.5KG	45	45	20	M8	4-M4	25	50004-007
20KG	65	65	20	M8	8-M4	25	50004-020
25KG	90	90	20	M8	8-M4	25	50004-025
80KG	125	125	30	M16	8-M6	50	50004-080



Holding Power	Dimensions		Thread		P	Code No.
	R	H	A	B		
6KG	50	20	M8	4-M4	25	50005-006
20KG	75	20	M8	4-M4	35	50005-020

Precision Indicator Stand

Features:

- With high quality hardened metal base or natural granite base
- With 8mm clamping hole (optional: 3/8")



Pole Dimensions	Base Dimensions	Code No.
Φ20X200	150x100x40	57201-150
Φ18X170	150x100x40	57181-150
Φ20X170	Φ50	57202-050
Φ25X180	80x80	57251-080
Main Pole: Φ27.5X260 Sub Pole: Φ20X150	115x97	57281-115
Main Pole: Φ14X200 Sub Pole: Φ12X165	150x100x40	57141-150
Φ30X300	150x150x50	57301-150
	230x150x50	57301-250
	300x230x90	57301-300
Φ30X300	150x150x50	57302-150
	230x150x50	57302-230
	300x230x90	57302-300

Precision Level

Features:

- Measuring surface is precision ground
- Frame made of special cast
- Easy adjustment
- Packed with aluminum box



Sensitivity	Size	Code No.
0.02mm/m	100x30mm	60100-002
	150x47mm	60150-002
	200x47mm	60200-002
	300x48mm	60300-002
0.05mm/m	150x47mm	60150-005
	200x47mm	60200-005
	300x48mm	60300-005
0.10mm/m	150x47mm	60150-010
	200x47mm	60200-010
	300x48mm	60300-010

Digital Protractor

IP65

Features:

- With absolute level sensor, can instantly available, no need to calibrate by yourself
- Display always reads upright, no matter which way it is turned
- With backlight, easy to read
- Setup of precision machines
- Low battery indicator

Specification:

- Measuring Range: 4×90°
- Accuracy: 0° and 90°: 0.1°; the rest: 0.2°
- Working Temperature: 0°C ~ 50°C
- Working Humidity: ≤ 85%RH
- Battery: 2×1.5V Alkaline Battery
- IP Grade: IP65



Range	Resolution	Accuracy	L x H x W (mm)	Magnet	Code No.
4 x 90°	0.05°	0.2°	162 x 60 x 33	No	61002-030
				Yes	61002-031

Digital Protractor

Features:

- LCD display hold function
- Absolution and relative level measuring
- Slope and angle conversion
- Magnet on measuring base
- Special angle warning and laser are optional



Length	Range	Resolution	Accuracy	Magnet	Code No.
150mm / 6"	4 x 90°	0.05°	±0.2°	Yes	62060-031
225mm / 9"					62090-031
600mm / 24"					62240-031

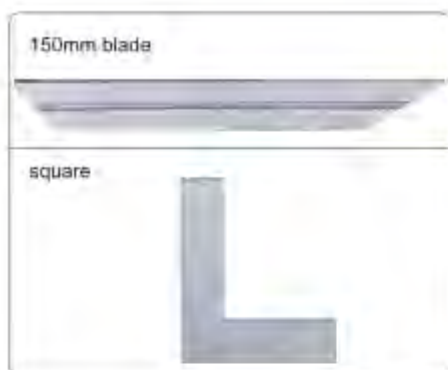
Digital Protractor

Features

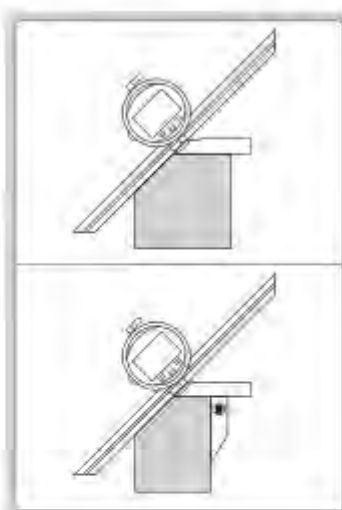
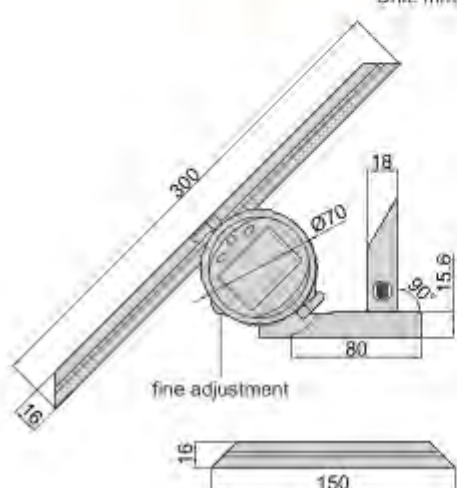
- Measuring range 0 – 360° , choose 0-90°,0-180°,0-360°display
- Display in degree (for example 32.655°) and degree /minute/second(for example 32°39'30")
- Automatic power off
- Supplied with 150mm, 300mm blade and square (to set 90°)
- Made of stainless steel

Specification:

- Resolution: 30" / 0.005°
- Accuracy: $\pm 5'$ / $\pm 0.08^\circ$
- Measuring Range: 360°
- Power: 3V CR2032 Battery



Unit: mm



Concentricity Gauges

Features:

- Precision structure with ball bearing slide.
- Can work together with magnetic stand and measuring tools.
- Light and easy to measure concentricity.
- Customization is available



MCG-A



Technical Data

Model	Measuring range	Support A	Support B	Indicator Holder	Structure
MCG-A	Ø 1-30 mm	Roller with slot	-	Y	Slide Bar
MCG-AR	Ø 1-30 mm	Roller with slot	-	Y	Slide Rail
MTG-A25	Ø 1.5-25 mm	Roller with slot	-	Y	-
MTG-Y25	Ø 3-25 mm	Roller	-	Y	-
MTG-Y25	Ø 1.5-25 mm	Roller with slot	-	Y	Slide Bar
MTG-H25	Ø 1.5-25 mm	Roller	-	Y	Slide Bar
MTG-T25	Ø 1.5-25 mm	Roller with slot	Roller	Y	Slide Rail
MTG-T25-200	Ø 1.5-25 mm	Roller with slot	Roller	Y	Slide Rail
MTG-T25-300	Ø 1.5-25 mm	Roller with slot	Roller	Y	Slide Rail
MTG-T25-600	Ø 1.5-25 mm	Roller with slot	Roller	2x	Slide Rail
MTG-Y35M	Ø 3-35 mm	Roller	-	Y	Motorized

Rockwell Hardness Tester

Features:

- Half automatic hardness tester except for loading preliminary force and adjusting force knob. Operation is very convenient and fast
- Color touch screen, displays loading force, indenter type, dwell time, and conversion scale
- Motorized control of 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 improving accuracy
- Support multiple languages. 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



Code#	751-12-2
Rockwell Scales	HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HRK、HRL、HRM、HRP、HRR、HRS、HRV
Preliminary Test Force	10Kgf(98.07N) Permitted Error: $\pm 2.0\%$
Additional Test Fore	60Kgf(588.4N)、100Kgf(980.7N)、150Kgf(1471N) Permitted Error: $\pm 1.0\%$
Dwell Time	Adjustable 1-60s
Hardness Indication	5.2" Color Touch Screen, Resolution:640x480
Resolution	0.1HR
Loading Control	Auto Loading/Dwell/Unloading
Hardness Conversion	HRC、HV、HBS、HBW、HK、HRA、HRD、HR15N、HR30N、HR45N、HS、HRF、HR15T、HR30T、HR45T、HRB
Conversion Standards	ASTM、DIN
Language Option	Chinese, English, German, Portuguese, Turkish, Czech, Korean
Correction Range	-3.0HR to +3.0HR, Step 0.1HR
Data Memory	2000 Single Measuring Result, Curve Analysis, Results Reviewing And Analysis
Data Output	Optional Blue Tooth Mini Printer
Max. Height Of Specimen	175mm
Instrument Throat	165mm
Power supply	AC220V/50Hz;AC110V/60Hz
Execution Standard	GB/T230.2, EN-ISO6508, ASTM E-18

Pen Type Leeb Hardness Tester

Features:

- D type impact device
- The instrument is compact, convenient, and integrated design without connecting cables, which improves reliability.
- It can also be clearly displayed in direct sunlight, which is applicable to various light conditions without worrying about the strong outdoor light.
- The high-precision measuring circuit ensures the repeatability of the indication value $\pm 0.8\%$ (HLD=800).
- It supports a variety of hardness systems: HL, HV, HRC, HRB, HB, HS.
- Support USB direct charging battery life, fast and convenient.
- Hardness test block is optional
- Building in Wireless is optional (communicate with Android system, software included)



MHT10-D

Stand Accessories

- D type Impact device
- Small support ring
- Cleaning brush
- Charger
- User manual
- Instrument case

Measuring Direction	Support 360° (vertical down, oblique down, horizontal, oblique up, vertical up)		
Hardness Unit	HL, HB, HRB, HRC, HV, HS		
Hardness Range	(170-960)HLD, (19-683)HB, (13.5-101.7)HRB, (17.9-69.5)HRC, (80-1042)HV, (30.6-102.6)HS		
Indication Error	$\pm 0.5\%$ (HLD=800)	Indication repeatability	0.8% (HLD=800)
Size	148mm x 30mm x 30mm	Power supply	Rechargeable lithium battery
Display	128 x 64 OLED LCD	Continuous working time	About 20 hours
Working Condition	Working temperature-10-50°C; Storage temperature: -30°C-60°C; Relative humidity $\leq 90\%$		

Portable Leeb Hardness Tester

Features:

- Unique full system display, all systems can be displayed on the main interface. No need to look up the table, no need to switch.
- It supports a variety of hardness systems: HL, HV, HRC, HRB, HB, HS
- It can store up to 100 groups of hardness measurement data. Each group of data includes single measurement value, average value, impact direction, times, materials, hardness system, testing time and other information.
- Upper computer software is optional to facilitate reading of data
- Bluetooth printer is optional



MHT20-D

Stand Accessories

- D type Impact device
- Main device
- Hardness test block
- Small support ring
- Cleaning brush
- 5# AA battery
- User manual
- Instrument case

Measuring Direction	Support 360° (vertical down, oblique down, horizontal, oblique up, vertical up)
Hardness Unit	HL, HB, HRB, HRC, HV, HS
Hardness Range	(170-960)HLD, (19-683)HB, (13.5-101.7)HRB, (17.9-69.5)HRC, (80-1042)HV, (30.6-102.6)HS
Indication Error	$\pm 6\text{HLD}$ (HLD=760 ± 30)
Storage	100 groups
Materials	Steel and cast steel, alloy tool steel, grey cast iron, ductile iron, cast aluminum alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper
Power	3V (2pcs of AA size alkaline batteries)

Optional Impact Device

Application	Impact Device	Code No.
Normal smooth, flat surface	D	MHT20-D
Hole or hollow cylindrical	DC	MHT20-DC
Slender narrow groove or hole	DL	MHT20-DL
Groove or re-entrant surface	DP	MHT20-DP
Small ,light, thin parts and surface of hardened layer	C	MHT20-C
Large, thick, heavy and rough surface steel I	G	MHT20-G
Suitable for high hardness material	E	MHT20-E

Portable Leeb Hardness Tester with Printer

Features:

- Built-in printer, can print testing results any time
- Large screen (320*240 true color TFT screen and two hardness scales can be displayed at the same time)
- Hardness test can be taken at narrow space and any angle including inverted.
- A wide measuring range supports all metallic materials. Add customized material function, no limitation of measured material
- Seven impact devices are available for special application with automatic impact device recognition.
- Has starting value calibration function, ensure the data is applicable and accurate in different codes and standards
- Large capacity memory storage of 600 subs groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Preset limitation function; it will automatic alarm when the reading is out of range. Especially suitable for batch testing
- Battery voltage information is displayed including the charge status.
- USB port allows information to be uploaded directly to PC.
- High speed thermal printer allows the readings to be immediately printed.
- Rechargeable Li-battery; Automatic power off function.



MHT90P

Stand Accessories

- D type Impact device
- Hardness test block
- Small support ring
- Cleaning brush
- Communication cable
- PC software
- User manual
- Instrument case

Application	Range	Accuracy	Impact Device	Code No.
Normal smooth, flat surface	(170-960) HLD (17-68.5) HRC (19-651) HB	HLD: ± 5 HRC: ± 1 HB: ± 4	D	MHT90-D
Hole or hollow cylindrical			DC	MHT90-DC
Slender narrow groove or hole			DL	MHT90-DL
Groove or re-entrant surface			DP	MHT90-DP
Small ,light, thin parts and surface of hardened layer			C	MHT90-C
Large, thick, heavy and rough surface steel I			G	MHT90-G
Suitable for high hardness material			E	MHT90-E

Portable Hardness Tester

Features:

- Full metal shell design, sturdy. Portable, high reliability
- Large screen (128×64 dot matrix LCD), allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted.
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed
- Seven impact devices are available for special application with automatic impact device recognition.
- Large capacity memory storage of 600 subs groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Upper and lower limit can be preset. An audio alarm will automatically sound when the reading is outside of the preset limits.
- Battery voltage information is displayed including the charge status.
- Starting calibration and user calibration function are available.
- USB port allows for information to be uploaded directly to PC.
- Automatic power off.



MHT80

Stand Accessories

- Impact device
- Hardness test block
- Small support ring
- Cleaning brush
- Communication cable
- PC software
- User manual
- Instrument case

Application	Range	Accuracy	Impact Device	Code No.
Normal smooth, flat surface	(170-960) HLD (17-68.5) HRC (19-651) HB	HLD: ± 5 HRC: ± 1 HB: ± 4	D	MHT80-D
Hole or hollow cylindrical			DC	MHT80-DC
Slender narrow groove or hole			DL	MHT80-DL
Groove or re-entrant surface			DP	MHT80-DP
Small ,light, thin parts and surface of hardened layer			C	MHT80-C
Large, thick, heavy and rough surface steel I			G	MHT80-G
Suitable for high hardness material			E	MHT80-E

Portable Hardness Tester

Features:

- Large screen (128×64 dot matrix LCD), allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted.
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed
- Seven impact devices are available for special application with automatic impact device recognition.
- Large capacity memory storage of 600 subs groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Preset limitation function; it will automatic alarm when the reading is out of range. Especially suitable for batch testing
- Battery information is displayed.
- Starting calibration and user calibration function are available.
- USB port allows for information to be uploaded directly to PC.
- Automatic power off.



MHT30

Stand Accessories

- Impact device
- Hardness test block
- Small support ring
- Cleaning brush
- Communication cable
- PC software
- User manual
- Instrument case

Application	Range	Accuracy	Impact Device	Code No.
Normal smooth, flat surface	(170-960) HLD (17-68.5) HRC (19-651) HB	HLD: ± 5 HRC: ± 1 HB: ± 4	D	MHT30-D
Hole or hollow cylindrical			DC	MHT30-DC
Slender narrow groove or hole			DL	MHT30-DL
Groove or re-entrant surface			DP	MHT30-DP
Small, light, thin parts and surface of hardened layer			C	MHT30-C
Large, thick, heavy and rough surface steel I			G	MHT30-G
Suitable for high hardness material			E	MHT30-E

Digital Shore A/D Type Rubber Hardness Tester

- LED display
- Capacitive measurement system
- Response speed 1.5m/s
- Data hold function



Range	Resolution	Accuracy	Code No.
0-100HA	0.5HA	2HA	MHA100
0-100HD	0.5HD	2HD	MHD100

Portable Surface Roughness Tester

Features:

- Composite structure, small size, light weight
- DSP chip control and data processing, high speed, low power consumption
- Automatically shift the measuring range
- Dynamic display waveform in real time
- Using TYPE C and Mini USB interface, applied to communication and automatic control
- Capable of change display orientation for easy operation to suit right, left-hander
- Can choose standards among ISO4287, ANSI B46.1, DIN4768, JISb601 and other national standards
- Upper and lower limit alarm can be set
- Support to delete single or multiple records
- Display full information, intuitive and graphical displays all parameters
- Built in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect
- The tester can graphically display the remaining battery power
- Continuous working time 20 hours
- Large capacity data storage, can store 100 item of raw data and measured profile
- Real-time clock setting and display for easy data recording and storage
- With automatic sleep, automatic shutdown power-saving features
- Reliable circuit and software design of prevent the motor stuck
- Instrument can display a variety of information tips and instructions. For example Measurement result display, the menu prompts and error message
- All parameters can be printed or print any of the parameters which set by the user
- Can be connected with computer and mini printer
- Optional: curved sensor, very small holes sensor, measurement stand, extension rod, printer etc.



MSR230

Technical Data

Measuring rang	The Z axis (vertical)	160μm
	The X axis (Transverse)	17.5mm / 0.69 inch
Resolution	the Z axis (vertical)	0.002μm/±20μm, 0.004μm/±40μm, 0.008μm/±80μm
Screen		320× 240 dot matrix, color Display
Parameter		Ra, Rz, Ry, Rq, Rc, Rt, Rmax, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rku, Rsm, Rpc, Rmr
Standard		ISO4287,ANSI b46.1,DIN4768,JISb601

Graphic		primary profile, roughness profile, load curves
Filter		RC, PC-RC, Gauss, D-P
The sampling length(lr)		0.25, 0.8, 2.5mm
Assessment length (ln)		$ln = lr \times n$ $n=1\sim5$
Sensor	Stylus tip	Natural Diamond, 90°/60°angle, 2μm/5μm tip radius
	Measuring Force	<4mN
	Probe head	hard alloy, skid radius of curvature: 40mm
	Traversing 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		±(5nm+0.1A) A: Ra of calibration test block
Repeatability		not more than 3%
Power supply		Built-in 3.7VLithium ion battery, Charger :DC5V, 800mA
Outline dimension		142×55×40mm
working Environment		Temperature: - 20°C ~ 40°C Humidity: < 90% RH
Store and Transportation		Temperature: - 40°C ~ 60°C Humidity: < 90% RH

Probe Option

Probe		Description
KS100	Small hole sensor	Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness. Need to work with platform KA520 or KA620.
KS110	Curved surface sensor	Measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation.
KS120	Very small hole sensor	Measure inner surfaces of holes with radius more than 2mm. Need to work with platform KA520 or KA620.
KS130	Groove sensor	Measure surface for groove with width $\geq 2.5\text{mm}$, depth $\leq 3\text{mm}$, and for steps with height $\leq 3\text{mm}$
KS131	Deep groove sensor	Measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can be used to measure the planar, cylindrical used with platform, better to work with platform KA520 or KA620.

Portable Surface Roughness Tester

Features:

- Mechatronics and ergonomics design, small size, light weight, easy to operation
- The stylus drive unit can be stored within the main unit for standard measurement, or separated from the display unit by using the supplied cable which allows more flexible measurement in any orientation. The driver can be separated and reattached in one simple step
- 3.5 inches color graphic LCD touch screen, it includes a backlight for visibility in dark environments
- It displays all parameter and graphic
- Can be operated using the buttons or the touch screen
- Measurement range up to $320\mu\text{m}$
- Large internal memory: 100 item of raw data and curves can be stored
- Provides Bluetooth Capability , support wireless connection with mobile and mini printer
- Built-in lithium-ion rechargeable battery and controlling circuit, high capacity, no memory effect
- There is remaining charge indicator, charging hint
- It works over 50 hours while fully charged.
- Language: Chinese and English
- DSP chip control and data processing, high speed, low power consumption
- Real-time clock setting and display for easy data recording and storage
- With auto sleep, auto power off, power-saving features
- Reliable circuit and software design to preventing the motor stuck
- All parameters or any of the parameters which set by users can be printed



MSR310

Technical Data

Measuring rang	The Z axis (vertical)	320μm (-160μm~+160μm) , 12600μin (-6300μin~+6300μin)
	The X axis (Transverse)	17.5mm (0.69 inch)
Resolution	the Z axis (vertical)	0.002μm/±20μm, 0.004μm/±40μm 0.008μm/±80μm, 0.02μm/±160μm
Parameter		Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm Rmr RPc Rk Rpk Rvk Mr1 Mr2
Graphic		load curve, Roughness profile, filtered curve
Filter		RC,PC-RC,Gauss,D-P
The sampling length(lr)		0.25, 0.8, 2.5mm
Assessment length (ln)		Ln= lr×n n=1~5

Sensor	Stylus tip	Diamond, 90 cone angle, 5μmR
	Measuring Force	Measuring force<4mN, Skid force<400mN
	Probe head	hard alloy, skid radius of curvature: 40mm
	Traversing 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
Precision		0.001μm
Tolerance		not more than ±10%
Repeatability		not more than 6%
Power supply		Built-in Lithium ion battery 3200mAh, Charger :DC5V
Outline dimension		Main unit: 158×55×52mm drive unit: 23×27×115mm
working Environment		Temperature: - 20°C ~ 40°C Humidity: < 90% RH
Store and Transportation		Temperature: - 40°C ~ 60°C Humidity: < 90% RH
Standards		ISO4287, ANSI B46.1, DIN4768, JIS B601
Standard Sensor		Groove Sensor

Probe Option

Probe		Description
KS100	Small hole sensor	Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness. Need to work with platform KA520 or KA620.
KS110	Curved surface sensor	Measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation.
KS120	Very small hole sensor	Measure inner surfaces of holes with radius more than 2mm. Need to work with platform KA520 or KA620.
KS130	Groove sensor	Measure surface for groove with width ≥2.5mm, depth ≤3mm, and for steps with height ≤3mm
KS131	Deep groove sensor	Measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can be used to measure the planar, cylindrical used with platform, better to work with platform KA520 or KA620.

Portable Surface Roughness Tester

Features:

- Mechatronics design, embedded printer can directly print out measurement results and graphics
- External drive unit, allows more flexible measurement in side, upward, and other orientation
- 320 μ m large measuring range (enhanced type up to 640 μ m, optional)
- 3.5 inches color graphic LCD touch screen with backlight provide high brightness and wide viewing angle
- Easy button and touch screen dual operation
- The display information is rich, intuitive, and displays all parameters and graphics
- Compatible with ISO, DIN, ANSI, JIS and many national standards
- Built-in lithium-ion rechargeable battery, charging control circuit, high capacity, no memory effect
- include charge indicator, charging hint
- Continuous working time is more than 50 hours
- Large internal memory: 100 groups of original data and waveform can be stored
- Real-time clock setting and display, convenient for data recording and storage.
- With automatic sleep, automatic shutdown and other power-saving functions
- Reliable circuit and software design to prevent the motor stuck



MSR320

Technical Data

Measuring rang	The Z axis (vertical)	640μm (-320μm~+320μm) , 25200μin (-12600μin~+12600μin)
	The X axis (Transverse)	17.5mm (0.69 inch)
Resolution	the Z axis (vertical)	0.002μm/±20μm, 0.004μm/±40μm
		0.008μm/±80μm, 0.02μm/±160μm, 0.04μm/±160μm
Parameter		Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm Rmr RPc Rk Rpk Rvk Mr1 Mr2
Graphic		Rmr curve, Roughness curve, Primary Profile, Filter waveform
Filter		RC,PC-RC, Gauss, D-P
The sampling length(lr)		0.25, 0.8, 2.5mm
Assessment length (ln)		Ln= lr×n n=1~5
Sensor	Stylus tip	Diamond, 90 cone angle, 5μmR
	Measuring Force	Measuring force<4mN, Skid force<400mN
	Probe head	hard alloy, skid radius of curvature: 40mm
	Traversing speed	lr=0.25, Vt=0.135mm/s lr=0.8, Vt=0.5mm/s

		Ir=2.5, Vt=1mm/s Return Vt=1mm/s
Precision		0.001μm
Tolerance		not more than ±10%
Repeatability		≤ 3%
Power supply		Built-in Lithium ion battery 3600mAh, Charger: DC5V
Outline dimension		Main unit: 155×145×58mm drive unit: 23×27×115mm
working Environment		Temperature: - 20°C ~ 40°C Humidity: < 90% RH
Store and Transportation		Temperature: - 20°C ~ 40°C Humidity: < 90% RH
Standards		ISO4287, ANSI B46.1, DIN4768, JIS B601
Standard Sensor		Groove Sensor

Probe Option

Probe		Description
KS100	Small hole sensor	Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness. Need to work with platform KA520 or KA620.
KS110	Curved surface sensor	Measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation.
KS120	Very small hole sensor	Measure inner surfaces of holes with radius more than 2mm. Need to work with platform KA520 or KA620.
KS130	Groove sensor	Measure surface for groove with width ≥2.5mm, depth ≤3mm, and for steps with height ≤3mm
KS131	Deep groove sensor	Measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can be used to measure the planar, cylindrical used with platform, better to work with platform KA520 or KA620.

Roughness Waviness Tester

Brief introduction

- Integrated roughness waviness tester is used to describe the surface structure of processed parts, and is suitable for testing in workshop verification stations, laboratories, measurement rooms, and other environments. It is also suitable for on-site measurement. It can evaluate 5 measurement types: roughness profile, waviness profile, primary profile, abbot curve and motif. The measurement parameters include China, Japan, United States, Germany, and various ISO standards. With a user-friendly software interface and convenient operating habits, software can record configurations under different operating scenarios. When measuring different work pieces, it is not need to make complicated settings, just select the configuration and click to measure.



Product features

- 30mm large stroke
- $\pm 500\mu\text{m}$ ultra-large range inductive sensor
- Roughness Profile, Waviness Profile, Primary Profile, Abbott Curve and Motif can be measured.
- Using the measurement method without guide head. Only a stylus can solve R angle, deep groove, curved surface, deep hole, channel and other complex work pieces.
- The sensor is connected to the host through a lifting frame, and the height of the sensor can be adjusted without the aid of a platform
- The combination of software + instrument makes it more convenient to carry.
- The parameters are complete, including 5 measurement types and various national standards.

Technical Parameters

Mode		MSR330
Range	X direction	30mm
	Z direction	$\pm 500\mu\text{m}$
Sensor resolution		$0.0016\mu\text{m}/\pm 50\mu\text{m} \sim 0.016\mu\text{m}/\pm 500\mu\text{m}$
Driver	Straightness	$1\mu\text{m}/200\text{mm}$
Analysis Algorithm	Executive standard	
	JIS-82、JIS-87、JIS-94、JIS-01、JIS-13、ISO-84、ISO-97、DIN-90、ASME-95、GB-14	
	P a r a m e t e r	
	Roughness Profile	Ra75、Rq、Rp、Rv、Rc、Rt、S、R3z、PPI、Ra、Rsk、Rku、Ry、Sm、RΔa、RΔq、Rz、Pc、Rλa、Rλq、Ir、RSm、Rz94、RPc、RS、Rz.I、Rpm、HSC
	Waviness Profile	WCA、WCC-q、WCC-p、WCC-v、WCC-m、WCC2Sm、WCA、WC-q、WC2p、WC-v、WCM、WC2Sm、WC-t、Wa、Wq、Wsk、Wku、Wp、Wv、Wz、Wc、Wt、WSm、WΔq、WPc

	r s	Primary Profile		Rsk、Rku、Rmax、Sm、Δa、Δq、Rz、λa、λq、Ir、TILT A、AVH、Hmax、Hmin、AREA、Rz.J、Pa、Pq、Psk、Pku、Pp、Pv、Pc.I、Pt、PSm、PΔq、PPc、Pc
		Abbot Curve		Rk、Rpk、Rvk、Mr1、Mr2、V0、K、A1、A2
		Motif		NCRX、AR、R、Rx、NR、CPM、SR、SAR、AW、W、Wx、Wte、NW、SW、SAW、Rke、Rpke、Rvke、Mr1、Mr2、V0、K
	Evaluation Curve		Roughness profile 、Waviness profile、Primary profile、Abbot curve、Motif	
	Characteristic curve		Abbot curve(Rmr(c) 、Rmr2(c)、Rδc(c)、tp(c)、tp2(c)、Htp(c))、amplitude frequency analysis curve、amplitude distribution curve	
	Form Remove		Global、first half、second half、center、2 points、curve	
	Filter type		Gaussian、FFT、PC、DP、2RC	
	Filter wave length	λs	0、2.5、8、25μm	
		λc	0.08、0.25、0.8、2.5、8mm	
		λf	0.8、2.5、8、25mm	
Evaluation length				Sampling length X number of samples
Measurement speed				0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s
Return speed				0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s
Sensor	Mode		Standard universal type	
	Sensor mode		Differential inductance	
	Stylus		5μmR diamond90°	
	Measuring force		0.4 - 7.5mN adjustable	
Operator	Display part		5-inch color IPS touch screen	
	Data output		TF card/Flash disk/ WiFi printing	
	Languages		Chinese, English	
Power				AC220V, Built-in rechargeable battery (AC adapter charging)

Standard configurations

Main device	1
Sensor	1
Charger	1
Standard stylus	1
Roughness standard test block	1
Product certificate	1
Product manual	1
Warranty card	1
Waterproof Instrument case	1
Allen wrench	1

Roughness Waviness Tester

Brief introduction

- MSR330P roughness waviness tester is a multi-purpose portable Instrument for evaluating the surface quality of parts. It has multiple parameters that comply with multiple international standards. It can evaluate the roughness, waviness and primary profile of a variety of parts' surfaces. It has characteristics of large measuring range, stable performance and high precision, and suitable for production sites, scientific research laboratories and enterprise measurement rooms. The measurement results can be displayed on the LCD in digital and graphic ways, or output to the printer, and also can be connected to a computer. The special computer analysis software can directly control the measurement operation and provide powerful advanced analysis functions.



Product features

- 50mm large stroke
- $\pm 500\mu\text{m}$ and $\pm 1000\mu\text{m}$ ultra-large range inductive sensor are optional
- Roughness Profile, Waviness Profile, Primary Profile, Abbott Curve and Motif can be measured.
- Using the measurement method without guide head. Only a stylus can solve R angle, deep groove, curved surface, deep hole, channel and other complex work pieces.
- The sensor is connected to the host through a lifting frame, and the height of the sensor can be adjusted without the aid of a platform
- The combination of software + instrument makes it more convenient to carry.
- The parameters are complete, including 5 measurement types and various national standards.

Technical Parameters

Mode		MSR330P	MSR330P+
Range	X direction	50mm	
	Z direction	$\pm 500\mu\text{m}$	$\pm 1000\mu\text{m}$
Sensor resolution		$0.0016\mu\text{m}/\pm 50\mu\text{m} \sim 0.016\mu\text{m}/\pm 500\mu\text{m}$	
Driver	Straightness	$1\mu\text{m}/200\text{mm}$	
Analysis Algorithm	Executive standard		JIS-82、JIS-87、JIS-94、JIS-01、JIS-13、ISO-84、ISO-97、DIN-90、ASME-95、GB-14
	Parameter	Roughness Profile	Ra75、Rq、Rp、Rv、Rc、Rt、S、R3z、PPI、Ra、Rsk、Rku、Ry、Sm、RΔa、RΔq、Rz、Pc、Rλa、Rλq、Ir、RSm、Rz94、RPc、RS、Rz.I、Rpm、HSC
		Waviness Profile	WCA、WCC-q、WCC-p、WCC-v、WCC-m、WCC2Sm、WCA、WC-q、WC2p、WC-v、WCM、WC2Sm、WC-t、Wa、Wq、Wsk、Wku、Wp、Wv、Wz、Wc、Wt、WSm、WΔq、WPc

	r s	Primary Profile		Rsk、Rku、Rmax、Sm、Δa、Δq、Rz、λa、λq、Ir、TILT A、AVH、Hmax、Hmin、AREA、Rz.J、Pa、Pq、Psk、Pku、Pp、Pv、Pc.I、Pt、PSm、PΔq、PPc、Pc
		Abbot Curve		Rk、Rpk、Rvk、Mr1、Mr2、V0、K、A1、A2
		Motif		NCRX、AR、R、Rx、NR、CPM、SR、SAR、AW、W、Wx、Wte、NW、SW、SAW、Rke、Rpke、Rvke、Mr1、Mr2、V0、K
	Evaluation Curve		Roughness profile 、Waviness profile、Primary profile、Abbot curve、Motif	
	Characteristic curve		Abbot curve(Rmr(c)、Rmr2(c)、Rδc(c)、tp(c)、tp2(c)、Htp(c))、amplitude frequency analysis curve、amplitude distribution curve	
	Form Remove		Global、first half、second half、center、2 points、curve	
	Filter type		Gaussian、FFT、PC、DP、2RC	
	Filter wave length	λs	0、2.5、8、25μm	
		λc	0.08、0.25、0.8、2.5、8mm	
		λf	0.8、2.5、8、25mm	
Evaluation length				Sampling length X number of samples
Measurement speed				0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s
Return speed				0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s
Sensor	Mode		Standard universal type	
	Sensor mode		Differential inductance	
	Stylus		5μmR diamond90°	
	Measuring force		0.4 - 7.5mN adjustable	
Operator	Display part		10-inch color IPS touch screen	
	Data output		TF card/Flash disk/ WiFi printing	
	Languages		Chinese, English	
Power				AC220V, Built-in rechargeable battery (AC adapter charging)

Standard configurations

Main device	1
Sensor	1
Industrial Pad	1
Charger	1
Standard stylus	1
Roughness standard test block	1
Product certificate	1
Product manual	1
Warranty card	1
Waterproof Instrument case	1
Allen wrench	1

Ultrasonic Thickness Gauge

Features:

- Adopting PE and VERI measuring modes, accurate thickness measurement can be carried out for various materials
- Using high precision timing chip and V-PATH calibration model, the measurement range is wide and the measurement precision is high
- Display resolution is 0.01mm
- LCD display contrast adjustable, and with LED backlight, can be used in variety of environments



MUT100

Technical Data

Working Theory	Ultrasonic	Measuring Error	H < 10mm: $\pm 0.05\text{mm}$ H $\geq 10\text{mm}$: $\pm (0.05 + H/100)\text{mm}$
Testing Model	PE / VERI	Testing Range	0.65 - 500 mm
Resolution	0.01mm	Display Size	2.0" FSTN
Testing Materials	Steel, Iron, Glass Plastic, Aluminum	Velocity Range	1000 – 9999 m/s
Storage Capacity	500 group data	Working Temperature	0°C~50°C
Humidity	$\leq 90\%$	Power	2x 1.5V AA battery

Probe Option

Probe	Spec	Measuring Range	Working Temperature
5M	Standard probe	1.0-250 mm	-10 ~ 60°C
2M	Coarse grain probe	2.0-500 mm	
7M	High precision probe	0.75-35 mm	
H2M	High temperature probe	4.0-80.0 mm	-10 ~ 350°C

Integrated Coating Thickness Gauge

Features:

- Integration of two thickness measurement methods, magnetic and eddy current
- Can measure the thickness of the non-magnetic coating layer on the magnetic metal substrate, and the thickness of the non-conductive or non-magnetic coating layer on the non-magnetic metal substrate.
- High-precision measurement mode can average multiple measurements and automatically filter suspicious data to ensure more accurate and stable measurement values; fast measurement mode can realize real-time scanning function.
- With temperature compensation function: The domestic leading real-time temperature compensation technology can automatically compensate the measurement error caused by the environment temperature and the temperature change of the probe, making the measurement more accurate.
- Equipped with Bluetooth adapter, can connect to the upper computer software, making it easy to view data and export data documents.
- PC software optional, convenient the data transmission, analysis, printing etc.



MCT100

Technical Data

Working Principle		Magnetic indication	Eddy currents
Probe type		F	N
Measurement range (μm)		0-1500	0-1500 Chromium plating on copper 0-40
Resolution (μm)		0.1	
Indication value	One-point calibration (μm) (H is the actual thickness of the measurement object)	$\pm(3\%H+1)$	$\pm(3\%H+1.5)$
	Two-points calibration (μm) (H is the actual thickness of the measurement object)	$\pm[(1-3)\%H+1]$	$\pm[(1-3)\%H+1.5]$
Test conditions	Minimum radius of curvature (mm)	Convex 3	Convex 3
	Diameter of minimum area (mm)	Ø7	
	Critical thickness of matrix (mm)	0.5	0.3

Portable Coating Thickness Tester

Features:

- Integration of two thickness measurement methods, which can measure the thickness of the non-magnetic coating layer on the magnetic metal substrate and non-conductive coating layer on the non-magnetic metal substrate.
- There are three measurement modes: high-precision measurement mode can average multiple measurements and automatically filter suspicious data to ensure more accurate and stable measurement values; fast measurement mode can realize real-time scanning function.
- With temperature compensation function. The domestic leading real-time temperature compensation technology can automatically compensate the measurement error caused by the environment temperature and the temperature change of the probe, making the measurement more accurate.
- There are five statistics: mean value (MEAN), maximum value (MAX), minimum value (MIN), number of measurements (NO.), and standard deviation (S.DEV).
- Support real-time upload of coating thickness via Bluetooth



MCT200

Technical Data

Working Principle		Magnetic indication	Eddy currents
Probe type		F	N
Measurement range (um)		0-1500	0-1500 Chromium plating on copper 0-40
Resolution (um)		0.1um(0~99um) , 1um(>99um)	
Indication value	One-point calibration (um) (H is the actual thickness of the measurement object)	$\pm(3\%H+1)$	$\pm(3\%H+1.5)$
	Two-points calibration (um) (H is the actual thickness of the measurement object)	$\pm[(1-3)\%H+1]$	$\pm[(1-3)\%H+1.5]$
Test conditions	Minimum radius of curvature (mm)	Convex 3	Convex 3
	Diameter of minimum area (mm)	Ø7	
	Critical thickness of matrix (mm)	0.5	0.3

Portable Coating Thickness Tester

Features:

- Fast, non-destructive, precise measurement of various coating thicknesses.
- Measure thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel), also can measure thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, plastic) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel);
- Various probes optional, probe auto matching;
- Durable ruby probe, more wear and precise;
- Full metal shell design, sturdy, portable, high reliability;
- Alarm function when overrun the settable limiting range;
- Five statistics values [MEAN, MAX, MIN, NO., S.DEV] higher measurement accuracy;
- Large storage, easy to delete single or multiple saved values;
- PC software optional, convenient the data transmission, analysis, printing etc.



MCT300

Technical Data

Measuring Range	Standard 0~1250μm (MAX 10000μm with probe F10)
Resolution	0.1μm/1μm
Accuracy	±2%H+1μm Note: H is thickness reading
Display	128x64 LCD with backlight
Memory	5 files x 99 values
Working Temperature	Operation Temp. :-10°C~50°C / Storage Temp. :-30°C~70°C
Power	AA battery 2pcs (Non-aviation transport)
Size	125x67x31mm

Probe Option

Probe	Range	Spec
F1	0-1250 um	Measuring thickness of non-magnetic coating on magnetic substrate
N1	0-1250 um	Measuring thickness of non-conductive coatings on conductive substrate
F1/90	0-1250 um	Use to measuring surface that can't be touch by ordinary probe, it can measure the thickness of non-magnetic coating on magnetic substrate.
F10	0-10000 um	Measuring thickness of non-magnetic coating on magnetic substrate

Smart Series Leeb Hardness Tester

Features:

- Use mobile phones to realize full-standard display, distributed storage, and automatic data upload.
- Support Android system smart phone.
- Sensor can be recognized automatically, plug and play without complicated process. Allowing data storage, query, and multi-platform sharing
- Super strong electromagnetic anti-interference ability is realized through full shielding technology, which is suitable for on-site hardness measurement.
- Convenient report generation and report printing



Stand Accessories

- D type Impact device
- Data Cable
- Cleaning brush
- Software
- Small support ring
-

Measuring Direction	Support 360° (vertical down, oblique down, horizontal, oblique up, vertical up)
Hardness Unit	HL, HB, HRB, HRC, HV, HS
Hardness Range	(170-960)HLD, (19-683)HB, (13.5-101.7)HRB, (17.9-69.5)HRC, (80-1042)HV, (30.6-102.6)HS
Indication Error	± 6HLD (HLD=760 ± 30)
Storage	100 groups
Materials	Steel and cast steel, alloy tool steel, grey cast iron, ductile iron, cast aluminum alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper

Optional Impact Device

Application	Impact Device	Code No.
Normal smooth, flat surface	D	MHT20-D
Hole or hollow cylindrical	DC	MHT20-DC
Slender narrow groove or hole	DL	MHT20-DL
Groove or re-entrant surface	DP	MHT20-DP
Small ,light, thin parts and surface of hardened layer	C	MHT20-C
Large, thick, heavy and rough surface steel I	G	MHT20-G
Suitable for high hardness material	E	MHT20-E

Smart Series Surface Roughness Tester

Features:

- Use mobile phones to realize full-standard display, distributed storage, and automatic data upload.
- Support Android system smart phone.
- Sensor can be recognized automatically, plug and play without complicated process. Allowing data storage, query, and multi-platform sharing
- Compatible with ten standards including JIS-82, JIS-87, JIS-94, JIS-01, JIS-13, ISO-84, ISO-97, DIN-90, ASME-95, GB-14
- Convenient report generation and report printing



Technical Data

Measuring Rang	The Z axis	±100μm
	The X axis	17.5mm
Sensor	Stylus tip	Diamond, 90 cone angle, 5μmR
	Measuring Force	Measuring force<4mN
	Measuring Speed	0.5mm/s
	Return speed	1.0mm/s
Tolerance		no more than ±10%
Repeatability		no more than 6%
Parameter		Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm Rmr R _{Pc} Rk R _{pk} Rvk Mr1 Mr2

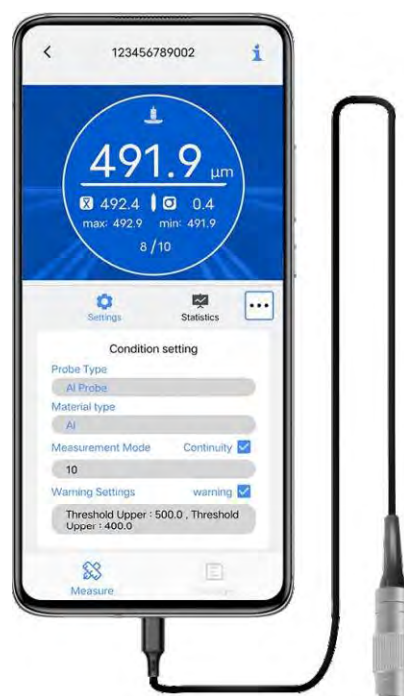
Probe Option

Probe		Description
KS100	Small hole sensor	Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness.
KS110	Curved surface sensor	Measure smooth cylindrical surface which radius which larger than 3mm
KS120	Very small hole sensor	Measure inner surfaces of holes with radius more than 2mm.
KS130	Groove sensor	Measure surface for groove with width ≥2.5mm, depth ≤3mm, and for steps with height ≤3mm
KS131	Deep groove sensor	Measure groove which width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm

Smart Series Coating Thickness Gauge

Features:

- Use mobile phones to realize full-standard display, distributed storage, and automatic data upload.
- Support Android system smart phone.
- Sensor can be recognized automatically, plug and play without complicated process. Allowing data storage, query, and multi-platform sharing
- Super strong electromagnetic anti-interference ability is realized through full shielding technology, which is suitable for on-site hardness measurement.
- Convenient report generation and report printing.



Technical Data

Working Principle		Magnetic indication	Eddy currents
Probe type		F	N
Measurement range (um)		0-1500	0-1500 Chromium plating on copper 0-40
Resolution (um)		0.1μm(0~99μm) , 1μm(>99μm)	
Indication value	One-point calibration (um) (H is the actual thickness of the measurement object)	±(3%H+1)	±(3%H+1.5)
	Two-points calibration (um) (H is the actual thickness of the measurement object)	±[(1-3)%H+1]	±[(1-3)%H+1.5]
Test conditions	Minimum radius of curvature (mm)	Convex 3	Convex 3
	Diameter of minimum area (mm)	Ø7	
	Critical thickness of matrix (mm)	0.5	0.3

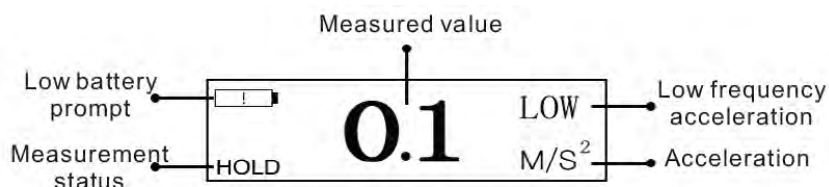
Pen Type Vibration Tester

Features:

- Dot matrix liquid crystal display, with AVD display function and high frequency acceleration display function. It can carry out simple fault Diagnosis
- Small size, solid shell, good electromagnetic anti-interference ability.
- Powered by two LR44 batteries, ultra-low power consumption
- Two keys to complete all operations, easy to understand



MVT100



Technical Data

Measurement Parameters	High frequency acceleration, low frequency acceleration, velocity, displacement	Measuring Range	Acceleration: 0.1m/s ² -290.0m/s ² (peak value) Velocity: 0.1mm/s-290.0mm/s(valid value) Displacement: 0.001mm-2.900 mm (peak-peak value)
Measurement Error	Accuracy: ±5% + 2 digits (% reading + digits), Calibration period is one year;	Frequency Range	Acceleration: 10Hz ~ 1kHz(LO) 1kHz ~ 15kHz(HI) Velocity: 10Hz ~ 1kHz Displacement: 10Hz ~ 500Hz
Display	LCD display	Working Environment	Temperature 0℃ ~ 40℃ ; Relative humidity<85%
Battery	2pcs of LR44		
Battery Life	Continuous work for about 4 hours, intermittent use about 300 times		

Standard Profile Projector

Features:

MPR-3000/3000E series digital profile projector is an ergonomic and reliable measuring instrument with competitive price. This instrument, which equips with footswitch, integrates optics, machinery and electronics, is able to sufficiently carry out direct measurement and comparative measurement for measured workpiece, such as stamping parts, gear, thread, and milling cutter, etc. It is widely used in the fields of machine manufacturing, electronics, mold, meter, etc.



Model	Reverse Image	MPW-3007	MPW-3010	MPW-3015
	Erect Image	MPW-3007E	MPW-3010E	MPW-3015E
Worktable	Metal table size (mm)	260×152	306×152	340×152
	Glass table size (mm)	125×100	175×100	196×96
	X-axis Travel (mm)	75	100	150
	Y-axis Travel (mm)	50	50	50
	Z-axis Travel (mm)	90 (Focusing)		
	Resolution (μm)	0.5		
	Indication error (mm)	$E1XY=(2.5+L/100)$	$E1XY=(2.5+L/75)$	$E1XY=(3+L/50)$
	Dimension (mm)	770×550×1100	770×550×1100	770×550×1100
	Weight (kg)	120	125	130
Projection Screen	Size (mm)	Ø 312, operating range > Ø 300 (crosshairs)		
	Rotary range	0~360°		
	Resolution	1' or 0.01°		

Lens	Magnification *	10× (Optional)	20× (Optional)	50× (Optional)	100× (Optional)
	Field of view (mm)	Φ30	Φ15	Φ6	Φ3
	Working distance (mm)	77.7	44.3	38.4	25.3
	Max. measuring height (mm)	80	80	80	80
Optional Accessories		Printer, edge detector, Measuring software M2D-CPJ, etc.			
Power supply: AC 100-240V 50/60Hz. Total power: 400W					

* Select one of them as standard configuration

High Precision Profile Projector

Features:

MPW-3000P/PE series digital profile projector is an ergonomic and reliable measuring instrument with premium quality. This instrument is equipped with foot-switch and multi-functional data processing system, which is convenient to output data and sample, enabling the user to effectively and sufficiently inspect the measured objects. This instrument, which integrates optics, machinery and electronics, is able to sufficiently carry out direct measurement and comparative measurement for measured workpiece, such as stamping parts, gear, thread, and milling cutter, etc. It is widely used in the fields of machine manufacturing, electronics, mold, meter, etc.



Model	Reverse Image	MPW-3015P	MPW-3020P	MPW-3025P	MPW-3030P	MPW-3040P
	Erect Image	MPW-3015PE	MPW-3020PE	MPW-3025PE	MPW-3030PE	MPW-3040PE
Worktable	Metal table size (mm)	354×228	404×228	450×280	500×330	606×466
	Glass table size (mm)	210×160	260×160	306×196	321×221	450×350
	X-axis Travel (mm)	150	200	250	295	400
	Y-axis Travel (mm)	100	100	150	195	300
	Z-axis Travel (mm)	100 (Focusing)				
	Resolution (μm)	0.5				
	Accuracy (mm)	$E_{1\lambda y} = (2.5 + L/100)$				
	Dimension (mm)	780×780×1100	780×780×1100	810×780×1120	900×780×1020	1040×780×1120
	Weight (Kg)	160	160	180	250	250
Projection screen	Size (mm)	Ø 312, operating range > Ø 300 (crosshairs)				
	Rotary range	0~360°				
	Resolution	1' or 0.01°				

Lens	Magnification *	10× (Optional)	20× (Optional)	50× (Optional)	100× (Optional)
	Field of view (mm)	Φ30	Φ15	Φ6	Φ3
	Working distance (mm)	77.7	44.3	38.4	25.3
	Max. measuring height (mm)	90	90	90	80
Optional Accessories		Printer, edge detector, Measuring software M2D-CPJ, etc.			
Power supply: AC 100-240V 50/60Hz. Total power: 400W					

* Select one of them as standard configuration

Optical Measuring Machine (Manual)

Features:

- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- 6.5X Detented zoom lens, magnification 0.7x-4.5x
- 1.3M pixel digital camera
- Programmable 3-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.5um high resolution linear scale
- Laser indicator navigator
- Powerful measuring software
- PC included
- Co-axial light and auto zoom lens are optional
- Compatible with Renishaw touch probe (optional). User can easily achieve 2D and 3D measuring function in one machine.



Code		MMV2010	MMV3020	MMV4030	MMV5040
X/Y/Z-axis Travel (mm)		200x100x200	300x200x200	400x300x200	500x400x200
Accuracy (um)		2.5+L/100	2.5+L/100	2.5+L/100	3+L/100
Repeatability		2um			
Scale Resolution		0.5 um			
Optical System	CCD	1.3M pixel digital camera			
	Lens	Magnification 0.7x-4.5x			
	FOV	8.1-1.3mm			
	Distance	90mm			
Machine Dimension (LxWxH)(mm)		550x540x830	600x740x890	700x840x890	800x940x890
Machine Weight (kg)		140	190	240	290

Optical Measuring Machine (CNC)

Features:

- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- Auto zoom lens 1-10x
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.1um high resolution linear scale
- Laser indicator navigator
- Full CNC control with Joystick
- Powerful measuring software
- PC included
- Co-axial light and laser sensor are optional
- Compatible with Renishaw touch probe (optional) and MCR20 rack (optional). Provide powerful 2D and 3D measuring function.



Code		MCV3020	MCV4030	MCV5040	MCV6050
X/Y/Z-axis Travel (mm)		300x200x200	400x300x200	500x400x200	600x500x200
Accuracy (um)		2.5+L/100			
Repeatability		2um			
Scale Resolution		0.1 um			
Optical System	CCD	2M pixel digital camera			
	Lens	Magnification 1-10x			
	FOV	8.1-1.3mm			
	Distance	82mm			
Machine Dimension (LxWxH)(mm)		1600x780x1700	1750x920x1700	1850x1180x1700	1950x1280x1700
Machine Weight (kg)		320	390	460	560

Optical Measuring Machine (Gantry Type)

Features:

- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- Fully auto close loop control, auto measurement
- Auto zoom lens with co-axial light
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.1um high resolution linear scale
- Laser indicator navigator
- Powerful measuring software
- PC included
- Laser sensor are optional
- Compatible with Renishaw touch probe (optional) and MCR20 rack (optional). Provide powerful 2D and 3D measuring function.



Code		MGV6050	MGV8060	MGV1080	MGV1210
X/Y/Z-axis Travel (mm)		600x500x200	800x600x200	1000x800x200	1200x1000x200
Accuracy (um)		2+L/200			
Repeatability		2um			
Scale Resolution		0.1 um			
Optical System	CCD	2M pixel digital camera			
	Lens	Auto zoom lens 1-10x with co-axial light			
	FOV	8.1-1.3mm			
	Distance	82mm			
Machine Dimension (LxWxH)(mm)		1700x1180x1750	1700x1280x1750	1900x1480x1750	2100x1680x1750
Machine Weight (kg)		1500	1800	2900	3200

Fixture for Measuring Machine

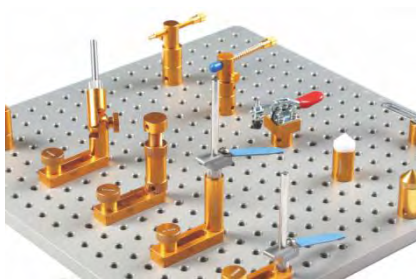
The measurement machine application is always coming with varies of different shapes or materials. Some are even without any effective plate to be correctly located on the work stage. Developing specific fixtures for each component should be with low efficiency and high cost. This new develop fixture kits should be able to help customers save time and cost, also achieve fast and reliable fixturing during measuring process, improve the throughput, reproducibility and accuracy of the inspection process with quick and repeatable fixturing setups.



Fixture kits

These kits include supporting, pressing, and holding components, which allow the user to manage the fixturing easily and no special tools are required. Regardless of the shapes or materials, user can easily find the fixturing solution during measuring process.

All components are made by precision manufacturing process and with anodize coating. Each part is with laser marking coding. So all the combination of the components can be repeatable for the subsequent inspections, which helps to eliminate the variation of different parts or operators, and increasing the measuring accuracy and repeatability.



Base Plate

Special designed base plate for fixture kit. An L shape magnetic fast mounting corner is available. User only needs to place and measure, which largely increase the measuring efficiency.

● Fixture Kit for CMM

60pcs set	FKC-060
108pcs set	FKC-108

Base plate for CMM

Made by Aluminum, with M8 thread hole

300*300mm	FBC-3030
400*300mm	FBC-4030
400*400mm	FBC-4040
500*500mm	FBC-5050
600*600mm	FBC-6060



● Fixture Kit for VMM

112pcs set	FKV-112
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Base plate for VMM

Made by acrylic material with high transmittance and flatness, which can ensure the straight light path from the contour light, keeping the original measuring accuracy of the machine

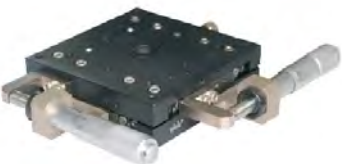
Metal M4 screw inserts are mounted in the base plate, the components can be firmly fixed and highly increase the life cycle of the base plate.

300*200mm	FBV-3020
400*300mm	FBV-4030
600*500mm	FBV-6050



Multi-Axis Stages

Stage with micrometer head capable of 0.01mm resolution adjustment. Aluminum alloy material with black anodizing or Nickel plating surface treatment.

	Manual X-Axis Stages - Linear Ball Guide
	Manual X-Axis Stages - Cross Roller Guide Lightweight and High Precision Cross Roller Stages made of aluminum alloy, black anodizing surface treatment.
	Manual XY-Axis Stages - Cross Roller Guide Stage with a micrometer head capable of 0.01mm resolution adjustment, black anodizing surface treatment.
	Manual XY-Axis Stages - Cross Roller Guide, Low Profile Thin Stage with a micrometer head capable of 0.01mm resolution adjustments, black anodizing surface treatment.
	Manual Z-Axis Stages - Linear Ball Guide Stage with a micrometer head capable of 0.01mm resolution adjustments, Nickel plating surface treatment.
	Manual Z-Axis Stages - Cross Roller Guide Stage with a micrometer head capable of 0.01mm resolution adjustments, black anodizing surface treatment.

	Manual Horizontal Z-Axis Stages - Cross Roller Guide Stages suitable for highly accurate and fine adjustment of horizontal surface of Z-axis, black anodizing surface treatment.
	Manual XYZ-Axis Stages - Linear Ball Guide Stage with a micrometer head capable of 0.01mm resolution adjustments. Nickel plating surface treatment
	Manual XYZ-Axis Stages - Cross Roller Guide Stage with a micrometer head capable of 0.01mm resolution adjustments, black anodizing surface treatment.
	Manual Rotary Stages - Fitted Joint, Micrometer Head Rotating stage that allows feeding by coarse and fine movement. Coarse 360° rotation is possible by gripping the table. By clamping both the coarse and fine movements, it can be fixed at an arbitrary position.· Can be widely used for applications requiring the precise positioning of cameras, sensors, and other items.
	Manual Rotary Stages - Cross Roller Bearing, Through Hole There is a through hole in the center of the stage allowing passages of laser, wiring and etc., black anodizing surface treatment.
	Manual Multi-Axis Stages - High Accuracy, Cross Roller Guide, Aluminum Alloy Combined Stages made of lightweight aluminum alloy. A stage unit that enables a variety of movements by combining manual stages. Available in combination according to size. Can reduce the stage selection and assembly labor-hours for each axis



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