



2025 ver. C05

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!





DATA TRANSMISSION	01
CALIPER	04
MICROMETER	12
3-POINT MICROMETER	18
DEPTH MICROMETER	26
BORE GAUGES	27
CALIPER GAUGE	29
INDICATORS	33
TEST INDICATOR	43
RADIUS GAUGE	47
HEIGHT GAUGE	50
STANDARD GAUGE	53
INDICATOR STAND	67
LEVEL & ANGLE	72
CONCENTRICITY GAUGE	75
HARDNESS TESTER	76
SURF TESTER	78
COATING THICKNESS TESTER	84
OPTICAL MACHINE	85
ACCESSORIES	92

Data Transfer System

Hub

- With RS232 data port, can 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
Output

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		DCB-06 USB
RS232	USB	Hub	PC		DCB-05 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

Data
Output

Cable

Features:

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

DCB-01 fit for 11002 / 31211 / 31221 series digital caliper and indicator

DCB-02 fit for 21211 / 21221 series micrometer



DCB-01



DCB-02

Wireless Device

Features:

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

1 receiver can connect with up to 8 transmitters

DWB-01 fit for 11002 / 31211 / 31221 series digital calipers and indicators

DWB-02 fit for 21221 / 21211 series micrometers

10 meters transfer distance

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



DWB-01



DWB-02

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
- Thumb wheel for fine adjustment
- Packed in plastic box



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	±0.02mm/0.001"	11007-061
0-200mm/0-8"	0.01mm/0.0005"	±0.03mm/0.0015"	11007-081
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.0015"	11007-121

Rechargeable Digital Caliper



Features

- Large screen display
- Stainless steel material
- IP54 protection level, can be used in workshop conditions
- Incremental capacitive measurement system
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission is optional



Range	Resolution	Accuracy	Code No.
0-100mm/0-4"	0.01mm/0.0005"	±0.02mm/0.001"	11101-041
0-150mm/0-6"	0.01mm/0.0005"	±0.02mm/0.001"	11101-061
0-200mm/0-8"	0.01mm/0.0005"	±0.03mm/0.0015"	11101-081
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.0015"	11101-121

Absolute Digital Caliper



Features

- Stainless steel material
- IP65 protection level, can be used in workshop conditions
- Absolute measurement system.
No response speed limit
- Resolution 0.005mm/0.01mm
- Thumb wheel for fine adjustment
- With data output port (DCB-01 / DWB-01)



Range	Resolution	Accuracy	Code No.
0-100mm/0-4"	0.01mm/0.0005"	±0.02mm/0.001"	11002-041
0-150mm/0-6"	0.01mm/0.0005"	±0.02mm/0.001"	11002-061
0-200mm/0-8"	0.01mm/0.0005"	±0.03mm/0.0015"	11002-081
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.0015"	11002-121

IP67 Rechargeable Digital Caliper



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, can work reliably in hard environment
- Auto power on/off
- Fraction display is optional
- Packed in plastic box



Range	Resolution	Accuracy	Code No.
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, can work reliably in hard environment
- Auto power off
- Fraction display is optional
- Built-in wireless transmission (optional)



11301-061



11301-062

Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	±0.02mm/0.001"	11301-061
0-200mm/0-8"	0.01mm/0.0005"	±0.03mm/0.0015"	11301-081
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.0015"	11301-121
0-150mm/0-6"	0.01mm/0.0005"	±0.02mm/0.001"	11301-062
0-200mm/0-8"	0.01mm/0.0005"	±0.03mm/0.0015"	11301-082
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.0015"	11301-122

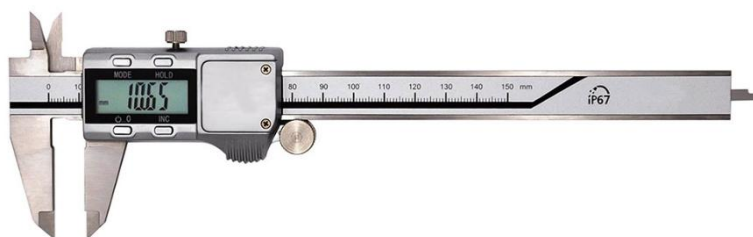
IP67 Metal Housing Digital Caliper

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
- 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, can be used in hard workshop conditions
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission (optional)



Range	Resolution	Accuracy	Code No.
0-150mm/0-6"	0.01mm/0.0005"	±0.02mm/0.001"	11303-061
0-200mm/0-8"	0.01mm/0.0005"	±0.03mm/0.0015"	11303-081
0-300mm/0-12"	0.01mm/0.0005"	±0.03mm/0.0015"	11303-121

Dial Caliper

Features

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

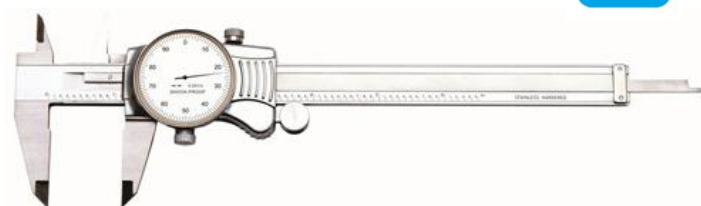


Range	Graduation	Accuracy	Code No.
Metric			
0-150mm	0.02mm	±0.03mm	12012-061
0-200mm	0.02mm	±0.03mm	12012-081
0-300mm	0.02mm	±0.04mm	12012-121
Inch			
0-6"	0.001"	±0.0015"	12021-061
0-8"	0.001"	±0.0015"	12021-081
0-12"	0.001"	±0.002"	12021-121

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 pinions mechanism offers extra smooth operation



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



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



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

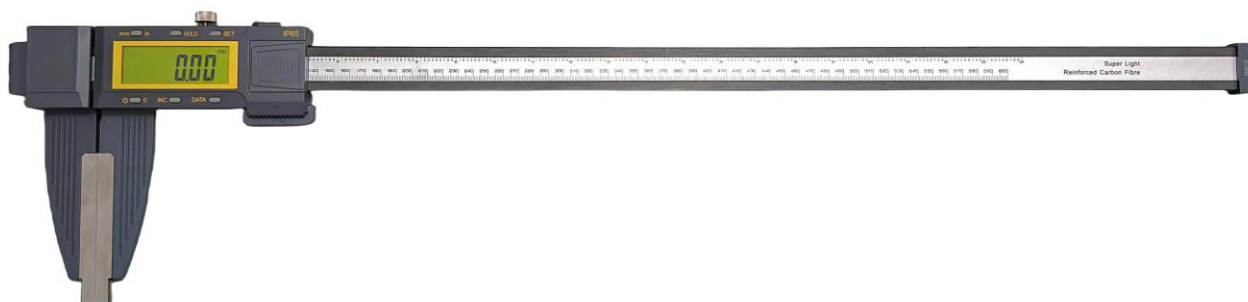


Data
Output

IP65

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

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
- 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"	21215-013	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

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

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



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

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

Digital Outside Micrometer

Features:

- 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

Mechanical Outside Micrometer

Features

- Carbide tipped measuring faces
- Ratchet thimble is optional
- Grey painted steel frame



Metric			Inch			Code No. (Ratchet stop)	
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
- Wooden box for 6pcs set (Aluminum box optional)

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"	23011-012	23021-012



Mechanical Micrometer with Interchangeable Anvils

Features

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



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

2-Button Digital Micrometer Head

IP65

Features:

- IP65 protection level
- Automatic Off function
- Carbide tipped measuring faces
- 12mm mounting stem diameter



Range	Resolution	Accuracy	Metric	Inch
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:

- Carbide tipped measuring faces
- 10mm and 12mm mounting stem dia. optional.



Range	Resolution	Accuracy	Metric	Inch
0-25mm/0-1"	0.001mm/0.00005"	±0.003mm/0.00015"	21015-010H	21025-010H

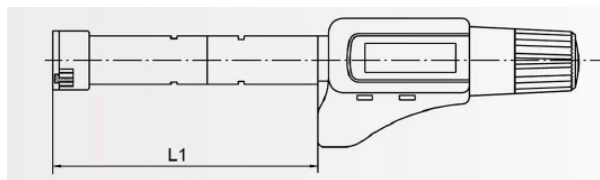
Digital 2 Points Internal Micrometer (2-6mm)

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



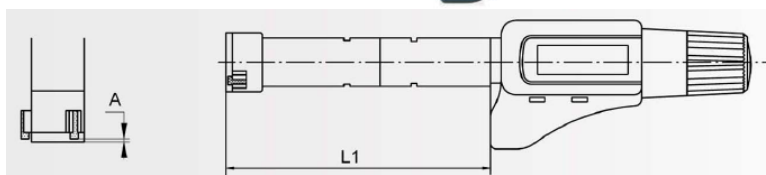
Range	Accuracy	Setting Rings	L1	Code No.
Metric				
2-2.5mm	0.004mm	Ø2.5mm	12.5mm	41111-002
2.5-3mm	0.004mm	Ø2.5mm	12.5mm	41111-003
3-4mm	0.004mm	Ø4mm	22.5mm	41111-004
4-5mm	0.004mm	Ø5mm	22.5mm	41111-005
5-6mm	0.004mm	Ø6mm	22.5mm	41111-006
Inch				
0.08-0.1"	0.00016"	Ø 0.1"	0.5"	41121-210
0.1-0.12"	0.00016"	Ø 0.1"	0.5"	41121-212
0.12-0.16"	0.00016"	Ø 0.16"	0.9"	41121-216
0.16-0.2"	0.00016"	Ø 0.16"	0.9"	41121-220
0.2-0.24"	0.00016"	Ø 0.24"	0.9"	41121-224
0.24-0.28"	0.00016"	Ø 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

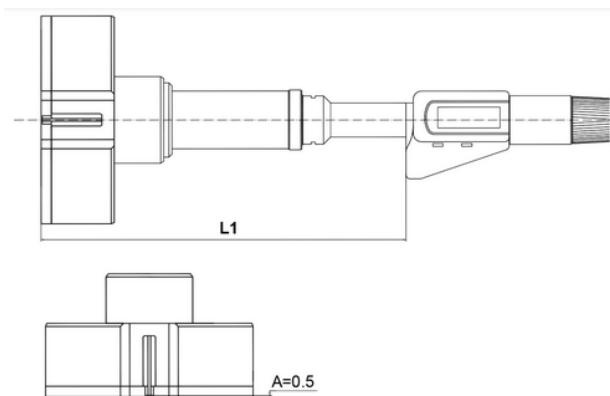


Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.
Metric						
6-8mm	0.004mm	Ø6mm	54.5mm	1.5mm	100mm	41111-008
8-10mm	0.004mm	Ø8mm	54.5mm	1.5mm	100mm	41111-010
10-12mm	0.004mm	Ø10mm	54.5mm	1.5mm	100mm	41111-012
12-16mm	0.004mm	Ø16mm	80mm	0.5mm	150mm	41111-016
16-20mm	0.004mm	Ø16mm	80mm	0.5mm	150mm	41111-020
20-25mm	0.004mm	Ø25mm	90mm	0.5mm	150mm	41111-025
25-30mm	0.004mm	Ø25mm	90mm	0.5mm	150mm	41111-030
30-40mm	0.004mm	Ø40mm	97mm	0.5mm	150mm	41111-040
40-50mm	0.005mm	Ø40mm	97mm	0.5mm	150mm	41111-050
50-63mm	0.005mm	Ø62mm	114mm	0.5mm	150mm	41111-063
62-75mm	0.005mm	Ø62mm	114mm	0.5mm	150mm	41111-075
75-88mm	0.005mm	Ø87mm	114mm	0.5mm	150mm	41111-088
87-100mm	0.005mm	Ø87mm	114mm	0.5mm	150mm	41111-100
Inch						
0.275-0.35"	0.00016"	Ø 0.275"	2.18"	0.06"	4"	41121-003
0.35-0.425"	0.00016"	Ø 0.35"	2.18"	0.06"	4"	41121-004
0.425-0.5"	0.00016"	Ø 0.5"	2.18"	0.06"	4"	41121-005
0.5-0.65"	0.00016"	Ø 0.65"	3.2"	0.02"	6"	41121-006
0.65-0.8"	0.00016"	Ø 0.65"	3.2"	0.02"	6"	41121-008
0.8-1"	0.00016"	Ø 1"	3.6"	0.02"	6"	41121-010
1-1.2"	0.00016"	Ø 1"	3.6"	0.02"	6"	41121-012
1.2-1.6"	0.00016"	Ø 1.6"	3.88"	0.02"	6"	41121-016
1.6-2"	0.0002"	Ø 1.6"	3.88"	0.02"	6"	41121-020
2-2.5"	0.0002"	Ø 2.5"	4.56"	0.02"	6"	41121-025
2.5-3"	0.0002"	Ø 2.5"	4.56"	0.02"	6"	41121-030
3-3.5"	0.0002"	Ø 3.5"	4.56"	0.02"	6"	41121-035
3.5-4"	0.0002"	Ø 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	Ø 112.5mm	150mm	150mm	41111-125
125-150mm	0.005mm	Ø 137.5mm	150mm	150mm	41111-150
150-175mm	0.005mm	Ø 162.5mm	150mm	150mm	41111-175
175-200mm	0.005mm	Ø 187.5mm	150mm	150mm	41111-200
200-225mm	0.007mm	Ø 212.5mm	150mm	150mm	41111-225
225-250mm	0.007mm	Ø 237.5mm	150mm	150mm	41111-250
250-275mm	0.007mm	Ø 262.5mm	150mm	150mm	41111-275
275-300mm	0.007mm	Ø 287.5mm	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

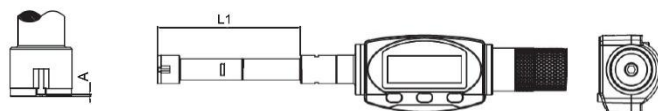
IP65 Digital 3 Points Internal Micrometer (6-100mm)



IP65

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)
- Built-in bluetooth for data transmission is optional
- Setting ring for origin point setting is optional
- Extension rod is optional



Range	Accuracy	Setting Ring (optional)	L1	A	Extension Rod (optional)	Code No.
6-8mm	0.004mm	Ø8mm	55mm	1.0mm	100mm	41112-008
8-10mm	0.004mm	Ø8mm	55mm	1.5mm	100mm	41112-010
10-12mm	0.004mm	Ø12mm	55mm	1.5mm	100mm	41112-012
12-16mm	0.004mm	Ø16mm	80mm	0.5mm	150mm	41112-016
16-20mm	0.004mm	Ø16mm	80mm	0.5mm	150mm	41112-020
20-25mm	0.004mm	Ø25mm	90mm	0.5mm	150mm	41112-025
25-30mm	0.004mm	Ø25mm	90mm	0.5mm	150mm	41112-030
30-40mm	0.004mm	Ø40mm	105mm	0.5mm	150mm	41112-040
40-50mm	0.004mm	Ø40mm	105mm	0.5mm	150mm	41112-050
50-63mm	0.005mm	Ø62mm	127mm	0.5mm	150mm	41112-063
62-75mm	0.005mm	Ø62mm	127mm	0.5mm	150mm	41112-075
75-88mm	0.005mm	Ø87mm	127mm	0.5mm	150mm	41112-088
87-100mm	0.005mm	Ø87mm	127mm	0.5mm	150mm	41112-100
100-125mm	0.005mm	Ø125mm	156mm	1.0mm	150mm	41112-125
125-150mm	0.005mm	Ø125mm	156mm	1.0mm	150mm	41112-150
150-175mm	0.006mm	Ø175mm	156mm	1.0mm	150mm	41112-175
175-200mm	0.006mm	Ø175mm	156mm	1.0mm	150mm	41112-200
200-225mm	0.007mm	Ø225mm	156mm	1.0mm	150mm	41112-225
225-250mm	0.007mm	Ø225mm	156mm	1.0mm	150mm	41112-250
250-275mm	0.008mm	Ø275mm	156mm	1.0mm	150mm	41112-275
275-300mm	0.008mm	Ø275mm	156mm	1.0mm	150mm	41112-300

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	Ø 2.5mm	12.5mm	43011-002
2.5-3mm	0.001mm	0.004mm	Ø 2.5mm	12.5mm	43011-003
3-4mm	0.001mm	0.004mm	Ø 4mm	22.5mm	43011-004
4-5mm	0.001mm	0.004mm	Ø 5mm	22.5mm	43011-005
5-6mm	0.001mm	0.004mm	Ø 6mm	22.5mm	43011-006
Inch					
0.08-0.1"	0.0001"	0.00016"	Ø 0.1"	0.5"	43021-210
0.1-0.12"	0.0001"	0.00016"	Ø 0.1"	0.5"	43021-212
0.12-0.16"	0.0001"	0.00016"	Ø 0.16"	0.9"	43021-216
0.16-0.2"	0.0001"	0.00016"	Ø 0.16"	0.9"	43021-220
0.2-0.24"	0.0001"	0.00016"	Ø 0.24"	0.9"	43021-224
0.24-0.28"	0.0001"	0.00016"	Ø 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	Ø 6mm	54.5mm	1.5mm	100mm	43011-008
8-10mm	0.004mm	Ø 8mm	54.5mm	1.5mm	100mm	43011-010
10-12mm	0.004mm	Ø 10mm	54.5mm	1.5mm	100mm	43011-012
12-16mm	0.004mm	Ø 16mm	80mm	0.5mm	150mm	43011-016
16-20mm	0.004mm	Ø 16mm	80mm	0.5mm	150mm	43011-020
20-25mm	0.004mm	Ø 25mm	90mm	0.5mm	150mm	43011-025
25-30mm	0.004mm	Ø 25mm	90mm	0.5mm	150mm	43011-030
30-40mm	0.004mm	Ø 40mm	97mm	0.5mm	150mm	43011-040
40-50mm	0.005mm	Ø 40mm	97mm	0.5mm	150mm	43011-050
50-63mm	0.005mm	Ø 62mm	114mm	0.5mm	150mm	43011-063
62-75mm	0.005mm	Ø 62mm	114mm	0.5mm	150mm	43011-075
75-88mm	0.005mm	Ø 87mm	114mm	0.5mm	150mm	43011-088
87-100mm	0.005mm	Ø 87mm	114mm	0.5mm	150mm	43011-100
Inch						
0.275-0.35"	0.00016"	Ø 0.275"	2.18"	0.06"	4"	43021-003
0.35-0.425"	0.00016"	Ø 0.35"	2.18"	0.06"	4"	43021-004
0.425-0.5"	0.00016"	Ø 0.5"	2.18"	0.06"	4"	43021-005
0.5-0.65"	0.00016"	Ø 0.65"	3.2"	0.02"	6"	43021-006
0.65-0.8"	0.00016"	Ø 0.65"	3.2"	0.02"	6"	43021-008
0.8-1"	0.00016"	Ø 1"	3.6"	0.02"	6"	43021-010
1-1.2"	0.00016"	Ø 1"	3.6"	0.02"	6"	43021-012
1.2-1.6"	0.00016"	Ø 1.6"	3.88"	0.02"	6"	43021-016
1.6-2"	0.0002"	Ø 1.6"	3.88"	0.02"	6"	43021-020
2-2.5"	0.0002"	Ø 2.5"	4.56"	0.02"	6"	43021-025
2.5-3"	0.0002"	Ø 2.5"	4.56"	0.02"	6"	43021-030
3-3.5"	0.0002"	Ø 3.5"	4.56"	0.02"	6"	43021-035
3.5-4"	0.0002"	Ø 3.5"	4.56"	0.02"	6"	43021-040

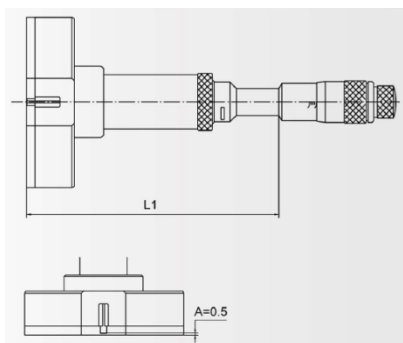
Mechanical 3 Points Internal Micrometer (100-300mm)

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
- Packed in Aluminum box



Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.
Metric					
100-125mm	0.005mm	Ø 112.5mm	145mm	150mm	43011-125
125-150mm	0.005mm	Ø 137.5mm	145mm	150mm	43011-150
150-175mm	0.005mm	Ø 162.5mm	145mm	150mm	43011-175
175-200mm	0.005mm	Ø 187.5mm	145mm	150mm	43011-200
200-225mm	0.007mm	Ø 212.5mm	145mm	150mm	43011-225
225-250mm	0.007mm	Ø 237.5mm	145mm	150mm	43011-250
250-275mm	0.007mm	Ø 262.5mm	145mm	150mm	43011-275
275-300mm	0.007mm	Ø 287.5mm	145mm	150mm	43011-300
Inch					
4-5"	0.0002"	Ø 4.5"	5.8"	6"	43021-050
5-6"	0.0002"	Ø 5.5"	5.8"	6"	43021-060
6-7"	0.0002"	Ø 6.5"	5.8"	6"	43021-070
7-8"	0.0002"	Ø 7.5"	5.8"	6"	43021-080
8-9"	0.00028"	Ø 8.5"	5.8"	6"	43021-090
9-10"	0.00028"	Ø 9.5"	5.8"	6"	43021-100
10-11"	0.00028"	Ø 10.5"	5.8"	6"	43021-110
11-12"	0.00028"	Ø 11.5"	5.8"	6"	43021-120



Mechanical Depth Micrometer

Features:

- Run through interchangeable rods, provide wide measuring range.
- Resolution 0.01mm (Metric) / 0.001" (Inch)
- Micrometers doesn't 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 Bore Gauge

Features:

- Movable probe pin with carbide ball
- Steel-harden-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-hardened-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

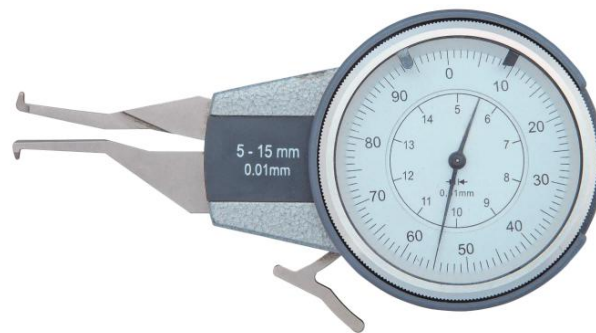


Measuring Range	Graduation	Accuracy	Dial Travel	Probe Depth	Code No.
18-35mm	0.01mm	±0.015mm	3 mm (AGD2)	150mm	42011-018
35-50mm	0.01mm	±0.015mm	3 mm (AGD2)	150mm	42011-035
50-160mm	0.01mm	±0.020mm	3 mm (AGD2)	150mm	42011-050
160-250mm	0.01mm	±0.020mm	3 mm (AGD2)	250mm	42011-160
250-450mm	0.01mm	±0.020mm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

Inside 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 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 Absolute Digital Indicator



Absolute

Data Output

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 optional)
- 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
- Protection level IP54
- 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 - 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 – 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/0-0.2"	0.001mm/0.00005"	0.004mm	31110-005	31120-005
0-5mm/0-0.2"	0.01mm /0.0005"	0.02mm	31110-001	31120-001



IP67 Micrometer Probe Line Gauge

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
- 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



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
 - Determine the zero position on work pieces
 - Determine the center of bores
 - 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	$\pm 0.04\text{mm}$	$\varnothing 4\text{mm}$	32040-103

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

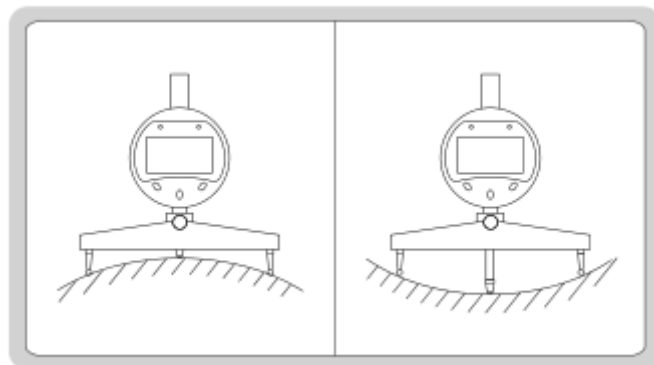
Range	Graduation	Accuracy	Scale	Contact Point Length	Code No. (32mm Dia.)	Code No. (40mm Dia.)
Horizontal Type						
0-0.06"	0.0005"	±0.0012"	0-15-0	19mm	33023-160	33023-260
0-0.06"	0.001"	±0.0012"	0-15-0	19mm	33023-161	33023-261
Vertical Type						
0-0.06"	0.0005"	±0.0012"	0-15-0	16mm	33024-160	33024-260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

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

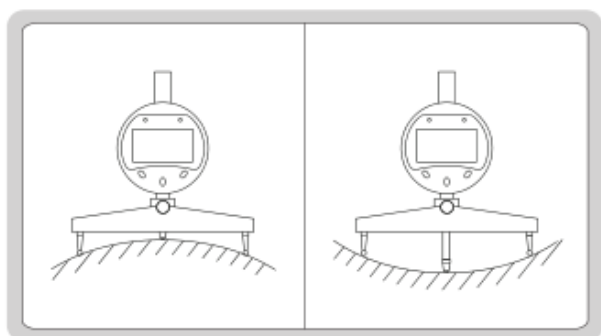
Jaw	Measuring range (External)	Measuring range (Internal)
C=10	R 5–13 mm	R 6.5–15 mm
C=20	R 11–30 mm	R 14–30 mm
C=30	R 22–100 mm	R 27–100 mm
C=60	R 94–260 mm	R 94–260 mm
C=100	R 255–700 mm	R 255–700 mm

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

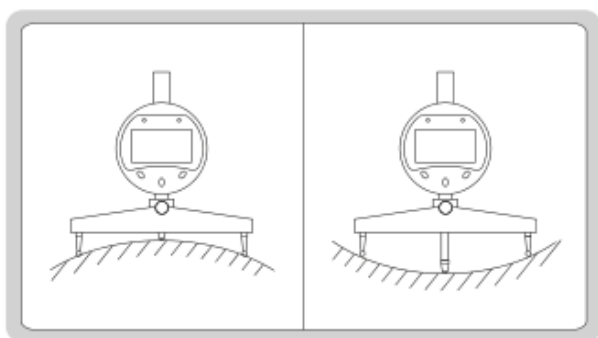
Jaw	Measuring range (External)	Measuring range (Internal)
C=200	R 450–2500 mm	R 450–2500 mm

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"	65-11250mm	3	< 1%	79030-300
0-50mm	0.01mm/0.0005"	65-20000mm	4	< 1%	79030-400

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



IP65 Water-Proof Digital Height Gauge

Features

- Inductive Measurement system.
- IP65 protection level
- Large LCD display; Display hold function
- 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 Column Digital Height Gauge



Features

- Large LCD display; Display hold function
- With hand wheel for easy use
- 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
- Resolution can be converted between 0.01mm/0.001mm
- Plastic box package



Range	Resolution	Accuracy	Code No.
0-300mm/0-12"	0.01mm/0.0005"	± 0.02mm/0.001"	71203-121
0-600mm/0-24"	0.01mm/0.0005"	± 0.03mm/0.0015"	71203-241

Double Column 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/0.0005"	± 0.02mm/0.001"	71201-121
0-450mm/0-18"	0.01mm/0.0005"	± 0.03mm/0.0015"	71201-181
0-600mm/0-24"	0.01mm/0.0005"	± 0.03mm/0.0015"	71201-241

Double Column Digital Height Gauge

Features

- Large LCD display; Display hold function
- With hand wheel for easy use
- 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

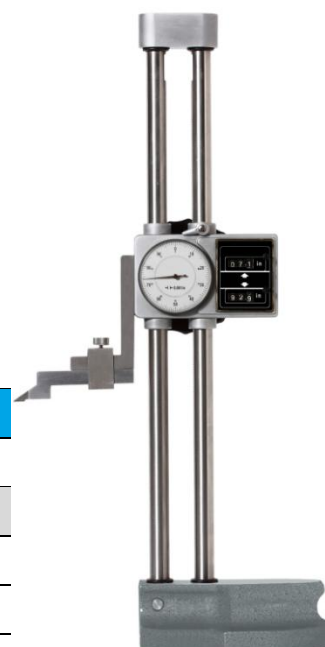


Double Column Dial Height Gauge

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	Metric	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



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

Pieces per Set	Blocks Included in Set	Grade	Item Code (Steel)	Item Code (Carbide)	Item Code (Ceramic)
8	8 Blocks: 25-200mm, 25mm step	0	80008-100	-	-
		1	80008-101	-	-
		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	-	-
		1	80008-201	-	-
		2	80008-202	-	-
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	-

Inch

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

Gauge Blocks (Individual)

Features

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



GRADE 0

Size	Item Code		
	Steel	Carbide	Ceramic
0.5mm	81000-500	81000-500H	81000-500C
1.0mm	81001-000	81001-000H	81001-000C
1.005mm	82001-500	82001-500H	82001-500C
1.01mm	81001-010	81001-010H	81001-010C
1.02mm	81001-020	81001-020H	81001-020C
1.03mm	81001-030	81001-030H	81001-030C
...	0.01mm step		
1.49mm	81001-490	81001-490H	81001-490C
1.50mm	81001-500	81001-500H	81001-500C
1.60mm	81001-600	81001-600H	81001-600C
...	0.1mm step		
1.90mm	81001-900	81001-900H	81001-900C
2.00mm	81002-000	81002-000H	81002-000C
2.50mm	81002-500	81002-500H	81002-500C
3.00mm	81003-000	81003-000H	81003-000C
...	0.5mm step		
24.50mm	81024-500	81024-500H	81024-500C
25.00mm	81025-000	81025-000H	81025-000C
30.00mm	81030-000	81030-000H	81030-000C
40.00mm	81040-000	81040-000H	81040-000C
50.00mm	81050-000	81050-000H	81050-000C
...	10mm step		
100.00mm	81100-000	81100-000H	81100-000C

GRADE 1

Size	Item Code		
	Steel	Carbide	Ceramic
0.5mm	81000-501	81000-501H	81000-501C
1.0mm	81001-001	81001-001H	81001-001C
1.005mm	82001-501	82001-501H	82001-501C
1.01mm	81001-011	81001-011H	81001-011C
1.02mm	81001-021	81001-021H	81001-021C
1.03mm	81001-031	81001-031H	81001-031C
...	0.01mm step		
1.49mm	81001-491	81001-491H	81001-491C
1.50mm	81001-501	81001-501H	81001-501C
1.60mm	81001-601	81001-601H	81001-601C
...	0.1mm step		
1.90mm	81001-901	81001-901H	81001-901C
2.00mm	81002-001	81002-001H	81002-001C
2.50mm	81002-501	81002-501H	81002-501C
3.00mm	81003-001	81003-001H	81003-001C
...	0.5mm step		
24.50mm	81024-501	81024-501H	81024-501C
25.00mm	81025-001	81025-001H	81025-001C
30.00mm	81030-001	81030-001H	81030-001C
40.00mm	81040-001	81040-001H	81040-001C
50.00mm	81050-001	81050-001H	81050-001C
...	10mm step		
100.00mm	81100-001	81100-001H	81100-001C

Pin Gauge Sets

Features

- Mirror polished surface
- 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
- Compliance with standard DIN 2269



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
- Compliance with standard DIN 2269
- Customized diameter sizes are available.



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
19.998mm	30-19998	37-19998	0.997"	35-0997
19.999mm	30-19999	37-19999	0.998"	35-0998
20.000mm	30-20000	37-20000	0.999"	35-0999
...	...	...	1.000"	35-1000

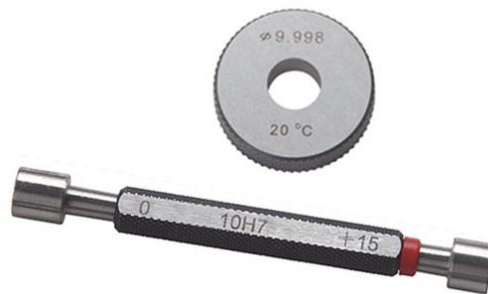
Material: Ceramic

Size	Length
Metric	50mm
0.50mm	30-0050C
0.51mm	30-0051C
0.52mm	30-0052C
0.53mm	30-0053C
...	0.01mm step
19.98mm	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
275mm	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



40-0312T



40-0330T



50-0312T

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



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")

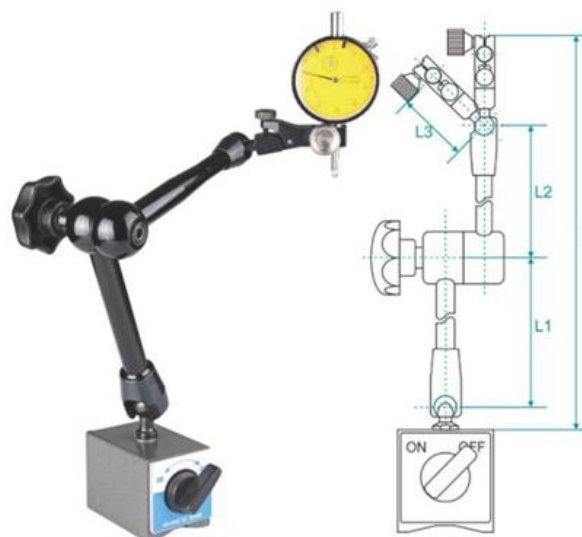


Holding Power	Base	Arm Length	L1	L2	L3	Dial of Clamp Hole	Code No.
30KG	35X30X35	158	56	51	17	6.0/8.0/Dovetail	51001-030
30KG	35X30X35	205	56	51	73		52001-030
80KG	60X50X55	310	110	101	73		52001-080
100KG	73X50X55	385	147	130	76		52001-100
130KG	117X50X55	635	285	225	76		52001-130

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")

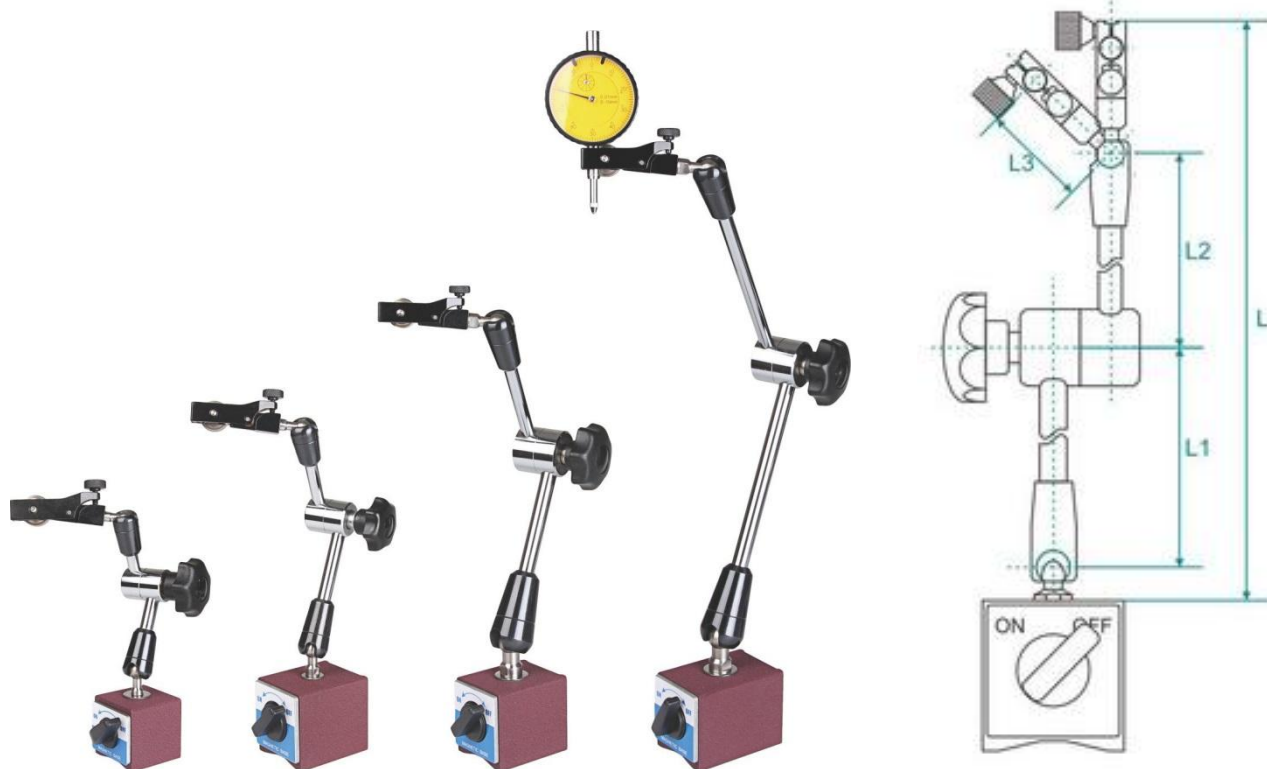


Holding Power	Base	L	L1	L2	L3	Dia. of Clamp Hole	Code No.
50KG	40X40X40	220	62	52	79	6.0/8.0/Dovetail	52007-050
80KG	60X50X55	290	100	82	81	6.0/8.0/Dovetail	52007-080
100KG	73X50X55	355	145	95	81	6.0/8.0/Dovetail	52007-100
100KG	73X50X55	415	175	125	81	6.0/8.0/Dovetail	52007-101

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

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



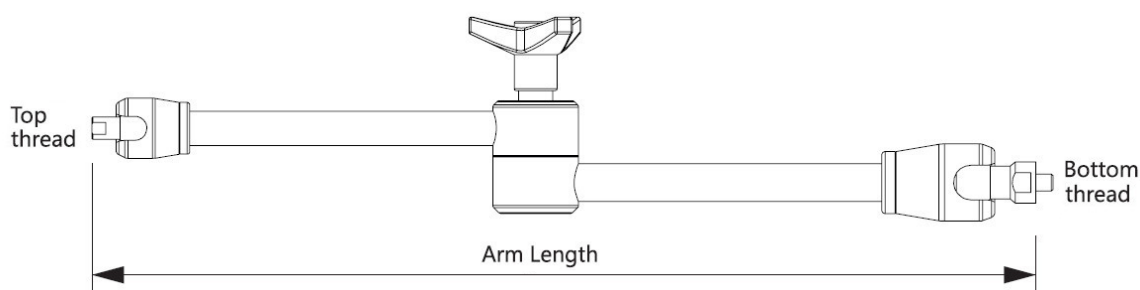
52007 series



52001 series



52004 series

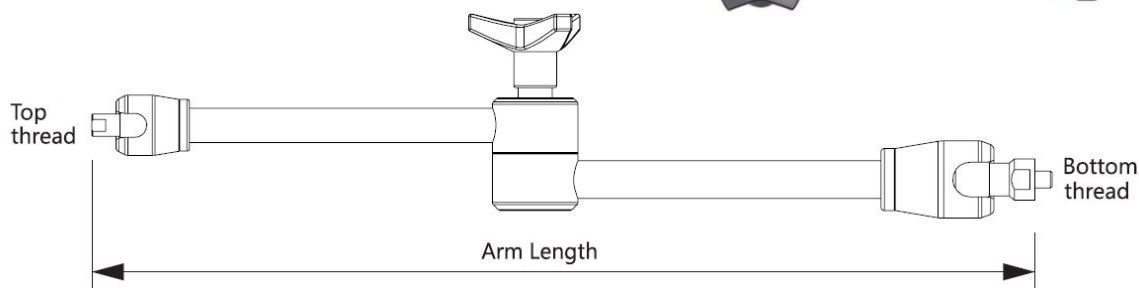


Arm Length	Top thread	Bottom thread (External thread)	Code No.
150	M6 x 1.0 (External thread)	M6 x 1.0	52007-A1
225		M8 x 1.25	52007-A2
285			52007-A3
345			52007-A4
140	M6 x 1.0 (Internal thread)	M5 x 0.8	52001-A1
245		M8 x 1.25	52001-A2
320			52001-A3
570		M10 x 1.25	52001-A4
127	M6 x 1.0 (External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

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
- Protection level: IP65



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

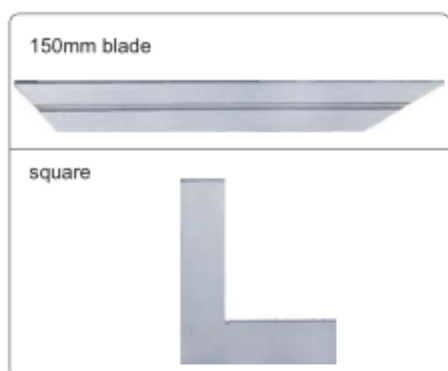
- Measuring range 0 – 360° , choose 0-90°,0-180°,0-360°display
- Display in degree (for example 32.655°) and degree /minute/second(for example 32°39'30")
- Automatic power off
- Supplied with 150mm, 300mm blade and square (to set 90°)
- Made of stainless steel

Specification:

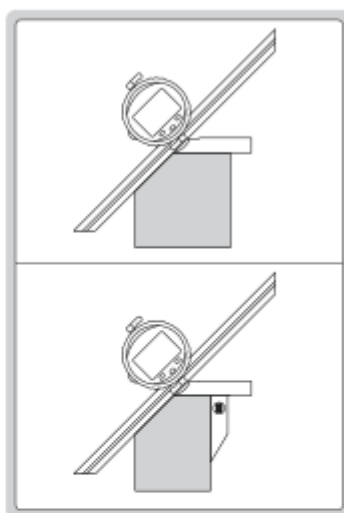
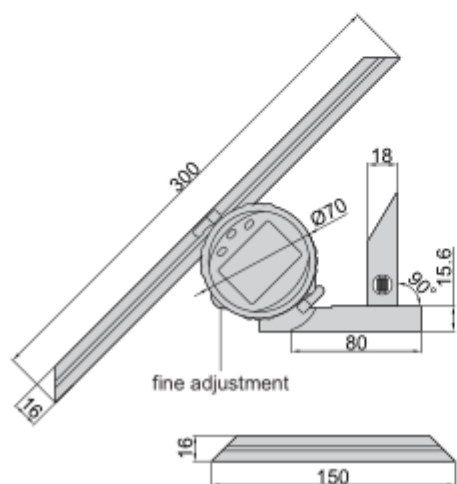
- Resolution: 30" / 0.005°
- Accuracy: $\pm 5'$ / $\pm 0.08^\circ$
- Measuring Range: 360°
- Power: 3V CR2032 Battery



63031-030



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



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

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.



MHT90

Standard Configuration

- 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 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×n n=1~5
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 ≥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 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 μ 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

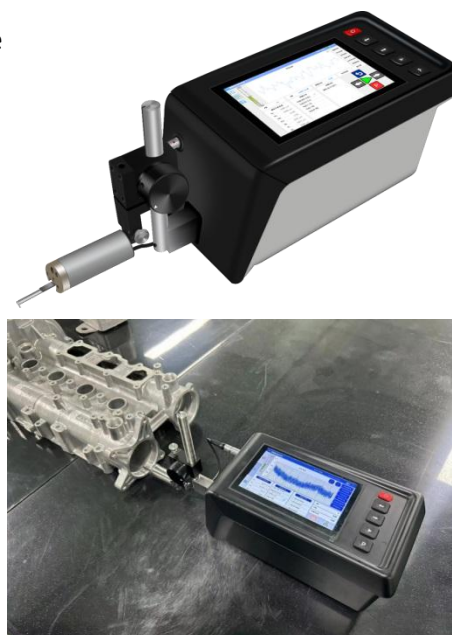
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Roughness Waviness Tester

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
Analysis Algorithm	P a r a m e t e r	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 configuration

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

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

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)	$E_{1\lambda V} = (2.5 + L/100)$				
	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°				

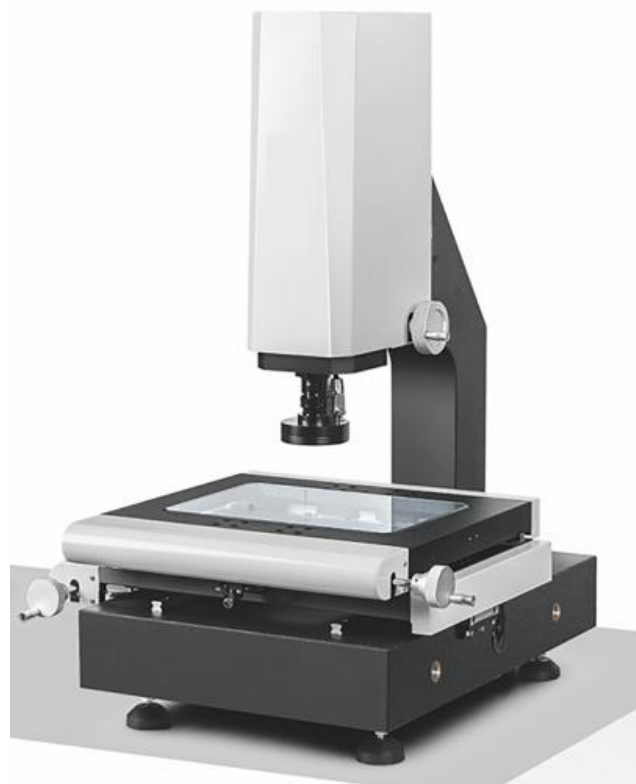
Lens	Magnification *	10× (Optional)	20× (Optional)	50× (Optional)	100× (Optional)
	Field of view (mm)	Φ30	Φ15	Φ6	Φ3
	Working distance (mm)	77.7	44.3	38.4	25.3
	Max. measuring height (mm)	90	90	90	80
Optional Accessories		Printer, edge detector, Measuring software M2D-CPJ, etc.			
Power supply: AC 100-240V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

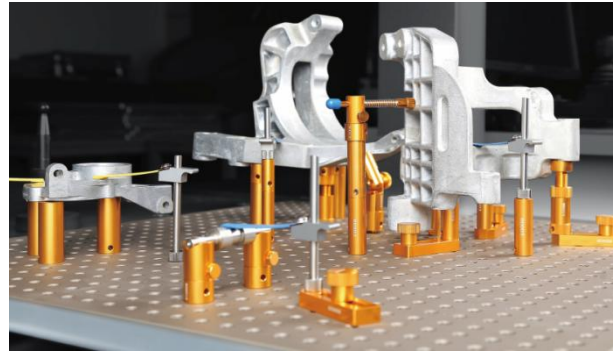
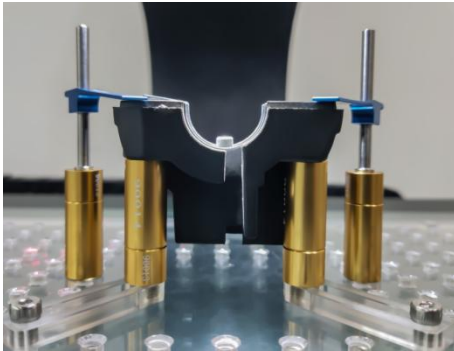
- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- Fully auto close loop control, auto measurement
- Auto zoom lens with co-axial light
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour 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

Accessories for Measuring Machine

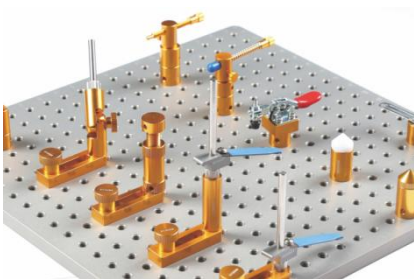
The measurement machine application is always coming with varies of different shapes or materials. Some are even without any effective plate to be correctly located on the work stage. Developing specific fixtures for each component should be with low efficiency and high cost. This new develop fixture 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*300*15mm	FBC-3030
400*300*15mm	FBC-4030
400*400*15mm	FBC-4040
500*500*15mm	FBC-5050
600*600*15mm	FBC-6060



● Fixture Kit for VMM

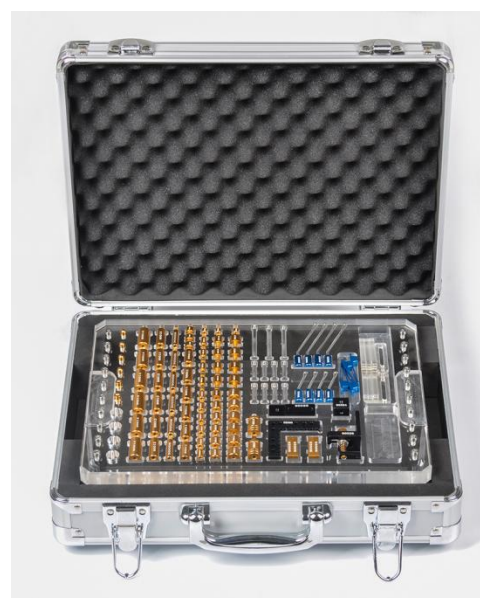
112pcs set	FKV-112
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Base plate for VMM

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

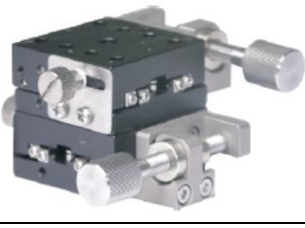
Metal M4 screw inserts are mounted in the base plate, the components can be firmly fixed and highly increase the life cycle of the base plate.

300*200*12mm	FBV-3020
400*300*12mm	FBV-4030
600*500*12mm	FBV-6050



Manual 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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