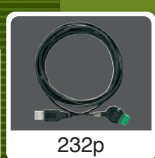




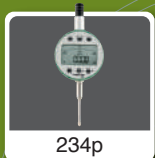
232p



232p



233p



234p



235p



236p



237p



238p



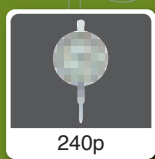
238p



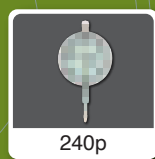
239p



239p



240p



240p



241p



241p



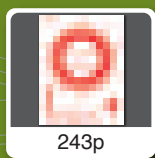
242p



242p



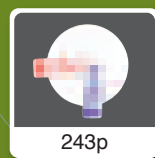
243p



243p



243p



243p



244p



244p



245p

# DIAL GAUGE



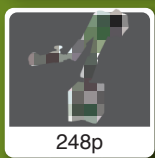
245p



246p



246p



248p



248p



249p



249p



250p



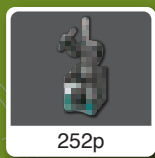
250p



251p



251p



252p



252p



252p



253p



253p



253p



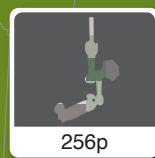
253p



254~255p



256p



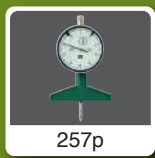
256p



257p



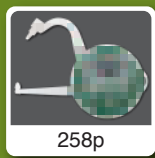
257p



257p



258p



258p



258p



258p



259p



260p



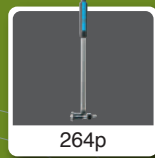
261p



262p



263p



264p



265p



266p



267p



267p



268p



268p



269p



270p

DIAL  
GAUGEDIAL  
INDICATORMAGNETIC  
BASETHICKNESS  
GAUGECALIPER  
GAUGEBORE  
GAUGEOTHER  
DIAL  
GAUGES

HARDNESS

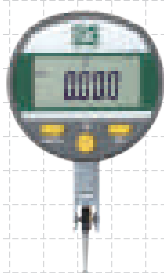
FILM  
THICKNESS



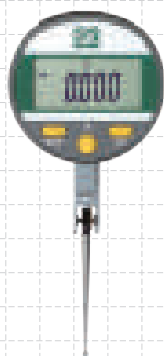
# Dial Gauge Size Lineup

\*Background grid: approx. 10mm

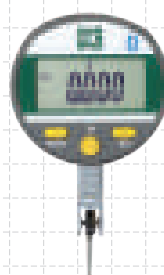
DET-0800S P236



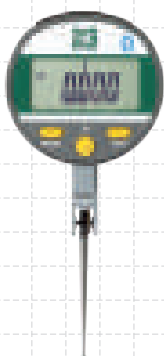
DET-2000S P236

WTI-2030R P244  
WTI-2030W P244WTI-2038R P244  
WTI-2038W P244WTI-8030S P245  
WTI-8030R P245  
WTI-8030W P245WTI-8038S P245  
WTI-8038R P245  
WTI-8038W P245WTI-8038RL P246  
WTI-8038WL P246

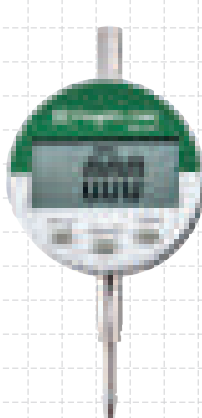
DET-0800SW P237



DET-2000SW P237



DEI-127 P239



DEI-127M P238



DEI-254M P238



DEI-501MW P233

DEI-121MH P233  
DEI-121MW P233

DEI-251MW P233

DEI-122MH P234  
DEI-122MW P234

DEI-252MW P234





WDI-10KD P240



WDI-10 P240



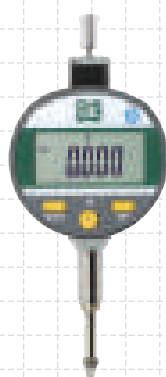
WDI-0558SP P241  
WDI-1058SP P241



WDI-0158SP P241



DMI-1095SW P235



WDI-0342 P242  
WDI-0542 P242



WDI-3058SP  
P242



WDI-5058SP  
P242



WDI-8058SP  
P242



WDI-10078SP  
P242



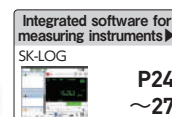


## WIRELESS RECEIVER


  
(Receiver)

For importing measurement data to PC.

Pass/ Fail judgement based on pre-set tolerance, and data recording, become possible with combination use of dedicated software.



### USE

- For receiving measurement data wireless from compatible measuring devices

### FEATURES

- Enables wireless data import from compatible devices for easier data management
- Up to 8 devices can be connected per unit
  - ※ By increasing number of WI-1M, up to 32 devices can be connected (SK-LOG Product version is required for the multiple connection)

### SPECIFICATIONS

- Radio system: ANT + (communication distance within 6m) ● OS: Windows 7, 8, 10, 11
- ※ Our ANT+ system is qualified in Japan, U.S.A (FCC), EU (CE) and South Korea (KCC).

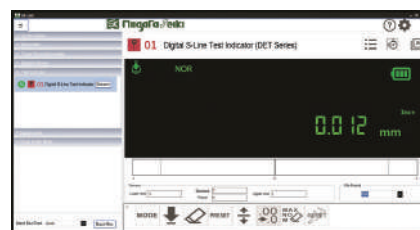
For use in other countries, please contact us.

### PRODUCT INCLUDES

- Wireless receiver ● Dedicated software (SK-LOG Lite version)

#### <Applicable Products>

Order No.	Product and Model No.
152271 ~ 152273	S-LINE DIGITAL VERNIER CALIPER D-***IP67MW
152235 ~ 152238	S-LINE DIGITAL MICROMETER MCD-***IP65MW
152292 ~ 152294	S-LINE DIGITAL INDICATOR DEI-***MW
152296 ~ 152297	※ Cannot be used with DATA TRANSFER CABLE at the same time.



Dedicated software included

Order No.	Model No.	Connector	Wireless Range	Frequency Band	Weight
152278	WI-1M	USB	Max. 6m	2.4GHz	2g

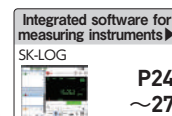


## S-LINE DATA TRANSFER CABLE


  
(Cable)

For importing measurement data to PC.

Pass/ Fail judgement based on pre-set tolerance, and data recording, become possible with combination use of dedicated software.



### USE

- For importing measurement data from compatible measuring devices

### FEATURES

- USB cable for transferring measurement data, compatible with S-line series products
- There is also a data transmission button on the device connection terminal of the cable (DTC-M1)

### PRODUCT INCLUDES

- Cable ● Dedicated software (SK-LOG Lite version)

#### <Applicable Products>

- Connectable to DTC-1

Order No.	Product and Model No.
151227 ~ 151229	S-LINE DIGITAL MICROMETER MCD-***IP67S2
151234	S-LINE DIGITAL BLADE MICROMETER MCD-25IP67BS2

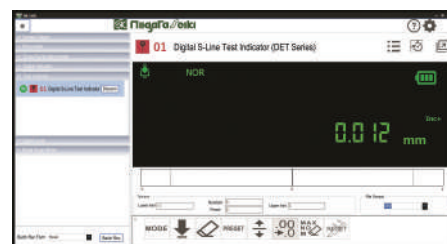
- Connectable to DTC-2, DTC-2-DS

Order No.	Product and Model No.
151749	S-LINE DIGITAL MINI INDICATOR DMI-1095SW
151917 ~ 151918	S-LINE DIGITAL TEST INDICATOR DET-***S
151746 ~ 151747	S-LINE DIGITAL TEST INDICATOR DET-***SW

- Connectable to DTC-M1

Order No.	Product and Model No.
152274 ~ 152276	S-LINE DIGITAL VERNIER CALIPER D-***IP67M
152282 ~ 152283	S-LINE DIGITAL HEIGHT GAUGE DHG-***M
152291 ~ 152295	S-LINE DIGITAL INDICATOR DEI-***MH
152292 ~ 152294	S-LINE DIGITAL INDICATOR DEI-***MW
152296 ~ 152297	※ Cannot be used with WIRELESS RECEIVER at the same time.

DTC-1



Dedicated software included



Downloading Android App [SLOG]



Order No.	Model No.	Connector	Length	OS
152033	DTC-1	USB	3m <sup>※1</sup>	Windows 7, 8, 10, 11
152034	DTC-2			Android <sup>※2</sup>
152060	DTC-2-DS	D-SUB9	3m <sup>※1</sup>	Windows 7, 8, 10, 11
152279	DTC-M1	USB	2m	Windows 7, 8, 10, 11

※1: D-SUB9 pin type and length change of the cable are possible (USB type: Max. 7m, D-SUB9 pin type: Max. 10m). Please contact us.  
 ※2: Models equipped with a USB host function (Please prepare a USB host cable separately when using an Android device). The Android version software is SLOG.



Niigataseiki x Mahr collaborated high performance digital indicator.  
With a large LCD display for easy reading of measurement values.



DEI-121MH  
(Minimum reading : 0.0001mm)

DEI-121MW  
(Built-in wireless type)



DEI-251MW  
(Built-in wireless type)



DEI-501MW  
(Built-in wireless type)



## USE

- For measuring displacement such as unevenness of flat surface, OK/ NG for mounting of workpiece, runout of shaft, and squareness

## MATERIAL

- Stem & spindle: Stainless steel
- Probe: Steel

## FEATURES

- Reference function<sup>※1</sup> eliminates the need to set 0 every time
- ※1: Retaining zero position setting when the power turned off
- Combination use with a dedicated cable (DTC series) enables wired data transmission
- Combination use with a dedicated receiver (WI-1M) enables wireless data transmission (Except for DEI-121MH)
- With a large LCD display (11mm height of character) for easy reading of measurement values
- Display unit can be rotated through 270°
- Tolerance mode
- Measuring direction (+/-) switching function
- Preset function
- Auto power off function (can be set in 0 to 999 min)

## SPECIFICATIONS

- Radio system: ANT+ (Communication distance within 6m)<sup>※2</sup> (Except for DEI-121MH)
- ※2: Our ANT+ system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU) and KCC (South Korea). Please contact us for use in other countries.

## POWER

- One CR2450 (lithium) battery included for testing

## ACCESSORIES

- Spindle speed adjusting screw (DEI-501MW only)

Integrated software for measuring instruments ▶  
SK-LOG P24 ~27

Wireless transmission of measurement data To PC ▶  
Wireless Receiver P232

Importing measurement data to PC ▶  
Data Transfer Cable P232

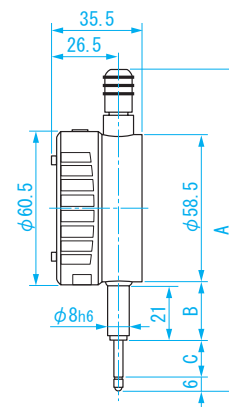
Reference standard for comparative measurement ▶  
Block Gauge P32 ~40

Holding measuring instruments ▶  
Magnetic Base P247 ~255

Precision measuring instrument holder ▶  
Comparator Stand P280 ~281

Rust prevention ▶  
Zerust Film for Steel P370

## ● DIMENSIONS



Units: mm

Model No.	A	B	C
DEI-121MH	126.3	23	13.5
DEI-121MW			
DEI-251MW	153.4	26.8	26.5
DEI-501MW	267.3	40	52

※ 3: Quantization Error (± 1 digit) not included

Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Minimum Reading Display (mm)	Error of indication over a range of Measuring range <sup>※3</sup> (μm)	Hysteresis Error (μm)	Repeatability (μm)	Measuring Force (N)	Connection Unit for Data Transmission	Weight (including flat type back)
152291	DEI-121MH	12.5	0.0001	0.01/0.005/0.002/0.001/0.0005/0.0001 (switchable)	1.8	0.6	0.5	Less than 1.5	DTC-M1 (wired)	130g
152292	DEI-121MW	12.5	0.0005	0.01/0.005/0.002/0.001/0.0005 (switchable)	4	2	1	Less than 1.5	WI-1M (wireless), DTC-M1 (wired)	130g
152293	DEI-251MW	25								140g
152294	DEI-501MW	50			7	3		Less than 3.0		190g





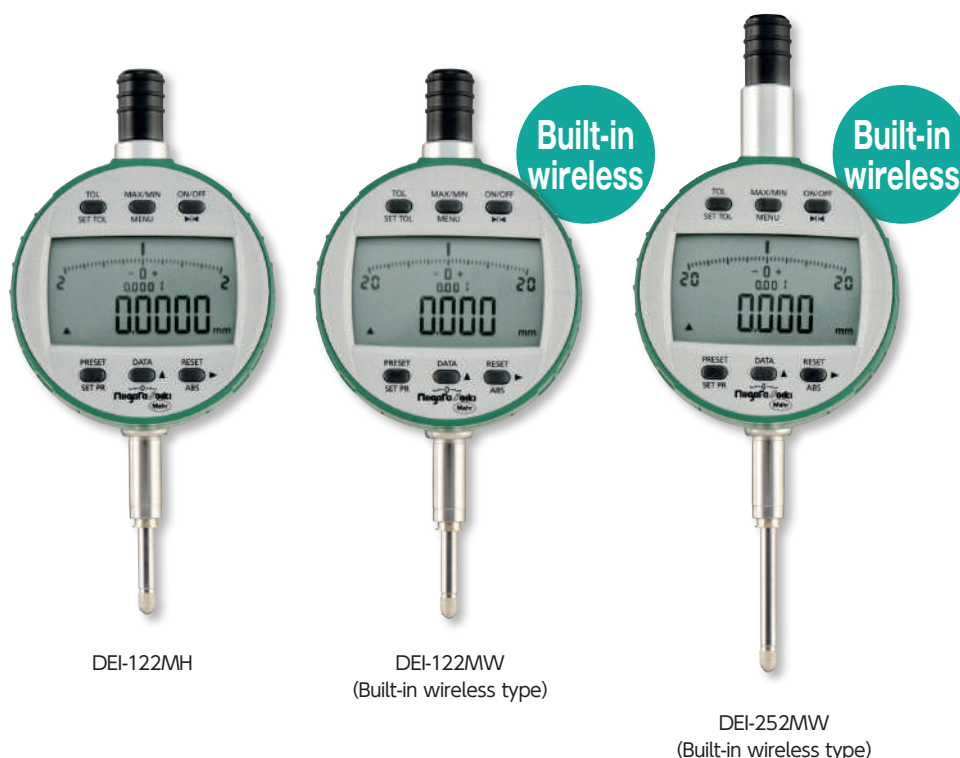
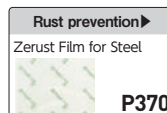
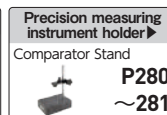
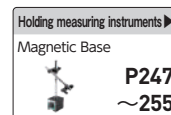
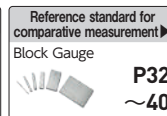
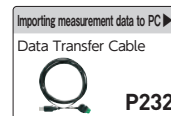
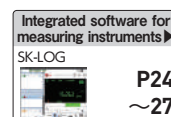
## S-LINE DIGITAL INDICATOR

S line series

Niigataseiki x Mahr collaborated high performance digital indicator.  
Digital/ analog dual-indication display for intuitive reading.



HOW TO MOVE



DEI-122MH

DEI-122MW  
(Built-in wireless type)DEI-252MW  
(Built-in wireless type)

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE

## USE

- For measuring displacement such as unevenness of flat surface, OK/ NG for mounting of workpiece, runout of shaft, and squareness

## MATERIAL

- Stem & spindle: Stainless steel ● Probe: Steel

## FEATURES

- Reference function<sup>\*1</sup> eliminates the need to set 0 every time  
※1: Retaining zero position setting when the power turned off
- Combination use with a dedicated cable (DTC series) enables wired data transmission
- Combination use with a dedicated receiver (WI-1M) enables wireless data transmission (Except for DEI-122MH)
- LCD with analog indication
- Display unit can be rotated through 270°
- Tolerance mode
- MAX/MIN measurement function
- Measuring direction (+/-) switching function
- Preset function
- Auto power off function (can be set in 0 to 999 min)

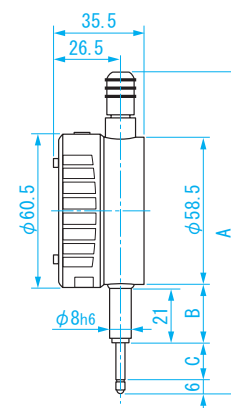
## SPECIFICATIONS

- Radio system: ANT+ (Communication distance within 6m)<sup>\*2</sup> (Except for DEI-122MH)
- ※2: Our ANT+ system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU) and KCC (South Korea). Please contact us for use in other countries.

## POWER

- One CR2450 (lithium) battery included for testing

## ● DIMENSIONS



Units: mm

Model No.	A	B	C
DEI-122MH	126.3	23	13.5
DEI-122MW			
DEI-252MW	153.4	26.8	26.5

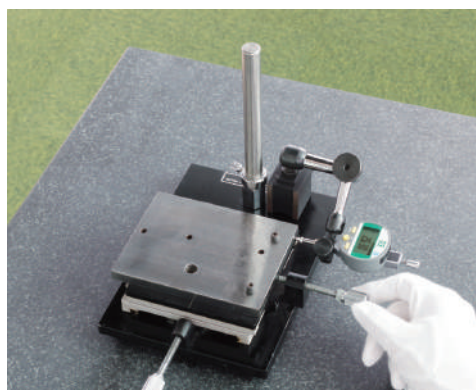
※ 3: Quantization Error (± 1 digit) not included

Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Minimum Reading Display (mm)	Error of indication over a range of Measuring range <sup>1)</sup> (μm)	Hysteresis Error (μm)	Repeatability (μm)	Measuring Force (N)	Connection Unit for Data Transmission	Weight (including flat type back)
152295	DEI-122MH	12.5	0.0001	0.01/0.005/0.002/0.001/0.0005/0.0001(switchable)	1.8	0.6	0.5	Less than 1.5	DTC-M1 (wired)	130g
152296	DEI-122MW	12.5	0.0005	0.01/0.005/0.002/0.001/0.0005(switchable)	4	2	1		WI-1M (wireless),	130g
152297	DEI-252MW	25							DTC-M1 (wired)	140g



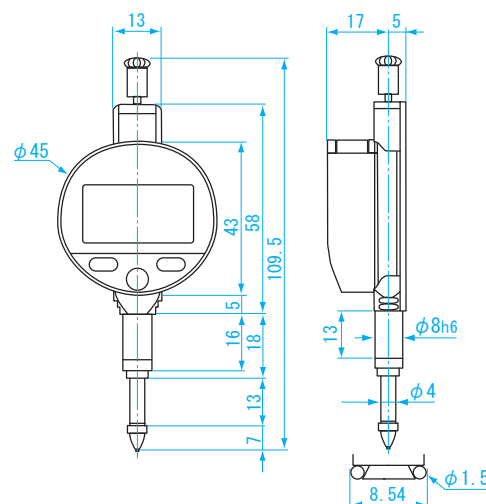
Built-in Bluetooth function.

Compact type with an overall length of 110 mm and a thickness of 22 mm.



Integrated software for measuring instruments SK-LOG P24 ~27	Importing measurement data to PC Data Transfer Cable P232	Reference standard for comparative measurement Block Gauge P32 ~40
Holding measuring instruments Magnetic Base P247 ~255	Precision measuring instrument holder Comparator Stand P280 ~281	Rust prevention Zerust Film for Steel P370

## DIMENSIONS



## Protection category IP54

IP is an protection class indication of electrical equipment and cabinets against solid objects and water, as specified in IEC60529.

Class	IP	Definition	Testing for
1st digit	5	Protected against dust limited ingress	Protected against quantity of dust that could interfere with the normal operation of the product or compromise safety
2nd digit	4	No harmful effects from water splashing from any direction	Spray rotating equipment with 10L/min flow for 10 min. from height of 300~500m

## USE

- Measuring surface flatness, checking tool setup, axial runout, checking squareness

## MATERIAL

- Stem & spindle: Stainless steel
- Probe: Carbide

## FEATURES

- Built-in Bluetooth digital test indicator
- The small type is suitable for use in confined spaces
- The display has both digital and analog display for easy reading
- MIN, MAX, DEL TA (Max. displacement) measurement function
- Measuring direction (+/-) switching function
- Preset function
- Auto display off function (After approx. 10 min)
- Selectable minimum reading display: 0.01mm/0.001mm

## SPECIFICATIONS

- Radio system: Bluetooth 5.0 (Communication distance within 15m)
- ※ Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea) (Excerpts from major regions only)

For use in other countries, please contact us

## POWER

- CR2032 (lithium battery) include for testing

※ Quantization Error (± 1 digit) not included

Order No.	Model No.	Measuring Range (mm)	Minimum Reading Display (mm)	Resolution (mm)	Maximum Error* (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight
<b>NEW!</b> 151749	DMI-1095SW	12.5	0.001	0.01/0.001 (switchable)	4	2	2	Less than 1.5	75g







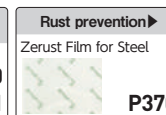
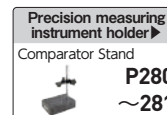
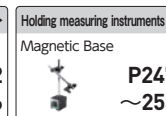
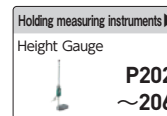
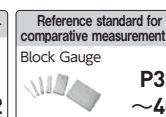
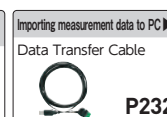
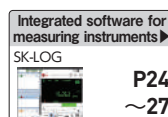
# DIGITAL S-LINE TEST INDICATOR (IP54) **NEW!**

IP54 compliant digital test indicator.

Data transfer is possible with a dedicated cable (sold separately).



HOW TO MOVE



DET-0800S



DET-2000S

## Protection category IP54

IP is an protection class indication of electrical equipment and cabinets against solid objects and water, as specified in IEC60529.

Class	IP	Definition	Testing for
1st digit	5	Protected against dust limited ingress	Protected against quantity of dust that could interfere with the normal operation of the product or compromise safety
2nd digit	4	No harmful effects from water splashing from any direction	Spray rotating equipment with 10L/min flow for 10 min. from height of 300~500mm



LSD display rotates 270°  
Measurement can be taken in suitable posture

## USE

- Lever type digital test indicator
- Measuring surface flatness, checking tool setup, axial runout, checking squareness

## MATERIAL

- Probe: Carbide

## FEATURES

- Built-in Bluetooth digital test indicator
- Display rotates 270°
- The display has both digital and analog display for easy reading
- MIN, MAX, DEL TA (Max. displacement) measurement function
- Measuring direction (+/-) switching function ● Preset function
- Auto display off function (After approx. 10 min)
- Selectable minimum reading display: 0.01mm/0.001mm

## POWER

- CR2032 (lithium battery) include for testing

## ACCESSORIES

- $\phi 8$  dovetail stem

※ We also offer replacement measuring elements.

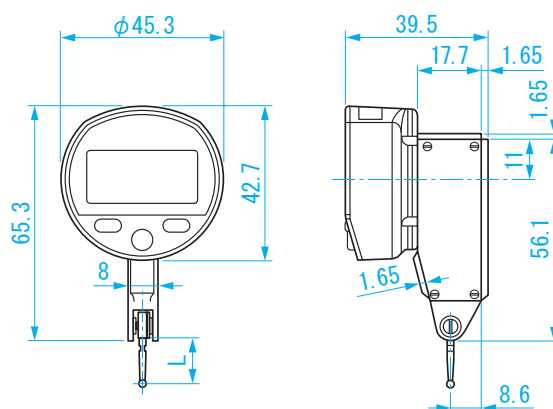
■ Probe for S-line test indicator (For replacement)

● Mounting screw size: M1.4 x P0.3, screw length 2mm

Order No.	Model No.	Probe Length L (mm)	Probe diameter (mm)	Applicable Model No.
151717	DET-P125S1	12.5	$\phi 1$	DET-0800S
151718	DET-234S1-S			DET-0800SW
151719	DET-234S2-S	36.5	$\phi 2$	DET-2000S DET-2000SW

※ Requires calibration with standard when replacing probe

## ● DIMENSIONS



Units: mm

Model No.	L
DET-0800S	12.5
DET-2000S	36.5

※ Quantization Error ( $\pm 1$  digit) not included

Order No.	Model No.	Measuring Range (mm)	Minimum Reading Display (mm)	Resolution (mm)	Maximum Error ( $\mu\text{m}$ )	Backlash Error ( $\mu\text{m}$ )	Repeatability ( $\mu\text{m}$ )	Measuring Force (N)	Weight
<b>NEW!</b> 151917	DET-0800S	0.8	0.001	0.01/0.001 (switchable)	3	2	1	Less than 0.2	70g
<b>NEW!</b> 151918	DET-2000S	2.0			8	3		Less than 0.1	70g



Digital test indicator with Bluetooth function.  
Capable of wireless measurement data transfer.



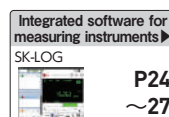
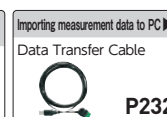
DET-0800SW

Built-in wireless

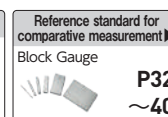
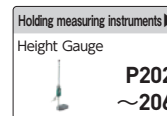
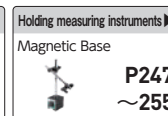
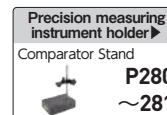


DET-2000SW

Built-in wireless


P24  
~27


P232


P32  
~40

P202  
~206

P247  
~255

P280  
~281


P370



LCD display rotates 270°  
Measurement can be taken  
in suitable posture

## Protection category IP54

IP is an protection class indication of electrical equipment and cabinets against solid objects and water, as specified in IEC60529.

Class	IP	Definition	Testing for
1st digit	5	Protected against dust limited ingress	Protected against quantity of dust that could interfere with the normal operation of the product or compromise safety
2nd digit	4	No harmful effects from water splashing from any direction	Spray rotating equipment with 10L/min flow for 10 min. from height of 300~500mm

## USE

- Lever type digital test indicator
- Measuring surface flatness, checking tool setup, axial runout, checking squareness

## MATERIAL

- Probe: Carbide

## FEATURES

- Built-in Bluetooth digital test indicator
- Display rotates 270°
- The display has both digital and analog display for easy reading
- MIN, MAX, DELTA (Max. displacement) measurement function
- Measuring direction (+/-) switching function ● Preset function
- Auto display off function (After approx.10 min)
- Selectable minimum reading display: 0.01mm/0.001mm

## SPECIFICATIONS

- Radio system: Bluetooth5.0 (Communication distance within 15m)
- ※ Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea), NCC (Taiwan) and CCC (China).
- For use in other countries, please contact us.

## POWER

- CR2032 (lithium battery) included for testing

## ACCESSORIES

- φ8 dovetail stem

※ We also offer replacement measuring elements.

■ Probe for S-line test indicator (For replacement)

● Mounting screw size: M1.4 x P0.3, screw length 2mm

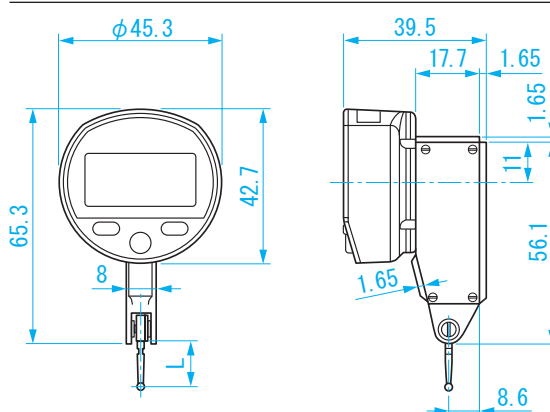
Order No.	Model No.	Probe Length L (mm)	Probe diameter (mm)	Applicable Model No.
151717	DET-P125S1	12.5	φ 1	DET-0800S
151718	DET-234S1-S			DET-0800SW
151719	DET-234S2-S	36.5	φ 2	DET-2000S DET-2000SW

※ Requires calibration with standard when replacing probe

※ Quantization Error (± 1 digit) not included

Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Minimum Reading Display (mm)	Maximum Error (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight
151746	DET-0800SW	0.8	0.001	0.01/0.001 (switchable)	3	2	1	Less than 0.2	70g
151747	DET-2000SW	2.0			8	3		Less than 0.1	70g

## ● DIMENSIONS



Units: mm

Model No.	L
DET-0800SW	12.5
DET-2000SW	36.5



## DIGITAL INDICATOR (IP65)



HOW TO MOVE

IP65 rating digital indicator, can be used in cutting fluid environment.  
With tolerance setting function suitable for inspection, and digital/  
analog dual-indication for intuitive reading.

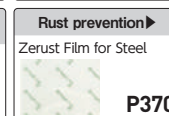
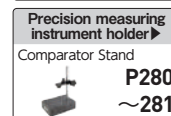
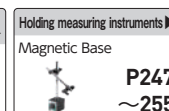
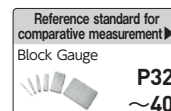
## Protection category IP65

IP is an protection class indication of electrical equipment and cabinets against solid objects and water, as specified in IEC60529.

Class	IP	Definition	Testing for
1st digit	6	No ingress of dust allowed	Complete protection against contact
2nd digit	5	No harmful effects from direct jet of water from any direction	Spray rotating equipment with 12.5L/min flow for at least 3 min. at distance of 2.5~3m



DEI-127M



## USE

- For measuring displacement such as unevenness of flat surface, OK/ NG for mounting of workpiece, runout of shaft, and squareness

## MATERIAL

- Stem: Stainless steel ● Probe tip: Carbide

## FEATURES

- **IP65** rating digital indicator, protected against dust and water
- Tolerance mode
- Measuring direction (+/-) switching function
- Preset function
- ABS/INC switching function
- Display hold function
- With analog display (range  $\pm 0.025\text{mm}$  in unit of  $0.001\text{mm}$ )
- Auto power off function (after 5 min.: sleep mode, after 8 hrs.: power-off)
- Flat type back and center-lug back included

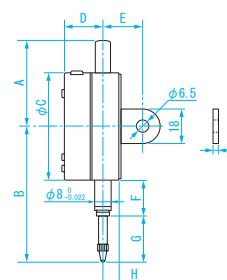
## POWER

- One CR2032 (lithium) battery included for testing

## ACCESSORIES

- Flathead screwdriver (for battery replacement)
- Finger rest (DEI-254M only)

## DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H
DEI-127M	45	70	56	20	19	19	23	8
DEI-254M	54	111	56	24	24	47	36	12

※ Quantization Error ( $\pm 1$  digit) not included

Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Error of indication over a range of Measuring range $\pm$ ( $\mu\text{m}$ )	Hysteresis Error ( $\mu\text{m}$ )	Repeatability ( $\mu\text{m}$ )	Measuring Force (N)	Weight (including flat type back)
151915	DEI-127M	12.7	0.001	7	4	2	Less than 1.5	110g
151916	DEI-254M	25.4	0.001	8			Less than 2.2	160g

KEYBOARD DATA TRANSFER CABLE **NEW!**

This communication cable that connects supported measurement equipment to a PC for output of measurement data.  
No special software is required, the data can be recorded into Excel etc.

## USE

- Connects supported measurement equipment to a PC for output of measurement data

## MATERIAL

- ABS

## FEATURES

- Measured values can be output to any software that allows keyboard input, such as Excel, Word, Notepad, etc
- When a Mini Plug Foot Pedal (sold separately) is connected, measurement data can be output without using hands

## SPECIFICATIONS

- Applicable Gauges: Digital Indicator DEI-127M / DEI-254M
- OS: Windows 7,8,10,11
- Software: Programs which accept keyboard input (Excel, Word, Notepad, etc.)

## POWER

- USB bus



DEI-C-KEY



EPJ35-FP

Order No.	Model No.	PC Connector	Cable Length (m)	Body Dimensions (mm)	Weight
<b>NEW!</b> 151919	DEI-C-KEY	USB Type-A	PC Side: Approx. 1.0 Measuring Device Side: Approx. 1.0	Approx. 45×73×23	90g

● (sold separately) mini plug foot pedal 【Supported models: Keyboard Date Transfer Cable, DEI-C-KEY・Electric Micrometer Display, M3】

Order No.	Model No.	PC Connector	Cable Length (m)	Body Dimensions (mm)	Weight
<b>NEW!</b> 151920	EPJ35-FP	$\phi 3.5$ Mini Plug / 2-Pole	Approx. 2.0	Approx. 80×82×33	95g







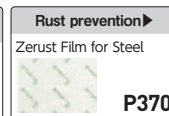
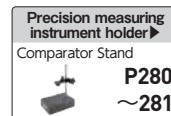
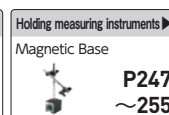
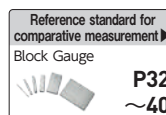


## DIAL GAUGE KAIKAN

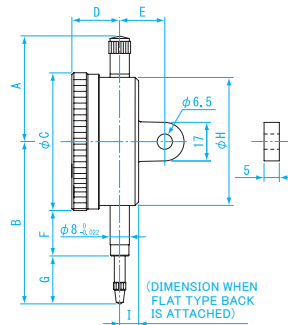
Originally designed graduation prevents misreading



HOW TO MOVE



## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I
WDI-10KD	43.5	68.5	58	16.5	19	18.5	21	53.5	8

## USE

- For measuring displacement such as unevenness of flat surface, OK/ NG for mounting of workpiece, runout of shaft, and squareness

## MATERIAL

- Body & probe: Steel

## FEATURES

- Stepped length of linear graduations for easy-to-read
- Graduation 0.01mm, measuring range 0~10mm
- Limit indicator clips included
- Jeweled bearings
- Green scale plate
- Flat type back and center-lug back included

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Dial Reading	1 Revolution (mm)	Indication Error 1/10 rev (μm)	Indication error over the Entire Measuring range (μm)	Hysteresis Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight (including flat type back)
151677	WDI-10KD	0.01	10	±0-100	1	8	20	5	5	Less than 1.5	180g

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

FILM THICKNESS

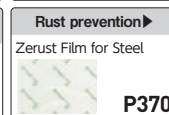
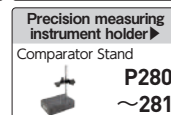
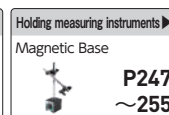
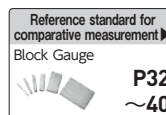
## DIAL GAUGE STANDARD TYPE

Standard size.

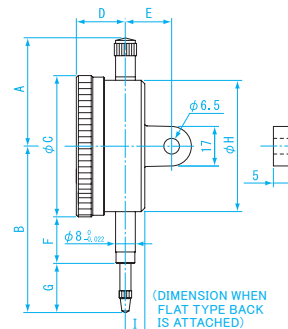
Good performance and reasonable price.



HOW TO MOVE



## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I
WDI-10	43.5	68.5	58	16.5	19	18.5	21	53.5	8

## USE

- Measuring surface flatness, checking tool set up, axial runout, checking squareness

## MATERIAL

- Body&probe: Steel

## FEATURES

- Graduation 0.01mm
- Limit indicator clips included
- Jeweled bearings
- Green scale plate
- Flat type back and center-lug back included

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Dial Reading (mm)	1 Revolution (mm)	Indication Error 1/10 rev (μm)	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight (including flat type back)
151520	WDI-10	0.01	10	±0-100	1	8	20	5	5	Less than 1.5	180g



## DIAL GAUGE STANDARD TYPE

Standard dial gauge with carbide probe

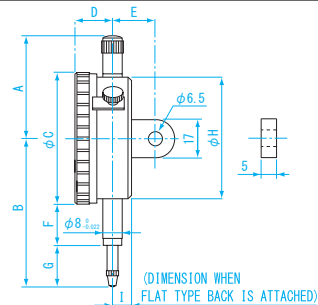


Reference standard for comparative measurement Block Gauge P32 ~40	GO/NOGO judgment Limit Mark Sticker P243	Holding measuring instruments Magnetic Base P247 ~255
Precision measuring instrument holder Comparator Stand P280 ~281	Rust prevention Zerust Film for Steel P370	



WDI-0558SP

## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I
WDI-0558SP	43.5	68.5	58	17	19	18.5	21	54	8
WDI-1058SP									

## USE

- Measuring surface flatness, checking tool set up, axial runout, checking squareness

## MATERIAL

- Body: Aluminum, steel
- Probe: Carbide

## FEATURES

- Graduation 0.01mm
- Limit indicator clips included
- Jeweled bearings
- Green scale plate
- Flat type back and center-lug back included
- Shock proof spindle mechanism protects the gear from abrupt motion

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Dial Reading	1 Revolution (mm)	Indication Error 1/10 rev (μm)	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight (including flat type back)
151912	WDI-0558SP	0.01	5	±0-100	1	8	16	3	3	Less than 1.5	190g
151913	WDI-1058SP		10			10	20				

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

FILM THICKNESS

## DIAL GAUGE STANDARD TYPE

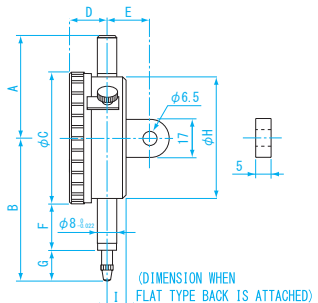
Standard dial gauge graduation 0.001mm with carbide probe



Reference standard for comparative measurement Block Gauge P32 ~40	GO/NOGO judgment Limit Mark Sticker P243	Holding measuring instruments Magnetic Base P247 ~255
Precision measuring instrument holder Comparator Stand P280 ~281	Rust prevention Zerust Film for Steel P370	



## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I
WDI-0158SP	45	61.5	56	17	19	20	13.5	54	8

## USE

- Measuring surface flatness, checking tool set up, axial runout, checking squareness

## MATERIAL

- Body: Aluminum, steel
- Probe: Carbide

## FEATURES

- Graduation 0.001mm
- Limit indicator clips included
- Jeweled bearings
- Green scale plate
- Flat type back and center-lug back included
- Shock proof spindle mechanism protects the gear from abrupt motion

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Dial Reading	1 Revolution (mm)	Indication Error 1/10 rev (μm)	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight (including flat type back)
151911	WDI-0158SP	0.001	1	0-100-0	0.2	3	5	2	0.3	Less than 2.0	190g

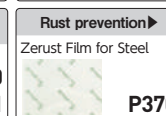
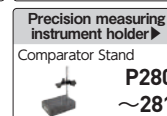
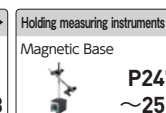
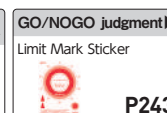
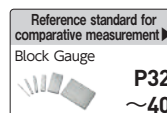


## DIAL GAUGE LONG STROKE TYPE

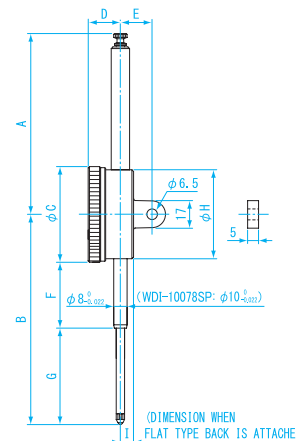


HOW TO MOVE

Suitable for adjusting ignition timing  
and top dead center of car engine and others



## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I
WDI-3058SP	37.5	86.5	58	19	19.5	19.5	38	53.5	8.5
WDI-5058SP	108.5	126	58	19	19.5	39.5	57.5	53.5	8.5
WDI-8058SP	138.5	168.5	58	19	19.5	51.5	88	53.5	8.5
WDI-10078SP	167.5	208	78	20	20.5	61	108	69	10

※ For vertical measurements please keep measurement head above shaft

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Dial Reading (mm)	1 Revolution (mm)	Indication Error 1/10 rev (μm)	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight (including flat type back)
151586	WDI-3058SP	0.01	30	0-100	1	14	35	7	5	Less than 3.0	210g
151587	WDI-5058SP		50			15	40	9		Less than 3.5	270g
151588	WDI-8058SP		80			—	50	11	6	Less than 4.0	290g
151589	WDI-10078SP		100			—		15		Less than 4.5	530g

## DIAL GAUGE SMALL TYPE



Good performance and reasonable price

## USE

- For multi-measurement or mounting to fixtures

## MATERIAL

- Body: Steel
- Probe: Steel

## FEATURES

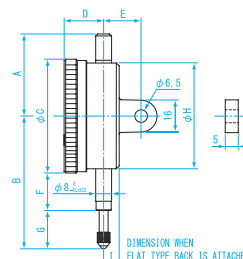
- Graduation 0.01mm, small size dial gauge
- Limit indicator clips included
- Jeweled bearings
- Green scale plate
- Flat type back and center-lug back included



WDI-0342

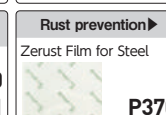
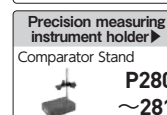
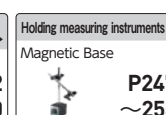
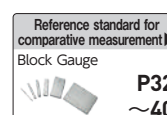
WDI-0542

## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I
WDI-0342	31	45	42	14	18	14	10	40	7
WDI-0542	31	47	42	14	18	14	12	40	7



Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Dial Reading (mm)	1 Revolution (mm)	Indication Error 1/10 rev (μm)	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force (N)	Weight (including flat type back)
151512	WDI-0342	0.01	3	±0-50	0.5	8	14	6	5	Less than 1.5	100g
151513	WDI-0542		5			9	16				



## DIAL GAUGE REPLACEABLE TIP



DI-CP



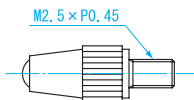
## USE

- Dial gauge probe tip

## MATERIAL

- Measurement tip: Steel ball (DI-CP・DI-CPK)  
Carbide (WDI-W)

## ● DIMENSIONS Units: mm

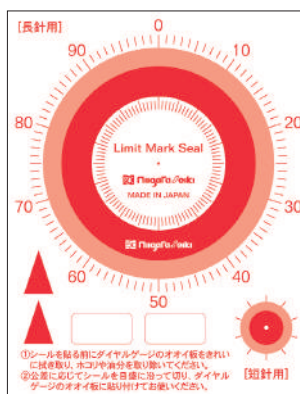


## Compatibility Table

Model No.	Applicable Dial Indicator			
DI-CP	WDI-10KD	WDI-10		
	WDI-3058SP	WDI-5058SP	WDI-8058SP	
	WDI-10078SP	WDI-0342	WDI-0542	
	DD-205			
	• Ex-model No.			
DI-CPK	DI-3058	DI-5058	DI-8058	DI-10078
	DI-0342	DI-0542	DI-1058	
	DI-1220A	DI-1220AS	DI-1102A	DI-1810A
	• Ex-model No.			
WDI-W	DI-10 (Rev. since 2007)	DI-10KD		
	DI-1060SC	DI-0560SC	DI-0160SC	
	WDI-0158SP	WDI-0558SP	WDI-1058SP	

Order No.	Model No.
151500	DI-CP
151675	DI-CPK
151914	WDI-W

## DIAL GAUGE LIMIT MARK STICKER



## USE

- GO/NO GO judgment for diameter inspection

## MATERIAL

- Pobick #100Rt-H (high strength, transparent, removable)

## FEATURES

- Acceptable range is clearly visible. Ideal for inspection of mass produced parts.
- Includes arrow pointers for use with notes, indicating alert points, etc.

## SPECIFICATIONS

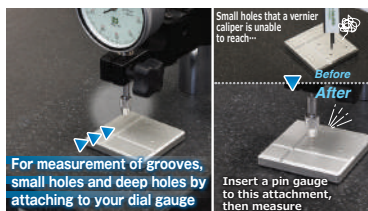
- Applicable dial gauge: DIAL face more than  $\phi 52\text{mm}$
- Sticker outside diameter: Long indicator  $\cdots \phi 51.5\text{mm}$   
Short indicator  $\cdots \phi 10\text{mm}$
- Contains 10 pcs

Order No.	Model No.	Quantity	Weight
151674	DI-LMS	10	20g

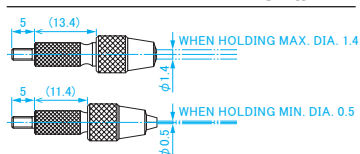
## DIAL GAUGE ATTACHMENT



An attachment capable of changing your dial gauge probe that suits your measurement



## ● DIMENSIONS Units: mm



## USE

- For changing dial gauge probe depending on purpose of measurement

## MATERIAL

- Brass

## FEATURES

- Capable of changing dial gauge probe into various forms by attaching to your dial gauge and fixing a pin gauge, a needle pin, a parallel pin gauge etc

## SPECIFICATIONS

- Holdable probe dia.:  $\phi 0.5 \sim 1.4\text{mm}$
- Screw size: M2.5 x P0.45
- Insertion depth of probe hole: Approx. 18mm
- ※ Probe not included

Order No.	Model No.	Weight
151673	D-0514A	5g

## PROTECTION FILM FOR DIAL GAUGE

NEW!



For protection of dial gauge crystal  
With instruction stickers



## USE

- Prevents scratches and cracks on the dial gauge's crystal

## MATERIAL

- PET

## FEATURES

- Attaching to the dial gauge crystal prevents scratching and cracking

## SPECIFICATIONS

- Product dimensions:  $\phi 42\text{mm}$
- 2 pcs set

Order No.	Model No.	Quantity	Weight
NEW! 151678	DI-PF	2	0.5g

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

FILM THICKNESS



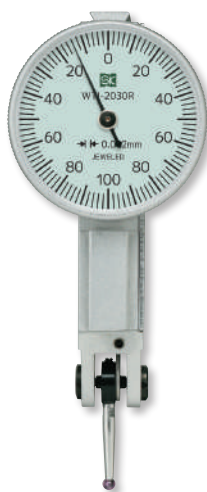
## DIAL INDICATOR (0 ~ 0.2mm/Graduation 0.002mm)



HOW TO MOVE

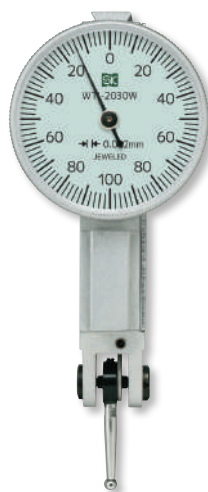
Suitable for surface flatness,  
straightness and axial runout measurement in narrow area

Holding measuring instruments ▶ Height Gauge <b>P202</b> ~206	Holding measuring instruments ▶ Magnetic Base <b>P247</b> ~255	Rust prevention ▶ Zerust Film for Steel <b>P370</b>
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WTI-2030R (Ruby ball)

- High abrasion resistance
- Not electrically conductive
- Non-magnetic



WTI-2030W (Carbide ball)

- High abrasion resistance
- High hardness
- Low coefficient of thermal expansion

## USE

- Lever type dial gauge

## MATERIAL

- Body: Steel

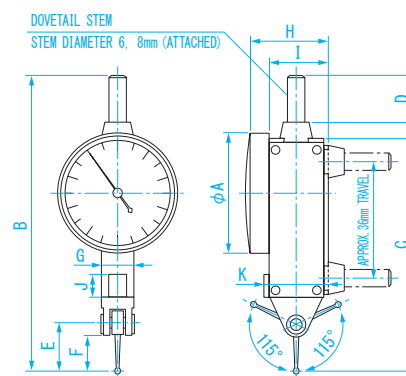
## FEATURES

- Compact with long reach for measuring in deep and confined spaces
- Jeweled bearings
- Green scale plate

## ACCESSORIES

- $\phi 6$  mm Stem (with Dovetail Groove)
- $\phi 8$  mm Stem (with Dovetail Groove)
- Spanner for Replacing Probe

## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I	J	K
WTI-2030R WTI-2030W	30	97	73	17	16	12	10	26	18.4	15	20
WTI-2038R WTI-2038W	37.5									7	

Order No.	Model No.	Probe Material	Graduation (mm)	Measuring Range (mm)	Dial Reading	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force less than (N)	Weight
151925	WTI-2030R	Ruby	0.002	0.2	0-100-0	6	2	1	Less than 0.5	70g
151926	WTI-2038R									80g
151929	WTI-2030W	Carbide								70g
151930	WTI-2038W									80g

\*The probe can only be replaced with WTI-20R or WTI-20W.

## REPLACEABLE PROBE FOR DIAL INDICATOR

Replaceable probe for dial indicator

## ● DIMENSIONS Units: mm

## USE

- Replaceable probe for dial indicator
- ※ Requires calibration with standard after replacing probe

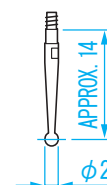
Order No.	Model No.	Probe Material	Model No. of applicable dial indicator
151935	WTI-20R	Ruby	WTI-2030R WTI-2038R
151937	WTI-20W	Carbide	WTI-2030W WTI-2038W



WTI-20R



WTI-20W





## DIAL INDICATOR (0 ~ 0.8mm/Graduation 0.01mm)



HOW TO MOVE

Suitable for surface flatness,  
straightness and axial runout measurement in narrow area

Holding measuring instruments ▶ Height Gauge <b>P202</b> ~206	Holding measuring instruments ▶ Magnetic Base <b>P247</b> ~255	Rust prevention ▶ Zerust Film for Steel <b>P370</b>
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WTI-8030S (Steel ball)



WTI-8030R (Ruby ball)



WTI-8030W (Carbide ball)

## USE

- Lever type dial gauge

## MATERIAL

- Body: Steel

## FEATURES

- Compact with long reach for measuring in deep and confined spaces
- Jeweled bearings
- Green scale plate

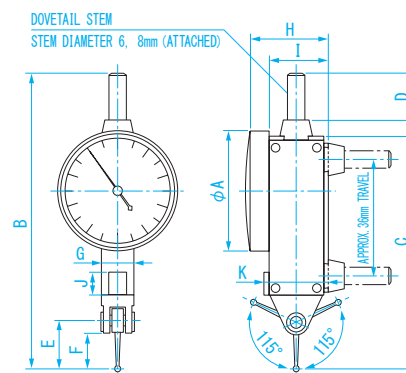
## ACCESSORIES

- $\phi 6$  mm Stem (with Dovetail Groove)
- $\phi 8$  mm Stem (with Dovetail Groove)
- Spanner for Replacing Probe

- High abrasion resistance
- Not electrically conductive
- Non-magnetic

- High abrasion resistance
- High hardness
- Low coefficient of thermal expansion

## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E	F	G	H	I	J	K
WTI-8030S WTI-8030R WTI-8030W	30									15	
WTI-8038S WTI-8038R WTI-8038W	37.5	97	73	17	16.5	12.5	10	26	18.4	7	20

Order No.	Model No.	Probe Material	Graduation (mm)	Measuring Range (mm)	Dial Reading	Error over entire range (μm)	Backlash Error (μm)	Repeatability (μm)	Measuring Force less than (N)	Weight
151923	WTI-8030S	Steel	0.01	0.8	0-40-0	13	3	3	Less than 0.5	70g
151924	WTI-8038S									80g
151927	WTI-8030R	Ruby								70g
151928	WTI-8038R									80g
151931	WTI-8030W	Carbide								70g
151932	WTI-8038W									80g

\*The probe can only be replaced with WTI-80S, WTI-80R or WTI-80W.

## REPLACEABLE PROBE FOR DIAL INDICATOR

Replaceable probe for dial indicator

## USE

- Replaceable probe for dial indicator
- ※ Requires calibration with standard after replacing probe

Order No.	Model No.	Probe Material	Model No. of applicable dial indicator
151934	WTI-80S	Steel	WTI-8030S WTI-8038S
151936	WTI-80R	Ruby	WTI-8030R WTI-8038R
151938	WTI-80W	Carbide	WTI-8030W WTI-8038W



WTI-80S

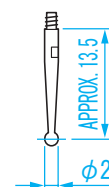


WTI-80R



WTI-80W

## ● DIMENSIONS Units: mm



DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS






FILM THICKNESS













# MAGNETIC BASE LIST

Product Photo					
Order No.	012896	012897	012898	012870	012871
Product Name	Magnet Base Lock Type	Magnet Base Lock Type	Magnet Base Lock Type	Magnetic Base Standard Type	Magnetic Base Fine Adjustment Type
Model No.	WMB-50G	WMB-80G	WMB-100G	SB-6C	SB-6B
Features	Lock all joints simultaneously with a knob / Compatible with optional cylindrical clamp fixtures			Standard	Fine adjustment for easy position setting
Holder Size	$\phi$ 6mm / $\phi$ 8mm / With dovetail grooves			$\phi$ 6mm Stem / $\phi$ 8mm Stem / $\phi$ 6.5mm & $\phi$ 8mm Lug back dial gauge	
Magnetic Adsorption (approx.)	500N	800N	1000N	800N	
Magnet ON / OFF	○	○	○	○	○
Main post Size (mm)	67 + 56	110 + 85	155 + 100	$\phi$ 12 × 178	
Arm Size (mm)	—	—	—	$\phi$ 10 × 165	
Catalog Page	248	248	248	249	249

Product Photo						
Order No.	012873	012899	012874	012875	012868	012872
Product Name	Magnetic Base Thick Main Post Type	Magnet Base Thick Main Column Type	Magnetic Base Flexible Post Type	Magnetic Base Lock Type	Magnet Base Free Base Type	Magnetic Base Mini Type
Model No.	SB-80P	SB-130PL	SB-80F	SB-100G	WMB-45FR	SB-25M
Features	Stable holding is possible	Equipped with the tallest main column	It post can be bent flexibly	Easy joint locking	Deformable adhesive surface	Compact size for use in narrow space
Holder Size	$\phi$ 6mm Stem / $\phi$ 8mm Stem / $\phi$ 6.5mm & $\phi$ 8mm Lug back dial gauge	$\phi$ 6mm / $\phi$ 8mm / Lug hole $\phi$ 6.5mm, Compatible with $\phi$ 8mm dial gauges	$\phi$ 6mm / $\phi$ 8mm / Dovetail	$\phi$ 6mm / $\phi$ 8mm / Dovetail	$\phi$ 6mm / $\phi$ 8mm / With dovetail grooves	$\phi$ 6mm
Magnetic Adsorption (approx.)	800N	1300N	800N	1000N	450N	250N
Magnet ON / OFF	○	○	○	○	○	○
Main post Size (mm)	$\phi$ 14 × 178	$\phi$ 20 × 350	$\phi$ 16 × 340	145 + 125 + 50	110 + 85	$\phi$ 7 × 54
Arm Size (mm)	$\phi$ 12 × 165	$\phi$ 14 × 200	—	—	—	—
Catalog Page	250	250	250	251	251	252







DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



Product Photo						
Order No.	012705	012704	012700	012701	012702	012703
Product Name	Magnetic Base Mini Lock Type	Mini Magnetic Base	Mini Magnetic Base	Mini Magnetic Base Fine Adjustment Type	Mini Magnetic Base Fine Adjustment with Long Post	Mini Magnetic Base
Model No.	MB-7	MB-6	B-2	B-3	B-4	B-5
Features	Easy joint locking	Fine adjustment for easy position setting, with universal joint	Mini type	Fine adjustment for easy position setting	Fine adjustment for easy position setting, with long main post	With universal joint for easy angle adjustment
Holder Size	$\phi$ 6.0mm / $\phi$ 8.0mm / grooved	$\phi$ 8mm / Dovetail	$\phi$ 6mm	$\phi$ 6mm / Dovetail		$\phi$ 6.0mm / $\phi$ 8.0mm / Lug back dial gauge
Magnetic Adsorption (approx.)	250N	200N	80N	65N		200N
Magnet ON / OFF	○	×	×	×	×	×
Main post Size (mm)	58 + 64	62 + 15	31	31	90	28
Arm Size (mm)	—	—	—	89mm long arm	89mm long arm	89mm long arm
Catalog Page	252	252	253	253	253	253

CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

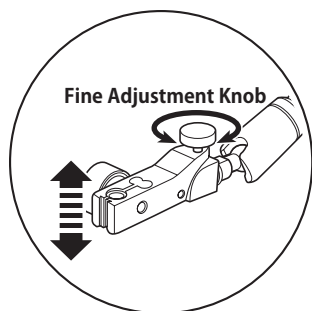
FILM THICKNESS



## MAGNETIC BASE LOCK TYPE

One lock knob for locking all joints.

Firmly locks with a light force, and precise position adjustment is also possible.



Enables smooth and easy fine feeding for precise positioning.

### USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

### MATERIAL

- Body: Aluminum
- Magnet: Neodymium (WMB-50G)  
Ferrite (WMB-80G, WMB-100G)

### FEATURES

- Mechanical lock knob locks all joints with a single operation
- Removable with ON/OFF lever operation
- Capable of holding cylindrical work as well by attaching separately sold CLUMP JIG FOR CYLINDRICAL WORK

### SPECIFICATIONS

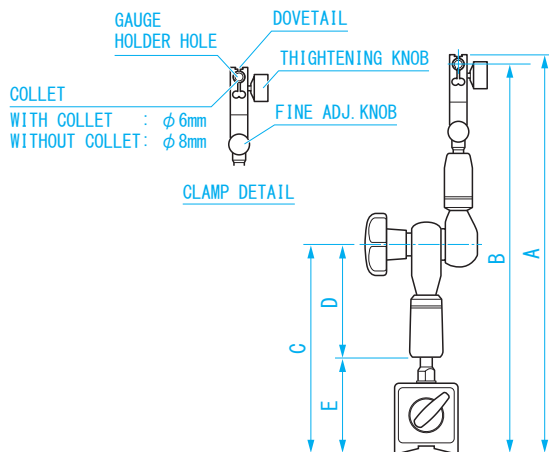
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- With dovetail mount

### Parts for Magnetic Base $\Rightarrow$ P255



WMB-80G

### ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E
WMB-50G	253	246	122	67	55
WMB-80G	340	333	180	110	70
WMB-100G	405	398	230	155	75

Order No.	Model No.	Magnetic Adsorption (N)	Base Dimension (mm)	Base - Arm Screw	Arm - Clamp Screw	Weight
012896	WMB-50G	Approx. 500	40×40×40	M6×P1.0		710g
012897	WMB-80G	Approx. 800	50×60×55	M8×P1.25	M6×P1.0	1,380g
012898	WMB-100G	Approx. 1000	50×75×55	M8×P1.25		1,830g

## CLUMP JIG FOR CYLINDRICAL WORK

For holding cylindrical work.

Applicable to MAGNETIC BASE LOCK TYPE WMB series.

### USE

- As a jig for cylindrical work

### MATERIAL

- Body: Aluminum
- Lever: Iron

### FEATUES

- To be used by attaching to MAGNETIC BASE LOCK TYPE WMB series

### SPECIFICATIONS

- Mounting hole screw: M6×P1.0
- Workpiece weight: Up to 2kg
- Workpiece diameter:  $\phi 12 \sim 30\text{mm}$

### APPLICABLE MODEL

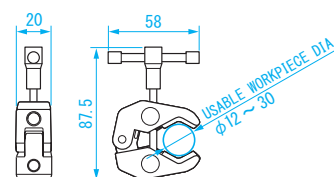
- MAGNETIC BASE LOCK TYPE WMB-50G·WMB-80G·WMB-100G·WMB-45FR



For holding cylindrical work

### ● DIMENSIONS

Units: mm



Order No.	Model No.	Weight
012901	CC-WMB	130g



0

## MAGNETIC BASE STANDARD TYPE



Can be used with a lug back dial gauge

Measuring instruments▶ Dial Gauge P233~235 · P238~242	Measuring instruments▶ Test Indicator P236~237 · P244~246
Replacement part▶ Parts for Magnetic Base P254 ~255	Rust prevention▶ Zerust Film for Steel P370

## USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

## MATERIAL

- Body: Rolled steel for general structure
- Magnet: Ferrite

## FEATURES

- Standard type
- Removable with ON/OFF lever operation

## SPECIFICATIONS

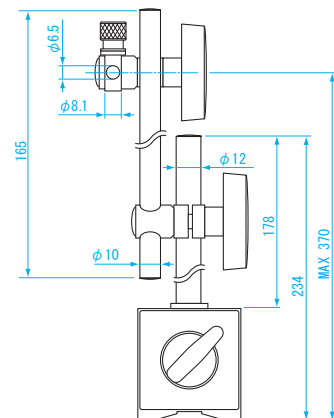
- Magnetic adsorption: **approx. 800N**
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- Lug back holder:  $\phi 6.5\text{mm} \cdot \phi 8\text{mm}$
- Main post screw: M8×P1.25

Parts for Magnetic Base⇒P254



## ● DIMENSIONS

Units: mm



P356 Magnet Types and Characteristics

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012870	SB-6C	50×60×55	Max. 100	1.5kg

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

FILM THICKNESS

## MAGNETIC BASE FINE ADJUSTMENT TYPE



Can be used with a lug back dial gauge

Fine adjust knob

Measuring instruments▶ Dial Gauge P233~235 · P238~242	Measuring instruments▶ Test Indicator P236~237 · P244~246
Replacement part▶ Parts for Magnetic Base P254 ~255	Rust prevention▶ Zerust Film for Steel P370

## USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

## MATERIAL

- Body: Rolled steel for general structure
- Magnet: Ferrite

## FEATURES

- Fine adjustment type (2mm adj. range)
- Removable with ON/OFF magnet operation

## SPECIFICATIONS

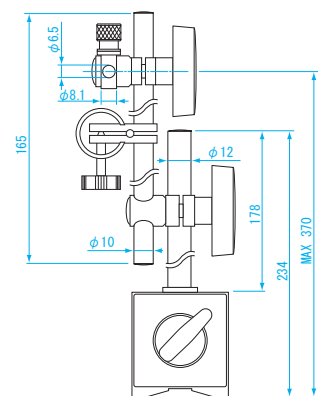
- Magnetic adsorption: **approx. 800N**
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- Lug back holder:  $\phi 6.5\text{mm} \cdot \phi 8\text{mm}$
- Main post screw: M8×P1.25

Parts for Magnetic Base⇒P254



## ● DIMENSIONS

Units: mm



P356 Magnet Types and Characteristics

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012871	SB-6B	50×60×55	Max. 100	1.5kg



## MAGNETIC BASE THICK MAIN POST TYPE

NEW!

(012899)

0

Thick main post type for stable holding.  
Highest main post and largest base size in series history.  
Strong adsorption type is newly released (SB-130PL).



Can be used with a lug back dial gauge

## USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

## MATERIAL

- Body: Rolled steel for general structure
- Magnet: Ferrite
- Head: Aluminum

## FEATURES

- Main and support post of thick specifications are adopted.  
Holds measuring instruments stably.
- Removable with ON/OFF magnet operation

## SPECIFICATIONS

- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- Lug back holder:  $\phi 6.5\text{mm} \cdot \phi 8\text{mm}$

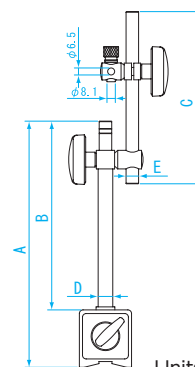
Thick main post



SB-80P

SB-130PL

## ● DIMENSIONS



Units: mm

Model No.	A	B	C	D	E
SB-80P	236	175	165	$\phi 14$	$\phi 12$
SB-130PL	410	355	200	$\phi 20$	$\phi 14$

Parts for Magnetic Base⇒P254

P356 Magnet Types and Characteristics

Order No.	Model No.	Magnetice adsorption (N)	Main post Dimension (mm)	Support post Dimension (mm)	Base Dimension (mm)	Surface magnetic flux density (mT)	Main point screw	Weight
012873	SB-80P	Approx. 800	$\phi 14 \times 178$	$\phi 12 \times 165$	50×60×55	Max. 100	M8×P1.25	1.5kg
<b>NEW!</b> 012899	SB-130PL	Approx. 1300	$\phi 20 \times 350$	$\phi 14 \times 200$	50×117×55		M10×P1.25	3.4kg

DIAL GAUGE

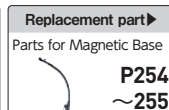
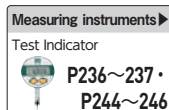
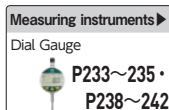
DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE

## MAGNETIC BASE FLEXIBLE POST TYPE

0



## USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

## MATERIAL

- Body: Rolled steel for general structure
- Magnet: Ferrite

## FEATURES

- Flexible post for quick and easy positioning.  
One touch lever to fix position securely.
- Removable with ON/OFF magnet operation

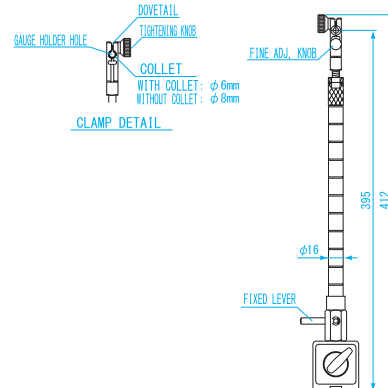
## SPECIFICATIONS

- Magnetice adsorption: **approx. 800N**
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- With dovetail mount
- Main post screw: M8×P1.25



## ● DIMENSIONS

Units: mm



Parts for Magnetic Base⇒P255

P356 Magnet Types and Characteristics

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012874	SB-80F	50×60×55	Max. 100	1.3kg



## MAGNETIC BASE LOCK TYPE



**Measuring instruments▶**  
Dial Gauge  
P233~235 ·  
P238~242

**Replacement part▶**  
Parts for Magnetic Base  
P254  
~255

**Measuring instruments▶**  
Test Indicator  
P236~237 ·  
P244~246

**Rust prevention▶**  
Zerust Film for Steel  
P370

## USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

## MATERIAL

- Body: Rolled steel for general structure
- Magnet: Ferrite

## FEATURES

- Mechanical lock knob tightens all joints with a single operation
- Removable with ON/OFF magnet operation

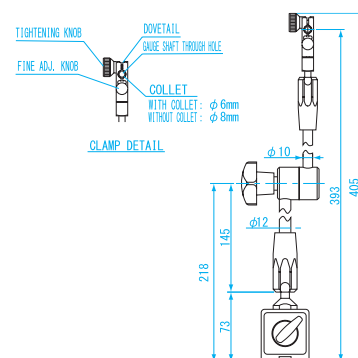
## SPECIFICATIONS

- Magnetic adsorption: **approx. 1000N**
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- With dovetail mount
- Main post screw: M8×P1.255

Parts for Magnetic Base⇒P255

## ● DIMENSIONS

Units: mm



P356 Magnet Types and Characteristics

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012875	SB-100G	50×75×55	Max. 100	1.7kg

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

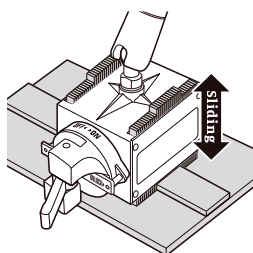
FILM THICKNESS

## MAGNETIC BASE TRANSFORMABLE BASE TYPE

NEW!

Lock firmly even with light force.

The suction surface is deformable and can adsorb on uneven and R-shaped surfaces.



**Measuring instruments▶**  
Dial Gauge  
P233~235 ·  
P238~242

**For holding cylindrical work▶**  
Clamp jig for cylindrical work  
P248

**Measuring instruments▶**  
Test Indicator  
P236~237 ·  
P244~246

**Replacement part▶**  
Parts for Magnetic Base  
P254  
~255

**Rust prevention▶**  
Zerust Film for Steel  
P370

## USE

- Measurements that require a dial gauge or dial indicator to be held in fixed position

## MATERIAL

- Body: Aluminum
- Magnet: Ferrite

## FEATURES

- By sliding the magnet pin, the suction surface is transformed to fit the object
- Lever operation to switch between fixing and releasing the magnet pin
- Magnet can be turned on/off by dial operation
- Mechanical lock knob tightens all joints with a single operation
- It can also be used as a cylindrical workholding tool by attaching the optional cylindrical clamping jig

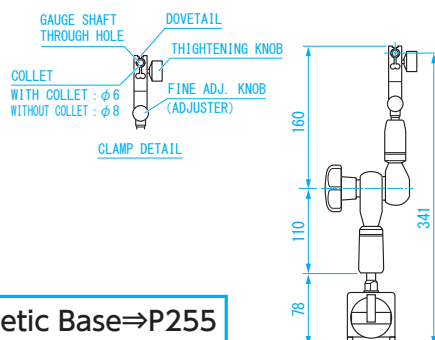
## SPECIFICATIONS

- Adsorption surface movable range: max. approx. 14mm
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- With dovetail

Parts for Magnetic Base⇒P255

## ● DIMENSIONS

Units: mm



Order No.	Model No.	Magnetic Adsorption (N)	Base Dimension (mm)	Base Arm Screw	Arm Clamp Screw	Weight
<b>NEW!</b> 012868	WMB-45FR	約450	54×63×58	M8×P1.25	M6×P1.0	1,300g



## MAGNETIC BASE MINI TYPE

## USE

- Measurements that require a dial indicator to be held in fixed position

## MATERIAL

- Body: Rolled steel for general structure
- Magnet: Neodymium magnet

## FEATURES

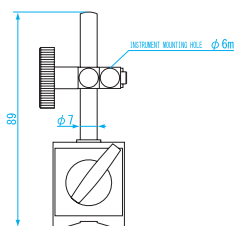
- Compact size
- Removable with ON/OFF magnet operation

## SPECIFICATIONS

- Magnetice adsorption: **approx. 250N**
- Stem holder:  $\phi 6\text{mm}$
- Main post screw: M5×P0.8



## ● DIMENSIONS Units: mm



## Replacement part▶

Parts for Magnetic Base

P254  
~255

## Rust prevention▶

Zerust Film for Steel



P370

P356 Magnet Types and Characteristics

Parts for Magnetic Base⇒P255

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012872	SB-25M	30×35×35	Max. 100	270g

## MAGNETIC BASE MINI LOCK TYPE

## USE

- Measurements that require a dial indicator to be held in fixed position

## MATERIAL

- Magnet: Neodymium magnet

## FEATURES

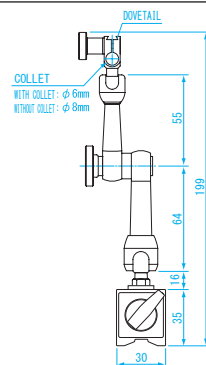
- Mechanical lock knob tightens all three joints with a single operation
- Removable with ON/OFF magnet operation

## SPECIFICATIONS

- Magnetice adsorption: **approx. 250N**
- Stem holder:  $\phi 6\text{mm} \cdot \phi 8\text{mm}$
- With dovetail mount ● Main post screw: M5×P0.8



## ● DIMENSIONS Units: mm



## Measuring instruments▶

Dial Gauge

P233~235 ·  
P238~242

## Replacement part▶

Parts for Magnetic Base

P254  
~255

## Measuring instruments▶

Test Indicator

P236~237 ·  
P244~246

## Rust prevention▶

Zerust Film for Steel



P370

P356 Magnet Types and Characteristics

Parts for Magnetic Base⇒P255

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012705	MB-7	30×35×35	Max. 100	430g

## MINI MAGNETIC BASE FINE ADJUSTMENT TYPE

Can be used in narrow space or on machines

## USE

- Measurements that require a dial indicator to be held in fixed position

## MATERIAL

- Alnico magnet

## FEATURES

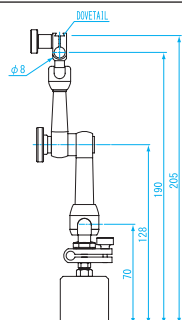
- Strong holding force using alnico magnet
- Universal joint can be set to any angle
- Locking knob for easy tightening
- With fine adjustment (0.5mm adj. range)

## SPECIFICATIONS

- Magnetice adsorption: **approx. 200N**
- Stem holder:  $\phi 8\text{mm}$
- With dovetail mount
- Main post screw: M5×P0.8



## ● DIMENSIONS Units: mm



## Measuring instruments▶

Test Indicator

P236~237 ·  
P244~246

## Rust prevention▶

Zerust Film for Steel



P370

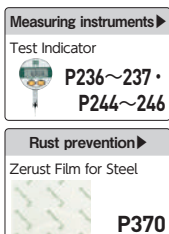
P356 Magnet Types and Characteristics

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012704	MB-6	$\phi 35 \times 32$	Max. 90	510g

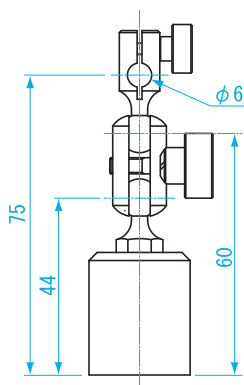


## MINI MAGNETIC BASE

Can be used in narrow space or on machines



● DIMENSIONS Units: mm



P356 Magnet Types and Characteristics

### USE

- Measurements that require a dial indicator to be held in fixed position

### MATERIAL

- Alnico magnet

### FEATURES

- Excellent holding force using high power alnico magnet
- Fixed type

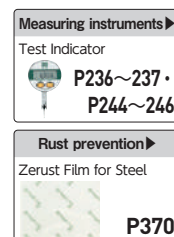
### SPECIFICATIONS

- Magnetice adsorption: **approx. 80N**
- Stem holder: φ6mm
- Main post screw: M5×P0.8

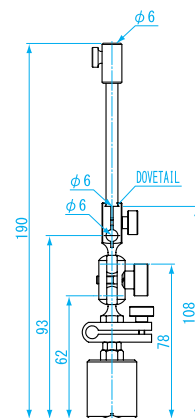
Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012700	B-2	φ25×30	Max. 50	160g

## MINI MAGNETIC BASE FINE ADJUSTMENT TYPE

Can be used in narrow space or on machines



● DIMENSIONS Units: mm



P356 Magnet Types and Characteristics

### USE

- Measurements that require a dial indicator to be held in fixed position

### MATERIAL

- Alnico magnet

### FEATURES

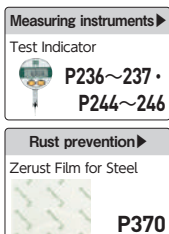
- Excellent holding force using high power alnico magnet
- 89mm long arm
- With fine adjustment (0.5mm adj. range)

### SPECIFICATIONS

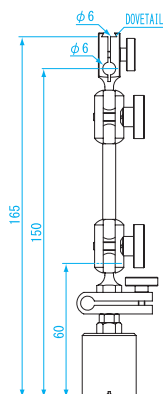
- Magnetice adsorption: **approx. 65N**
- Stem holder: φ6mm
- With dovetail mount
- Main post screw: M5×P0.8

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012701	B-3	25×25×30	Max. 50	230g

## MINI MAGNETIC BASE FINE ADJUSTMENT WITH LONG POST



● DIMENSIONS Units: mm



P356 Magnet Types and Characteristics

### USE

- Measurements that require a dial indicator to be held in fixed position

### MATERIAL

- Alnico magnet

### FEATURES

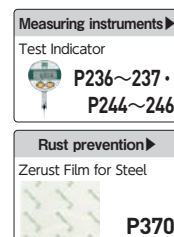
- Excellent holding force using high power alnico magnet
- Two joints
- 89mm long arm
- With fine adjustment (0.5mm adj. range)

### SPECIFICATIONS

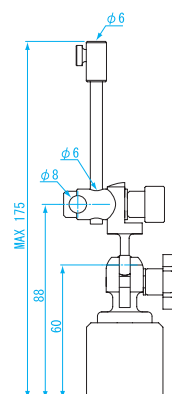
- Magnetice adsorption: **approx. 65N**
- Stem holder: φ6mm
- With dovetail mount
- Main post screw: M5×P0.8

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012702	B-4	25×25×30	Max. 50	280g

## MINI MAGNETIC BASE



● DIMENSIONS Units: mm



P356 Magnet Types and Characteristics

### USE

- Measurements that require a dial indicator to be held in fixed position

### MATERIAL

- Alnico magnet

### FEATURES

- Strong holding force using alnico magnet
- Universal joint can be set to any angle
- Locking knob for easy tightening

### SPECIFICATIONS

- Magnetice adsorption: **approx. 200N**
- Stem holder: φ6mm·φ8mm
- With clamp for mounting dial gauge
- Main post screw: M5×P0.8

Order No.	Model No.	Base Dimension (mm)	Surface magnetic flux density (mT)	Weight
012703	B-5	φ35×32	Max. 90	270g

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

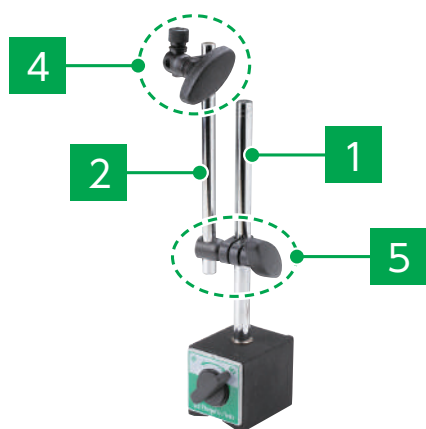
HARDNESS

FILM THICKNESS



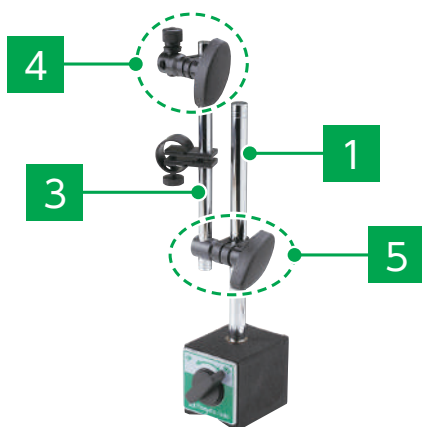
## PARTS FOR MAGNETIC BASE

0



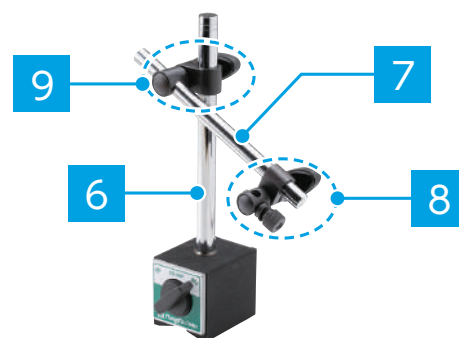
MAGNETIC BASE STANDARD TYPE SB-6C

P249



MAGNETIC BASE WITH FINE ADJUSTMENT TYPE SB-6B

P249



MAGNETIC BASE THICK MAIN POST TYPE SB-80P

P250

DIAL  
GAUGEDIAL  
INDICATORMAGNETIC  
BASETHICKNESS  
GAUGECALIPER  
GAUGEBORE  
GAUGEOTHER  
DIAL  
GAUGES

HARDNESS

FILM  
THICKNESS1 MAIN POST FOR SB-6 ( $\phi 12$ )

Order No.	012691
Model No.	SB6-MP
Compatible Model No.	SB-6C SB-6B

2 ARM FOR SB-6C ( $\phi 10$ )

Order No.	012694
Model No.	SB6C-SP
Compatible Model No.	SB-6C

3 ARM FOR SB-6B ( $\phi 10$ )

Order No.	012681
Model No.	SB6B-SP
Compatible Model No.	SB-6B

## 4 GAUGE CLAMP KNOB FOR SB-6



Order No.	012692
Model No.	SB6-GK
Compatible Model No.	SB-6C SB-6B

## 5 POST CLAMP KNOB FOR SB-6



Order No.	012693
Model No.	SB6-CK
Compatible Model No.	SB-6C SB-6B

6 MAIN POST FOR SB-80P ( $\phi 14$ )

Order No.	012682
Model No.	SB80P-MP
Compatible Model No.	SB-80P

7 ARM FOR SB-80P ( $\phi 12$ )

Order No.	012683
Model No.	SB80P-SP
Compatible Model No.	SB-80P

## 8 GAUGE CLAMP KNOB FOR SB-80P



Order No.	012684
Model No.	SB80P-GK
Compatible Model No.	SB-80P

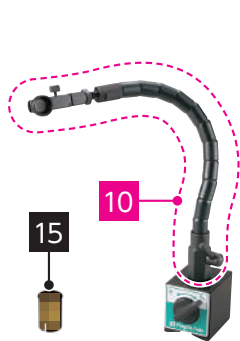
## 9 POST CLAMP KNOB FOR SB-80P



Order No.	012685
Model No.	SB80P-CK
Compatible Model No.	SB-80P



## PARTS FOR MAGNETIC BASE



MAGNETIC BASE FLEXIBLE POST TYPE SB-80F

P250



MAGNETIC BASE LOCK TYPE SB-100G

P251



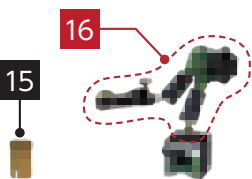
MAGNETIC BASE MINI TYPE SB-25M

P252



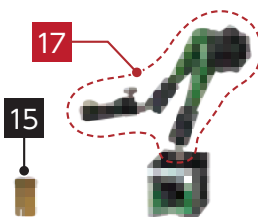
MAGNETIC BASE MINI LOCK TYPE MB-7

P252



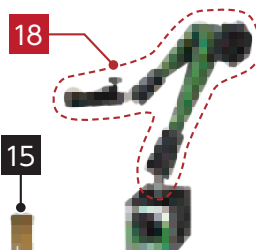
MAGNETIC BASE LOCK TYPE WMB-50G

P248



MAGNETIC BASE LOCK TYPE WMB-80G

P248



MAGNETIC BASE LOCK TYPE WMB-100G

P248



MAGNETIC BASE TRANSFORMABLE BASE TYPE WMB-45FR

P251

## 10 FLEXIBLE POST FOR SB-80F



Order No.	012686
Model No.	SB80F-MPS
Compatible Model No.	SB-80F

## 11 LOCK ARM FOR SB-100G



Order No.	012687
Model No.	SB100G-LAS
Compatible Model No.	SB-100G

## 12 MAIN POST FOR SB-25M (φ7)



Order No.	012688
Model No.	SB25M-MP
Compatible Model No.	SB-25M

## 13 GAUGE CLAMP KNOB FOR SB-25M



Order No.	012689
Model No.	SB25M-GK
Compatible Model No.	SB-25M

## 14 LOCK ARM FOR MB-7



Order No.	012690
Model No.	MB7-LAS
Compatible Model No.	MB-7

## 15 COLLET FOR DIAL GAUGE MOUNT (φ6)



Order No.	012695
Model No.	BC-6
Compatible Model No.	SB-80F、SB-100G、MB-7、WMB-50G、WMB-80G、WMB-100G

## 16 LOCK ARM FOR WMB-50G



Order No.	012902
Model No.	WMB50G-LAS
Compatible Model No.	WMB-50G

## 17 LOCK ARM FOR WMB-80G



Order No.	012903
Model No.	WMB80G-LAS
Compatible Model No.	WMB-80G、WMB-45FR

## 18 LOCK ARM FOR WMB-100G



Order No.	012904
Model No.	WMB100G-LAS
Compatible Model No.	WMB-100G

DIAL  
INDICATORDIAL  
INDICATORMAGNETIC  
BASETHICKNESS  
GAUGECALIPER  
GAUGEBORE  
GAUGEOTHER  
DIAL  
GAUGES

HARDNESS

FILM  
THICKNESS







## DIGITAL THICKNESS GAUGE



Digital type for easy reading

### USE

- One touch thickness measurement of sheet material

### MATERIAL

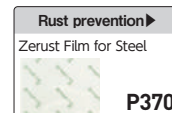
- Body: Steel
- Probe: Ceramic

### FEATURES

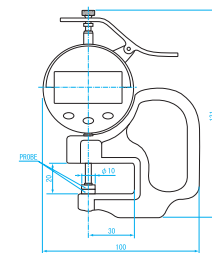
- Digital display for easy reading
- Easy to operate for quick measurements
- Auto power off function (after approx. 5 min.)
- Display hold function

### POWER

- One CR2032 (Lithium) battery included for testing



● DIMENSIONS Units: mm



※ Quantization Error ( $\pm 1$  digit) not included

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Insert Depth (mm)	Accuracy ( $\mu$ m)	Measuring Force (N)	Probe Shape	Weight
151720	DES-3010	0.01	0-10	30	$\pm 20$	Less than 1.5	$\phi 10$ mm Flat	180g

## DIAL THICKNESS GAUGE



Good performance and reasonable price.  
One-touch quick thickness measurement.

### USE

- One-touch quick thickness measurement of small parts or sheet material

### MATERIAL

- Body: Steel

### FEATURES

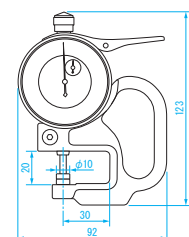
- Easy operation for quick measurements
- Shock proof mechanism protects the gear from abrupt spindle motion



WDT-10SPC



● DIMENSIONS Units: mm



Order No.	Model No.	Measuring Face Material	Graduation (mm)	Measuring Range (mm)	Insertion Depth (mm)	Accuracy ( $\mu$ m)	Measuring Force (N)	Probe Shape	Weight
151682	WDT-10SPS	Steel	0.01	0~10	30	$\pm 20$	Less than 2.5	$\phi 10$ mm Flat	260g
151683	WDT-10SPC	Ceramic							

DIAL GAUGE

DIAL INDICATOR

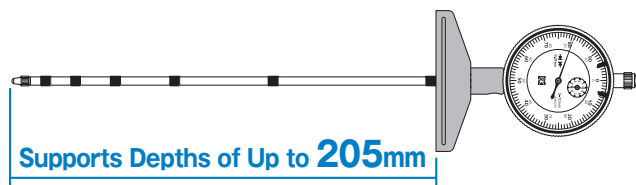
MAGNETIC BASE

THICKNESS GAUGE



## DIAL DEPTH GAUGE

For depth measurement in narrow space



Supports Depths of Up to 205mm

### USE

- For comparison measurement of depth

### MATERIAL

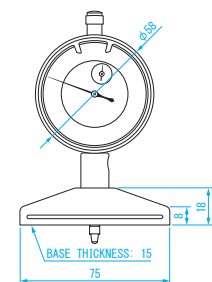
- Dial gauge & probe tip: Steel
- Base: Steel casting stainless

### FEATURES

- Measurement of max. 205mm by replacing the included extension rod (10mm•15mm•20mm•30mm•50mm•80mm)



● DIMENSIONS Units: mm



Order No.	Model No.	Graduation (mm)	Measuring range (mm)	Accuracy ( $\mu$ m)	Weight
151710	DD-205	0.01	Depth: Max. 205 Dial Gauge: 10	$\pm 20$	310g

CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

FILM THICKNESS



# DIGITAL CALIPER GAUGE



Ideal for quick thickness measurement of small parts and tubes

Reference standard for comparative measurement▶  
Block Gauge  
P32 ~40

Rust prevention▶  
Zerust Film for Steel  
P370



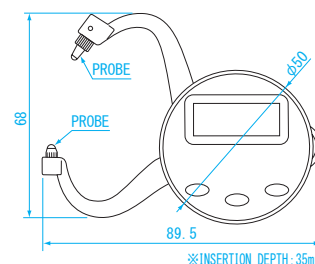
EDC-A125



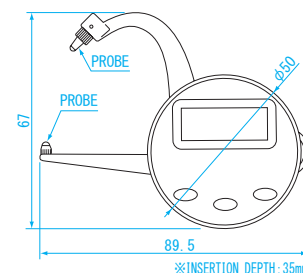
EDC-A225

## DIMENSIONS

Units: mm



EDC-A125



EDC-A225

※ Quantization Error (± 1 digit) not included

## USE

- For external measurement

## MATERIAL

- Body: Steel, plastic

## FEATURES

- Easy to read digital display
- Display hold function, Auto power off function (after approx. 2~5 min)

## POWER

- One CR2032 (Lithium) battery included for testing



DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE

# DIGITAL CALIPER GAUGE



Wide measuring range of 0~150mm

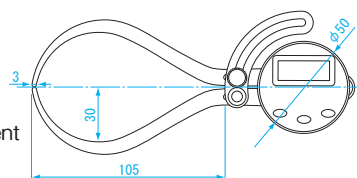
Reference standard for comparative measurement▶  
Block Gauge  
P32 ~40

Rust prevention▶  
Zerust Film for Steel  
P370



## DIMENSIONS

Units: mm



## USE

- For external measurement

## MATERIAL

- Body: Steel, plastic

## FEATURES

- Digital display for easy reading
- Wide measuring range of 0~150mm

## POWER

- One CR2032 (Lithium) battery included for testing

※ Quantization Error (± 1 digit) not included

Order No.	Model No.	Resolution (mm)	Measuring Range (mm)	Accuracy (mm)	Weight
152053	EDC-A1150	0.1	0-150	±0.2	140g

# DIAL CALIPER GAUGE



Quickly measure the thickness of small parts, tubes, etc. with a single touch



WDC-MA1



WDC-MA2

## USE

- For external measurement

## MATERIAL

- Body: Aluminum alloy

## FEATURES

- Convenient portable size
- Round probe tip for measuring irregular shapes



Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Accuracy (mm)	Measuring Face	Weight
NEW! 151577	WDC-MA1	0.05	0-10	±0.1	Round (φ2mm)	75g
NEW! 151578	WDC-MA2					



## DIAL CALIPER GAUGE (OUTSIDE)

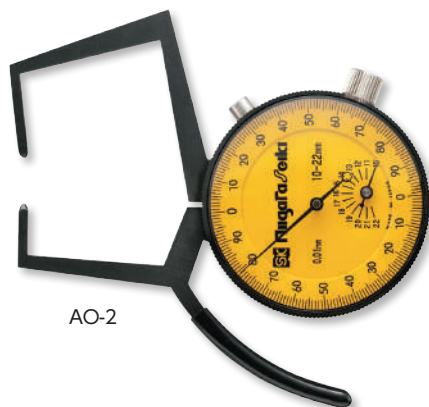
For high accuracy O.D. measurement



Reference standard for  
comparative measurement▶  
Block Gauge  
P32  
~40

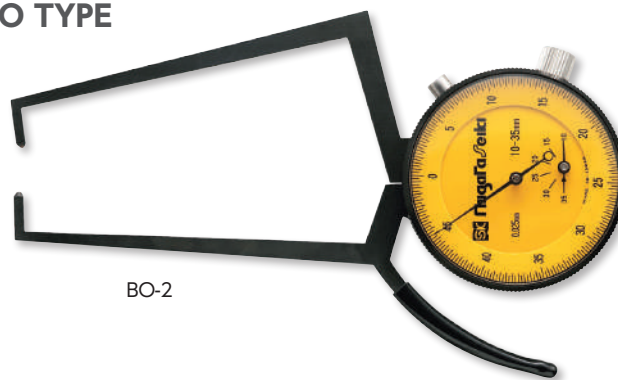
Rust prevention▶  
Zerust Film for Steel  
P370

## AO TYPE

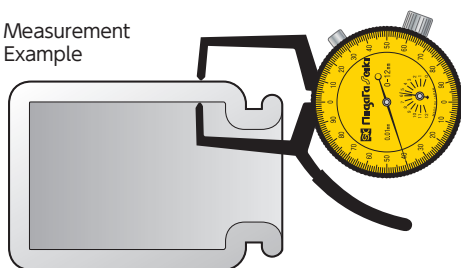


AO-2

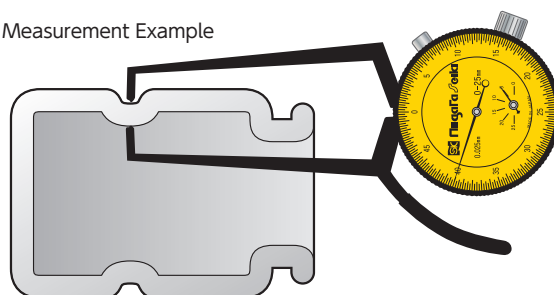
## BO TYPE



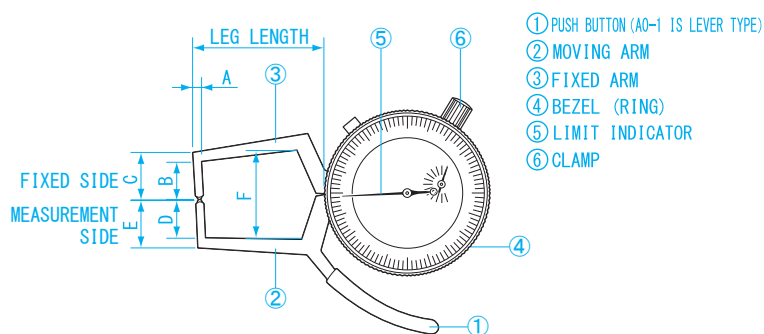
BO-2

Measurement  
Example

Measurement Example

DIAL  
GAUGEDIAL  
INDICATORMAGNETIC  
BASETHICKNESS  
GAUGE

## ● DIMENSIONS



## USE

- For external measurement

## MATERIAL

- Body: Steel

## FEATURES

- Ideal for measuring O.D. and wall thickness

Units: mm

Model No.	Leg Length	A	B	C	D	E	F
AO-1	40	2.3	11.5	14.5	11.5	14.5	27
AO-2	42		18.5	20.5			45
AO-3			8.5	10.5	8.5	10.5	49
BO-1	85						27.5
BO-2	86						46.5
BO-3	89						55.5

※ Gauge head :  $\phi$  1.6mm bal

※ Custom shape product available by special order

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Accuracy (mm)	Repeatability (mm)	Weight
151561	AO-1	0.01	0~12	$\pm 0.04$	0.02	80g
151562	AO-2		10~22			83g
151563	AO-3		20~32			85g
151571	BO-1	0.025	0~25	$\pm 0.075$	0.05	80g
151572	BO-2		10~35			83g
151573	BO-3		20~45			85g

CALIPER  
GAUGEBORE  
GAUGEOTHER  
DIAL  
GAUGES

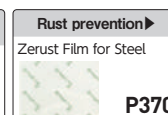
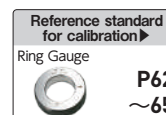
HARDNESS

FILM  
THICKNESS



## DIAL CALIPER GAUGE (INSIDE)

For high accuracy I.D. measurement

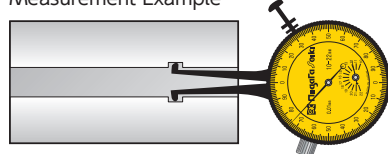


## AI TYPE

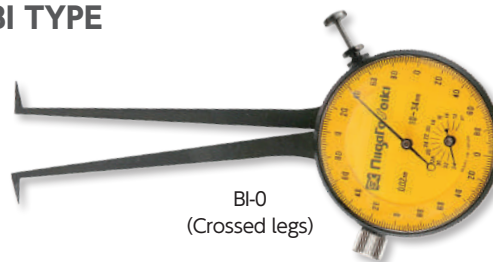
AI-0  
(Crossed legs)

AI-3

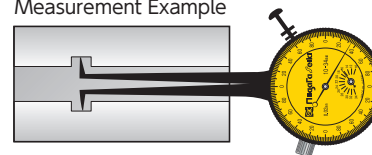
Measurement Example



## BI TYPE

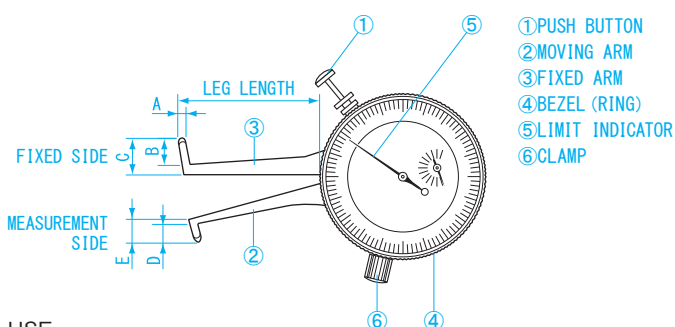
BI-0  
(Crossed legs)

Measurement Example



Units: mm

## ● DIMENSIONS



## USE

- For internal measurement

## MATERIAL

- Body: Steel

## FEATURES

- Ideal for measuring bore size and I.D. of irregular parts

Model No.	Leg Length	A	B	C	D	E
AI-0	41	Tip 1				
AI-1	40	2.3	1.1	2.8	1.1	2.8
AI-2			2.7	4.5	2.3	4.8
AI-3			8	11	4.4	6.7
AI-4			18	21		
AI-5			28	31		
BI-0	85	Tip 1	7	9	7	9
BI-1		2.3	2.6	4.6	2.6	4.6
BI-2			5.1	7.1	4.8	6.8
BI-3			7.5	10	8.6	10.6
BI-4			17.5	20		
BI-5			27.5	30		

※ Probe Tip:  $\phi$  1.6 mm Ball (AI-0 and BI-0 Feature Sharp Edges and Are Hardened)

※ Custom shape product available by special order

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Measurable Arm Length (mm)	Measurable Range (mm)	Accuracy (mm)	Repeatability (mm)	Weight
151540	AI-0	0.01	3~ 9	15 30	3~ 5 5~ 9	$\pm 0.04$	0.02	75g
151541	AI-1		6~18	20 40	6~ 9 9~18			75g
151542	AI-2		10~22	20 40	10~16 16~22			80g
151543	AI-3		20~32	40	20~32			73g
151544	AI-4		30~42	40	30~42			85g
151545	AI-5	0.02	40~52	40	40~52	$\pm 0.06$	0.04	88g
151550	BI-0		10~34	60 80	10~20 20~34			80g
151551	BI-1		10~35	40 80	10~20 20~35			83g
151552	BI-2		20~45	80	20~45			85g
151553	BI-3		30~55	80	30~55			88g
151554	BI-4	0.025	40~65	80	40~65	$\pm 0.075$	0.05	90g
151555	BI-5		50~75	80	50~75			93g



# DIAL CALIPER GAUGE (INSIDE)

Analog type dial caliper. For inner diameter measurement.



Reference standard for calibration▶	Rust prevention▶
Ring Gauge	Zerust Film for Steel
P62 ~65	P370

## CI 型



CI-0  
(Crossed legs)



CI-1B  
(Crossed legs)

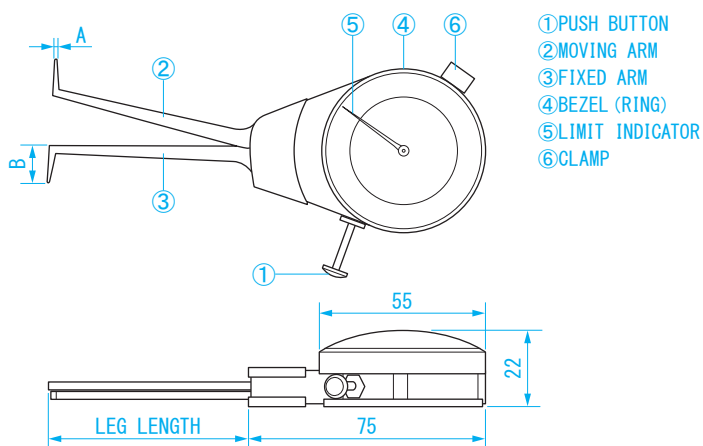


CI-1A



CI-2

## ● DIMENSIONS



Units: mm

Model No.	Leg Length	A	B
CI-0	30	Tip 0.6	4
CI-1A			7.5
CI-1B	64		8
CI-2	66		12.5

※ Probe tip: Knife-edged, hardened

## USE

- For internal measurement

## MATERIAL

- Body: Steel

## FEATURES

- Ideal for hole diameter measurement and internal measurement of complex shape

Order No.	Model No.	Graduation (mm)	Measuring Range (mm)	Measurable Arm Length (mm)	Measurable Range (mm)	Accuracy (mm)	Repeatability (μm)	Weight
151791	CI-0	0.01	5~15	10 30	5~8 8~15	±0.03	0.02	85g
151792	CI-1A		10~20	30	10~20			85g
151793	CI-1B		10~30	50 60	10~20 20~30	±0.05		95g
151794	CI-2		20~40	60	20~40			95g





# S-LINE PRECISION MEASUREMENT PLUG GAUGE HEAD

BTO 0

Easier, more efficient and more accurate hole diameter measurement in mass production.  
Combination use with separately sold holder.

## USE

- Precision hole diameter measurement

## MATERIAL

- Head body: Tool steel (Titanium nitride coating)
- Probe: Carbide coating polished finish  
(Diamond probe is available on request)

## FEATURES

- A special head tailored to the workpiece enables more efficient and accurate measurement of hole diameter
- It is effective for mass production lines and other sites with a fixed size and a large number of inspections
- Titanium coated body for superior durability

## SPECIFICATIONS

- Manufacturable size: Two point measuring head... 6~280mm  
Three point measuring head... 15~100mm
- Repeatability: Less than 1 $\mu$  (When tolerance class is IT8)
- Head hardness: Approx. 2200HV



For GO hole  
Three point  
measuring head



For NOGO hole  
Two point  
measuring head



Diamond probe  
compatible  
※Excluding  
some types

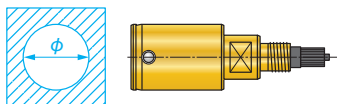


<Combination Example>

Heads are completely built-to-order. Please contact us for details.

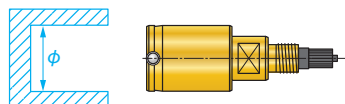
### Standard Type

- ▶ Standard Type for Through Holes.



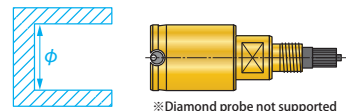
### Short Type

- ▶ Standard Type for Blind Holes.  
※For measurements closer to the bottom surface,  
please select the Bottom Type (SL Type).



### Bottom Type

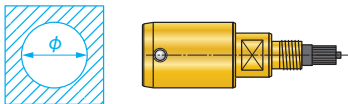
- ▶ Type designed for the deepest  
bottom-side measurements of blind holes.



※Diamond probe not supported

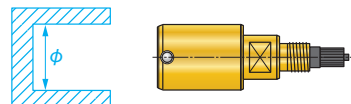
### Automated Measurement (Chamfer) • Standard Type

- ▶ For Through Holes : Features a larger chamfered  
shape to allow easier head insertion.



### Automated Measurement (Chamfer) • Short Type

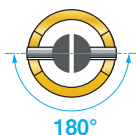
- ▶ For Blind Holes : Features a larger chamfered  
shape to allow easier head insertion.



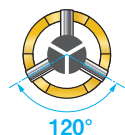
Selectable Based on Environment and Workpiece

Measurement Types and Head Combinations

### Two-Point Measurement Head



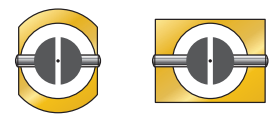
### Three-Point Measurement Head



### Square Parallel Measuring Head



### Parallel Measurement Head

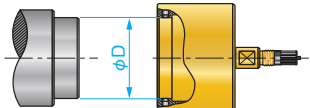


B = 8~40mm B = 40~130mm

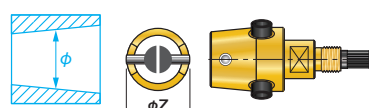
### Depth Stopper Integrated Type



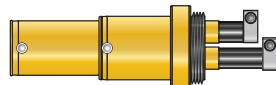
### Outer Diameter Measurement AM



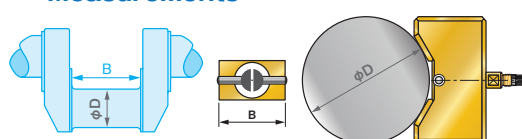
### For Taper Holes KE



### For Multiple Point Measurements ME



### For Crankshaft Parallel Measurements



We also offer  
various special heads.  
Please feel free to  
consult with us.

S-Line Precision Measurement Plug Gauge Series Web Site  
[https://niigataseiki.co.jp/lp/s-line\\_plug\\_gauge/](https://niigataseiki.co.jp/lp/s-line_plug_gauge/)





Easier, more efficient and more accurate hole diameter measurement in mass production.  
Combination use with separately sold head, which are made to order for each factory.

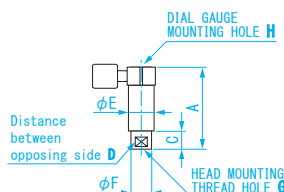


SKP-HM-02-32

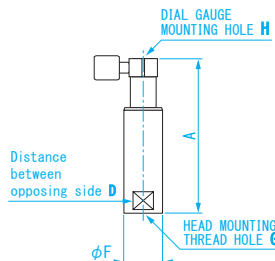


SKP-HM-02-100

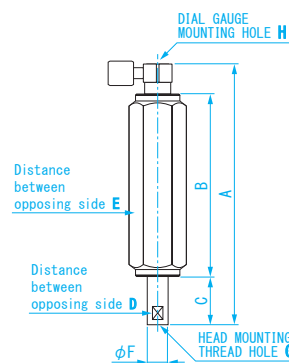
## DIMENSIONS



DIMENSION①



DIMENSION②



DIMENSION③

## USE

- Precision hole diameter measurement

## MATERIAL

- Shaft:  
Full length 32~100mm type...Steel  
Full length 150mm type...Special alloy steel
- Handle: Aluminum

## FEATURES

- Dial gauge holder for precision measurement plug gauge
- Dial gauge with  $\phi 8$  stem diameter can be installed
- Shaft is made of special alloy steel less affected by temperature changes (SKP-HM-02-150, SKP-HM-03-150 only)
- ※Head, dial gauge are sold separately

Units: mm

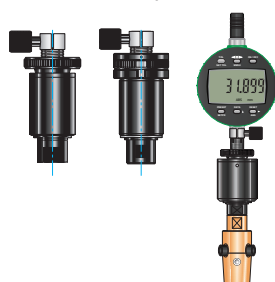
Model No.	Dimensions	A	B	C	D	E	F	G	H
SKP-HM-02-32	①	32	—	7	7	10	8	M6 × P0.75	φ8 H7
SKP-HM-GS-02-50	①	50	—	9.5		19			
SKP-HM-02-50	③	50	33	—					
SKP-HM-02-100	③	100	70	18.5					
SKP-HM-02-150	③	150	70	68.5	13	—	15	M10 × P1.0	
SKP-HM-GS-03-60	②	60	—	—					
SKP-HM-03-60	③	60	38	—					
SKP-HM-03-150	③	150	100	30					

Order No.	Model No.	Corresponding Head Size (mm)	Head Mounting Thread hole diameter	Full Length (mm)	Weight
151881	SKP-HM-02-32	$\phi 6 \sim \phi 20$	M6×P0.75	32	30g
151888	SKP-HM-GS-02-50			50	20g
151882	SKP-HM-02-50			50	40g
151883	SKP-HM-02-100			100	80g
151884	SKP-HM-02-150			150	85g
151885	SKP-HM-GS-03-60	$\phi 15 \sim \phi 280$	M10×P1.0	60	50g
151886	SKP-HM-03-60			60	75g
151887	SKP-HM-03-150			150	130g

## Examples of Optional Accessories Compatible with S-Line Precision Measuring Plug Gauge Heads and Holders

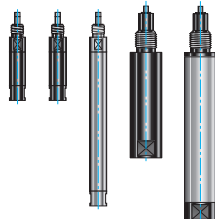
### Centering Holder

Automated Centering Holder for Measurement that corrects axial deviation of the workpiece center, preventing damage to the head or workpiece.



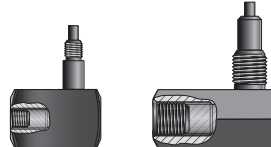
### Extension Rod

For extension in depth direction.



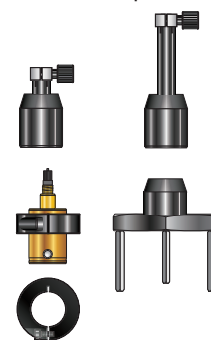
### Right-Angle Extension

For changing the measurement direction to a right angle. Can also be combined with an extension rod.



### Depth Stopper

For measurements at a constant depth.



DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS

FILM THICKNESS





## S-LINE BORE GAUGE

S-line series, high-end model for high-performance.

High precision measurement is possible by using with S-LINE DIAL COMPARATOR GAUGE (separately sold).

T O

Zero pint setting▶

Ring Gauge

P62  
~65Precise measurement with  
0.001 mm accuracy▶

S-Line Dial Comparator



P239

Rust prevention▶

Zerust Film for Steel



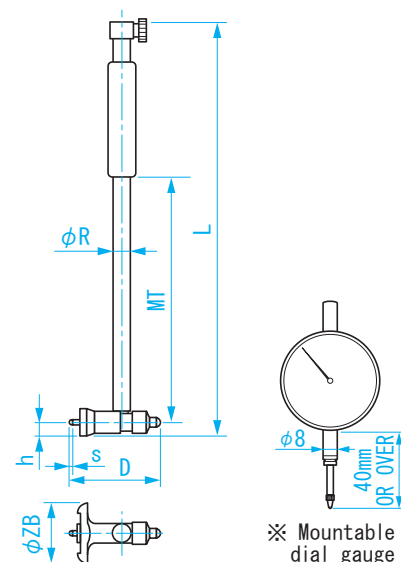
P370



SCDI-100S



## ● DIMENSIONS

※ Mountable  
dial gauge

SCDI-100S

## USE

- For bore measurement

## MATERIAL

- Body: Steel
- Probe: Ruby

## FEATURES

- For high precision bore measurement
- High precision measurement is possible by using with S-LINE DIAL COMPARATOR GAUGE (separately sold)

## SPECIFICATIONS

- Stem dia. of mountable measuring instrument:  $\phi 8\text{mm}$
- Mountable dial gauge: Refer to the DIMENSIONS

※ Measuring device such as dial gauge not included

Units: mm

Model No.	$\phi R$	L	MT	h	s	$\phi ZB$
SCDI-8S	5	165	100	2.6	0.5	5.2
SCDI-12S	5	166	100	3.25	0.7	6.5
SCDI-20S	8	199	114	4.5	0.9	9
SCDI-35S	8	201	116	5.4	1.3	14.8
SCDI-60S	12	294	179	8.5	1.3	28
SCDI-100S	12	295	179	8.5	1.4	45
SCDI-160S	18	367	235	11.5	1.6	75

\* Dial gauge (separately sold) not included




Order No.	Model No.	Measuring Range D (mm)	Wide Range Accuracy ( $\mu\text{m}$ )	Repeatability* ( $\mu\text{m}$ )	Effective Stroke of Contact Point (mm)	Interchangeable Anvil	Interchangeable Washer	Weight
151841	SCDI-8S	6- 8	3	0.5	0.5	7 pcs	—	65g
151842	SCDI-12S	8- 12			0.7	9 pcs	—	65g
151843	SCDI-20S	12- 20			0.9	9 pcs	1 pc	95g
151844	SCDI-35S	18- 35			1.3	9 pcs	2 pcs	85g
151845	SCDI-60S	35- 60			1.3	6 pcs	3 pcs	175g
151846	SCDI-100S	50-100			1.4	11 pcs	3 pcs	190g
151847	SCDI-160S	100-160			1.6	7 pcs	4 pcs	530g



## DIGITAL BORE GAUGE



Digital gauge included.  
Good performance and reasonable price.

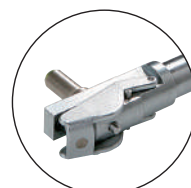
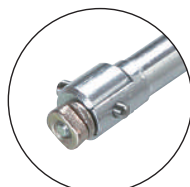
Zero pint setting▶ Ring Gauge  <b>P62</b> ~65	Replacement part▶ Parts for Bore Gauge  <b>P267</b>	Rust prevention▶ Zerust Film for Steel  <b>P370</b>
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## Digital indicator included

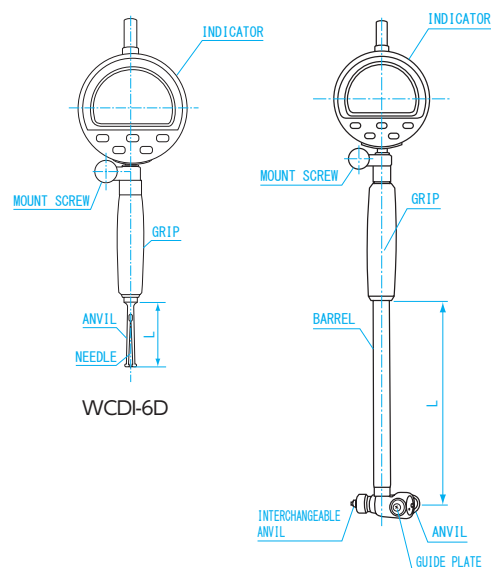


WCDI-6D

WCDI-160D

WCDI-6D Measuring Head  
[Two point measurement]WCDI-18D  
Measuring HeadWCDI-10D  
Measuring HeadWCDI-35D  
Measuring HeadWCDI-50D • 100D • 160D  
Measuring Head

## ● DIMENSIONS • PARTS NAME Units: mm



WCDI-6D

## USE

- Bore measurement

## MATERIAL

- Body: Steel

## FEATURES

- Digital indicator included
- Digital display for easy reading

## POWER

- One CR2032 (Lithium) battery included for testing

## Parts for Bore Gauge⇒P267

※ Quantization Error ( ± 1 digit) not included  
\* Including attached digital gauge

Order No.	Model No.	Measuring Range (mm)	Measurement Depth L (mm)	Weight
151868	WCDI-6D	4-6	34	255g
151869	WCDI-10D	6-10	48	265g
151870	WCDI-18D	10-18	95	300g
151871	WCDI-35D	18-35	150	360g
151872	WCDI-50D	35-50	150	450g
151873	WCDI-100D	50-100	150	475g
151874	WCDI-160D	50-160	150	570g

Resolution (mm)	Error over Entire Range* (μm)*	Adjacent Error* (μm)*	Repeatability* (μm)*	Effective Stroke of Contact Point (mm)	Measuring Head	Interchangeable Anvil	Interchangeable Washer
0.002	10	5	3	0.6	[Two point measurement] 4pcs (0.5mm step)	—	None
0.002	12	5	3	0.7	—	9 pcs (0.5mm step)	None
0.002	12	5	3	0.9	—	9 pcs (1.0mm step)	0.5mm 1pc
0.002	15	5	3	1.2	—	9 pcs (2.0mm step)	0.5•1mm 1pc each
0.002	15	5	3	1.2	—	4 pcs (5.0mm step)	
0.002	18	6	3	1.6	—	11 pcs (5.0mm step)	0.5•1•2•3mm
0.002	18	6	3	1.6	—	12 pcs (5.0mm step) 1pc extension anvil	1pc each

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE



CALIPER GAUGE

BORE GAUGE

OTHER DIAL GAUGES

HARDNESS




FILM THICKNESS



## DIAL BORE GAUGE



Dial gauge included.  
Good performance and reasonable price.

Zero pint setting▶ Ring Gauge  <b>P62</b> ~65	Replacement part▶ Parts for Bore Gauge  <b>P267</b>	Rust prevention▶ Zerust Film for Steel  <b>P370</b>
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## Dial gauge included



WCDI-6



WCDI-100

WCDI-6 Measuring Head  
[Two point measurement]

WCDI-18 Measuring Head



WCDI-10 Measuring Head



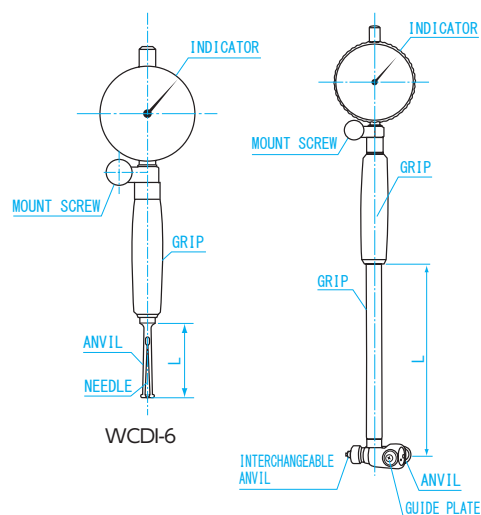
WCDI-35 Measuring Head



WCDI-50 • 100 • 160 Measuring Head



## ● DIMENSIONS • PARTS NAME Units: mm



## USE

- Bore measurement

## MATERIAL

- Body: Steel

## FEATURES

- Dial gauge included

## Parts for Bore Gauge⇒P267

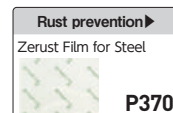
\* Including attached dial gauge

Order No.	Model No.	Measuring Range (mm)	Measurement Depth L (mm)	Weight
151861	WCDI-6	4~6	34	175g
151862	WCDI-10	6~10	48	180g
151863	WCDI-18	10~18	95	195g
151864	WCDI-35	18~35	130	300g
151865	WCDI-50	35~ 50	150	440g
151866	WCDI-100	50~100	150	465g
151867	WCDI-160	50~160	150	540g

Resolution (mm)	Error over Entire Range* (μm)*	Adjacent Error* (μm)*	Repeatability* (μm)*	Effective Stroke of Contact Point (mm)	Measuring Head	Interchangeable Anvil	Interchangeable Washer
0.01	10	5	3	0.6	[Two point measurement] 4 pcs (0.5mm step)	—	None
0.01	12	5	3	0.7	—	9 pcs (0.5mm step)	None
0.01	12	5	3	0.9	—	9 pcs (1.0mm step)	0.5mm 1 pc
0.01	15	5	3	1.0	—	7 pcs (2.5mm step)	None
0.01	15	5	3	1.2	—	4 pcs (5.0mm step)	—
0.01	18	6	3	1.6	—	11 pcs (5.0mm step)	0.5•1•2•3mm
0.01	18	6	3	1.6	—	12 pcs (5.0mm step) 1 pc extension anvil	1 pc each



## PARTS FOR BORE GAUGE



## ■ INTERCHANGEABLE ANVIL

Order No.	Model No.	Size (mm)	applicable Model No.
151600	AC-1060	6.0	WCDI-10D
151601	AC-1065	6.5	
151602	AC-1070	7.0	WCDI-10
151603	AC-1075	7.5	•Ex-model No.
151604	AC-1080	8.0	
151605	AC-1085	8.5	CDI-10D
151606	AC-1090	9.0	CDI-10
151607	AC-1095	9.5	WCDI-18D
151608	AC-10100	10.0	
151609	AC-1810	10.0	WCDI-18
151610	AC-1811	11.0	•Ex-model No.
151611	AC-1812	12.0	
151612	AC-1813	13.0	CDI-18D
151613	AC-1814	14.0	CDI-18
151614	AC-1815	15.0	•Ex-model No.
151615	AC-1816	16.0	
151616	AC-1817	17.0	WCDI-35D
151617	AC-1818	18.0	•Ex-model No.
151641	AC-35180D	18.0	
151642	AC-35200D	20.0	CDI-35D
151643	AC-35220D	22.0	•Ex-model No.
151644	AC-35240D	24.0	
151645	AC-35260D	26.0	WCDI-35
151646	AC-35280D	28.0	•Ex-model No.
151647	AC-35300D	30.0	
151648	AC-35320D	32.0	CDI-35
151649	AC-35340D	34.0	•Ex-model No.
151618	AC-35180	18.0	
151619	AC-35205	20.5	WCDI-35
151620	AC-35230	23.0	•Ex-model No.
151621	AC-35255	25.5	
151622	AC-35280	28.0	CDI-35
151623	AC-35305	30.5	•Ex-model No.
151624	AC-35330	33.0	

## ■ INTERCHANGEABLE ANVIL

Order No.	Model No.	Size (mm)	applicable Model No.
151625	AC-5035	35.0	•Ex-model No.
151626	AC-5040	40.0	
151627	AC-5045	45.0	WCDI-50D
151628	AC-5050	50.0	WCDI-50
151629	AC-10050	50.0	•Ex-model No.
151630	AC-10055	55.0	
151631	AC-10060	60.0	WCDI-100D
151632	AC-10065	65.0	WCDI-160D
151633	AC-10070	70.0	WCDI-100
151634	AC-10075	75.0	WCDI-160
151635	AC-10080	80.0	CDI-100D
151636	AC-10085	85.0	CDI-100
151637	AC-10090	90.0	CDI-160D
151638	AC-10095	95.0	CDI-160
151639	AC-16100	100.0	•Ex-model No.
151640	AC-16105	105.0	

## ■ EXTENSIONAL ANVIL

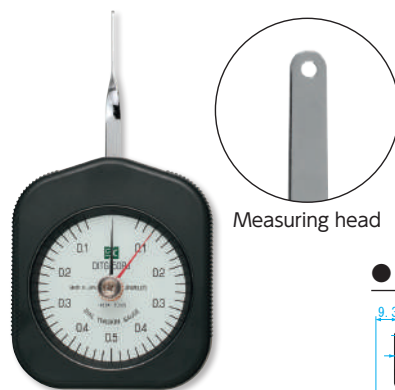
Order No.	Model No.	Size (mm)	applicable Model No.
151650	ALC-55	55.0	WCDI-160D WCDI-160
			•Ex-model No. CDI-160D CDI-160

## ■ WASHERS

Order No.	Model No.	Size (mm)	applicable Model No.
151660	W-1805	0.5	WCDI-18 CDI-18 WCDI-18D CDI-18D
151661	W-5005	0.5	•Ex-model No. WCDI-35D
151662	W-5010	1.0	•Ex-model No. WCDI-50 WCDI-100 WCDI-160 CDI-50 CDI-100 CDI-160
151663	W-5020	2.0	•Ex-model No. WCDI-50D WCDI-100D WCDI-160D CDI-50D CDI-100D CDI-160D
151664	W-5030	3.0	•Ex-model No. WCDI-50D WCDI-100D WCDI-160D CDI-50D CDI-100D CDI-160D

## DIAL TENSION GAUGE

Measures button pressing force and spring tension

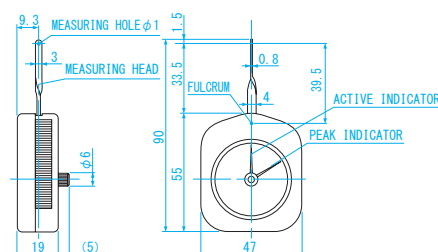


DITG-50PJ

Measuring head

## ● DIMENSIONS

Units: mm



## USE

- Measuring button pressing force and spring tension

## MATERIAL

- Main body: ABS
- Measuring head: Steel

## FEATURES

- Peak indicator type for easily reading peak force

Order No.	Model No.	Range	Resolution	Accuracy	Reading	Weight
151525	DITG-30PJ	30 ~ 300mN	10mN	± 0.5 graduation	30-300-30	55g
151526	DITG-50PJ	0.06 ~ 0.5N	0.02N		0.06-0.5-0.06	
151527	DITG-100PJ	0.1 ~ 1N	0.05N		0.1-1-0.1	
151528	DITG-150PJ	0.15 ~ 1.5N	0.05N		0.15-1.5-0.15	
151529	DITG-300PJ	0.3 ~ 3N	0.1N		0.3-3-0.3	
151530	DITG-500PJ	0.6 ~ 5N	0.2N		0.6-5-0.6	



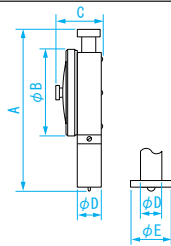
## DUROMETER

Measure hardness of rubber or plastic. Conforms to JIS, ISO standards.



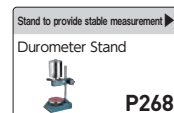
ADM-A

## ● DIMENSIONS



ADM-A - ADM-D ADM-E Units: mm

Model No.	A	B	C	D	E
ADM-A	113	60	31	18	-
ADM-D					
ADM-E				16	31



P268



P370



## USE

- Checking hardness of material such as rubber or plastic

## MATERIAL

- Body: Aluminum
- Presser foot: HM35 (SKH55) tool steel

## FEATURES

- Presser foot geometry and spring force in compliance with the following standards:
- JIS K 6253-3: 2012 (Rubber, vulcanized or thermoplastic -- Determination of hardness)
- ISO 7619-1: 2010

## ACCESSORIES

- Block to check wear (ADM-A, ADM-D)

Model No.	ADM-A	ADM-D	ADM-E
Hardness Range	A20 ~ A90	Greater than A90	Less than A20
Material for test	Rubber, Soft plastic, Tires, Medium hardness elastomers	Hard rubber, Plastic, Ebonite rubber, High hardness elastomers	Soft rubber, Eraser, Roll film, Low hardness elastomers
Specimen thickness	6.0mm or greater	6.0mm or greater	10.0mm or greater
Display accuracy	± 1 gradation		

DIAL GAUGE

DIAL INDICATOR

MAGNETIC BASE

THICKNESS GAUGE

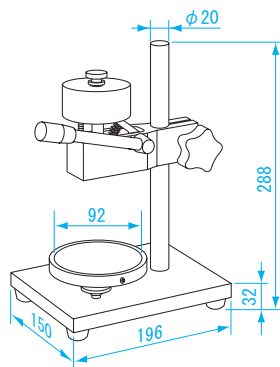
Order No.	Model No.	Weight
151721	ADM-A	160g
151722	ADM-D	160g
151723	ADM-E	170g

## DUROMETER STAND

Stand to provide stable measurements for durometer testing

## ● DIMENSIONS

Units: mm



DMS-AE



## USE

- Stand for holding durometer

## MATERIAL

- Stem & weight: Iron
- Base: Cast iron

## FEATURES

- When durometer is attached, provides constant pressure for consistent measurements

Order No.	Model No.	Applicable Durometer	Weight
151713	DMS-AE	ADM-A, ADM-E	7.3kg
151714	DMS-D	ADM-D	11.4kg



# LEEB HARDNESS TESTER **NEW!**

Portable hardness tester for measuring hardness of metals.

With auto-angle correction function for measuring 360° in any direction.



LHT-400plus



LHT-B



LHT-BR



LHT-D-S



LHT-DL-S

## USE

- For measuring hardness of metal

## MATERIAL

- Body: ABS resin
- Probe: Tungsten (hardness HV 1600)

## FEATURES

- For general metal hardness testing. Wide measuring range which is especially suitable for testing hardness of large objects.
- Can be converted to display in any of 7 hardness scale •HRC, HV, HL, HRB, HS, HB and  $\sigma B$
- Average can be automatically calculated between 2 to 8 measurements
- Measured value recorded can be easily edited on PC by connecting the USB cable
- Carrying case included

## SPECIFICATIONS

- Measurable material: •Steel, cast steel •Alloy tool steel •Stainless steel, high temperature steel •Cast iron •Ductile iron •Aluminum alloy •Brass •Bronze •Copper

## ACCESSORIES

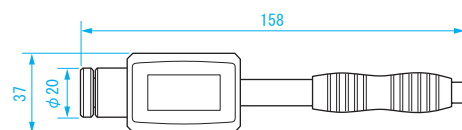
- Master block
- AC adapter (AC100V~240V)
- USB cable
- Cleaning brush
- Measuring ring (small)
- Carrying case

## POWER

- AC adapter for battery charge (lithium battery)

## ● DIMENSION

Units: mm



DL TYPE PROBE (LHT-DL-S)

Order No.	Model No.	Measuring Range	Accuracy	Weight
151756	LHT-400plus	Minimum 170 to Maximum 878 HL	Within $\pm 19$ HL	90g

## ■ Optional accessories : D TYPE PROBE [Standard probe provided with LHT-400 plus]

Order No.	Model No.	Weight
151755	LHT-D-S	5g

## ■ Optional accessories : DL TYPE PROBE [Suitable for measuring hardness in narrow space such as bottom of groove or in a large gear]

Order No.	Model No.	Weight
151754	LHT-DL-S	25g

## ■ Optional accessories : Master block [Standard probe provided with LHT-400 plus]

Order No.	Model No.	Weight
<b>NEW!</b> 151757	LHT-B	2.9kg

## ■ Optional accessories : Measuring ring [Standard probe provided with LHT-400 plus]

Order No.	Model No.	Weight
<b>NEW!</b> 151758	LHT-BR	3g

DIAL  
GAUGEDIAL  
INDICATORMAGNETIC  
BASETHICKNESS  
GAUGECALIPER  
GAUGEBORE  
GAUGEOTHER  
DIAL  
GAUGES

HARDNESS

FILM  
THICKNESS



# FILM THICKNESS METER FOR Fe AND NON-FE MATERIALS

Compact and lightweight for coating thickness measurement.  
Can rotate 90° for measuring tight spaces such as inside pipe.



Model No.	Measurable basis material	Measurable coating material
FTM-50FE for Fe materials	<ul style="list-style-type: none"> <li>● Ferrous material thickness more than 300 μm (Magnetic material such as iron except nickel)</li> </ul>	<ul style="list-style-type: none"> <li>● Measurable max. 5.0mm of all kind of non-magnetic coating on ferrous material (paints, varnish, synthetic coating, enamel, rubber, ceramic, zinc plating and etc.)</li> </ul>
FTM-52FN for Fe&Non-Fe materials	<ul style="list-style-type: none"> <li>● Ferrous material thickness more than 300 μm (Magnetic material such as iron except nickel)</li> <li>● Non-ferrous material thickness more than 50 μm (Conductive material such as aluminum, brass, bronze, zinc, lead, copper etc.)</li> </ul>	<ul style="list-style-type: none"> <li>● Measurable max. 5.0mm of all kind of non-magnetic coating on ferrous material (paints, varnish, synthetic coating, enamel, rubber, ceramic, zinc plating and etc.)</li> <li>● Measurable max. 2.0mm of non-conductive coating on non-ferrous material (paints, varnish, synthetic coating, almite, rubber and etc.)</li> </ul>

## USE

- Thickness measurement of coated surface

## MATERIAL

- Probe: Ruby

## FEATURES

- Automatically determines the object to be measured
- Probe rotates and it allows to measure inside of pipe or measure a part that is difficult to measure
- It can be easily operated with one hand at high places and narrow places
- Auto power off function.

## SPECIFICATIONS

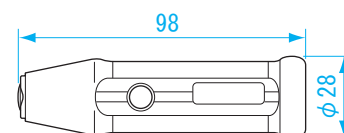
- Accuracy...Under 300 μm: ±2 μm  
300~1000 μm: ±1 %  
1000~2000 μm: ±3 %  
2000 μm or over: ±5 %

## POWER

- One AA battery (not included)

## DIMENSIONS

Units: mm



Order No.	Model No.	Measurement Method	Measuring Range (μm)	Resolution	Weight
152081	FTM-50FE	Electromagnetic Induction	Fe materials: 0 ~ 5000	Under 100 μm: 0.1 μm Under 1000 μm: 1 μm 1.00mm or over: 0.01mm	72g
152082	FTM-52FN	Dual Type (Eddy Current/Electromagnetic Induction)	Fe materials: 0 ~ 5000 Non-Fe materials: 0 ~ 2000		