

ABSOLUTE Digimatic Indicators ID-SX

Functions	Series 543
Digimatic data output	●
ON/OFF	●
ORIGIN (ABS-Zero)	●
Counting direction switchable	●

Specifications

Display	LCD, character height 9 mm
Max. response speed	Unlimited
Alarm	Low voltage, counting value composition error
Stem Ø	8 mm
Contact point	Carbide ball, thread M 2,5 x 0,45 mm
Power supply	1 battery SR-44
Battery life	Approx. 18000 hours (0,001 mm type), approx. 20000 hours (0,01 mm type)

Optional accessories

No.	Description
905409	Digimatic Cable, Flat Straight Type, 2m
905338	Digimatic Cable, Flat Straight Type, 1m
06AFM380F	USB Input Tool Direct (Digimatic USB), Digi/Digi2, Flat Straight Type
264-623	U-WAVE fit, Buzzer Type, Wireless Transmitter for Micrometer
264-622	U-WAVE fit, IP67 Type, Wireless Transmitter for Micrometer
264-627	U-WAVE fit Bluetooth, Buzzer Type, Wireless Transmitter for Micrometer
264-626	U-WAVE fit Bluetooth, IP67 Type, Wireless Transmitter for Micrometer
02AZF670	U-WAVE fit Transmitter Mounting Plate, for ID-C and ID-S Digital Indicator
02AZD790F	U-WAVE-T Connection Cable F, Flat Straight Type
21JZA295	Spindle Lifting Cable, for Indicator, L=500mm
21EZA198	Spindle Lifting Lever, for Digital Indicator, A-Type Dial Indicator Series 2/3/4
21EZA105	Spindle Lifting Knob, for 12,5mm, Metric
238774	Silicon rubber boot for ID-C, ID-N, ID-S

For USB Input Tool Direct cable: a footswitch (no. 937179T), a USB- footswitch adapter (no. 06ADV384) and USB-ITPAK Software (no. 06AFM386) are required.
238774 only for 543-794B

Consumable spares

No.	Description
938882	Battery SR44 1.5V
901312	Contact Element Ball Point, M2,5x0,45, 7,3mm Length, Carbide, Metric
21EAA423	NBR Rubber Boot, Digital Gauge Series 543

21EAA423 only for 543-794B



21EZA198



21JZA295

Series 543

This is a standard model of indicator that is reliable and easy to use. The ABSOLUTE Digimatic Indicator ID-S offers you the following benefits:

- The ABSOLUTE sensor means you don't have to carry out origin setting every time you power it on, saving you time and hassle.
- You can access all functions by using the large, user-friendly buttons on the front of the indicator.
- Large character height of 9 mm provides good readability.
- Exceptional battery life.



543-781B



543-790B

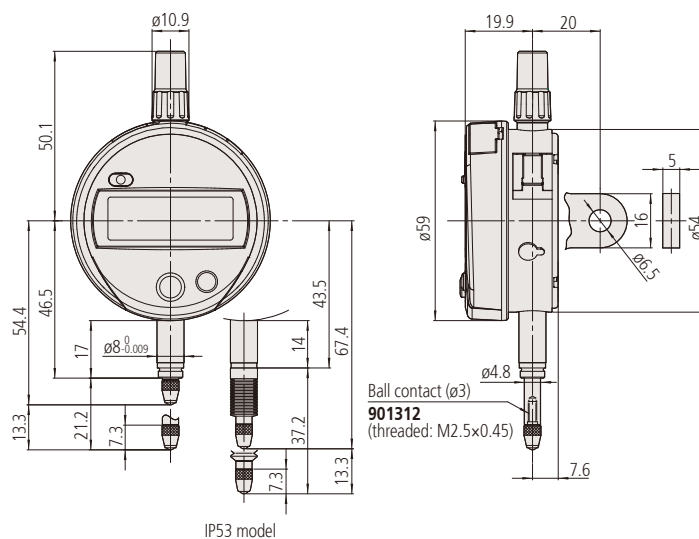


543-794B

Metric

No.	No. Lug back plate	Range	Digital step	Max. Permissible Error E MPE	H MPE (Hysteresis)	R MPE (Repeatability)	Measuring force [N]	Protection	Mass lug/plain [g]
543-781B	543-781	12,7 mm	0,01 mm	0,02 mm	0,02 mm	0,01 mm	≤ 1,5	IP42	150/140
543-790B	543-790	12,7 mm	0,001 mm	0,003 mm	0,002 mm	0,002 mm	≤ 1,5	IP42	150/140
543-794B	543-794	12,7 mm	0,001 mm	0,003 mm	0,002 mm	0,002 mm	≤ 2,5	IP53	155/155

No. with "B": Flat back plate



IP53 model

Ball contact (ø3)
901312
(threaded: M2.5x0.45)

ABSOLUTE Digimatic Indicators Bore Gauge ID-C

Series 543

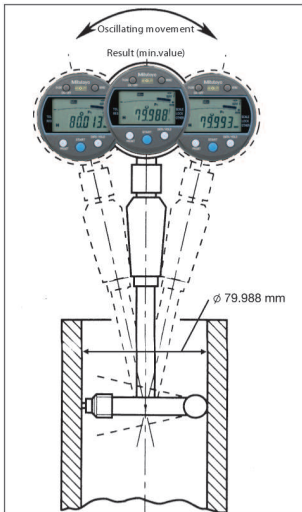
This indicator is designed for inside diameter measurement applications on bore gauges

It offers the following benefits:

- Minimum value holding function that allows you to easily detect a hole diameter
- Analogue bar graph in the display (12 different scales switchable)
- The analogue bar graph enhances usability by adding a dial gauge “feel” to digital measurement
- GO/±NG tolerance judgement function
- A fast measurement frequency mode(detection cycle 20ms or 50times/s) is selectable to measure in the peak detection mode more reliably
- Easy indicator setup via a setup menu
- A USB interface box can be used to set up the indicator from PC via dedicated software

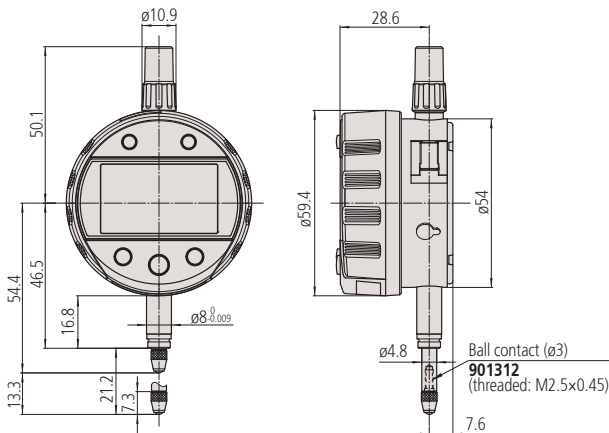


543-310B



Metric

No.	Mass [g]	Range	Digital step	Max. Permissible Error E MPE	H MPE (Hysteresis)	R MPE (Repeatability)	Measuring force [N]	Protection
543-310B	170	12,7 mm	0,001/0,01 mm	0,003 mm	0,002 mm	0,002 mm	≤ 1,5	IP42



ABSOLUTE®



Functions	Series 543
DATA/HOLD	●
PRESET 3x	●
MIN Value Hold	●
Digimatic data output ON/OFF	●
Analog bar resolution switchable	●
Function lock	●
GO/±NG judgement	●
Fast measurement mode	●

Specifications

Display	LCD, character height: 8 mm, rotatable 330°
Max. response speed	Unlimited
Measurement frequency (MAX/MIN/RANGE)	Standard mode: 10 times/s fast mode: 50 times/s (plunger speed max. 50 µm/s for peak measurement)
Alarm	Low voltage, composition error, overflow error, tolerance limit setting error
Stem Ø	8 mm
Contact point	Carbide ball, thread M 2,5 x 0,45 mm
Power supply	1 Battery CR-2032
Battery life	Standard mode: approx. 1 year fast mode: approx. 4,5 month

Optional accessories

No.	Description
905338	Digimatic Cable, Flat Straight Type, 1m
905409	Digimatic Cable, Flat Straight Type, 2m
06AFM380F	USB Input Tool Direct (Digimatic USB), Digi/Digi2, Flat Straight Type
264-623	U-WAVE fit, Buzzer Type, Wireless Transmitter for Micrometer
264-622	U-WAVE fit, IP67 Type, Wireless Transmitter for Micrometer
264-627	U-WAVE fit Bluetooth, Buzzer Type, Wireless Transmitter for Micrometer
264-626	U-WAVE fit Bluetooth, IP67 Type, Wireless Transmitter for Micrometer
02AZF670	U-WAVE fit Transmitter Mounting Plate, for ID-C and ID-S Digital Indicator
02AZD880G	U-WAVE-T, Buzzer Type, Wireless Transmitter
02AZD730G	U-WAVE-T, IP67 Type, Wireless Transmitter
02AZE200	U-WAVE Transmitter Mounting Plate, Universal Type
02AZD790F	U-WAVE-T Connection Cable F, Flat Straight Type
21EZA313	USB Interface for PC Setup, ID-C Indicator

Consumable spares

No.	Description
055AA217D	Lithium battery CR-2032, 1 pcs.
901312	Contact Element Ball Point, M2,5x0,45, 7,3mm Length, Carbide, Metric

* if the detecting speed is >50 µm/s the peak value may not be displayed correctly.

ABSOLUTE Digimatic Indicators ID-N

Series 543

This is a slim back-plunger model that is highly resilient and robust. The ABSOLUTE Digimatic Indicator ID-N offers you the following benefits:

- It slim body design is ideal for multi-point measurements.
- The ABSOLUTE sensor means you don't have to carry out origin setting every time you power it on, saving you time and hassle.
- It has excellent resistance against water and dust (IP66 protection level) allowing you to use it in machining situations that include splashing coolant fluid.
- Switchable display orientation gives you more mounting options.
- You can perform GO/±NG judgement by setting the upper and lower tolerances.



543-575

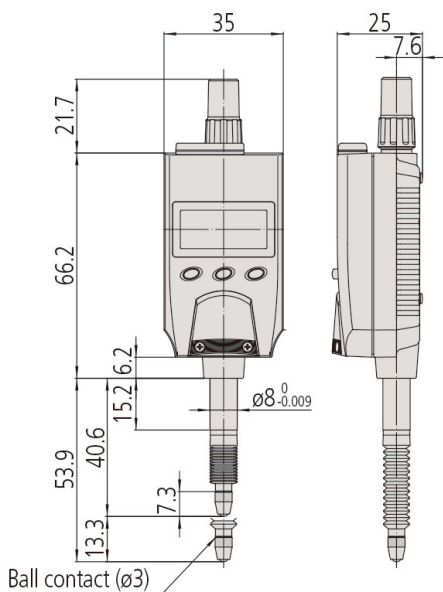


**Width of 35 mm instead
of 60 as standard
Digimatic indicators**

Flexible installation options switchable display orientation (overhead use)

Metric

No.	Range	Digital step	Max. Permissible Error E MPE	H MPE (Hysteresis)	R MPE (Repeatability)	Measuring force [N]	Protection	Mass [g]
543-570	12,7 mm	0,01 mm	0,02 mm	0,02 mm	0,01 mm	≤2,5 N	IP66	130
543-575	12,7 mm	0,001/0,01 mm	0,003 mm	0,002 mm	0,002 mm	≤2,5 N	IP66	130



Ball contact (ø3)
901312
(thread: M2.5×0.45)



ABSOLUTE®
IP66

Functions	Series 543
DATA/HOLD	
Digimatic data output	
ON/OFF	
External	
PRESET / ZERO	
PRESET	
GO/±NG judgement	
Counting direction switchable	

Specifications

Display	LCD, character height: 6,2 mm
Max. response speed	Unlimited
Alarm	Low voltage, counting value composition error, overflow error, tolerance limit setting error
Stem Ø	8 mm
Contact point	Carbide ball, thread M 2,5 x 0,45 mm
Power supply	1 battery SR-44
Battery life	Approx. 7000 hours

Optional accessories

No.	Description
21EAA194	Digimatic Cable for ID-N/ ID-B 1m
21EAA190	Digimatic Cable for ID-N/ ID-B 2m
06AFM380G	USB Input Tool Direct (Digimatic USB), Digi/Digi2, Flat Straight IP Type
264-623	U-WAVE fit, Buzzer Type, Wireless Transmitter for Micrometer
264-622	U-WAVE fit, IP67 Type, Wireless Transmitter for Micrometer
264-627	U-WAVE fit Bluetooth, Buzzer Type, Wireless Transmitter for Micrometer
264-626	U-WAVE fit Bluetooth, IP67 Type, Wireless Transmitter for Micrometer
02AZF675	U-WAVE fit Transmitter Mounting Plate, for ID-N Digital Indicator
02AZD880G	U-WAVE-T, Buzzer Type, Wireless Transmitter
02AZD730G	U-WAVE-T, IP67 Type, Wireless Transmitter
02AZE200	U-WAVE Transmitter Mounting Plate, Universal Type
02AZD790G	U-WAVE-T Connection Cable G, Flat Straight IP Type
21EAA210	Digimatic Cable for External Preset/ Zero, 1 m, ID-N/ID-B Indicator
21EAA211	Digimatic Cable for External Preset/ Zero, 2 m, ID-N/ID-B Indicator
21EZA105	Spindle Lifting Knob, for 12,5mm, Metric
21EZA145	Back Plate with Center Lug ISO Type, for ID-N/ID-B Indicator
238774	Silicon rubber boot for ID-C, ID-N, ID-S

Consumable spares

No.	Description
938882	Battery SR44 1.5V
901312	Contact Element Ball Point, M2,5x0,45, 7,3mm Length, Carbide, Metric
21EAA423	NBR Rubber Boot, Digital Gauge Series 543



194EAA210

Specifications

Scale	Electrostatic capacitance-type ABSOLUTE linear encoder
Max. response speed	Unlimited (measuring by scanning cannot be performed)
Contact point	Ø3 mm carbide ball thread : M 2,5 x 0,45 mm
Cable length	2 m
Output signal	Digimatic
Environmental conditions	0 °C to 40 °C (20 % to 80 % rel. humidity, no condensation)
Bearing type	Slide bearing
Digital step	0,01 mm

Optional accessories

No.	Description
02ADF640	Extension Adaptor, for SPC Cables.
936937	Digimatic Cable, Flat 10-Pin Type, 1m
965014	Digimatic Cable, Flat 10-Pin Type, 2m
903594	Air Driving Device, for Indicator
542-007D	Display Unit EC-Counter, CEE, for Digimatic Gauges
542-016	Linear Gauge Counter EG, for Linear Gauge LGS, LGD, Scale Units
542-093-2	Linear Gauge Counter EB, for LGS, LGD, Scale Units
542-072D	Linear Gauge Counter EH, for LGS, LGD, Scale Units
542-064	Linear Gauge Counter EV-D, for LGS, LGD, Scale Units
63AAA033	Digimatic Interface DMX-8/2, 8x Digimatic Input, Serial D-SUB 9 Connector
63AAA026	Digimatic Interface DMX-16, 16x Digimatic Input, Serial D-SUB 9 Connector
63AAA106	Digimatic Interface DMX-16C, 16x Digimatic Input, Serial D-SUB 9 Connector

Consumable spares

No.	Description
238774	Silicon rubber boot for ID-C, ID-N, ID-S

Specifications

Throttle	Interior Ø 2,5 mm Exterior Ø 3,2 mm
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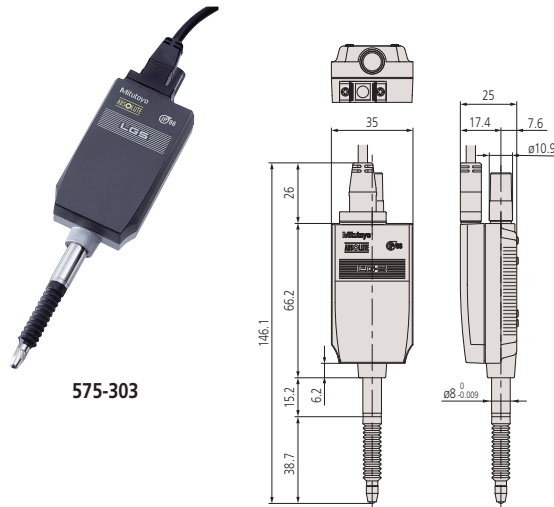


Refer to the Linear Gauge documentation for more details

ABSOLUTE Digimatic Linear Gauge LGS Series

The LGS is a compact ABS linear gauge that offers you the following benefits:

- Its ABSOLUTE Digimatic data output and IP-66 protection class give you best-of-breed technology.



Metric

No.	Range [mm]	Accuracy	Measuring force	Stem Ø	Direction of counting	Mass [g]
575-303	0 - 12.7	15 µm	2 N with spindle down, 1,8 N spindle horizontal, 1,6 N spindle upwards	8 mm	positive	190

*1 Spindle DOWN/Horizontal/UP

Air Drive Unit

- Provides smooth lifting and lowering of the contact point of a gauge by pneumatic cylinder.
- The speed of lift can be regulated by the throttle on the remote cylinder.

No.	Range [mm]	Remarks	Suitable for gage model	Air supply [MPa]	Mass [g]
903594	10	Need air filter, regulator and lubricator	LGS	0,5	60

