

ABS Digimatic Indicator ID-C

SPECIFICATIONS

Inch/Metric ISO/JIS Type and ANSI/AGD Type

Order No.	Measuring range	Accuracy**1	Hysteresis*	Repeatability*	Measuring force	Mass	Remarks
Resolution .00005"/.0001"/.0005"/0.001mm/0.01mm							
543-391	543-391B	.5"	±.00010"/0.003mm	.00010"/0.002mm	.00010"/0.002mm	1.5N or less	170g —
543-392	543-392B	.5"	±.00010"/0.003mm	.00010"/0.002mm	.00010"/0.002mm	1.5N or less	170g —
543-395	543-395B	.5"	±.00010"/0.003mm	.00010"/0.002mm	.00010"/0.002mm	0.7, 0.6, 0.4N or less	170g Low measuring force
543-396	543-396B	.5"	±.00010"/0.003mm	.00010"/0.002mm	.00010"/0.002mm	0.7, 0.6, 0.4N or less	170g Low measuring force
—	543-471B	1"	±.00010"/0.003mm	.00010"/0.002mm	.00010"/0.002mm	1.8N or less	190g —
—	543-472B	1"	±.00010"/0.003mm	.00010"/0.002mm	.00010"/0.002mm	1.8N or less	190g —
—	543-491B	2"	±.00020"/0.005mm	.00010"/0.002mm	.00010"/0.002mm	2.3N or less	260g —
—	543-492B	2"	±.00020"/0.005mm	.00010"/0.002mm	.00010"/0.002mm	2.3N or less	260g —
Resolution .0005"/0.01mm							
543-401	543-401B	.5"	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	0.9N or less	170g —
543-402	543-402B	.5"	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	0.9N or less	170g —
543-405	543-405B	.5"	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	0.5, 0.4, 0.3, 0.2N or less	170g Low measuring force
543-406	543-406B	.5"	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	0.5, 0.4, 0.3, 0.2N or less	170g Low measuring force
—	543-475B	1"	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	1.8N or less	190g —
—	543-476B	1"	±.0010"/0.02mm	.0010"/0.02mm	.0005"/0.01mm	1.8N or less	190g —
—	543-495B	2"	±.0015"/0.04mm	.0010"/0.02mm	.0005"/0.01mm	2.3N or less	260g —
—	543-496B	2"	±.0015"/0.04mm	.0010"/0.02mm	.0005"/0.01mm	2.3N or less	260g —

Metric ISO/JIS Type

Order No.	Measuring range	Accuracy**1	Hysteresis*	Repeatability*	Measuring force	Mass	Remarks
Resolution 0.001mm/0.01mm							
543-390	543-390B	12.7mm	0.003mm	0.002mm	0.002mm	1.5N or less	170g —
543-394	543-394B	12.7mm	0.003mm	0.002mm	0.002mm	0.7, 0.6, 0.4N or less	170g Low measuring force
—	543-470B	25.4mm	0.003mm	0.002mm	0.002mm	1.8N or less	190g —
—	543-490B	50.8mm	0.005mm	0.002mm	0.002mm	2.3N or less	260g —
Resolution 0.01mm							
543-400	543-400B	12.7mm	0.02mm	0.02mm	0.01mm	0.9N or less	170g —
543-404	543-404B	12.7mm	0.02mm	0.02mm	0.01mm	0.5, 0.4, 0.3, 0.2N or less	170g Low measuring force
—	543-474B	25.4mm	0.02mm	0.02mm	0.01mm	1.8N or less	190g —
—	543-494B	50.8mm	0.04mm	0.02mm	0.01mm	2.3N or less	260g —

 : ANSI/AGD Type

Note) Products with an Order No. suffixed "B" have a flat back, and other models have a back with a lug.

* Overall hysteresis and repeatability specifications are valid for normal measurement at 20°C, and the quantizing error of ±1 count is excluded.

COMMON SPECIFICATIONS

- Display: 6-digit LCD, sign
- Contact point: Spherical tip SR = 1.5mm (carbide tipped),
part No. 901312 (for ISO/JIS Type)
part No. 21BZB005 (for ANSI/AGD Type)
- Spindle orientation for measurement:
 - Standard model that has a 12.7mm measuring range: No restrictions
 - Standard model that has a 25.4mm or 50.8mm measuring range: Normally at any position between the spindle pointing vertically downward to the spindle horizontal. To perform measurement with the spindle pointing above the horizontal requires a reverse-position coil spring (special accessory).
 - Low measuring force models: See 'Setting measuring force on low measuring force models' on page 5.
- Position detection method: Capacitance type absolute linear encoder
- Battery: SR44 (silver oxide button cell) × 1, part No. 938882
- Battery life: Approximately 7,000 hours of continuous use
- Maximum response speed: Not restricted (except for scanning measurement)
- Service temperature range: 0 to 40°C
- Storage temperature range: 0 to 60°C

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