

Technical Data

Accuracy: Refer to the list of specifications
 Resolution: 12 Steps
 .00005"/.0001"/.0005"
 0.001/0.01mm
 Display: LCD
 Length standard: ABSOLUTE electrostatic capacitance type linear encoder
 Max. response speed: Unlimited
 Measuring force: Refer to the list of specifications
 Battery: CR2032 (1 pc.), **05SAA217**
 Battery life: Approx. 12 months under normal use
 IP Rating: Equivalent to IP-42^{*1}

^{*1} A protection class indication (IP=International Protection) is based on the IEC 60529/DIN40050 part 1/JIS D0207, C0920. The level indicated is valid only if the output connector cap is installed.

Function

Key Lock, Parameter Lock, PC-USB Input, Analog Bar, FAST measurement frequency, Preset (up to 3 values), Tolerance Judgment, Peak Detection, Calculation, inch/mm conversion (on inch/metric models only), Counting direction switching, Data Output
 Alarm: Low voltage, Counting value composition error, Over-flow error, Tolerance limit setting error

Optional Accessories

905338: Connecting Cable (1m)
905409: Connecting Cable (2m)
21EZA313: Parameter Setting USB Cable
21EZA198: Spindle lifting lever (12.7mm ISO/JIS type)
21EZA199: Spindle lifting lever (12.7mm ASME/AGD type)
540774: Spindle lifting cable
 —: Backs (See page F-33.)
 —: Contact points (See page F-34.)

APPLICATIONS



- Various fixtures suited for individual workpieces can be prepared.
- Measuring accuracy is subject to fixture accuracy

ABSOLUTE Digimatic Indicator ID-C

SERIES 543 — Calculation Type

FEATURES

- The new Calculation-Type Digimatic Indicator features both a Key-Lock and Parameter-Lock. This is designed to prevent accidental changing of settings during operation.
- Improved parameter setting software makes it even easier to set all of the available parameters and determine and upload the proper coefficients for calculation.(optional)
- FAST measurement frequency allows the user to increase the number of readings per second from 10 to 50, allowing higher accuracy measurements of TIR and MAX/MIN.
- An analog bar provides easy to read values when scanning for Max, Min, and TIR Values.
- The Absolute Digimatic indicator performs internal calculations using the formula $Ax+B+Cx-1$ (assuming spindle displacement as x) while the specified coefficients A, B and, C can be set with respect to the purpose of measurement or dimensions of the fixtures. This unique features allows you to read your measurements directly, without fumbling for conversions.



543-342B

SPECIFICATIONS

ISO/JIS type ANSI/AGD type

Inch/Metric		Stem dia. 3/8" #4-48 UNF Thread			
Resolution	Range	Order No.*	Model	Accuracy	Measuring Force
.00005"/.0001"/.0005"	.5"/12.7mm	543-342B	ID-C112REXB	±.00010"/0.003mm	1.5N or less
0.001/0.01mm	1"/25.4mm	543-592B	ID-C125REXB	±.00010"/0.003mm	1.8N or less
Selectable	2"/50.8mm	543-597B	ID-C150REXB	±.00025"/0.006mm	2.3N or less

Inch/Metric		Stem ø 8mm, M2.5 x 0.45 Thread			
Resolution	Range	Order No.*	Model	Accuracy	Measuring Force
.00005"/.0001"/.0005"	.5"/12.7mm	543-341B	ID-C112RMXB	±.00010"/0.003mm	1.5N or less
0.001/0.01mm	1"/25.4mm	543-591B	ID-C125RMXB	±.00010"/0.003mm	1.8N or less
Selectable	2"/50.8mm	543-596B	ID-C150RMXB	±.00025"/0.006mm	2.3N or less

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0.001/0.01mm	.5"/12.7mm	543-340B	ID-C112RXB	0.003mm	1.5N or less
Selectable	1"/25.4mm	543-590B	ID-C125RXB	0.003mm	1.8N or less
	2"/50.8mm	543-595B	ID-C150RXB	0.006mm	2.3N or less

*Flat back

DIMENSIONS

