



## 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<sup>\*1</sup>

<sup>\*1</sup> 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)  
**21EZA105:** Lifting Knob (12.7mm/.5" ISO/JIS Models)  
**21EZA150:** Lifting Knob (12.7mm/.5" ASME/AGD Models)  
**21EZA197:** Lifting Knob (for 25.4/1" mm models)  
**21EZA200:** Lifting Knob (for 50.8/2" mm models)  
**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 to prevent accidental changing of settings during operation.
- Improved parameter setting software makes easy to set all 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 the need 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	<b>543-342B</b>	ID-C112REXB	±.00010"/0.003mm	1.5N or less
0.001/0.01mm	1"/25.4mm	<b>543-592B</b>	ID-C125REXB	±.00010"/0.003mm	1.8N or less
Selectable	2"/50.8mm	<b>543-597B</b>	ID-C150REXB	±.00025"/0.006mm	2.3N or less

**Inch/Metric**    Stem ø 8mm, M2.5 x 0.45 Thread

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.00005"/.0001"/.0005"	.5"/12.7mm	<b>543-341B</b>	ID-C112RMB	±.00010"/0.003mm	1.5N or less
0.001/0.01mm	1"/25.4mm	<b>543-591B</b>	ID-C125RMB	±.00010"/0.003mm	1.8N or less
Selectable	2"/50.8mm	<b>543-596B</b>	ID-C150RMB	±.00025"/0.006mm	2.3N or less

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	2"/50.8mm	<b>543-595B</b>	ID-C150RXB	0.006mm	2.3N or less

\*Flat back

## DIMENSIONS

