Mitutoyo



Inspection Instrument for Indicators

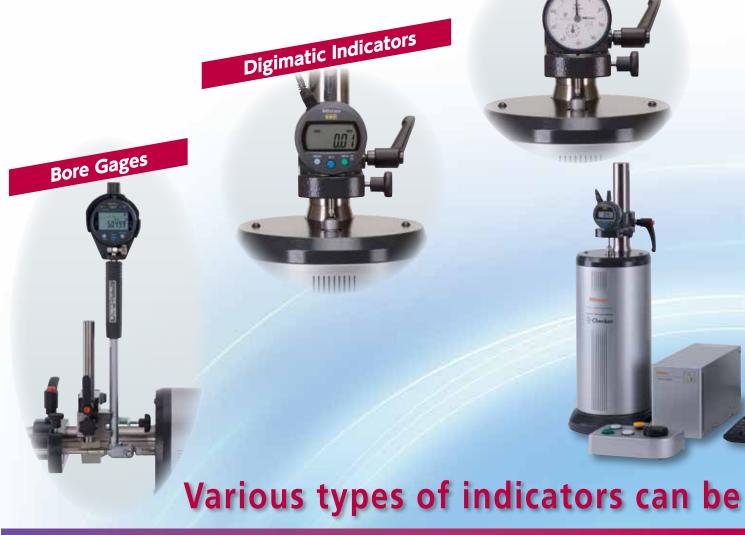
i-Checker

For efficient in-house calibration





For efficient in-house calibration



Features

- Inspection can be performed 2.5 times faster compared to the previous model.
- This instrument achieves the highest accuracy in its class (Mitutoyo survey, February 2016) and, therefore, guarantees ultra-reliable inspection results.
- Digital indicators equipped with a data output function are checked very efficiently due to spindle positioning at the inspection points and recording of measurement results being under fully automatic control.
- Analog type indicators are inspected in semi-automatic mode with the pointer of the indicator being manually adjusted at each measuring point with automatic transfer of inspection results and movement to the next measuring point.



Inspection using analog type indicator

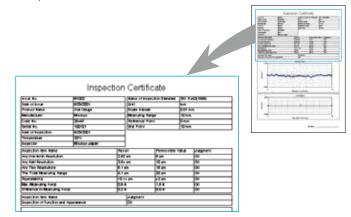


Inspection using digital type indicator

 The latest standard for lever-operated dial test indicators, ASME and DIN, are applied.

Dial Indicators

• Inspection standards to a customer's own specification can be implemented.







Inspection Instrument for Indicators i-Checker







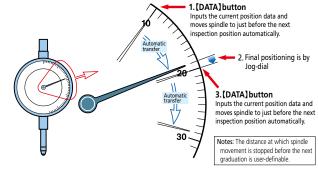
inspected with a single tester.

 A laptop PC can be connected using a USB cable, which contributes to space-saving.



• All functions necessary for inspection are combined in the control box so that the operator need not rely on excessive eye movement to adjust the pointer.





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Optional Accessories and Applications

Applications for Bore Gage Accessory Set

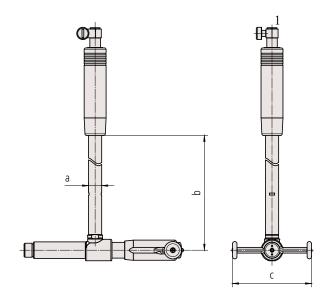


Applications for bore gage measurement accessory set (type C)



Application for mounting bore gage accessory set (type C) **Order No. 02ASU161**

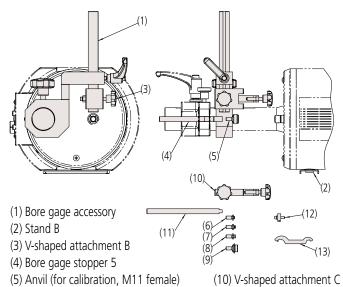
i-Checker mountable bore gages



	Range (mm)
a	ø6 - ø18
b	50 or below
С	120 or below



List of components for bore gage accessory set (type C) Order No.02ASU161



(6) Anvil (for calibration, M3.5 x 0.35 male) (11) Bore gage stopper 3

(12) i-Checker's special

contact point

(13) Key wrench

(7) Anvil (for calibration, M3.5 x 0.5 male)

(8) Anvil (for calibration, M5 male)

(9) Anvil (for calibration, M11 male)

Optional Accessories and Applications

Applications for Dial Test Indicator Accessory Set

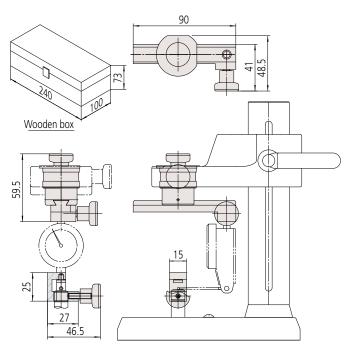


Applications for dial test indicator accessory set (for horizontal type)



Applications for dial test indicator accessory set (for vertical type)

Dial test Indicator accessory set (for ø6 stem) Order No.02ASK000







Optional accessories Attachments/Stem bush/Others/Connecting cables

Attachment O2ASK000 Test indicator accessory set (for ø6mm stem) For attachment of ø6 stem test indicator O2ASK180 Test indicator accessories set (for ø8mm stem) For attachment of ø8 stem test indicator O2ASK370 Test indicator accessories set (for ø6 stem) Holder to fix ø6 stem to 02ASK180 O2ASK380 Test indicator accessories set (for ø8 stem) O2ASK380 Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK000) Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK180) O2ASK040 Stem bush ø6 O2ASK040 Stem bush ø8 O2ASK040 Stem bush ø8 O2ASK050 Stem bush ø8, short O2ASK050 Bush ø9.5 - ø15 For attachment of cartridge head MCHP-341 O2ASK050 Stem bush ø10 O2ASK050 Stem bush ø12 O2ASK070 Stem bush ø20 O2ASK070 Stem bush ø20 O2ASK710 Stem bush ø28 O2ASK710 Stem bush ø28 O2ASK770 Stem bush ø28 O2ASK	Order No.	Item	Usage and remarks
02ASK000 (for ø6mm stem) For attachment of ø6 stem test indicator 02ASK180 (for ø6mm stem) For attachment of ø6 stem test indicator 02ASK370 (for ø8mm stem) For attachment of ø8 stem test indicator 02ASK370 (for ø8mm stem) Holder to fix ø6 stem to 02ASK180 902803 ø6 dovetail grooved stem (for ø8 stem) Holder to fix ø8 stem to 02ASK000 902804 ø8 dovetail grooved stem (samp ring (lever head type) to test indicator accessory set (02ASK000) Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK180) 902804 ø8 dovetail grooved stem (lamp ring (lever head type) to test indicator accessory set (02ASK180) Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK180) 902ASU161 (lype C) Bore gage accessory set (02ASK180) Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK180) 92ASK040 (lype C) Stem bush ø8 Por attachment of cartridge head MCHP-341 92ASK150 (stem bush ø8 Por attachment of LGB2 fixing nut type with stem diameter ø9.5 stem bush (ø15mm) is required separately. 92ASK050 (lype C) Stem bush ø12 Por attachment of indicator with stem diameter ø9.5 stem bush (ø15mm) is required separately. 92ASK080 (lype C) Stem bush ø3/8 in g9.5 st		item	Usage and remarks
OZASK180 (for ø8mm stem) For attachment of øs stem to 02ASK180 OZASK370 (for ø8 stem) Holder to fix ø6 stem to 02ASK180 OZASK380 (for ø8 stem) Holder to fix ø8 stem to 02ASK000 902803 ø6 dovetail grooved stem (for ø8 stem) Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK000) 902804 ø8 dovetail grooved stem (type C) Stem to attach Mu-Checker with knurled clamp ring (lever head type) to test indicator accessory set (02ASK180) 902ASU161 (type C) Bore gage accessory set (02ASK180) 92ASK040 (type C) Stem bush ø6 92ASK040 (type C) Stem bush ø8 92ASK150 (type C) Stem bush ø8 92ASK150 (type C) Stem bush ø8 92ASK050 (type C) Stem bush ø8 (type C) 92ASK050 (type C) Stem bush ø8 (type C) 92ASK060 (type C) Stem bush ø8 (type C) 92ASK070 (type C) Stem bush ø8 (type C) 92ASK080 (type C) Stem bush ø8 (type C) 92ASK090 (type C) Stem bush ø3/8 in (type C) 92ASK090 (type C) Stem bush ø3/8 in (type C) 92ASK090 (type C) Stem bush ø3/8 in (type C) 93ASK090 (type C) Stem bush ø3/8 in (type C)			For attachment of ø6 stem test indicator
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965014 Connecting cable (2m)*1 between the testers) 937387 Connecting cable (1m)*1 Used for connecting with Digimatic Indicators 965013 Connecting cable (2m)*1 (IDC and IDA) 965014 Connecting cable (2m)*1 Used for the Digimatic Indicators that require	905409	Connecting cable (2m)*1	(ID-C, ID-S, ID-U, and IDU)
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965013 Connecting cable (2m)*1 (IDC and IDA) OCEANS Digitality power supply Used for the Digitalic Indicators that require	965014	Connecting cable (2m)*1	between the testers)
Digimatic power supply Used for the Digimatic Indicators that require	937387	Connecting cable (1m)*1	Used for connecting with Digimatic Indicators
965275 Digimatic power supply Used for the Digimatic Indicators that require external power supply	965013	3 ' '	,
	965275	Digimatic power supply unit*2	Used for the Digimatic Indicators that require external power supply

^{*1} Use the cable described in the user's manual.

Required optional accessories Dedicated software (i-Pak specification)

Supported OS

Windows10 (64bit)

Supported Industrial Standards

ISO, JIS, JMAS, ANSI/ASME, DIN, VDI/VDE/DGQ, BS

• Basic inspection functions

- · Creation of inspection standard conformed to the industrial standard
- \cdot Creation and edition of original inspection standard, by customizing the industrial standard
- · Inspection of indicator using the inspection standard (inspection for accuracy and repeatability)
- · Graphical display of measurement result
- · Creation, edition, and printing of simplified inspection certificate

Function

- · Retry "measurement positioning"
- · Re-measurement
- · Data cancellation
- · Change of speed for jog shuttle

• Input/Output specifications

- · Digimatic data connector (rear side of i-Checker main unit)*3
- · PC serial-data input port (RS-232C)
- · rinting of simplified inspection certificates
- *3 Automatic measurement requires the indicator's connecting cable.

 Additionally some form of indicator, along with the normally connected accessory (the optional accessory for the indicator such as a Digimatic power-supply unit in an EF counter) will be required.

Supported indicators

- Dial Indicator
- Dial Test Indicator
- Mitutoyo Hicator
- Bore Gage
- Digimatic Indicator
- Linear Gage
- Electronic micrometer (Mu-Checker)
- * It cannot inspect the indicator with accuracy that is higher than the main unit accuracy of the tester.
- * Resolution of electronic micrometer (Mu-checker) is greater than 1μm (e.g. 1μm/5μm/10μm/50μm).

^{*2} Confirm the specification in the user's manual.



Supported Industrial Standards

	Dial Indicator	Dial Test Indicator	Hicator	Bore Gage	Digimatic Indicator	Linear Gage	Electronic micrometer
ISO	463-2006 R463-1965	9493-2010	_	_	_	_	_
JIS	B7503-2011 B7503-1997 B7503-1992	B7533-2015 B7533-1990	B7519-1994	B7515-1982	_	-	B7536-1982
JMAS	2001-1998 2001-1994 2003-1994	_	_	5009-1988	_	_	5003-1962
ANSI/ASME	B89.1.10M-2001 B89.1.10M-1987	B89.1.10M-2001 B89.1.10M-1987	_	_	B89.1.10M-2001	_	_
DIN	878-2006 878-1983	2270-1985	879-1983	_	_	_	_
VDI/VDE/DGQ	2618 Blatt11-1991	2618 Blatt11.3-2002 2618 Blatt20-1991	2618 Blatt21-1991	_	-	_	2618 Blatt26-1991
BS	907-1965	2795-1981	_	_	_	_	_
Mitutoyo Standard	_	_	_	_	V	V	_

Specifications

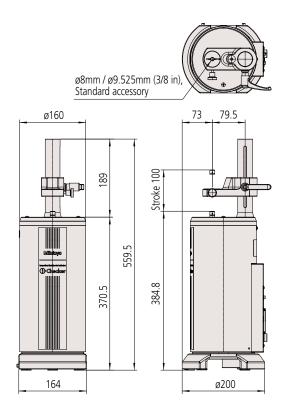
Order No.		170-402/170-403	
Measuring Range		100mm	
Resolution	<u> </u>	0.01µm	
Accuracy	vertical position	(0.1+0.4L/100) µm L = Arbitrary length (mm)	
(20°C)	lateral position	(0.15+0.6L/100) μm L = Arbitrary length (mm)	
Feed spee	d	Maximum 10mm/s	
Drive method		Motor drive, semi-automatic, fully automatic (Fully automatic only for Indicator with SPC data output)	
Measuring Unit		Separate type Linear Encoder	
Thermal expansion coefficient of measurement mode		1.5×10 ⁻⁶ / K	
Measurement method		Semi-automatic measurement	
		Fully automatic measurement (only when using an indicator equipped with data output function) *1*2	
Mass 20kg		20kg	
Operating temperature range		20°C±0.5°C	

^{*1} Automatic measurement requires the indicator's connecting cable. Additionally some form of indicator, along with the normally connected accessory (the optional accessory for the indicator such as a Digimatic power-supply unit in an EF counter) will be required.

Standard accessories supplied Order No.170-402/170-403

Order No.	ltem	QTY.
02AST250	Tester main unit	
02AST780	Controller ICMC-2	1
02AST830	Control box	1
02ASU001	EXT. Signal Cable	1
02ASU002	EXT. Motor Cable	1
02ASU003A	EXT. USB2.0 Cable	1
02ASJ856	Stem bush 8mm, only for No.170-402	1
02ASK091	Stem bush 9.525mm (3/8 in), only for No.170-403	1
601614-2	Dust cover	1
99MBD063A	User's Manual (English)	1
-	Inspection certificate, Certification of calibration and Traceability chart (English)	1

Dimensions Unit: mm



^{*2} The indicator measured via RS-232C has the capability to receive data from the main unit and output the counter value.



Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

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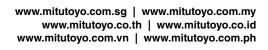
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