

## **NEW Product**



Bulletin No. 1563

## i-Checker Full/Semi-Automatic Inspection System



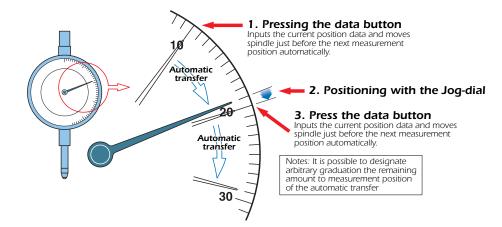
# Inspect your analog indicator semi-automatically!

• The pointer of the analog indicator is positioned just before the measuring point automatically via Mitutoyo's Semi-automatic Measurement function. After that, inspection begins simply by adjusting the pointer position with the jog-dial. Because of this function, measurement time is reduced and user fatigue is eliminated. Additionally all functions necessary for inspection are combined in the control box for easy operation.





Attached bore gage accessory set (optional)





Attached test indicator accessory set (optional)

## Fully automatic inspection of digital indicator

 The Automatic Measurement function, in tandem with a digital indicator makes the spindle move so that measurement data is acquired automatically. Therefore, manual

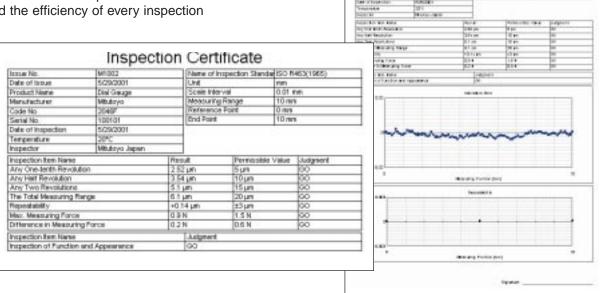
adjustment to the measurement position is unnecessary and the efficiency of every inspection is enhanced.

# Create and printout a simplified inspection certificate

 It is possible to create, edit and print out your own inspection certificate, and that data can be saved as a CSV file.

Inspection Certificate

Car Close Action Con Come Secure Sept Secure Sept Secure Sept



### **NEW** Product News

#### **SPECIFICATIONS**

#### i-Checker main unit

Order No. 170-303A					
Item		Contents			
Measuring Range		100mm/4"			
Resolution		0.02μm/1.24μin			
Accuracy	vertical position	±(0.2+L/100)μm	L = Arbitrary length		
(at 20°C)	lateral position	±(0.3+2L/100)µm	L = Arbitrary length		
Feed speed		4mm/sec (max.)			
Drive method		Motor drive			
Measuring Unit		Reflective-type metal linear encoder			
Thermal expansion coefficient		(8±1)X10 <sup>-6</sup> /K			
of measurement mode					
Measurement method		Semiautomatic measurement			
		Fully automatic measu			
Lea Labella de la constante		Digimatic Indicator with RS-232C output*2  Digimatic data input connector X1*3			
Input data connector		Flat cable connector 10pin/equivalent to			
		XG4-1301 from OMRON*4			
Dimensions	(W x D x H)	(H) 184 x 225 x 532mm/7.24" x 8.86" x 2			
Operating temperature range		20°C ±3°C			
Operating hu	ımidity range	58%RH±15%RH (Only free of condensation)			
Storage temperature range		-10°C to 50°C			
Storage humidity range		5%RH to 90%RH (Only free of condensation)			
Power supply		100VAC to 240VAC ±10%, 50/60Hz			
Mass		20kg/441lbs			

\*1 Automatic measurement requires the indicator's connection cable. Additionally some form of indicator, along with a connecting machine (the optional accessory for indicator as a digimatic power-supply unit on EF counter) will be needed.

\*2 The indicator that can be measured via RS-232C is the one equipped with the function to receive the "send data" request command form from the main unit and can output the counter value to the main unit.

\*3 For the RS-232C connector, uses the connector from a computer

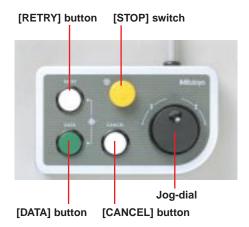
\*4 The connection cable connector is equivalent to MIL-DTL-83503/7D-10.



\*Personal computer and printer are optional.

#### Operation Box

Item		Contents
Switch	Jog-dial	Shuttle moves main unit spindle up and down.
	[DATA] button	Use for acquiring the measurement data.
	[RETRY] button	Handy for retrying "measurement positioning". Automatically removing indicator hysteresis
	[CANCEL] button	Deletes previous data and measures it again.
	[STOP] switch	Forcibly halts operation.
Dimension (W x D x H)		170 x 100 x 55mm/6.69" x 3.94" x 22.17"
Mass		1kg/2.2lbs.



#### Applicable computer and printer\*1

Item	Operating environment (minimal condition)	Suggested environment		
Machine type	IBM-PC compatible			
OS	Windows 2000 or NT4.0 (SP3 or newer + IE 5.0 or newer)			
Microprocessor	Pentium III 450MHz	Pentium III 600MHz or more		
Memory	64MB	128MB or more		
HDD	more than 50MB free space except for OS	more than 1GB free space except for OS		
Drive	CD-ROM, FDD			
Interface	Parallel (for printer) X1 RS-232C (for full-automatic measurement) X1			
Slot	PCI (PCI2.1 Compatible) X1: for control board			
Screen resolution	1024 (W) x 768 (H) x High Color (16Bit)	1024 (W) x 768 (H) x True Color (32Bit)		

<sup>\*1</sup> Windows supporting printer

#### i-Pak

Item		Contents	
Supporting industrial standard*1		ISO, JIS, JMAS, DIN, VDI/VDE/DGQ, ANSI/ASME	
Basic functions		Create an inspection standard conforming to the industrial standards.     Create an original inspection standard, though customization industrial standard     Inspect an indicator using a newly created inspection standard (inspection for accuracy, dispersion)     Create and print of simplified inspection certificates.     Display measurement results graphically.	
Other functions	Warning	This window is displayed when the measured value exceeds the limit during the semiautomatic inspection	
	Re-measurement	It is possible to confirm the measuring data, by re-measuring the specified position after the inspection	
	Display of inspection manual	Display the inspection manual when starting an inspection*2	
	Retry	Use for retry the "measurement positioning". (it removes the hysteresis of indicator automatically)	
	Password	Restricted access through by password registration	

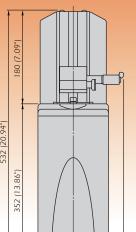
<sup>\*1</sup> Refer to the reference materials (attached paper) for details about support for industrial standards.

<sup>\*2</sup> To create an inspection manual, it is necessary to install the application software used to create the document, in the computer where i-Pak is installed.

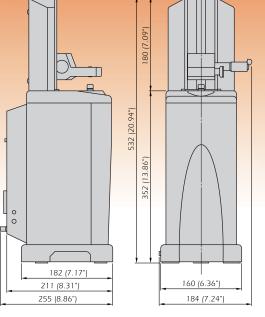
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### **DIMENSIONS**



Unit: mm (inch)



#### **Optional accessories**

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AII	1	1			-		

02ASK000 Test indicator accessories

set (ø6 stem)

02ASK180 Test indicator accessories

set (ø8 stem)

02ASK370 Test indicator holder

(ø6 stem)

02ASK380 Test indicator holder

(ø8 stem)

02ASK110 Bore gage accessories

(1 set)

902803 ø6 dovetail grooved stem

902804 ø8 dovetail grooved stem

#### Stem bush

02ASK040 Stem bush ø6 02ASJ856 Stem bush ø8 02ASK150 Stem bush ø8, short

02ASK050 Bush ø9.5\*

02ASK060 Stem bush ø12 02ASK070 Stem bush ø15 02ASK080 Stem bush ø20

02ASK090 Stem bush 3/8" 02ASK130 Case

\*Requires 02ASK070

#### Cable\*1

905338 Connecting cable (1m/40") Connecting cable (2m/80") 905409 936937 Connecting cable (1m/40") 905014 Connecting cable (2m/80") 905387 Connecting cable (1m/40") 905013 Connecting cable (2m/80")

\*1: for automatic measurement

#### **Others**

02ASK730 Reflector 937179T Foot switch

#### **Computer Systems**

Code No.

64AAA355 Dell System w/17" Monitor included; printer HP-950C deskjet 64AAA356 Dell System w/15" Flat Monitor included; printer HP-950C deskjet

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