



Certificate of calibration

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Customer ; DIMENSION CALIBRATION CENTER CO., LTD.
33/5-6 MOO 4 SUKPRAYOON ROAD , TAMBON DONHUARO
AMPHUR MUANG , CHONBURI THAILAND 20000

Instrument ; Dial indicator

Manufacturer ; Mitutoyo

Model no. ; 2046S

Range ; 0 mm - 10 mm

Resolution ; 0.01 mm

Serial no. ; 1234

Identification no. ; 1234

Reference no. ; S555-1234

Date of received ; September 5, 2012

Date of calibration ; September 18, 2012

Date of issued ; September 20, 2012

Mr.Thanech Suksawat
Technician

Mr.Chatchapol Jirojjaturonn
Laboratory manager

The calibration cover by this certificate have been performed in accordance with the requirement of ISO/IEC 17025: 2005.

The reported uncertainty is based on standard uncertainty multiplied by coverage factor $k = 2$ providing of confidence approximately 95%.

This calibration certificate may not be reproduced other than in full except with the permission of Director of Dimension Calibration Center Co.,Ltd.



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Reference standard instrument and traceability

Dial gauge tester serial no. 800752

Certificate no.

11L5888

Date of calibration

October 25, 2011

Due date

October 24, 2013

Traceable to "National Institute of Metrology (Thailand) through certificate no. 11L5888.

Measurement method

Direct measurement refer to standard method JIS B 7503: 1997 according to work instruction WI5-03-37.

Environment conditions

The measurement was carried out within ambient temperature of $(20 \pm 1) ^\circ\text{C}$ and relative humidity of $(55 \pm 10) \% \text{ RH}$.

Uncertainty of measurement

The uncertainty state is the expanded uncertainty which obtained by multiplying the standard uncertainty by coverage factor $k=2$. It has been determined in accordance with EA publication EA-4/02 "Expression of the Uncertainty of Measurement in Calibrations" and "Guide to the Expression of Uncertainty in Measurement (GUM)". The values of assigned presents within the range of values with probability of 95%.

Measurement data

Nominal (mm)	Deviation (mm)		$\sigma_{95\%}$ (mm)
	FW	BW	

Repeatability of indicator ($\pm$) 0.000 mm

End certificate