



The Dutch Accreditation Council RvA, by law appointed as the national accreditation body for The Netherlands, hereby declares that accreditation has been granted to:

Intermes B.V. Calibration Laboratory Hengelo

The organisation has demonstrated to be able to generate technical valid results in a competent way and work according to a management system.

This accreditation is based on an assessment against the requirements as laid down in ISO/IEC 17025:2005.

The accreditation covers the activities as specified in the authorized annex bearing the registration number.

The accreditation is valid provided that the organisation continues to meet the requirements.

The accreditation with registration number:

K 018

is granted on 22 December 2016

This declaration is valid until
1 December 2020

The accreditation has been granted for the first time on
15 September 1980

The Chief Executive

Ir. J.C. van der Poel

of **Intermes B.V.**
Calibration Laboratory

This annex is valid from: **01-11-2017** to **01-12-2020**

Replaces annex dated: **22-12-2016**

Locations where activities are performed under accreditation

Location	Abbreviation/ location code
Joseph Strumpeterstraat 10 7559 SG Hengelo Nederland	

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks
DM 0 0	DIMENSIONAL QUANTITIES			
DM 1 0	Gauge blocks			
	Gauge blocks, steel	(0.5 - 100) mm (0.02 - 4) inch	0.06 μm + 1.2•10 ⁻⁶ •/	Central length, fixed sizes
	Gauge blocks, tungsten carbide	(0.5 - 100) mm (0.02 - 4) inch	0.06 μm + 0.7•10 ⁻⁶ •/	Central length, fixed sizes
	Gauge blocks, ceramic	(0.5 - 100) mm (0.02 - 4) inch	0.06 μm + 1.0•10 ⁻⁶ •/	Central length, fixed sizes
	Gauge blocks, steel / tungsten carbide / ceramic		0.05 μm + 0.1•10 ⁻⁶ •/	Length variation
	Step gauge	up to 1000 mm	1.2 μm + 6.0•10 ⁻⁶ •/	
DM 2 0	Line scales, distances			
	Rulers (all models)	up to 300 mm	0.8 μm + 4•10 ⁻⁶ •/	
		up to 600 mm	1.1 μm + 4•10 ⁻⁶ •/	
		up to 3000 mm	6 μm + 5•10 ⁻⁶ •/	
		up to 100 m	6 μm + 6•10 ⁻⁶ •/	

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas
 Director of Operations

¹ Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "Expression of the Uncertainty of Measurement in Calibration".

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks
DM 3 0	Length measuring instruments			
	1D-measuring machines			Laser interferometer; machine equipped with
		up to 20 m	$0.15 \mu\text{m} + 0.7 \cdot R + 1.0 \cdot 10^{-6} \cdot l$	Zerodur scales;(1)
		up to 20 m	$0.15 \mu\text{m} + 0.7 \cdot R + 1.3 \cdot 10^{-6} \cdot l$	Glass scales;(1)
		up to 20 m	$0.15 \mu\text{m} + 0.7 \cdot R + 1.6 \cdot 10^{-6} \cdot l$	Steel scales;(1)
		up to 400 mm	$0.3 \mu\text{m} + 0.7 \cdot R + 3 \cdot 10^{-6} \cdot l$	Optical systems (1)
		up to 700 mm	$0.05 \mu\text{m} + 0.5 \cdot 10^{-6} \cdot l + S$	Using special gauge blocks (1)
	Handheld tools for external measurements	(0 - 200) mm	$0.45 \mu\text{m} + 0.5 \cdot R + 25 \cdot 10^{-6} \cdot l$	e.g. vernier, micrometer, (1)
		(200 - 2000) mm	$4 \mu\text{m} + 0.5 \cdot R + 5 \cdot 10^{-6} \cdot l$	
	Handheld tools for internal measurements (2-point)	(0 - 200) mm	$0.7 \mu\text{m} + 0.5 \cdot R + 25 \cdot 10^{-6} \cdot l$	e.g. vernier, internal micrometer, (1)
		(200 - 400) mm	$5 \mu\text{m} + 0.5 \cdot R + 4 \cdot 10^{-6} \cdot l$	
	Handheld tools for internal measurements (2- and 3-point)	(1 - 250) mm	$1.5 \mu\text{m} + 0.5 \cdot R + 25 \cdot 10^{-6} \cdot l$	e.g. internal micrometers (1)
	Handheld tools for height- and depth measurements	(0 - 200) mm	$0.7 \mu\text{m} + 0.5 \cdot R + 25 \cdot 10^{-6} \cdot l$	e.g. (depth) vernier, (1)
		(200 - 500) mm	$4 \mu\text{m} + 0.5 \cdot R + 5 \cdot 10^{-6} \cdot l$	
	Linear displacement sensor	up to 200 mm	$0.05 \mu\text{m} + 0.7 \cdot R + 2.5 \cdot 10^{-6} \cdot l + S$	e.g. dial gauge, ...(1)
(200 - 300) mm		$0.7 \mu\text{m} + 0.7 \cdot R + 3.5 \cdot 10^{-6} \cdot l$	e.g. dial gauge, ...	
Height gauge	up to 1500 mm	$0.8 \mu\text{m} + 0.7 \cdot R + 2.5 \cdot 10^{-6} \cdot l$	(1)	
Inside micrometer	up to 300 mm	$0.7 \mu\text{m} + 0.7 \cdot R + 2.5 \cdot 10^{-6} \cdot l$	(1)	
	(300 - 1000) mm	$0.4 \mu\text{m} + 0.7 \cdot R + 2 \cdot 10^{-6} \cdot l$	(1)	
	(1000 - 3000) mm	$0.4 \mu\text{m} + 0.7 \cdot R + 2 \cdot 10^{-6} \cdot l$		
Film thickness gauge	up to 25 mm	$0.6 \mu\text{m} + 0.7 \cdot R + 22 \cdot 10^{-6} \cdot l$		
Laser distance meter	up to 25 m	$0.5 \text{ mm} + 40 \cdot 10^{-6} \cdot L + 0,6 \cdot R$		

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DM 4 0	Diameter, length			
	Setting rings and ring gauges	Ø (1 - 4) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
		Ø (4 - 200) mm	$1.0 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
		Ø (200 - 500) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
	Pin gauge	up to Ø 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
	Plug gauge	up to Ø 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
	Thread wires	up to Ø 20 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
	Other external diameters	up to Ø 100 mm	$0.5 \mu\text{m} + (1+6 \cdot \Delta T) \cdot 10^{-6} \cdot l$	(1)
		up to Ø 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
	Other internal diameters	Ø (1 - 4) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
		Ø (4 - 200) mm	$1.0 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
		Ø (200 - 500) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
	Feeler gauges	up to 5 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
	Setting gauges for micrometers	up to 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	(1)
		(300 - 1000) mm	$0.4 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	(1)
		(1000 - 3000) mm	$0.4 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
	Other distances for parallel faces	up to 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	(1)
		(300 - 1000) mm	$0.4 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	(1)
		(1000 - 3000) mm	$0.4 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
DM 5 0	Form error			
	Roundness in- and externally	Ø (1 - 500 mm)	$0.05 \mu\text{m} + 0.01 \cdot A$	A=roundness deviation
	Roundness testers and other instruments for measuring roundness		$0.04 \mu\text{m} + 0.5 \cdot R$	(1)
	Knife edge straight edge	up to 100 mm	0.25 μm	(1)
		(100 - 300) mm	0.6 μm	(1)
		(300 - 500) mm	0.7 μm	(1)
	Straight edge	up to 10 m	$0.4 \mu\text{m} + 0.25 \cdot 10^{-6} \cdot l$	(1)

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	Surface plate	Up to 6 x 10 m ²	0.2 μm + 1.5•10 ⁻⁶ •l	l = longest side of the surface plate (1)
	Flick standard (roundness standard)		0.15 μm	
DM 6 0	Roughness			
	Surface texture measuring instruments	Ra up to 5 μm	0.01 μm + 0.02•A + 0.5•R+S	A = Ra-value of reference (1)
		Rz up to 10 μm	0.01 μm + 0.05•A + 0.5•R+S	A = Rz-value of reference (1)
		Rt Rmax up to 10 μm	0.01 μm + 0.05•A + 0.5•R+S	A = Rt Rmax-value of reference (1)
	Roughness standards	Ra up to 10 μm	0.015 μm + 0.045•A	A = measured Ra-value
		Rz up to 15 μm	0.025 μm + 0.07•A	A = measured Rz-value
		Rt (Rmax) up to 15 μm	0.025 μm + 0.07•A	A = measured Rt (Rmax)-value
	Groove depth (-standaard)	up to 6 mm	0.05 μm + 0.007•A	A = measured profile height
DM 7 0	Thread quantities external			e.g. screw plug gauge
	Pitch	up to 10 mm	2 μm	
	Profile angle	up to 180°	(0.2 + 9/L) arcmin	
	Single pitch diameter	∅(1 - 300) mm	α = 30°: ± (6.0 – 7.5) μm	According to Euramet/CG-10/V.02, method 1a or 1b
		∅(1 - 300) mm	α = 55° 60°: ± (3.2 – 4.1) μm	
		∅(1 - 300) mm	α = 90°: ± (2.6 – 3.4) μm	
	Pitch diameter	∅(1 - 300) mm	α = 30°: ± (6.0 – 7.5) μm	According to Euramet/CG-10/V.02, method 2a, 2b or 3
		∅(1 - 300) mm	α = 55° 60°: ± (3.2 – 4.1) μm	
		∅(1 - 300) mm	α = 90°: ± (2.6 – 3.4) μm	

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DM 7 0	Thread quantities internal			e.g. screw ring gauge	
	Pitch	up to 10 mm	2 µm		
	Profile angle	up to 180°	(0.2 + 9/L) arcmin	Measurement on cast	
	Simple pitch diameter	∅(4 - 200) mm	α = 30°: ± (9 – 14) µm	According to Euramet/CG-10/V.02, method 1a or 1b	
		∅(4 - 200) mm	α = 55° 60°: ± (3.6 – 7) µm		
		∅(4 - 200) mm	α = 90°: ± (3.1 – 6.2) µm		
	Pitch diameter	∅(4 - 200) mm	α = 30°: ± (9 – 14) µm	According to RvA-I-4.05, Euramet/CG-10/V.02, method 2a, 2b or 3	
		∅(4 - 200) mm	α = 55° 60°: ± (3.6 – 7) µm		
		∅(4 - 200) mm	α = 90°: ± (3.1 – 6.2) µm		
DM 8 0	Combined instruments				
	1D-, 2D- en 3D-measuring machines	up to 20 m	0.15 µm + 0.7•R + 1.0•10 ⁻⁶ •l	Laser interferometer, Zerodur scales (1)	
		up to 20 m	0.15 µm + 0.7•R + 1.3•10 ⁻⁶ •l	Laser interferometer, glass scales (1)	
		up to 20 m	0.15 µm + 0.7•R + 1.6•10 ⁻⁶ •l	Laser interferometer, steel scales (1)	
		up to 400 mm	0.3 µm + 0.7•R + 2.3•10 ⁻⁶ •l	Optical systems (1)	
		up to 700 mm	0.05 µm + 0.5•10 ⁻⁶ •l + S	Using special gauge blocks (1)	
		Deviation of nominal displacement	up to 20 m	0.15 µm + 0.7•R + 1.0•10 ⁻⁶ •l	Laser interferometer, Zerodur scales (1)
			up to 20 m	0.15 µm + 0.7•R + 1.3•10 ⁻⁶ •l	Laser interferometer, glass scales (1)
	up to 20 m		0.15 µm + 0.7•R + 1.6•10 ⁻⁶ •l	Laser interferometer, steel scales (1)	
		up to 400 mm	0.3 µm + 0.7•R + 2.3•10 ⁻⁶ •l	Optical systems (1)	
		up to 700 mm	0.05 µm + 0.5•10 ⁻⁶ •l + S	Using special gauge blocks (1)	
		Deviations transverse to the translation directions	up to 0,5 mm	0.1 µm + 3•10 ⁻⁶ •l + 0.005•A	A = measured deviation; measuring length up to 3000 mm (1)

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	Rotational deviations around the translation direction	up to 400 arcsec	0.5 arcsec + 0.0035•H	H = measured angle; only horizontal translations (1)
		up to 2000 µm/m	2.5 µm/m + 0.0035•H	
		up to 400 arcsec	1.6 arcsec + 0.007•H	Up to 2000 mm translation; ceramic straight edge and 2 displacement sensors (1)
		up to 2000 µm/m	8 µm/m + 0.007•H	
	Other rotational deviations	up to 7200 arcsec	0.5 arcsec + 0.0016•H	H = measured angle, translation up to 20 m (1)
	Translation deviation along a rotational axis		0.025 µm	(1)
	Parallelism of a rotation and a translation	translation up to 500 mm	1arcsec	(1)
	Squareness of 2 translations	up to 500 x 500 mm ²	1arcsec	Ceramic square and displacement sensor (1)
		up to 500 x 500 mm ³	0.6 arcsec	
	Squareness of a rotation and a translation	translation up to 150 mm	0.07 µm	(1)
		translation up to 300 mm	0.7 µm	(1)
DM 8 1	Tools, products			
	Surface profiles	up to 6 x 120 mm ²	0.05 µm + 0.007•A	A = measured profile height
	Roughness	Ra: up to 10 µm	0.015 µm + 0.045•A	A = measured Ra-value
		Rz: up to 15 µm	0.025 µm + 0.07•A	A = measured Rz-value
		Rt, Rmax: up to 15 µm	0.025 µm + 0.07•A	A = measured Rt, Rmax-value
	Straightness	up to 6 x 120 mm ²	0.05 µm + 0.007•A	A = measured profile height
		up to 100 mm	0.25 µm	
		(100 - 300) mm	0.6 µm	
		(300 - 500) mm	0.7 µm	
		up to 1000 mm	1.3 µm + 2•10 ⁻⁶ •l	

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		up to 10 m	$0.5 \mu\text{m} + 0.5 \cdot 10^{-6} \cdot l$	(1)
	Roundness external	up to Ø500 mm	$0.05 \mu\text{m} + 0.01 \cdot A$	A = measured roundness
	Roundness internal	Ø(0,7 - 500) mm	$0.05 \mu\text{m} + 0.01 \cdot A$	A = measured roundness
	Cylindricity	up to Ø500 and up to height 100 mm	$0.5 \mu\text{m} + 1.1 \cdot 10^{-6} \cdot H + 0.01 \cdot A$	A = measured cylindricity H = height cylinder
		up to Ø500 and up to height 500 mm	$1.1 \mu\text{m} + 2 \cdot 10^{-6} \cdot H + 0.01 \cdot A$	
	Coaxiality and concentricity	up to Ø500 and up to height 500 mm	$0.1 \mu\text{m} + 0.02 \cdot A$	A = measured coaxiality / concentricity
	Flatness	up to Ø60 mm	$0.04 \mu\text{m}$	
		up to Ø145 mm	$0.06 \mu\text{m}$	
		up to Ø300 mm	$0.6 \mu\text{m}$	
		up to $6 \times 10 \text{ m}^2$	$0.2 \mu\text{m} + 1.5 \cdot 10^{-6} \cdot l$	(1)
	Angles between sides or planes	up to 180°	$(0.2 + 9/A) \text{ arcmin}$	A = leg length; leg length up to 200 mm
	Diameter external	up to Ø 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
		up to Ø 100 mm	$0.5 \mu\text{m} + (1+6 \cdot \Delta T) \cdot 10^{-6} \cdot l$	(1)
		Ø(300 - 500) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
	Diameter internal	Ø(1 - 4) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
		Ø(4 - 200) mm	$1.0 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
		Ø(200 - 500) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
DM 8 1	Tools, products	Distance of 2 parallel planes		
	External	up to 300 mm	$0.8 \mu\text{m} + 2.5 \cdot 10^{-6} \cdot l$	
		up to 100 mm	$0.5 \mu\text{m} + (1+6 \cdot \Delta T) \cdot 10^{-6} \cdot x$	(1)
		(300 - 3000)mm	$0.4 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
	Internal	Ø(1 - 4) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
		Ø(4 - 200) mm	$1.0 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	
		Ø(200 - 500) mm	$1.2 \mu\text{m} + 6 \cdot 10^{-6} \cdot l$	
DM 8 1	Tools, products	Thread external		
	Pitch	up to 10 mm	$2 \mu\text{m}$	

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	Profile angle	up to 180°	$(0.2 + 9/L)$ arcmin	
	Simple pitch diameter	∅(1 - 300) mm	$\alpha = 30^\circ: \pm (6.0 - 7.5) \mu\text{m}$	According to Euramet/CG-10 V 2.0, method 1a or 1b
		∅(1 - 300) mm	$\alpha = 55^\circ 60^\circ: \pm (3.2 - 4.1) \mu\text{m}$	
		∅(1 - 300) mm	$\alpha = 90^\circ: \pm (2.6 - 3.4) \mu\text{m}$	
	Pitch diameter	∅(1 - 300) mm	$\alpha = 30^\circ: \pm (6.0 - 7.5) \mu\text{m}$	According to Euramet/CG-10 V 2.0, method 2a, 2b or 3
		∅(1 - 300) mm	$\alpha = 55^\circ 60^\circ: \pm (3.2 - 4.1) \mu\text{m}$	
		∅(1 - 300) mm	$\alpha = 90^\circ: \pm (2.6 - 3.4) \mu\text{m}$	
	Simple pitch diameter	∅(4 - 100) mm	$\alpha = 30^\circ: \pm (9 - 14) \mu\text{m}$	According to Euramet/CG-10 V 2.0, method 1a or 1b
		∅(4 - 100) mm	$\alpha = 55^\circ 60^\circ: \pm (3.6 - 7) \mu\text{m}$	
		∅(4 - 100) mm	$\alpha = 90^\circ: \pm (3.1 - 6) \mu\text{m}$	
	Pitch diameter	∅(4 - 100) mm	$\alpha = 30^\circ: \pm (9 - 14) \mu\text{m}$	According to Euramet/CG-10 V 2.0, method 2a, 2b or 3
		∅(4 - 100) mm	$\alpha = 55^\circ 60^\circ: \pm (3.6 - 7) \mu\text{m}$	
		∅(4 - 100) mm	$\alpha = 90^\circ: \pm (3.1 - 6) \mu\text{m}$	
DM 9 0	Angle measurement			
	Angle gauge block	0° - 180°	2 arcsec	
	Cylindrical square	up to ∅300 mm, up to height 500 mm	$0.9 \mu\text{m} + 2.1 \cdot 10^{-6} \cdot l + 0.02 \cdot A$	A = measured squareness
	Square	up to 500 mm leg length	$0.7 \mu\text{m} + 2.2 \cdot 10^{-6} \cdot l + 0.02 \cdot A$	A = measured squareness
	Angle plate	90°	0.5 arcsec	
	Autocollimator	up to 12.5 mm/m	$0.5 \mu\text{m}/\text{m} + 0.001 \cdot H + 0.7 \cdot R$	
		up to 2600 arcsec	$0.1 \text{ arcsec} + 0.001 \cdot H + 0.7 \cdot R$	
	Spirit level	up to 12.5 mm/m	$0.5 \mu\text{m}/\text{m} + 0.001 \cdot H + 0.7 \cdot R$	
		up to 2600 arcsec	$0.1 \text{ arcsec} + 0.001 \cdot H + 0.7 \cdot R$	
DM 9 1	Angle measurement			
	Leveling instruments		0.01 mm/m	

Annex to declaration of accreditation (scope of accreditation)
 Normative document: ISO/IEC 17025:2005
 Registration number: **K 018**

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DM 9 2	Angle measurement			
	Polygon	up to 360°	0.5 arcsec	
	Pentagon prism	90°	0.5 arcsec	
DM 9 3	Angle measurement			
	Deviation of the nominal rotation	360°	0.9 arcsec + 0.7•R	f.i. rotary heads and rotary table (1)
DM 9 4	Angle measurement			
	Clinometer	up to 360°	5 arcsec	(1)

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Temperature conditions for electrical calibrations is nominal 23 °C; temperature conditions for geometrical calibrations is nominal 20 °C ,
temperature conditions for pressure and temperature calibrations is nominal 21 °C

$p_e = p - p_{amb}$: p_e is overpressure, p_{amb} is ambient pressure

This list of calibrations is , unless otherwise stated, applicable for calibrations performed inside the IntermeS laboratory.

(1) Calibrations performed at customers' premises.