

ACCREDITATION CERTIFICATE

No. LA.02.031

Lithuanian National Accreditation Bureau hereby certifies that

complies with the requirements of

**UAB DEKRA Industrial Calibration
laboratory**

LST EN ISO/IEC 17025:2018

legal entity: UAB „DEKRA Industrial“
legal entity code: 301845573

and is competent to perform:

calibration of measuring equipment

The scope of accreditation below is an integral part of this certificate. Locations of the conformity assessment body are specified in the scope of accreditation

Initial accreditation date: **2010-12-29**

Certificate issued / valid since: **2025-05-28**

Version of: **2025-05-28**

Expiry date: **2030-05-27**

Director



DALIA BALEŽENTĖ

The certificate may be changed, its validity suspended or withdrawn by the decision of the National Accreditation Bureau. Information on the actual data of accreditation certificates may be verified at nab.lrv.lt



UAB DEKRA Industrial Calibration laboratory, accredited in accordance with **LST EN ISO/IEC 17025:2018**

Location of the conformity assessment body:

Taikos pr. 7, LT-31107, Visaginas

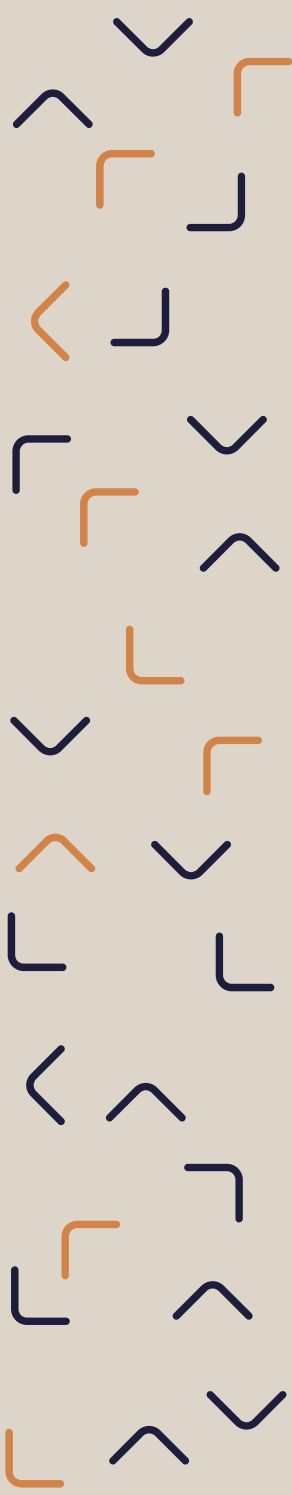
Calibration and measurement capability (CMC) expressed as:

Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty
Receiver frequency	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	(0,1...30) MHz	0,01 MHz
	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	(0,1...30) MHz	0,01 MHz
Transmitter frequency	LST EN ISO 15548-1 (verification level 2)	Eddy current test instruments	10 Hz...25 MHz	0,6%
Receiver frequency	ISO 15548-1 (verification level 2)		10 Hz...10 kHz	0,01 Hz
			10 kHz...25 MHz:	1,2 ppm
Transmitter voltage	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	to 300 V	1,8%
	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	to 200 V	1,8%
	LST EN ISO 15548-1 (verification level 2) ISO 15548-1:2013 (verification level 2)	Eddy current test instruments	to 20 V	2%
Pulse rise time	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	to 20 ns	0,31 ns
	EN ISO 18563-1:2022 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	to 20 ns	0,31 ns
Pulse duration	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	100 ns	0,84 ns
			200 ns	1,48 ns
			300 ns	2,40 ns

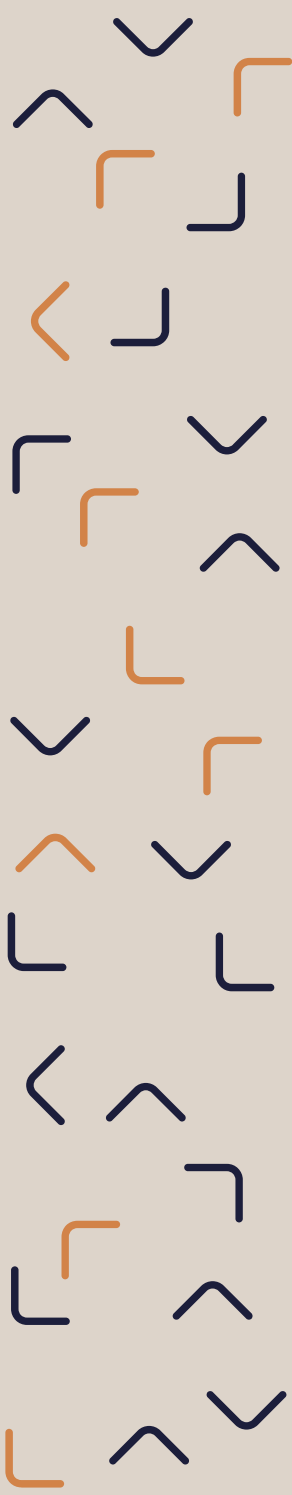
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	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	100 ns	0,84 ns
			200 ns	1,48 ns
			300 ns	2,40 ns
	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	100 ns	0,84 ns
			200 ns	1,48 ns
			300 ns	2,40 ns
	Equivalent input noise LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	20 dB	$0,204 \cdot 10^{-9} \text{ V/Hz}^{0,5}$
			30 dB	$0,065 \cdot 10^{-9} \text{ V/Hz}^{0,5}$
			40 dB	$0,021 \cdot 10^{-9} \text{ V/Hz}^{0,5}$
		Ultrasonic phased array equipment	20 dB	$0,204 \cdot 10^{-9} \text{ V/Hz}^{0,5}$
			30 dB	$0,065 \cdot 10^{-9} \text{ V/Hz}^{0,5}$
			40 dB	$0,021 \cdot 10^{-9} \text{ V/Hz}^{0,5}$
Linearity of vertical display	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	(5...100) %	0,6 % FSH
	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	(5...100) %	0,6 % FSH
Accuracy of calibrated attenuator	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	(0,5...100) dB	0,13 dB
	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	(0,5...100) dB	0,13 dB
	LST EN ISO 15548-1 (verification level 2) ISO 15548-1 (verification level 2)	Eddy current test instruments	(0,5...100) dB	0,13 dB
Channel gain variation	LST EN ISO 22232-1 (group 2) ISO 22232-1 (group 2)	Ultrasonic flaw detectors	(0...3) dB	0,13 dB
	EN ISO 18563-1 (group 2) ISO 18563-1 (group 2)	Ultrasonic phased array equipment	(0...3) dB	0,13 dB
Hardness	LST EN ISO 6508-2 (indirect verification, chapter 6) ISO 6508-2 (indirect verification, chapter 6) ASTM E18 (chapter A1.4 sk., annex X2.6)	Rockwell hardness testing machine	(10...30) HRC	0,38 HRC
			(35...55) HRC	0,33 HRC
			(60...70) HRC	0,32 HRC
			(10...50) HRB (W)	1,01 HRB (W)

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Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty
Hardness	LST EN ISO 6506-2 (indirect verification, chapter 6) ISO 6506-2 (indirect verification, chapter 6) ASTM E10 (chapter A1.4 sk., annex X2.6)	Brinell hardness testing machine	(60...80) HRB (W)	0,88 HRB (W)
			(85...100) HRB (W)	0,43 HRB (W)
			<250 HBW10/3000	1,74 HBW10/3000
			(250...450) HBW 10/3000	3,44 HBW10/3000
			> 450 HBW 10/3000	6,05 HBW10/3000
			<100 HBW2,5/62,5	0,87 HBW2,5/62,5
Hardness	LST EN ISO 6507-2 (indirect verification, chapter 6) ISO 6507-2: (indirect verification, chapter 6) ASTM E92 (chapter A1.4 sk., annex X1.6)	Vickers hardness testing machine	≤ 250 HV	1,06 HV5
				0,97 HV10
				0,97 HV0,2
				0,95 HV0,5
				0,95 HV1
				1,05 HV30
			(400...600) HV	2,09 HV5
				2,09 HV10
				2,07 HV0,2
				2,03 HV0,5
				2,01HV1
				2,11 HV30
			> 700 HV	3,65 HV5
				3,58 HV10
				3,80 HV0,2
				3,61 HV0,5
				3,58 HV1
				3,56 HV30
Absorbed energy	LST EN ISO 148-2	Charpy impact testing machines Energy range (0...450) J	<40 J	0,7 J

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Length	ISO 148-2 (indirect verification, chapter 6)	Charpy impact testing machines Energy range (0...450) J	≥40 J	2,1 % KV _R
	ASTM E23 (indirect verification, chapter A2.4.)		Low (13...20) J	0,125 J
			High (88...136) J	0,6 %
			Superhigh (176...244) J	4,4 %
	LST EN ISO 9513 EN ISO 9513	Extensometer	(0,01...0,70) mm	0,11 µm (EN)/ 0,13 µm (ASTM)
			0,80 mm	0,12/0,15 µm
	ASTM E83 (except Appendix A1)		0,90 mm	0,12/0,15 µm
			1,00 mm	0,11/0,13 µm
			3,25 mm	0,11/0,13 µm
			5,50 mm	0,11/0,14 µm
			7,75 mm	0,16/0,18 µm
			10,00 mm	0,20/0,22 µm
			20,00 mm	0,40/0,41 µm
			30,00 mm	0,60/0,61 µm
Force	LST EN ISO 7500-1 ISO 7500-1: 2018	Tensile testing machine (0...50) kN	40,00 mm	0,80/0,80 µm
			50,00 mm	1,00/1,00 µm
			5 kN	2,16 N
			10 kN	2,92 N
			15 kN	4,28 N
			20 kN	5,46 N
			25 kN	6,55 N
			30 kN	7,54 N
			35 kN	8,79 N
			40 kN	9,63 N
			45 kN	10,83 N



Calibration and measurement capability (CMC) expressed as:				
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty
Force	ASTM E4 (chapter C, appendix X2)	Tensile testing machine (0...500) kN	50 kN	12,53 N
			50kN	45,5 N
			100kN	50,0 N
			150kN	69,0 N
			200kN	102,0 N
			250kN	102,5 N
			300kN	114,0 N
			350kN	101,5 N
			400kN	100,0 N
			450kN	103,5 N
			500kN	110,0 N
		Tensile testing machine (0...50) kN	5 kN	1,93 N
			10 kN	2,16 N
			15 kN	2,39 N
			20 kN	2,92 N
			25 kN	3,35 N
			30 kN	3,69 N
			35 kN	4,28 N
			40 kN	4,87 N
			45 kN	5,02 N
			50 kN	5,56 N
		Tensile testing machine (0...500) kN	50 kN	21,0 N
			100 kN	28,0 N
			150 kN	36,0 N
			200 kN	46,0 N
			250 kN	55,0 N



Calibration and measurement capability (CMC) expressed as:				
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty
			300 kN	66,0 N
			350 kN	73,5 N
			400 kN	84,0 N
			450 kN	94,5 N
			500 kN	105,0 N

* One degree of flexibility is defined and applicable for the whole accreditation scope:
Flexibility case 1 - application of new editions or replacement of documents describing calibration methods in the scope of accreditation, where the changes do not affect the CMC.
Actual scope of accreditation is available on website <https://dekra-industrial.lt>

Note. In case of any discrepancies, ambiguities or disputes regarding the subject matter content between the English and Lithuanian versions of the document, the Lithuanian version shall prevail.

The accreditation certificate is signed with a qualified electronic signature as an attachment to the order of the Director of the National Accreditation Bureau, by which it was approved