Hellenic Accreditation System

Annex F2/7 to the Certificate No. **141**-4

SCOPE of ACCREDITATION

of the

Dimensional Metrology and Calibration Laboratory

of

Hellenic Defense Systems S.A.

Measurand / Calibration item	Range of measurement	Calibration & Measurement Capability (k=2)*	Remarks
Dimensional measurements			
Gauge blocks made of steel, category 0, 1, 2	(0,5≤ln≤10) mm (10<ln≤25) mm (25<ln≤50) mm (50<ln≤75) mm (75<ln≤100) mm	0,088 μm 0,091 μm 0,098 μm 0,110 μm 0,124 μm	Calibration using mechanical comparator according to ELOT EN ISO 3650 : 1998
Internal distance between parallel surfaces	(5 - 150) mm	2,21 μm	Gauge block slip calibration.
External diameter of plug / ring	D≤300 mm	0,87 μm	Calibration using machine SIP -302 M
Internal diameter of ring	(10 – 205) mm	1,04 μm	Calibration using machine SIP -302 M
Equivalent and basic diameter of external thread of plug / ring	M1 – M150	2,84 μm	Calibration using machine SIP -302 M
Thread external diameter of	Diameter up to 250 mm	2,84 μm	Calibration using

Measurand / Calibration item	Range of measurement	Calibration & Measurement Capability (k=2)*	Remarks
plug / ring			machine SIP -302 M
External axial micrometers:			
A. Digital / division 1 μm	(0 – 100) mm	1,48 μm	Calibration using standard gauge blocks of category 1
B. Analog / division 1 μm	(0 – 100) mm	1,47 μm	
C. Analog / division 10 μm	(0 – 50) mm	3,32 μm	
	(50 – 100) mm	3,39μm	
Calipers:			
A. Digital / division 10 μm	(0 – 150) mm	5,94 μm	Calibration using step gauge blocks (Cera caliper) and standard gauge blocks of category 1
B. Analog / division 20 μm	(0 – 150) mm	6,56 μm	
C. Analog / division 50 μm	(0 – 150) mm	16,38 μm	
Dial gauges:			
A. Lever /			Calibration using machine TRIMOS THV (comparing the dial gauge with the dial of HEIDENHEIN)
division 10 μm	0,5 / 0,8 / 1,6 mm	2,90 μm	
division 2 μm	0,2 / 0,24 mm	0,60 μm	
B. Plunger /			
division 10 μm	3 / 5 / 10 mm	2,91 μm	

** Where uncertainty is accompanied by the corresponding unit, it is absolute, while where it is not accompanied by a unit, it is relative.*

Site of assessment: **Permanent laboratory premises, Ilioupoleos Ave 1, Imittos, Attiki, Greece.**
Approved Signatories: **A. Ntokas, P. Tsakonas.**

This Scope of Accreditation replaces the previous one dated 10.01.2013.
The Accreditation Certificate No. **141**-4, to ELOT EN ISO/IEC 17025:2005, has been extended up to 15.09.2019.

Athens, 12th May 2016

Ioannis Sitaras
Director of the Laboratories Accreditation Division