Korea Laboratory Accreditation Scheme

CERTIFICATE OF ACCREDITATION

HYUNDAI WIA Corporation

Accreditation No.: KC02-088

Corporation Registration No.: 194211-0000125

Address of Laboratory 153, Jeongdong-ro Changwon-si Gyeongsangnam-do,

Address of Laboratory: Republic of Korea

Date of Initial Accreditation: January 30, 2002.

Validity of Accreditation: July 30, 2023. ~ July 29, 2027.

Scope of Accreditation: Attached Annex

Date of issue: July 25, 2023.

This calibration laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).





Head

Korea Laboratory Accreditation Scheme

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 & KS Q ISO/IEC 17025:2017

Hyundai-Wia

154, Jeongdongro, Seongsan-gu, Changwon, Gyeongnam, 51537, Korea Phone: 010-4875-0035, Fax: -, e-mail: kjahn@hyundai-wia.com

CALIBRATION

Valid To: Jul. 29, 2027. Accreditation No: KCO2-088

In recognition of the successful completion of the KOLAS evaluation process, accreditation is granted to this laboratory to perform the following calibrations

Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site
102. Li	102. Linear dimension							
10214	Gauge blocks, by comparison	N						
10216	Height gauges/measuring machines	N						
10228	Cylindrical plug/pin gauges,	N						
	Thread measuring wire gauges							
106. Va	rious dimensional							
10601	Inside/Outside/ calipers	N						
10603	Cylinder/Bore gauges	N						
10605	Dial/Digital gauges	N						
10619	Micro indicators, Test indicators	N						
10612	Inside micrometers	N						
10613	Outside micrometers	N						
203. To	rque							
20303	Torque wrenches/drivers	N						

Note

- 1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
- 2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-007.
- 3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
- 4. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of k=2. It expresses the lowest uncertainty of measurement that can be provided by accredited calbration laboratories in normal conditions.
- 5. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.

Accreditation No. : KCO2-088

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Gauge blocks, by comparison	10214	(0 ~ 100) mm	$\sqrt{0.11^2 + 0.0015 \times l_0)^2}$ µm	Comparators, gauge block /WCQG-01-EJ-001
Height gauges/measuring machines	10216	(0 ~ 600) mm	$\sqrt{10^2 + (0.006 \times l_0)^2} ~ \mu \mathrm{m}$	calipers tester /WCQG-01-EJ-003
Cylindrical plug/pin gauges, Thread measuring wire gauges	10228	(0 ~ 100) mm	0.6 µm	Measuring machines,standard /WCQG-01-EJ-009

Notes) l_0 UNIT : mm

106. Various dimensional

Measured Quantity Instrument or Gauge	Field Code	Range	CMC (The Confidence Level is about 95 %)	Comments
Inside/Outside/ calipers	10601	(0 ~ 600) mm	$\sqrt{14^2 + (0.006 \times l_0)^2} \ \mu \text{m}$	calipers tester /WCQG-01-EJ-007
Cylinder/Bore gauges	10603	(0 ~ 400) mm	0.9 µm	Dial gauges Tester /WCQG-01-EJ-010
Dial/Digital gauges	10605	(0 ~ 25) mm	0.9 µm	Dial gauges Tester /WCQG-01-EJ-004
Micro indicators, Test indicators	10619	(0 ~ 1) mm	0.9 µm	Dial gauges Tester /WCQG-01-EJ-012
Inside micrometers	10612	(5 ~ 200) mm	$\sqrt{0.8^2 + (0.003 imes l_0)^2}$ µт	Gauges blocks /WCQG-01-EJ-006
Outside micrometers	10613	(0 ~ 500) mm	$\sqrt{0.9^2 + (0.003 imes l_0)^2}$ µт	Gauges blocks /WCQG-01-EJ-005

Notes) l_0 UNIT : mm

203. Torque

Measured Quantity Field Instrument or Gauge Code		CMC Range (The Confidence Level is about 95 %)		Comments	
Torque wrenches/drivers	20303	(0.5 ~ 5) N·m	7.7×10^{-3}	Torque testers, electrical	
		(5 ~ 10) N·m	4.6×10^{-3}	/WCQG-01-EJ-026	
		(10 ~ 25) N·m	1.8×10^{-3}		
		(25 ~ 50) N·m	4.2×10^{-3}		
		(50 ~ 100) N·m	7.7×10^{-3}		
		(100 ∼ 250) N·m	9.6×10^{-3}		
		(250 ∼ 500) N·m	11×10^{-3}		
		(500 ~ 1 000) N·m	5.5×10^{-3}		