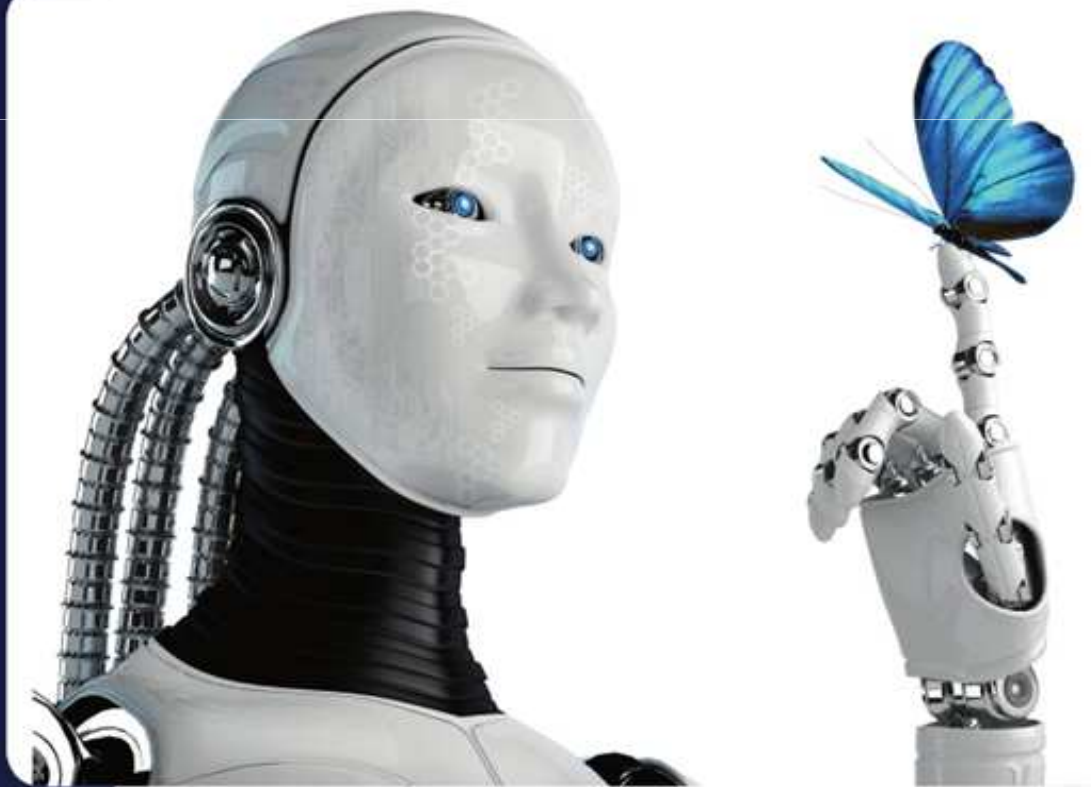


Newsletter May, 2020



ICR



Hot Issue

1. **Accreditation Certificate Reissued by KOLAS**
2. **EG-RTP and ICR Training Program**
3. **Certificate of Personnel Competence (IECEX CoPC)**
4. **DOF Vibration Test System With Environmental Test Chamber**
5. **South Africa news on Non-Type approved equipment**



Accreditation Certificate Reissued by KOLAS



Korea Laboratory Accreditation Scheme

CERTIFICATE OF ACCREDITATION

ICR Co., Ltd.

Accreditation No. : KT652

Corporation Registration No. : 110111-2431479

Address of Laboratory : 112, Hwanggeum 3-ro 7beon-gil Yangchon-eup, Gimpo-si,
Gyeonggi-do

date of Initial Accreditation : January 16, 2015

Duration : January 16, 2019 ~ January 15, 2023

Scope of Accreditation : Attached Annex

Date of issue : April 28, 2020

This testing 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 Communique).



LEE Seung Woo

Administrator
Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme(KOLAS) is a signatory of the ILAC mutual recognition arrangement

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On April 28, 2020, the accreditation certificate is reissued according to **KS Q ISO/IEC 17025:2017** by **KOLAS**.

EG-RTP and ICR Training Program



■ Exemplar Global – RTP Training Program

- ▶ ICR International Certification Registrar Ltd. Is an auditor training provider directly registered to Exemplar Global.
- ▶ The RTP training program is a program that allows auditor training provider to freely develop and provide training courses by continuously meeting the requirements of a certified training program.
- ▶ ICR will develop and provide a variety of training courses according to the RTP and TPECS programs.

■ ICR Training Program

- ▶ ICR will provide various training services to customers by developing ICR training programs.
- ▶ For more information, will be announced on the ICR website in May.

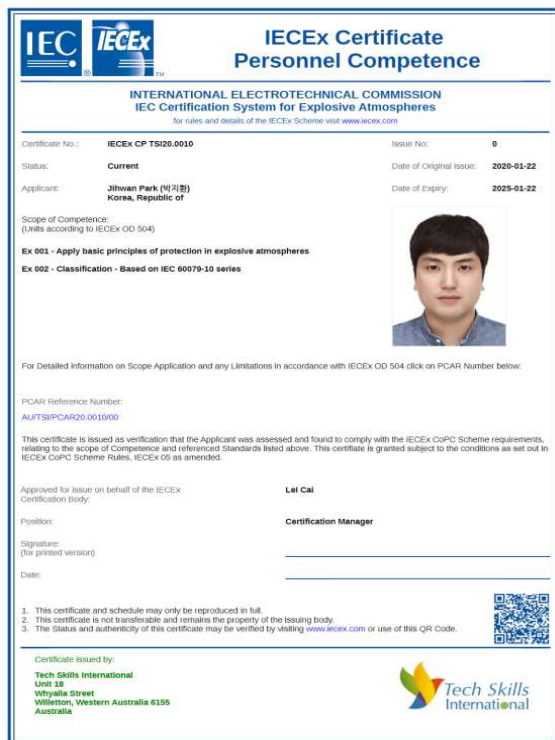
 **Inquiries**

System Certification Div. / Kim, Chae-Lin
T.02-6351-9001 / kcl@icrqa.com

Certificate of Personnel Competence (IECEX CoPC)



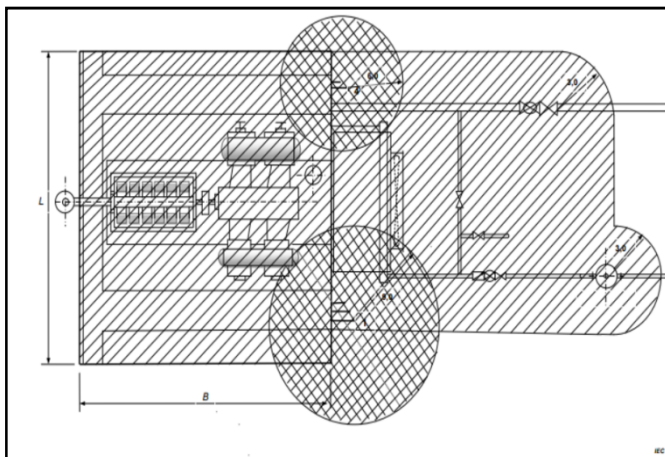
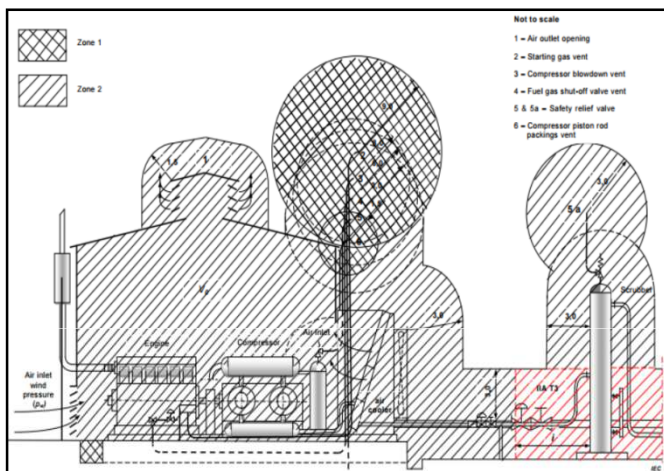
- **ATEX members acquire the Certificate of Personnel competence (IECEX CoPC)** and provide technical support to customers based on their professional knowledge and skills to help them **obtain certification more easily and quickly.**



Certificate of Personnel Competence (IECEx CoPC)



- **ATEX members** acquire the **IECEx CoPC Unit 002** and provide customers with services for **the classification of hazardous area** according to **IEC 60079-10-1, IEC 60079-10-2.**



5) Estimation of hazardous area
 According to IEC 60079-10-1:2015

a) Degree of Dilution: High Dilution
 : According to IEC 60079-10 Annex C
 (Figure C-1- Chart for assessing the degree of dilution)

b) Availability of Ventilation: Fair
 : According to IEC 60079-10-1:2015, Annex C.3.4
 For naturally ventilated enclosures and for open areas, the ventilation velocity should be assessed as the velocity that is exceeded 95 % of the time.
 The availability of this ventilation can be considered to be 'fair'.

c) Sources of release: Sources giving a secondary grade of release
 : According to IEC 60079-10-1:2015, Annex B.2.4 Sources giving a secondary grade of release.
 Flanges, connections and pipe fittings, where release of flammable substance is not expected during normal operation.

Inquiries

Industrial Safety Center / Yang Dae-song
 T.02-6351-9001 / yds@icrqa.com

DOF Vibration Test System With Environmental Test Chamber



■ Purpose of Evaluation

- ▶ Evaluation of noise characteristics for product and component tolerances
- ▶ Structural design feasibility assessment for single and finished products
- ▶ Evaluate the degree of deterioration due to long duration
- ▶ Preliminary evaluation of noise problems that may occur during assembly and production



■ BSR

- ▶ BUZZ(버즈), Squeak(스퀴크), Rattle(래틀)
 - This is a generic term for annoying sounds that cause customer dissatisfaction with noise generated while driving a vehicle.



DOF Vibration Test System With Environmental Test Chamber

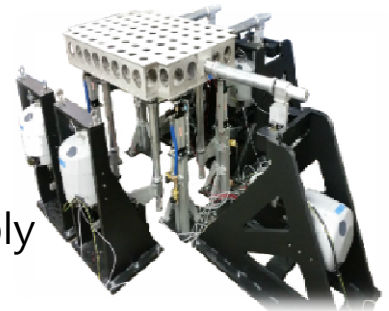


■ Occur Cause

- ▶ Design and production stages
 - Assembly characteristics, seam finish,
 - Material selection, fastening characteristics,
 - Lack of rigidity etc.
- ▶ User steps
 - Operating endurance, vibration endurance, environment
 - Changes in durability and fastening conditions etc.

■ Equipment Components

- ▶ 6-axis Exciter(MB Dynamics)
 - Power Amplifier
 - Electricity through vibration amplification device generation of vibration through supply
 - Shaker
 - It is controlled by a PC through a sensor and has a profile suitable for the vehicle model
 - **Installation of 7 units for 6-axis simultaneous excitation**
 - Vibrator control PC
 - Control the exciter such as excitation profile, vibration level, vibration mode



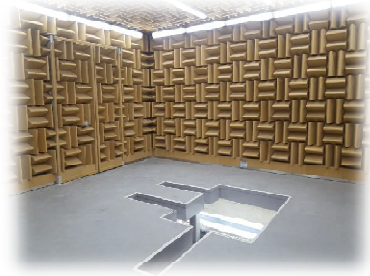
DOF Vibration Test System With Environmental Test Chamber



■ Equipment Components

▶ High and low temperature complex environment anechoic chamber (STI)

- Anechoic chamber
Air conditioner Off : $\leq 25\text{dB(A)}$
Air conditioner On : $\leq 30\text{dB(A)}$
- Anechoic chamber
Temp. : $-40 \sim 80^{\circ}\text{C}$
Humid. : $50 \pm 5\%$



▶ Noise measurement equipment (HEAD Acoustics)

- HEADlab Front-End
 - Measure the generated noise and save it as data
- Microphone
 - Measure the noise generated by the product due to vibration



DOF Vibration Test System With Environmental Test Chamber

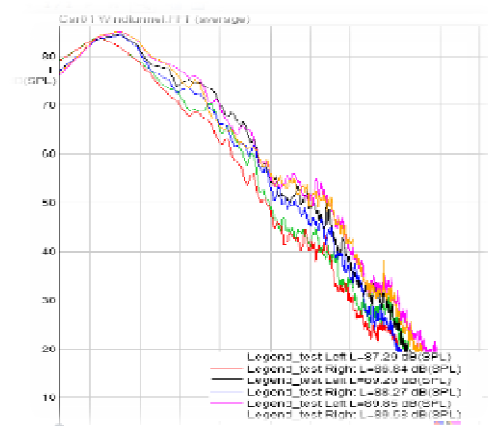


■ Equipment Components

▶ Noise analysis equipment (HEAD Acustics)

- HEAD Artemis

- The noise data generated through Front-End is Spec. Analysis under conditions suitable for
- Acoustic psychology module
- Analysis of Loudness, Sharpness, Roughness, etc.



DOF Vibration Test System With Environmental Test Chamber



■ Equipment Specifications

Shaker type		Permanent Magnet Electro-Dynamic Shaker
Background Noise		≤30dB(A), 1.5 sone at running
Frequency Range		DC – 200Hz
Dynamic Stroke		50mm pk to pk (vertical direction) 25mm pk to pk (Fore-aft, Lateral, Roll, Pitch, Yaw)
Max Payload		Up to 500kg
Temperature Range		-40 ~ 80°C
Excitation Direction		Multi-axis (up to 6 axes) with simultaneous or sequential / 7 units
Control		Sine/Random/Time History
Feature		Comply with HKMC ES SPEC, GMW, Ford Spec
Effective Size		7.0 (W) × 7.2 (L) × 3.0 (H)m
Background Noise	Facilities Off	≤25dB(A)
	Facilities On	≤30dB(A)
Cut-off Frequency		250 Hz
Temperature Condition		-40 ~ 80°C
Humidity Condition		50±5% (23±3°C)
Completion Date		December. 2017

 **Inquiries**

Mobility Center / Lee, Han-Kook
T.010-5522-1825 / lhk9876@icrqa.com

South Africa news on Non-Type approved equipment



- On 14th February, **South Africa ICASA** (Independent Communications Authority of South Africa) on a joint operation with the South African Police Services we confiscated various non type-approved (unlicensed) communication gadgets in Mahikeng. Confiscated goods include 55 phones and 350 Bluetooth speakers.
- It is illegal to import, retail or use communication equipment or gadgets that are not approved by ICASA.
- Should you have any enquiry or request for **ICASA Type approval**, please do not hesitate to contact us for assistance. We've **provide Type approval certificate within 4 weeks** lead time and issue certificate number in advance if necessary



☎ Inquiries

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