



# Company Introduction





## Introduction to NADA

- 1 **About NADA**
- 2 **NADA Solutions**
- 3 **NADA Customers**
- 4 **NADA Certificates**
- 5 **Worldwide Support**

# 1. About NADA

With over two decades' expertise in vibration/condition monitoring & analysis and predictive maintenance, NADA can offer you the most reliable, high performance and cost-effective solutions for your rotating machinery.

*“How do you communicate with machines?”*



*“Machines speak to us in **VIBRATION.**”*



## 2. NADA | Solutions

NADA - Your **ONE** source for rotating machinery monitoring solutions



### ► Sensors

- Proximity Probes
- Accelerometers
- Piezoelectric Velocity Sensors
- Wireless Accelerometers
- Hazardous Area Sensors & Barriers
- Etc.

### ► V-net 7000 System

- TSI (Turbine Supervisory Instrumentation)
- MPS (Machinery Protection System)
- Continuous online protection, condition monitoring & diagnostics for critical machinery

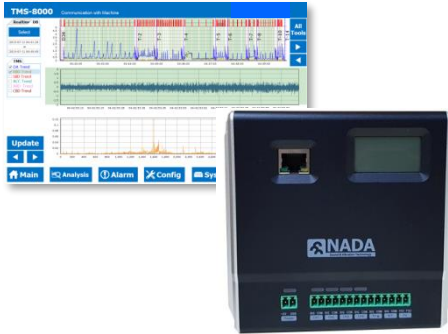
### ► V-net 3000 System

- CMS (Condition Monitoring System)
- Predictive & preventive maintenance for general purpose machinery

### ► V-net Software Package

- T-Server
- T-Configuration
- T-Monitor
- T-Report

## 2. NADA | Solutions



### ► TMS-8000

- Machine Tool Monitoring System
- Complete monitoring system for machine tools combining vibration & current analysis
- Tool damage & abrasion, bearing defects, fabrication condition (e.g., chatters)



### ► QMS-2000

- Quality Management System
- Comprehensive monitoring system for improving the qualities of automobile transmission, compressor, motor, etc.
- Root cause analysis, quality control, OK/Not OK decision making in production lines



### ► VibLow 7000

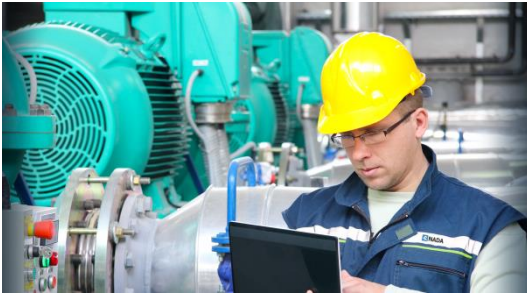
- 16 Ch Portable Vibration Analyzer
- Real-time signal processing, data acquisition & analysis



### ► VibLow CXII Plus

- 8 Ch Portable Vibration Analyzer
- Real-time signal processing, data acquisition & analysis

## 2. NADA | Solutions



### ► PdM (Predictive Maintenance) Service

- NADA's ISO 18436-2 Category III experts to your sites for an objective diagnosis
- Professional weekly/monthly in-depth reports about your equipment's condition
- Risk assessment, recommendation for the optimal timing for maintenance

#### Main Functions

- ◆ **Condition Monitoring:** Evaluating machinery's condition based on vibration data
- ◆ **Diagnosis Evaluation:** Diagnosing each problematic machinery and evaluating the causes of problems
- ◆ **Health Evaluation:** Evaluating the health of each machinery, line, or entire plant via vibration analysis. Predicting possible problems that may arise during normal operation

#### Expected Effects

- ◆ You can minimize unexpected failures
- ◆ You can evaluate the health of machinery and build a database using the health indexes. These data can later be used to preserve the machinery
- ◆ You can learn about the cause of a failure and come up with prevention plans

#### Plans

- ◆ NADA's vibration analysis experts will be dispatched from the closest branch and perform the PdM service.
  - 1) Installing sensors on machinery
  - 2) Measuring vibrations periodically by using a portable analyzer (at least once a week)
  - 3) Reporting – Monthly reports

#### PdM

#### Applications

- ◆ Equipment Condition Assessment: Samsung, Hankook Tires, POSCO, etc.
- ◆ Safety Inspection: SK, Incheon drain pump, Kotec, etc.
- ◆ Troubleshooting : Hyundai motors, Kumho petrochemistry, etc.
- ◆ Others : Renault Samsung motors, Kogas, etc.
- ◆ PdM services to Hyundai Alabama & Georgia plants, DYK

## 2. NADA | Solutions

### ► ISO 18436-2 Training Center (Authorized by the Vibration Institute)

NADA Co., Ltd. became an authorized training center for vibration analysis training program (ISO18346-2) by making an exclusive contract with the Vibration Institute in 1999. We have trained about 5,000 engineers and We are dedicated to contribute to the enhancement of national competitiveness.



#### Area I(Beginner)

- Training of monitoring specialists
- Being able to measure vibrations, monitor trends, and predict the timing of a future breakdown by using Data Collector

#### Area II(Intermediate)

- Training of diagnosis specialists
- Includes Area I
- Being able to analyze vibrations & failures by using multi-channel FFT analyzer

#### Area III(Expert)

- Training of sound & vibration control specialists
- Includes Area I & II
- Being able to increase or decrease vibrations with ease

#### Area IV(Expert)

- Training of advanced equipment administrators
- Includes Area I & II & III
- Being able to measure & analyze all kinds of mechanical vibrations

# 3. NADA | Customers

## Power Plant

- [EWP] Remote Vibration Monitoring System (2017)
- [HEC] VMS for Indonesia KALSEL-1 Power Plant (2016)
- [KHNP] Portable VMS for the Central Research Center (2016)
- [KHNP] PI System™ Maintenance Contract (2016)
- [KHNP] PI System™ for UAE Barakah Nuclear Power Plant (2016)
- [KOEN] PI System™ for Yeongheung Power Plant Unit 1-4 (2016)
- [KHNP] VMS for Uiam Hydro Power Plant Unit 1 & 2 (2016)
- [KHNP] VMS for Shin Kori Nuclear Power Plant Unit 5 & 6 (2015)
- [KHNP] VMS for Kori Nuclear Power Plant Unit 3 (2015)
- [KHNP] VMS for Kori Nuclear Power Plant Unit 4 (2015)
- [KHNP] Pipe VMS for UAE Barakah Nuclear Power Plant (2015)
- [EWP] TSI/VMS for Donghae Coal-fired Power Plant Unit 1 (2015)
- [EWP] TSI/VMS for Donghae Coal-fired Power Plant Unit 2 (2015)
- [EWP] VMS for Dangjin Coal-fired Power Plant FGD Unit 1-4 (2015)
- [EWP] TSI/VMS for Dangjin Coal-fired Power Plant Unit 3 (2014)
- [EWP] TSI/VMS for Dangjin Coal-fired Power Plant Unit 4 (2014)
- [KHNP] TSI for Kori Nuclear Power Plant Unit 3 (2014)
- [KHNP] TSI for Kori Nuclear Power Plant Unit 4 (2014)
- [KHNP] VMS for Hanbit Nuclear Power Plant (2013)
- [KEPCO KPS] Turbine Monitoring System...and more

## Oil & Gas/ Petrochem / Tire / Steel

- [ONGC] VMS for India Dahej Plant
- [KOGAS] VMS for Pyeongtaek LNG Terminal Plant
- [Hyundai Oil Bank] Condition Monitoring Consulting
- [SK Innovation] VMS for Korea Seonsan Plant
- [Samsung SDI] VMS for Korea Ulsan/Giheung Plant
- [Samsung SDI] VMS for China Tianjin/Jiangsu Plant
- [Samsung SDI] VMS for Hungary Plant
- [Samsung SDI] VMS for Malaysia Plant
- [Hu Chems] VMS for Jilsan Plant
- [Kolon] VMS for Korea Gumi/Gimcheon/Gyeongsan Plant
- [Kolon Benit] VMS for Giheung Plant
- [Hankook Tire] VMS for Korea Geumsan/Daejeon Plant
- [Hankook Tire] VMS for China Xiasing/Jiangsu Plant
- [Hankook Tire] VMS for USA Tennessee Plant
- [Hankook Tire] VMS for Indonesia Plant
- [Hankook Tire] VMS for Hungary Plant
- [Kumho Tire] VMS for USA Georgia Plant
- [Nexen Tire] VMS for Korea Plant
- [POSCO] VMS for Gwangyang Plant – Zinc Pot
- [POSCO] CMS for Raw Material Transportation System...and more

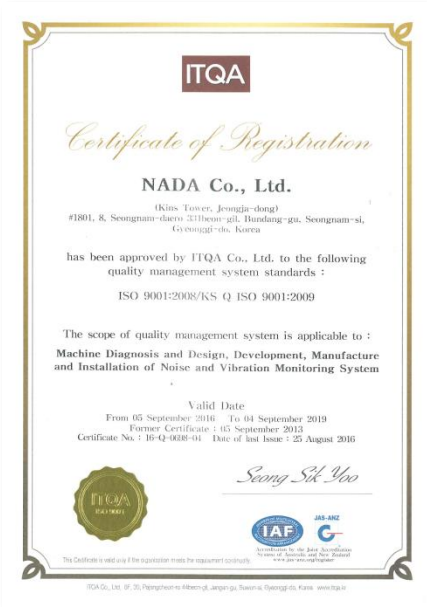
## Automobile/Machine Tool/Etc.

- [Hyundai Mobis] Smart Factory for Mexico MMX Plant
- [Hyundai] VMS for USA Alabama/Georgia Plant
- [Hyundai] VMS for Korea Ulsan Plant
- [Hyundai] QMS for India Plant
- [Hyundai] Auto Shift Fault Analysis System for Czech Plant
- [Hyundai] Machine Tool Monitoring System
- [Kia] Cold Tester Fault Analysis System for Korea Hwaseong Plant
- [DYK] VMS for China Plant #1, #2, #3
- [Doosan Infracore] CMS for Heavy BG Frame Plant
- [Doosan Infracore] CMS for Engine BG G2 Plant
- [Doosan Infracore] Machine Tool Monitoring System
- [Iljin Global] Bearing Tester
- [Iljin Global] Bearing Fault Analysis System
- [Dongah Automotive] Bearing Fault Analysis System
- [BOE] CMS for Panel Transportation System
- [Myeonghwa] Fault Analysis System for Auto Transmission
- [Myeonghwa] Fault Analysis System for EQP
- [LG Display] CMS for Panel Transportation System
- [K-Water] CMS for Korea Gyeongnam Water Intake Station
- [KORAIL] Fault Analysis System for High-Speed Train...and more

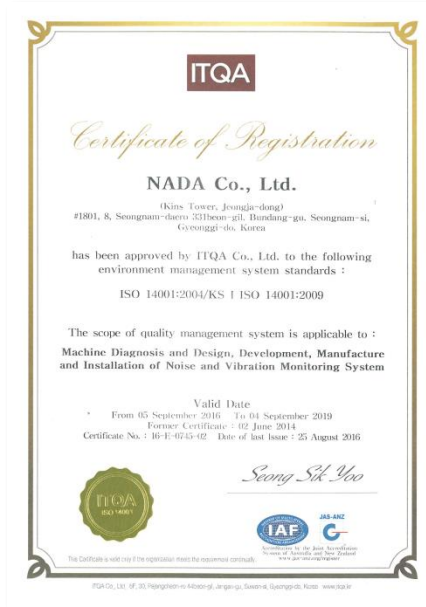




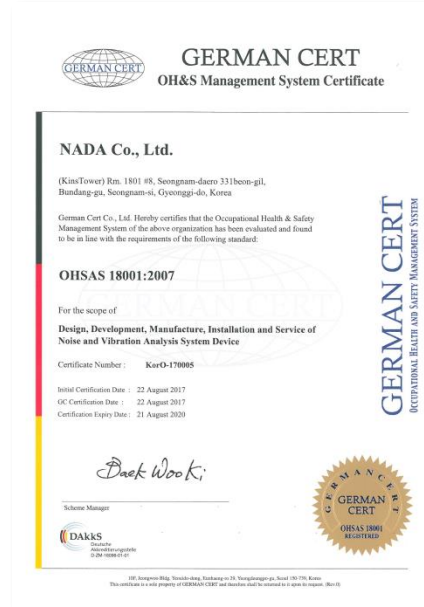
# 4. NADA | Certificates



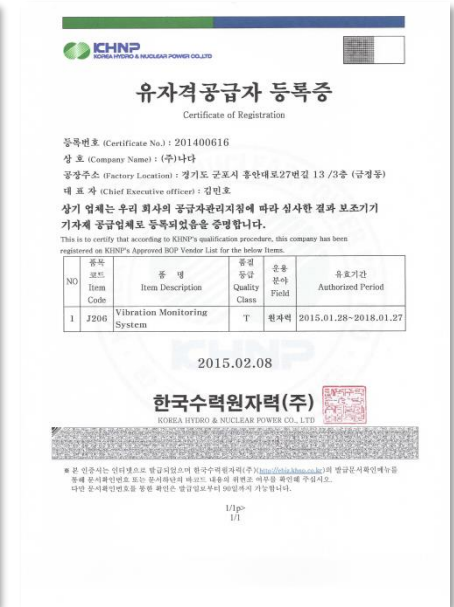
▶ ISO 9001



▶ ISO 14001



▶ OHSAS 18001



▶ Certificate of Registration  
: Approved VMS Supplier of  
Korea Hydro Nuclear Power

## 5. NADA | Worldwide Support





1801 Kins Tower, 8, Seongnam-daero 331 beon-gil,  
Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea (13558)

Phone : +82-31-8017-7820

Fax : +82-31-8017-7824

E-mail : [marketing@nada.co.kr](mailto:marketing@nada.co.kr)

[www.nada.co.kr](http://www.nada.co.kr)