



NOKWON

**Company Specialized
in Hydraulic and BWTS Pipes**

- Construction Equipment Parts
- Defense Industry Parts
- Shipbuilding & Marine Parts
- Ship Engine Parts
- Connectors, Flanges, Fittings and Blocks



Message from the CEO



**Customer Satisfaction,
Reliable and Trustworthy Company**

NOKWON satisfying its customer with the Best Products

Since its establishment in 1996, NOKWON has provided products to Hyundai Construction Equipment, Mottrol and HSD Engine based on its extensive knowhow and advanced technologies as a professional manufacturer of pipe assemblies for various construction equipment, defense industry, shipbuilding & marine industry and ship engine industry. We are also supplying hydraulic connectors, flanges, fittings and plugs.

In terms of manufacturing facilities, we have enough facilities such as robots, automatic welding machine and CNC bending machine. We hold ISO9001, ISO14001, patents and various system certificates such as Ppuri (Root) Technology Business and have accomplished US 5 Million Export Tower. As a result, we have been praised as 'Small Giant' from our customer and government agencies.

We promise that we would keep growing together with our customer by providing the best products from their perspectives under any circumstances.

Thank you

Shin Mi-kyeong,
CEO of NOKWON CO., LTD.



VISION 2030

Challenge, Change, Communication! **VISION 2030, Global Best Leader**
We keep making our best efforts to evolve into the global best leader
and fulfill our corporate social responsibilities.

Global Best Leader by 2030



History of NOKWON

1990's

1996

- NOKWON INDUSTRIAL established
- Pipe assemblies for construction heavy equipment produced and distributed

1997

- Registered as a tier-1 vendor of HYUNDAI HEAVY INDUSTRIES
- Registered as a tier-1 vendor of DOOSAN MOTTROL

2000's

2001

- NOKWON incorporated
- Obtained ISO 9001

2003

- Shanghai Office established

2007

- Obtained INNOBIZ Certification
- Obtained MAIN-BIZ Certification
- Obtained ISO 14001
- Awarded BRONZE TOWER order of industrial service merit

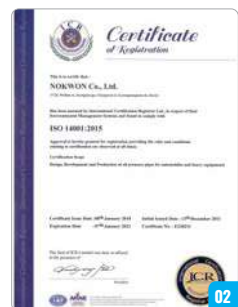
2009

- A functional washing box patented

Certificate



- 01 ISO 9001 : 2015
- 02 ISO 14001 : 2015
- 03 ISO/TS 16949 : 2002
- 04 R&D Center Certificate
- 05 Ppuri Technology Business
- 06 INNOBIZ
- 07 Certificate of Patent (Pipe Welding device, No. 10-1470451)
- 08 Certificate of Patent (Pipe Welding device, No. 10-1526521)
- 09 Certificate of Patent (A Pipe Back-shield Gas Supply Device)
- 10 Certificate of Patent (Space keeping device for pipe welding)
- 11 Certificate of Patent (Support device for pipe welding machine)
- 12 Certificate of Patent (A Double-sided Washing Box with Inner Support)
- 13 Certificate of Patent (A Transport Box Assembly for Metal Pipe)



2020's

2010's

2012

- Head office and factory expanded and relocated (Sinchon-dong)
- R&D Center established
- Named 'GOOD COMPANY TO BE PART OF (INNOBIZ Association)'

2013

- Named 'FAMILY-FRIENDLY ENTERPRISE (Ministry of gender equality and family)'
- Awarded commendation of minister of knowledge economy
- Awarded commendation of minister of employment and labor

2014

- Named 'HOPE IUM GOOD COMPANY TO WORK FOR' (Ministry of industry and trade, Gyeongsangnam-do)
- Named 'Good Human Resources Development Entity' by (Ministry of employment and labor, Ministry of education, Ministry of industry and trade, SMBA)
- Named 'GOOD GYEONGNAM COMPANY TO WORK FOR (Gyeongsangnam-do)'
- Named 'PROMISING EXPORT FIRM (SMBA)'
- Named 'FIELD-RECOMMENDED SMALL GIANT' (Ministry of employment and labor)
- Awarded prime minister's commendation on labor day
- Awarded prime minister's commendation on business women's day
- A pipe welding device patented (No. 10-1470451)

2015

- Obtained KR/ABS Marine Certificate
- Named 'PPURI (ROOT) TECHNOLOGY BUSINESS' (Small and medium business administration (SMBA))
- A pipe welding device patented (No. 10-1526521)
- A pipe back-shield gas supply device patented

2018

- Named 'Changwon Small Giant'
- A metal pipe transport box assembly patented
- A space keeping device for pipe welding patented
- A support device for pipe welding machine patented

2019

- Registered as a tier-1 vendor of HSD ENGINE



Major Business Scope

**NOKWON manufactures
and supplies Perfect and
Reliable Products to Customer.**

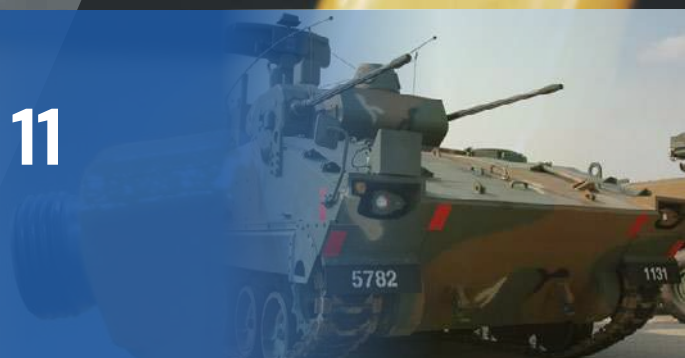
Construction Equipment Parts

P 08



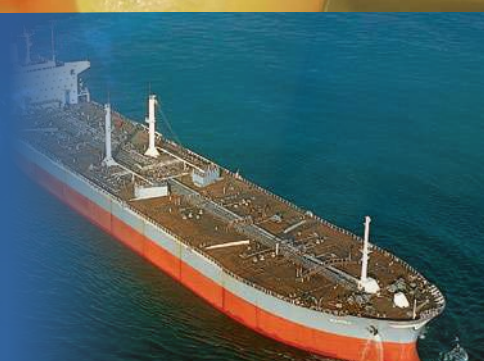
Defense Industry Parts

P 11



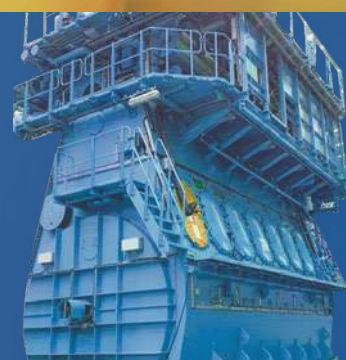
Shipbuilding & Marine Parts

P 12



Ship Engine Parts

P 13



Construction Equipment Parts

Excavators

Suction Pipe Assembly | Low Pressure



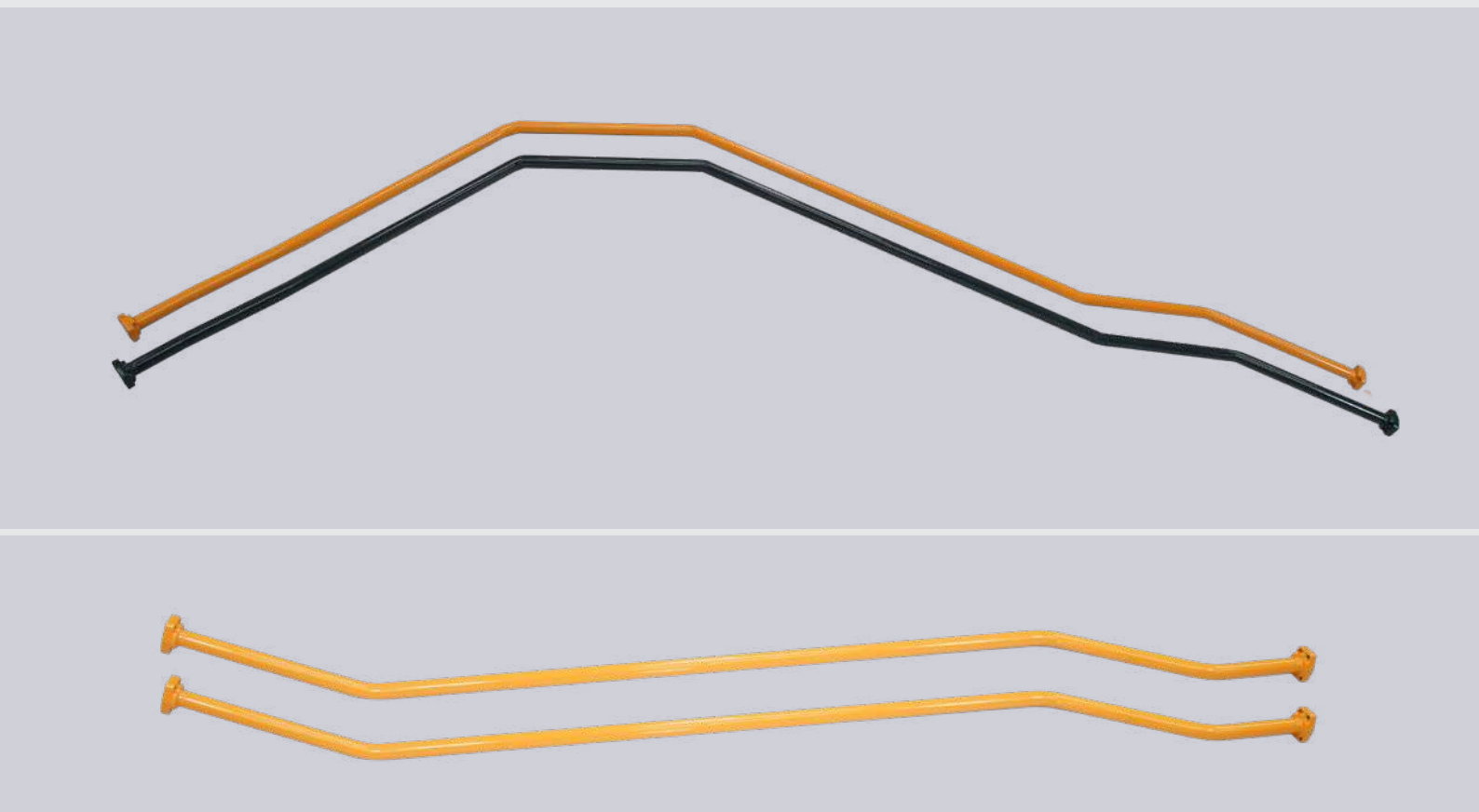
Return Pipe Assembly | Low Pressure



Pipe & Hose Assembly | High Pressure



Attachment Pipe Assembly | High Pressure

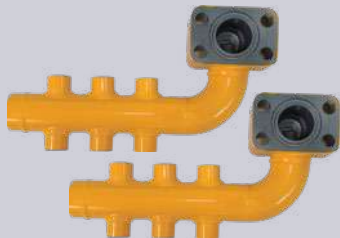


Skid Loaders

Attachment Pipe Assembly | High Pressure

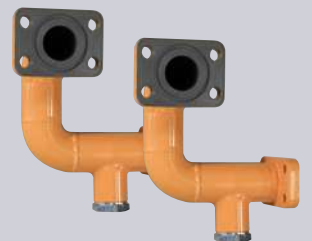


PILOT Pipe Assembly | Low Pressure

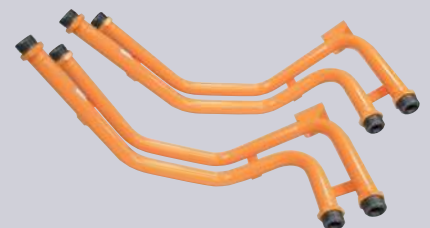


Wheel Loaders

Return Pipe Assembly | Low Pressure

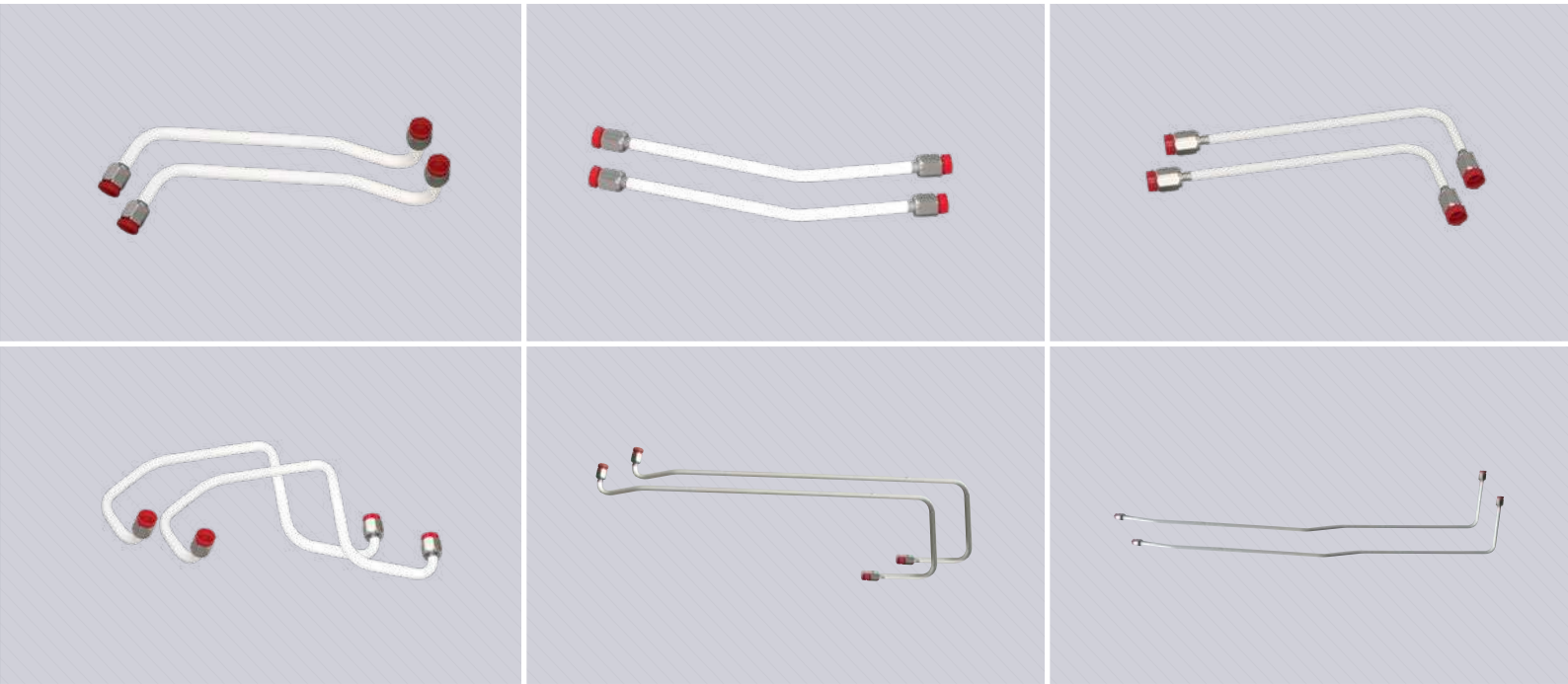


Attachment Pipe Assembly | High Pressure



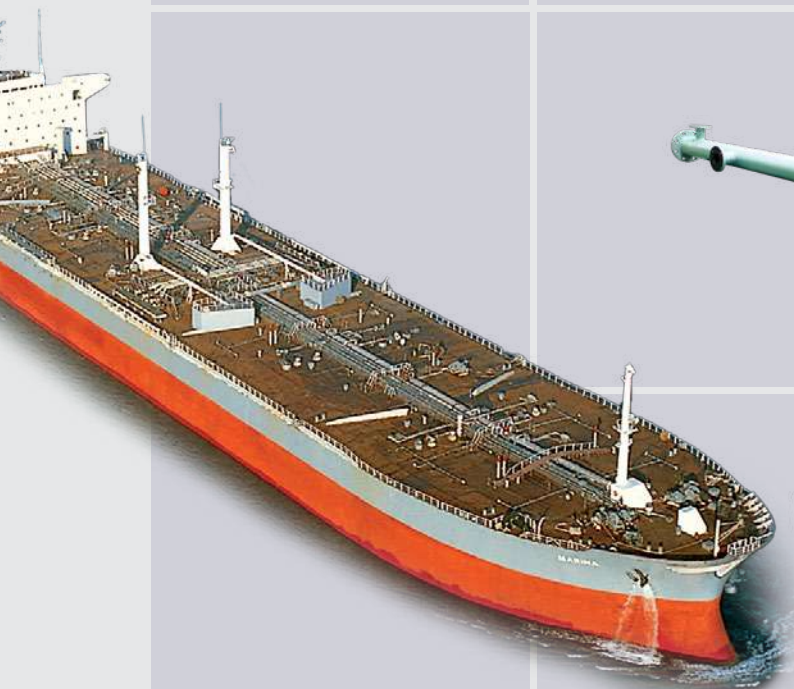
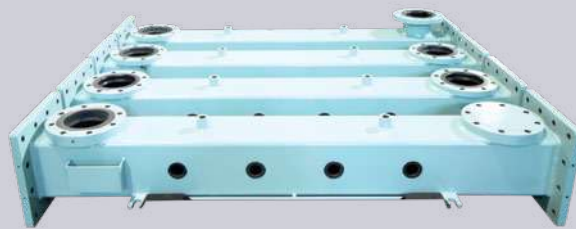
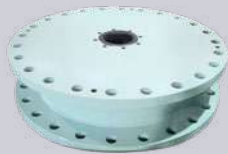
Defense Industry Parts

Hydraulic Pipe Assembly



Shipbuilding & Marine Parts

Ballast Water Treatment System
(BWTS) Tank and Spool



Ship Engine Parts

Telescope Pipe



High Pressure Pipe



Connectors, Flanges, Fittings and Blocks

Assembly



Nipple + Bracket



Nipple



Block



Elbow



Elbow



Plug



Return Check Valve



Return Check Valve



Return Check Valve

Welding



Flange



Flange



Flange



Flange



Fitting



Fitting



Tee



Swivel Nut



Elbow

Manufacturing Process & Facilities

01 Cutting



CNC Cutting M/C

Cutting Outer Diameter	Ø25~ Ø120
Cutable Length	10~8,000mm

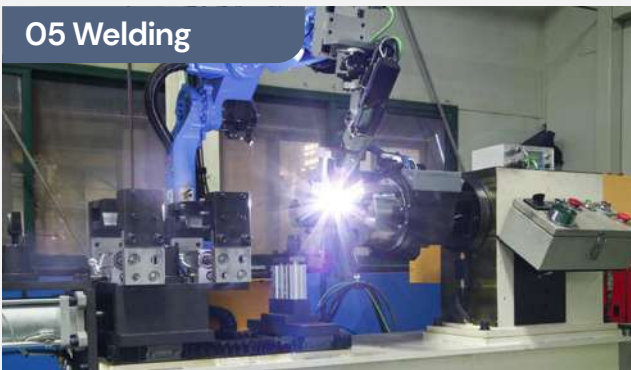
02 Bevelling



Pipe Bevelling

Machining Outer Diameter	Ø27.2~Ø114.3
Machinable Pipe Length	10~2,500mm

05 Welding



Robot Welding M/C

Welding Type	Robot TIG Auto Welding
Outer Diameter	Ø42.7~Ø89.1
Weldable Pipe Length	100mm~6,000mm



Auto Welding M/C

Welding Type	Auto TIG Welding
Weaving Function	45° (Total 90°)
Outer Diameter	Ø21~Ø89.1
Weldable Pipe Length	100~4,500mm

NOKWON has a one-stop manufacturing process from material cutting to painting and assembly. We are proud of our advanced manufacturing processes including CNC bending and auto-welding.

03 Hole Drilling



Machining Center

Machine Tool Q'ty	14ea
Hole Machine Size	Ø1.0~Ø32
Machinable Length	10~3,000mm

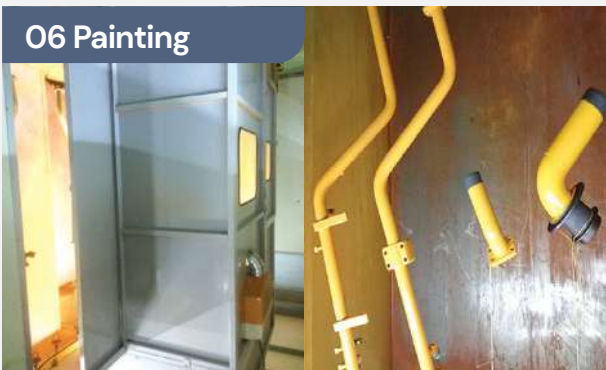
04 Bending



CNC Bending M/C

Bending Outer Diameter	Ø6.35~Ø60.5 Thickness : 2.0t ~6.0t
Maximum Pipe Length	4,800mm
Minimum Bending Radius	180°, 20R

06 Painting



Spray-Type Painting Line

Painting Type	Liquid SPRAY Painting
Within the Range of Painting Size	Size : 700×700×4,500(Max) Weight : Max 100kg/hanger
Equipment Composition	Booth of Primer and Top, Dryer, Conveyor, Electric Precipitator

07 Air & Hydraulic Pressure Testing



08 Endoscope Inspection

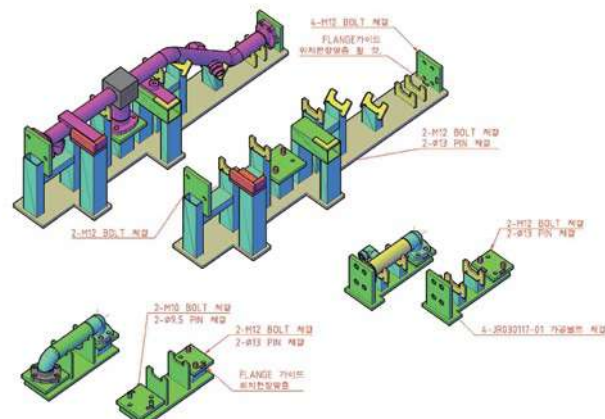
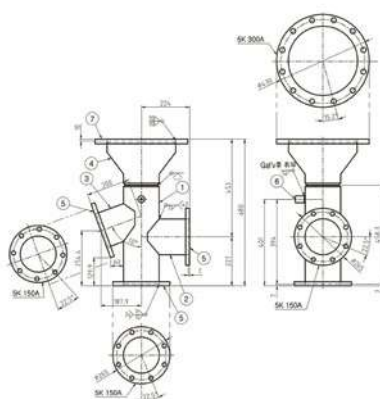
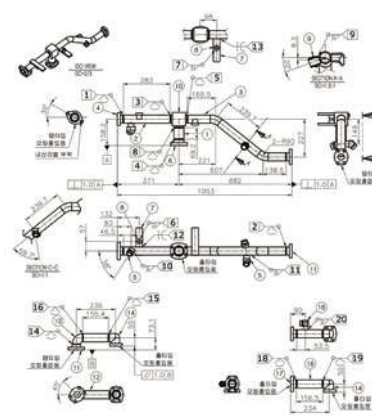
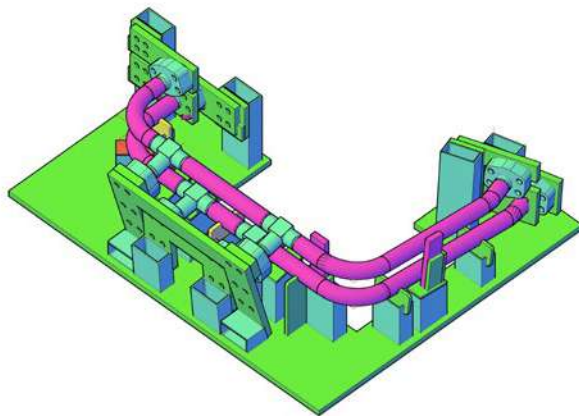


Research & Developments

We operate R&D Center and design our products in person needed to maximize quality and productivity and enhance our competitiveness by securing intellectual property rights.

R&D Center

- Product and JIG design through 3D CAD modeling
- Automation and standardization of manufacturing conditions to maximize quality and productivity
- A communication channel with customers to produce and provide the best products
- Secures technology competitiveness by securing intellectual property rights
- Responds to environmental and export regulations such as chemicals and FTA



Quality Assurance

All our products guarantee a world-level quality with an adoption of ISO 9001 and ISO 14001 quality and environmental management systems.

Quality Assurance System

We comply with basic principles and assure perfect quality through quality control across our manufacturing processes under the quality policy of fool-proof improvement and zero-oil leak.

CUSTOMER SATISFACTION

FINAL INSPECTION

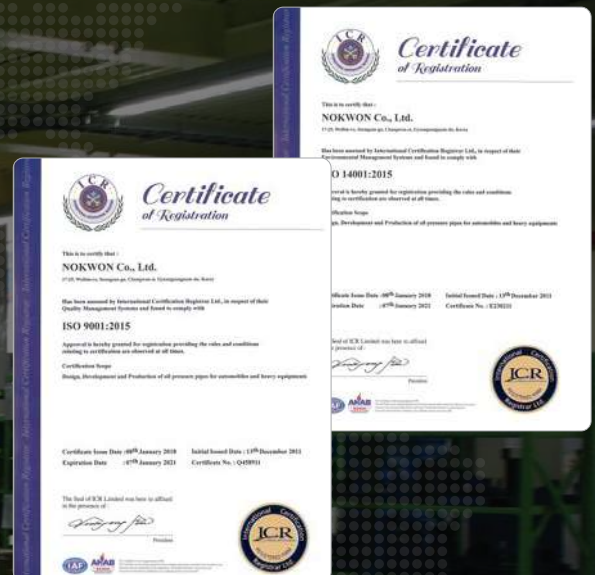
Pneumatic/Hydraulic Testing
Borescope Inspection

QUALITY PROCESS

JIG, Selfsequential Inspection, NDT

MATERIALS & PARTS

Materials: Mill Sheet Management
Parts: Outsourcing Self-Inspection



Business Partners

HYUNDAI
CONSTRUCTION EQUIPMENT

DOOSAN

HSD
engine

EMK

WINIX

LG Electronics



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