

## Message from the CEO



### Customer's satisfaction, Confidence business Making human resources Making a happy workplace

We, Nokwon Co., Ltd., are a company specializing in the machining and manufacturing of low and high hydraulic pipe assemblies for heavy construction equipment as well as shipbuilding industry.

Having the expertise in TIG welding and CNC bending, we supply the best quality goods to our main customers such as Hyundai heavy industry, Doosan mottrol and Doosan engine, etc. By sourcing QCD competitive products, parts and raw materials, we import and export them for ourselves and trade them on behalf of our customers.

From now on, we will keep making efforts to be the world best manufacturer of pipe assemblies and also a general trading company through incessant quality improvement and quality management with accumulated technologies and competent staff members. Through the satisfaction of customers' needs, we also plan to center into the new business such as Automobile, Aerospace and plan in the future.

The President of Nokwon Co., Ltd.

# VISION 2020

Challenge, Change, Communication **Global Best Leader by 2020**  
A company that strives to become a global leader and fulfills its social responsibility Nokwon Co., Ltd.

## Global best Leader by 2020





# History of NOKWON

## 1990's Established

### 1996

- Nokwon Industry was established. Started to produce the pipe assemblies for heavy construction equipment
- Manufacturing Pipe assemblies for excavation and defense industry

### 1997

- Registered as a supplier of DOOSAN Corporation Mottrol Co.,Ltd.
- Registered as a supplier of Hyundai Heavy Industry Co.,Ltd.
- Manufacturing the Lowe hydraulic Pipe assemblies (Boom, Suction and Return Pipe)
- Started to do the foreign trading business

## 2000's Grew up

### 2000

- Converted a Private company into a corporation
- Certified ISO 9001

### 2002

- Awarded the one million export achievement prize on the 39th Annual Trade Day

### 2003

- Opened Shanghai Office, China
- Certified clean workplace from Ministry of Labor
- Awarded a prize of Man of Trade at the 9th Gyeongnam Trade Anniversary
- Awarded the three million export achievement prize on the 40th Annual Trade Day

### 2006

- Registered a certificate of utility of Pipe's leak tester Combination device

### 2007

- Established the Research and development exclusive department (from The Korea Industrial Association)
- Awarded a prize of Man of Trade at the 12th Gyeongnam Trade Anniversary

## 2010's Taking a leap

### 2012

- Relocated new factory
- Manufacturing Pipe & Tank & Structure assemblies for Hi Ballast

### 2014

- Manufacturing Pipe for Shipping Engine
- Certified ship's classification of KR, ABS, LR, DNV

- Awarded the five million export achievement prize on the 44th Annual Trade Day
- Certified Technology Innovation small business (Inno-biz certification)
- Certified Management Innovation small business (Main-biz certification)
- Certified ISO 14001
- Awarded the Order of Industrial Service Merit
- Making an compressor exclusive sale agency contract in Korea with Hitachi Refrigeration Engineering Co.,Ltd from Shanghai, China

### 2008

- Registered a certificate of design of Plastic Box installed Blanking device
- Registered a certificate of design of functional cleaning box
- Certified TS 16949
- Completed to set up the spray painting equipment -surface treatment process inner production Line

### 2009

- Registered a certificate of design of functional cleaning box
- Registered a certificate of patent of double-sided cleaning Box designed inner support
- Manufacturing the Tube Pipe assemblies and Oil tank for defense industry (K55)

### 2011

- Making an compressor exclusive sale agency contract in Korea with The Xian Dong Fang Kangpusi Refrigeration Engineering Co.,Ltd
- Established a welding technology of R&D center



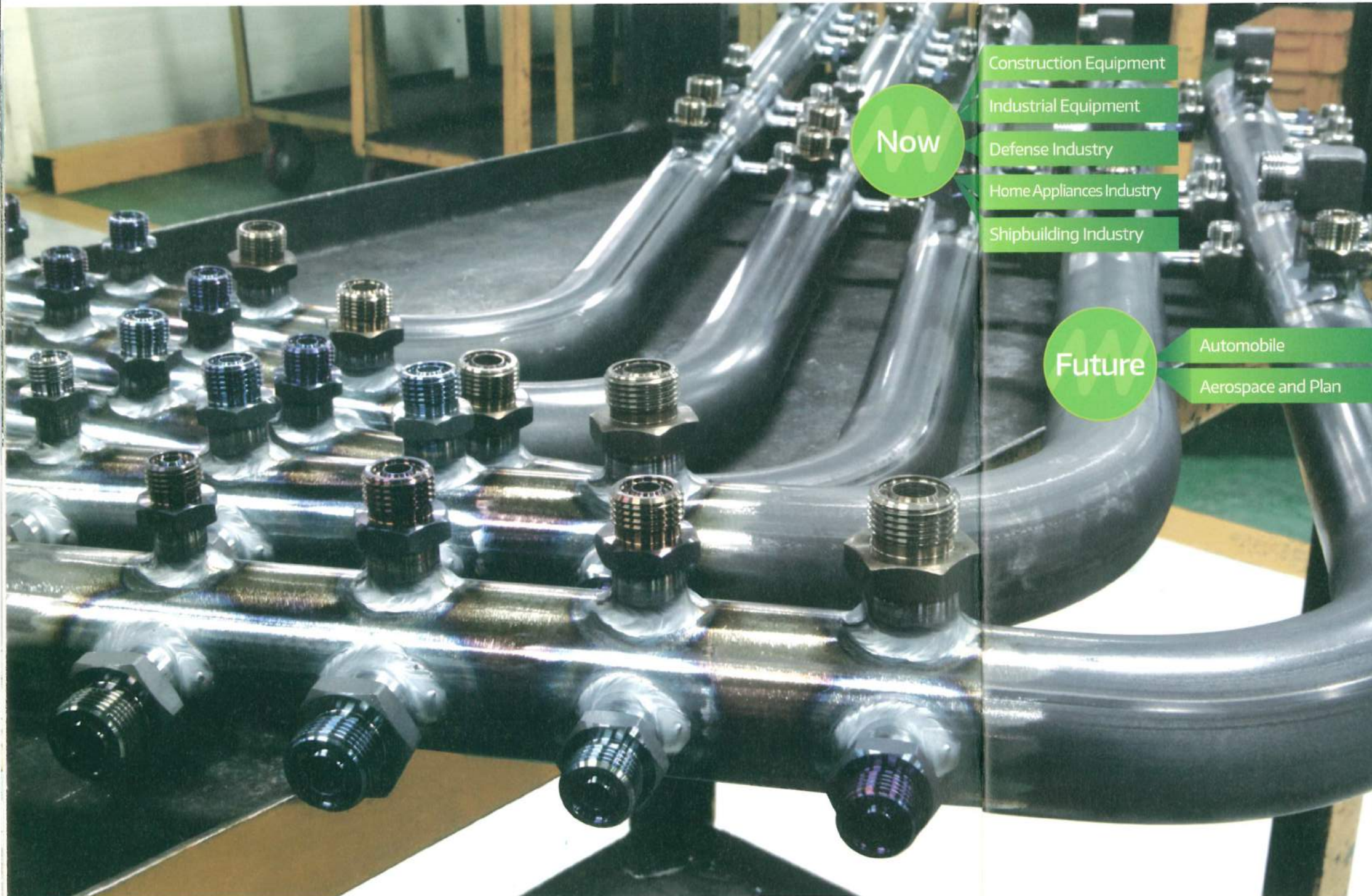
## Certificate





# Main Business Scope

Provide to give some more trustful  
blending product to customer



Now

Construction Equipment  
Industrial Equipment  
Defense Industry  
Home Appliances Industry  
Shipbuilding Industry

Future

Automobile  
Aerospace and Plan



01 02  
03 04

01. Construction / Industrial Equipment  
02. Shipbuilding Industry  
03. Defense Industry  
04. Home Appliances Industry

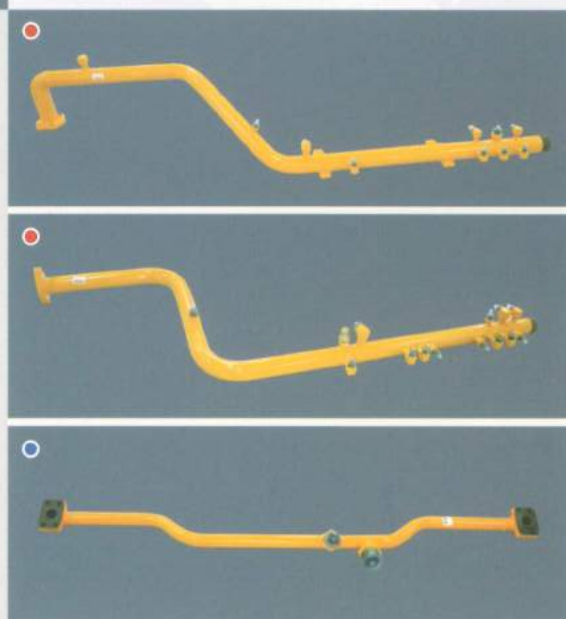
Established in 1996, we manufacture hydraulic pipe assemblies for excavators, wheel loaders, and other construction/industrial fabrication, structural pipe assemblies for tanks, artillery, and other defense industry one, and pipe spools and structures for ballast water treatment. It has already acquired ISO9001/ISO14001 certification, that kinds of quality/environment management system certifications including INNO-BIZ one. It has also established a welding technology of R&D center, and it owns various intellectual property rights. Everyone at Nokwon is making unceasing efforts to ensure that the company becomes a global best leader by 2020.



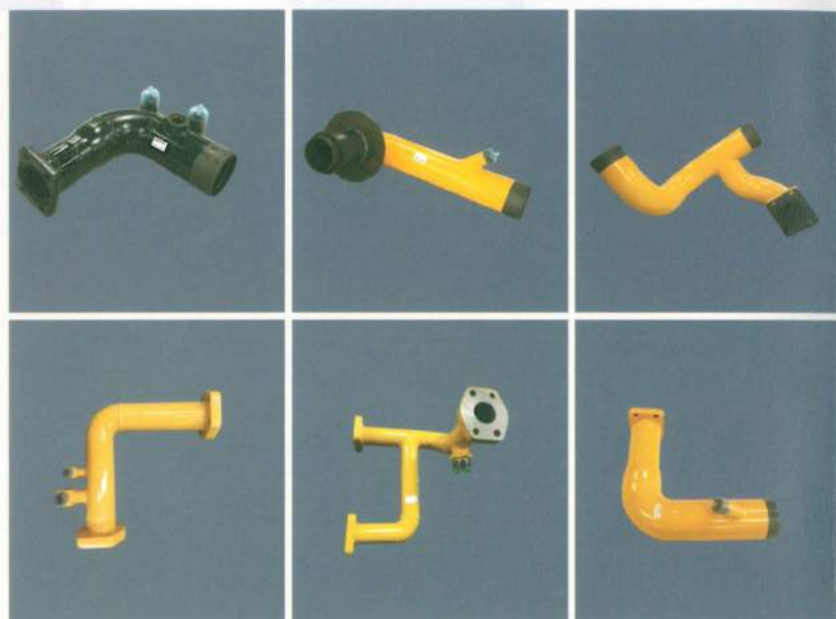
# Construction Equipment

Low / high hydraulic pipe assembly

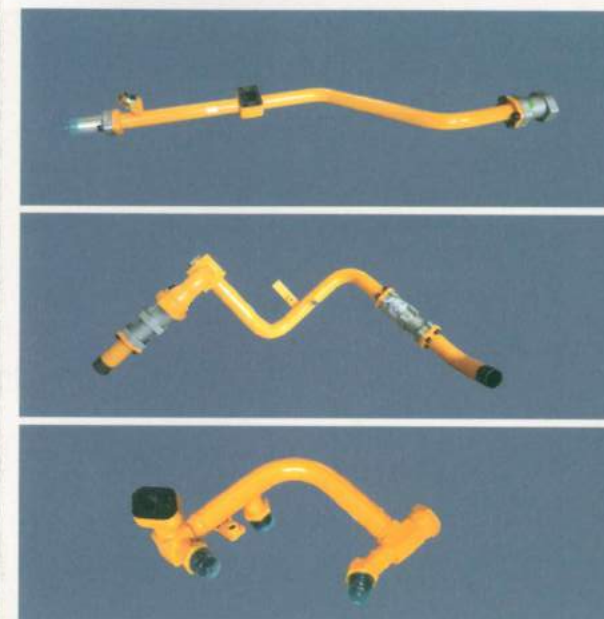
- High Hydraulic Pressure
- Low Hydraulic Pressure



Return Pipe Assembly



Suction Pipe Assembly



Check Valve Pipe Assembly



# Defense Industry

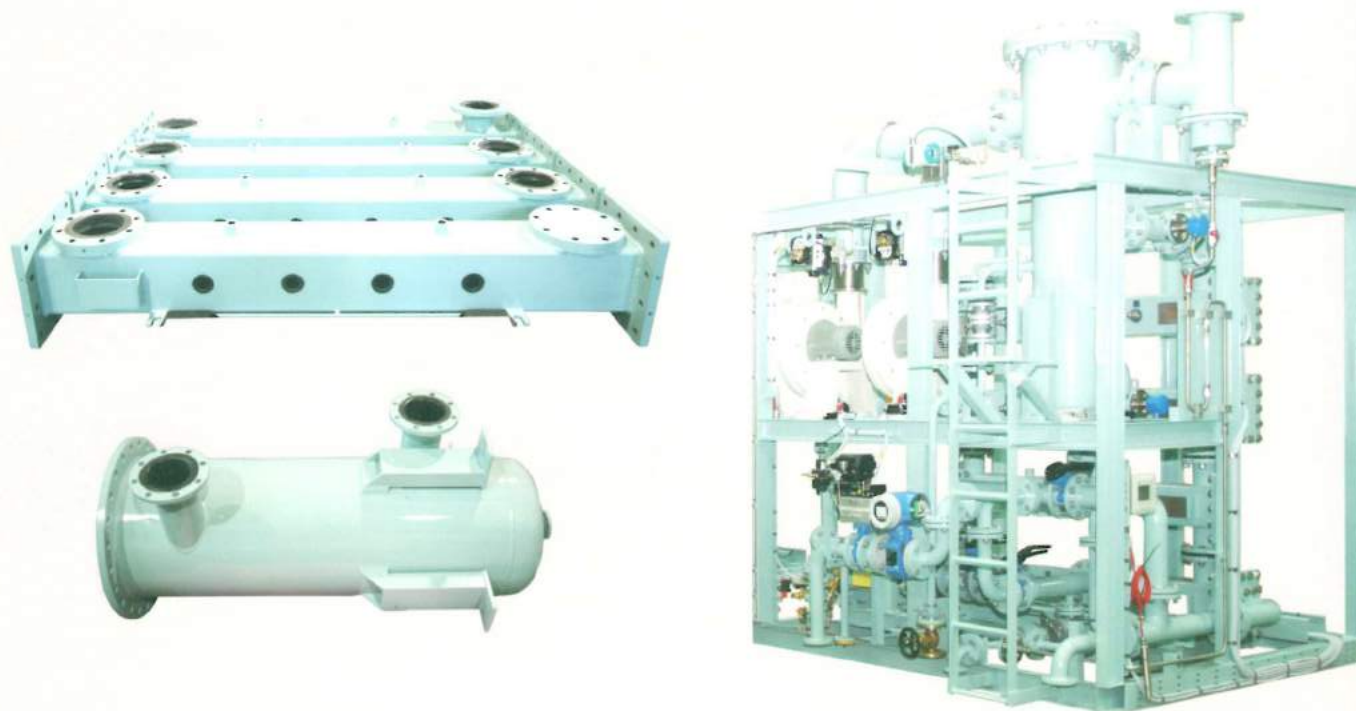
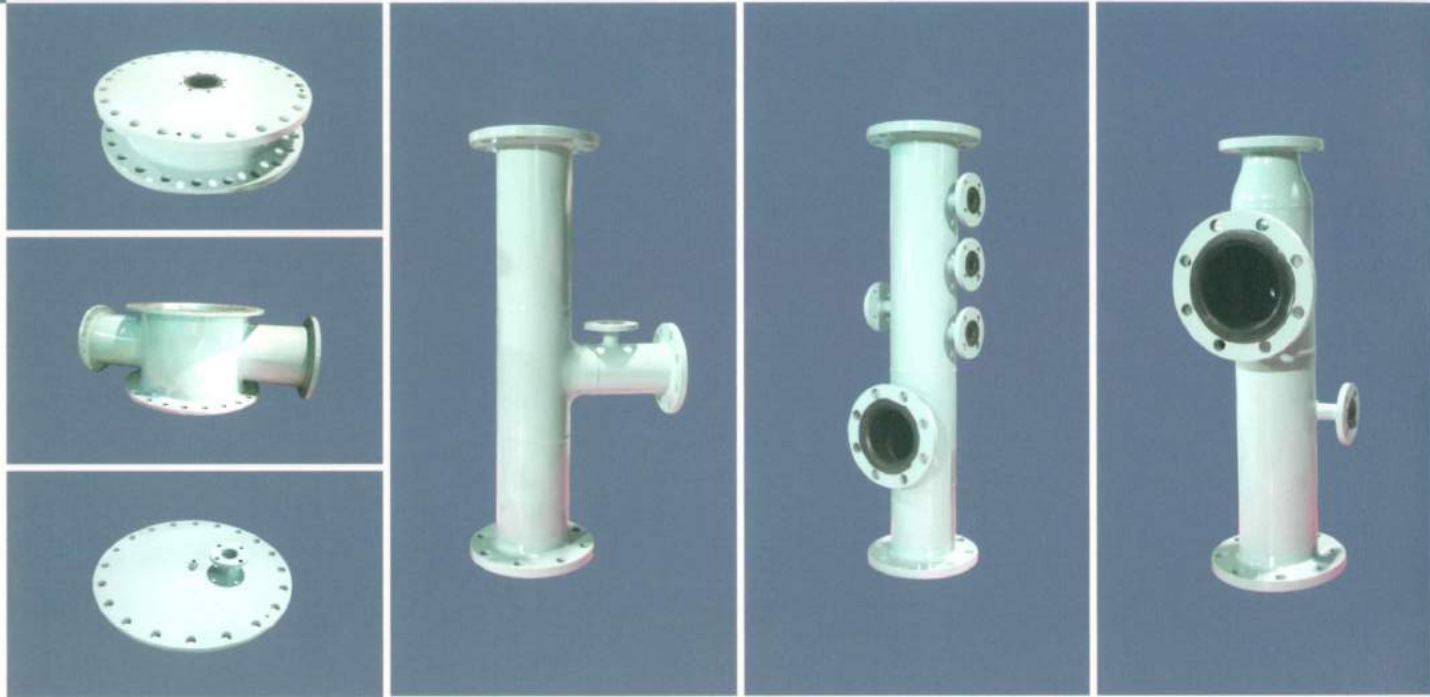
Structural pipe assembly





# Shipbuilding and Offshore Plants (BWTS)

Electrolyzers, tanks, and spools(pipes) for ballast water treatment systems.



# Shipping Engine

## Hydraulic Power Supply

Engine oil pressure required for the system to work hydraulic generating unit / device start-up and operation.





# Manufacturing Process

Cutting material from the processing, assembly work, from being a one-stop production process NOKWON CO., LTD., Bending / Automatic Welding / Auto-hole processing technology, unique system boasts the best manufacturing processes.

One stop solution system from cutting raw materials to blending products

## Hole

## Bending



Raw Material



Cutting



Beveling



Beading



Piercing



Bending



Fabrication



# Manufacturing Process

Shipment of raw materials from the implementation of each of the phases is 100% customer satisfaction and quality check the product towards a more complete effort of the Nokwon corporation.

## Welding



Welding

One stop solution system from cutting raw materials to blending products

## Painting



Painting



Assembly



Packing



# Main Equipments

Specializing in high-level bending, automatic welding, and auto-hole technologies

Provide to give some more trustful blending product to customer

## CNC Cutting M/C

- Cutting external diameter :  $\varnothing 30 \sim \varnothing 120$
- Cutting Limit : 10~6,000mm



## Pipe Beveling

- Machining external diameter : 20A~100A ( $\varnothing 27.2 \sim \varnothing 114.3$ )
- Machining Limit : 10~2,500mm



## Machining Center

- Machine tool Q'ty : 14ea
- Hole machining Size :  $\varnothing 1.0 \sim \varnothing 32$
- Within the range of Length : 10~3,000mm



## CNC Bending M/C

- Bending external diameter :  $\varnothing 6.35 \sim \varnothing 34$  (under thickness 4T)  
 $\varnothing 50$  (under thickness 2T)
- Bending length : 4,000mm
- Bending minimum radius :  $180^\circ, 20R$

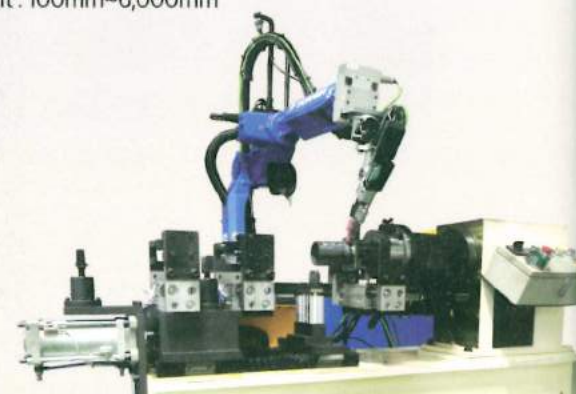


Global Best  
Leader by 2020

One-Stop  
Production  
Process

## Auto Welding M/C

- Welding type : Robot TIG Auto Welding
- External diameter limit :  $\varnothing 42.7 \sim \varnothing 89.1$
- Length Limit : 100mm~6,000mm



## Spray-Type Painting Line

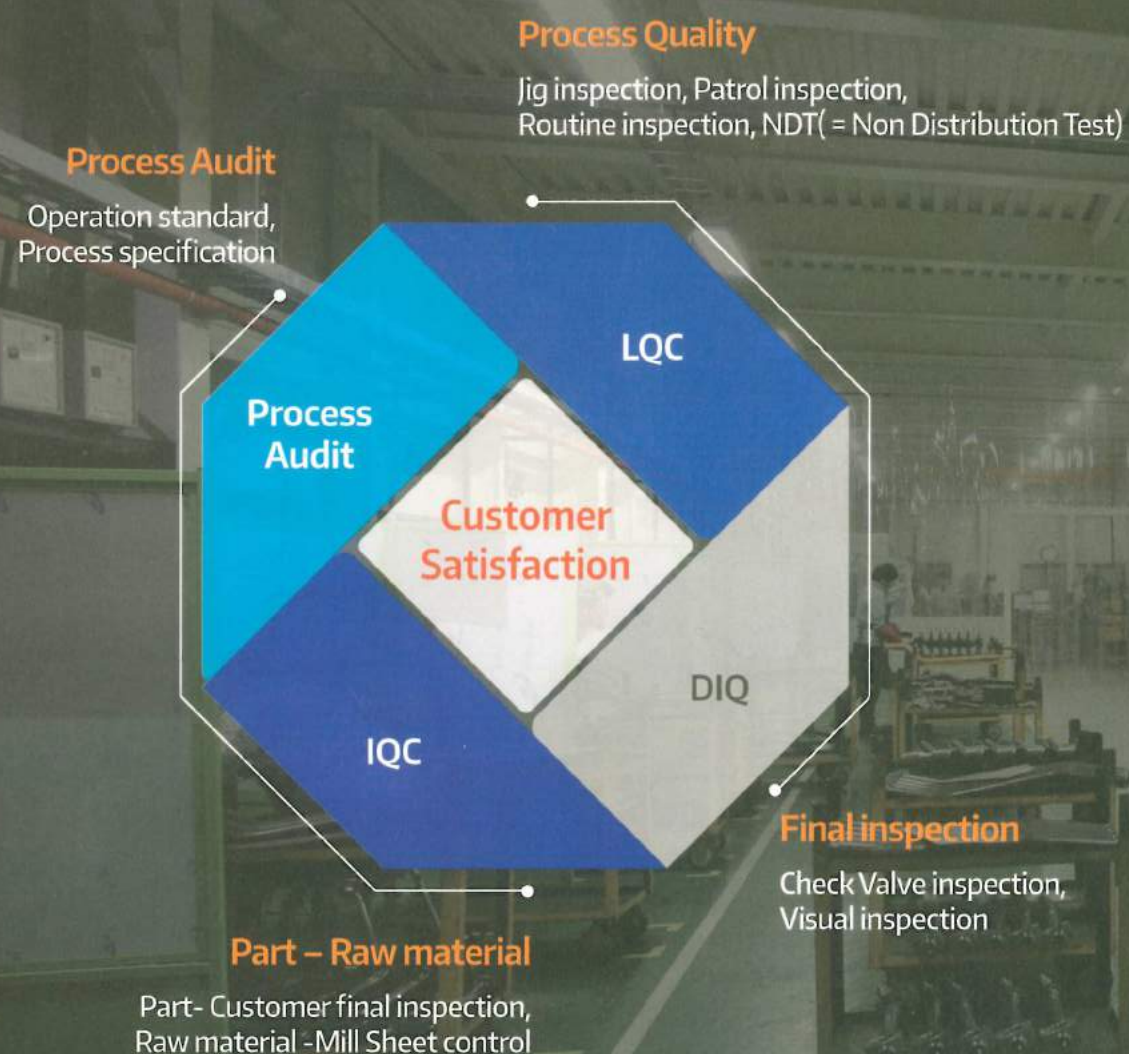
- Painting type : Liquid SPRAY Painting (electrical-painting)
- Within the range of painting size : 10 ~ 2,500mm (within 15kg per Hanger)
- Equipment composition : booth of primer and top, dryer, conveyor, electric precipitator





# Quality Assurance

With quality policies of zero leaks, basic compliance, and fool-proof improvement, quality inspections are performed throughout all of Nokwon's production processes to ensure perfect quality.



All the products nokwon ISO9001, ISO14001 quality system, have obtained the certificate of quality management system to go through as much as be excellent.

## A company that refuses to settle for anything less than perfect products





# Global Network

Provide to give some more trustful blending product  
to customer

A company strives to be a  
global leader and contribute  
to our communities  
**Nokwon Co., Ltd.**

**HYUNDAI**  
HEAVY INDUSTRIES CO., LTD.

**DOOSAN**

**HEWM-K**

**EMK**

**WINIX**

**LG**

**WiniaMando**  
위니아만도 주식회사