

THE FASTENER COMPANY

BOLTS
SCREWS
RIVETS



HISTORY

- 1975. 05** Founded 'Sejong material'
- 1982. 04** Changed the Company name as 'Sungwon Ind'
- 1987. 03** Start business with Visteon Halla
- 1989. 06** Start business with Mando Corporation
- 1996. 10** Founded logistic warehouse in Daejeon
- 2003. 05** Acquired HMC/KIA SQ Hardware Certificate(Forging)
- 2004. 11** Adopt ERP System
- 2005. 11** The first Compressor Housing Bolt production and supply
- 2005. 12** Acquired ISO14001/TS16949 Certification
- 2010. 08** Adopt Production Information system
- 2011. 10** Developed the new bolt for SK innovation's Battery pack and apply to mass-production
- 2013. 08** Move to new plant with Automatic Warehouse
- 2014. 10** Acquired HMC/KIA SQ Hardware Certificate-'S' grade
- 2014. 10** Development of ESW Compressor Housing Bolt and apply to mass-production
- 2016. 05** Completed development of standard computerized system and apply to mass-production
- 2017. 10** Changed the Company name as 'Sungwon Ind Corporation'
- 2018. 09** Acquired IATF16949 Quality Management Systems Certification
- 2018. 12** Awarded One Million-Dollar Export Tower

PRODUCTION CAPACITY

- **Total Product** 4,400 tons
- **Main Products Capacity**
 - Compressor
 - Housing Bolt
 - 40 Million pcs
 - Screw/Bolt
 - 610 Million pcs

CERTIFICATION

- **IATF 16949 : 2016**
Date of Registration : Sep. 21th. 2018
- **ISO 14001 : 2015**
Date of Registration : Nov. 25th. 2005
- **H/W SQ Certificate**
Date of Registration : Mar. 21th. 2013

BUSINESS PARTNERS



MAIN PRODUCTS

■ BOLTS



■ Compressor Housing Bolt

Purpose

Applicate to compressor housing of automotive part

Spec

Head Type : Socket / Flange

Thread : M5 ~ M10

Length Range : 100 ~ 200mm



■ Flange H/D Bolt

Purpose

Applicate to automotive part of compressor mounting, manifold

Spec

Thread : M5 ~ M12

Length Range : 5 ~ 200mm



■ Socket Bolt

Purpose

A strong bolt for fastening automotive part and compressor manifold

Spec

Type : Hex/6-Lobe, Set Screw

Thread : M5 ~ M12

Length Range : 5 ~ 200mm



■ Sems Bolt

Purpose

Applicate to FEM and radiator

Spec

Type : Hex/6-Lobe, Set Screw

Thread : M5 ~ M12

Length Range : 5 ~ 200mm

MAIN PRODUCTS

■ BOLTS/SCREWS



■ Stud Bolt

Purpose

Connections to hose pipe, etc.

Spec

Type : Hex/6-Lobe, Stud

Thread : M6 ~ M8

Length Range : 20 ~ 80mm



■ Screws

Purpose

Loosening prevention for injection molding

Spec

Head Type : Truss, Flange, Pan, Bind, Wrench

Thread : M2 ~ M6.5, M/S, Tapping, FT Etc

Length Range : 5 ~ 40mm

MAIN PRODUCTS

■ ETC



■ Rivet

Purpose

Uses for fixing between dissimilar products

Spec

Type : Flat Head, Hollow Pin

Size : $\Phi 2.2 \sim \Phi 10$

Length Range : 5 ~ 61mm



■ Pin

Purpose

Locating or connection the components

Spec

Type : Forging Pin, Machining Pin

Thread : $\Phi 3 \sim \Phi 7$

Length Range : 5 ~ 50mm



■ Forging Parts

Purpose

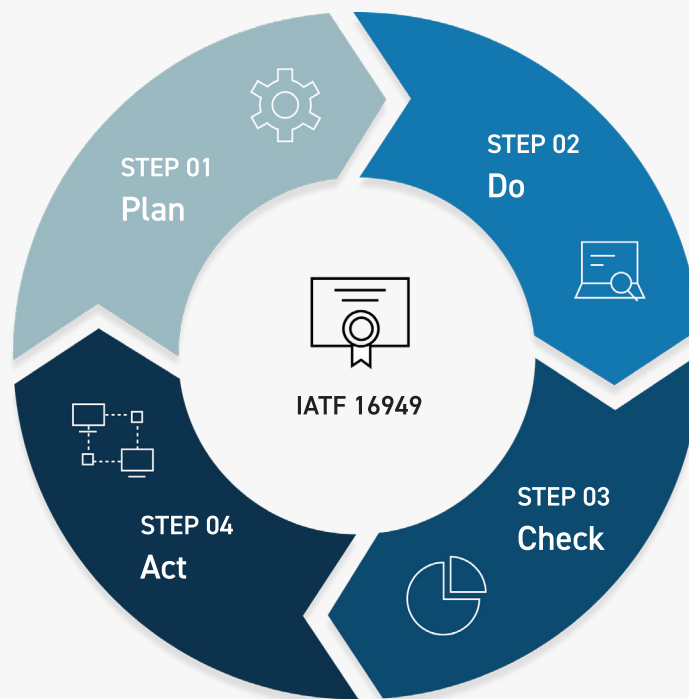
Transfer actuator power

Spec

Type : Geared, Bushing

Size : $\Phi 3 \sim \Phi 11$

QUALITY MANAGEMENT SYSTEMS



Quality Management Systems of our company is based on IATF16949. Through this, we realize defect prevention, reduction in fluctuation and waste. Furthermore, through LPA(Layered process audit) and 6 sigma activity, we are on positive way to challenges zero defect and reduces costs.

STEP 01

Plan

- Understanding of Quality Management System
- Understanding of process and interaction
- Setting a general standard for process operation

STEP 02

Do

- Providing sources and information for process operation

STEP 03

Check

- Monitoring/Measurement/Analysis of the achievement

STEP 04

Act

- Continuous improvement and immediate step

LABORATORY EQUIPMENT



Axial Force Tester

Testing and measuring coefficient of friction, torque and tightening angle relation



Spark Emission Spectrometer

Raw material component analysis
Wavelength range : 160nm~800nm



X-Ray Fluorescence Spectrometer

Measuring thickness of plating



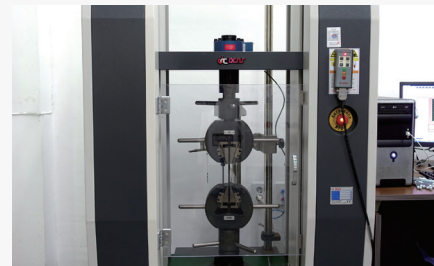
3-Dimensional Coordinate Measuring Machine

Measurement of differences in geometric tolerance such as concentric, seismic, and flat surface



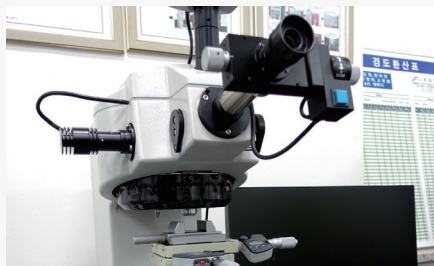
Projector

Measuring the appearance of product



Universal Testing Machine

Tester for the tensile strength and compressive strength of materials (5ton,30ton)



Vickers/Rockwell Hardness Tester

Measuring a hardness (surface, core), carbonization depth



Salt Spray Tester

Tester for corrosion resistance of plating

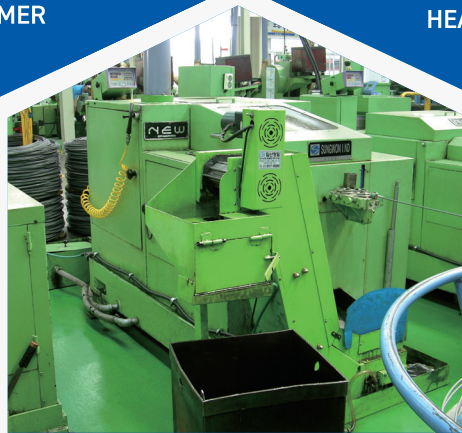
PRODUCTION FACILITIES



FORMER



HEADER



ROLLING MACHINE



SORTING MACHINE

MANUFACTURE PROCESS

COLD FORGING

Process for making a shape of bolt and head out of material formed as a wire

ROLLING

Process of making the material after forging for making thread pitch on the surface

HEAT TREATMENT

Hardening the fastener through Q/T furnace

FINISHING

For giving better resistance to corrosion and making good shape of surface



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