

"Life Time Health Management for Human & Life Time Quality Management for Company"





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01 General Status

1-1 Company History

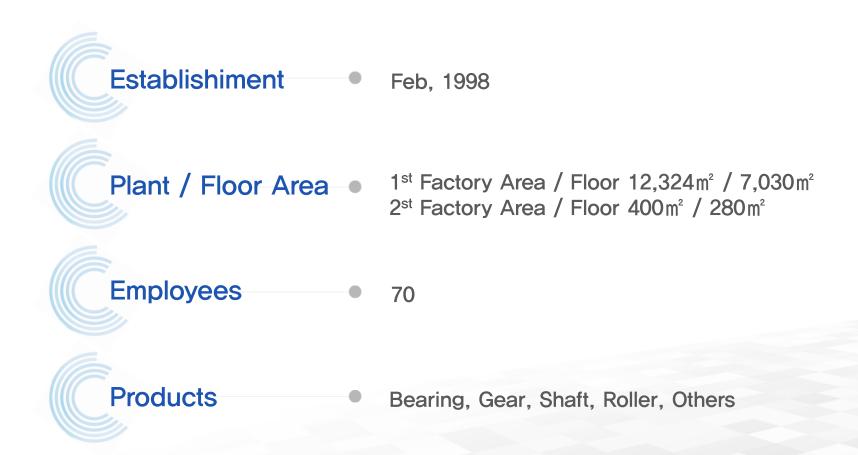
		2006.	Apr	Expand
1998. Feb Established	d Seil Forging Co.,Ltd	2000.	Apr	
1999. Aug Developed	Bearing (Ball, Taper)	2007.	Dec	Manage
2001. May Acquired ISC	09001 Certificate (BSI Certification Institute)	2008.	Jun	Develo
Feb Developed	Gear for Transmission	2010.	Aug	Extende
2002. Jun Developed	C/F for Rear Axle		Sep	Operate
Mar Developed	T/B for Automobile	2015.	Jan	Develo
2003. Oct Acquired ISO)/TS16949:2002 Certificate (BSI Certification Institute)	2015.	Jan	Develo
·	DT Bearing(Hyundai Motors) VQ Bearing (Kia Motors)	2015.	Dec	Develo
		2016.	Feb	Develo

2006. Jan	Acquired SQ Quality Assurance for Hyndai Motors and Kia Motors (CF017)
2006. Apr	Expanded and moved to present Jinsung Factory
2007. Dec	Management Innovative S&M Business Certification (Ministry of SMEs and Startup
2008. Jun	Developed 6-Speed Bearing of Hyundai Motors
2010. Aug Sep	Extended to 2-lines of Forging (2 1,600ton units) Operated Aluminum Forging Line
2015. Jan	Developed MOJAVE Wheel Bearing
2015. Jan	Developed Wheel Bearing for Hyundai Avante
2015. Dec	Developed Wheel Bearing for GM Spain 9BXX
2016. Feb	Developed Wheel Bearing for Diamler VS30
2016. Mar	Developed Wheel Bearing for GM China A2LL



01 General Status

1-2 Genaral Status





02 Manufacturing Facility

2-1 Manufacturing Process Status

Forging Part

- Hub Bearing Flange
- Hub Bearing Outter
- -Gear



Capa (Min order)

Max:月1,000,000EA Min:月1,000EA

Turning Part

- Hub Bearing Flange
- Hub Bearing Outter
- -Gear



Capa (Min order)

Max:月1,000,000EA Min:月1,000EA

Gear&Shaft Part

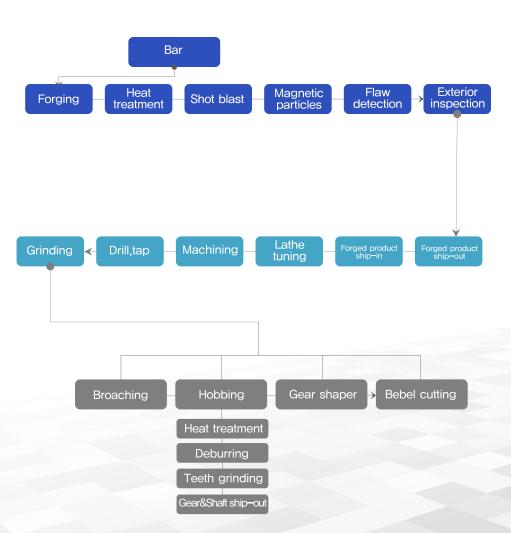
- Engine Gear
- Trans Mission Gear
- -Shaft



Capa (Min order)

Max:月150,000EA

Min:月500EA



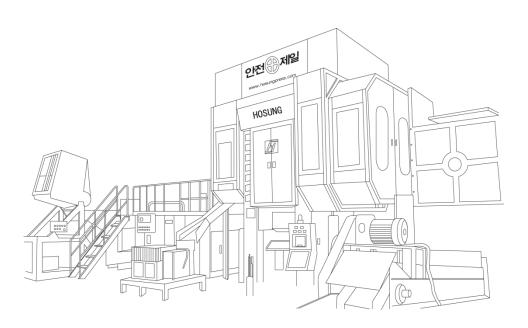


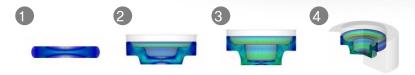
02 Manufacturing

2-2 Introduction to Manufacturing Equipments

1,300 ton press, (Type) Products – 3 Lines

Max 7,200,000pcs / year Load 6,000, 000pcs





HOSUNG

Major Products



Spindle / Cylinder Gear

Out dia MAX: Ø 125 MIN: Ø 80
Net weight MAX: 3.5kg MIN: 1.0kg
Capa 200,000EA / month



Taper bearing housing(Outter,Inner)

Out dia MAX: Ø 125 MIN: Ø 80
Net weight MAX: 2.5kg MIN: 0.5kg
Capa 250,000EA / month



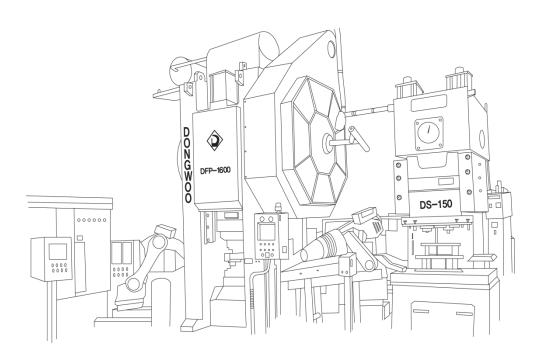
Gear

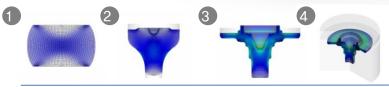
Out dia MAX: Ø 125 MIN:
Net weight MAX: 3.0kg MIN: 0.8kg
Capa 200,000EA / month



1,600 ton press
(Robot transfer Type) Products – 2 Lines

Max Capability 3,000,000pcs / year Load 2,300, 000pcs





Major Products



Manufacturing Facility

Ring Gear / CAM-Shaft Gear

Out dia MAX: Ø 160 MIN: Ø 90 Net weight MAX: 8kg MIN: 2kg Capa 150,000



Hub bearing outter ring

Out dia MAX: Ø 180 MIN: Ø 90 Net weight MAX:8kg MIN: 1,5kg Capa 200,000



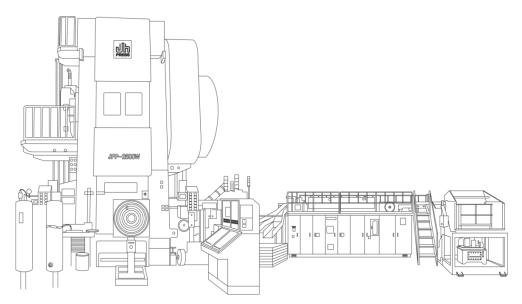
Final Gear

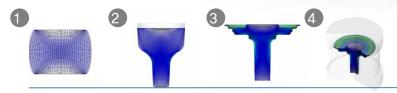
Out dia MAX: Ø 180 MIN: Ø 90 Net weight MAX:10kg MIN:1.5kg Capa 150,000



2,500 ton press
(Auto Transfer Type) – 2Lines

Max Capability 3,600,000pcs / year Load 2,800, 000pcs





Major Products



Manufacturing Facili

Hub Bearing

Out dia MAX: Ø 210 MIN: Ø 120 Net weight MAX:12kg MIN: 2.5kg Capa 300,000



Shaft / Pinion Drive

Length MAX:500mm MIN:100mm Net weight MAX:12kg MIN:2,5kg Capa 150,000

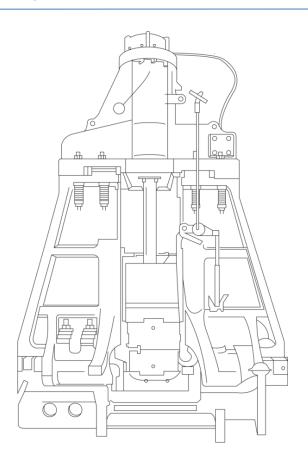


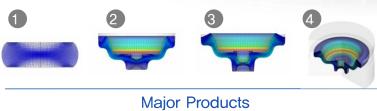
CAM-Shaft Gear

Out dia MAX: Ø 210 MIN: Ø 120 Net weight MAX:15kg MIN:2.5kg Capa 100,000



Air Drop Hammer – 2 Lines (3ton, 1ton)









02 Manufacturing Facility

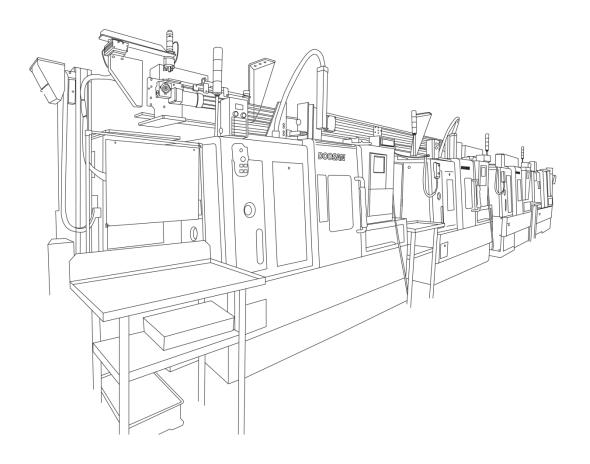




Fork



Taper Bearing Auto Turning Line (4 Lines)











Taper bearing housing

Out dia MAX: Ø 180 MIN: Ø 80 Net weight MAX: 2.5kg MIN: 0.5kg



Ball Bearing Turning Line (4 Lines)









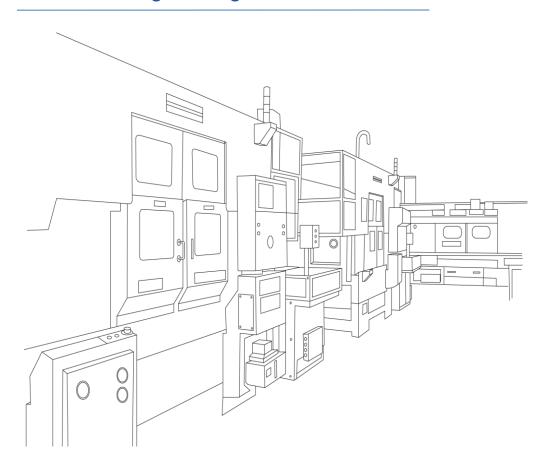


Ball bearing housing

Out dia MAX: Ø 180 MIN: Ø 80 Net weight MAX: 2.5kg MIN: 0.5kg



Hub Bearing Turing Line (8 Lines)





Facility

Manufacturin







Hub bearing flange

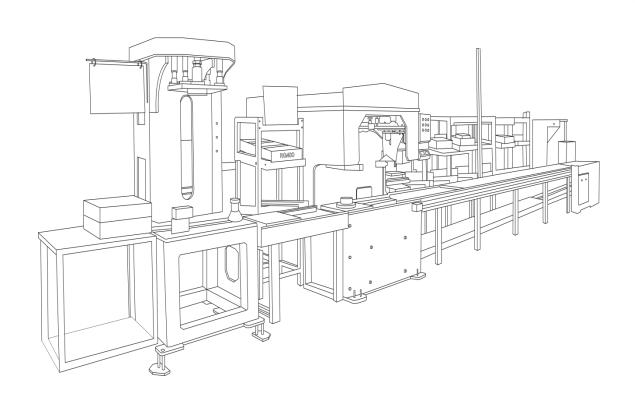
Hub bearing outter

Front hub assy

Out dia MAX: Ø 180 MIN: Ø 80 Net weight MAX:8kg MIN:1.5kg



Gear Machine Line (4 Lines)





anufacturing Facility







Engine Gears

Transmission Gear

Shaft

Out dia MAX: ø 210 MIN: ø 40 Net weight MAX: 15kg MIN: 1kg



Introduction to Manufacturing products **Trans Mission Gear Engine Gear** Bearing & Shaft **Hub Bearing Axle Shaft**



Introduction to Manufacturing products











RING GEAR





HUB BEARING

TAPER BEARING

6THE BEARING CASE





COMPANION-**SHAFT FLANGE**





FLANGE

COMPANION

FLANGE U JOINT

FORK

SPINDLE

PINION DRIVE

CYLINDER GEAR

P.T.O COUNTER **SHAFT**

HEAVY EQUPMENT



ROLLER



KNUCKLE



TRACK LINK



SPRING PAD



TRACK-LINK(大)



END-GEA



CYLINDER ROD EYE

OTHERS



BEVEL GEAR



CAM-SHAFTGEAR



FINAL GEAR



WHEEL SHAFT



SPIDER



PARKING GEAR



WHEEL **SPROCKET**



3-2 Manufacturing products

Parts of a Bearing

Seil Forging is the consolidated leader in the field with securing 60% of share of taper bearing production of Korea,























3-2 Manufacturing products

Part of an automobile (Gear)

We are dedicated to securing competitiveness by cutting the cost through continuous R&D on core automobile parts. In addition, the product line—up is being extended from steel products to non—steel forging



















3-2 Manufacturing products

Parts of an automobile (Shaft)

We are dedicated to securing competitiveness by cutting the cost through continuous R&D on core automobile parts. In addition, the product line—up is being extended from steel products to non—steel forging





















3-2 Manufacturing products

Part of an agricultural machinery

For the past 20 years, Seil Forging has been the mail supplier for the four largest farm machinery manufacturers in Korea (Dongyang, Daedong, Kukje ans LS) by offering engine, transmission and axle parts.























04 Quality Status

Quality Guarantee Measure 4-1 Introductory Remarks Value Added Activity Information Flow Continuous Improvement based on TS16949 Management Responsibility Policy Management Process Satisfaction **Customer Demands** Organization Operation Process Measurement, Analysis & Improvement Resource Management Output Customer Satisfaction Management Process, Non Education&Training Process Conforming Products Management Process, Corre Facility Operation Process ction & Prevention Process, Internal Audit Process, Mold Management Procedure Data Analysis Process, Improvement Work Process Customer **Product Realization** Business Work Process, Purchase Wo rk Process. Product Trace Process pe **Product** Input r period, Ship-out Work Process, Insp /Service ection Test Work Process, Part Develo pment Work Process



04 Quality Status

4-2 Quality Certificate Status











TS Certificate

TS Certificate

Certificate of Designated Root Technology Profes sional Company

Ino-Biz

Confirmation of Material Part Profe ssional Company

SQ Certificate







BSI Certificate



SQ Certificate



04 Quality Status

4-3 Test Equipment Procurement Status

3-Dimensional Measuring Device

Components Analyzer

Portable Component Analyzer Brinell Hardness Tester Rockwell Hardness Tester





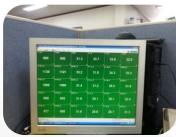






Temperature Management System





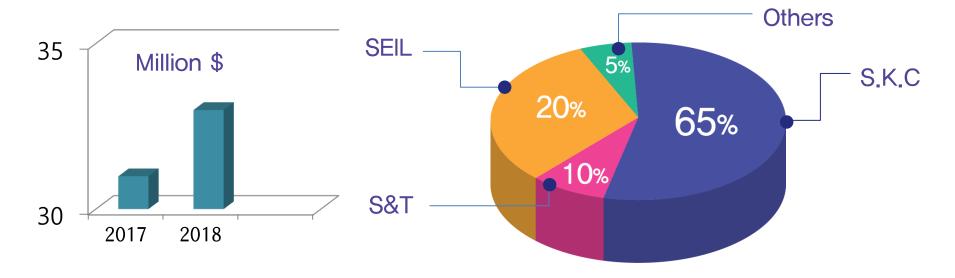
MPI System







4-4 Buyer Status & Turnover

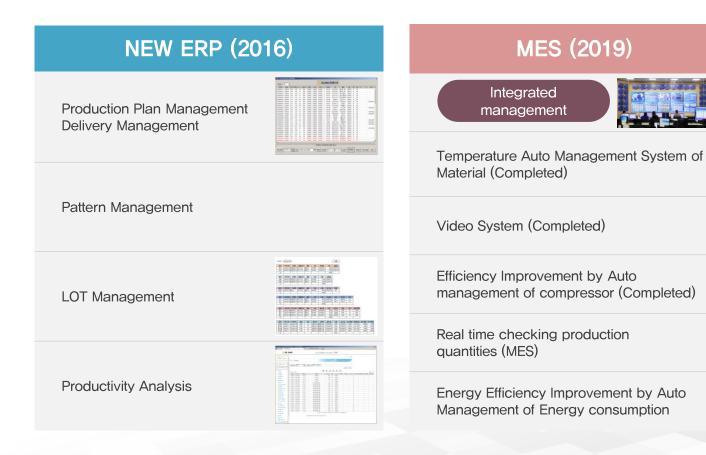


Costomer	Distribution	User
S.K.C	65%	HYUNDAI, KIA
SEIL Industry	20%	JOHN DEERE, ISEKI, DONGYANG
S&T	10%	HYUNDAI, KIA
OTHERS	5%	UNDERCARRIAGE PARTS



05 Factory Management System

5 Factory Management System





6 Long Term Vision

Development Stage		Innovation Stage		Growth Stage		
Management Goal	Quality First Policy	Management Goal	Costomer Oriented	Management Goal	Quality & Customer in Priority	
Main Promotion Business	Expansion of the manufacturing of auto parts	Main Promotion Business	Expansion of the Manufacturing Of Auto Parts, Promotion of process automation(Installed Robot)	Main Promotion Business	Factory Environment Improvement, Entire Line Automation Promotion	
Detail Promation Business	Quality Certificate and Maximization of the Manufacturing	Detail Promation Business	Overseas Market Pioneering (North America and Europe)	Detail Promation Business	Expansion of Forging & Manufacturing for Non-Ferrous Metal	



7 How to get here

