

Precision Deep Drawing Technology

HANSUNG METAL Company Introduction



Word of Thanks

Hello,
HANSUNG METAL Makes quality innovation successful.

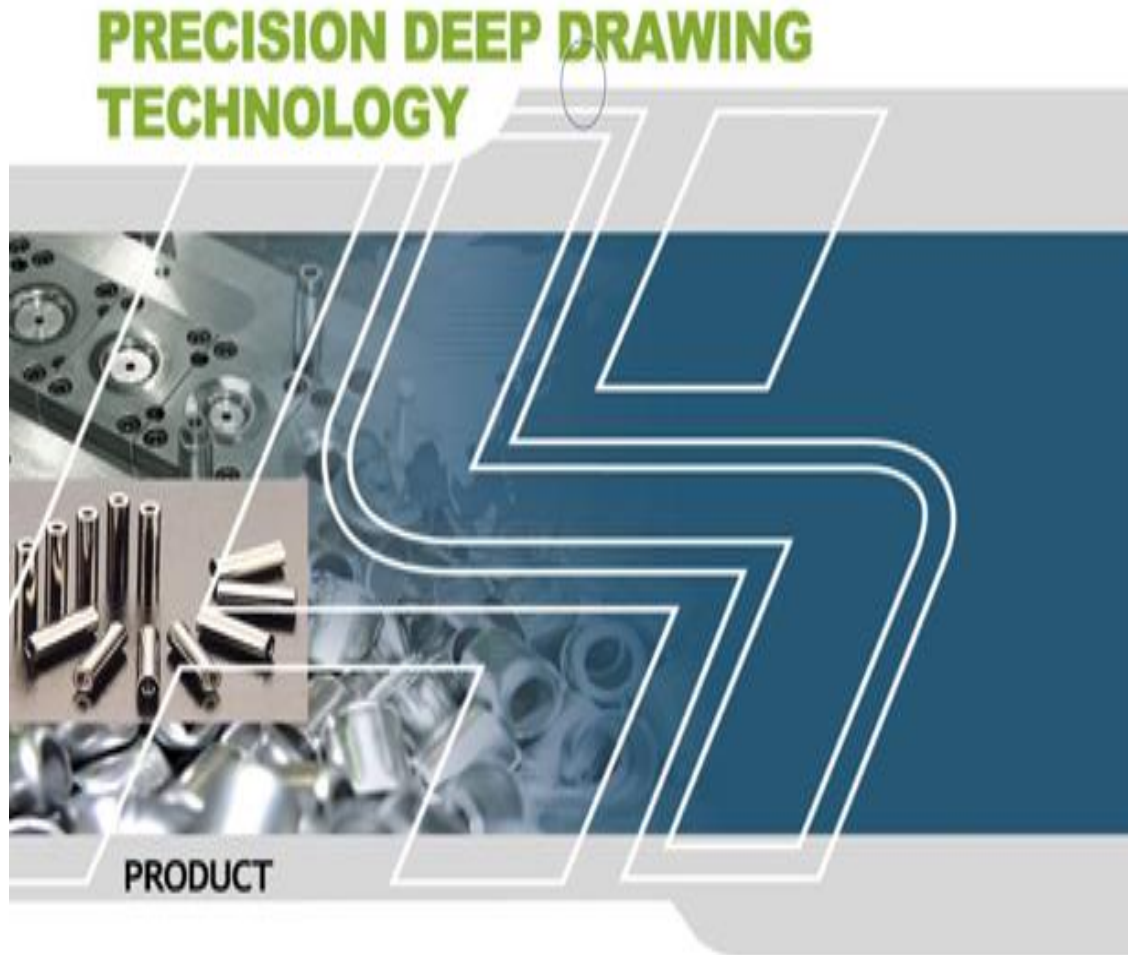
Based on experience and skills since its foundation in 1992. HANSUNG METAL walking the path of a professional Company related to DEEP DRAWING using the Progressive method.

In addition, HANSUNG METAL has a management philosophy that pursues the best quality by uniting all employees with the aim of impressing customer. HANSUNG METAL put our customers interests first and do our best to grow with them.

HANSUNG METAL will continue to do our best to contribute to your development through technology development, quality innovation, and cost reduction through years of accumulated experience.

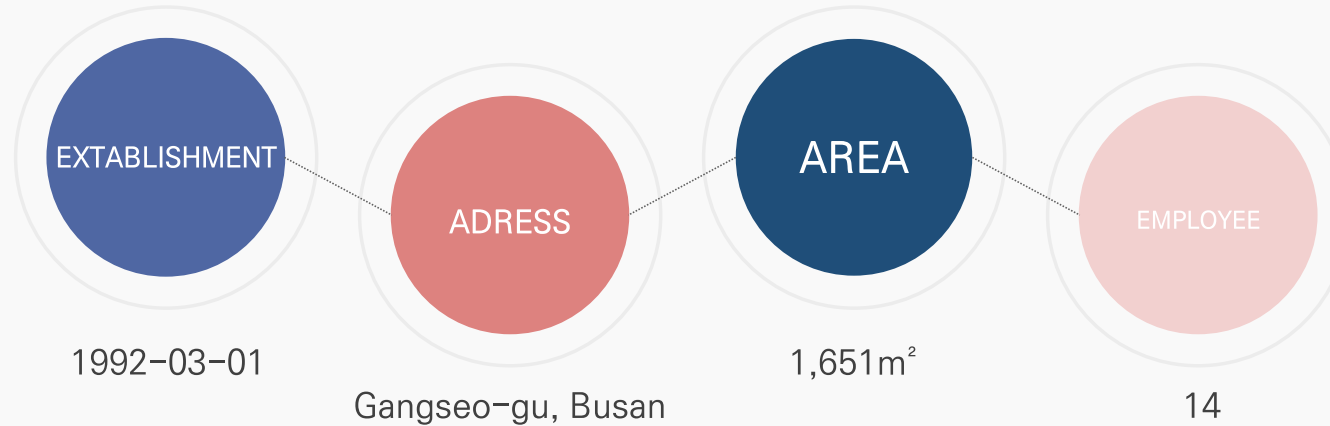
Thank you

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01 ComPany Introduction



COMPANY NAME HANSUNG METAL



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REGISTRATION NUMBER 606-33-92271



INFORMATION +82-51-328-4668



TYPE AUTOMOBILE PARTS
MANUFACTURING



PRODUCTION 2Way Connector Ass'y ,
SBW Gear,
Solenoid Valve Case ,
Injector Housing,
Oil Pump Control Valve Case Sub Ass'y

02 History



- Development of Power Steering Hose Sleeve
- Hutchison KOREA Partner Registration
- LG MTRON Partner Registration

91'



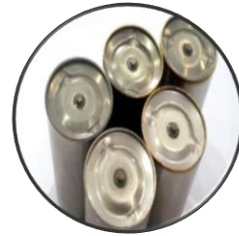
- Patent of Magnet Fixing Method of Vibration Motor
- Patent of Hinging device of Portable Folder Phone and Its Mounting

05'



- Development of SOLENOID VALVE CASE
- Development of Pressure Sensor Housing
- UNIK Partner Registration
- MANDO Partner Registration
- Patent application related to Knurling Frame
- Development of Lithium Battery Case & VENT

15'



- Development of Shift By Wire(SBW) Gear Press MOLD
- Selction of Purchase Conditions R&D

22'

02'

- Development of SUV & TAX Hose ASS'y LPG CAP
- HWASEUNG R&A Partner Registration



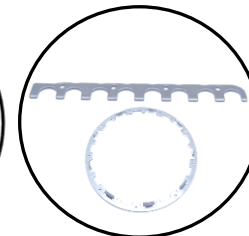
07'

- Patent of Folder Phone Hinge
- Selection of Innovation Development R&D



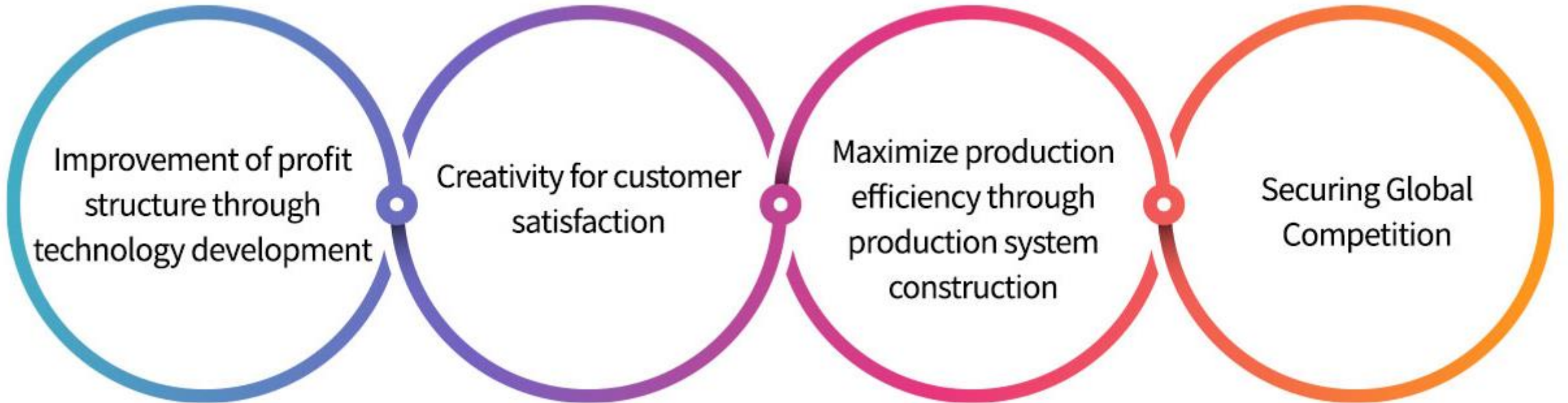
20'

- Development of 2WAY Connector ASS'y
- Selection of Product Process Improvement R&D
- SAMBO MOTORS Partner Registration

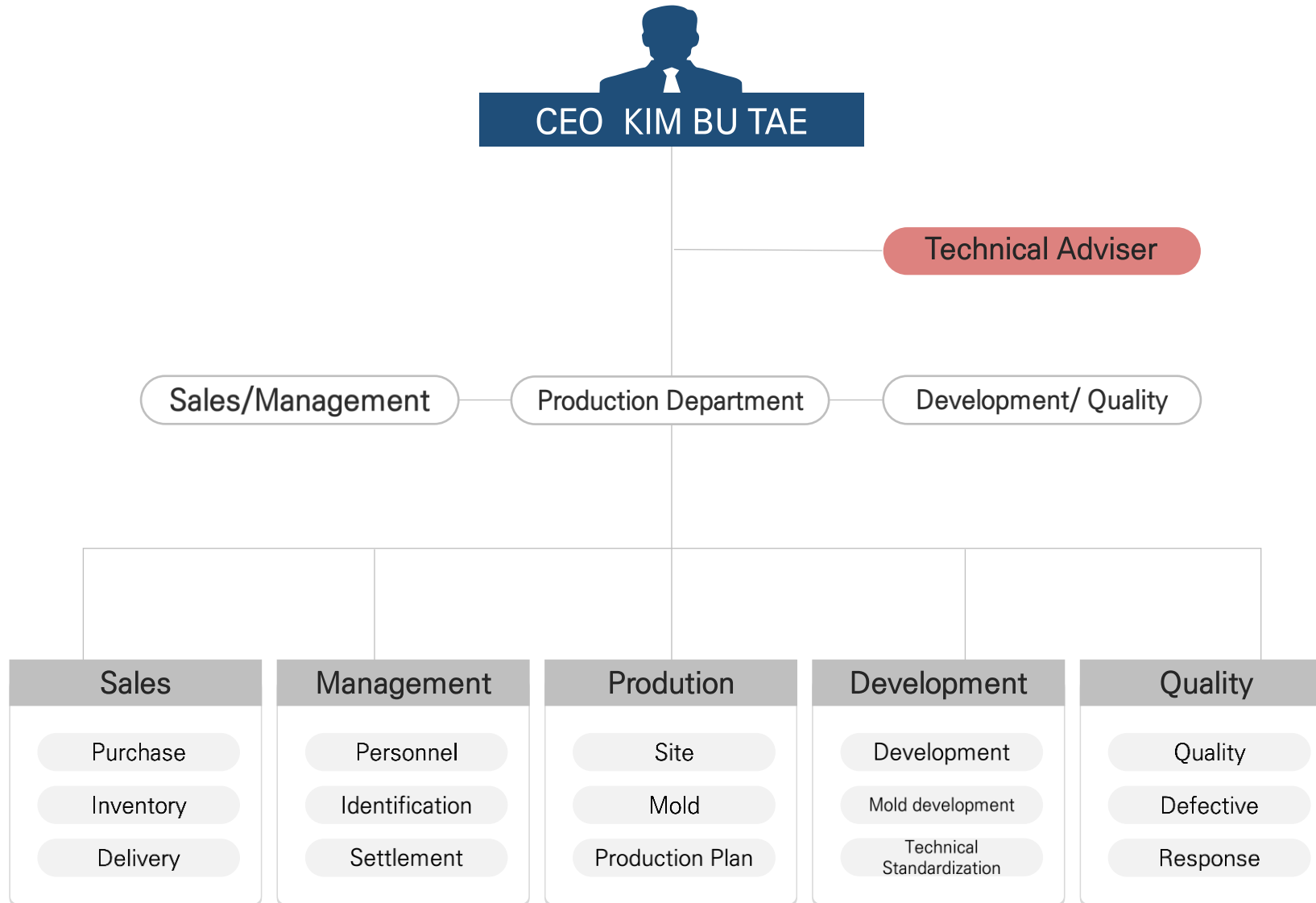


A Company recognized by all Customers &

A Company that gives happiness with customer oriented quality



04 Organization



05 Development Performance

Future oriented development of innovation and technology

Create high performance products and services based on the best technology to grow into a leading professional company in the auto parts industry of the future

NO	Development Name	PERIOD	AMOUNT	ORDER
1	Shift By Wire(SBW) Gear	2022.01 ~	450,000,000	UNIK (R&D PROJECT)
2	Nu Ci Cup	2019.12 ~ 2020.02	70,000,000	DONGA Precision
3	Frame	2018.01 ~ 2018.03	120,000,000	DONGA Precision
4	Oil Pump Control Valve Case Welding Automation	2017.10 ~ 2018. 07	69,000,000	Ministry of SME (R&D PROJECT)
5	Solenoid Valve Gen2 Case	2017.10 ~ 2018.3	120,000,000	UNIK
6	Oil Pump Control Valve Case	2016.12 ~ 2017.02	80,000,000	UNIK
7	Oil Pump Control Valve Stackpole Case	2012.09 ~ 2012.11	100,000,000	UNIK



Fuel Rail

NAME		Ruel Rail
S I Z E	I.D	Ø13.6 ~ Ø16.05 mm
	E.D	Ø14.4 ~ Ø18 mm
	L	15.5 ~ 26mm

Solenoid Valve Bracket

NAME		Solenoid Valve Bracket
S I Z E	I.D	222 ~ 228 mm
	E.D	20 ~ 24 mm

Oil Pressure Hose

NAME		HOUSING / COUP
S I Z E	I.D	Ø6.4 ~ Ø20.7 mm
	E.D	Ø7.4 ~ Ø23.5mm
	L	10 ~ 37.5 mm

SBW Actuator Gear

NAME		BATTERY CASE & VENT
S I Z E	I.D	- / Ø60.889+0.058 / -0.015
	E.D	Ø68.62+0.015/-0.085 Ø60.889+0.085/-0.015



AUTOMOBILE PRESSURE SLEEVE

NAME		FEERULE (SLEEVE)
SIZE	I.D	Ø6.4 ~ Ø20.7 mm
	E.D	Ø7.4 ~ Ø23.5 mm
	L	10 ~ 37.5mm



AUTOMOBILE SOLENOID VALVE

NAME		CASE & PLATE
SIZE	I.D	Ø4 ~ Ø29 mm
	E.D	Ø5 ~ Ø32 mm
	L	7.4 ~ 65.2 mm



INJECTOR HOUSING D/PIPE & CUP FUEL IN

NAME		HOUSING / COUP
SIZE	I.D	Ø13.6 ~ Ø16.05 mm
	E.D	Ø14.4 ~ Ø18mm
	L	15.5 ~ 26 mm



LITHIUM CASE & VENT

NAME		BATTERY CASE & VENT
SIZE	I.D	Ø13 ~ Ø32 mm
	E.D	Ø14 ~ Ø33 mm
	L	21.3 ~ 58mm

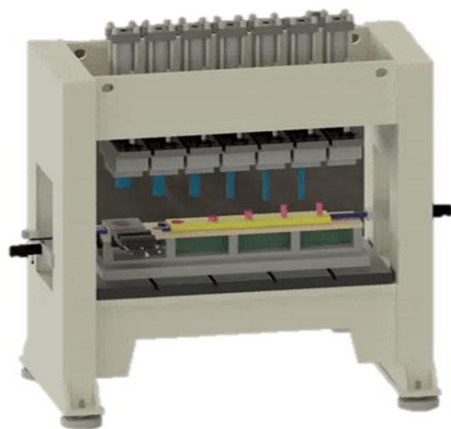
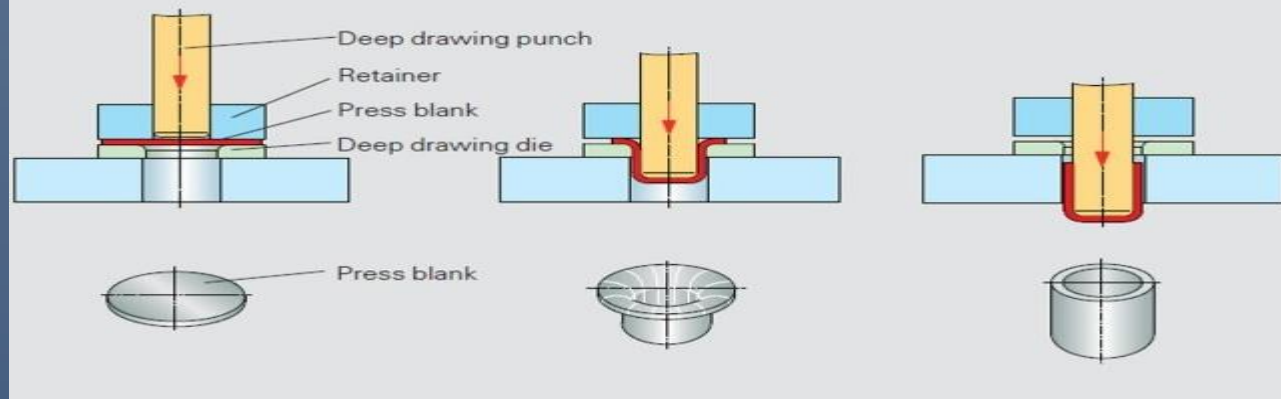
07 Technology

- One – Way Operation Mechanism and Facilities Integration Technology

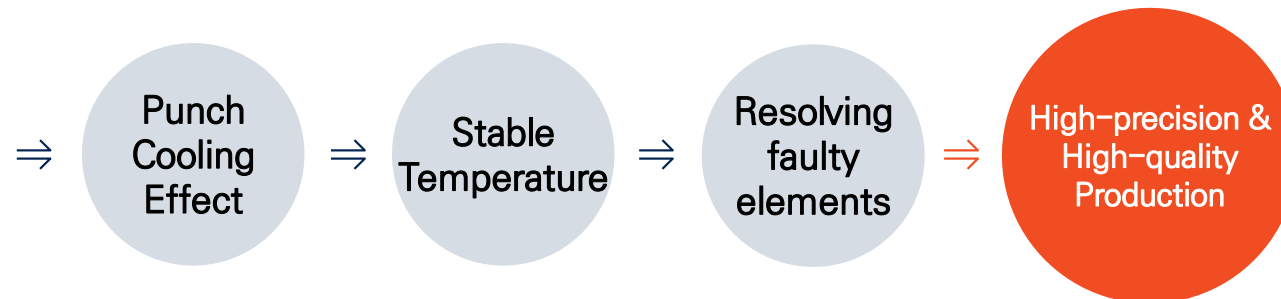
ONE WAY DRAWING SYSTEM

The increase in the temperature of the extreme pressure and the resolution of the defect by cumulative heat
Stable external and internal dimensions management by addressing
Minimize non-product, inner side scratches

Process overview deep drawing:



ONE-WAY OPERATION MECHANISM

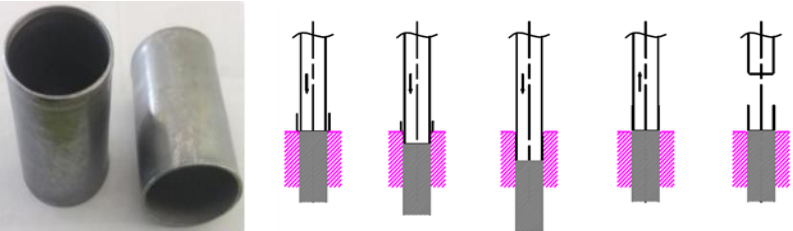


07 Technology

•• PROGRESSIVE TOOL

In order to improve the limitations of general Drawing Mechanisms, HANSUNG METAL developed Deep Drawing technology incorporating One – Way Drawing Mechanism technology.

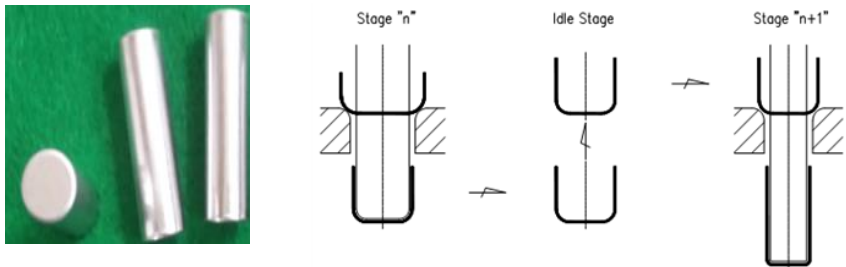
GENERAL DRAWING



- Temperature High Depending on Frictional Force
→ Oil burn, Instantaneous Surface Temperature 700~800°C
- Increased Occurrence of Scratches



ONE – WAY DEEP DRAWING



- ONE-WAY DRAWING → High-Precision, Quality, Localization
- Pressure Temperature Improvement → Resolving Scratch Defects, High Tension Steel Applicable
- 50% Less Processing Time → Reduce Time per Process

08 Manufacturing

NO	KIND	NAME	STANDARD	MANUFACTURER	AMOUNT	REMARK
1	Production Facilities	Double Knuckle PRESS	400 TON	HANIL Co., Ltd.	1ea	
2		Double Knuckle PRESS	300 TON	HANIL Co., Ltd.	2ea	
3		Double Knuckle PRESS	200 TON	HANIL Co., Ltd.	5ea	
4		Mechanical PRESS	150 TON	KOITEC Co., Ltd.	2ea	
5		Mechanical PRESS	80~110 TON	AIDA Co., Ltd.	3ea	
6		Mechanical PRESS	15~60 TON	HANIL Co., Ltd.	5ea	
7		Automation Welding	90KVA	TAESIN ELECTRIC	2ea	
8	Processing Facilities	Lathe Machine	HL Ø380 ~ 500	HWACHUN Co., Ltd.	2ea	
9		Milling Machine	HMT	MAKINO	1ea	
10		Abrasive Machine	DGS-520MB	DAESAN MACHINE INDUSTRY Co., Ltd.	1ea	
11		Drilling Machine	0.75KW/6POLE	SAMCHULLY	1ea	
12		Cutiing Machine	NC -400	NAGASE	1ea	
13	Measurement	CMM	500 x 700 x 400 mm	MITUTOYO	1ea	
14		FE	0.2um	MITUTOYO	1ea	
15		Fischer Projection	2D VIEW	SINPO	1ea	
16		Microscope	10~200x	파란광학	2ea	
17		Lux Measurement	0.0001um	PARANOPT Co., Ltd.	1ea	

300TON



300TON



200TON



150TON



15~60TON



80~110 TON



Lathe Machine



Milling Machine



Abrasive Machine



AUTOMATION WELDING



Drilling Machine



Cutting Machine



CMM



FE



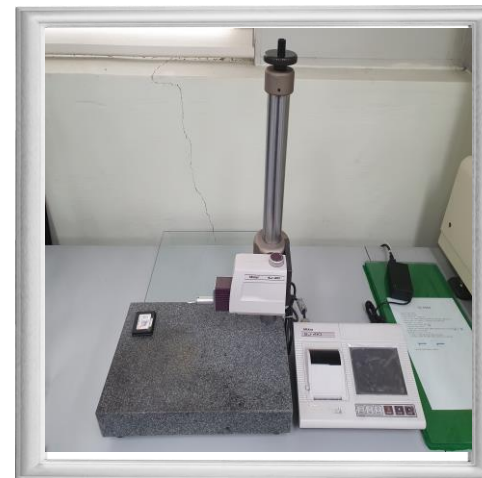
Fischer Projection



Microscope



Lux Measurement



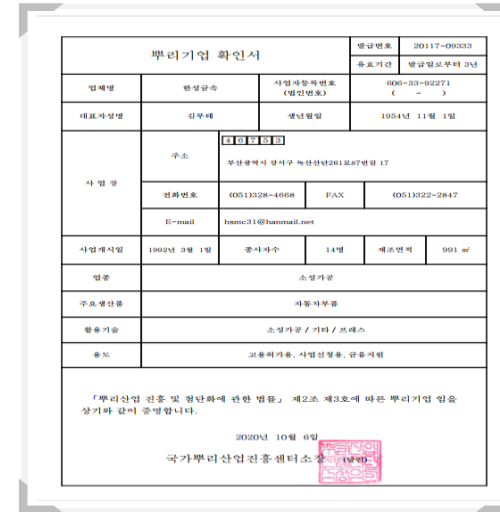
IATF 16949



ISO 9001



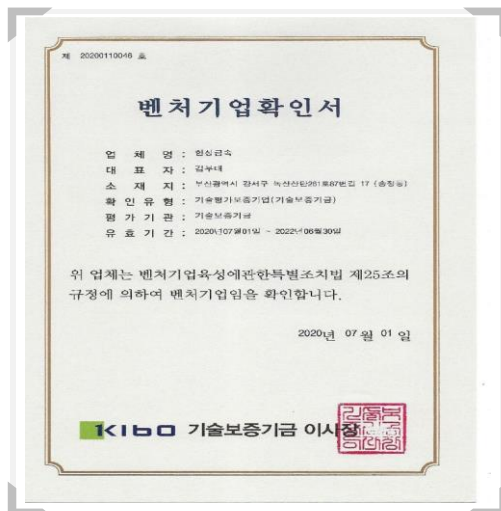
부리기업확인



Quality Certification



Venture



Technological innovation



Patent



Patent



Thank you

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