



MAKE THE FUTURE  
THROUGH STEEL  
**HANSCO**



[Head Office and Machine Shop]



[R&D Center]

**HANSCO**  
HANKUK SPECIAL STEEL Co.,Ltd

**Head Office and Machine Shop**

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**HANSCO**  
HANKUK SPECIAL STEEL Co.,Ltd



# HANSCO Mission

## Toward a Global Top Enterprise!

HANSCO will grow to become a global top enterprise excelling leading Korean companies through making new endeavors and ceaseless challenges.

Since established in 1976, HANSCO has made utmost efforts to develop technology focused on casting and machine processing. As a consequence, the company has become a leader of material business and the mechanical equipment industry.

After making ceaseless efforts, the company has been recognized by customers for the quality of their Roll Chock and Metal Bearing products which are components of steel making equipment.

Also, in order to follow the flow of global new material markets, HANSCO has made resolute investments in new facilities and advances in the field of advanced material industry using vacuum casting of special alloys, e.g. nickel and titanium alloys, the import of which various industries depend; semiconductor equipment, national defense, aerospace, automobile and powder metallurgy. It is also pursuing domestic production of components and the development of new materials.

All executives and employees of HANSCO deeply appreciate domestic and foreign customers for their consistent ardent support. We promise that we will endeavor to help the company grow to be a global company with competitive power through the continuous development of technology and quality management.

Thank you

# History

## 2010's

- 2019. 07 Completed establishment of advanced material processing facilities
- 2017. 11 Enlarged and relocated a R&D center in the Daedeok Innopolis (Sinseong-dong, Yuseong-gu, Daejeon)
- 2017. 02 Completed introduction of facilities for producing special alloy and started mass production (VIM, VAR)
- 2016. 10 Designated as a company specialized materials and components
- 2015. 09 Designated as a company owning the advanced root technology
- 2015. 03 Awarded Tin Tower Order of Industrial Service Merit
- 2014. 12 Introduced facilities for producing special alloy (VIM, VAR)
- 2014. 07 Designated as a root technology company
- 2013. 12 Signed an agreement to transfer titanium technology (Korea Institute of Industrial Technology)
- 2012. 09 Selected as advanced technological products (three cases: roll chocks, cylinder covers and oil film bearings)
- 2011. 12 Selected as the World-Class Product of Korea (three cases: roll chocks, cylinder covers and oil film bearings)
- 2011. 01 ISO 14001 certification

## 2000's

- 2008. 01 Changed the company name to **HANSCO**
- 2007. 10 Established a R&D center
- 2007. 03 Selected as an Inno-Biz
- 2003. 06 KSA 9001:2001 / ISO 9001:2000 certification
- 2000. 06 ISO 9002 certification

## 1990's

- 1993. 12 Relocated the head office (location: 17beon-gil 35, Munpyeongseo-ro, Daejeon)
- 1991. 12 Changed the company name to **Hankuk Heavy Machinery Industries Co.,Ltd.**

## 1970's

- 1979. 05 Designated as a small and medium sized company type machine shop (The Ministry of Commerce and Industry)
- 1976. 05 Established "**Hankuk Special Steel Casting Ind.Co.,Ltd.**"

Section 2

# Plant Business

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# Facility

HANSCO is equipped with all aspects of a general machine shop from machine processing to assembling.

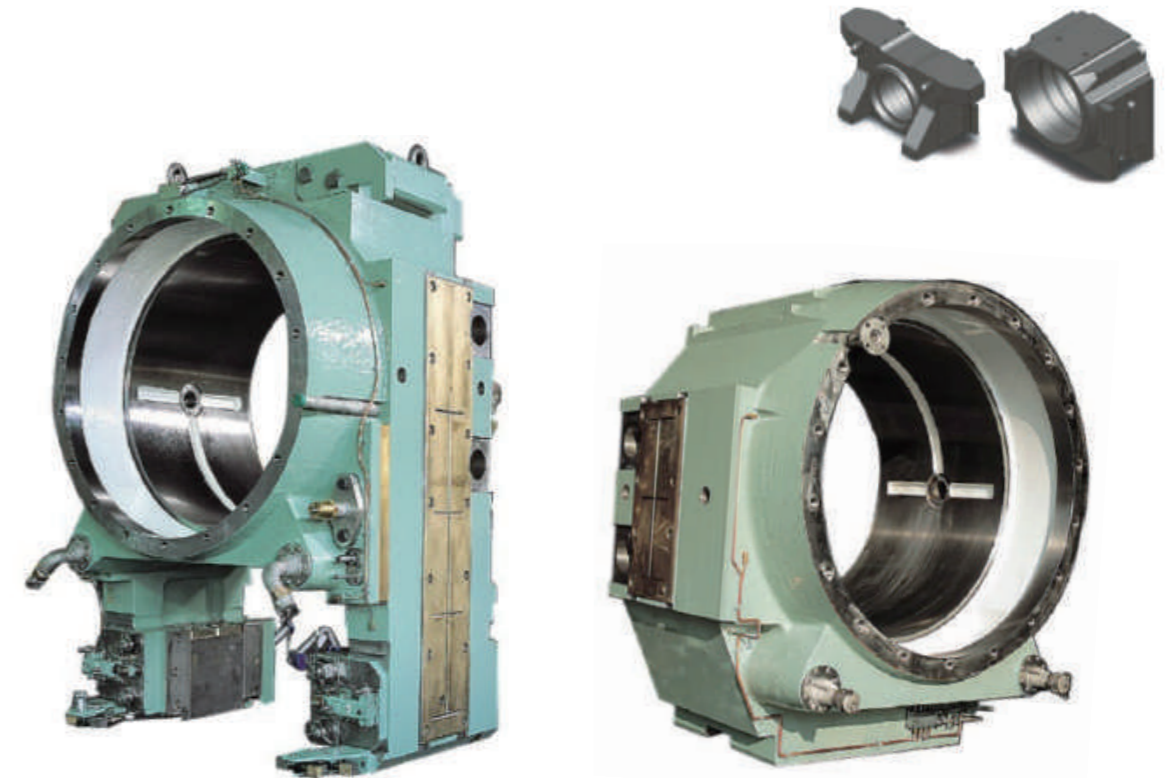


## Manufacturing Facilities

No.	Description	Capacity
1	CNC Floor Boring M/C	Φ200 (7000 x 4000 x 2500) 1 Unit
2	CNC Boring M/C	Φ150 (3000 x 2000 x 2000) 1 Unit
3	CNC Boring M/C	Φ130 (2500 x 1800 x 1600) 1 Unit
4	CNC Turn&Milling M/C	Φ1600 1 Unit, Φ2800 2 Unit
5	CNC Turning M/C	Φ1600 1 Unit, Φ2600 1 Unit, Φ6000 1 Unit
6	Turning M/C	Φ4000 1 Unit
7	NC Lathe	Φ1000 x 6000
8	White metal built-up welding machine	1 Unit
9	Radial Drilling Machine	1 Unit

# Main Products

Steel Making Plant / Various Roll Chocks



• Plate Mill Bur Chock



• Cold Mill Chock



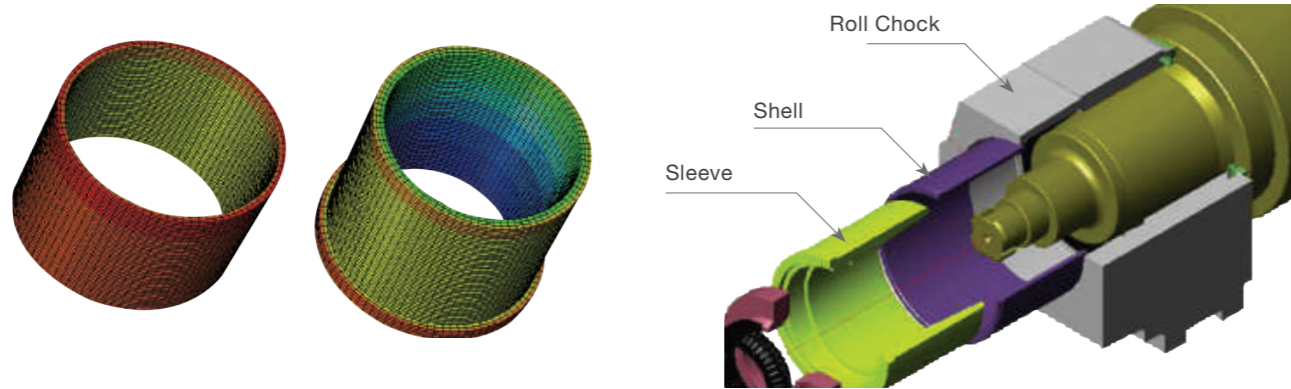
• Hot Strip Mill Chock

# Main Products

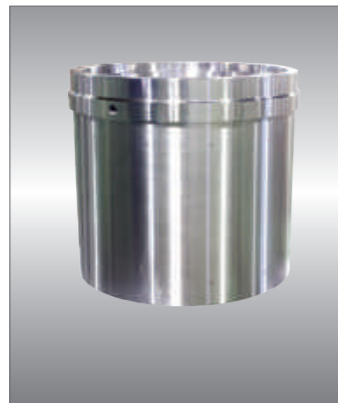
Steel Making Plant / Metal Bearings

## Metal Bearing for HSM BUR Chocks

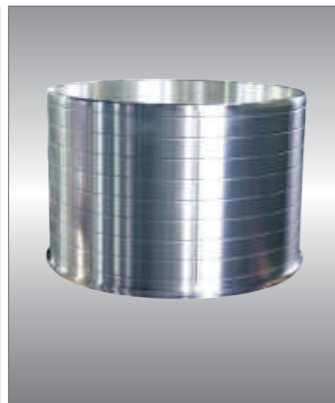
The company manufactures and supplies metal bearings which are key components of rolling (hot roll) equipment. (Assembling and supplying Metal Bearing & BUR Chock)



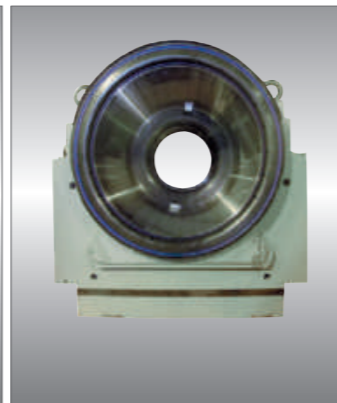
• White metal welding devices



• Sleeve



• Shell



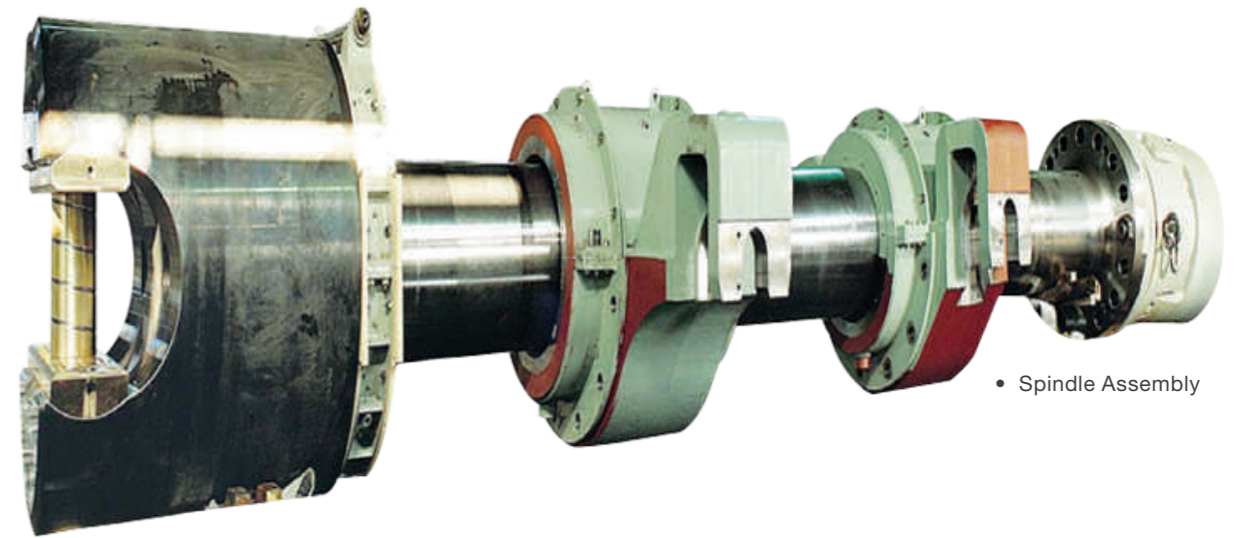
• POSCO Plate Mill BUR Chocks with Bearings



• POSCO HSM BUR Chocks with Bearing

# Main Products

Steel Making Plant / Others



• Spindle Assembly



• Dummy Bar



• Various Roll



• Roller Table



• Welding Structure

# Main Products



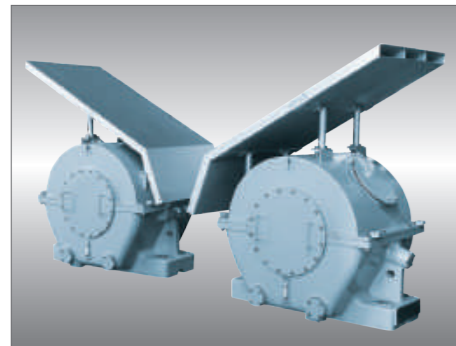
• Leveller Part



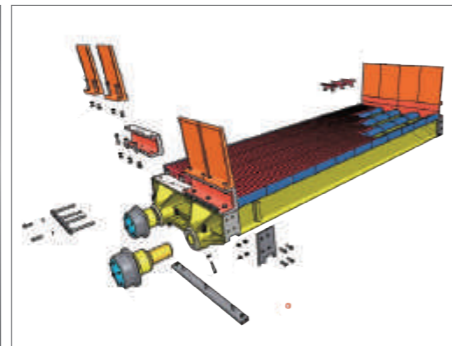
• Leveller Part



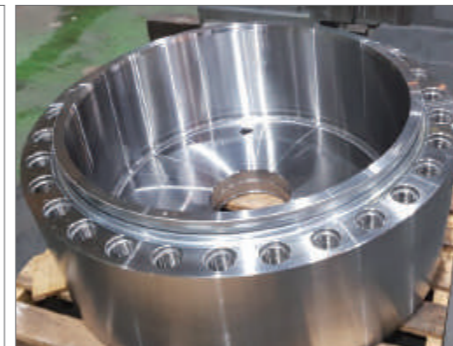
• Shear Part



• Kiln Bearing Housing



• Pallet Part



• Cylinder Core Part

## Pipe Mill Part



# Customer

## Domestic Customer



## Oversea Customer





# R&D

Striving to be the best materials & machinery company in the world



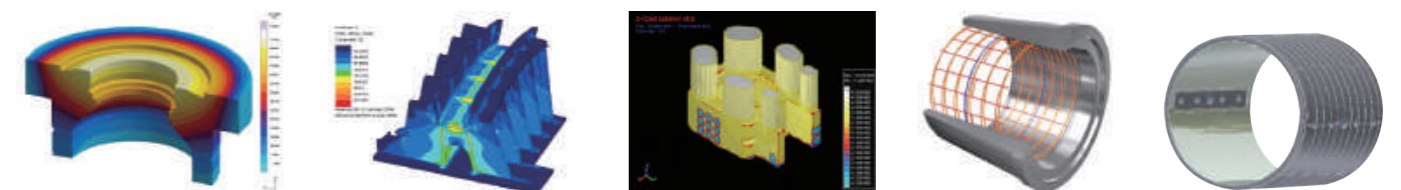
# Certificate

## Patents

Order	Application No.	Registration No.	Patent Name
1	10-2009-0029889	10-0936395	Manufacturing method shell
2	20-2013-0002296	20-0470767	Easy rolling mill coolant intrusion prevention
3	10-2007-0015700	10-0799508	Roll chock, manufacturing method thereof and rolling mill
4	10-2007-0054759	10-0799506	Top back up roll chock, bottom back up roll chock, and rolling mill
5	10-2010-0015023	10-1131013	Roll fixing structure and fixing method
6	10-2010-0009910	10-1033811	Structure for fixing shaft and oil bearing
7	10-2010-0009913	10-1033812	Oil bearing
8	10-2007-0015873	10-0777673	Work roll chock, manufacturing method thereof and rolling mill
9	10-2015-0104101	10-1760567	Apparatus for manufacturing shell
10	10-2015-0104102	10-1760568	Apparatus for polishing sleeve
11	10-2016-0058675	10-1823944	Apparatus and method for manufacturing ingot of titanium

## R&D Achievements

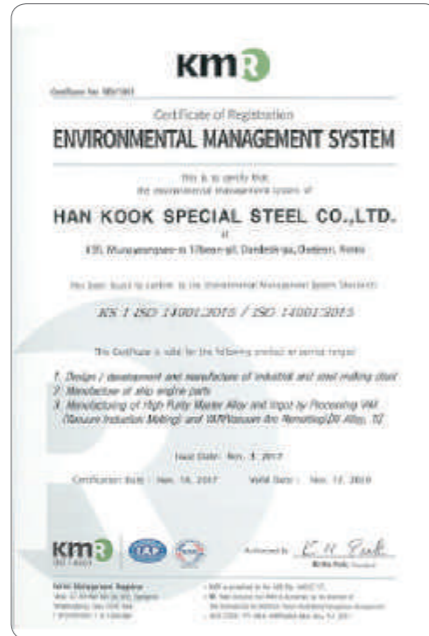
Order	Development Period	Project Name	Development (Project) Name
1	2004. 07 ~ 2005. 12	Joint research	Cast steel cylinder cover 70MC-C development approval (MAN B&W DIESEL A/S)
2	2005. 03 ~ 2006. 08	Joint research	Cast steel cylinder cover 98MC-C development approval (MAN B&W DIESEL A/S)
3	2005. 06 ~ 2006. 11	Joint research	Cast steel cylinder cover RTA96C development approval (WÄRTSILÄ)
4	2008. 08 ~ 2009. 07	Technological innovation development	Development of oil bearing for rolling mills
5	2009. 06 ~ 2010. 05	Large, medium & small win-win research society	R2-F3 BUR& Roll Chock fusion prevention technology
6	2011. 05 ~ 2011. 10	Production field Digitalization Business	Establishment of a POP system for production management for post-processing of casting products
7	2011. 09 ~ 2012. 02	Excellent technology research, transfer and supply	Selection of new item development
8	2013. 06 ~ 2015. 05	Government-civilian joint investment technology development	Development of technology for manufacturing highly strong and effective metal bearings
9	2014. 06 ~ 2017. 05	Special district technology commercialization	Development of manufacturing technology for titanium intermediate products by Vacuum Arc Remelting and Electro Magnetic Continuous casting
10	2014. 12 ~ 2019. 09	Energy technology development	Development of Advanced Neutron Absorber Material for Spent Fuel Shipping and Storage Cask
11	2015. 05 ~ 2018. 04	Localization of components	Development of localization of components for Army Logistics Command
12	2016. 04 ~ 2016. 12	Support for automobile and advancement	Establishment of a system for digitalizing casting process lines adopting vacuum melting
13	2016. 05 ~ 2018. 12	Energy technology development	Development of Recycling Complex Process of Inconel Alloy Scrap and Recovery of Alloying Elements (Ni, Mo) for Heat-Resistant Master Alloy Manufacture
14	2017. 07 ~ 2017. 11	Establishment of a foundation for using and spreading engineering SW	Improvement of defects of master alloy for car turbo chargers through casting simulations
15	2017. 12 ~ 2020. 11	Core technology (application) assignment	Development of TiAl-Based Material improving brittleness at room temperature



# Quality Assurance



ISO 9001



ISO 14001



PosQC Certificate



VIM (25kg/charge)



Spark Emission Spectrometer



Gas Analysis



Mechanical Test



MT



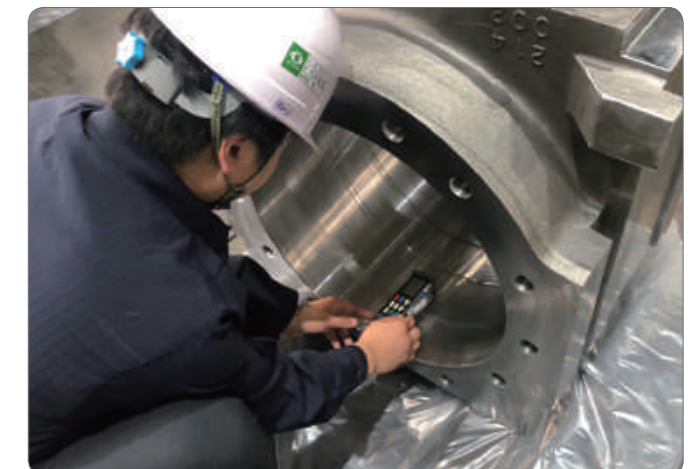
UT



Chemical Analysis



Dimension Inspection



Roughness Inspection