

Ladle Refining

Project	Start	Completion	Location	Client	Capacity	
POSCO Pohang Steelworks						
New Steel-Making Plant RH	Dec. 2007	Apr. 2010	Pohang Steelworks	POSCO	35 CH/D (330 T/ch)	Duplex-RH facility (POSCO E&C patent application) is supplied for production enlargement of existing No.1 steel-making plant(110T/Ch) - 2Booster/2Ejector/2Condenser/3WRP - 2 Vessel / 2 Ladle Transfer Car - Multi-function burner - Dust tank system
No.3 RH for No.2 Steelmaking plant	Aug. 2006	Jul. 2007		POSCO	RH: 35 CH/D (330 T/ch)	Duplex-RH facility (POSCO E&C patent application) improved in the capabilities of production & vacuum treatment is supplied. - 3Booster/2Ejector/2Condenser/3WRP - 2 Vessel / 2 Ladle Transfer Car - Multi-function burner
Revamping of No.2 RH for No.1 Steelmaking plant	Apr. 2005	Feb. 2006		POSCO	25CH/Day (110 T/ch)	○Revamping of obsolete facilities - Capacity enlargement in vacuum vessels / vacuum pumps - Modernization of Alloy equipment - Modernization of Relining & Preheating equipment - Modernization of Transger car & Bubbling equipment ○Key facilities - 2Booster/2Ejector/2Condenser/3WRP - Vessel Transfer Car Type - Introduction of Multi-function Burner

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CHIS for No.2 Steelmaking plant	Jul. 2004	Dec. 2004	Pohang Steelworks	POSCO	2.1 million T/Y	<ul style="list-style-type: none"> ○Key facilities - Snorkel Rotating & Lifting equipment - O₂ & PI Lance equipment - Snorkel Transfer Car - Alloy equipment & Wire feeder - PLC control system ○Process effects in CHIS(Cheical Heating in Snorkel) - O₂ pick-up prevention in alloy charging - Increase in Alloy consumption for Slag Free molten-steel - Operation time reduction with rapid heating speed(ave.15°C/min) - Electrical Arc
Revamping of No.1 RH / VTD for No.2 Steelmaking plant	May 2002	Dec. 2002		POSCO	RH: 25 CH/D VTD: 3 CH/D (330 T/ch)	<ul style="list-style-type: none"> ○PHD(POSCOENC Hybrid Degasser) - Revamping of the old-fashioned RH Facility - Create VTD Degassing facility (Heat size : 320ton/heat) - Diversity and state-of-the-art of Production steel grade ○Main facilities - 3Booster / 2Ejector / 2Condenser / 3WRP - RH/VTD + 1 Vacuum Pump System - Adopted Swiching Duct (POSCO E&C Patent)
LF for No.1 Steelmaking plant	Apr. 2000	Dec. 2001		POSCO	105 T/H x 20 CH	<p>The project that creation of LF (Ladle Furnace) 1 set for the production system of POSCO Pohang No.1 Steel making plant strategy product</p> <ul style="list-style-type: none"> - Arcing Equipment - Alloy addition equipment - Powder Injection facility - Transfer cars - Utility facility, Hoist, etc.
LF for No.2 Steelmaking plant	May 1995	Dec. 1997		POSCO	330 T/H x 20 CH	<p>The project that creation of LF (Ladle Furnace) 1 set for the production system of POSCO Pohang No.2 Steel making plant strategy product</p> <ul style="list-style-type: none"> - Arcing Equipment - Alloy addition equipment - Powder Injection facility - Transfer cars - Utility facility - System - Hoists, etc

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POSCO Gwangyang Steelworks						
No.3 RH for NO.1 steel making plant	Apr. 2008	Aug. 2009	Gwangyang Steelworks	POSCO	RH: 33 CH/D (275 T/ch)	<p>A project to construct a Duplex-RH facility to treat the amount of De-gas as increasing amount of hot metal for new steel making plant in Kwang-Yang and eliminate the Neck-operation for existed NO.1 steel making plant in Kwang-Yang.</p> <ul style="list-style-type: none"> - Heavy vacuum: 2 Booster / 2 Ejector / 2 Condenser / 4 WRP - 3 Hot-off take / 3 Upper-Vessel / 4 Lower-vessel - Multi-function burner
RH-VTD for Increasing productivity of plate	Feb. 2008	Apr. 2010		POSCO	RH/VTD: 30 CH/D (280 T/ch)	<p>A project to construct a RH-VTD facility as constructing a new plate mill producing luxury plates(TMCP,ASP) 2 million ton annually.</p> <ul style="list-style-type: none"> - Heavy vacuum: 2 Booster / 2 Ejector/ 2 Condenser / 6 WRP - 2 Vessel / 1 Ladle Transfer Car - Multi-function burner
No.2 RH-TOB for No.2 steel making plant	Aug. 1998	Jun. 2000		POSCO	2.54 million T/Y	<p>A revamping project of vacuum facility and EIC facility to renovate aged facility such as vacuum vessels and pump and produce stratgic steel like a plate of car</p> <ul style="list-style-type: none"> - Heat Size (325 T/H) - Vacuum Unit (Booster 2, Ejector 3, Water Ring Pump 3)
No.2 RH-POSB for No.2 steel making plant	Aug. 1998	Feb. 1999		POSCO	2.3 million T/Y	<p>POSCO E&C renovated aged facilities such as vacuum vessels and pumps to increase their exhaust capacity and decarbonization capability, and established a system for the production of ultra-low-carbon steel for steel sheets for automobiles.</p> <ul style="list-style-type: none"> - Heat Size(275 T/H) - Vacuum Unit(Booster 2, Ejector 3, Water Rng Pump 3)

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No.2 RH-POSB for No.1 steel making plant	May-98	Nov. 1998	Gwangyang Steelworks	POSCO	2.3 million T/Y	<p>POSCO E&C renovated aged facilities such as vacuum vessels and pumps to increase their exhaust capacity and decarbonization capability, and established a system for the production of ultra-low-carbon steel for steel sheets for automobiles.</p> <ul style="list-style-type: none"> - Heat Size(275 T/H) - Vacuum Unit(Booster 3, Ejector 3, Water Rng Pump 3)
No.1 RH-TOB for No.2 steel making plant	Feb. 1998	Jul. 1998		POSCO	2.3 million T/Y	<p>POSCO E&C renovated aged facilities such as vacuum vessels and pumps to increase their exhaust capacity and decarbonization capability, and established a system for the production of ultra-low-carbon steel for steel sheets for automobiles.</p> <ul style="list-style-type: none"> - Heat Size(275 T/H) - Vacuum Unit(Booster 2, Ejector 3)
LF for No.1 Steelmaking plant	Apr. 1997	Jun. 1998		POSCO	275 T/H x 20 CH	<p>A project to construct Ladle Furnace to establish a production system for main products of Gwangwang No.1 steel making work.</p> <ul style="list-style-type: none"> - Heating system - Flux and Ferro-alloy handling system - Power Injection system - Transfer car - Utility supply system - System - Hoist
No.1 RH-TOB for No.1 Steelmaking plant	Nov. 1996	Sep. 1997		POSCO	2.3 million T/Y	<p>A project to establish a production system of high quality steel by the economical and optimum vacuum facility that is considering limited flow rate of cooling water and steam of the existing facilities.</p> <ul style="list-style-type: none"> - Heat Size(275 T/H) - Vacuum Unit(Booster 2, Ejector 3, Water Rring Pump 3)