

# Oxygen Converter

Project	Start	Completion	Location	Client	Capacity	
POSCO Pohang Steelworks						
Pohang New steelmaking plant	Dec. 2007	Apr. 2010	Pohang Steelworks	POSCO	4.6 milion T/Y	<p>A project to increase annual production capacity to 4.65 million tons by improving compatibility, cost saving, and the quality of the converter furnace operation via the introduction of facilities with the same capacity as those of No.2 steelmaking plant for the purpose of enhancing the competitiveness of the small No.1 steelmaking plant at Pohang Steelworks.</p> <ul style="list-style-type: none"> <li>- De-P converter 1 set, De-C converter 1 set</li> <li>- Heat Size: Max. 345 ton</li> <li>- Boiler system for waste heat, Hot metal charging crane</li> <li>- Bag filter precipitator</li> </ul>
De-P Converter for No.2 Steelmaking plant	Feb. 2005	Mar. 2007		POSCO	4.5 milion T/Y	<p>A project to construct a De-P converter in No.2 steelmaking plant for the purpose of establishing a system for high quality steel (electro plated steel plates and API) and cost saving to meet the productivity of annual capacity of 1.5 million tons FINEX Plant.</p> <ul style="list-style-type: none"> <li>- Heat Size: Max. 300 ton</li> <li>- Boiler system for waste heat, Hot metal charging crane</li> <li>- Bag filter precipitator</li> </ul>
Revamping of No.1 Steelmaking plant (2nd step)	May 1996	Dec. 1997		POSCO	2.5 milion T/Y	<p>A project to improve the capacity of aged No.1 steelmaking plant by revamping the converter shell, trunnion ring, tilting equipment and other converter facility.</p> <ul style="list-style-type: none"> <li>○ Converter capacity : 110ton (Inner volume : 81m<sup>3</sup>)</li> <li>○ Main facility</li> <li>- Converter shell and converter tilting equipment</li> <li>- Cooling facility for converter shell</li> <li>- Converter trunnion ring</li> <li>- Combined blowing technology adopting, localization of Converter bearing block, Material conversion of Converter shell and trunnion ring (SGV 42-CR)</li> </ul>

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POSCO Gwangyang Steelworks						
Converter of SMP for Gwangyang Plate Mill Project	Feb. 2008	Apr. 2010	Gwangyang Steelworks	POSCO	2.43 million T-S/Y	<p>Capacity: 2,430,000 T-S/year (Converter : 280 T/ch)                      Summary: A project to newly construct KR(2sets) &amp; converter(1set) facilities for the purpose of producing high grade steel plate(TMCP,API)</p> <p>○Main facility                      1. KR Facility (De-S) : 250 T/ch x 2 set                      - KR Facility, Transfer car, Pouring pit, etc.                      2. Converter : 280 T/ch x 1 set                      - Converter, Gas cooler, Waste gas treatment facility, O2 Lance Facility                      3. Auxiliary facility                      - Ladle, Relining facility, Water supply equipment, Compressor, Power Receiving&amp;Sending station, Transformer,etc.</p>
De-P converter of No.2 steel making plant	Jun. 2006	Dec. 2007		POSCO	4.5 million T-S/Y	<p>A project to newly construct KR(3sets) &amp; converter(1set) facilities for the purpose of establishing a system for the mass production of strategic products.</p> <p>○Reduction of construction period : 19 months → 16.5 months                      ○Main facility                      - Converter vessel, KR Facility, Gas cooler                      - Electrostatic Precipitator, Water supply equipment, Utility facility                      - Flux charing equipment, Main Lance, Transfer car</p>
N2 Splash Slag Coating of No.2 steel making plant	May 2000	Mar. 2001		POSCO	8.5 million T/Y	<p>After converter tapping, this facility add coating materials, such as magnesia, dolomite, to slag in converter and uniformly attach them to refractory bricks by blowing high pressure N2 gas through lance.                      This facility allows stable maintenance of converter and long life time of refractory bricks. As a result, it is expected to reduce expenses.</p> <p>○Main facility                      - N<sub>2</sub> Compressor / N<sub>2</sub> Piping / N<sub>2</sub> Holder - Control System                      ○Applied technology: Automatic control of N2 pressure, flow rate &amp; operation technique of N2 coating</p>