

# Sintering

| Project                         | Start     | Completion | Location                    | Client                 | Capacity   |  |
|---------------------------------|-----------|------------|-----------------------------|------------------------|------------|--|
| Australia BSL Project           | Feb. 2007 | Apr. 2009  | BSL, Port kembla, Australia | BSL (Blue Scope Steel) | 18,000 T/D | <p>BSL project was performed to replace worn out equipment in accordance with increasing productivity(+1,100,000T/Y, 20%UP) and longterm operation in BSL No. 3 Sinter plant Australia (5,500,000 T/Y).</p> <ul style="list-style-type: none"> <li>- Effective suction area: 420m<sup>2</sup> → 480m<sup>2</sup></li> <li>- Production: 15,000 T/D → 18,000 T/D</li> <li>- Productivity: 40.5 T/D/m<sup>2</sup></li> <li>- Availability: 93 %</li> </ul>   |
| POSCO Pohang Steelworks         |           |            |                             |                        |            |  |
| No. 3 Sintering Plant Revamping | Nov. 2004 | May 2006   | Pohang Steelworks           | POSCO                  | 17,500 T/D | <p>Pohang No. 3 Sintering Plant Revamping project was performed to increase productivity of sinter ore (+1,440,000T/Y, 31.1% UP) in accordance with enlargement of Pohang No. 3 Blast Furnace and change of worn out equipments through longterm operation..</p> <ul style="list-style-type: none"> <li>- Effective suction area: 400m<sup>2</sup> → 504m<sup>2</sup></li> <li>. Sintering machine Pallet width extension: 4m → 4.5m</li> <li>. Sintering machine lenth extension: 100m → 112 m</li> <li>- Production: 12,700 T/D → 17,500 T/D</li> <li>- Bed Height: 660m → 760 m</li> <li>- Shutdown: 52 Days</li> </ul> |

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|--|-----------|------------|----------------------|--------|--------------------------------------|---|
| <b>POSCO Gwangyang Steelworks</b>                          |           |            |                      |        |                                      |   |
| No. 2 Sintering Plant Revamping                            | Jun. 2006 | Dec. 2007  | Gwangyang Steelworks | POSCO  | 18,000 T/D                           | <p>Gwangyang No. 2 Sintering plant revamping project was performed to increase productivity for stable supply of sinter ore after enlargement Gwangyang No. 3 Blast Furnace and replace worn out equipments through longterm operation.</p> <ul style="list-style-type: none"> <li>- Effective suction area: 450m<sup>2</sup></li> <li>- Production: 15,200 T/D → 18,000 T/D</li> <li>- Productivity: 34T/D/m<sup>2</sup> → 40 T/D/m<sup>2</sup></li> <li>- Availability: 98.4 % → 99 %</li> <li>- Bed Height: 850 mm → 1,000 mm</li> <li>- Shut down period: 36 Days</li> </ul>  |
| No. 2&4 Sintering Plant Revamping (Pallet width extension) | Mar. 2003 | May 2004   |                      | POSCO  | 15,200 T/D(No.2)<br>16,100 T/D(No.4) | <p>Gwangyang No. 2 &amp; No.4 Sintering plant revamping project was performed to increase effective suction area and revamp related equipments for increasing sinter ore production.</p> <ul style="list-style-type: none"> <li>- Effective suction area:                             <ul style="list-style-type: none"> <li>Gwangyang No. 2 Sintering Plant 400m<sup>2</sup> → 450m<sup>2</sup></li> <li>Gwangyang No. 4 Sintering Plant 424m<sup>2</sup> → 477m<sup>2</sup></li> </ul> </li> <li>- Productivity: 37T/D/m<sup>2</sup> → 38T/D/m<sup>2</sup></li> <li>- Bed Height: 880mm</li> <li>- Shutdown: Gwangyang No. 2 Sintering Plant 26 Days<br/>Gwangyang No. 4 Sintering Plant 30 Days</li> </ul> |
| No. 1&3 Sintering Plant Revamping (Pallet width extension) | Apr. 2001 | Aug. 2002  |                      | POSCO  | 15,300 T/D                           | <p>This project was performed to increase effective suction areas of Gwangyang No. 1 &amp; No.3 sintering plant and revamp related equipment for increasing sinter ore production in accordance with operation of Gwangyang No. 5 blast furnace.</p> <ul style="list-style-type: none"> <li>- Effective suction area: 400 m<sup>2</sup> → 450 m<sup>2</sup></li> <li>. Sintering machine pallet width extension: 4 m → 4.5 m</li> <li>. Cooler width extension: 4 m → 4.6 m</li> <li>- Production: 13,180 T/D → 15,300 T/D</li> <li>- Bed Height: 880 mm</li> <li>- Ignition furnace revamping: Reflection side burner → Multi slit burner</li> <li>- Shutdown: 28 Days</li> </ul>                            |