HIGHLY EFFICIENT TWIN RH
WITH GROUNDBREAKING CVL LIFTING SYSTEM AND MECHANICAL VACUUM PUMPS
The demand for high-quality steel is increasing significantly. As a consequence, Primetals Technologies has decided to develop a revolutionary RH degassing plant. A reliable, safe and maintenance-friendly RH process is the challenge of every producer.

Primetals recently commissioned a Twin RH, which is a high-end solution to decrease cost as a consequence of operating efficiency.

**SOLUTIONS**

High quality production based on twin RH that offers highest flexibility in steel grades and highest energy efficiency.

In combination with the newly developed CVL (Combined Vessel and Ladle Lifting) system the plant provides flexibility, on a very small footprint since it combines ladle lifting and vessel exchange capabilities.

It is an optimized logistics solution being accessible from both sides and allows a “drive-through” material flow. Even RH treatment in areas unreachable for cranes will be possible.

With the modern mechanical vacuum pumps, which offers maximum flexibility, it is the perfect combination.

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**MAIN BENEFITS MECHANICAL PUMPS**

- Reduced operational cost
- Optimized energy consumption by demand actuated control (frequency controlled motors)
- Maximum flexibility
  - energy consumption only during operation
  - no extra personal costs
- No contact of process dust with pumps due to low tolerances of pumps
  - utilization of vacuum bag filter mandatory
- Low maintenance cost
- Less design height compared to steam injector pumps

**MAIN BENEFITS CVL (COMBINED VESSEL AND LADLE LIFTING SYSTEM)**

- Less investment cost for steel structure and foundation
- Less design space needed
- Combined ladle lifting and vessel exchange
- Less crane actions needed
- High safety due to reduced squeezing zones
- Accessibility from both sides
- Linear lifting and lowering movement
- Possibility to retrofit existing steel plants, even from other vendors
- Safe and clean plant environment, due to less movable parts and thereby tighter connections

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**SCOPE OF SUPPLY**

- Twin RH 110 t
- Combined Vessel and Ladle Lifting System
- Suction line, gas cooling
- Vacuum pump house
- Mechanical vacuum pump, modular design
- Vacuum bag filter

**PLANT DATA**

- Twin Ruhrstahl Heraeus
- Heat size 110 t
- Vacuum pump suction capacity 2500 kg/h at 80 mbar and 270 kg/h at 1 mbar
- COG Lance Spark plug ignition
- Vessel diameter 2500 mm
- Plant design Twin RH/ Ladle lifting by CVL
- Produkt Mix ULC, LC, MC, HSLA, TRIP

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**HIGHLY EFFICIENT TWIN RH WITH GROUNDBREAKING LIFTING SYSTEM AND FLEXIBLE MECHANICAL PUMPS**
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