



## HOT BLAST SYSTEM SMART REPAIRS

### REDUCE DOWNTIME OF YOUR STOVES REPAIRS

Primetals Technologies can offer a competitive and effective repair for your plant, based on our successful track record worldwide.

Our solutions are focussed towards the reduction of costs and down time of your plant. As a technology partner for your blast furnace and hot blast stoves we can help you maximize your productivity!

### YOUR CHALLENGE

The hot blast stoves are key equipment that need to be working efficiently for optimal performance of the blast furnace. Over the life of a stove, repairs can be required in the high stress areas such as dome, dividing wall, ceramic burner and outlets. Furthermore, stoves of older design are more likely to suffer from premature failures and quicker degradation. Typically the stove requires to be taken offline to be repaired which has significant impact on the blast furnace production.

### OUR SOLUTION

Primetals Technologies is able to offer you quick and efficient methods of repairing those key areas in hot condition, minimizing the downtime of the stove and impact on production.

Furthermore, as pioneers in hot repairs, Primetals Technologies can offer to eliminate the root cause for those failures with our in-house expert analytical design services. Primetals Technologies has a number of references of hot repairs which have been carried out all over the world. It is recommended that prior to a hot repair the performance of the stove against its design is studied, to determine the root cause and ensure full and proper problem resolution.

We can offer hot repair for both internal and external stoves.

### MAIN BENEFITS

- Quick and efficient repairs
- Proven safety record
- Protect your investment



Damaged internal stove



Repaired internal stove

### THE HOT REPAIR AREAS

- **Ceramic burner** – Complete or partial repair of the ceramic burner. In case of premature failure, root cause analysis must be performed. Primetals Technologies ceramic burner design can be retrofitted to replace failing burners and will offer better reliability and life expectancy
- **Hot blast outlets** – as a high stress area it is important that the outlets are replaced with a new improved Primetals Technologies state-of-the-art design, including the relieving arch. The new design will improve the life expectancy of the stove
- **Ignition burner outlet** - this can also be replaced with a new design to improve the stability and lifetime of the stove
- **Dividing wall** – repairs of the dividing wall can be accomplished in the lower part of the stove, typically below the hot blast outlet branch

### OTHER AREAS

- Ceramic welding
- Process studies
- Grouting hot spots
- Refractory inspections

### PRIMETALS TECHNOLOGIES SERVICES WILL GIVE YOU

- Lower installation costs
- Reliable ceramic burner design
- Longer lifetime of your assets

### MAIN BENEFITS OF HOT REPAIRS

- No cool down required, save up to 34 days downtime
- Execution typically within 14 day schedule
- Maintain dome temperature close to working condition
- Keep blast furnace in operation during hot repair
- Superior design of ceramic burner

**Primetals Technologies Ltd**  
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Order No. T01-3-N688-L3-P-V2-EN  
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