ADVANCED CASTHOUSE TECHNOLOGY FOR BLAST FURNACES
DON’T LET TAPPING EQUIPMENT LIMIT YOUR BLAST FURNACE PROCESS

CUSTOMIZED LAYOUTS FOR BLAST FURNACES FROM 300–6,000 m³

- Clay Guns
- Taphole Opener
- Cover Manipulators and Covers
- Tilting Runner Drives and Cradles
- Torpedo Level Measurement
- Cast House Hydraulic System
- Electric Control Systems (from manual to full automatic)
- Consumables
- Tapping Manager Software
- Condition Monitoring
- Auxiliaries: Jack Dam Drill, Rod Changer, Clay Loader
- Turnkey Installation Services

> 250 UNITS IN OPERATION

HIGHEST OPERATOR SAFETY
BEST ENVIRONMENTAL PROTECTION
COVER MANIPULATOR

- Presently 15 customized types designed
- More than 250 in operation

> 250 UNITS IN OPERATION
REPEATABLE
SAFE PLUGGING
CLAY GUN
- Highest reliability based on more than 700 units in operation
- Barrel tempering for less clay consumption

SMOOTH DRILLING
FOR HIGHEST TAPHOLE PROTECTION
TAPHOLE OPENER
- More than 800 units in operation
- 8 drill hammer types to match your furnace size
- Up to 1’200 Nm torque

> 700 UNITS IN OPERATION

> 800 UNITS IN OPERATION
Customized Solutions
Safety of casthouse personnel and casthouse emission control call for cover manipulators.
For highest layout flexibility TMT cover manipulators combine tilting, linear and slewing movements with rail or column mounted and low-profile floor mounted solutions.

/ MOVEMENT TYPES

Fits any furnace size
Lifting capacity 30 tons and more

Fits any new or existing casthouse layout
Flexible and adaptable designs

Reliable and low maintenance cost
Based on hundreds of furnaces equipped
REPEATABLE  
ACCURATE  
DRILLING

TAPHOLE OPENER

TMT offers largest range of performance levels and designs suitable for any operational demands
All TMT-BBG drill hammer types have been developed in-house, specifically for casthouse applications.

/ LAYOUT VARIANTS
- Single motion type
- Slewing and tilting machines
- Slewing and lifting system
- Taphole Openers mounted on pedestal, BF column or underneath tuyere platform

/ PRODUCT INNOVATION HS600

World’s only hammer with online performance adaption
Full automatic operation available for highest level of taphole protection

/ YOUR BENEFITS

Highest reliability, lowest lifecycle costs
Based on more than 5 decades of experience in design and manufacturing

Avoid sticking drill bars
Integrated reverse hammering guarantees drill bar pull out under any circumstances

One bit + bar
Proven one bit + bar per opening performance
PRECISE REPEATABLE SAFE PLUGGING

CLAY GUN

Lowest Operational Cost
Ultra high wear resistant barrels and barrel sleeve solutions far exceed standard barrel lifetimes. High performance tempering technology to process even the most demanding clay masses.

/ CLAY VOLUME AND PRESSURE

Performance range matching any blast furnace size
Multiple performance levels and sizes are readily available to optimally match your blast furnace requirements.

/ YOUR BENEFITS

Taphole protection
Sophisticated control solutions prevent damage to the taphole structure and refractory (soft touch)

Availability
Clay guns are relevant for processing safety. Reliability and availability guide the design

Cost reduction
Tempering technology reduces clay consumption and maintenance efforts
Hydraulic and electrical controls designed for normal and emergency operation

Controls span from full automatic manless casthouse operation to simple manual operation. Specially developed algorithms like “soft touch”, “interval ramming”, intelligent hammer control ... provide complete process flexibility and record process data.

This data is the basis for Industry 4.0 / IoT tools like our “Tapping Manager” or “Condition Monitoring”, providing operators with valuable information. Naturally, TMT control systems easily integrate or interface to higher level blast furnace controls. Compact high end hydraulics reliably provide power and equipment control in easy to maintain packages.

/ YOUR BENEFITS

Industry 4.0 / IoT
Tapping Manager
Condition Monitoring
Process Monitoring

No interface issues
Fully integrated and single point responsibility

Fast commissioning and steep plant ramp-up
Extensive workshop testing and preset controls
NO MATTER WHERE, SUPPORT IS JUST AROUND THE CORNER. WORLDWIDE.

Maximum equipment availability

With TMT you have local support around the world. OEM subsidiaries and workshops spread around the globe are ready to assist you throughout the lifetime of the equipment.

/ SERVICES

- Comprehensive refurbishments to extend the lifetime of your equipment
- Tailor made technology upgrades to boost the performance of existing equipment and to increase the safety level
- Site surveys and preventive maintenance to ensure availability of the equipment
- Supply of OEM spare parts and consumables to ensure reliable performance