

READY TO EXCEED.



**TMT** TAPPING  
MEASURING  
TECHNOLOGY

# WORLDWIDE AVAILABLE.

**TMT SERVICES**



# SERVICES ON DEMAND THROUGHOUT THE ENTIRE LIFECYCLE

## RETROFIT & UPGRADE

OPTIMIZED OEM COMPONENTS

## MODIFICATION

TECHNICAL SUPPORT

## REFURBISHMENT

OEM REFURBISHMENT

## REPAIR

REPAIR ASSISTANCE

## TROUBLESHOOTING

LOCAL SUPPORT  
REMOTE SUPPORT

## INSPECTION

OPERATING, MAINTENANCE AND  
OEM SPARE PARTS RECOMMENDATIONS





## **NEW EQUIPMENT REQUIRED**

**CUSTOMIZED OPTIMAL EQUIPMENT SOLUTIONS  
MACHINE SAFETY REGULATIONS**



## **ERECTION**

**ERECTION SUPERVISION**



## **COMMISSIONING**

**COMMISSIONING ASSISTANCE**



## **OPERATION**

**OPERATOR TRAINING  
PROCESS OPTIMIZATION SUPPORT  
DRILLING TESTS  
CONSUMABLE SUPPLY**



## **MAINTENANCE**

**MAINTENANCE TRAINING  
OEM SPARE PARTS SUPPLY  
HAMMER SERVICE**

# ALWAYS ON THE SAFE SIDE

**TMT SPARE PARTS, CONSUMABLES  
& REFURBISHMENTS**

**/ TAP HOLE OPENER SLEWING SYSTEMS  
BEFORE AND AFTER REFURBISHMENT**

**High quality OEM spare parts and refurbishments maximise the lifetime of TMT equipment.**

The efficient and safe operation of a blast furnace requires reliable tapping machines and probes. OEM spare parts and refurbishments are crucial for the availability of critical furnace equipment, especially if your equipment happens to be 20 - 30 years old.

We can provide critical TMT spare parts with minimum lead time, e.g. in case of emergency. TMT furthermore offers individual spare parts consulting services up to customer spare parts stock management assistance for TMT equipment. TMT also supplies drill bars and bits designed for optimum drilling performance under variable tap hole conditions.

TMT equipment refurbishments combine the use of OEM spare parts with TMT's quality standard. Equipment parts refurbished by TMT therefore benefit from a TMT warranty on all refurbished or replaced components. 15 group workshops provide TMT equipment servicing all over the world.



## **/ YOUR BENEFITS**

### **Durability**

Maximum equipment performance & longest lifetime

### **Operational safety**

State-of-the-art OEM spare parts & consumables for optimum safety of operation

### **Warranty**

TMT warranty on refurbished TMT equipment

# PERFECT CARE

## TMT HAMMER SERVICE

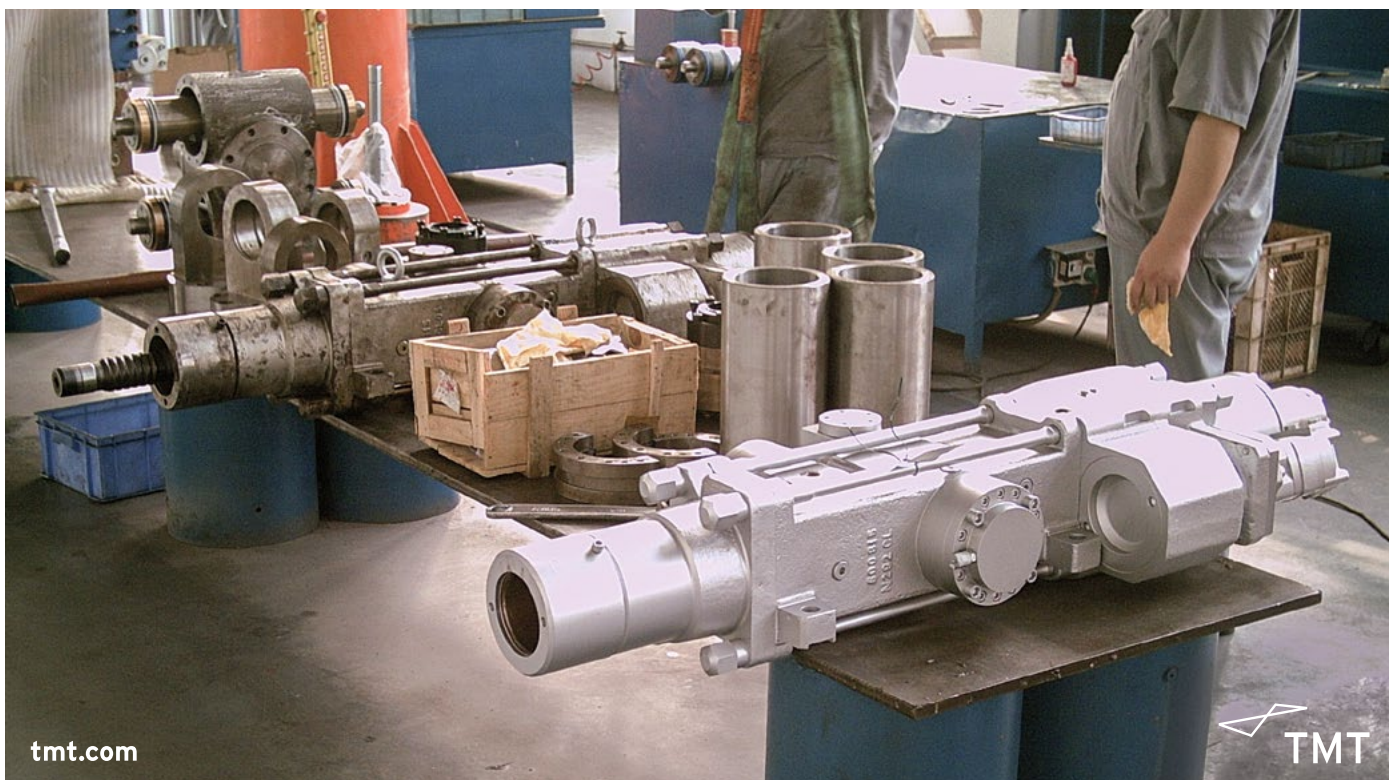
**Hydraulic and pneumatic hammers are heavy-duty equipment and they are essential for optimum tapping.**

TMT-Group service centers provide TMT hammer refurbishments and repairs according to OEM standards all over the world. Our hammer service center network covers 6 continents: Europe, Asia, North America, South America, Africa and Australia/ Oceania.

In a first step, trained specialists dismantle and analyse the hammer components in the service center.

In a second step, an inspection report containing TMT's repair and reuse recommendations will be issued to the customer for approval. On top of that, customers generally receive operation and maintenance advice based on the wear pattern of their TMT hammers.

TMT hammers that have been refurbished in a TMT-Group service center are furthermore covered by a TMT warranty on the repair scope.



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### / YOUR BENEFITS

#### **Efficient refurbishment**

Minimum replaced OEM parts during hammer refurbishment

#### **Full control**

Customer validates repair scope before start of work

#### **OEM warranty**

OEM warranty on refurbished TMT hammers

# EXPERT SUPPORT - ALL OVER THE WORLD

## TMT TECHNICAL ASSISTANCE

**Repair assistance, operator training, equipment troubleshooting, you name it - we provide it!**

TMT-Group offers a large service network to our customers with service bases all over the world. Our service product portfolio covers the complete lifecycle of TMT equipment.

Our vast design and service experience allows us to provide to the point technical assistance on TMT equipment.

We cope with a large span of customer assistance requirements depending on our client's maintenance philosophy and organisation including their individual repair schedules.

TMT provides both local & remote technical assistance depending on the specific situation.



### / YOUR BENEFITS

#### **Expertise and experience**

High-level technical OEM competence paired with more than a century of experience

#### **Availability**

Large service network providing skilled service personnel all over the world

#### **Providing the support you need**

High flexibility of TMT assistance matching our customers' demands

# LET US HAVE A CLOSE LOOK

## TMT EQUIPMENT INSPECTIONS

### In-depth analysis of the current condition of tapping equipment and probes

Changing organisation structures and personnel assignments are normal practice in many plants of our customers today. Long-term knowledge management for both operation and maintenance personnel can become challenging under these circumstances.

We offer TMT equipment inspections providing an in-depth evaluation of the current condition of tapping equipment and probes. Mechanics, hydraulics and EIC can be in the focus of these inspections. A detailed inspection report informs our customers on recommended action points, both from a maintenance as well as from a spare part point of view. Equipment inspections are ideal occasions to discuss available TMT equipment upgrades and new TMT software features. These inspections can easily be combined with operator or maintenance personnel training including the review of current operating practice.



### / YOUR BENEFITS

#### Inspections performed by OEM specialists

High equipment reliability  
and minimum downtime

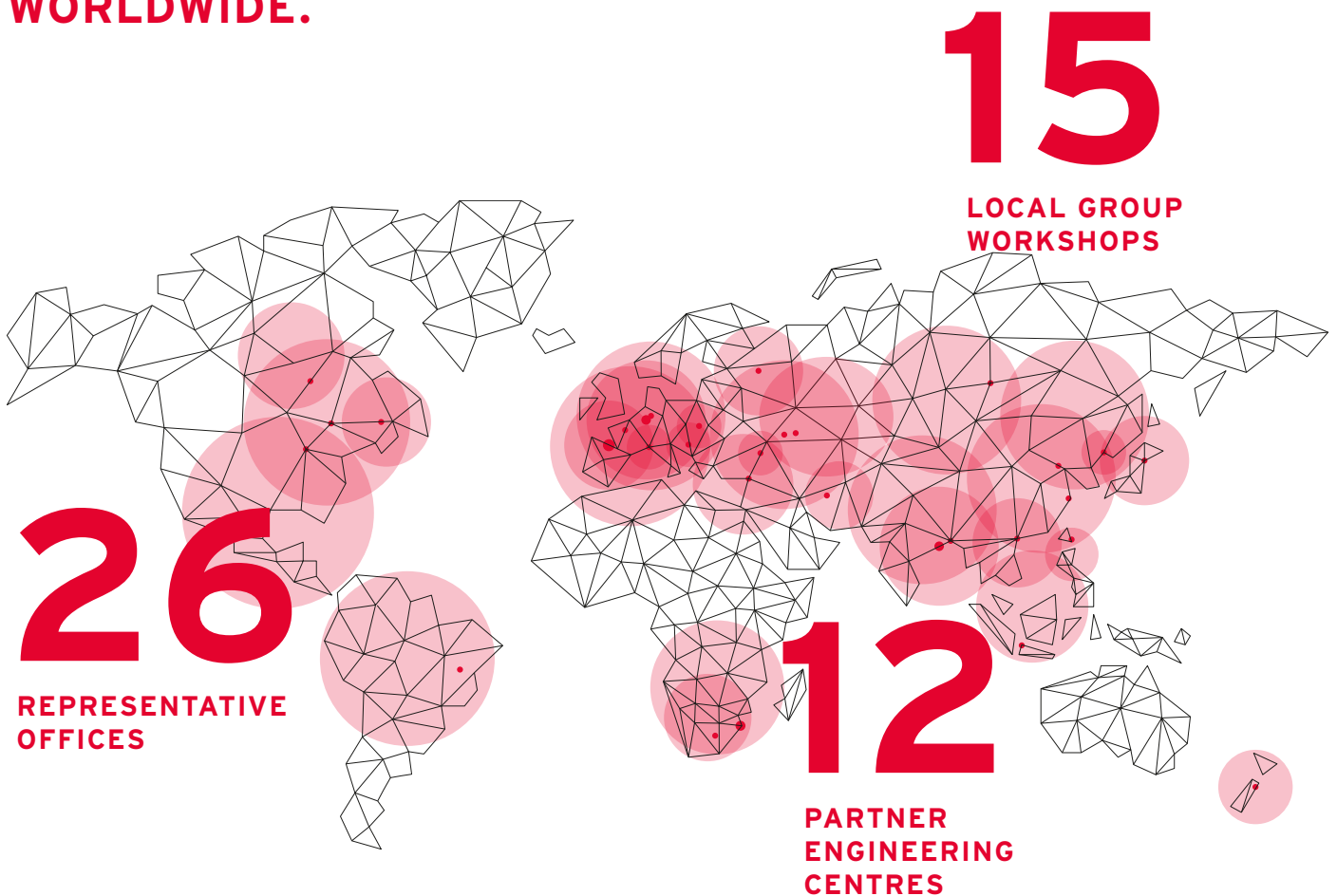
#### Safe equipment operation and reduced operating costs

TMT recommendations on  
customers' equipment operation  
and maintenance practice

#### Cost optimization

Cost reduction by combining  
equipment inspections with  
operator training

**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