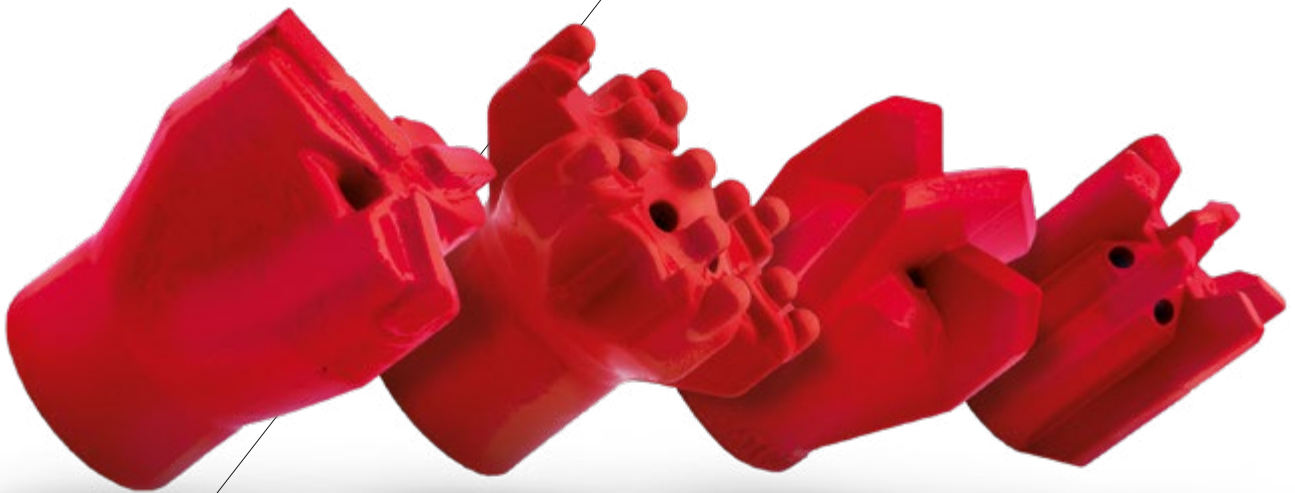


# WEAR PARTS + CONSUMABLES

PRODUCT INFORMATION

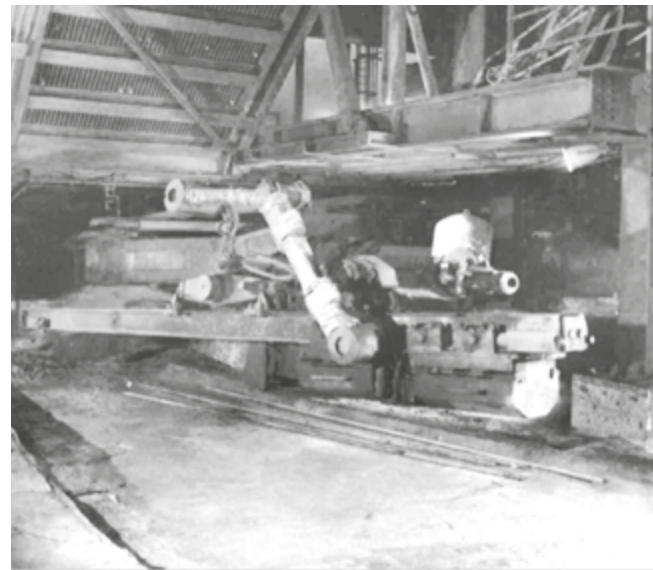
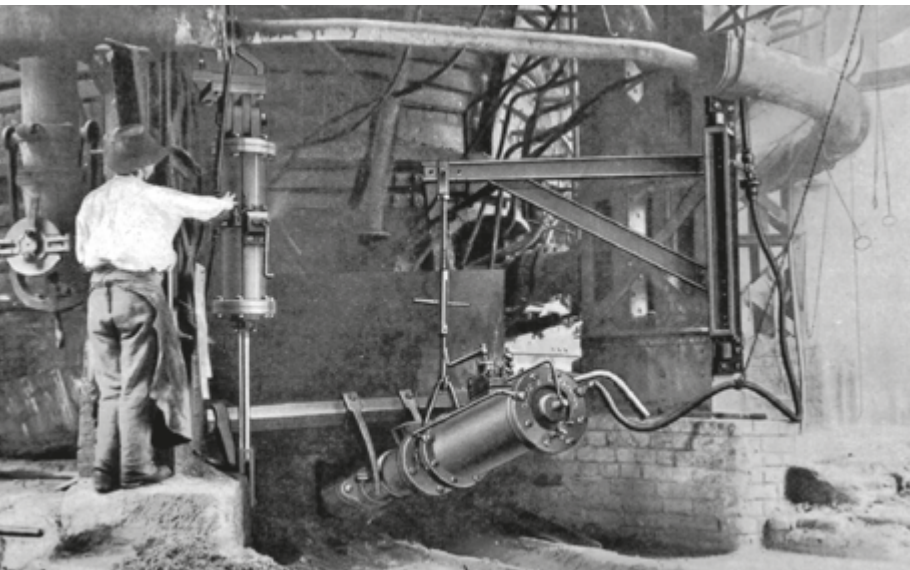


# TAPPING MEASURING TECHNOLOGY

## ABOUT

TMT is the fusion of two extraordinary companies which have merged their experience and expertise to ensure tapping solutions on a high-end level.

Many leading companies in the metal-producing industry trust our expertise, benefit from our ideas and rely on our team of highly qualified experts for their projects.



## BEGINNINGS

Around 1900, the first clay guns were manufactured at Dango & Dienenthal in Siegen.

In comparison to today's high end equipment, they could be considered rather simple, but demanding pneumatic constructions with a single cylinder, which made work around the taphole areas of blast furnaces easier and less dangerous.

Thereby, the furnace workers still had to operate in a dangerous area, but instead of plugging the taphole by hand, only had to fill the machine with clay and plug the tap hole by maneuvering the clay gun into an appropriate position.

Employing clay guns did not only improve working safety, but also enhanced the productivity of blast furnaces, because interrupting the air-flow became unnecessary.

## IMPROVEMENTS

In 1979, the first full reverse hammer was manufactured at Paul Wurth in Luxembourg. This taphole drill was operating based on a pneumatic hammer unit. It considerably improved the safety of taphole operators. Later around 1997, both TMT mother companies introduced fully hydraulic taphole drills and reverse hammer drills. Those are still today the state-of-the-art of tapping technology, as only they satisfy the high demands for performance, reliability and safety.

## ROAD TO ZERO EMISSION

The whole steel industry is facing major challenges with regards to CO2 neutrality by 2050. There is still a long way to go.

However, TMT with its own factory in Haiger is already contributing to this target.

Large areas of our factory roof top are equipped with a photovoltaic system. The generated energy is used to run our factory.

The cooperation with TMT enables our partners/customers to improve their carbon footprint.

## STILL STRIVE FOR MORE

Since the early beginnings TMT has constantly developed and improved their taphole machinery to suit customers needs and requirements for a highly efficient and safe taphole operation.

Are you ready to exceed?



# HOW WE EXCEED

**PERFORMANCE IS THE RESULT OF  
THE INTERACTION BETWEEN MACHINES,  
WEAR PARTS AND CONSUMABLES.**

As an Original Equipment Manufacturer of all these components, TMT understands the requirements best.

Only the use of original wear parts and the proper adjustment of machine settings and consumables ensure that performance-targets are met, costs are reduced and the operational safety is maximized.

# 30 YEARS OF EXPERIENCE

## KEEP INCREASING YOUR PROFIT

Based on 30+ years of experience the people of TMT know a lot about drilling and plugging of tap holes.

TMT helps you to choose the right components for an optimized process which will save cost and eventually result in an increase of profitability.



# RELIABLE AND PREPARED FOR ALL CASES

## DELIVERY IN SHORT TIME

At our new production facility located in Haiger / Germany, right in the centre of Europe, we keep our stock levels for all standard components and raw materials on high levels which enables us to serve our customers reliably and in a very reasonable time.

We are set up to handle emergency cases and ensure a dispatch within 24 hours from order of all standard consumables like drill bits and other standardised wear items.

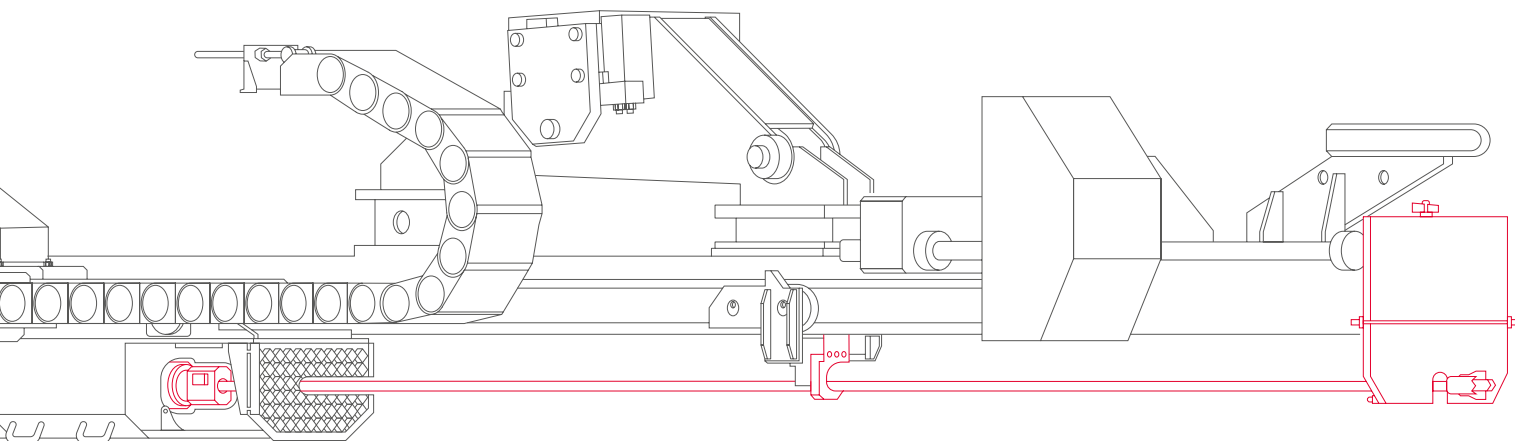
## WEAR PARTS AVAILABLE

Keeping the production running at a steady pace is an essential challenge.

Therefore we have stored up to 3,000 tons of material and more than 150,000 drill bits in our warehouse in Haiger, Germany, to ensure fast and reliable delivery.



# CONTENT



11 - 14

## ADAPTERS + UPGRADE-KITS

WEAR PARTS

17 - 18

## DRILL RODS + PERCUSSION RODS

CONSUMABLES

19 - 24

## DRILL BITS

CONSUMABLES

25 - 28

## FURTHER EQUIPMENT

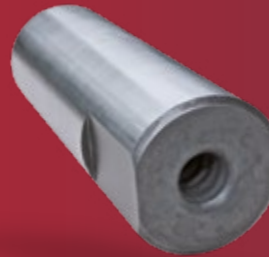
CONSUMABLES

# WEAR PARTS



**BAYONET  
CONNECTION**

WITHOUT SELF-CENTRING SYSTEM



**THREAD  
CONNECTION**



**KEYWAY  
CONNECTION**



**BAYONET  
CONNECTION**

WITH SELF-CENTRING SYSTEM



WITH

## KEYWAY CONNECTION



INDIVIDUAL PARTS:



### LEG SPRING

IDENT NO

300 35 27 / Ø 4  
300 36 89 / Ø 5



### LOCKING PIN

IDENT NO

260.126



### FLOW STOPPER

IDENT NO

300 56 70 / Ø 27  
300 56 71 / Ø 24



### KEY

IDENT NO

300 59 40 / 8,0  
300 59 41 / 7,1  
300 59 42 / 6,3



### CHECK VALVES

IDENT NO

300 37 20 / Ø 27  
300 37 19 / Ø 24

WITH STANDARD

## BAYONET CONNECTION



INDIVIDUAL PARTS:



### FLUSHING PIPE

IDENT NO

100 40 71 / Ø 24



### FLOW STOPPER

IDENT NO

300 56 70 / Ø 27  
300 56 71 / Ø 24



### CHECK VALVES

IDENT NO

300 37 20 / Ø 27  
300 37 19 / Ø 24



WITH SELF-CENTRING

# BAYONET CONNECTION



INDIVIDUAL PARTS:



## FLUSHING PIPE

IDENT NO

100 40 71 / Ø 24



## FLOW STOPPER

IDENT NO

300 56 70 / Ø 27  
300 56 71 / Ø 24

## CHECK VALVES

IDENT NO

300 37 20 / Ø 27  
300 37 19 / Ø 24

WITH

# THREAD CONNECTION



INDIVIDUAL PARTS:



## FLOW STOPPER

IDENT NO

300 56 70 / Ø 27  
300 56 71 / Ø 24

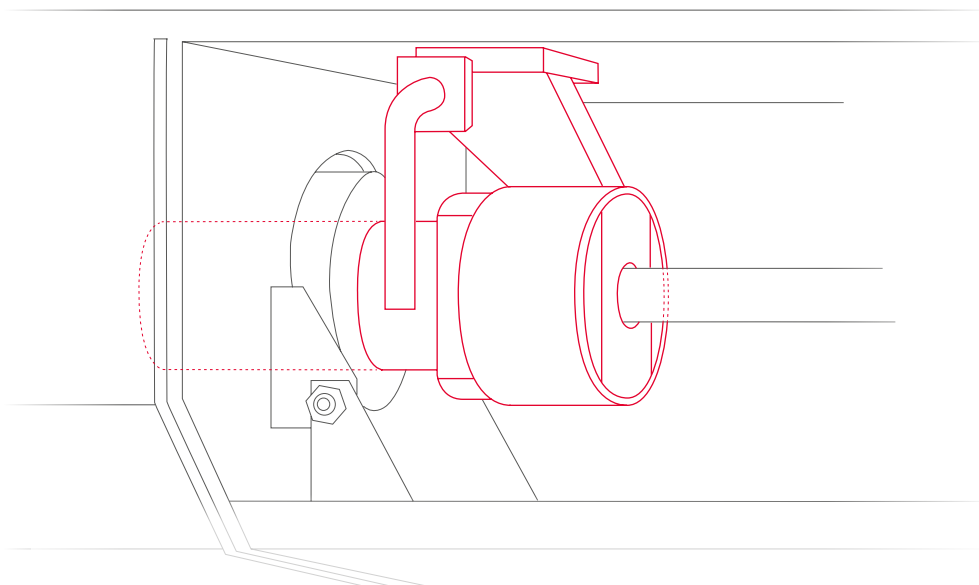
## CHECK VALVES

IDENT NO

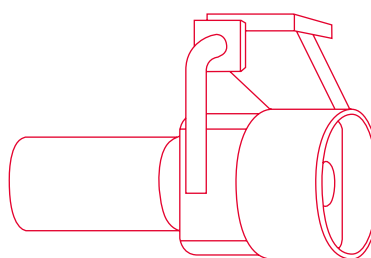
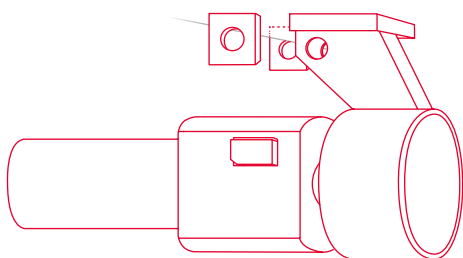
300 37 20 / Ø 27  
300 37 19 / Ø 24



# WEDGE SAFETY DEVICE



**IN USE** / ASSEMBLED



## APPLICATION

### SIMPLE LOCK

This type of Wedge Safety Device without additional security elements combines the usual simple wedge connection with safe handling and is the next step towards reducing potential sources of danger.

The use of this unit is checked individually due to the different types of drill hammers.

### EASY MOUNTING

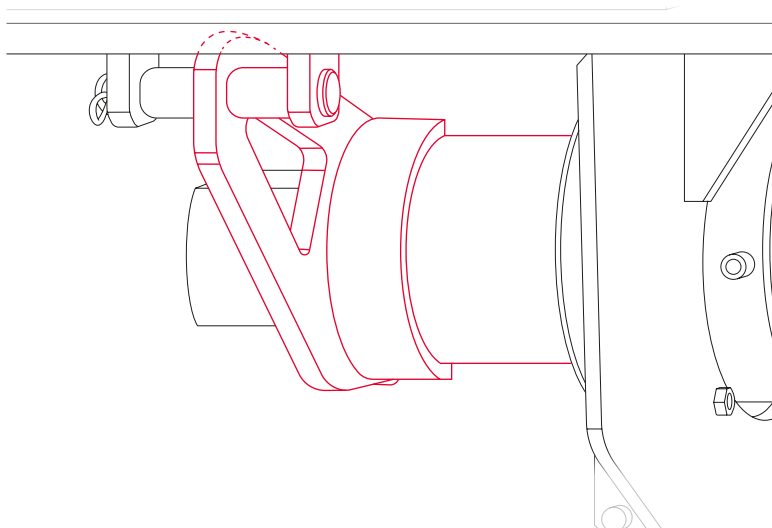
To secure the drill bar by means of a wedge, a safety device can be mounted on different types of drill hammers.

Due to the slidable design, the drill bar can be easily mounted as usual. After moving the safety device until it is locking, the position of the wedge is fixed and losing is impossible.

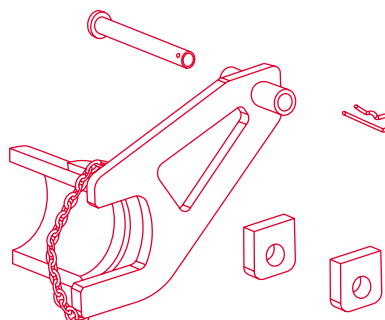
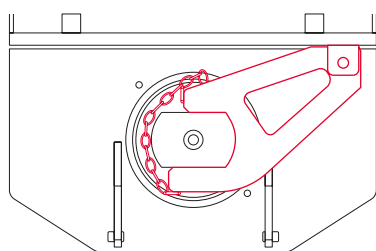


# ADAPTER RELEASE DEVICE

FOR THE BAYONET ADAPTER AND WEDGE ADAPTER



**IN USE** / ASSEMBLED



## APPLICATION

### SECURE ATTACHEMENT

In conjunction with the TMT adapters, the use of a release device is possible with various types of drill hammers. The holding device is securely attached to the hammer drill carriage and surrounds the key surface of the adapter.

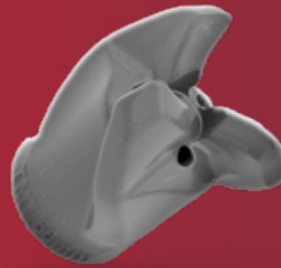
### SAFE EXCLUSION

Upon actuation of the rotary hammer in opposite directions to the thread direction, the adapter is released and can then be safely removed by installation personnel. The use of this device is checked individually due to the different types of drill hammers.

# CONSUM- ABLES



**DRILL RODS +  
PERCUSSION RODS**



**DRILL BITS**

WITHOUT CARBIDE



**DRILL BITS**

WITH CARBIDE



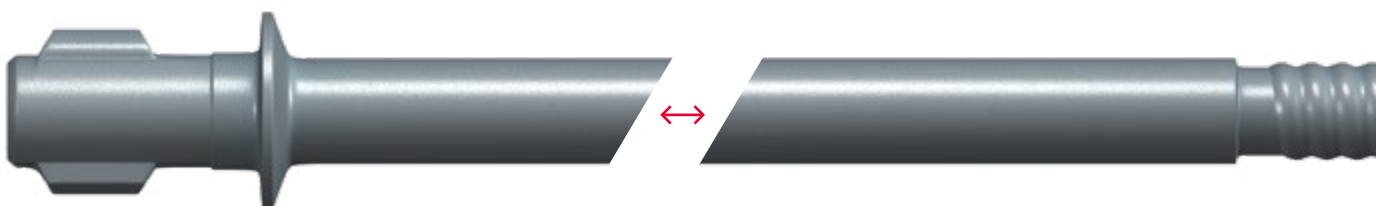
**WEAR PARTS**

FOR TAPHOLE DRILLS + CLAY GUNS



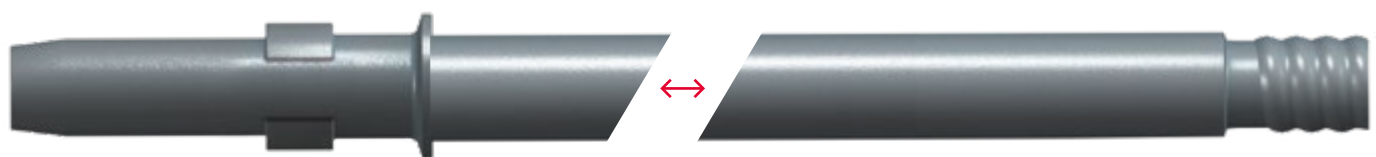
# DRILL RODS + PERCUSSION RODS

## DRILL RODS



### SELF-CENTRING BAYONET CONNECTION

Outside diameters (mm): 31.8 / 35 / 38  
Wall thickness (mm): 6.3 / 7.1 / 8



### NON-SELF-CENTRING BAYONET CONNECTION

Outside diameters (mm): 31.8 / 35 / 38  
Wall thickness (mm): 6.3 / 7.1 / 8



### KEYWAY CONNECTION

Outside diameters (mm): 31.8 / 35 / 38  
Wall thickness (mm): 6.3 / 7.1 / 8



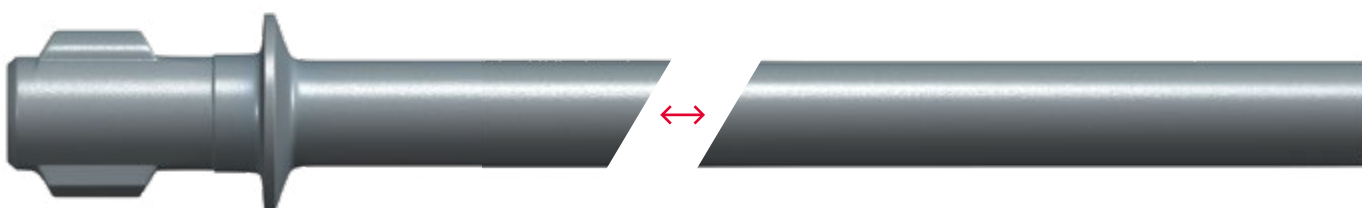
### THREAD CONNECTION

Outside diameters (mm): 31.8 / 35 / 38  
Wall thickness (mm): 6.3 / 7.1 / 8



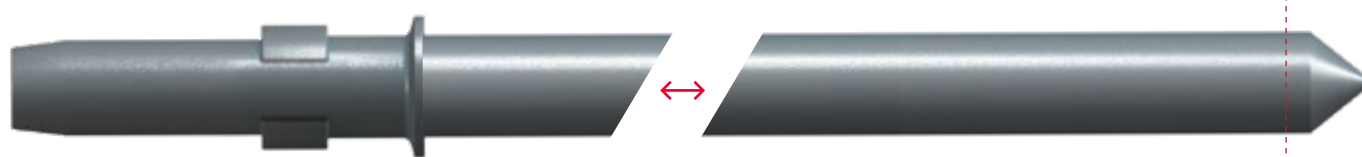
# DRILL RODS + PERCUSSION RODS

## PERCUSSION RODS



### SELF-CENTRING BAYONET CONNECTION

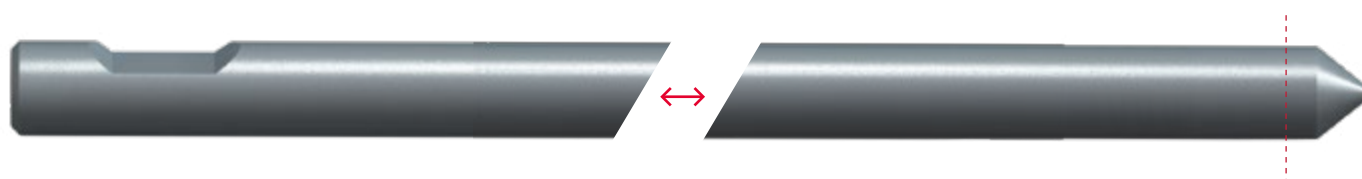
Diameters (mm):  
32 / 35 / 38 / 42 / 45 / 50



### NON-SELF-CENTRING BAYONET CONNECTION

With and without cone end

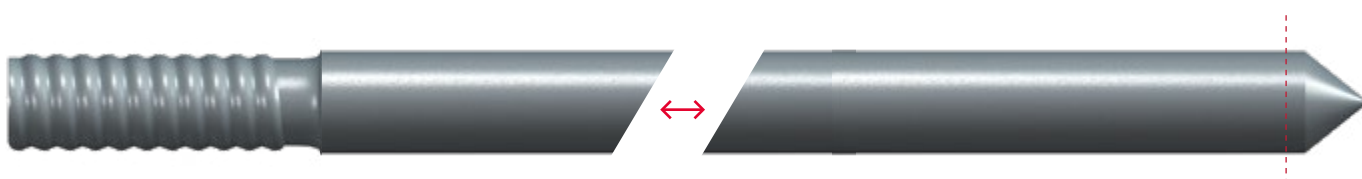
Diameters (mm):  
32 / 35 / 38 / 42 / 45 / 50



### KEYWAY CONNECTION

With and without cone end

Diameters (mm):  
32 / 35 / 38 / 42 / 45 / 50



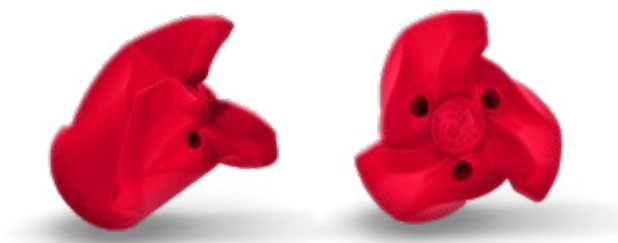
### THREAD CONNECTION

With and without cone end

Diameters (mm):  
32 / 35 / 38 / 42 / 45 / 50

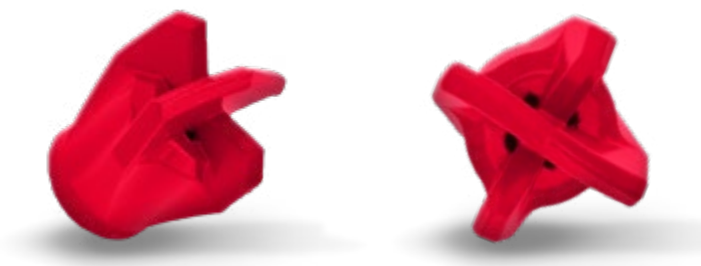


# WITHOUT CARBIDE



## RACER

| IDENT NO  | DESCRIPTION            | Ø DRILL BIT | THREAD    |
|-----------|------------------------|-------------|-----------|
| 300 32 00 | TMT - RC - 40 - R 32   | 40 mm       | R 32 left |
| 300 32 01 | TMT - RC - 42.5 - R 32 | 42.5 mm     | R 32 left |
| 300 32 02 | TMT - RC - 45 - R 32   | 45 mm       | R 32 left |
| 300 32 03 | TMT - RC - 47.5 - R 32 | 47.5 mm     | R 32 left |
| 300 32 04 | TMT - RC - 50 - R 32   | 50 mm       | R 32 left |
| 300 32 05 | TMT - RC - 52.5 - R 32 | 52.5 mm     | R 32 left |
| 300 32 06 | TMT - RC - 55 - R 32   | 55 mm       | R 32 left |
| 300 32 07 | TMT - RC - 57.5 - R 32 | 57.5 mm     | R 32 left |
| 300 32 08 | TMT - RC - 60 - R 32   | 60 mm       | R 32 left |
| 300 32 09 | TMT - RC - 62.5 - R 32 | 62.5 mm     | R 32 left |
| 300 32 10 | TMT - RC - 65 - R 32   | 65 mm       | R 32 left |
| 300 32 12 | TMT - RC - 70 - R 32   | 70 mm       | R 32 left |
| 300 32 14 | TMT - RC - 75 - R 32   | 75 mm       | R 32 left |

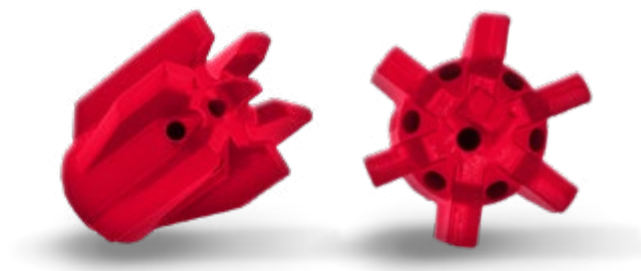


## CUTTER

| IDENT NO  | DESCRIPTION            | Ø DRILL BIT | THREAD    |
|-----------|------------------------|-------------|-----------|
| 300 33 00 | TMT - CT - 40 - R 32   | 40 mm       | R 32 left |
| 300 33 01 | TMT - CT - 42.5 - R 32 | 42.5 mm     | R 32 left |
| 300 33 02 | TMT - CT - 45 - R 32   | 45 mm       | R 32 left |
| 300 33 03 | TMT - CT - 47.5 - R 32 | 47.5 mm     | R 32 left |
| 300 33 04 | TMT - CT - 50 - R 32   | 50 mm       | R 32 left |
| 300 33 05 | TMT - CT - 52.5 - R 32 | 52.5 mm     | R 32 left |
| 300 33 06 | TMT - CT - 55 - R 32   | 55 mm       | R 32 left |
| 300 33 07 | TMT - CT - 57.5 - R 32 | 57.5 mm     | R 32 left |
| 300 33 08 | TMT - CT - 60 - R 32   | 60 mm       | R 32 left |
| 300 33 09 | TMT - CT - 62.5 - R 32 | 62.5 mm     | R 32 left |
| 300 33 10 | TMT - CT - 65 - R 32   | 65 mm       | R 32 left |
| 300 33 12 | TMT - CT - 70 - R 32   | 70 mm       | R 32 left |
| 300 33 14 | TMT - CT - 75 - R 32   | 75 mm       | R 32 left |

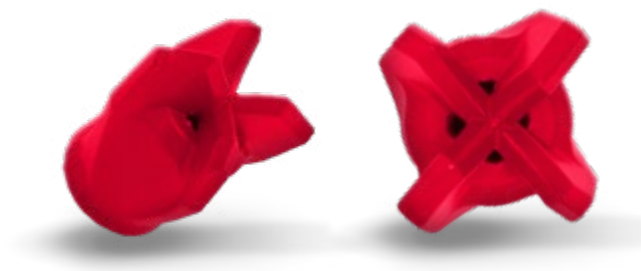


# WITHOUT CARBIDE



## MILLER

| IDENT NO | DESCRIPTION            | Ø DRILL BIT | THREAD    |
|----------|------------------------|-------------|-----------|
| 3003800  | TMT - ML - 40 - R 32   | 40 mm       | R 32 left |
| 3003801  | TMT - ML - 42.5 - R 32 | 42.5 mm     | R 32 left |
| 3003802  | TMT - ML - 45 - R 32   | 45 mm       | R 32 left |
| 3003803  | TMT - ML - 47.5 - R 32 | 47.5 mm     | R 32 left |
| 3003804  | TMT - ML - 50 - R 32   | 50 mm       | R 32 left |
| 3003805  | TMT - ML - 52.5 - R 32 | 52.5 mm     | R 32 left |
| 3003806  | TMT - ML - 55 - R 32   | 55 mm       | R 32 left |
| 3003807  | TMT - ML - 57.5 - R 32 | 57.5 mm     | R 32 left |
| 3003808  | TMT - ML - 60 - R 32   | 60 mm       | R 32 left |
| 3003809  | TMT - ML - 62.5 - R 32 | 62.5 mm     | R 32 left |
| 3003810  | TMT - ML - 65 - R 32   | 65 mm       | R 32 left |
| 3003812  | TMT - ML - 70 - R 32   | 70 mm       | R 32 left |
| 3003814  | TMT - ML - 75 - R 32   | 75 mm       | R 32 left |
| 3003816  | TMT - ML - 80 - R 32   | 80 mm       | R 32 left |

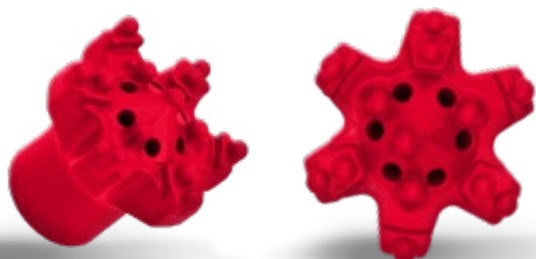


## SLITTER

| IDENT NO | DESCRIPTION            | Ø DRILL BIT | THREAD    |
|----------|------------------------|-------------|-----------|
| 3003460  | TMT - SL - 40 - R 32   | 40 mm       | R 32 left |
| 3003461  | TMT - SL - 42.5 - R 32 | 42.5 mm     | R 32 left |
| 3003462  | TMT - SL - 45 - R 32   | 45 mm       | R 32 left |
| 3003463  | TMT - SL - 47.5 - R 32 | 47.5 mm     | R 32 left |
| 3003464  | TMT - SL - 50 - R 32   | 50 mm       | R 32 left |
| 3003465  | TMT - SL - 52.5 - R 32 | 52.5 mm     | R 32 left |
| 3003466  | TMT - SL - 55 - R 32   | 55 mm       | R 32 left |
| 3003467  | TMT - SL - 57.5 - R 32 | 57.5 mm     | R 32 left |
| 3003468  | TMT - SL - 60 - R 32   | 60 mm       | R 32 left |
| 3003469  | TMT - SL - 62.5 - R 32 | 62.5 mm     | R 32 left |
| 3003470  | TMT - SL - 65 - R 32   | 65 mm       | R 32 left |
| 3003472  | TMT - SL - 70 - R 32   | 70 mm       | R 32 left |
| 3003474  | TMT - SL - 75 - R 32   | 75 mm       | R 32 left |



## WITHOUT CARBIDE



### SLUGGER

| IDENT NO | DESCRIPTION     | Ø DRILL BIT | THREAD    |
|----------|-----------------|-------------|-----------|
| 3003150  | TMT-SG-80-R 32  | 80 mm       | R 32 left |
| 3003151  | TMT-SG-90-R 32  | 90 mm       | R 32 left |
| 3003152  | TMT-SG-100-R 32 | 100 mm      | R 32 left |
| 3003153  | TMT-SG-110-R 32 | 110 mm      | R 32 left |
| 3003154  | TMT-SG-120-R 32 | 120 mm      | R 32 left |

## WITH CARBIDE



### TURNER

| IDENT NO | DESCRIPTION         | Ø DRILL BIT | THREAD    |
|----------|---------------------|-------------|-----------|
| 3003600  | TMT-TN-HM-40-R 32   | 40 mm       | R 32 left |
| 3003601  | TMT-TN-HM-42,5-R 32 | 42,5 mm     | R 32 left |
| 3003602  | TMT-TN-HM-45-R 32   | 45 mm       | R 32 left |
| 3003603  | TMT-TN-HM-47,5-R 32 | 47,5 mm     | R 32 left |
| 3003604  | TMT-TN-HM-50-R 32   | 50 mm       | R 32 left |
| 3003605  | TMT-TN-HM-52,5-R 32 | 52,5 mm     | R 32 left |
| 3003606  | TMT-TN-HM-55-R 32   | 55 mm       | R 32 left |
| 3003607  | TMT-TN-HM-57,5-R 32 | 57,5 mm     | R 32 left |
| 3003608  | TMT-TN-HM-60-R 32   | 60 mm       | R 32 left |
| 3003610  | TMT-TN-HM-65-R 32   | 65 mm       | R 32 left |
| 3003612  | TMT-TN-HM-70-R 32   | 70 mm       | R 32 left |
| 3003614  | TMT-TN-HM-75-R 32   | 75 mm       | R 32 left |
| 3003616  | TMT-TN-HM-80-R 32   | 80 mm       | R 32 left |

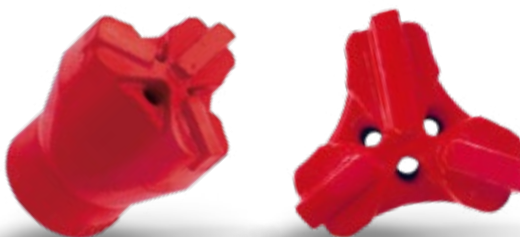


# WITH CARBIDE



## SCRAPER

| IDENT NO | DESCRIPTION         | Ø DRILL BIT | THREAD    |
|----------|---------------------|-------------|-----------|
| 3005962  | TMT-SC-HM-45-R 32   | 45 mm       | R 32 left |
| 3005964  | TMT-SC-HM-50-R 32   | 50 mm       | R 32 left |
| 3005965  | TMT-SC-HM-52.5-R 32 | 52.5 mm     | R 32 left |
| 3005966  | TMT-SC-HM-55-R 32   | 55 mm       | R 32 left |
| 3005968  | TMT-SC-HM-60-R 32   | 60 mm       | R 32 left |
| 3005970  | TMT-SC-HM-65-R 32   | 65 mm       | R 32 left |

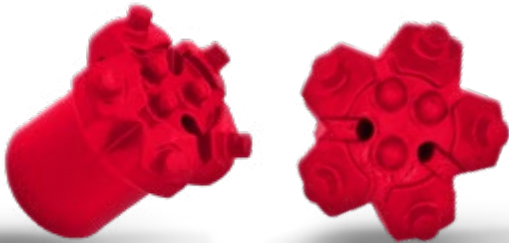


## GRAVER

| IDENT NO | DESCRIPTION         | Ø DRILL BIT | THREAD    |
|----------|---------------------|-------------|-----------|
| 3003400  | TMT-GV-HM-40-R 32   | 40 mm       | R 32 left |
| 3003401  | TMT-GV-HM-42.5-R 32 | 42.5 mm     | R 32 left |
| 3003402  | TMT-GV-HM-45-R 32   | 45 mm       | R 32 left |
| 3003403  | TMT-GV-HM-47.5-R 32 | 47.5 mm     | R 32 left |
| 3003404  | TMT-GV-HM-50-R 32   | 50 mm       | R 32 left |
| 3003405  | TMT-GV-HM-52.5-R 32 | 52.5 mm     | R 32 left |
| 3003406  | TMT-GV-HM-55-R 32   | 55 mm       | R 32 left |
| 3003407  | TMT-GV-HM-57.5-R 32 | 57.5 mm     | R 32 left |
| 3003408  | TMT-GV-HM-60-R 32   | 60 mm       | R 32 left |
| 3003409  | TMT-GV-HM-62.5-R 32 | 62.5 mm     | R 32 left |
| 3003410  | TMT-GV-HM-65-R 32   | 65 mm       | R 32 left |
| 3003412  | TMT-GV-HM-67.5-R 32 | 67.5 mm     | R 32 left |
| 3003414  | TMT-GV-HM-70-R 32   | 100 mm      | R 32 left |
| 3003416  | TMT-GV-HM-75-R 32   | 110 mm      | R 32 left |
|          | TMT-GV-HM-80-R 32   | 120 mm      | R 32 left |



# WITH CARBIDE



## SLUGGER

| IDENT NO | DESCRIPTION         | Ø DRILL BIT | THREAD    |
|----------|---------------------|-------------|-----------|
| 3003643  | TMT-SG-HM-45-R 32   | 45 mm       | R 32 left |
| 3003644  | TMT-SG-HM-50-R 32   | 50 mm       | R 32 left |
| 3003658  | TMT-SG-HM-52.5-R 32 | 52.5 mm     | R 32 left |
| 3003645  | TMT-SG-HM-55-R 32   | 55 mm       | R 32 left |
| 3003659  | TMT-SG-HM-57.5-R 32 | 57.5 mm     | R 32 left |
| 3003646  | TMT-SG-HM-60-R 32   | 60 mm       | R 32 left |
| 3003660  | TMT-SG-HM-62.5-R 32 | 62.5 mm     | R 32 left |
| 3003647  | TMT-SG-HM-65-R 32   | 65 mm       | R 32 left |
| 3003648  | TMT-SG-HM-70-R 32   | 70 mm       | R 32 left |
| 3003649  | TMT-SG-HM-75-R 32   | 75 mm       | R 32 left |
| 3003650  | TMT-SG-HM-80-R 32   | 80 mm       | R 32 left |
| 3003651  | TMT-SG-HM-90-R 32   | 90 mm       | R 32 left |
| 3003652  | TMT-SG-HM-100-R 32  | 100 mm      | R 32 left |
| 3003653  | TMT-SG-HM-110-R 32  | 110 mm      | R 32 left |
| 3003654  | TMT-SG-HM-120-R 32  | 120 mm      | R 32 left |

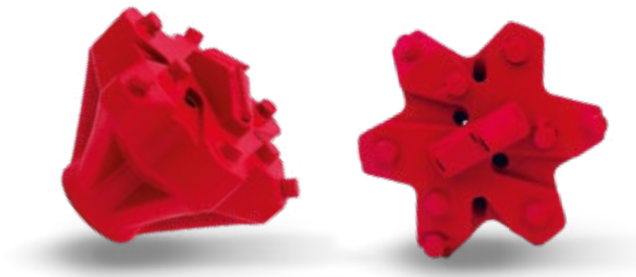


## TAPHOLE REAMER

| IDENT NO | DESCRIPTION     | Ø DRILL BIT | THREAD    |
|----------|-----------------|-------------|-----------|
| 3005982  | TMT-TR-210-R 32 | 210 mm      | R 32 left |
| 3005983  | TMT-TR-245-R 32 | 245 mm      | R 32 left |
| 3005984  | TMT-TR-260-R 32 | 260 mm      | R 32 left |
| 3005985  | TMT-TR-300-R 32 | 300 mm      | R 32 left |



# WITH CARBIDE



## PUNCHER

| IDENT NO  | DESCRIPTION                 | Ø DRILL BIT | THREAD    |
|-----------|-----------------------------|-------------|-----------|
| 300 37 90 | TMT - PC - HM - 80 - R 32   | 80 mm       | R 32 left |
| 300 37 91 | TMT - PC - HM - 90 - R 32   | 90 mm       | R 32 left |
| 300 37 92 | TMT - PC - HM - 100 - R 32  | 100 mm      | R 32 left |
| 300 37 93 | TMT - PC - HM - 110 - R 32  | 110 mm      | R 32 left |
| 300 37 94 | TMT - PC - HMC - 120 - R 32 | 120 mm      | R 32 left |
| 300 37 95 | TMT - PC - HM - 125 - R 32  | 125 mm      | R 32 left |

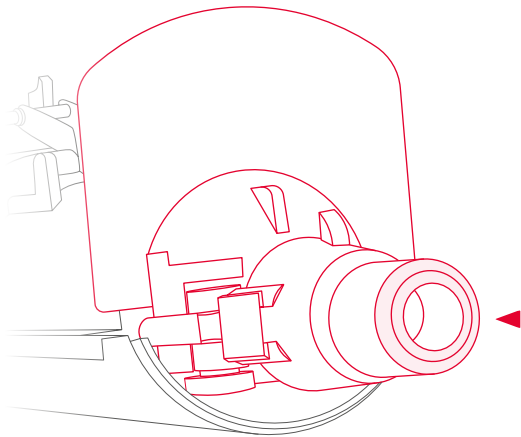


## STARTER BIT

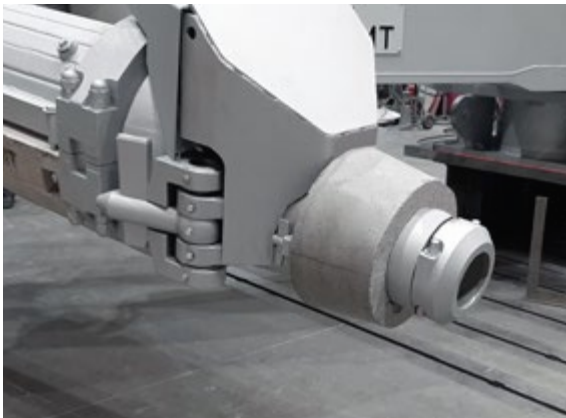
| IDENT NO  | DESCRIPTION               | Ø DRILL BIT | THREAD |
|-----------|---------------------------|-------------|--------|
| 300 59 92 | TMT - ST - HM - 80 - R 32 | 80 mm       | R 32   |
| 300 59 93 | TMT - ST - HM - 80 - R 38 | 80 mm       | R 38   |

# NOZZLE PROTECTION

FOR TAPHOLE DRILLS + CLAY GUNS



**IN USE** / ASSEMBLED



## USAGE

In order to protect components of the clay gun and taphole drill from iron projections and heat radiation and considerably extend their life time, TMT offers to upgrade your equipment with protections specifically designed and made of special refractory concrete.

# PROTECTIVE SHIELD

FOR TAPHOLE DRILLS + CLAY GUNS



**IN USE** / ASSEMBLED



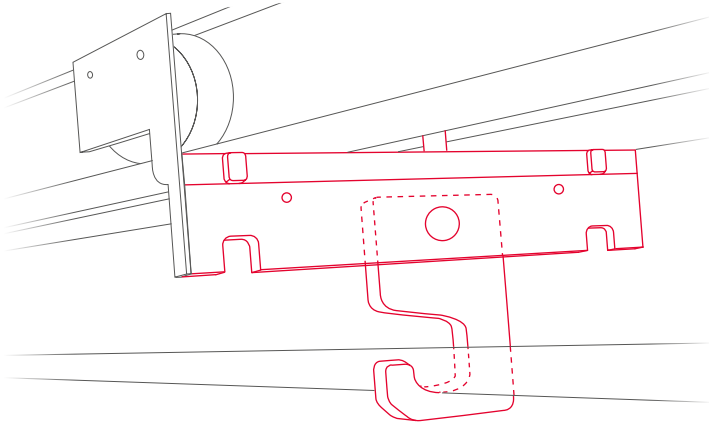
## USAGE

By tapping into the blast furnace hot fluid metal spatters out and sparks are spraying. To protect humans and sensitive parts of the technical equipment, TMT machines have pre-installed protective shields.

The latest design of protection shields makes use of special refractories which increase the lifetime of these parts and help reducing the maintenance costs.

# CENTRING DEVICE

FOR TAPHOLE DRILLS + CLAY GUNS



**IN USE** / ASSEMBLED



## USAGE

The centring device prevents excessive bending of the bar.

Using original parts helps the operators to drill a straight taphole channel and protect the taphole.

# CUSTOMIZED VERSIONS

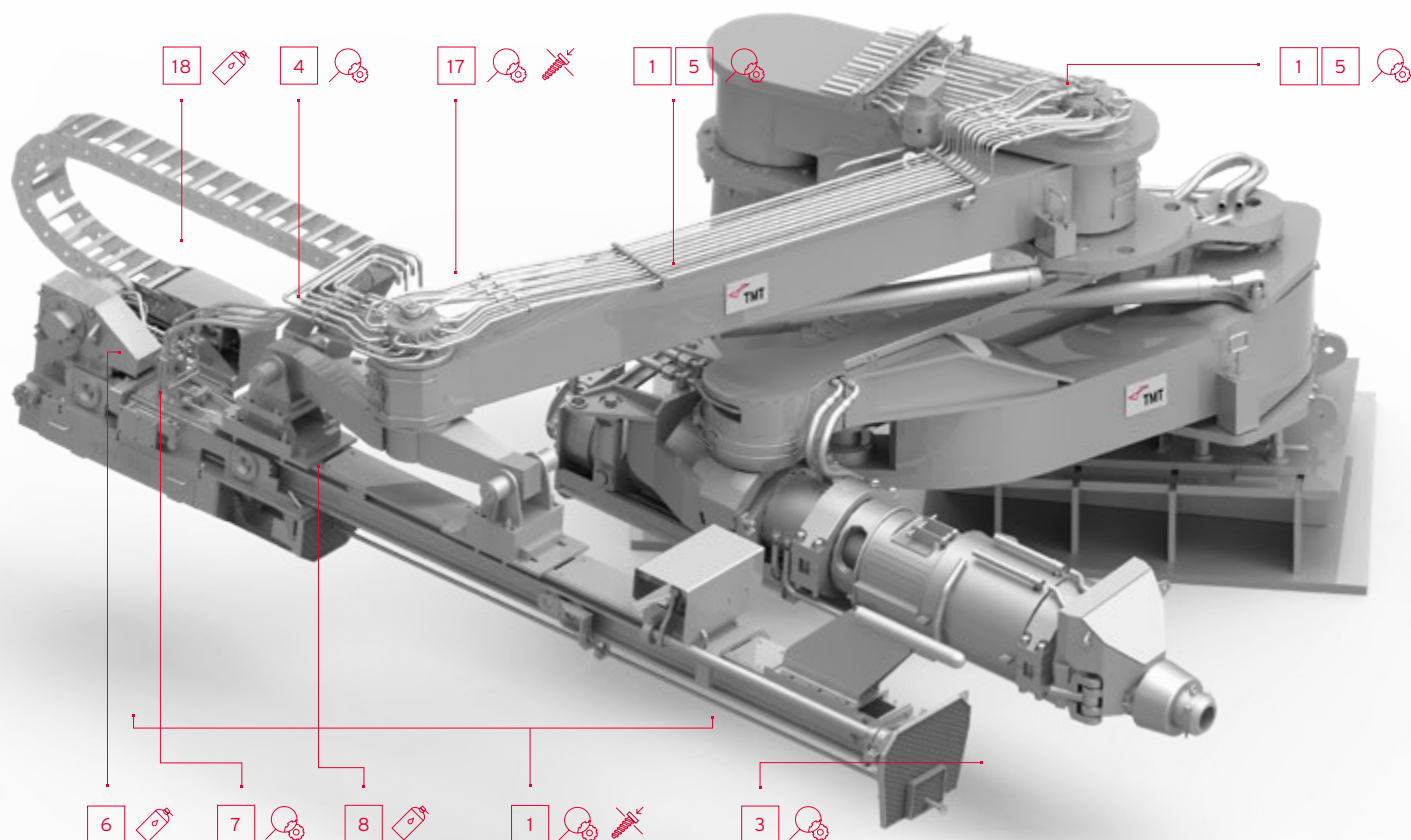
Customized versions and designs for your requirements are available as well. Let's get in touch.

## CONTACT

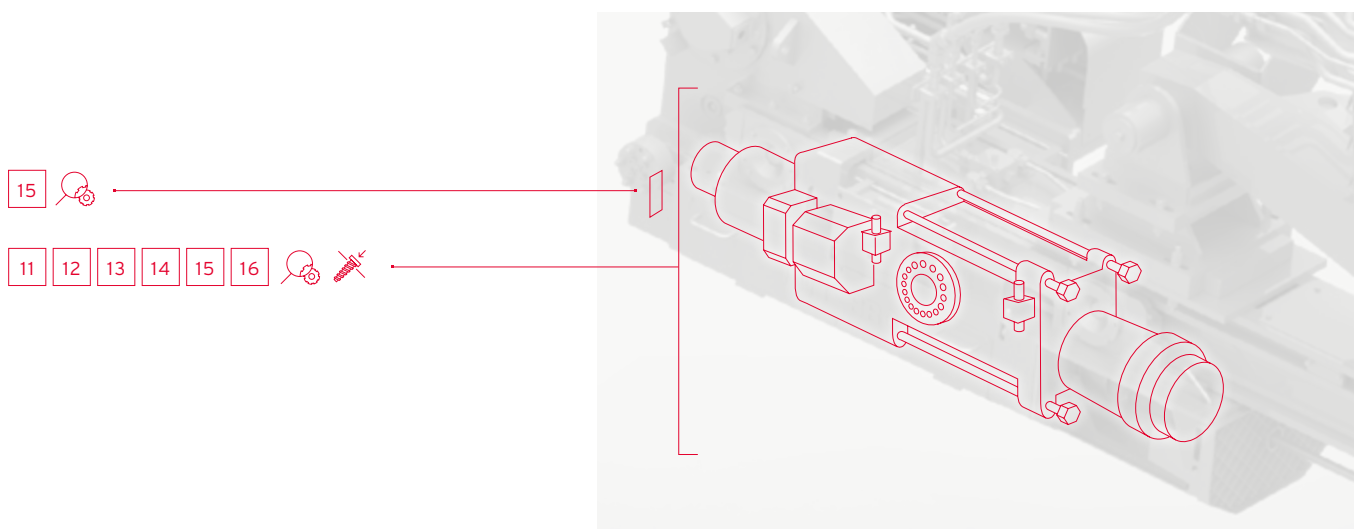
**TMT - Tapping Measuring Technology GmbH**  
T +49 271 4014-0 | [contact@TMT.com](mailto:contact@TMT.com)

**TMT - Tapping Measuring Technology S.à r.l.**  
T +352 261920-0 | F +352 261920-2779 | [contact@TMT.com](mailto:contact@TMT.com)

# INSPECTION + MAINTENANCE



## DETAIL



# INSTRUCTIONS

| POS. | CHECK   | INTERVENTION  |   | TASK  | INFORMATION   |
|------|---------|---|---|---|---|
| 1    | Daily   | Machine and working area  |    | Visual inspection of the machine for: defects, damages, loosened connections, leakages, etc.<br><br>Checking of the signal lamps function | Repair any defect immediately   |
| 2    | Daily   | Hydraulic system  |       | Check oil level.<br>Check oil temperature.<br>Check dirt indicator of filter elements   | Refill oil if necessary. Level must be between MIN and MAX.<br>Replace Filter if it is dirty. |
| 3    | Daily   | Protective plate  |    | Visual inspection.<br>Check for complete filling with refractory  | Repair if necessary   |
| 4    | Daily   | Adapter   |    | Visual Inspection.  | Replace Adapter if it is broken   |
| 5    | Weekly  | Pneumatic device<br>Hydraulic device<br>Electric device                     |    | Visual Inspection. Check hydraulic pipes, hoses and screwed connections for leakage and damages<br><br>Check electric motor for dirt      | Repair any defects immediately  |
| 6    | Weekly  | Rollerchain   |    | Lubricate with grease spray.<br>Check roller chain tension.   | If too much slack, restretch  |
| 7    | Weekly  | Roller conveyor   |    | Visual inspection.  | Clean   |
| 8    | Weekly  | Wheels  |    | Lubricate with grease spray or grease gun.  | Repair if necessary   |
| 9    | Weekly  | Oiler   |    | Check oil level.<br>Check oil temperature.<br>Check dirt indicator of filter elements.  | Refill oil if necessary; Level must be between MIN and MAX.<br>Replace Filter if it is dirty. |
| 10   | Weekly  | Central lubrication system  |   | Visual inspection.  | Refill grease if necessary.<br>Repair if necessary.   |
| 11   | Weekly  | Tightness of hydraulic hoses and screw connections                          |   | Visual inspection.  | Repair if necessary.  |
| 12   | Weekly  | Expansion screw connection to interface: rotator, gearbox and hammer, slide |   | Visual inspection.  | Repair if necessary.  |
| 13   | Weekly  | Impact piston striking surface on the drill adapter                         |   | Visual inspection.  | Repair if necessary   |
| 14   | Weekly  | High and Low pressure accumulator   |   | Visual inspection.<br>Pressure test.  | Repair if necessary.<br>Correct pressure if necessary.  |
| 15   | Weekly  | Flushing tube seal, flushing pipe   |   | Visual inspection.  | Repair if necessary<br>New set of seals if necessary.   |
| 16   | Weekly  | Hammer lubrication  |   | Visual inspection.  | Repair if necessary.  |
| 17   | Monthly | Suspension  |   | Visual inspection.<br>Check all screws on mast for tight fit  | Repair if necessary.  |
| 18   | Monthly | Cable track chain   |    | Lubrication with grease spray   | Repair if necessary   |

---

**TMT - Tapping Measuring Technology GmbH**

Hagener Str. 103 | D-57072 Siegen | T +49 271 4014-0 | [contact@TMT.com](mailto:contact@TMT.com)  
Managing Directors: Stefan Buch, Patrick Leyser | Amtsgericht Siegen HRB 5741

**TMT - Tapping Measuring Technology S.à r.l.**

32, rue d'Alsace | L-1122 Luxembourg | P.O. Box 2233 | L-1022 Luxembourg  
T +352 261920-0 | F +352 261920-2779 | [contact@TMT.com](mailto:contact@TMT.com)  
Managing Directors: Patrick Leyser, Stefan Buch | R.-No. RCS B 91897

**TMT.com**