

# MTS 3000

## *Technical Specifications Catalog*



## TECHNICAL SPECIFICATIONS

|                       |                          |    |
|-----------------------|--------------------------|----|
| Manufacturer          | MTS, Germany             |    |
| Type                  | Mixed Ground             |    |
| Model                 | MTS 3000 TBM Slurry 30 C |    |
| Year of Manufacture   | 2010                     |    |
| Excavation Mode       | Slurry Type              |    |
| Outside Diameter (OD) | 3090                     | mm |
| Length                | 75                       | m  |

## MAIN DRIVE

|                    |                  |    |
|--------------------|------------------|----|
| Type of Main Drive | Hydraulic Driven |    |
| Motor              | 1                |    |
| Installed Power    | 300              | kW |
| Constant Torque    | 780              | kN |

## CUTTER HEAD

|                                     |                                           |     |
|-------------------------------------|-------------------------------------------|-----|
| Cutter Head Revolution              | 0 - 11                                    | rpm |
| Turn Direction                      | Left / Right                              |     |
| Cutting Tools Type for Mixed Ground | Cone Crusher, Disk Cutter, Knife, Scraper |     |
| Excavation Diameter                 | 3140                                      | mm  |
| Maximum Capacity Per Tool           | 150                                       | kN  |

## THRUST SYSTEM

|                                     |                 |      |
|-------------------------------------|-----------------|------|
| No. of Main Cylinder                | 12              | Nos. |
| Maximum Thrust of Main Cylinder     | 10.200 kN @ 340 | Bar  |
| No. of Steering Cylinder            | 3               | Nos. |
| Maximum Thrust of Steering Cylinder | 7.238 kN @ 300  | Bar  |

## SHIELD

|                                       |      |    |
|---------------------------------------|------|----|
| Outer Diameter of Front Shield        | 3090 | mm |
| Outer Diameter of Outer Middle Shield | 3090 | mm |
| Outer Diameter of Tail Shield         | 3080 | mm |

## MUCK TRANSPORTATION

|                                   |                                            |    |
|-----------------------------------|--------------------------------------------|----|
| Slurry Pump                       | Warman Gravel Pump                         |    |
| Slurry Line                       | 8"                                         |    |
| Type                              | Electric Drive, Variable Speed, Reversible |    |
| Electrical Power of Muck Conveyor | 160                                        | kW |

## ELECTRICAL SYSTEM

|                       |       |     |
|-----------------------|-------|-----|
| No. of Transformers   | 1     | No. |
| Total Installed power | 650   | kW  |
| Primary Voltage       | 20000 | V   |

## PREFABRICATED CONCRETE SEGMENTS

|                         |            |    |
|-------------------------|------------|----|
| <b>Segment Type</b>     | Tetragonal |    |
| <b>Outside Diameter</b> | 2840       | mm |
| <b>Inside Diameter</b>  | 2440       | mm |
| <b>Length</b>           | 1000       | mm |
| <b>Configuration</b>    | 5 + Key    |    |

|                                |          |                |
|--------------------------------|----------|----------------|
| <b>Ring Erection Time</b>      | 15       | mins           |
| <b>Boring Stroke</b>           | 1        | m              |
| <b>Maximum Advance Rates</b>   | 1        | Meter Per Hour |
| <b>Gas Detection System</b>    | Included |                |
| <b>Guidance System</b>         | Included |                |
| <b>Compressed Air System</b>   | Included |                |
| <b>Ventilation System</b>      | Included |                |
| <b>Industrial Water System</b> | Included |                |
| <b>Dewatering System</b>       | Included |                |
| <b>Grout Injection Pump</b>    | Included |                |