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## Tender Description

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### **Tracked Gate (TG) M50**

Clear Width of Opening (CWO) up to 7 m, impact kinetic energy 1699 kJ (ASTM F 2656-07 version) or 1852 kJ (PAS 68 version)

Sliding gate TG M50 on ground track,  
power-operated, single leaf, right-angled frame.

#### **DIMENSIONS:**

Clear Width of Opening (CWO):  
from 3000 - 7000 mm in 1000 mm increments  
Clear Width between posts: CWO + 200 mm  
Frame Width CWO + 2308 mm  
Gate Height: 2000 mm, 2500 mm or 3000 mm  
(incl. 100 mm ground clearance)  
Foundation Depth: 400 mm (shallow foundation)  
Foundation Top Edge: 100 mm below finished floor level

#### **IMPACT LOAD/KINETIC ENERGY:**

1699 kJ (15,000 lbs @ 50 mph) or 1852 kJ (7.5 t @ 80 km/h)  
Certified according to ASTM F 2656-07 M50/P1 or  
PAS 68:2010 V/7500[N3]/80/90:0.0/4.3 (tested with 7 m CWO)

#### **OPENING DIRECTION VIEWED FROM THE OUTSIDE:**

To the right or to the left

#### **GATE LEAF:**

Top gate leaf panel with side rails and top rail made of square hollow section SHS 100 and base plate FMS 100x15 to bolt onto bottom impact beam 955 mm high consisting of 2 nos.  
impact beams HEB 340 with sheet metal covering.

#### **GATE INFILL:**

Bar infill made of square hollow section SHS 30 with a clear distance of max. 120 mm. Makrolon panel as anti-reach-through protection at front of gate leaf.

#### **ANTI-CLIMBING DEVICE:**

none

Optional: Serrated top rail

Optional: Steel spikes D18, 100 mm long, centre distance 80 mm

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### **GATE PORTALS:**

1 no. double receiving/impact post made of square hollow section profile SHS 260 complete with inner beam HEB 240, 1200 long and cross beam HEB 280 to concrete in  
1 no. double guiding/impact post made of square hollow section profile SHS 260 complete with inner beam HEB 240, 1200 long and cross beam HEB 280 to concrete in

### **ROLLERS AND GROUND TRACK:**

2 nos. track rollers built into bottom beam.  
Ground track S 10 to bolt onto top edge of foundation, top of rail 20 mm above finished floor level

### **OPERATING SPEED:**

Normal operation: up to 0.4 m/s  
Emergency Fast Operation (EFO): up to 0.8 m/s (available for non-European countries only) (actual EFO speed depending on gate dimensions and weight)

### **DRIVE UNIT:**

Drive unit system consisting of gearbox motor, rocker, base plate installed in drive unit column  
Motor: 1.5 kW, 400 V, 50 Hz (three-phase)  
Proximity limit switches for final gate positions.

### **EMERGENCY OPERATION DURING POWER FAILURE:**

Manually after disengagement of motor by clutch lever

### **CONTROL BOARD:**

Control board WE-Tronic II complete with frequency converter in control box HxWxD= 400x600x200 mm, IP66, installed in drive unit column, prepared for automatic functions, control voltage 24 V.

### **CONTROLLERS:**

1 no. key switch "Open-Stop-Close" in inner and outer guiding post respectively

### **SAFETY DEVICES:**

4 no. sets of light beam systems consisting of receiver and transmitter unit at passenger car and HGV height on the inside and outside respectively

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### **ACCIDENT PROTECTION EQUIPMENT:**

Safety edges to stop and reverse the gate by approx. 10 cm in opposite direction on contact.

- 1 no. on front stile of top gate leaf panel
- 1 no. on front of bottom impact beam
- 1 no. on rear side stile of top gate leaf panel
- 1 no. on rear of bottom impact beam
- 8 nos. on guiding portal
- 4 nos. on receiving portal

### **ACCESS CONTROL EQUIPMENT/FUNCTIONS (OPTIONAL):**

Rotating beacon, detector for induction loops, remote control complete with rod antenna and hand-held transmitter(s), push button, key switch for partial opening, weekly or yearly timer, fire brigade contact, traffic light(s), etc.

### **STATUS INDICATION (OPTIONAL):**

Potential-free contacts "Gate open/closed"

### **FINISH:**

Gate leaf and portals: Standard RAL colour 6005, 7016, 7030 7035 or 9010

Optional: all other RAL colours

Drive unit cover: RAL 7035

Drive unit column: in RAL colour of gate

Optional: all other RAL colours

### **WEIGHT:**

Approx. 4710 – 6950 kg (depending on CWO and gate height)

### **FOUNDATION:**

Reinforced foundation according to manufacturer's instructions

### **MANUFACTURER:**

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