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## Tender Description

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### **Tyre Killer**

Blocking width up to 6.0 m

#### **SPIKE AXLE:**

Axle with welded on steel spikes and slot sealing bars at 200 mm centre distance.

Blocking width: from 2000 - 6000 mm in predefined increments

Blocking height: 450 mm above road way top edge

#### **UNDERGROUND HOUSING ASSEMBLY UNIT:**

Length: Blocking width + 200 mm

Width: 1150 mm incl. transport eyes

Depth: 550 mm

#### **WHEEL LOAD:**

100 kN wheel load according to SLW60 - DIN 1072

#### **WEIGHT:**

Depending on blocking width approx. 1080 – 3040 kg (tyre killer),  
approx. 280 kg (drive cabinet)

#### **NORMAL OPERATING TIMES:**

Raising of blocking element approx. 2 sec

Lowering of blocking element approx. 2 sec

#### **DRIVE CABINET:**

Drive cabinet WxHxD=1400x1200x400 incl. 200 mm high base for indoor installation complete with corrosion protected hydraulic aggregate, PLC Easy in control box, heating 500 W, thermostat, air grille, air grille with fan, lighting 18 W and integrated power socket 230 V

Optional: outdoor version incl. hygrostat, rain cover and outdoor coating

#### **LOCKING MECHANISM FOR DRIVE CABINET:**

3-point locking system with double-bit insert

Optional: Folding lever handle with profile cylinder

#### **HYDRAULIC DRIVE UNIT:**

Hydraulic aggregate with motor 4.0 kW, pump, magnetic valves, 1 no. high-pressure hydraulic cylinder (for <= 3600 mm blocking width), 2 nos. high-pressure hydraulic cylinders (for > 3600 mm blocking width) and hand pump

Length of hydraulic hoses: max. 25 m

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### **EMERGENCY OPERATION (EO) (Optional):**

Raising time approx. 2 sec, (overriding of all safety functions)

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

Manual raising via hand pump

Manual lowering via ball cock valve

Optional: Accumulator and battery pack for three remote operations (RO3) during power failure

### **HYDRAULIC FLUID:**

Biodegradable hydraulic fluid Plantohyd 22 S, non-hazardous to water or mineral oil HLP 22

### **CONTROL:**

PLC type Easy in control box, installed in drive cabinet, control voltage 24 V

Optional: PLC type Easy in separate control box for wall mounting inside a building

Optional: socket SCHUKO type F, plug CEE 7/3 mounted on a top-hat rail inside the control box

### **CONTROL DEVICES (OPTIONAL):**

- push button "raise/stop/lower" or key switch "raise/stop/lower"
- key switch "fire brigade"
- anti-terror push button (for emergency operation - EO)
- light beam system
- remote control receiver
- antenna for remote control receiver
- hand-held transmitter
- additional push button or key switch
- double loop detector
- key switch "automatic on/off"
- traffic light red/green, D200
- door contact switch for drive cabinet

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

Potential-free contacts "Tyre Killer lowered/raised"

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### **COLOUR OF COATING:**

Spike axle:	RAL 3000 flame red
Cover plates:	RAL 1007 daffodil yellow
Cover plates:	RAL 3000/9010 (red/white) V-striped (Optional)
Cover plates:	RAL 9005/1007 (black/yellow) V-striped (Optional)
Underground housing:	RAL 7030 stone grey
Drive cabinet:	RAL 7035 light grey

### **INSTALLATION UNIT:**

The tyre killer is delivered as a ready to install unit. The electro-hydraulic drive unit is installed in a separate drive cabinet and factory-adjusted.

### **FOUNDATION:**

Reinforced foundation according to manufacturer's instructions

### **MANUFACTURER:**

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