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## Tender Description

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### **Tyre Killer SHARK**

Tyre Killer with a blocking width up to 6.0 m consisting of coupled blocking modules and drive module with drive housing, drive column, electro-mechanical drive and control unit.

#### **SPIKE AXLE:**

Axle with spikes positioned at 100 mm centre distance  
Blocking width: from 2000 - 6000 mm in 500 mm increments  
Blocking height: 215 mm above road way top edge

#### **UNDERGROUND HOUSINGS:**

Length: 500 mm for 0.5 m blocking module and drive module  
Length: 1000 mm for 1.0 m blocking module  
Width: 510 mm  
Height: 260 mm incl. drainage sleeve

#### **WHEEL LOAD:**

100 kN wheel load according to SLW60 - DIN 1072

#### **WEIGHT:**

1.0 m blocking module: approx. 130 kg  
0.5 m blocking module: approx. 72 kg  
Drive module: approx. 150 kg

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

Raising of axle spike < 1 sec  
Lowering of axle spike <1 sec

#### **DRIVE COLUMN:**

Drive column W x H x D = 1200 mm x 480 mm x 270 mm for outdoor installation mounted on drive housing complete with door, gear-motor, control unit and limit switches for switching-off in the end positions.

#### **LOCKING MECHANISM FOR DRIVE COLUMN:**

Swing handle with profile half cylinder

#### **DRIVE UNIT:**

Worm gear with AC motor 0.37 kW, 400 V, 50 Hz in compact design complete with high-wear resistant roller chains, chain wheels and drive shafts as power transmission elements.

#### **LOCKING:**

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In end positions and mechanically in case of power failure

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

Manual lowering of spikes after disengagement of drive via release lever

### **CONTROL:**

Control board WE-Tronic II complete with pluggable LCD monitor with clear text display, contactor board and cover in control box H x W x D = 400 x 350 x 210 mm, IP66, installed in drive column, prepared for automatic functions, equipped with a range of connection and adjustment options including sockets for optional plug-in remote control receiver and induction loop detector, 4 nos. programmable inputs, 6 nos. programmable output relays and end position setting via limit switch, control voltage 24 V.  
Optional: Input/output module with 4 nos. additional programmable inputs and outputs

### **CONTROLLERS:**

1 no. key switch "Raise-Stop-Lower" in drive column door

### **NORMAL OPERATION:**

Raising, stop and lowering via key switch in drive column or connected optional control devices.

### **EMERGENCY OPERATION (EO) (OPTIONAL - ONLY AVAILABLE FOR NON-EUROPEAN COUNTRIES):**

Raising of the tyre killer to the fully secure position upon activation of the optional anti-terror push button by overriding all safety functions. The tyre killer will remain in the secure position until the anti-terror button has been reset.

### **CONTROL AND SIGNALLING 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
- hand-held transmitter
- additional push button or key switch
- single or double loop detector
- key switch "automatic on/off"
- traffic light red/green, D200
- LED permanent beacon with flashing function

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**STATUS INDICATION (OPTIONAL):**

Potential-free contacts "Tyre Killer lowered/raised/malfunction"

**COLOUR OF COATING (STANDARD):**

Spikes: RAL 3000 flame red  
Cover plates: RAL 7035 light grey  
Underground housing: RAL 7035 light grey  
Drive housing: RAL 7035 light grey  
Drive column: RAL 7035 light grey

**COLOUR OF COATING (OPTIONAL):**

Spikes: other RAL colours  
Cover plates: RAL 3000/9010 (red/white) diagonally striped  
Cover plates: RAL 9005/1007 (black/yellow) diagonally striped  
Underground housing: other RAL colours  
Drive housing: other RAL colours  
Drive column: other RAL colours

**INSTALLATION UNIT:**

The tyre killer is delivered as a ready to install unit. The electro-mechanical drive unit and control unit are installed in a drive column and factory-adjusted.

**FOUNDATION:**

Foundation according to manufacturer's instructions

**MANUFACTURER:**

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