
Tender Description

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:

Tender Description

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

Tender Description

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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