
Tender Description

Barrier Lift System K12/L2

Clear width of opening up to 10.0 m

IMPACT LOAD/KINETIC ENERGY:

1699 kJ (6.8 t @ 50 mph)

Certified according to DOD SD-STD-02.01 Rev. A 03/2003 K12/L2

WHEEL LOAD:

100 kN wheel load according to SLW60 - DIN 1072

CRASH BEAM:

Crash beam made of rectangular hollow section profile

RHS 450 x 250 guided within the guide stands on both sides.

Crash beam fitted with cover plate.

Clear width of opening (CWO): from 6000 - 10000 mm

in 1000 mm increments

Blocking height: 1100 mm

GUIDE STANDS:

Height: 2213 mm (without hydraulic cylinder)

Width: 1293 mm

Depth: 571 mm

The hydraulic cylinders for raising and lowering of the crash beam are fitted inside the guide stands.

The guide stands are fastened to ground sleeves and concreted in together.

Height above foundation: 1713 mm

GROUND FRAME:

Length: CWO +24 mm

Width: 880 mm (without anchors)

Depth: 310 mm (without 150 mm high drainage sleeves)

The ground frame is fitted with drainage sleeves and heating band.

It is bolted to a foundation beam approx. 310 mm below road level.

WEIGHT:

Crash beam: approx. 1610 – 2130 kg (depending on CWO)

Ground frame: approx. 650 – 960 kg (depending on CWO)

Guide stands + ground sleeves: approx. 2560 kg

Drive cabinet approx. 280 – 400 kg

NORMAL OPERATING SPEED:

Raising: approx. 0.17 m/sec

Lowering: approx. 0.20 m/sec

Tender Description

DRIVE CABINET:

Drive cabinet HxWxD=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 and LED-system light.
Optional: outdoor version incl. hygostat, rain cover and outdoor coating

Optional: drive cabinet HxWxD=1800x1200x500 incl. 200 mm high base in connection with RO1 option for EU and EFTA countries

HYDRAULIC DRIVE UNIT:

Hydraulic aggregate with motor 4.0 kW, pump, magnetic valves, high-pressure hydraulic cylinders and hand pump
Length of hydraulic hoses: max. 25 m

EMERGENCY OPERATION DURING POWER FAILURE:

Manual raising via hand pump

Manual lowering via ball cock valve

Optional: Accumulator and battery pack for one remote operation (RO1) during power failure

LOCKING MECHANISM FOR DRIVE CABINET:

3-point locking system with double-bit insert

Optional: Folding lever handle with profile cylinder

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

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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

Tender Description

- 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 "BLS lowered/raised"

COLOUR OF COATING:

Crash beam: RAL 9010 pure white
Crash beam: RAL 3000 flame red (Optional)
Crash beam: RAL 3000/9010 (red/white) striped (Optional)
Cover plates crash beam: RAL 9010 pure white
Guide stands: RAL 9010 pure white
Ground frame: RAL 9010 pure white
Ground sleeves: primed (dark grey)

INSTALLATION UNIT:

The Barrier Lift System 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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