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## Tender Description

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### **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

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

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- 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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