

# **TECHNICAL DATA**



#### BARRIER LIFT SYSTEM K12 UP TO 6M CWO

Impact Load  1862 kJ (7,5 1 @ 80 km/h) Crash test certified according to PAS 68 W/760(NS)/80/900.0/31.0 and DOS SD-STD-02.01 Rev. A 03/2003 K12/L3  Clear Width of Opening (CWO)  3.0 m, 3.5 m, 4.0 m, 4.5 m, 5.0 m, 5.5 and 6.0 m  Blocking Height  1100 mm Crash Beam Rectangular hollow section profile RHS 450x250 with cover plate  Guide Stands Hx Wx D: 2913 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm  Ground Frame Lx Wx H; (CWO+ 24 mm) x 880 mm x 310 mm (width without anchors, height without 150 mm high drainage sleeves) Total width approx: 1013 mm  Ground Sleeves Hx Wx D: 1354 mm x 1370 mm x 400 mm (height without fastening bots, dispth without sleeve for hollow pipe connection)  Drive Cabinet Hx Wx D: 1400 mm x 1200 mm x 400 mm incl. 200 mm high base (standard/RO1)  Emergency Operation Via hand pump (standard) Accumulator incl. Rechargeable batteries for 1 movement (RO1) (optional)  Palsing: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec  Wheel Load 100 kN according to SLW60—Din 1072  Drive 4.0 kW, 400 / 230 V (three-phase), 50 Hz  Hydraulic Fluid Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1  PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control votage 24 V  Approx. 430 – 650 kg (ground frame) Approx. 420 – 650 kg (ground frame) Guide stands Guide stands Guide stands Guide stands AR. 2010 pure white Guide positive cabinet Guide pop ure white Guide positive cabinet Guide flaver Drive ARL 2010 pure white Guide positive cabinet Guide flaver Guide positive cabinet Guide stands Guide positive cabinet Guide positive Guide po				
Cresh test certified according to PAS 68 W7500[N3]/80/9010.0/31.0 and DOS \$D-STD-02.01 Rev. A 03/2003 K12/L3 Clear Width of Opening (CWO) 3.0 m, 3.5 m, 4.0 m, 4.5 m, 5.0 m, 5.5 and 6.0 m  Blocking Height 1100 mm Pectangular holibw section profile PHS 450x250 with cover plate  Guide Stands H x W x D: 2913 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm  Ground Frame L x W x D: 2913 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm  Ground Frame River H x W x D: 1354 mm x 1370 mm x 400 mm (width without anchors, height-without 150 mm high drainage sleeves) Total width approx. 1013 mm  Ground Sleeves H x W x D: 1400 mm x 1200 mm x 400 mm (height without fastening bots, depth without sleeve for holiow pipe connection)  Pive Cabinet H x W x D: 1400 mm x 1200 mm x 400 mm (height without fastening bots, depth without sleeve for holiow pipe connection)  Porrating Speed Railing: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec  Wheel Load 100 kN according to SLW80 – DNI 1072  Drive 4.0 kW, 400 / 230 V (three-phase), 50 Hz  Hydraulic Fluid Mineral oil H LP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1  PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V  Weight Approx. Approx. 430 – 650 kg (ground frame) Approx. Approx. 430 – 650 kg (ground frame) Guide stands and ground sleeves) Approx. AP	Design			
Blocking Height 1100 mm  Crash Beam Rectangular hollow section profile RHS 450x250 with cover plate  Guide Stands H x W x D: 2913 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm  Ground Frame L x W x H: (CWO + 24 mm) x 880 mm x 310 mm (width without anchors, height without 150 mm high drainage sleeves) Total width approx. 1013 mm  Ground Sleeves H x W x D: 1354 mm x 1370 mm x 400 mm (height without fastening botts, depth without sleeve for hollow pipe connection)  Drive Cabinet H x W x D: 1400 mm x 1200 mm x 400 mm inct, 200 mm high base (standard/RO1)  Emergency Operation Via hand pump (standard) Accumulator inct. Rechargeable batteries for 1 movement (RO1) (optional)  Operating Speed Raising: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec  Unwering: approx. 0.20 m/sec  Unwering: approx. 0.17 m/sec Lowering: approx. 0.17 m/sec Lowering: approx. 0.17 m/sec Lowering: approx. 0.20 m/sec  Wheel Load 100 kN according to SLW60 – DIN 1072  Drive 4.0 kW, 400 / 230 V (three-phase), 50 Hz  Hydraulic Fluid Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1  PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V  Approx. 3150 kg (guide stands and ground sleeves) Approx. 430 – 650 kg (ground frame) Approx. 430 – 660 kg (ground frame) Ground sleeves primed (dark grey) Drive cabinet RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet RAL 9010 pure white RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet on Bactolours Over plate crash beam other RAL colours or DB colours other RAL colours or DB colours	Impact Load			
Rectangular hollow section profile RHS 450x250 with cover plate	Clear Width of Opening (CWO)	3.0 m, 3.5 m, 4.0 m, 4.5 m, 5.0 m, 5.5 and 6.0 m		
Guide Stands	Blocking Height	1100 mm		
Colour (Standard)   L x W x H: (CWO + 24 mm) x 880 mm x 310 mm (width without anchors, height without 150 mm high drainage sleeves) Total width approx. 1013 mm   Total width approx. 1014 mm x 1400 mm x 1400 mm incl. 200 mm high base (standard/RO1)	Crash Beam	Rectangular hollow section profile RHS 450x250 with cover plate		
Ground Sleeves	Guide Stands	H x W x D: 2913 mm x 1293 mm x 571 mm (height without hydraulic cylinder), height above foundation: 1713 mm		
Drive Cabinet	Ground Frame			
Emergency Operation         Via hand pump (standard) Accumulator incl. Rechargeable batteries for 1 movement (RO1) (optional)           Operating Speed         Raising: approx. 0.17 m/sec approx. 0.20 m/sec           Wheel Load         100 kN according to SLW60 – DlN 1072           Drive         4.0 kW, 400 / 230 V (three-phase), 50 Hz           Hydraulic Fluid         Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1           Control Unit         PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V           Weight         Approx. Approx. Approx. 3150 kg (guide stands and ground sleeves) Approx. 430 – 650 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)           Colour (Standard)         Crash beam Cover plate crash beam RAL 9010 pure white Guide stands and ground sleeves primed (dark grey) Drive cabinet RAL 9010 pure white RAL 9010 pure white Ground frame RAL 9010 pure white RAL 2000 flame red / RAL 9010 pure white RAL 3000 flame red or other RAL colours or DB colours or DB colours of DB colours o	Ground Sleeves	H x W x D: 1354 mm x 1370 mm x 400 mm (height without fastening bolts, depth without sleeve for hollow pipe connection)		
Raising: approx. 0.17 m/sec   Lowering: approx. 0.20 m/sec	Drive Cabinet	H x W x D: 1400 mm x 1200 mm x 400 mm incl. 200 mm high base (standard/RO1)		
Lowering: approx. 0.20 m/sec	Emergency Operation	Via hand pump (standard) Accumulator incl. Rechargeable batteries for 1 movement (RO1) (optional)		
Drive 4.0 kW, 400 / 230 V (three-phase), 50 Hz  Hydraulic Fluid Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1  Control Unit PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V  Approx. 1230 – 1610 kg (crash beam) Approx. 3150 kg (guide stands and ground sleeves) Approx. 430 – 650 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)  Crash beam RAL 9010 pure white Cover plate crash beam RAL 9010 pure white Ground frame RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet RAL 7035 light grey  Crash beam Striped RAL 3000 flame red / RAL 9010 pure white RAL colours or DB colours Colours or DB colours other RAL colours or DB colours other RAL colours or DB colours other RAL colours or DB colours	Operating Speed			
Hydraulic Fluid  Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S – NWG, water hazard class 1  PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V  Approx.  AL 9010 pure white  AL	Wheel Load	100 kN according to SLW60 - DIN 1072		
Control Unit  PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24 V  Approx.  AL 9010 pure white  Approx.  Ap	Drive	4.0 kW, 400 / 230 V (three-phase), 50 Hz		
(optional), control voltage 24 V  Approx. 1230 – 1610 kg (crash beam) Approx. 3150 kg (guide stands and ground sleeves) Approx. 430 – 650 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)  Colour (Standard)  Cover plate crash beam RAL 9010 pure white Ground frame RAL 9010 pure white Ground frame RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet RAL 7035 light grey  Colour (Optional)  Cover plate crash beam other Guide posts other RAL colours or DB colours Ground frame other RAL colours or DB colours Ground frame other RAL colours or DB colours Ground frame other RAL colours or DB colours	Hydraulic Fluid	Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S - NWG, water hazard class 1		
Approx. 3150 kg (guide stands and ground sleeves) Approx. 430 – 650 kg (ground frame) Approx. 280 – 400 kg (drive cabinet)  Colour (Standard)  Crash beam RAL 9010 pure white Cover plate crash beam RAL 9010 pure white Ground frame RAL 9010 pure white Ground frame RAL 9010 pure white Ground sleeves primed (dark grey) Drive cabinet RAL 7035 light grey  Colour (Optional)  Cover plate crash beam other Guide posts other RAL colours or DB colours Ground frame Cover plate crash beam other RAL colours or DB colours Ground frame other RAL colours or DB colours	Control Unit			
Colour (Standard)  Cover plate crash beam Guide stands Ground frame Ground sleeves Drive cabinet  Colour (Optional)  Cover plate crash beam RAL 9010 pure white RAL 3000 flame red or other RAL colours or DB colours RAL 2000urs or DB colours Other RAL colours or DB colours	Weight	Approx. Approx.	3150 kg (guide stands and ground sleeves) 430 – 650 kg (ground frame)	
Colour (Optional)  Cover plate crash beam other Guide posts other RAL colours or DB colours  Ground frame  Colours or DB colours other RAL colours or DB colours other RAL colours or DB colours	Colour (Standard)	Cover plate crash beam Guide stands Ground frame Ground sleeves	RAL 9010 pure white RAL 9010 pure white RAL 9010 pure white primed (dark grey)	
Temperature Range -20°C - 60°C	Colour (Optional)	Cover plate crash beam other Guide posts	colours or DB colours RAL colours or DB colours other RAL colours or DB colours	
	Temperature Range	-20°C – 60°C		

### 1300 558 304



## CERTIFIED TO



## **TECHNICAL DATA**



#### **BARRIER LIFT SYSTEM K12 UP TO 10M CWO**

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Design	Barrier Lift System with electro-hydraulic drive in separate drive cabinet, guide posts, anchor baskets, horizontal crash beam and ground frame for installation in roadway		
Impact Load	1699kJ (6.8t @ 50mph) Crash test certified according to DOD SD-STD-02.01 Rev. A 03/2003 K12/L2		
Clear Width of Opening (CWO)	6.0m, 7.0m, 8.0m, 9.0m and 10.0m		
Blocking Height	1100mm		
Crash Beam	Rectangular hollow section profile RHS 450x250 with cover plate		
Guide Stands	H x W x D: 2213mm x 1293mm x 571mm (height without hydraulic cylinder), height above foundation: 1713mm		
Ground Frame	L x W x H: (CWO + 24mm) x 880mm x 310mm (width without anchors, height without 150mm high drainage sleeves) Total width approx. 1013mm		
Ground Sleeves	H x W x D: 654mm x 1370mm x 400mm (height without fastening bolts)		
Drive Cabinet	H x W x D: 1400mm x 1200mm x 400mm incl. 200mm high base (standard/RO1)		
Emergency Operation	Via hand pump (standard) Accumulator incl. rechargeable batteries for one movement (RO1) (optional)		
Operating Speed	Raising: approx. Lowering: approx.	0.17m/sec 0.20m/sec	
Wheel Load	100kN according to SLW60 - DIN 1072		
Drive	4.0kW, 400 / 230 V (three-phase), 5 Hz		
Hydraulic Fluid	Mineral oil HLP 22 or biodegradable oil Plantohyd 22 S - NWG, water hazard class 1		
Control Unit	PLC in control box installed in drive cabinet (standard), PLC in separate control box for wall mounting inside a building (optional), control voltage 24V		
Supply Voltage	400V (3Ph + N + PE), 50Hz		
Weight	Approx. Approx. Approx. Approx.	1610 – 2130 kg (crash beam) 2560 kg (guide stands and ground sleeves) 650 – 960kg (ground frame) 280 – 400kg (drive cabinet)	
Colour (Standard)	Crash beam Cover plate crash beam Guide stands ]Ground frame Ground sleeves Drive cabinet	RAL 9010 pure white primed (dark grey) RAL 7035 light grey	
Colour (Optional)	Crash beam  Cover plate crash beam Guide posts Ground frame	Striped RAL 3000 flame red / RAL 9010 pure white RAL 3000 flame red or other RAL colours or DB colours	
Temperature Range	-20°C – 60°C		

### 1300 558 304