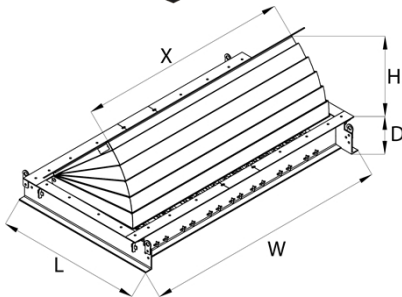


# HRB ROAD BLOCKER (shallow mount) TECHNICAL SPECIFICATIONS



**PAS 68:2013**  
**IWA 14-1:2013**  
**ASTM F2656-18**



Raising Height (H)  
90 cm

Product Code	Blocker Unit Width (X)	Nr. of Pistons	Dimensions (LxWxD)
HRB 10P__SHLW	1000	1	2250 x 1550 x 400
HRB 15P__SHLW	1500	1	2250 x 2050 x 400
HRB 20P__SHLW	2000	1	2250 x 2550 x 400
HRB 25P__SHLW	2500	1	2250 x 3050 x 400
HRB 30P__SHLW	3000	1	2250 x 3550 x 400
HRB 35P__SHLW	3500	1	2250 x 4050 x 400
HRB 35P__SHLW	3500	2	2250 x 4050 x 400
HRB 40P__SHLW	4000	2	2250 x 4550 x 400
HRB 45P__SHLW	4500	2	2250 x 5050 x 400
HRB 50P__SHLW	5000	2	2250 x 5550 x 400
HRB 55P__SHLW	5500	2	2250 x 6050 x 400
HRB 60P__SHLW	6000	2	2250 x 6550 x 400
HRB 65P__SHLW	6500	2	2250 x 7050 x 400

- Power** : Standard 380V AC 3-Phase 50/60 Hz, 3,3 - 7,5 KVA motor (varies depending on blocker size).  
Opt. 220V, 110V 1-Phase 50/60 Hz (for some models/sizes only), optionally 24V DC for emergency situations in case of power failure.
- Control Pack** : 24V DC powered and PLC control unit is placed in power unit cabinet.  
Solenoids 24V DC (Ops.12V DC / 220V AC)
- Speed** : Standard Operation ~2,5 - 6 sec. (ascend/descend) depending on unit dimensions.  
Emergency raise up (upwards) by optional hydraulic accumulator ~1,5 sec. and may vary depending on unit dimensions.
- IP Rating** : IP 55 - Hydraulic Power Unit,  
IP 67 - Electronics (optional), protection with housing/box,  
IP 68 - Hydraulic Piston
- Crash / Impact Rating** : Crash tested and certified according to;  
IWA 14-1:2013 Road Blocker V/7200[N3C]/80  
PAS68:2013 Road Blocker V/7500[N3]/80  
ASTM F2656-18 C750/7200  
standards (HRB 30 P 90 SHLW model).
- Axle Load Resistance** : 50T
- Hydraulic Cylinder Unit** : Heavy duty, dust sealed electrostatic powder coated 50 mm hydraulic cylinder.  
Models between 1- 3 meter widths contain a single piston.  
(Double piston version is optionally available for model with 3,5 meter width).  
Models between 4,0 - 6,5 meter widths contain double pistons.  
Cylinder unit features a safety valve against leakage and hose failure.

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- Hydraulic Power Unit** : Strengthened industrial pump, 60 lt oil tank capacity with magnetic metal collector and particle filter.  
Built-in oil level sensor and oil temperature indicator.  
70-100 bar pressure; maximum running pressure is 150 bar.  
10 mt R2 (double wire braided mesh) reinforced hydraulic hose.
- System** : Down, Up, Emergency and external sensor inputs/outputs (e.g. Loop Detector, Beam Detector, Signalization, Remote Control, etc.).  
System alerts with an audio signal during lowering and raising operation.  
A loud siren output in case of alarm or emergency.  
Can be lowered or raised automatically in case of emergency (User's preference).  
Can be lowered and raised manually in case of power failure or during the maintenance service with manual pump and manual valve feature. Automatic raise up mode deploys (optionally with synchronized loop detector) the road blocker after the vehicle has passed over).  
Sensor controlled stopping both at the top and bottom positions of the blocker unit. Alt ve üst pozisyonda duruşlar sensör kontrollü olarak gerçekleştirilmektedir.
- Power Unit** : Motor, hydraulic pump and solenoid valves are contained in an easily accessible hot-dip-galvanized and electrostatic powder painted cabinet with a built-in lock lid. (Opt. Stainless Steel Cabinet)
- Blocker Cabinet (underground unit)** : All parts are colored with industrial paint with two components.  
U-shaped profile structure for maximum strength.  
The blocker and cabinet are designed so that no vehicle crashing effect can displace it after embedded or installed in to the ground.
- Blocker Unit (impact blocking unit)** : All parts are colored with industrial paint with two components.  
Hot dip galvanised and electrostatic powder coated vehicle pass through surface (top plates).  
The hinge system is specially designed to have a flattened surface level with the top plate so that vehicles can pass over smoothly and quietly. Top panel where the vehicle pass over is made of 10/11mm thick non-slip surface steel hot-dip galvanised before paint.  
The system moves up and down with 50mm diameter stainless steel hinges (example: 3 meter blocker contains 7 pieces of 50mm diameter stainless steel hinges).  
Blocker unit raises 45° angle from the ground level.  
A top lid is provided for easy access for service and maintenance on the top plate.  
Accordion type panel closure on front is optionally available.
- Control System** : **Manuel Control Button Unit:**  
Provided with a control button unit including 3 switches for downwards, upwards, stop (optional emergency operation), can stop the blocker motion with the command/signal coming from detector, equipped with built-in LED visual indications and 10 mt cable.  
**Compatibility with Access Control Systems:**  
Compatible with any access control system (by third parties).  
**Optional Unit:**  
With the optional model "RB CONT.UNIT.V.001" users can monitor the diagnostic functions, can be accessed through LAN, RS485 protocols.  
System is provided inside a metal cabinet that also includes the other functional switches like downward, upward, stop, emergency operations.  
With the built in 124x68 LCD screen, all status of the operation and system diagnostic can be monitored through messaging functions like oil status, loop or beam detectors status, water level inside the cabinet, blocker position according to user preference, any .bmp files can be displayed.  
The system is driven by the PLC.
- Battery Back-up for Power-off Situation** : Battery unit with capacity of min. 100 movements (50 deploy + 50 retract) when fully charged is optionally available.
- Optional Features and Accessories** : Traffic lights (red-green), Traffic light Pole, Loop Detector (double/single contact), Beam Detector, 220V, 110V motor, 24V DC for emergency situations in case of power failure, Remote Control (receiver and transmitter are 3 channels), UPS, Photocell Sensor (receiver+ transmitter with 50cm

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height pole), RB CONT. UNIT.V.001 Control Unit, Intercom, External Buttons, Hydraulic Accumulator for emergency fast raise up (1 piston or 2 pistons systems), Surface Frame (sizes: from 250mm to 1000mm), Oil Cooler, Oil Heater, Heater for electronic components, hot-dip galvanization for cabinet, blocker and impact surface units, double effect hydraulic unit, double speed hydraulic unit, powered audio signal (siren), PLC diagnostic monitor, IP67 box (for PLC, SMPS, connectors etc inside power unit), LED indicator on front, oil level sensor, accordion type front closure.

### **Installation**

: Easy Installation with C30 grade concrete and steel rebar reinforcement. Ground leveling and preparation works shall be done before concrete pouring. Allowable bearing value of the ground shall be minimum 1/2 kg/cm<sup>2</sup>.

*\*Design and specifications are subject to change without notice.*