## HRB ROAD BLOCKER

### (Anti-terror / Heavy Duty Model)

## CAME 🕆 ÖZAK

#### **TECHNICAL SPECIFICATIONS**





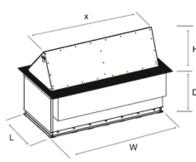


Power	Standard 380V AC 3-Phase 50/60 Hz, 2,2 - 11 kW motor (varies depending on blocker size).					
	Operating with 24V DC in case of power failure is optionally available.					
Control Pack	24V DC powered PLC control unit is placed in power unit cabinet.					
	24V DC (opt.12V DC / 220V AC) solenoids.					
Speed	Standard operation ~3 - 5 sec. (ascend/descend) depending on road blocker dimensions.					
	Fast raise up (EFO, by optional hydraulic accumulator) ~1 - 1,5 sec. and may differ depending on road blocker dimensions for road blockers					
	wider than 4,0 m.					
IP Rating	IP55 - Hydraulic Power Unit					
	IP67 - Electronics Control Unit with IP67 housing/box protection (optional)					
	IP68 - Hydraulic Piston					
Operating Temperature	-5°C / +55°C (opt30°C / +70°C)					
Crash / Impact	Crash tested and certified according to IWA 14-1:2013 Road Blocker V/7200[N3C]/80,					
Rating	PAS68:2013 Road Blocker V/7500[N3]/80, and ASTM F2656-20 C750/7200 standards (HRB 30 R 110).					

Crash tested and certified according to ASTM F2656-07 at M50 P1 (K-12) level (HRB 30 R 90) also designed and produced to withstand impacts mentioned below:

Standard	Vehicle Type	Weight	Speed
PAS 68	N3	7500 kg	80 km/h (50 mph)
IWA 14-1	N3C	7200 kg	80 km/h (50 mph)

(Please contact for applicable product dimensions)



				Raising Height	Raising Height
				600 mm	900 mm
	Product Code	Blocker Unit	Nr. of	Dimensions	Dimensions
		Width (X)	Pistons	(LxWxD)	(LxWxD)
	HRB 10R	1000	1	1255 x 1170 x 975	1665 x 1170 x 1270
	HRB 15R	1500	1	1255 x 1670 x 975	1665 x 1670 x 1270
-	HRB 20R	2000	1	1255 x 2170 x 975	1665 x 2170 x 1270
	HRB 25R	2500	1	1255 x 2670 x 975	1665 x 2670 x 1270
н	HRB 30R	3000	1	1255 x 3170 x 975	1665 x 3170 x 1270
	HRB 35R	3500	1	1255 x 3670 x 975	1665 x 3670 x 1270
D	HRB 35R	3500	2	1255 x 3670 x 975	1665 x 3670 x 1270
	HRB 40R	4000	1	1255 x 4170 x 975	1665 x 4170 x 1270
	HRB 40R	4000	2	1255 x 4170 x 975	1665 x 4170 x 1270
	HRB 45R	4500	2	1255 x 4670 x 975	1665 x 4670 x 1270
	HRB 50R	5000	2	1255 x 5170 x 975	1665 x 5170 x 1270
	HRB 55R	5500	2	1255 x 5670 x 975	1665 x 5670 x 1270
	HRB 60R	6000	2	1255 x 6170 x 975	1665 x 6170 x 1270

\* Different raising heights are optionally available.

Axle Load Resistance	50 t
Hydraulic Cylinder	Dust sealed hydraulic cylinder, developed for heavy duty use.
Unit	1 - 4 m wide models contain single piston (opt. 3,5 and 4 m wide models contain double pistons). 4,5 - 6,0 m wide models contain double
	pistons.
	Contains safety valve for hose bursts.

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Hydraulic Power Unit and Cabinet	Strengthened industrial 40 - 120 It capacity oil Built-in oil level indicate feature for low oil level. Standard 70 - 150 bar 10 m R2 type (double v Motor, hydraulic pump	tank with magnetic n or and sensor, oil tem pressure (max. 180 t vire braided mesh) rei	perature indicator and a par). nforced hydraulic hose	audio alarm			
	hot-dip-galvanized and (opt. stainless steel cat	electrostatic powder			le la		
	Cabinet Type	Width (mm)	Length (mm)	Height (mm)			
	Cabinet 1	940	570	970			
	Cabinet 2	1040	590	1285			
	Cabinet 3	1243	840	1285			
	*Suitable cabinet type i	s selected according	to the preferred produc	t configuration.			
System	Down, up, stop, emergency inputs and external sensor inputs/outputs (e.g. loop detector, safety sensor, traffic light, remote control, etc.). System alerts with an audio signal during lowering and raising operation. A loud siren alert in case of alarm or emergency. System stops in case of emergency as per default set-up and possible to be lowered or raised automatically (user's preference). Can be lowered and raised manually in case of power failure or during maintenance with manual pump and manual valve feature. Automatic raise up mode deploys (available with optional 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. Free standing piston connection structure that does not put any load on the piston during vehicle passage and in case of an impact. Safety devices (if any, such as; safety sensor, loop detector, etc) are enabled in case fast raise up (EFO, optional) feature is activated and						
Blocker Unit	they can be optionally disabled.						
(Underground Unit)	All parts are coloured with industrial paint with two components over anticorrosive primer application. Body is structured and strengthened with U-shaped beams. Contains galvanised steel sleeve around main chassis. Product is designed that no vehicle crashing effect can displace it after embedded or installed in to the ground.						
Blocker Unit				l electrostatic powder coa			
(Impact Blocking Unit)	All other parts are coloured with industrial paint with two components over anticorrosive primer application. Moving parts are colored with RAL 1003 yellow (impact surface yellow-black) and fixed road surface plates in RAL 9005 black. In addition, the impact surface is finished with reflective signs and warnings. Bulge free hidden hinge structure below the ground level allows vehicles to pass over smoothly and quietly. Impact blocking unit is made of special, reinforced, 6 mm thick, solid V-formed vertical impact load distributing panel construction assembled to the main chassis with 350 - 550 mm distance from each other. Each impact load distributing panel is supported with 4 pieces of 30 x 10 mm solid steel bars placed with equal distance from each other so that a strong steel construction has been designed. Impacts are absorbed and blocked by impact load distributing panels together with 10 mm thick steel bars attached to their V-formed front sides and specially formed hook type holders.						
	<ul> <li>Frontal crash-facing section is furnished with a replaceable 3 mm thick round formed steel sheet to handle light impacts.</li> <li>Resistance of 10 mm + 3 mm thick impact surfaces are increased with the constructive structure by vertical solid panels behind and the 30 x 10 mm solid steel bars.</li> <li>Top panels where the vehicles pass over are made of 10 / 11 mm thick hot-dip galvanized steel with non-skid surface.</li> <li>The system moves up and down as a block through Ø50 mm stainless steel hinges of which quantity varies according to blocker width (a 3 m wide blocker contains 7 pieces of hinges).</li> <li>Impact blocker unit raises with 45° angle from the ground level and equipped with flashing indicators on side and front panels. A top lid</li> </ul>						
Control System	<ul> <li>integration is available for easy access to interior units for service and maintenance purposes.</li> <li>3 buttons for up, down and stop operations and 1 button for emergency stop are contained in an IP67 box (optionally, 1 button for EFO-fast raise up).</li> <li>System stops its movement with the command from safety sensor (opt.) and loop detectors (opt.).</li> <li>Contains built-in LED indicators and 10 m cable.</li> <li>The system works with PLC as standard.</li> <li>Status of safety sensors (if any) and loop detectors (if any), position and movement of the blocker and low oil level situation of the system can be monitored with optional PLC with diagnostic display.</li> <li>Compatible with any access control system (by third parties).</li> </ul>						
Power-off Situation	Road Blocker remains i	n its position in case	of power-off. Optionally	; can be lowered or raise retract) when fully charge	d and lowered by battery pack with 24V DC		
Optional Features and	Hydraulic accumulator	for EFO-fast raise up	(1 piston or 2 pistons	systems), 24V DC motor i	in case of power failure (50 deploy + 50		
Accessories	LED, electrostatic powo steel), loop detector (do	ler coated over 304 g puble contact), safety control (receiver and tr	rade stainless steel boo sensors (with 50 cm he ansmitter), external bu	dy), traffic light pole (elect eight poles), IP67 box (for ttons, hot dip galvanizatio	np, traffic light (Ø200/300 mm, red-green trostatic powder coated over hot dip galvanised PLC, SMPS, connectors etc inside power on, double effect hydraulic unit, double speed		
Installation	Installation with C30 gr pouring the concrete. A	ade concrete and ste	el rebar reinforcement.	Ground levelling and prep e minimum 1/2 kg/cm², i	paration works shall be carried on before f not, works shall be carried on to fulfil.		