

Rerailing Systems

Feel the power



Holmatro sets the new standard for rerailing

Mastering power

Holmatro products are all about the principle that only controlled power can be deployed effectively. We have expressed this vision in the slogan 'Mastering Power' which applies perfectly to both business units that together form the Holmatro Group.

Industrial Equipment is about applying and mastering high pressure power in heavy industrial applications. And with Rescue Equipment it is a matter of life and death for fire brigades and rescue organizations to work in a controlled, precise and well-thought-out way with the proper equipment.

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Rerailing Systems

Years of rerailing experience combined with the most modern technology

For decades rerailing systems have been available and provide excellent assistance for putting derailed railway vehicles back on their track. A lot of rerailing system providers claim to offer the most innovative lightweight system, but user experiences seem to tell us otherwise. Reason enough for Holmatro to study the rerailing process closer in collaboration with the biggest Dutch rail infrastructure management company and examine the current rerailing systems available in the market. Together we were able to combine years of rerailing experience with the most modern technology in a single system. The result is revolutionary.

Faster, safer and a more controllable rerailing solution for all types of railway vehicles

When it comes to rerailing a rail vehicle back on the track it's important to do the job fast, safely and controlled. Reducing delay and costs are main priority, as well as providing workers a safe environment while lifting, moving and lowering the railway vehicle. By taking these priorities as guidance, Holmatro developed an extremely user-friendly solution that allows users to do the job faster, safer and with better control. No matter the type of railway vehicle.

Maximum performance with minimum weight

Thanks to the lightweight components – up to 50% lighter than those of similar systems available on the market – physical burden is minimized considerably. All components have optimally placed grips and are easy to assemble and disassemble without the use of extra equipment. Comfortable carrying, handling, positioning, assembling and disassembling can be done by one person.

Independent control valves for synchronized lifting and lowering

As they say, a system is only as good as its operator. Therefore, controlling oil flows is often done by experienced workers who have a great feeling for the equipment. Holmatro's powerful Quattro pump makes controlling the vehicle easier. The pump sends 4 equal flows to 4 independent control valves. Operating the control valves simultaneously results in guaranteed uniform cylinder stroke speeds during lifting and lowering, regardless of the load they're carrying. Of course, the valves can also be controlled separately to operate the cylinders individually.

Wireless remote control to operate the electromagnet valves

The pump can be operated remotely. Therefore it does not need to be right next to the railway, but can remain for

example in the recovery vehicle. The wireless remote control allows the operator to adopt a safe position. It also enables him to move around the railway vehicle freely and keep an eye on the situation, without being dependent on the observations of others.

Safely working near the railway vehicle

The lifting cylinders of the Rerailing System are connected to colored hoses, which also match the colors on the pump control panel. Color coding helps to avoid incorrect assembly and thus faulty operations are decreased enormously. Lowering valves with an integrated hose rupture security on each lifting cylinder keep the load steady when the operator stops controlling the pump or in the event of a hose rupture. When a railway vehicle has to hold its position for a longer time period, mechanical securing is provided by special stacking rings that can be easily placed around the plunger of the lifting cylinder.

Controlled lateral movements

Holmatro's Rerailing System consists of lightweight modular converted traverse beams. To enable sideways movement, traverse cylinders with an equal capacity for both pushing and pulling are connected to traverse sleds which are placed on the beams. By using easily replaceable sleeve bearings both under and in the traverse sleds instead of traditional steel wheel rollers, less stress is created on the railway vehicle and the equipment during the movement. To prevent instability of the railway vehicle and the equipment the traverse sleds are also designed with an indicator which will alert the operator timely to traverse limits in lateral direction.



Scan the QR code and discover all features and benefits of Holmatro's Rerailing System!



Which Rerailing Systems suits your application best?

Every rerailing application is different, and so is every budget. That's why Holmatro offers 3 defined sets, each one suitable for different circumstances. If a set suits your needs but a slight change would make it more perfect, changes can easily be made based on the components list. You can also compose your own customized Rerailing System. The choice is yours!

Basic set

Holmatro's Basic Rerailing System set is suitable for rerailing railway vehicles with a maximum weight of 181t in the first stage and 56t in the second stage. The basic set contains all of the components needed to lift and move railway vehicles, and to properly control the Rerailing System.

Advanced set

Holmatro's Advanced Rerailing System set is suitable for rerailing railway vehicles with a maximum weight of 181t in the first stage and 56t in the second stage. The advanced set contains all of the components included in the basic set, plus telescopic cylinders with a longer stroke that can take over the lifting of the railway vehicle when the basic lifting cylinders

are fully extended. All of the cylinders contain lowering valves with an integrated hose rupture security feature. The set is also provided with a powerful manually-controlled Quattro pump for synchronized lifting and lowering.

Premium set

Holmatro's Premium Rerailing System set is the most extensive Rerailing System available, and is suitable for rerailing heavier railway vehicles with a maximum weight of 339t in the first stage and 168t in the second stage. The premium set contains all of the components included in the advanced set, plus high capacity telescopic cylinders and a powerful wireless remote-controlled Quattro pump for synchronized lifting and lowering.

	Basic set	Advanced set	Premium set
Lightweight components	●	●	●
Suitable for synchronized lifting		●	●
Lowering valves on cylinders: - controlled lowering - hose rupture security - disconnect the hose from cylinders when placed under a load		●	●
Wireless remote control			●
Color coding	●	●	●
Stacking rings	●	●	●
Traverse limit indicator	●	●	●



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A 90 ton freight wagon back on the track in no time with safe and controlled rerailing

Johan Knuivers, the Incident Response Team Leader at ProRail: "We were looking for an innovative Rerailing System in which our years of experience could be included. It soon became apparent that Holmatro was the most suitable partner for solving our problem. The result of our close collaboration was astounding: a rerailing system was completely adapted to our requirements, and was equipped with the most modern technology. We have tested the system extensively on different types of wagons, as well as on a freight wagon which was completely filled with water. The total weight of the wagon amounted to 90 tons. Despite this extreme weight, the rerailing system functioned safely and in a controlled manner. Because we were able to move the wagon sideways on the lifting cylinders, it was back on the track in no time."



Scan the QR code and see Holmatro's Rerailing System into action!

Basic set

Holmatro's Basic Rerailing System set is suitable for railway vehicles with a maximum weight of 181t. The two Telescopic Cylinders (1) each have a capacity of 68t in the first and 21t in the second stage, and a total stroke of 220 mm to lift the railway vehicle. Both of the cylinders are placed on Traverse Sleds (2), which are located on the Beam (3). The Traverse Sleds are connected to each other by two length-adjustable Traverse Struts (4). Between the Traverse Struts a Traverse Cylinder (5) is located, with a pulling and pushing capacity of 12t. This Traverse Cylinder pushes or pulls the Traverse Sleds over the Beam. In this set, two Beams – 2200 mm and 1100 mm – are included. The Beams are connected to each other by a Connection Set (6).

Mechanical locking is provided by different Stacking Rings (7). With a fork tool (8), the Stacking Rings can be placed safely around the plunger of the Telescopic Cylinders. Sled Fill Plates (9) can be placed under the Telescopic Cylinder if necessary, when spaces between the cylinders and the lifting points need to be filled. The Locking Device (10) will prevent the vehicle from sliding during the lifting.

All of the cylinders are operated by a 230V hydraulic Vari pump and a FlowPanel (11). With the FlowPanel, the operator is able to accurately regulate the oil flow to each individual cylinder and control the load in the lifting and sliding operation. The actual pressure on each cylinder can be seen on the easy-to-read pressure gauges. The cylinders and the pump are connected to each other by colored Single or Double Extension Hoses (12) measuring 20 meters. The colors of the hoses match with the colors on the FlowPanel to help prevent incorrect connections.



Features and benefits:

- Set components are up to **50% lighter** than those of similar systems available on the market. The components have **optimally placed grips** and are also easy to assemble and disassemble without the use of extra equipment.
 - Easy to carry, handle, position and assemble all the components by one person
 - Reduces the physical burden
 - Maximum performance at a minimum weight
- 230V electrical pump with a FlowPanel for **accurately regulating the oil flow** to each individual cylinder and controlling the load during lifting and sliding operations.
 - Safe and controlled operations
- Stacking rings which can be **easily placed** around the plunger of the lifting cylinder when **securing** the load.
 - Mechanically holds the load in its position for a longer time period
 - Work safely near and under the load
- Traverse cylinder with an **equal capacity** for both pushing and pulling.
 - Ability to push or pull the vehicle into position, instead of only pushing
- Easily **replaceable** slide bearings both under and in the traverse sled
 - Ensures controlled lateral movements
 - A safer operation with **less stress** on the railway vehicle and the equipment
 - Shorter maintenance times
 - Lighter parts (no steel roller wheels)
- An indicator on the traverse sleds will **alert** the operator to the **traverse limits**.
 - Prevents instability of the railway vehicle and the equipment
- Colored hoses, which match the colors on the FlowPanel.
 - Reduces the chance of incorrect assembly and thus faulty operations

Lifting			
image	description	model	qty
	Telescopic Cylinder	HJ 68/21 H 22	2
	Stacking Ring 50 mm for cylinder HJ 68/21 H **	SR 68/21 - 50 (1)	2
	Stacking Ring 50 mm for cylinder HJ 68/21 H **	SR 68/21 - 50 (2)	2
	Stacking Ring 110 mm for cylinder HJ 68/21 H **	SR 68/21 - 110 (1)	2
	Stacking Ring 110 mm for cylinder HJ 68/21 H **	SR 68/21 - 110 (2)	2
	Fork Stacking Ring for safely place the Stacking Rings	FORK	2

Sliding			
image	description	model	qty
	Long Beam to slide the Sleds on	B 30 - 2200	1
	Short Beam to slide the Sleds on	B 30 - 1100	1
	Connection Set for connecting two Beams to each other	CPS 30	1
	Traverse Sled	TS 232	2
	Sled Fill Plate	SFP 260x50	2
	Adapter Plate for the HJ 68/21 Cylinder to use with the Sled Fill Plate	AP 170x5	2
	Locking Device Rerailing	LDR 30 B	1
	Traverse Strut for connecting the Traverse Sleds to each other	TST 1390-2090	2
	Traverse Cylinder	RTC 12 H 23	1
	Top Plate - Flat for not sliding on the cylinders, but on the Sled (only in combination with Sled Fill Plate)	STP 260x10	2

Operation			
image	description	model	qty
	Vari pump + FlowPanel - operation with manual control valves (knobs) - without synchronization possibility - suitable for connecting 2 Lifting Cylinders and a Traverse Cylinder	12 W 25 D + HMD 4 C	1
	Tool Station, 2500 x 2000 mm PVC coated polyester canvas basis to position tools on	2500 x 2000	1

Connection			
image	description	model	qty
	Double Extension Hose for connecting Traverse Cylinder to pump (black)	RVL 20 DU	1
	Single Extension Hose for connecting Locking Cylinder of Traverse Cylinder to Pump (black)	RVL 20 SU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Orange / black)	RVL 20 DOU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Green / black)	RVL 20 DGU	1

➔ Is this set suitable for your needs, but a slight change would make it more perfect? Contact us, and together we'll adjust the components or compose your own customized Rerailing System!

Advanced set

Holmatro's Advanced Rerailing System set is suitable for railway vehicles with a maximum weight of 181t. The two Telescopic Cylinders (1) each have a capacity of 68t in the first and 21t in the second stage, and a total stroke of 220 and 550 mm to lift the railway vehicle. Both of the cylinders are placed on Traverse Sleds (2), which are located on the Beam (3). The Traverse Sleds are connected to each other by two length-adjustable Traverse Struts (4). Between the Traverse Struts a Traverse Cylinder (5) is located, with a pulling and pushing capacity of 12t. This Traverse Cylinder pushes or pulls the Traverse Sleds over the Beam. In this set, two Beams – 2200 mm and 1100 mm – are included. The Beams are connected to each other by a Connection Set (6).

Mechanical locking is provided by different Stacking Rings (7). With a fork tool (8), the Stacking Rings can be placed safely around the plunger of the Telescopic Cylinders. Sled Fill Plates (9) can be placed under the Telescopic Cylinder if necessary, when spaces between the cylinders and the lifting points need to be filled. The Locking Device (10) will prevent the vehicle from sliding during the lifting.

All of the cylinders are operated by a powerful Quattro pump (11) which sends 4 equal flows to 4 independent manually operated control valves. Operating the control valves simultaneously results in guaranteed uniform cylinder stroke speeds during lifting and lowering, regardless the load they're carrying. Of course, the valves can also be controlled separately to individually operate the cylinders. The actual pressure on each cylinder can be seen on the easy-to-read pressure gauges. The cylinders and the pump are connected to each other by colored Single or Double Extension Hoses (12) measuring 20 meters. The colors of the hoses match with the colors on the pump control panel to help prevent incorrect connections.



Features and benefits:

- Set components are up to **50% lighter** than those of similar systems available on the market. The components have **optimally placed grips** and are also easy to assemble and disassemble without the use of extra equipment.
 - Easy to carry, handle, position and assemble all the components by one person
 - Reduces the physical burden
 - Maximum performance at a minimum weight
- Quattro pump with 4 independent valves and **equal flows** for uniform cylinder stroke speeds (synchronized lifting and lowering), regardless the weight of the load.
 - Safe and more controlled operations
- Stacking rings which can be **easily placed** around the plunger of the lifting cylinder when **securing** the load.
 - Mechanically holds the load in its position for a longer time period
 - Work safely near and under the load
- Lowering valves with an **integrated hose rupture security** feature on each lifting cylinder.
 - Safe and more controlled lowering of the vehicle, regardless of the load on each cylinder
- Ensured safety, because of the load holding function, even in the event of a hose rupture
- Traverse cylinder with an **equal capacity** for both pushing and pulling.
 - Ability to push or pull the vehicle into position, instead of only pushing
- Easily **replaceable** slide bearings both under and in the traverse sled
 - Ensures controlled lateral movements
 - A safer operation with **less stress** on the railway vehicle and the equipment
 - Shorter maintenance times
 - Lighter parts (no steel roller wheels)
- An indicator on the traverse sleds will **alert** the operator to the **traverse limits**.
 - Prevents instability of the railway vehicle and the equipment
- Colored hoses, which match the colors on the pump control panel.
 - Reduces the chance of incorrect assembly and thus faulty operations

Lifting			
image	description	model	qty
	Telescopic Cylinder	HJ 68/21 H 22	2
	Telescopic Cylinder	HJ 68/21 H 55	2
	Stacking Ring 50 mm for cylinder HJ 68/21 H **	SR 68/21 - 50 (1)	2
	Stacking Ring 50 mm for cylinder HJ 68/21 H **	SR 68/21 - 50 (2)	2
	Stacking Ring 110 mm for cylinder HJ 68/21 H **	SR 68/21 - 110 (1)	2
	Stacking Ring 110 mm for cylinder HJ 68/21 H **	SR 68/21 - 110 (2)	8
	Fork Stacking Ring for safely place the Stacking Rings	FORK	2
	Base Plate for Lifting Cylinders HJ 68/21 H 22 & HJ 68/21 H 55	BP 68/21	4

Sliding			
image	description	model	qty
	Long Beam to slide the Sleds on	B 30 - 2200	1
	Short Beam to slide the Sleds on	B 30 - 1100	1
	Connection Set for connecting two Beams to each other	CPS 30	1
	Traverse Sled	TS 232	2
	Sled Fill Plate	SFP 260x50	4
	Adapter Plate for the HJ 68/21 Cylinder to use with the Sled Fill Plate	AP 170x5	2
	Locking Device Rerailing	LDR 30 B	1
	Traverse Strut for connecting the Traverse Sleds to each other	TST 1390-2090	2
	Traverse Cylinder	RTC 12 H 23	1

Sliding			
image	description	model	qty
	Wheel Set Rerailing	WSR 30 B	1
	Top Plate - Flat for not sliding on the cylinders, but on the Sled (only in combination with Sled Fill Plate)	STP 260x10	2

Operation			
image	description	model	qty
	Quattro pump 1 - operation with manual control valves (handles) - with synchronization possibility - suitable for connecting 2 Lifting Cylinders and a Traverse Cylinder	04 Q 50 D + 4MV	1
	Tool Station, 2500 x 2000 mm PVC coated polyester canvas basis to position tools on	2500 x 2000	1

Connection			
image	description	model	qty
	Double Extension Hose for connecting Traverse Cylinder to pump (black)	RVL 20 DU	1
	Single Extension Hose for connecting Locking Cylinder of Traverse Cylinder to Pump (black)	RVL 20 SU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Orange / black)	RVL 20 DOU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Green / black)	RVL 20 DGU	1

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Premium set

Holmatro's Premium Rerailing System set is suitable for railway vehicles with a maximum weight of 339t. Three types of Telescopic Cylinders (1) are provided for lifting the railway vehicle: cylinders with a capacity of 127t in the first and 63t in the second stage, and a total stroke of 500 mm; plus cylinders with a capacity of 68t in the first and 21t in the second stage, and a total stroke of either 200 or 550 mm. Two cylinders – equal models – are placed on the Traverse Sleds (2), which are located on the Beam (3). The Traverse Sleds are connected to each other by two length-adjustable Traverse Struts (4). Between the Traverse Struts a Traverse Cylinder (5) is located, with a pulling and pushing capacity of 12t. This Traverse Cylinder pushes or pulls the Traverse Sleds over the Beam. In this set, two Beams – 2200 mm and 1100 mm – are included. The Beams are connected to each other by a Connection Set (6).

Mechanical locking is provided by different Stacking Rings (7). With a fork tool (8), the Stacking Rings can be placed safely around the plunger of the Telescopic Cylinders. Sled Fill Plates (9) can be placed under the Telescopic Cylinder if necessary, when spaces between the cylinders and the lifting points need to be filled. The Locking Device (10) will prevent the vehicle from sliding during the lifting.

All of the cylinders are operated by a powerful Quattro pump (11) which sends 4 equal flows to 4 independent wirelessly (12) operated control valves. Operating the control valves simultaneously results in guaranteed uniform cylinder stroke speeds during lifting and lowering, regardless the load they're carrying. Of course, the valves can also be controlled separately to individually operate the cylinders. The actual pressure on each cylinder can be seen on the easy-to-read pressure gauges. The cylinders and the pump are connected to each other by colored Single or Double Extension Hoses (13) measuring 20 meters. The colors of the hoses match with the colors on the pump control panel to help prevent incorrect connections.



Features and benefits:

- Set components are up to **50% lighter** than those of similar systems available on the market. The components have **optimally placed grips** and are also easy to assemble and disassemble without the use of extra equipment.
 - Easy to carry, handle, position and assemble all the components by one person
 - Reduces the physical burden
 - Maximum performance at a minimum weight
- Quattro pump with 4 independent valves and **equal flows** for uniform cylinder stroke speeds (synchronized lifting and lowering), regardless the weight of the load.
 - Safe and more controlled operations
- A wireless remote control can be used to operate the electromagnet valves (optional).
 - Ensures the operator is mobile and **free to move** around the railway vehicle
 - The pump does not need to be situated in the vicinity of the railway, but can remain in the recovery vehicle if necessary
- Stacking rings which can be **easily placed** around the plunger of the lifting cylinder when **securing** the load.
 - Mechanically holds the load in its position for a longer time period
 - Work safely near and under the load
- Lowering valves with an **integrated hose rupture security** feature on each lifting cylinder.
 - Safe and more controlled lowering of the vehicle, regardless of the load on each cylinder
 - Ensured safety, because of the load holding function, even in the event of a hose rupture
- Traverse cylinder with an **equal capacity** for both pushing and pulling.
 - Ability to push or pull the vehicle into position, instead of only pushing
- Easily **replaceable** slide bearings both under and in the traverse sled
 - Ensures controlled lateral movements
 - A safer operation with **less stress** on the railway vehicle and the equipment
 - Shorter maintenance times
 - Lighter parts (no steel roller wheels)
- An indicator on the traverse sleds will **alert** the operator to the **traverse limits**.
 - Prevents instability of the railway vehicle and the equipment
- Colored hoses, which match the colors on the pump control panel.
 - Reduces the chance of incorrect assembly and thus faulty operations

Lifting			
image	description	model	qty
	Telescopic Cylinder	HJ 68/21 H 22	2
	Telescopic Cylinder	HJ 68/21 H 55	2
	Telescopic Cylinder	HJ 127/63 H 50	2
	Stacking Ring 50 mm for cylinder HJ 68/21 H **	SR 68/21 - 50 (1)	2
	Stacking Ring 50 mm for cylinder HJ 68/21 H **	SR 68/21 - 50 (2)	2
	Stacking Ring 110 mm for cylinder HJ 68/21 H **	SR 68/21 - 110 (1)	2
	Stacking Ring 110 mm for cylinder HJ 68/21 H **	SR 68/21 - 110 (2)	8
	Stacking Ring 50 mm for cylinder HJ 127/63 H 50	SR 127/63 - 50 (1)	2
	Stacking Ring 50 mm for cylinder HJ 127/63 H 50	SR 127/63 - 50 (2)	2
	Stacking Ring 100 mm for cylinder HJ 127/63 H 50	SR 127/63 - 100 (1)	2
	Stacking Ring 100 mm for cylinder HJ 127/63 H 50	SR 127/63 - 100 (2)	6
	Fork Stacking Ring for safely place the Stacking Rings	FORK	2
	Base Plate for Lifting Cylinders HJ 68/21 H 22 & HJ 68/21 H 55	BP 68/21	4
	Base Plate for Lifting Cylinder HJ 127/63 H 50	BP 127/63	2

Sliding			
image	description	model	qty
	Long Beam to slide the Sleds on	B 30 - 2200	1
	Short Beam to slide the Sleds on	B 30 - 1100	1
	Connection Set for connecting two Beams to each other	CPS 30	1
	Traverse Sled	TS 232	2
	Sled Fill Plate	SFP 260x50	4
	Adapter Plate for the HJ 68/21 Cylinder to use with the Sled Fill Plate	AP 170x5	2

Sliding			
image	description	model	qty
	Locking Device Rerailing	LDR 30 B	1
	Traverse Strut for connecting the Traverse Selds to each other	TST 1390-2090	2
	Traverse Strut for connecting the Traverse Selds to each other	TST 1990-3090	2
	Traverse Cylinder	RTC 12 H 23	1
	Wheel Set Rerailing	WSR 30 B	1
	Top Plate - Flat for not sliding on the cylinders, but on the Sled (only in combination with Sled Fill Plate)	STP 260x10	2

Operation			
image	description	model	qty
	Quattro pump 3 - operation with electrical valves (push buttons on wireless remote control) - with synchronization possibility - suitable for connecting 4 Lifting Cylinders and a Traverse Cylinder	04 Q 50 D + 6EWLRC	1
	Tool Station, 2500 x 2000 mm PVC coated polyester canvas basis to position tools on	2500 x 2000	1

Connection			
image	description	model	qty
	Double Extension Hose for connecting Traverse Cylinder to pump (black)	RVL 20 DU	1
	Single Extension Hose for connecting Locking Cylinder of Traverse Cylinder to Pump (black)	RVL 20 SU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Orange / black)	RVL 20 DOU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Green / black)	RVL 20 DGU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Red / black)	RVL 20 DRU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Blue / black)	RVL 20 DBU	1

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Lifting components

Cylinders

Telescopic Cylinders are used for lifting the railway vehicle. Before selecting the cylinders, it's important to know the weight of the railway vehicle and the stroke you need.



Cylinders				
model		HJ 68/21 H 22	HJ 68/21 H 55	HJ 127/63 H 50
max. working pressure	bar / Mpa	550 / 55	550 / 55	550 / 55
stroke 1st plunger	mm	110	275	250
stroke 2nd plunger	mm	110	275	250
closed height	mm	240	440	460
capacity 1st plunger	kN/t	657 / 67	657 / 67	1249 / 127.4
capacity 2nd plunger	kN/t	212 / 21.6	212 / 21.6	622 / 63.4
return type		hydraulic	hydraulic	hydraulic
material		aluminium	aluminium	aluminium
weight, ready for use	kg	24.6	44	85

Base Plates

Base Plates are used under the lifting cylinders for lifting the railway vehicle on the ground, instead of on the Beam.

Base plates				
image	description	model	suitable for cylinder	weight, ready for use kg
	Base Plate for Lifting Cylinders	BP 68/21	HJ 68/21 H **	4.7
	Base Plate for Lifting Cylinders	BP 127-63	HJ 127/63 H 50	4.4

Stacking Rings

Stacking Rings can be easily placed around the plunger of the Telescopic Cylinders and are used for the mechanical securing of the railway vehicle, when the vehicle has to hold its position for a longer time period.

Stacking rings					
image	description	model	suitable for cylinder	filling height mm	weight, ready for use kg
	Stacking Ring 50 mm	SR 68/21 - 50 (1)	HJ 68/21 H **	50	1.6
	Stacking Ring 50 mm	SR 68/21 - 50 (2)	HJ 68/21 H **	50	0.9
	Stacking Ring 110 mm	SR 68/21 - 110 (1)	HJ 68/21 H **	110	3.1
	Stacking Ring 110 mm	SR 68/21 - 110 (2)	HJ 68/21 H **	110	2.9
	Stacking Ring 50 mm	SR 127/63 - 50 (1)	HJ 127/63 H **	50	2.9
	Stacking Ring 50 mm	SR 127/63 - 50 (2)	HJ 127/63 H **	50	2.4
	Stacking Ring 100 mm	SR 127/63 - 100 (1)	HJ 127/63 H **	100	4.8
	Stacking Ring 100 mm	SR 127/63 - 100 (2)	HJ 127/63 H **	100	4.3
	Fork Stacking Ring for safely place the stacking rings	FORK	-	-	0.6




description	model	Basic set	Advanced set	Premium set
Telescopic Cylinder	HJ 68/21 H 22	2*	2	2
Telescopic Cylinder	HJ 68/21 H 55		2	2
Telescopic Cylinder	HJ 127/63 H 50			2
Base Plate for Lifting Cylinders	BP 68/21		4	4
Base Plate for Lifting Cylinders	BP 127/63			2
Stacking Ring	SR 68/21 - 50 (1)	2	2	2
Stacking Ring	SR 68/21 - 50 (2)	2	2	2
Stacking Ring	SR 68/21 - 110 (1)	2	2	2
Stacking Ring	SR 68/21 - 110 (2)	2	8	8
Stacking Ring	SR 127/63 - 50 (1)			2
Stacking Ring	SR 127/63 - 50 (2)			2
Stacking Ring	SR 127/63 - 100 (1)			2
Stacking Ring	SR 127/63 - 100 (2)			6
Fork Stacking Ring	FORK	2	2	2

* The cylinders in the Basic set do not have the lowering valves, but have an integrated hose rupture security feature.

Sliding components

Beams

Choose the number of Beams based on the max. derailing distance of the train.

Beams				
image	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Long Beam to slide the Sleds on	B 30 - 2200	2200 x 350 x 140	62.4
	Short Beam to slide the Sleds on	B 30 - 1100	1100 x 350 x 140	32.7
	Connection Set for connecting two Beams to each other	CPS 30	-	30.4

Traverse Sleds





The Traverse Set will facilitate side movements (perpendicular to the rails).

Main specifications:

- Max. load to be transported: 120 t
- Max. total load per sled over the Beam: 60 t
- Max. total height: 250 mm
- Adjustment range TST 1390-2090: 1390 mm to 2090 mm
- Adjustment range TST 1990-3090: 1990 mm to 3090 mm


Use the Sled Fill Plates to increase the height of the Traverse Sleds (for the HJ 68/21 Cylinder, an Adapter Plate is needed)

Use a Locking Device to mechanically lock the Traverse Sleds.

Traverse Sled				
image	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Traverse Sleds	TS 232	450 x 400 x 120	24.0
	Sled Fill Plate	SFP 260x50	Ø260 x 50	2.7
	Adapter Plate for the HJ 68/21 Cylinder to use with the Sled Fill Plate	AP 170x5	Ø170 x 5	23.2
	Locking Device Rerailing Max. Horizontal displacement: 230 mm	LDR 30 B	-	5.0


Traverse Struts

The Traverse Struts are needed to connect the Traverse Sleds to each other. Choose the length of the Traverse Strut based on the necessary distance between the lifting points.



Traverse Struts			
image	description	model	weight, ready for use kg
	Traverse Strut for connecting the Traverse Sleds to each other	TST 1390-2090	15.0
	Traverse Strut for connecting the Traverse Sleds to each other	TST 1990-3090	33.0

Traverse Cylinder

A Traverse Cylinder is used for the horizontal movement (pushing and pulling) of the vehicle. The hydraulic unlocking of the cylinder is located inside of the device.

Traverse Cylinder			
image	model	RTC 12 H 23	
	max. working pressure	bar / Mpa	550 / 55
	tonnage	t	12
	stroke	mm	230
	closed height	mm	593
	capacity (press)	kN/t	118 / 12
	capacity (retract)	kN/t	118 / 12
	return type		hydraulic
	material		steel
	weight, ready for use	kg	17.0

Sliding Accessories

Sliding Accessories				
image	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Wheel Set Rerailing For easy movement of the Beams to their location.	WSR 30 B		12
	Top Plate Used on each Traverse Sled to ensure there is no sliding on the lifting cylinders, but only on the Traverse Sleds (only in combination with the Sled Fill Plates).	STP 260x10	Ø260x50	3.3

description	model	Basic set	Advanced set	Premium set
Long Beam	B 30 - 2200	1	1	1
Short Beam	B 30 - 1000	1	1	1
Connection Set	CPS 30	1	1	1
Traverse Sled	TS 232	2	2	2
Sled Fill Plate	SFP 260x50	2	4	4
Adapter Plate	AP 170x5	2	2	2
Locking Device Rerailing	LDR 30 B	1	1	1
Traverse Strut	TST 1390-2090	2	2	2
Traverse Strut	TST 1990-3090			2
Traverse Cylinder	RTC 12 H 23	1	1	1
Wheel Set Rerailing	WSR 30 B		1	1
Top Plate	STP 260x10	2	2	2

Operation components

Pumps

Holmatro provides different pumps for operating the lifting cylinders and traverse cylinder of the Rerailing System. Pump differences are in terms of the accuracy of synchronization, flexibility and usability.



Pumps					
model	12 W 25 D + HMD 4 C	04 Q 50 D + 4MV	04 Q 50 D + 4EVWRC	04 Q 50 D + 6EVWLRC	
description	Vari pump + FlowPanel	Quattro pump 1	Quattro pump 2	Quattro pump 3	
max. working pressure	bar / Mpa	550 / 55	550 / 55	550 / 55	
number of outputs		4	6	6	
number of stages		2	2	2	
first stage output / min.	cc	3200 (x1)	1100 (x4)	1100 (x4)	
second stage output / min.	cc	1200 (x1)	400 (x4)	400 (x4)	
engine		230 VAC - 1.5 kW - 50 Hz - 1 Ph	230 VAC - 2.2 kW - 50 Hz - 1 Ph	230 VAC - 2.2 kW - 50 Hz - 1 Ph	
dimensions (lxwxh)	mm	500 x 525 x 910	850 x 705 x 1250	700 x 570 x 1070	
weight, ready for use	kg	115	215	230	

Additional information

Vari pump + FlowPanel

- Operation is with manual control valves (knobs)
- No synchronization possibility
- Suitable for connecting 2 Lifting Cylinders and a Traverse Cylinder

Quattro pump 1

- Operation is with manual control valves (handles)
- With a synchronization possibility
- Suitable for connecting 2 Lifting Cylinders and a Traverse Cylinder

Quattro pump 2

- Operation is with electrical valves (push buttons on a wired remote control)
- With a synchronization possibility
- Suitable for connecting 4 Lifting Cylinders and a Traverse Cylinder

Quattro pump 3

- Operation is with electrical valves (push buttons on a wireless remote control)
- With a synchronization possibility
- Suitable for connecting 4 Lifting Cylinders and a Traverse Cylinder

Operation Accessories

The Tool Station is used to store all tools in an organized way.

Operation Accessories		
image	description	model
	Tool Station	2500 x 2000

description	model	Basic set	Advanced set	Premium set
Vari pump + FlowPanel	12 W 25 D + HMD 4 C	1		
Quattro pump 1	04 Q 50 D + 4MV		1	
Quattro pump 3	04 Q 50 D + 6EVWLRC			1
Tool Station	2500 x 2000	1	1	1

Connection components

Hoses

Holmatro provides different hydraulic hoses needed for connecting the lifting cylinders and the traverse cylinder to the pump unit.

Hose types			
image	description	model	qty
	Double Extension Hose for connecting Traverse Cylinder to pump (black)	RVL 20 DU	1
	Single Extension Hose for connecting Locking Cylinder of Traverse Cylinder to Pump (black)	RVL 20 SU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Orange / black)	RVL 20 DOU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Green / black)	RVL 20 DGU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Red / black)	RVL 20 DRU	1
	Double Extension Hose for connecting Lifting Cylinders to pump (Blue / black)	RVL 20 DBU	1

description	model	Basic set	Advanced set	Premium set
Double Extension Hose	RVL 20 DU	1	1	1
Single Extension Hose	RVL 20 SU	1	1	1
Double Extension Hose	RVL 20 DOU	1	1	1
Double Extension Hose	RVL 20 DGU	1	1	1
Double Extension Hose	RVL 20 DRU			1
Double Extension Hose	RVL 20 DBU			1

Also available

Optional products	
image	description
	Lifting cylinder with different capacities and/or stroke lengths
	Traverse Cylinders with other capacities
	Pumps with different engines (petrol/diesel) and/or flow speeds
	Hoses with different colors and/or lengths
	Rail hook for pushing the vehicle onto the rail track
	Aluminium cylinders
	Mechanical Jacks
	Lifting bags
	Chocks & blocks
	Hand and foot pumps
	Hose reels (manual & electric)

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About Holmatro

Industrial Equipment

Feel the power

Holmatro industrial tools offer flexible, implementation-oriented and controllable power, from 5 - 1500 tons. We develop, manufacture and test superior quality hydraulic tools for a wide variety of industrial applications. Products that are combined with digital operating technologies also form the basis for a wide spectrum of advanced industrial solutions.

Innovation

Our experience with high-pressure hydraulics enables us to push the boundaries of what is technically possible. This results in lighter, more compact, durable and user friendly tools.

Expertise & quality

Our focus is on high-pressure hydraulics and our sole purpose is to manufacture superior quality tools. Quality is therefore key across the entire logistics chain.

Clean & high-tech production

Holmatro tools are manufactured and assembled in high-tech production environments, often with the assistance of robots. We follow extremely stringent rules and procedures with a view to a clean environment.

200% tested

After production or repair, an assembly technician tests all our tools. They subsequently undergo an additional test in the Quality Control department. This gives you 200% certainty.

Support & safety

Clients choose Holmatro for life. We therefore provide support during the entire life span of our products. Our comprehensive certification program ensures that you can use our tools safely.

Maintenance

Thanks to comprehensive knowledge of the entire life span of our products, we can provide you with optimal maintenance advice. Regular maintenance ensures reliable operation and a longer life span for your tools. Spare parts are always available.

Hallmarks

Innovation, quality and service are at the heart of our company philosophy. All of our products meet the most stringent inspection regulations.



(Inter)national sales network

Our experience of many years and in-house engineering enable us to provide you with expert advice on both our products and applications. Our sales organization and dealers - fully trained in our own training center - guarantee the same Holmatro standard of quality.

Holmatro is a multinational organization consisting of a group of companies operating in 5 different countries.



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