

HYDRAULIC SOLUTIONS FOR RERAILING

Powering Innovation





POWERING INNOVATION

Holmatro Hydraulic Solutions is at the forefront of innovation in high-pressure hydraulic tools, systems, and services. Our strong legacy & dedication to excellence allow us to understand our customers' needs. Drive the transition to green energy, enable civil engineering companies to build roads, bridges, or move buildings, and help to place trains back on track, reduce downtime for production facilities & make working with high-pressure hydraulics safer. For all these applications and more, we deliver solutions that enhance our clients' efficiency, safety, and performance.

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HOLMATRO RERAILING SYSTEMS

Powering Innovation for Hydraulic Solutions is our DNA

Almost 60 years of developing, engineering & producing for both high-pressure Industrial en Rescue applications drew us to the world of rerailling a decade ago.

Our main goal was clear: to develop a lighter, faster system for high-stakes safety and downtime situations, without compromising durability or operator safety. So, how did we achieve this?

We teamed up with experts in the field to combine our knowledge with field experience and needs, leading to the Launch of the Holmatro Rerailling System at Innотrans 2016.

Only ten years later, we are proud to have a proven track record of delivering our Rerailling Solutions for Trains, Metros, and Trams. From the Netherlands to Australia, the United States, Spain, China, Thailand, and many countries in between.

And the journey has just begun! As we continue to develop the next generation of rerailling solutions, we remain committed to delivering safer, faster, and smarter solutions for railway operators worldwide.

POWERING INNOVATION, ON EVERY TRACK



DISCOVER OUR RERAILING SYSTEM



SAFE

When working in demanding circumstances and time is of the essence, you want to ensure a safe work environment above all.

- To increase stability and safety, we use **stacking rings** when the cylinders are extracted:
 - Easy to safely place around the plunger of the lifting cylinder
 - Mechanically locks the load in position for a longer time
 - Enabling you to work safely near and under the load
- Easy replaceable **slide bearings** *both under and in* the traverse sled; a safer operation with less stress on the railway vehicle and the equipment. No steel wheel rollers needed: decreasing maintenance & weight.
- An **indicator** on the traverse sleds will alert the operator to the traverse limits, preventing instability of the railway vehicle and the equipment
- Colored hoses & matching colors on the outlets of the pump unit and/or control table; reduces the possibility of incorrect assembly *and thus faulty operations*
- **Load lowering valves** on each cylinder, ensuring lowering is possible in a controlled manner without the load having any influence on lowering
- Integrated **hose rupture security feature** in the lowering valves on each lifting cylinder; ensures safety, because of the load holding function, *even in the event of a hose rupture*.



CONTROLLED

Working with high-pressure hydraulics requires great responsibility. Holmatro high-pressure hydraulic systems are designed to offer you controlled power.

- We offer a wireless, remote-controlled pump unit; no need to carry out a heavy, noisy pump unit into the field.
- Our traverse cylinder carries an **equal capacity for both pushing and pulling**, enabling you to both *push and pull* the vehicle into position, usable in any position & either direction.
- Inside the **traverse sleds**, you will find an additional internal sled, compensating for the radius the train makes, working with less **or even without repositioning** of the system during operation.

- An **indicator** on the traverse sleds will alert the operator to the traverse limits. This prevents the instability of the railway vehicle and the equipment.
- **Sled fill plates** are used to place the cylinder closer to the lifted object and not lose stroke of the plunger to reach it.
- **Adapter plates** are used to position the cylinder directly at the center of the traverse sled or filling plate.
- Finally, we added a **locking device**. Should you work in a sloped position, this device prevents the system from shifting downwards and therefore prevents the creation of an unsafe situation.



FAST

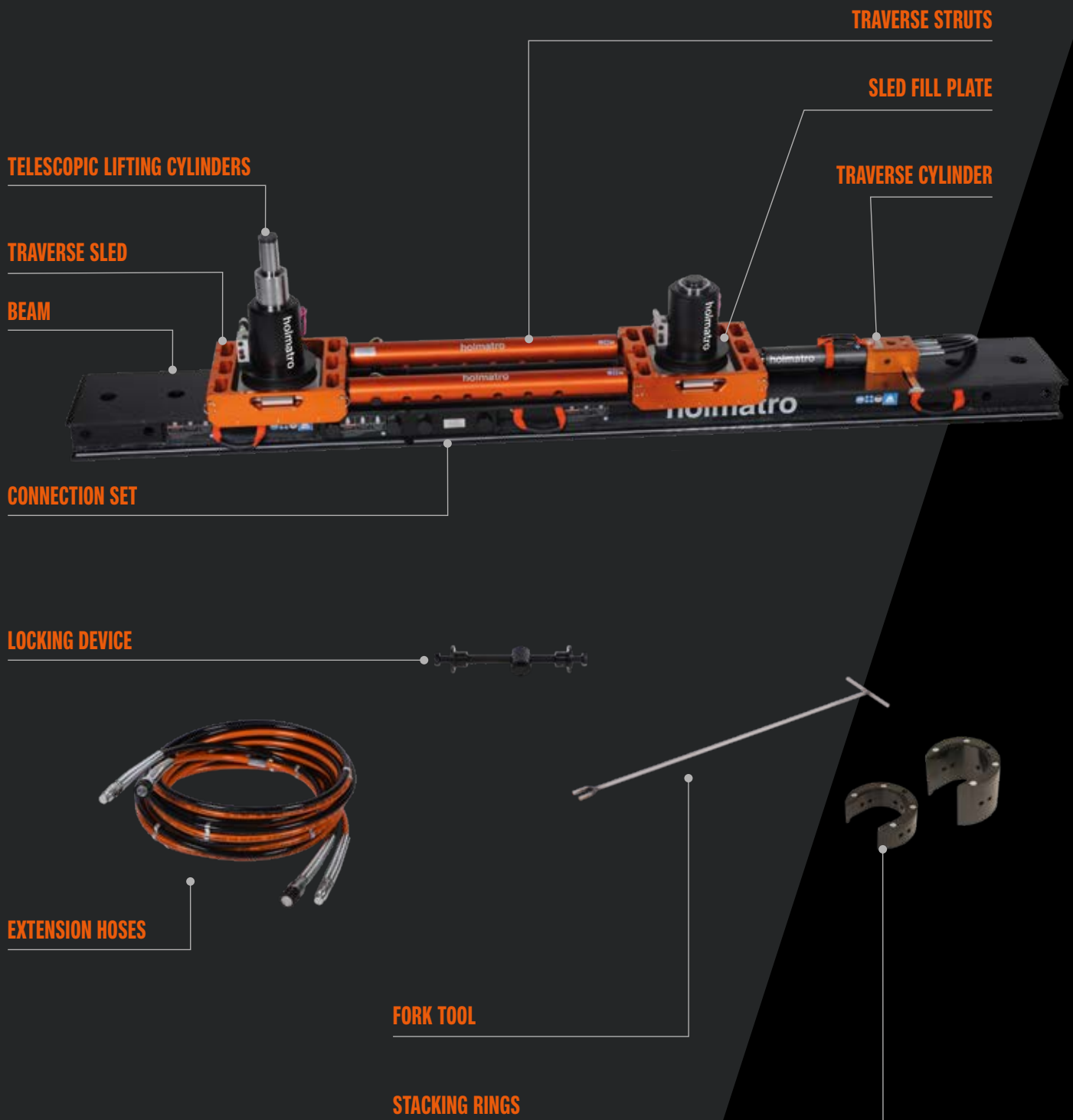
A system with maximum performance, at a minimum weight, without compromising on safety & durability.

Holmatro rerailing cylinders are fully made of aluminum; this makes them sufficiently lighter and way easier to carry (by 1 or 2 persons).

- Fully aluminum beams: lightweight & easy to carry. With the connecting set, you can connect different lengths of beams without the use of special or additional tools.
- Our traverse sleds contain sliding bearings made of low-friction Teflon-like **material** (UHMWPE), and do not have steel wheel rollers, so you will experience:
 - **Less friction**
 - **A huge weight reduction**
 - **Less chance of damaging the beams.**
 - **Less maintenance**
- Our traverse struts are fully made of aluminum, and thus lightweight distance bars are used to keep the sleds in position
- Since the traverse sleds have sliding bearings, decreasing friction, **you can work with a lower capacity traverse cylinder, resulting in a lighter cylinder.** With the Holmatro system, *only a 12-ton traverse cylinder* is required.
- All system components have optimally placed grips; easy to carry, by just 1 or 2 people, and easy to assemble and disassemble without the use of any extra equipment.

HOLMATRO RERAILING SYSTEMS

Components



TWIN PUMP

CONTROL TABLE

QUATTRO PUMP

WIRELESS REMOTE CONTROL UNIT



Also available: Petrol pump



HOW TO COMPOSE YOUR RERAILING SYSTEM?

Our team is ready to support you in choosing the right set-up for your railway application!

The questions below can help you choose products in which we offer several options, like your Telescopic Lifting Cylinders, Beams, Struts, and Pump and/or Control Table.



STEP 1

To determine if a rerailing system is required or if a Compact Rerailing Unit is sufficient:

- What type of vehicle is the application?
 - a. Tram: Compact rerailing System is sufficient
 - b. Metro: depending on tonnage of the Vehicle, Compact rerailing can be sufficient (up to 46 Ton)
 - c. Train: Compact Rerailing is not an option



Holmatro offers **four Telescopic Lifting Cylinders** because two independent design variables need to be matched to the recovery task:

1. **Lifting capacity** (80/28 vs. 127/53)
2. **Lifting stroke** (H20 vs. H45)



STEP 2

To select your required Telescopic Lifting Cylinders (tonnage, stroke & closed height)

- What is the weight (tonnage) of the Railway Vehicle?
- What is the minimum required closed height (after derailing) between lifting point and ground level?
- Where are the lifting points situated on the vehicle?



STEP 3

To select your Beams:

- What is the maximum given distance from the rail when the train/ metro is derailed?
- What is the width of the railway tracks?



We offer you 3 beam lengths & 2 beam heights. Different lengths can be combined with a plug & play connection set.



STEP 4

To select your Struts:

- What is the width between the lifting points of the train/metro?



STEP 5

To select your preferred Control Pump:

- What is the preferred way to control the system, thus your whole Rerailing operation:
- Remote with ultimate freedom of movement and no need to place the pump close to the situation
- By means of a control table + separate pump, both positioned close to the situation

The remaining system components required are the same for any train or metro set-ups. Required additional products for either a working system or additional safety are pointed out on the products pages.

Scan the QR-code
to request a quotation
or more information.





LIFTING & SLIDING COMPONENTS

The Lifting & Sliding components are the core elements of a Hydraulic Rerailing System. Designed to put a derailed train, tram, or metro back on track in a safe and controlled way, using synchronized hydraulic technology.



VANCK
JALME

holmatro

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ALUMINUM TELESCOPIC LIFTING CYLINDERS

HATC



Holmatro Telescopic Rerailing Cylinders can reach long lifting distances while maintaining a compact closed height.

Holmatro operates with a maximum working pressure of **550 bar, allowing us to design smaller, more compact, and lighter cylinders** that maintain the same capacity. The cylinders are constructed entirely of black anodized aluminum, making them significantly lighter and easier (for a single person) to carry around.

A key feature of this cylinder is the **load-lowering valve**, which ensures the vehicle/load can be lowered in a controlled manner without being affected by the load's weight. Additionally, these telescopic cylinders are equipped with a **hose-rupture safety mechanism** that immediately halts the system in case of hose rupture.



Make sure to choose the right Cylinders for your vehicles. Our team is available to support you and/or check the questionnaire on page 5.

Features & benefits

- Fully made of lightweight aluminum.
- Max working pressure of 550 bar: compact, ergonomic design
- Equipped with a 'load-lowering valve.'
 - Ensures a controlled lowering, regardless of the load.
 - Without this valve, the load could drop too quickly, creating unsafe situations.
- Including 'hose rupture safety.'
- Integrated in the lowering valves on each lifting cylinder; ensured safety, because of the load holding function, even in the event of a hose rupture.

Standard supplied with

- Flat face couplers: dust cap function incorporated.
- Load-lowering valve.
- Optimally placed grips; easy to carry, by just 1 or 2 persons.



HATC 80/28 H 20



HATC 80/28 H 45



HATC 127/53 H 20



HATC 127/53 H 45

specifications		HATC 80/28 H 20	HATC 80/28 H 45	HATC 127/53 H 20	HATC 127/53 H 45
art no		101.001.175	101.001.174	101.001.173	101.001.172
req. pcs		2	2	2	2
max. working pressure	bar/Mpa	550 / 55	550 / 55	550 / 55	550 / 55
tonnage	t	80 / 28	80 / 28	127 / 53	127 / 53
stroke	mm	200	450	200	450
closed height	mm	250	387	265	420
capacity 1st stage	kN/t	787 / 80.3	787 / 80.3	1248 / 127.3	1248 / 127.3
capacity 2nd stage	kN/t	276 / 28.2	276 / 28.2	523 / 53.3	523 / 53.3
required oil content (eff.)	cc	1864	4287	3128	7206
connection		flatface	flatface	flatface	flatface
cylinder type		telescopic	telescopic	telescopic	telescopic
return type		hydraulic	hydraulic	hydraulic	hydraulic
material		aluminium	aluminium	aluminium	aluminium
plunger ø 1st stage	mm	115	115	150	150
plunger ø 2nd stage	mm	70	70	90	90
weight, ready for use	kg	19.0	27.0	30.0	44.5

STACKING RINGS

For HATC



Mechanical locking of your Telescopic Lifting Cylinders HATC

The stacking rings are placed on top of the Cylinder, providing mechanical locking of the load or vehicle and allowing operators to work safely underneath an elevated load. Use the fork to place the stacking rings on the cylinder from a safe distance.

Features & benefits

- Lightweight aluminum
- Mechanically locks the load in position for a longer time.
- Enabling you to work safely near and under the load.

Required accessory

- Fork

stacking rings	description	model	suitable for cylinder	filling height mm	weight, ready for use kg	req. pcs	art no
	Stacking ring 50 mm	SR 80/28 - 50	HATC 80/28 H **	50	1.3	2	101.001.624
	Stacking ring 100 mm	SR 80/28 - 100	HATC 80/28 H **	100	2.5	8	101.001.625
	Stacking ring 50 mm	SR 127/53 - 50	HATC 127/53 H **	50	1.8	2	101.001.626
	Stacking ring 100 mm	SR 127/53 - 100	HATC 127/53 H **	100	3.5	8	101.001.627
	Fork stacking ring for safely place the stacking rings	FORK	-		0.6	2	101.001.628

PLATES & STABILIZING FEET

For your Cylinders HATC & Sleds



To maximize stability and safety, we offer a range of plates & stabilizing feet. Every setup is different, so each option is designed for a specific operational need.

base plates

Base plates are used **when working directly from the ground, stacking wood**. Our Base Plates are intentionally separated from our cylinders, providing a secure, more stable foundation for your entire system and load.

base plates	description	model	suitable for cylinder	weight, ready for use	req. pcs	art no
				kg		
	Base plate for Telescopic Lifting Cylinders	BP 80/28	HATC 80/28	4.7	2	101.001.087
	Base plate for Telescopic Lifting Cylinders	BP 127/53	HATC 127/53	4.4	2	101.001.088

adaptor plates

Adapter Plates **fill out the diameter of the traverse sled**, ensuring a stable and safe system set-up.

adaptor plates	description	model	suitable for cylinder	weight, ready for use	req. pcs	art no
				kg		
	Adapter plate for Telescopic Lifting Cylinders	AP 80/28	HATC 80/28	3.2	2	101.001.926

stabilizing feet

By adding a stabilization foot, you **increase the diameter and footprint** of your **HATC 80/28 cylinders**, thereby enhancing stability.

stabilizing feet	description	model	suitable for cylinder	req. pcs	art no
	Stabilizing foot for Telescopic Lifting Cylinders	SF 80/28	HATC 80/28	2	101.001.302

sled fill plates

Sometimes, a situation arises **where you would like to extend your cylinder height**. For safety and stability, Holmatro always advises **extending your cylinders from the bottom**. The larger surface area at the base provides greater stability, while extending cylinders on the plunger increases the risk of buckling.



For the telescopic Cylinders HATC 80/28, adapter plates are required.



When the load/vehicle is not placed on the cylinders, but directly on the traverse sled + Sled Fill Plates, a top plate is required!

sled fill plates	description	model	dimensions (lxwxh)	weight, ready for use	req. pcs	art no
			mm	kg		
	Sled fill plate	SFP 260x50	Ø 260 x 50	2.7	2	100.002.804

sled top plates

When not **sliding (traversing)** on the cylinders, but **directly on the traverse sled**, a top plate is required! The Sled Top Plates is places on top of the Sled Fill plates for protection & safety.

sled top plates	description	model	dimensions (lxwxh)	weight, ready for use	req. pcs	art no
			mm	kg		
	Top plate	STP 260x10	Ø 250 x 10	3.3	2	100.002.829

BEAMS



The rerailing beam, also known as the bridge, is essential for every Rerailing System. It supports the weight of the load & enables the lateral movement of the load.

Holmatro chooses to manufacture the beams entirely from black anodized aluminum, significantly reducing weight and optimizing operational processes in the field. Furthermore, extrusion as a production method prevents warping of the metal during welding.

With the **connection set**, you can easily connect different beams without the use of special or additional tools.



Choose the length and/or number of beams based on the max. rerailing distance of the railway vehicle. Our team is available to support you and/or check the questionnaire on page 5.

Features & benefits

- Fully aluminum; lightweight.
- Easy to carry & to position underneath the load.
- Extruded to avoid warping during welding.
- Smart connection: connect multiple (smaller, lighter) beams.

Standard supplied with

- Optimally placed grips; easy to carry

Required accessory

- Connection set

Optionally available

- Wheel set: add extra ergonomics to your operations

BEAMS

beams	description	model	dimensions (l x w x h)	weight, ready for use	art no
			mm	kg	
	Beam	B 30 - 1100	1100 x 350 x 140	32.7	100.002.916
	Beam	B 30 - 2200	2200 x 350 x 140	62.4	100.002.915
	Beam	B 30 - 3300	3300 x 350 x 140	93.6	101.000.345

low beams	description	model	dimensions (l x w x h)	weight, ready for use	art no
			mm	kg	
	Low Beam	B 12.5 - 1100	1100 x 350 x 85	21.2	101.001.051
	Low Beam	B 12.5 - 2200	2200 x 350 x 85	41.5	101.001.052
	Low Beam	B 12.5 - 3300	3300 x 350 x 85	71.5	101.001.053

connection sets	description	model	dimensions (l x w x h)	weight, ready for use	art no
			mm	kg	
	Beam Connection Set	CPS 30	-	30.4	101.002.939
	Low Beam Connection Set	CPS 12.5	-	14.2	101.001.077

wheel set	description	model	dimensions (l x w x h)	weight, ready for use	art no
			mm	kg	
	Wheel Set Rerailing	WSR 30 B	-	12.0	100.002.865

TRAVERSE SLED

Smart
indicator



The **traverse sleds**, also known as carriages, facilitate the side movement required for rerailing the derailed vehicle and are used underneath the lifting point. Holmatro traverse sleds are equipped with a **Teflon-like sliding bearing underneath**, ensuring smooth sliding and reducing the risk of beam damage. Advantages of this material include **reduced maintenance, lower friction, and weight reduction**, making the sleds easy to manage and carry.

Inside the sled, there is an additional internal sled with the same sliding bearings underneath. This internal sled compensates for the radius made by the railway vehicle when putting it back on track. It also includes **an indicator, visually signaling the end of the stroke when using the internal sled**. This feature alerts the operator to the traverse limits, preventing instability of the railway vehicle and the equipment.

Since the traverse sleds have sliding bearings, decreasing friction, **you can work with a lower-capacity traverse cylinder, resulting in a lighter cylinder**. With the Holmatro system, only a **12-ton traverse cylinder** is required.

Features & benefits

- Slide bearings made of low-friction Teflon-like material (UHMWPE) offer:
 - Less friction
 - Significant weight reduction
 - Reduced risk of beam damage
 - Lower maintenance
- With these sliding bearings reducing friction, a lower capacity, lighter 12-ton traverse cylinder is sufficient.
- An indicator on the traverse sled alerts the operator to traverse limits, preventing instability of the railway vehicle and equipment.

Standard supplied with

- Optimally placed grips; easy to carry, by just 1 or 2 persons.

Required accessory

- Locking device: to mechanically lock your traverse sleds & create additional safety

Combine with

- Sled Fill Plates: page 12
- Sled Top Plates: page 12

traverse sled	description	model	dimensions (lxwxh)	weight, ready for use	req. pcs	art no
			mm	kg		
	Traverse sleds	TS 232	450 x 400 x 120	24.0	2	100.002.799
	Locking device rerailing Max. horizontal displacement: 230 mm	LDR 30 B	-	5.0	1	100.002.869

TRAVERSE STRUTS



The **traverse struts, distance bars**, are used to maintain a consistent distance between the two traversing sleds, ensuring safety & control during operations.

The Holmatro traversing struts come in **two different lengths** to accommodate different applications and needs. **Final adjustments** can be made by simply removing a pin. For precise final adjustments, the operator can utilize the **threaded section on the bar**.

The struts are **fully made from aluminum**, ensuring they are lightweight and easy to handle. For **stability and safety reasons**, Holmatro applies two traversing struts/bars.

Features & benefits

- Holds the distance between sleds, keeping the Telescopic Lifting cylinders positioned underneath the lifting points.
- Available in two different lengths to meet all requirements.
- Fully made of aluminum; lightweight

Standard supplied with

- *Additional* screw thread for final length adjustment, up to 10 cm

traverse struts	description	model	weight, ready for use	req. pcs	art no
kg					
	Traverse strut for connecting the traverse sleds to each other	TST 1390-2090	15.0	1 (= set)	100.002.809
	Traverse strut for connecting the traverse sleds to each other	TST 1990-3090	33.0	1 (= set)	100.003.116

- Adjustment range TST 1390-2090: 1390 mm to 2090 mm
- Adjustment range TST 1990-3090: 1990 mm to 3090 mm

TRAVERSE CYLINDER



The Traversing Cylinder is used for the horizontal movement of the vehicle. **Our double-acting traversing cylinder carries an equal capacity for both pushing and pulling, enabling you to both push and pull the vehicle into position, usable in any position & either direction.**

Thanks to the **sliding bearings with reduced friction** underneath the Holmatro traversing sled, less force is needed, resulting in a traversing cylinder requiring **only 12 tons, where other available systems required at least 17 tons.**

Another unique feature of the Traversing cylinder is the unlocking cylinder, which can be remotely unlocked when moving to the next stroke. This **eliminates the need for an operator to go underneath a lifted load** to reposition the cylinder, allowing all operations to be conducted safely and controlled from a distance.

Features & benefits

- Only 12 tons are required for both pushing and pulling, thanks to the reduced friction of the sleds.
- Using a smaller cylinder allows you to work faster.
- - Less oil is required to extend and retract the cylinder.
- - Weight reduction, total weight only 17 kg
- Equal capacity for both pushing and pulling; usable in any position & either direction.
- Equipped with an unlocking cylinder to reposition remotely without the need to work underneath an elevated vehicle.
- After unlocking, it is easy to retract to avoid unnecessary side load.

Standard supplied with

- Quick couplers & dust caps

specifications		RTC 12 H 23
art no		100.002.734
req. pcs		1
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



OPERATIONAL COMPONENTS

When working in demanding circumstances and time is of the essence, you want to ensure a safe & controlled work environment above all. We offer you two Solutions to control your Rerailing System. Both are designed with operator safety, ergonomics & efficiency in mind.



REMOTE CONTROLLED PUMP

Option 1



Your 2-in-1 Solution: combining the function of a Pump & Control Table

This smart Powerpack Solution combines the functions of a pump unit & a control table into one integrated system. All your cylinders are powered by a robust Quattro pump, which delivers four equal flows to four independently wirelessly operated control valves.

When these control valves are activated simultaneously, they ensure **uniform cylinder stroke speeds during both lifting and lowering, regardless of the load.** Additionally, the valves can be controlled individually to operate each cylinder separately.

Pressure on each cylinder is easily monitored via user-friendly pressure gauges. The fact that the pump is wirelessly controlled **eliminates the need for a heavy pump unit to be taken into the field**, reducing noise disturbance during the operation, and your operator can maintain a safe distance from the vehicle during the rerailling operation.

The hoses required to connect your telescopic Lifting Cylinders to the pump match the colors on the pump control panel, **minimizing the risk of incorrect connections.**

Features & benefits

- Combining a pump & control table into one integrated system.
- Remotely controlled (up to one hundred meters); contributes to a safe and ergonomic operation:
 - No need to carry a heavy pump unit or control table from the recovery vehicle/container.
- Synchronized lifting due to separate oil flow.
- Enables you to oversee & control the rerailling operations from a safe distance.
- Colored hoses & matching colors on the outlets of the pump unit reduce the possibility of incorrect assembly and thus faulty operations.
- Available in 50hz & 60hz

Standard supplied with

- Remote control / AA batteries for back-up
- Chargeable battery + charger
- Quick couplers & dust caps: outlets for traversing.
- Flat face couplers: dust cap function incorporated: outlets for lifting.
- Color coordinated outlets for hoses: intuitive connection for lifting & traversing cylinders.



specifications		06Q25D + RC 50Hz	06Q25J + RC 60Hz
art no		101.002.805	101.002.804
description		Quattro pump + wireless remote control + wired remote back-up control	Quattro pump + wireless remote control + wired remote back-up control
max. working pressure	bar / Mpa	550 / 55	550 / 55
number of outputs		4	4
number of stages		2	2
1st stage output / min.	cc	1200 (x4)	1500 (x4)
2nd stage output / min.	cc	400 (x4)	500 (x4)
engine		230 VAC - 2.2 kW - 50 Hz - 1 Ph	230 VAC - 1.5 kW - 60 Hz - 1 Ph
Tank capacity	liter	25	25
dimensions (lxwxh)	mm	850 x 705 x 1250	850 x 705 x 1250
weight, ready for use	kg	162	162

CONTROL TABLES & PUMPS

Option 2



Our Rerailing Control Table allows you to manage your rerailing operation from a safe distance. The separated oil flows enable you to control your Telescopic Lifting Cylinders both individually and simultaneously.

The Control Table is delivered in **two separate lightweight parts** that are easy to carry around and assemble in the field:

- Carrying handles on the upper control part
- Supported by a (Tripod) standard

The Control Table is powered by a fit-for-purpose Pump. The pump principle generates a separate flow for both your lifting and traversing part of the operation, ensuring a safe & controlled way of work for your operation.

The use of colored hoses for your cylinders & matching colors on the outlets of the control table & pump unit **reduces the possibility of incorrect assembly and thus faulty operations.**

Features & benefits 4V Control Table

- Separated oil flows for a safe & controlled operation.
- Control the load from a safe distance.
- Tripod to increase stability no matter the surface, flat or sloping site.
- Made of lightweight aluminum.
- Colored hoses & matching colors on the outlets of the control table

Standard supplied with

- Couplers & dust caps

Features & benefits Pump

- Split flow to ensure a safe & controlled operation.
- Colored hoses & matching colors on the outlets of the control table unit reduce the possibility of incorrect assembly and thus faulty operations.
- Available in 50hz & 60hz
- Available in electric & petrol driven pump

Standard supplied with

- Couplers & dust caps

Required accessories

- 2 additional 10m hoses to connect your Control Table with your Split-Flow Pump
 - o Art No 100.570.002
 - o 2 pcs required



specifications		HCT 4V control table
art no		101.002.799
description		Control panel for rerailling, 4 valves
max. working pressure	bar / Mpa	550 / 55
number of outlet ports		4
dimensions (lxwxh)	mm	1550 x 510 x 292
weight, ready for use	kg	19.5

specifications		06T25P EU	06T25P NA	06T25P ASIA
art no		101.002.784	101.002.785	101.002.786
description		Twin pump for HCT 4V	Twin pump for HCT 4V	Twin pump for HCT 4V
max. working pressure	bar / Mpa	550 / 55	550 / 55	550 / 55
number of outputs		2	2	2
number of stages		1	1	1
1st stage output / min.	cc	600 (2x)	600 (2x)	600 (2x)
engine		petrol engine	petrol engine	petrol engine
tank capacity	liter	25	25	25
dimensions (lxwxh)	mm	666 x 440 x 706	666 x 440 x 706	666 x 440 x 706
weight, ready for use	kg	85	85	85

specifications		06T25D	06T25E	06T25Q
art no		101.002.782	101.002.783	101.002.787
description		Twin pump for HCT 4V	Twin pump for HCT 4V	Twin pump for HCT 4V
max. working pressure	bar / Mpa	550 / 55	550 / 55	550 / 55
number of outputs		2	2	2
number of stages		1	1	1
1st stage output / min.	cc	600 (2x)	600 (2x)	600 (2x)
engine		230 VAC - 2.2 kW - 50 Hz - 1 Ph	400 VAC - 1.5 kW - 50 Hz - 3 Ph	110/120 VAC - 60 Hz - 1 Ph
Tank capacity	liter	25	25	25
dimensions (lxwxh)	mm	666 x 440 x 706	666 x 440 x 706	666 x 440 x 706
weight, ready for use	kg	88	88	88



When rerailing larger or heavier vehicles, you may need two complete rerailing systems working together. To keep the process synchronized, both systems need to be controlled from one central point.

The Holmatro 8-valve control table makes this possible. It allows you to operate two complete rerailing system set-ups from a single control point, giving you full control over all hydraulic functions.

Required accessories

- 4 additional 10m hoses to connect your Control Table to your Split-Flow Pump
 - o Art No 100.570.002
 - o 4 pcs required

specifications		HCT 8V control table
art no		101.003.474
description		Control panel for rerailing, 8 valves
max. working pressure	bar / Mpa	550 / 55
number of outlet ports		8
dimensions (lxwxh)	mm	1100 x 877 x 1129
weight, ready for use	kg	55

specifications		06Q35P EU + NA	06Q35P ASIA
art no		101.003.481	101.003.478
description		Quattro pump for HCT 8V	Quattro pump for HCT 8V
max. working pressure	bar / Mpa	550 / 55	550 / 55
number of outputs		4	4
number of stages		2	2
1st stage output / min.	cc	2400	2400
2nd stage output / min.	cc	600	600
engine		petrol engine	petrol engine
tank capacity	liter	35	35
dimensions (lxwxh)	mm	797 x 463 x 659	797 x 463 x 659
weight, ready for use	kg	110	110

specifications		06Q35E	06Q35F
art no		101.003.482	101.003.483
description		Quattro pump for HCT 8V	Quattro pump for HCT 8V
max. working pressure	bar / Mpa	550 / 55	550 / 55
number of outputs		4	4
number of stages		2	2
1st stage output / min.	cc	2400	2200
2nd stage output / min.	cc	600	600
engine		400 VAC – 3kW – 50Hz – 3Ph	460 VAC – 3.5kW – 60Hz – 3Ph
tank capacity	liter	35	35
dimensions (lxwxh)	mm	666 x 440 x 706	666 x 440 x 706
weight, ready for use	kg	110	110





HOSES



To connect your Lifting & Traversing Cylinders

When working with high-pressure hydraulics 700 Bar / 10.000 psi safety comes first. All Holmatro hoses are suitable for 700Bar working pressure. Our hoses are designed on a 4:1 safety ratio. **All hoses are individually tested during the production process.**

Holmatro high-pressure hydraulic hoses for rerailing systems are available in different colors. **Matching colors** on the outlets of either your remote-controlled pump unit or the control table & pump unit **reduce the possibility of incorrect assembly and thus faulty operations.**

Standard supplied with

- Quick couplers & dust caps: outlets for traversing.
- Flat face couplers: dust cap function incorporated: outlets for lifting.
- Lifting and Traverse cylinders have different couplings to avoid false connections.
- Colors that match the connections on the control valves (control table & pump unit or remote-controlled pump unit) for a better overview and to avoid false connections.



Please note: for a working set, you need 3 different types of hoses. Our team is available to support you and/or check the questionnaire on page 5.

- 1. Select your Double (2 pcs) Hoses to connect the Telescopic Lifting Cylinders HATC** to the Remote Operated Pump or Control Table & Split Flow Pump: green, red or blue and 10 or 20 meters.
- 2. Your Double (2 pcs) hoses to connect the Traverse Cylinder** to the Remote Operated Pump or Control Table & Split Flow Pump: always in black.
- 3. Your Single (1 pcs) hose to connect the Locking Cylinder** of the Traversing Cylinder to the Pump: always in black.

hose types	description	model	art no
1. Telescopic Cylinder to Pump or Control Table & Split Flow Pump			
	Double extension hose to connect lifting cylinders to pump (orange / black)	RVL 10 DOU	100.570.304
	Double extension hose to connect lifting cylinders to pump (green / black)	RVL 10 DGU	100.570.305
	Double extension hose to connect lifting cylinders to pump (red / black)	RVL 10 DRU	100.570.306
	Double extension hose to connect lifting cylinders to pump (blue / black)	RVL 10 DBU	100.570.307
	Double extension hose to connect lifting cylinders to pump (orange / black)	RVL 20 DOU	100.570.298
	Double extension hose to connect lifting cylinders to pump (green / black)	RVL 20 DGU	100.570.299
	Double extension hose to connect lifting cylinders to pump (red / black)	RVL 20 DRU	100.570.300
	Double extension hose to connect lifting cylinders to pump (blue / black)	RVL 20 DBU	100.570.301
hose types	description	model	art no
2. Traverse Cylinder to Pump or Control Table			
	Double extension hose to connect traverse cylinder to pump (black)	RVL 10 DU	100.570.302
	Double extension hose to connect traverse cylinder to pump (black)	RVL 20 DU	100.570.296
hose types	description	model	art no
3. Locking Cylinder to Pump or Control Table			
	Single extension hose to connect locking cylinder of traverse cylinder to pump (black)	RVL 10 SU	100.570.303
	Single extension hose to connect locking cylinder of traverse cylinder to pump (black)	RVL 20 SU	100.570.297
hose types	description	model	art no
Control Table to Split Flow Pump			
	Double hose to connect Control table & Pump, 10 meters*	IVL10SOU	100.570.002

* 2 pcs required



ADDITIONAL EQUIPMENT

For those who want to be prepared for any situation, we offer a range of additional products that either complete your rerailing set to the max or provide additional Tools for unexpected emergencies.



MAXIMUM LOAD
200 kN 294 kN



holmatro

MAXIMUM SPEED
11.72
40 km/h 25 mph 15 m/min

railhook

The rail hook can be used for making final adjustments during the rerailing process or when a vehicle is slightly off track but not completely derailed. **It enables lateral movement of the wheels and parallel rotation of the wheel set on the track.** In situations with limited clearance, the rail hook can also serve as a rerailing tool to reposition derailed railway vehicles onto the tracks.

This lightweight tool features a Holmatro Cylinder & adjustable Hooks. **Easy to carry, position & operate by just one person.**



description	model	art no
Plug & Play Railhook, 720 bar Aluminum Handpump (PA04), Pressure gauge & 1x 5 meter hose.	10 Ton Rail Hook	101.003.484

auxiliary tow dolly

An auxiliary Tow Dolly (a.k.a. wagon, truck, wheel dolly, skate wheel) is your fast and straightforward solution for clearing track blockages caused by blocked or defective wheels.



description	model	art no
Auxiliary Tow Dolly - XL with standard <i>non-hardened</i> wheels	Auxiliary Tow Dolly	101.003.012

pulling device

The Holmatro Pulling Cylinder is designed **to provide a towing device that helps separate vehicles entangled in a collision.** This versatile and powerful tool also provides a fast, reliable solution for clearing blocked pathways, such as when a train is wedged between tunnel or bridge walls, or when debris obstructs the tracks.

- Can be secured to the rails or a ground anchor, **making it adaptable to various track widths.**
- It features 2x 5-meter pulling ropes, a pulling jack, holding ropes, and attachments for securing it to rails.



description	model	art no
Pulling device incl. accessories and wire ropes	20 Ton Pulling Device	101.003.485



Railhook



Auxiliary Tow Dolly



Pulling device

emergency back-up pump

The Holmatro Aluminum PA 100 emergency back-up hand pump allows you to safely lower the vehicle & the lifting cylinders **in case of, e.g., electrical failure**. Thanks to built-in safety features in the cylinders, you can switch pumps safely & secure in case of emergencies.



description	model	art no
Emergency high-capacity 2-stage Aluminum Hand Pump, 10 litres	PA 100 H 2	101.000.331

battery cutter or spreader

Holmatro Battery Tools are **powered by patented Holmatro technology**. For on-site Cutting or Spreading.



description	model	art no
Holmatro Battery Cutter + 2 batteries; additional charger is required	HBC050 A030	101.003.234
Holmatro Battery Spreader, additionally 2 batteries and a charger are required	PSP40	available on request

pneumatic lifting with stack bags

Stackable lifting bags. We are available to support you in choosing your required stacking bag + air bottle & air controller.



description	model	art no
Pneumatic Lifting with Stack Bags	-	available on request

ACCESSORIES



These accessories help ensure an even more efficient operation. A Tool Station to neatly lay out your system to set up step by step. Pressure Relief Tools to make sure you can always continue, reducing any remnant pressure.

accessories	description	model	art no
	Tool station The tool station is used to store all tools in an organized way.	2500 x 2000	150.182.044
	Coupler flat face / Stucchi, male • Connection: male • Fits: coupler flat face / stucchi female, art no 150.581.080 • Max. working pressure: 550 / 55 bar/Mpa	-	150.581.079
	Coupler flat face / Stucchi, female • Connection: female • Fits: coupler flat face / stucchi male, art no 150.581.079 • Max. working pressure: 550 / 55 bar/Mpa	-	150.581.080
	Pressure relief tool flat face / Stucchi, male • For reducing any remnant pressure • Suitable for: coupler flat face / stucchi male, art no 150.581.079 • Max. working pressure: 720 / 72 bar/Mpa	-	100.182.140
	Pressure relief tool • For reducing any remnant pressure • Suitable for: coupler flat face / ceijn male, art no 150.581.239 • Max. working pressure: 720 / 72 bar/Mpa	HRV 720	150.182.016
	Quick coupler, male, including aluminium dust cap • Connection: 1/4" BSP female • Fits: A 238 and A 240 • Max. working pressure: 720 / 72 bar/Mpa	-	150.581.239
	Quick coupler, female, including aluminium dust cap • Connection: 1/4" BSP female • Fits: A 239 • Extra lock ring	-	150.581.240
	Pressure relief tool • For reducing any remnant pressure • Suitable for: coupler flat face / Stucchi female, art no 150.581.080 • Max. working pressure: 720 / 72 bar/Mpa	-	150.159.074



COMPACT RERAILING UNIT

The Holmatro Compact Rerailing System combines our smart engineering & technology from our Rerailing systems in a compact solution ideal for smaller & lighter rail vehicles like trams and (depending on your application and needs) metros. A system with maximum performance at a minimum weight.



HOLMATRO COMPACT RERAILING SYSTEM

Components

TELESCOPIC LIFTING CYLINDERS

ADAPTER PLATE

BEAM

TRAVERSE SLED



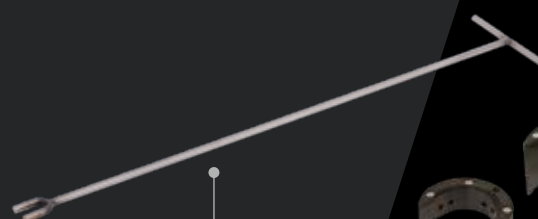
STABILIZER FOOT



EXTENSION HOSES



FORK TOOL

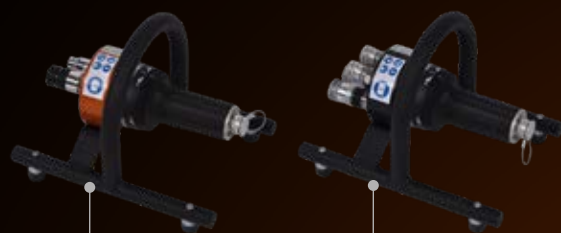


STACKING RINGS



STANDARD - TWIN PUMP

CORE HOSES



REMOTE CONTROL VALVE TRAVERSE

REMOTE CONTROL VALVE CYLINDER

COMPACT RERAILING UNIT



Lifting & Sliding Components for Compact Rerailing

The Holmatro Compact Rerailing Unit (CRU) is the core of your Compact Rerailing System and is a combination of:

- A Short **Rerailing Beam**
- The **Traverse Sled**: supporting the Lifting cylinders, enabling sliding
- Integrated **Traversing Cylinder**: enabling lateral movement, sliding of the load to put the vehicle back on track

Since both are adapted to the requirements of a lightweight vehicle, **weight is minimized & ergonomics further optimized.**

Features & benefits

- Compact, lightweight: ready for use at only 54 kg, divisible into parts of <40 kg:
 - Easy transportation to the accident.
 - Easy to install due to its compact dimensions.
- Suitable for lightweight railway vehicles, trams (metro) up to 46 Tons (23 Tons per side, unit).
- *Make sure to check the required lateral movement.*

Standard supplied with

- Optimally placed grips; easy to carry, by just 1 or 2 persons, on both the sled and the beam

2 pcs required: one for each side, lifting point of the Tram or (light) Metro.

specifications		CRU
art no		101.001.262
max. working pressure	bar/Mpa	550 / 55
stroke	mm	300
max. lifting en traversing capacity	kN/t	206/21
dimensions (LxWxH)	mm	850 x 379 x 153
weight, ready for use	kg	54

ALUMINUM TELESCOPIC CYLINDERS

HATC



HATC 80/28 H 20



HATC 80/28 H 45

Lifting & Sliding Components for Compact Rerailing

Holmatro Telescopic Rerailing Cylinders can reach long lifting distances while maintaining a compact closed height. Detailed info on page 12.

 **Since the Compact rerailing System is designed for lighter vehicles, only the 80ton cylinders are available for this set-up.**

Features & benefits

- Fully made of lightweight aluminum.
- Max working pressure of 550 bar: compact, ergonomic design
- Equipped with a 'load-lowering valve.'
 - Ensures a controlled lowering, regardless of the load.
 - Without this valve, the load could drop too quickly, creating unsafe situations.
- Including 'hose rupture safety.'
- Integrated in the lowering valves on each lifting cylinder; ensured safety, because of the load holding function, even in the event of a hose rupture.

Standard supplied with

- Flat face couplers: dust cap function incorporated.
- Load-lowering valve.
- Optimally placed grips; easy to carry, by just 1 or 2 persons.

specifications		HATC 80/28 H 20	HATC 80/28 H 45
art no		101.001.175	101.001.174
req. pcs		2	2
max. working pressure	bar/Mpa	550 / 55	550 / 55
tonnage	t	80 / 28	80 / 28
stroke	mm	200	450
closed height	mm	250	387
capacity 1st stage	kN/t	787 / 80.3	787 / 80.3
capacity 2nd stage	kN/t	276 / 28.2	276 / 28.2
required oil content (eff.)	cc	1864	4287
connection		flatface	flatface
cylinder type		telescopic	telescopic
return type		hydraulic	hydraulic
material		aluminum	aluminum
plunger ø 1st stage	mm	115	115
plunger ø 2nd stage	mm	70	70
weight, ready for use	kg	19.0	27.0

STACKING RINGS

Mechanical locking your
Cylinders HATC



Lifting & Sliding Components for Compact Rerailing

The stacking rings are placed on top of the Cylinder, **providing mechanical locking of the load** or vehicle and allowing operators to work safely underneath an elevated load. Use the fork to place the stacking rings on the cylinder from a **safe distance**.

Features & benefits

- Lightweight aluminum
- Mechanically locks the load in position for a longer time
- Enables you to work safely near and under the load.

Required accessory

- Fork

stacking rings	description	model	suitable for cylinder	filling height	weight, ready for use	req. pcs	art no
				mm	kg		
	Stacking ring 50 mm	SR 80/28 - 50	HATC 80/28 H **	50	1.3	2	101.001.624
	Stacking ring 100 mm	SR 80/28 - 100	HATC 80/28 H **	100	2.5	8	101.001.625
	Fork stacking ring for safely place the stacking rings	FORK	-		0.6	2	150.001.856

To maximize stability and safety, we offer a range of plates & stabilizing feet.

Every setup is different, so each option is designed for a specific operational need.

base plates

Base plates are used **when working directly from the ground, staking wood**. Our Base Plates are intentionally separated from our cylinders, providing a secure, more stable foundation for your entire system and load.

base plates	description	model	suitable for cylinder	weight, ready for use	req. pcs	art no
				kg		
	Base plate for Telescopic Lifting Cylinders	BP 80/28	HATC 80/28	4.7	2	101.001.087

adapter plates

Adapter Plates **fill out the diameter of the traverse sled**, ensuring a stable and safe system set-up.

adaptor plates	description	model	suitable for cylinder	weight, ready for use	req. pcs	art no
				kg		
	Adapter plate for Telescopic Lifting Cylinders	AP 80/28	HATC 80/28	3.2	2	101.001.926

stabilizing feet

By adding a stabilization foot, you **increase the diameter and footprint** of your **HATC 80/28 cylinders**, thereby enhancing stability.

stabilizing feet	description	model	suitable for cylinder	req. pcs	art no
	Stabilizing foot for Telescopic Lifting Cylinders	SF 80/28	HATC 80/28	2	101.002.302

TWIN PUMP



Operational Components for Compact Rerailing

Holmatro's petrol-driven CORE Twin Pump for the Compact Rerailing Unit allows a **simultaneous operation of both Rerailing Cylinders**, ensuring safe and controlled operation.

Utilizing CORE hose connections allows for **switching between different remote-control valves** (lifting/lowering and traversing) **without the need to switch off your pump**.

Features & benefits

- Switching control valves without switching of the pump.
- Safe and controlled operations with remote control valves for both lifting & traversing.
- Can be used anywhere in the world (petrol vs. Hz).

Standard supplied with

- Petrol engine to function independently.
- Core couplers with incorporated dust caps.

specifications		06 T 11 P - EU	06 T 11 P - US	06 T 11 P - ASIA
art no		101.001.468	101.002.019	101.002.096
max. working pressure	bar / Mpa	550 / 55	550 / 55	550 / 55
capacity oil tank (effective)	cc	11.000	11.000	11.000
first stage output (per stroke)	cc	700	700	700
first stage press range	bar	550	550	550
operator type		petrol engine	petrol engine	petrol engine
engine		4-stroke - 4.2 HP - 3.1kW	4-stroke - 4.2 HP - 3.1kW	4-stroke - 4.2 HP - 3.1kW
dimensions (lwxh)	mm	570 x 416 x 542	570 x 416 x 542	570 x 416 x 542
weight, ready for use	kg	48	48	48

REMOTE CONTROL VALVES



Operational Components for Compact Rerailing

The remote-control valve enables safe operation of your Compact Rerailing System, allowing for **user-friendly control of lifting, lowering, and traversing operations.**

Utilizing Core hose connections allows for switching between different remote-control valves without the need to switch off the pumps. Its compact design facilitates easy movement of the control valves around the railway vehicle, providing a better overview of the situation.

Per CRU system, 1 control valve for lifting *per cylinder* (so 2 pcs in total) and 1 for traversing are required to ensure a safe & fully functional setup.

Features & benefits

- Easy transportation towards the accident.
- Easy to install due to its compact dimensions.
- Core hose technology: press & return 1 one, single hose enabling you to switch between control valves, while the pump is running.
- Remote-controlled valves give you an excellent overview of the situation.
- Core technology enables easy switching control of the control valves.
- Safe and controlled operations.

Standard supplied with

- Core couplers with incorporated dust caps: outlet to connect RCV with Pump unit.
- Flat face couplers: dust cap function incorporated: outlets for lifting, towards cylinders.

remote control valves	description	model	req. pcs	art no
	Remote Control Valve for Telescopic Lifting Cylinder	RCV 550 C	2	101.001.451
	Remote Control Valve for Traversing Cylinder	RCV 550 T	1	101.001.447

HOSES



Operational Components for Compact Rerailing

When working with high-pressure hydraulics 700 Bar / 10.000 psi, safety comes first. All Holmatro hoses are suitable for 700Bar working pressure. Our hoses are designed on a 4:1 safety ratio. **All hoses are individually tested during the production process.**

Different Hoses are required to connect your:

- Lifting Cylinders & Traversing Cylinders to pump
- Control Valves to the remote control valves

hose types	description	model	req. pcs	art no
Lifting Cylinders & Traversing Cylinders to control valves				
	Double extension hose to connect traverse cylinder to pump (black)	RVL 10 DU	2	100.570.302
	Double extension hose to connect lifting cylinders to pump (orange / black)	RVL 10 DOU	2	100.570.304

hose types	description	model	req. pcs	art no
Pump to control valves				
	CORE hose for pump to the remote control valves (orange)	C 10 OU	1	150.570.043
	CORE hose for pump to the remote control valves (blue)	C 05 BU	1	150.570.045

ACCESSORIES FOR COMPACT RERAILING SYSTEMS

products	description	model	art no
	Tool station 2500 x 2000 mm	HTS 2500 x 2000	150.182.044
	Pressure relief tool flatface coupler male	-	100.182.140
	Pressure relief tool A239 coupler	-	150.182.016



FROM SYSTEMS TO TURN-KEY SOLUTIONS

Depending on the customer's requirements, we can co-supply various turnkey Solutions, from track-ready storage containers with backup power generation to high-specification rail vehicles with integrated staff facilities, including a pantry and seating area.

Adding a container, of any kind, to your system offers significant operational and safety advantages:

- Equipment can be brought directly to the incident
- Less manual handling
- Faster deployment
- Equipment protection



AFTER SALES & SERVICE SOLUTIONS

In addition to quality, we focus on unburdening our customers. Our in-house specialists and global partner network offer direct support, maintenance, spare parts, training, and on-site training & consultancy. Our long-standing experience and the local market knowledge of our partners ensure safe applications, maximum reliability, and a longer lifespan.

Our trained Rerailing & Hydraulic experts travel worldwide to provide comprehensive on-site training following the delivery of your equipment, ensuring your team is fully prepared for Safe & Efficient operations.

POWERING INNOVATION: A PROVEN TRACK RECORD IN RERAILING SOLUTIONS



USA
Staten Island



Netherlands
Pro Rail



Spain
COPASA



Brazil
Metro São Paulo



Italy
RFI



Uruguay
CAF Uruguay



Germany
Bundeswehr



China
Dalian Metro



Thailand
BTS Green Line South

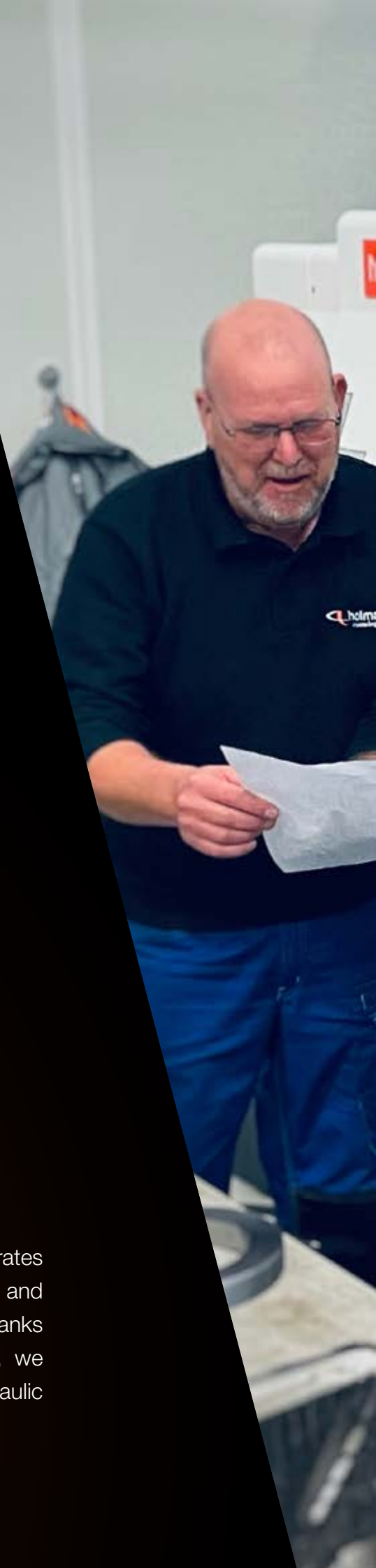


Australia
Holmatro

*For a full customer reference list 2016 up until 2026, contact our sales team.

ABOUT US

As a leading Dutch company, Holmatro Hydraulic Solutions operates worldwide in high-pressure hydraulic solutions. Innovation, quality, and extreme customer focus are the foundation of our company. Thanks to our long-standing history and dedication to craftsmanship, we know exactly what our customers need and deliver high-end hydraulic Solutions that combine performance, safety, and reliability.



MAZAK QUICK TURN NEXUS 350-II M

holmatro

MAZATROL MATRIX

Mazak VOICE ADVISER

MAZATROL MATRIX





LIFTING

For a wide range of industrial markets, our cylinders, pumps, and system components provide controlled force and maximum flexibility, from 5 to 300 tons. All our high-quality and reliable hydraulic Solutions are designed for precision work in industrial applications and are delivered through our global partner network.

HEAVY LIFTING & TRANSPORTATION SYSTEMS

In heavy lifting and transportation, control is key. Our solutions are designed to be safe, reliable, and user-friendly for the construction, installation, and offshore markets. Whether it's lifting, moving, pushing, or pulling, our systems move with the project and ensure efficient and safe handling of heavy loads. For offshore and OEM markets, we provide hydraulic solutions that withstand the most extreme conditions. Thanks to close cooperation with OEM partners, our systems integrate seamlessly into their processes. This way, we strengthen each other's success, regardless of the circumstances.



RERAILING — VEHICLE RECOVERY

We boast over +55 years of experience in designing, developing & producing high-pressure hydraulic tools & systems for both the Industrial and Rescue markets. We constantly challenge ourselves to deliver innovative, reliable, and safe solutions to our customers. This drive led us to explore the world of rerailling & recovery, where we seek to utilize our knowledge and expertise to perform this crucial task with enhanced safety, efficiency, and control, ultimately bringing more cost-effectiveness to operations.

CUTTING

Holmatro is a globally recognized expert in hydraulic cutting solutions, developed for continuous use in tough environments, with safety and ergonomics as starting points. They are widely used in recycling, demolition, production, and decommissioning. Their strength, reliability, and precision make them indispensable for professionals facing challenging cutting tasks.

DO YOU FEEL THE PRESSURE TO WORK SAFE?!

Working with 700bar is not to be taken lightly. The Holmatro Testteam gives an animated look on working with high pressure hydraulics. How powerful are hydraulic systems? Where do you have to pay attention to? And how do you identify possible risks? Check out our Testteam videos!

INFERIOR FITTINGS AT 720 BAR



THE POWER OF HYDRAULICS



ALUMINUM VERSUS STEEL



720 BAR OIL INJECTION CAUSED BY DAMAGED HOSE



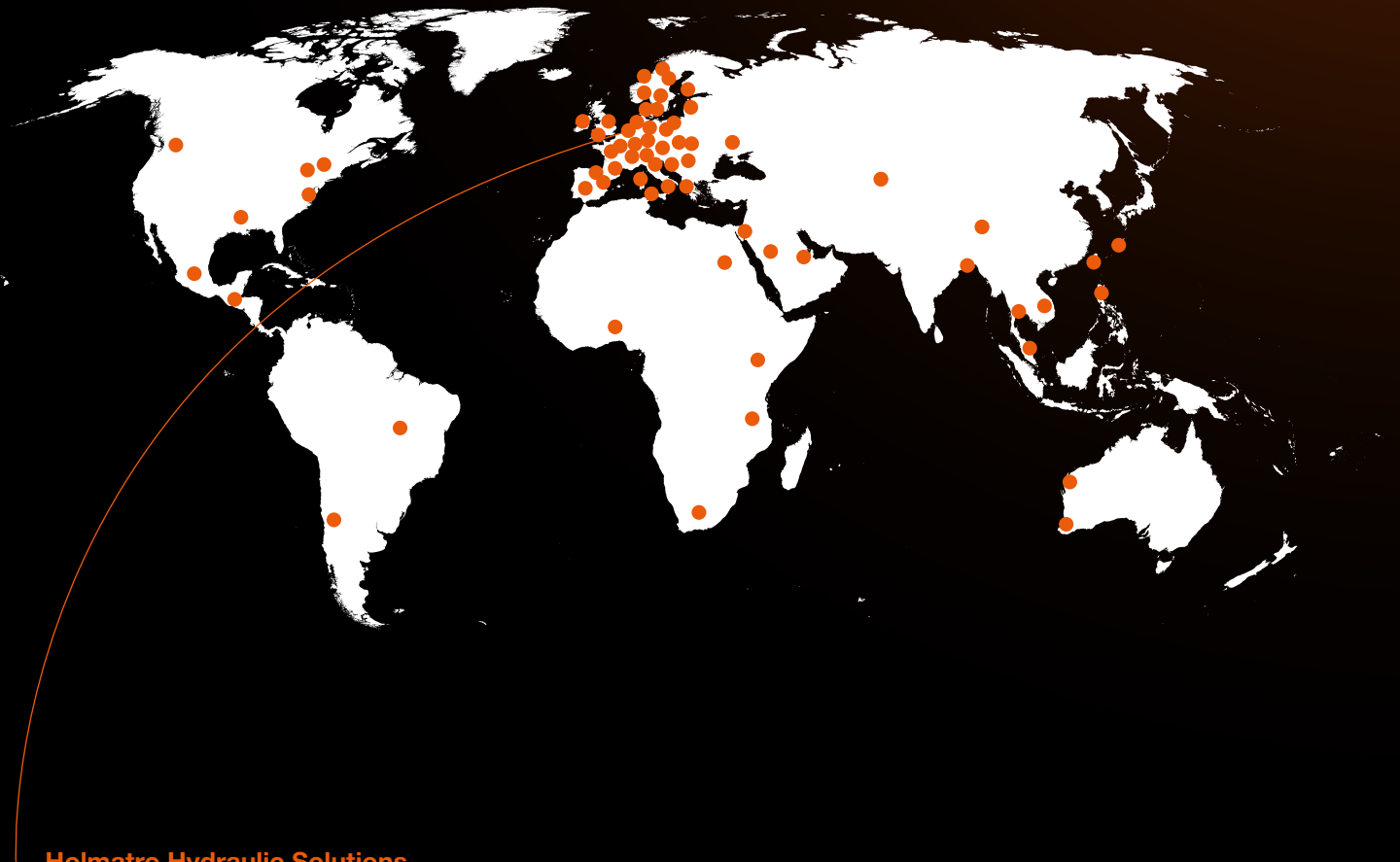
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