

RERAILING SYSTEMS





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ABOUT HOLMATRO

In 1967, Mr. Wessels founded the Holland Machine Trading Company. What started as a trading company, quickly grew into a high-pressure hydraulics specialist for Industrial cylinders with in-house production and development facilities. Nowadays, these cylinders are still the core of all our tools and systems, both Industrial and Rescue.

Over the years, Holmatro developed into a worldwide known & trusted brand. We are proud of the fact that after all this time we are still a **MADE in The Netherlands** company:

- Inhouse research & development
- Inhouse engineering
- 95% of sourcing & production in the Netherlands
- Inhouse quality control*

We always strive to be the best in our field; we want to provide you with the best suitable and safe solution for your application, excellent service and a great customer care.



HOLMATRO INDUSTRIAL EQUIPMENT

We help make the world move forward

Supporting the green energy transition (offshore wind farms, recycling), enabling civil engineering companies to build roads, bridges or moving buildings, helping to put a train back on track, reducing downtime for production facilities and make working with high pressure hydraulics safer; in all these applications and many more, our equipment and service concepts are key to help make the world move forward.



**WE HELP MAKE
THE WORLD MOVE
FORWARD**



* Our state-of-the-art production facilities in Raamsdonksveer, NL ensures that the high-grade traditional Dutch quality and robustness is maintained. Work is carried in accordance with the ISO 9001 Quality Management Standard and the SCC* Safety Health and Environment (SHE) Checklist Contractors. Our products comply with all international standards such as the European EN 13204, EN 13731. Holmatro tools are developed, manufactured and maintained in conformity with the highest quality standards of durability, side load, mechanical distortion and overpressure. As they must be resistant to the most extreme conditions, our products are thoroughly tested before they are authorized for use in practice.

HOLMATRO INDUSTRIAL SYSTEMS

Rerailing rolling stock, levelling and fixation of offshore wind mills, turbine transport, generator installations, ship launching: moving, adjusting or levelling heavy loads require controlled forces. One of the conditions for achieving this is that your system of choice is safe, easy to use and to deploy. User-friendliness is therefore the starting point for all our industrial systems: both in operation and functionality. Lifting, pushing, pulling, lowering, weighing, tilting or horizontal movement; **whatever direction your project moves in, we move with you.**



Rerailing

Discover Holmatro's World of Rerailing!

When a railway vehicle derails, the wish is to have the vehicle back on track in no time in a safe and controlled manner. Therefore a system needs to be in place that gets the job done. Holmatro offers rerailing systems that are suitable for different rerailing applications.

The Holmatro rerailing systems are built with three main elements in mind:

- Safe
- Fast
- Controllable



Offshore Wind

We have proven ourselves in the field of TP levelling and TP fixation, jacket fixation, cutting applications, seafastening systems and skidding solutions. Holmatro is your proven partner for your offshore wind project.

HOLMATRO INDUSTRIAL CUTTING TOOLS

Our Industrial Cutting Tools are designed to handle a variety of materials, to endure a high frequency use and reduce physical risks and demands. The main application focus of our Industrial Cutting Tools lies in the field of recycling, demolition, production and decommissioning industries. Our Industrial Cutting Tools are made with three main elements in mind:

- **Safe**
- **Durable**
- **Ergonomic**



HOLMATRO INDUSTRIAL TOOLS

With our range of cylinders, pumps and system components, we offer you flexibility and controlled power, from 5 to 300 tons. We offer high-quality products for almost any application. All tools are designed for generating and controlling precision power in various industrial applications, such as maintenance, construction & installation, mining, civil engineering, shipbuilding, heavy transport, petrochemical and offshore. The Industrial Tools range provides you with all needed components to compose your complete hydraulic system. **We are happy to help you find the best and safest solution for your application.**



HOLMATRO PARTNER NETWORK

At Holmatro Industrial Equipment, we believe in the power of joint success. We are proud of our network of dedicated local partners; they give excellent support to our customers with their expertise and knowledge of their market.



HOLMATRO PREMIUM SERVICE PROGRAM

Correct & periodic maintenance can prevent unnecessary damages, costs, and unsafe situations. This is why we offer you a complete service program for high pressure hydraulic tools.



How we test

Our years of experience have learned that there is only one correct way to determine if a hydraulic system is safe to use: dynamic testing. With dynamic testing, we simulate a max. use situation of the cylinder in a controlled environment. By doing so, hidden defects will be identified sooner, ensuring the reliability and safety of your tools.

How we train

Working with high pressure hydraulics comes with great responsibility. For you as an employer, it is important to inform and train your employees and keep them safe. We help you understand the risks related to high-pressure hydraulics, with on- and offline tools. Not only to help keep your employees safe, but also meet your legal obligations.



SCAN THE QR CODE

and discover more about our safety and maintenance instructions.

DISCOVER HOLMATRO'S WORLD OF RERAILING

Benefits

When a railway vehicle derails, the aim is to have the vehicle back on track in no time in a safe and controlled manner. Therefore a system needs to be in place that gets the job done. Holmatro offers rerailing systems that are suitable for different rerailing applications.

The Holmatro rerailing systems are built with three main elements in mind:

✓ SAFE

A safe system speaks for itself simply because the recovery team needs to work in a **safe** environment. That's why some unique safety features were added to the Holmatro rerailing systems.

- 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
- Easily replaceable slide bearings both under and in the traverse sled
 - A safer operation with less stress on the railway vehicle and the equipment
- 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
- Lowering valves with an integrated hose rupture security feature on each lifting cylinder.
 - Ensured safety, because of the load holding function, even in the event of a hose rupture.

✓ FAST

Holmatro uses **lightweight** components in their Rerailing Systems. 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 or two persons.
- Reduces the physical burden
- Maximum performance at a minimum weight

✓ CONTROLLED

The Holmatro Rerailing systems are developed with **controllability** in mind so some features in the systems will make sure that the user can operate the system in a controlled manner. You are in control!

- 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
 - Shorter maintenance times
 - Lighter parts (no steel wheel rollers)
- Traverse cylinder with an equal capacity for both pushing and pulling.
 - Ability to push or pull the vehicle into position, instead of only pushing
- Lowering valves with an integrated hose rupture security feature on each lifting cylinder.
 - Controlled lowering of the vehicle, regardless of the load on each cylinder.



HOW TO COMPOSE A HOLMATRO RERAILING SYSTEM

We want to take you through the steps which are key to compose a complete Rerailing System.

Step 1: Beam

The beam is essential for every Rerailing System. They come in different lengths. The operator can easily connect the beams by using the connection plates and four bolts. The beams also come in different heights starting from 85 mm. The Holmatro Rerailing system beams are fully made out of aluminum, which is a lightweight material.

Step 2: Sled

The sleds are used underneath the lifting point of the derailed vehicle. The sleds have a Teflon-like material sliding bearing underneath, which makes it easier for them to slide. The advantages of the Teflon-like material are less maintenance, less friction and weight reduction, which makes them easy to handle and easy to carry. Inside the sled, there is another internal sled with the same sliding bearings underneath, which is used to compensate the radius the railway vehicle is making when putting it back on track. The internal sled is equipped with an indicator, which indicates the end of the stroke, when using the internal sled.

Step 3: Struts

The struts are used as a distance bar between the lifting points. This way they stay at the same distance to avoid any unsafe situations. The struts come in different lengths, but they can also be adjusted step by step by simply removing the pin. For the final adjustment the operator needs to use the thread on the bar. The struts are also made from aluminum so they are lightweight and easy to carry.

Step 4: Traverse Cylinder

The Traverse Cylinder is used for lateral movement of the load. It is a double-acting cylinder with a push and pull capacity of both 12 tonnes. This traverse cylinder has a capacity of only 12 tonnes because less force is required due to the use of the sliding bearings with less friction underneath the sled. The traverse cylinder is equipped with a locking pin which goes in the holes towards the next step.

This one is a smaller single-acting unlocking cylinder used to unlock the traverse cylinder. This way the operator doesn't need to go underneath the elevated vehicle to reposition the cylinder into the next hole. Don't forget to use the guidance which is connected to the sleds.

Step 5: Telescopic Cylinders

First place the filler plates on top of the sled (if applicable). On top of the filler plate the operator needs to place a top plate. They are used to heighten the cylinder from the bottom. We always advise to heighten from the bottom to create more stability. Especially when the space under the vehicle is limited it is recommended to use filler plates.

The cylinder is a fully aluminum telescopic cylinder, which comes in different heights, different stroke lengths and different capacities. A main feature of the telescopic cylinder is the load-lowering valve. The load lowering valve makes sure that lowering is possible in a controlled manner without the load being of influence on lowering. Next to the load lowering valve these telescopic cylinders are also equipped with a hose rupture security. This feature makes sure that, in case a hose breaks, the whole system stops immediately.

Step 6: Stacking rings

The stacking rings are used for mechanical locking of the load. This way the operator can work safely underneath the elevated vehicle. For installing the stacking rings the operator needs to use a fork. By using the fork the operator can stay within a safe distance from the vehicle.

Step 7: Hoses and Couplers

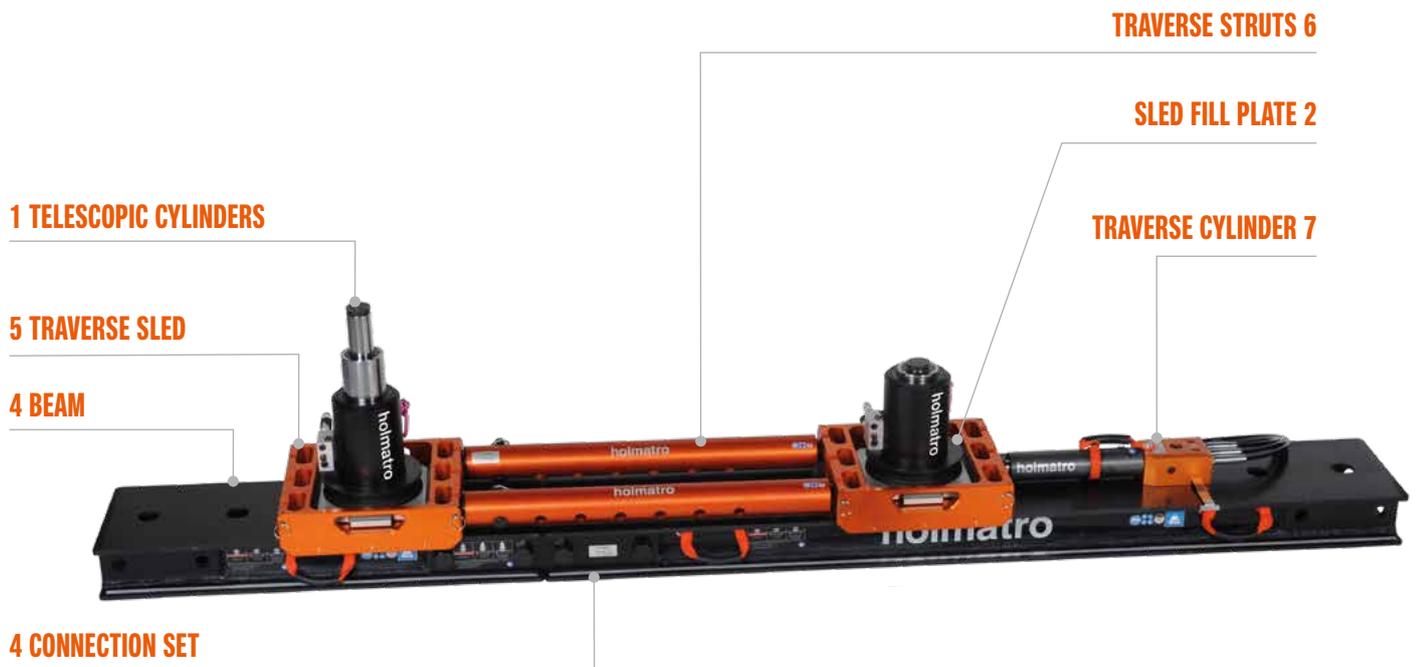
This next step is the coupling of the hoses on the pump unit. Always connect the right colour hose to the right connection on the pump. Holmatro uses flat face couplers, which are easy to clean by just wiping off the dirt.

Step 8: Pump

This is the final step in composing a Holmatro Rerailing System. Holmatro offers different pumps for different application. So choose the pump that is suitable for the application.

HOLMATRO RERAILING SYSTEMS

Components



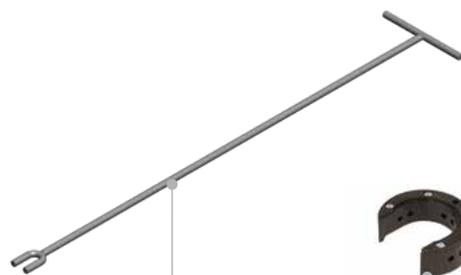
5 LOCKING DEVICE



10 EXTENSION HOSES



3 FORK TOOL



3 STACKING RINGS



TWIN PUMP 8

CONTROL TABLE 9

QUATTRO PUMP 8

WIRELESS REMOTE CONTROL UNIT 8



Also available: Petrol pump



LIFTING COMPONENTS

1 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.



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
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

2 PLATES

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

Base plates		description	model	suitable for cylinder	weight, ready for use
					kg
	Base plate for lifting cylinders	BP 80/28	HATC 80/28 H **	4.7	
	Base plate for lifting cylinders	BP 127/53	HATC 127/53 H **	4.4	

Plates		description	model	dimensions (lxwxh)	weight, ready for use
				mm	kg
	Sled fill plate	SFP 260x50	Ø 260 x 50	2.7	
	Adapter plate for the HATC 80/28 cylinder to use with the sled fill plate	AP 181x5	Ø 250 x 10	3.2	
	Top plate; used on each traverse sled to ensure there is no sliding on the lifting cylinders, but only on the traverse	STP 260x10	Ø 250 x 10	3.3	

3 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		description	model	suitable for cylinder	filling height	weight, ready for use
				mm	kg	
	Stacking ring 50 mm	SR 80/28 - 50	HATC 80/28 H **	50	1.3	
	Stacking ring 100 mm	SR 80/28 - 100	HATC 80/28 H **	100	2.5	
	Stacking ring 50 mm	SR 127/53 - 50	HATC 127/53 H **	50	1.8	
	Stacking ring 100 mm	SR 127/53 - 100	HATC 127/53 H **	100	3.5	
	Fork stacking ring for safely place the stacking rings	FORK	-		0.6	

SLIDING COMPONENTS

4 BEAMS

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

Beams	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
	Long beam to slide the sleds on (low)	B11 - 2200	2200 x 350 x 85	41.5
	Short beam to slide the sleds on (low)	B11 - 1100	1100 x 350 x 85	21.2

* Available upon request: Beam length 3300 mm and 4400 mm

Sets	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Connection set for connecting two beams to each other	CPS 30	-	30.4
	Connection set for connecting two low beams to each other	CPS 11	-	14.2
	Wheel set rerailing; for easy movement of the beams to their location	WSR 30 B	-	12.0

5 TRAVERSE SLEDS

The traverse sled 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

Use the sled fill plates to increase the height of the traverse sleds (for the HATC 80 cylinder, an adapter plate is needed)

Use a locking device to mechanically lock the traverse sleds.

Traverse sleds	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Traverse sleds	TS 232	450 x 400 x 120	24.0
	Locking device rerailing Max. horizontal displacement: 230 mm	LDR 30 B	-	5.0

6 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	description	model	weight, ready for use
	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

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

7 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	Specifications	RTC 12 H 23
	max. working pressure	bar / Mpa
	tonnage	t
	stroke	mm
	closed height	mm
	capacity (press)	kN/t
	capacity (retract)	kN/t
	return type	hydraulic
	material	steel
	weight, ready for use	kg

OPERATION COMPONENTS

8 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.



Quattro pump



Twin pump

Motor pumps		04 Q 25 D + 4EVWLR	06T25D RR*
description		Quattro pump + wireless remote control	Twin pump + control table
max. working pressure	bar / Mpa	550 / 55	550 / 55
number of outputs		4	4
number of stages		2	2
1st stage output / min.	cc	1100 (x4)	600 (x2)
2nd stage output / min.	cc	400 (x4)	-
engine		230 VAC - 2.2 kW - 50 Hz - 1 Ph	230 VAC - 1.5 kW - 50 Hz - 1 Ph
Tank capacity	liter	25	25
dimensions (lxwxh)	mm	850 x 705 x 1250	695 x 461 x 646
weight, ready for use	kg	215	77

* Also available as petrol pump

9 CONTROL TABLE

Control table	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Control table with 4 valves and foldable foot rack	HCT4V	845 x 490 x 1015	38

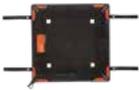
10 HOSES

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

hose types	description	model
	Double extension hose for connecting traverse cylinder to pump (black)	RVL 10 DU
	Single extension hose for connecting locking cylinder of traverse cylinder to pump (black)	RVL 10 SU
	Double extension hose for connecting lifting cylinders to pump (orange / black)	RVL 10 DOU
	Double extension hose for connecting lifting cylinders to pump (green / black)	RVL 10 DGU
	Double extension hose for connecting lifting cylinders to pump (red / black)	RVL 10 DRU
	Double extension hose for connecting lifting cylinders to pump (blue / black)	RVL 10 DBU
	Double extension hose for connecting traverse cylinder to pump (black)	RVL 20 DU
	Single extension hose for connecting locking cylinder of traverse cylinder to pump (black)	RVL 20 SU
	Double extension hose for connecting lifting cylinders to pump (orange / black)	RVL 20 DOU
	Double extension hose for connecting lifting cylinders to pump (green / black)	RVL 20 DGU
	Double extension hose for connecting lifting cylinders to pump (red / black)	RVL 20 DRU
	Double extension hose for connecting lifting cylinders to pump (blue / black)	RVL 20 DBU

→ Contact our Rerailing specialists via rerailing@holmatro.com for more information.

RELATED PRODUCTS

Products	description	model
	Auxillary tow dolly	Tow dolly
	Stack bag (12 bar) Stackable lifting bag	HSB40 (Light Rail)
	Stack bag (12 bar) Stackable lifting bag	HSB74 (Train)
	Cordless Spreader, part of the Holmatro Pentheon Series. Designed to offer you the unrestrained performance, unparalleled speed and ultimate control you've never experienced before!	PSP 40
	Cutter - battery driven Cordless Inclined Cutter, part of the Holmatro Pentheon Series.	PCU40
	Uprighting device incl. accessories	
	Pulling device incl. accessories and wire ropes	
	Emergency hand pump	PA 100
	Rail hook for pushing the vehicle onto the rail track + Handpump PA 04 H 2 (included)	

ACCESSORIES

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
	Stabilization foot	-	101.002.302
	Grip with two handles for HATC 80	-	101.000.966
	Grip with three handles for HATC 127	-	101.000.961

COMPONENTS LIST

Rerailing systems

Description	model	Article #
Lifting components		
Telescopic cylinder	HATC80_28H20	101.001.175
Telescopic cylinder	HATC80_28H45	101.001.174
Telescopic cylinder	HATC127_53H 20	101.001.173
Telescopic cylinder	HATC 127_53H 45	101.001.172
Base plate for lifting cylinders	BP80/28	101.001.087
Base plate for lifting cylinders	BP127/53	101.001.088
Stabilizing foot	SF80/28*	101.002.302
Stacking ring	SR 80_28 - 50	101.001.624
Stacking ring	SR 80_28 - 100	101.001.625
Stacking ring	SR 127/53 - 50	101.001.626
Stacking ring	SR 127/53 - 100	101.001.627
Fork stacking ring	FORK	150.001.856
Sliding components		
Standard beam - length 1100 mm - height 140 mm	B 30 - 1100	100.002.916
Standard beam - length 2200 mm - height 140 mm	B 30 - 2200	100.002.915
Connection set	CPS 30	130.182.412
Traverse Sled	TS 232	100.002.799
Sled fill Plate	SFP 260x50	100.002.804
Adapter Plate HJ68/21	AP 170x5	100.002.895
Adapter Plate	AP 181x5	101.001.926
Locking Device Rerailing	LDR 30 B	100.002.869
Traverse Strut	TST 1390-2090	100.002.809
Traverse strut	TST 1990-3090	100.003.116
Traverse cylinder	RTC 12 H 23	100.002.734
Wheel set rerailing	WSR 30 B	100.002.865
Top plate	STP 260x10	100.002.829
Operation components		
Twin pump with control table (Electrical)	06T25D RR	101.002.647
Twin pump with control table (Petrol)	06T25P EU	101.002.772
Quattro pump with control table (Electrical)	04Q25D	170.152.068
Quattro pump with control table (Petrol)	04Q25P EU	101.001.723
Tool station	HRTS 2500 x 2000	150.182.044
Pressure relief tool A239 coupler	A239	150.182.016
Pressure relief tool male flatface coupler		100.182.140
Connection components		
Double extension hose	RVL 10 DU	100.570.302
Single extension hose	RVL 10 SU	100.570.303
Double extension hose	RVL 10 DOU	100.570.304
Double extension hose	RVL 10 DGU	100.570.305
Double extension hose	RVL 10 DRU	100.570.306
Double extension hose	RVL 10 DBU	100.570.307
Double extension hose	RVL 20 DU	100.570.296
Single extension hose	RVL 20 SU	100.570.297
Double extension hose	RVL 20 DOU	100.570.298
Double extension hose	RVL 20 DGU	100.570.299
Double extension hose	RVL 20 DRU	100.570.300
Double extension hose	RVL 20 DBU	100.570.301

➔ More information? Contact us via rerailing@holmatro.com, and together we'll compose your Rerailing System!



HOLMATRO COMPACT RERAILING UNIT

Holmatro introduces the Compact Rerailing Unit. This Compact Rerailing Unit is the lightest solution in the market to rerail lightweight railway vehicles with the highest precision. You have the possibility to compose a Compact Rerailing System that is suitable for your application. You are in control!

Features and benefits

Fast

- Lightweight rerailing unit (54 kg)
- Ergonomically (easy transportation towards the accident site by simply moving the unit in separate parts and easy to install due to its small overall dimensions)
- Able to switch to another hose with a new coupling while pump is running

Safe

- Divisible (easy and safe to carry and easy to position in the right spot in a safe manner)
- Easily **replaceable** low friction slide bearings both under and in the traverse sled
- Stacking rings which can be **easily placed** round the plunger of the lifting cylinder when **securing** the load – Work safely near and under the load
- Different **colors** of hoses and different type of **couplers** for lifting and sliding to prevent incorrect connections
- Position of the carrying handles

Controllable

- Load lowering valve – Lowering in a controlled manner without the load being of influence on lowering.
- Equal / split flow pump
- Better overview of the situation when using remote control valves
- Big radius because of internal sliders in traverse sled

**Compact, lightweight and user-friendly.
Suitable for lightweight railway vehicles.**





VS3

GVB
3026

holmatro

holmatro



GVB
3026

holmatro

holmatro

holmatro

HOW TO COMPOSE A HOLMATRO COMPACT RERAILING SYSTEM

We want to take you through the steps which are key to compose a complete Compact Rerailing System. Compose the Compact Rerailing System that is suitable for your application!



STEP 1 Sliding components

The beam is essential for every Rerailing System. Together with the Traverse Sled you have the perfect base for your Compact Rerailing System.



STEP 2 Lifting components

The cylinder is a fully aluminum telescopic cylinder, which comes in two different heights. The stacking rings are used for mechanical locking of the load.



STEP 3 Operation components

Holmatro offers different pumps (standard and manual) for different application. The next step is the coupling of the hoses on the pump unit.



STEP 4 Accessories

In addition to the sliding, lifting and operation components we have a couple of accessories. For example pressure relief tools.

HOLMATRO COMPACT RERAILING SYSTEM

Components

5 TELESCOPIC CYLINDERS

ADAPTER PLATE 3

1 BEAM

TRAVERSE SLED 2



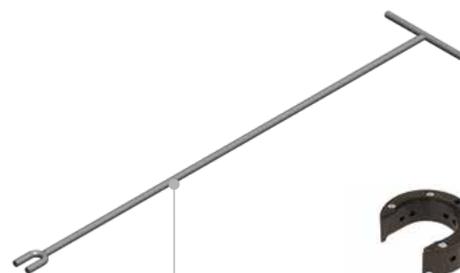
STABILIZER FOOT 4



8 EXTENSION HOSES



6 FORK TOOL



6 STACKING RINGS



MANUAL - HAND PUMP WITH VALVE & PRESSURE GAUGE 7



T-PIECE FEMALE 7

T-PIECE MALE 7

STANDARD - TWIN PUMP 7



CORE HOSES 8



REMOTE CONTROL VALVE TRAVERSE 7

REMOTE CONTROL VALVE CYLINDER 7

SLIDING COMPONENTS

COMPACT RERAILING UNIT

Compact and lightweight unit for easy transportation and when space is limited. The unit is divisible which makes it easy to carry towards the accident site.



Compact Rerailing Unit		
max. working pressure	bar/Mpa	550 / 55
stroke	mm	300
max. lifting en traversing capacity	kN/t	206/21
overall dimensions (LxWxH)	mm	850 x 379 x 153
weight, ready for use	kg	54

1 BEAM

Compact beam made from aluminum. This means: Easy transportation towards the accident site and easy installation due to lower weight and compact dimensions.

Beam	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	Compact Rerailing Unit Beam	CRU beam	850 x 356 x 100	38

2 TRAVERSE SLED

The traverse sled will facilitate side movements (perpendicular to the rails).

Traverse sled	description	model	dimensions (lxwxh) mm	weight, ready for use kg
	CRU traverse sled	CRU slide	458 x 364 x 82	16

LIFTING COMPONENTS

3 PLATES

The plates are used under the lifting cylinders for lifting the railway vehicle.

Plates	description	model	dimensions (lxxh)	weight, ready for use
			mm	kg
	Sled fill plate	SFP 260x50	Ø260 x 50	2.7
	Adapter plate for the cylinder to use with the sled fill plate	AP 181x5	Ø250 x 10	2.4
	Base Plate	Base Plate BP 80/28	Ø300 x 25	4.5

4 STABILIZER FOOT

The cylinder can be placed in the stabilizer foot for extra stability of the position of the lifting cylinder.

Stabilizer foot	description	model	dimensions (lxxh)	weight, ready for use
			mm	kg
	Stabilizer foot	SF80/28*	Ø231 x 90	4.8

5 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. These telescopic cylinders make stable lifting and lowering possible.



HATC 80/28 H 20



HATC 80/28 H 45

Specifications		HATC 80/28 H 20	HATC 80/28 H 45
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

6 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	description	model	suitable for cylinder	filling height	weight, ready for use
				mm	kg
	Stacking ring 50 mm	SR 80/28 - 50	HATC 80/28 H **	50	1.3
	Stacking ring 100 mm	SR 80/28 - 100	HATC 80/28 H **	100	2.5
	Fork stacking ring for safely place the stacking rings	FORK	-		0.6

OPERATION COMPONENTS

7 PUMPS

Holmatro provides different pumps for operating the cylinders of the system. Pump differences are in terms of the accuracy of synchronization, flexibility and usability.

Motor pump (standard)		06 T 11 P_**	
	description		
	Petrol driven twin pump with 2 CORE connections		
	max. working pressure	bar / Mpa	550 / 55
	number of outputs		2
	number of stages		1
	output / min.	cc	700
	capacity oil tank (eff.)	cc	11000
	engine		4-stroke - 4.2 HP - 3.1 kW
	speed	rpm	3300
	dimensions (l x w x h)	mm	570 x 416 x 542
weight, ready for use	kg	48,6	

Additional information

- Petrol driven duo pump, CORE version, for simultaneous operation of two tools.
- Save and controlled operations with remote control valves.
- Switching control valves without turning of the pump.

Operation components	description	model
	Remote control valve cylinder (orange)	RCV 550 C
	Remote control valve traverse (up to 2 CRU's) (black)	RCV 550 T

Hand pump (manual back-up)		PA 38 H 2
	working pressure	bar/MPa 720 / 72
	max. operating force	kg 35
	output, 1 st stage	cm ³ / stroke 42.8
	output, 2 nd stage	cm ³ / stroke 3.1
	max. pressure, 1 st stage	bar 0 - 45
	max. pressure, 2 nd stage	bar 45 - 720
	effective tank capacity	cm ³ 3800
	weight incl. oil	kg 11.4
	LxWxH	mm 700 x 183 x 175
	maintenance set	art no 100.013.268

Additional information

- Robust and compact construction, ergonomic design
- Service- and maintenance-friendly
- High oil output
- Accurately controllable pressure release valve
- Pressure gauge connection on pump block
- Oil level glass in tank
- Integrated filler funnel
- Push & Unlock pump handle lock

Operation components	description	model
	Double acting switch valve (lifting / traversing)	VM 43 L_SP
	Pressure gauge set for pa *8 pumps	-
	T-piece male to connect traverse compact rerailing unit (orange)	T-piece 0.5 M
	T-piece female to connect traverse compact rerailing unit (black)	T-piece 0.5 F

8 HOSES

Holmatro provides different hydraulic hoses needed for connecting the lifting cylinder.

Hose types	description	model
	Double extension hose for connecting traverse cylinder to pump (black)	RVL 10 DU
	Double extension hose for connecting lifting cylinders to pump (orange / black)	RVL 10 DOU
	CORE hose for pump to the remote control valves (orange)	C 10 OU
	CORE hose for pump to the remote control valves (blue)	C 05 BU

9 ACCESSORIES

Accessories	description	model
	Tool station 2500 x 2000 mm	HTS 2500 x 2000
	Pressure relief tool flatface coupler male	-
	Pressure relief tool A239 coupler	-

COMPACT RERAILING UNIT SYSTEM COMPONENTS

Description	model	Article #
Sliding components		
Compact Rerailing Unit	CRU	101.001.262
Lifting components		
Telescopic cylinder	HATC 80/28 H 20	101.001.175
Telescopic cylinder	HATC 80/28 H 45	101.001.174
Telescopic cylinder excl. load lowering valve	HATC 80/28 H20ELV	101.001.396
Telescopic cylinder excl. load lowering valve	HATC 80/28 H45ELV	101.001.395
Stacking ring (Support ring)	SR 80/28 - 50	101.001.624
Stacking ring (Support ring)	SR 80/28 - 100	101.001.625
Fork for placing stacking (support) rings	FORK	150.001.856
Sled filler plate	SFP 260x50	100.002.804
Adapter plate	AP 181x5	101.001.926
Base plate	Base Plate BP 80/28	101.001.087
Stabilizer foot	SF 80/28* / HATC80	101.002.302
Operation components		
Hand pump	PA38H2	100.142.037
Pressure Gauge Set For PA *8 Pumps	-	100.182.214
Double acting switch valve (lifting/traversing)	VM43 L_SP	101.001.226
T-piece male to connect traverse CRU (orange)	T-piece 0.5 M	101.001.830
T-piece female to connect traverse CRU (black)	T-piece 0.5 F	101.001.831
Petrol driven twin pump with 2 CORE connections (EUROPE)	06T11P_EU	101.001.468
Petrol driven twin pump with 2 CORE connections (USA)	06T11P_US	101.002.019
Petrol driven twin pump with 2 CORE connections (ASIA)	06T11P_A	101.002.096
Remote control valve cylinder	RCV 550 C	101.001.451
Remote control valve traverse (up to 2 CRU's)	RCV 550 T	101.001.447
CORE hose, 10 m	C10OU	150.570.043
Double extension hose traverse cylinder (black)	RVL10DU	100.570.302
Double extension hose lifting cylinder (orange/black)	RVL10DOU	100.570.304
Accessories		
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

→ More information? Contact us via rerailing@holmatro.com, and together we'll compose your Rerailing System!



HOLMATRO INDUSTRIAL EQUIPMENT

Your partner in high-pressure hydraulics

Our DNA

- A Dutch manufacturer of high-pressure hydraulics with +55 years of experience
- Application knowledge is key
- We believe in the power of joint success

Product range

- A reliable and sustainable range of high-quality, high-pressure tools
- Based on innovative, in-house engineering and the latest technologies

Service & Support

- A complete service & aftersales program
- To ensure a longer lifespan of your products
- Reduce downtime
- Focus on increasing safety for your customers and employees and creating safety awareness in the market
- Compatible with current safety directives and regulations
- A "Ready for use" service concept

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