

**RERAILING**  
ENTIRE RANGE

**LUKAS**

fast. safe. trusted since 1955.



# FAST AND SAFE BACK ON TRACK

LUKAS has been developing and manufacturing exceptional high-pressure hydraulics for industrial use in a wide variety of sectors since as early as 1948.

In addition to the industrial and rescue sectors, the rerailling sector completes the portfolio of hydraulic equipment at LUKAS. For decades, the rerailling systems produced by the Erlangen-based company have been the global leaders.

Our highest priority, alongside the quality of the products and a well thought-out portfolio, is precision rerailling and safety when moving loads using a control desk only.

But LUKAS is more than just a producer of hydraulic products – they are also the perfect partner for providing solutions and helping you to get your rail vehicle quickly and safely back on track. Thanks to their years of experience, LUKAS also possesses extraordinary planning expertise and not only delivers the product but also has the perfect solution ready for you.

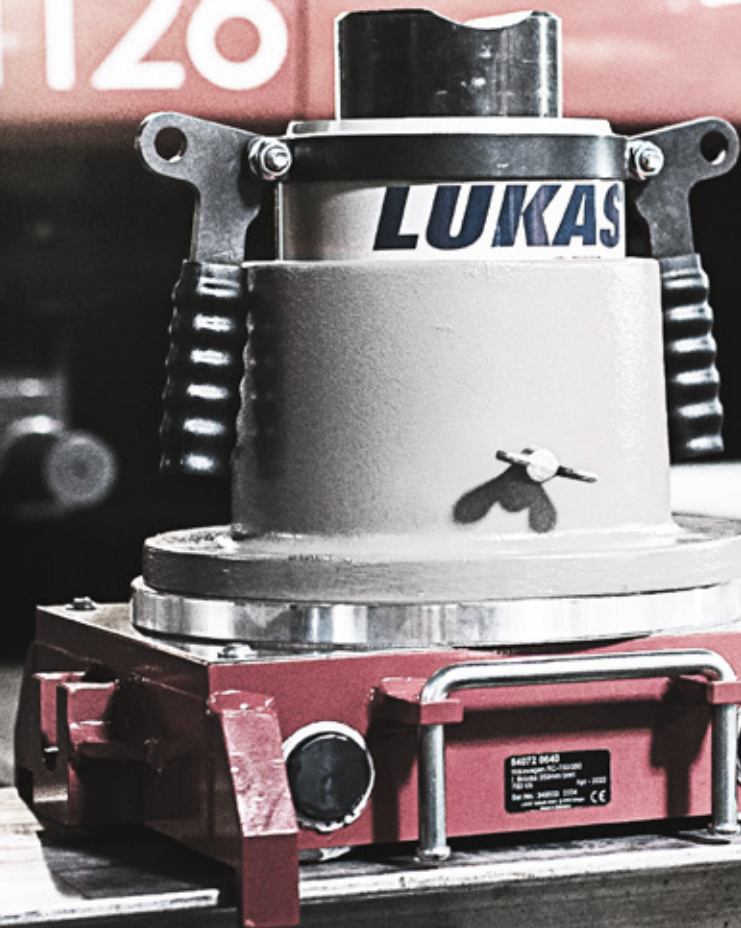


# ONE SYSTEM – ONE SOLUTION

The thoughtfully designed LUKAS rerailing system has been the national and global leader for decades. Benefit from our experience in a wide range of projects all over the world. We have a solution for every problem and will be glad to help you with a customised solution.

Invest in true quality and in a product that will help you get derailed vehicles of all kinds back on track quickly and precisely. Use a control desk at a safe distance to move the load along the entire bridge length in both directions with millimetre precision.

This means you can work conveniently and quickly outside the danger area. Get your tracks back in service within a very short time while minimising your down-time expenses.



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# LUKAS – INNOVATIVE RERAILING TECHNOLOGY

## SMART & SAFE

- Intuitive operation at a safe distance
- Well-designed technology counteracts unfavourable load distributions
- Every oil flow (lifting or traversing cylinder) is assigned a pressure gauge
- Operating pressure can be constantly monitored

## STRONG & FAST

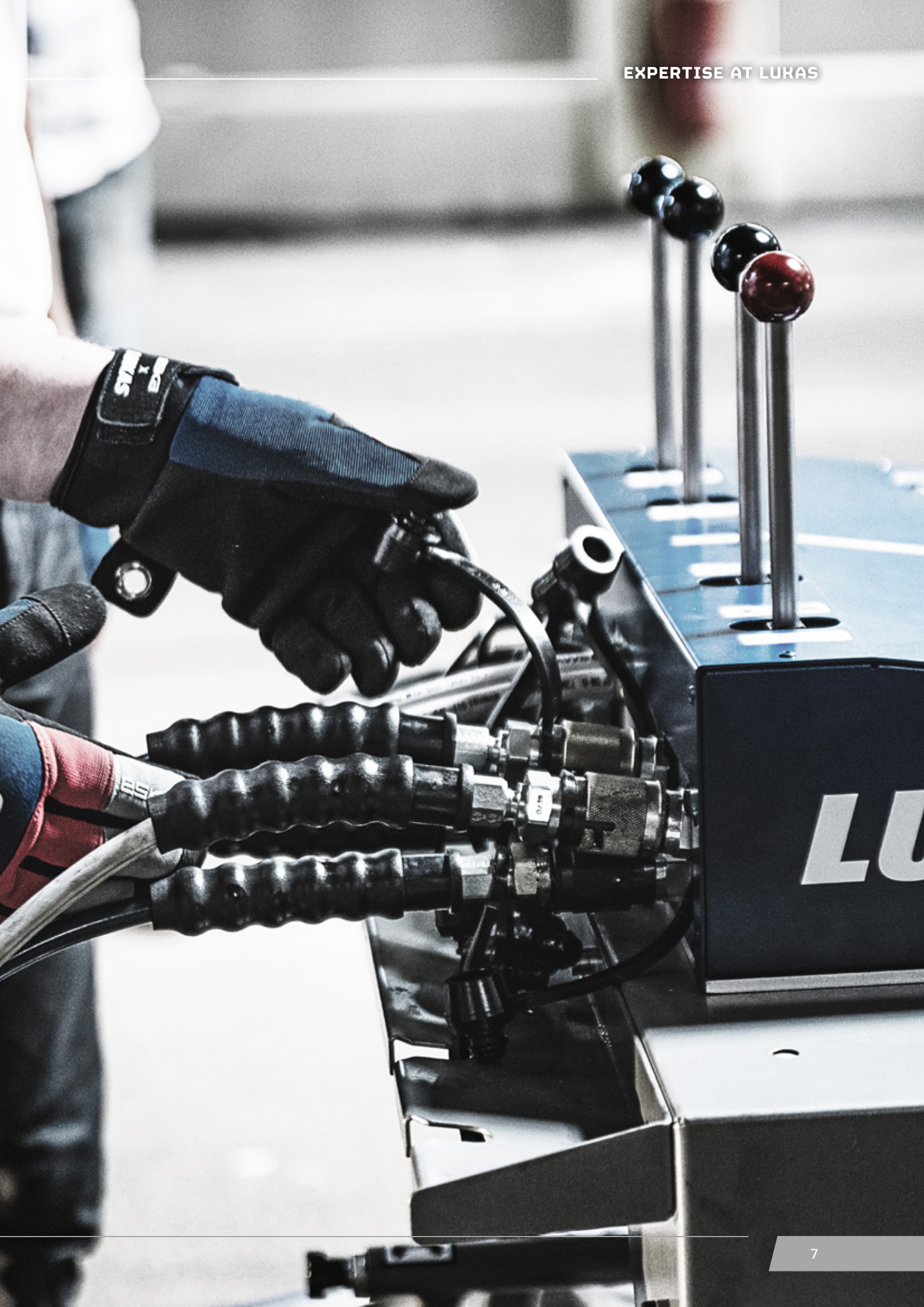
- Internationally proven pressure of 530 bar
- Smart duo traversing system
- Makes work easy and saves valuable time

## COMPACT & LIGHT

- All components are very compact thanks to their high operating pressure and lightweight aluminium design
- More space in your rail-road vehicle
- Transport rerailing equipment easily and effortlessly

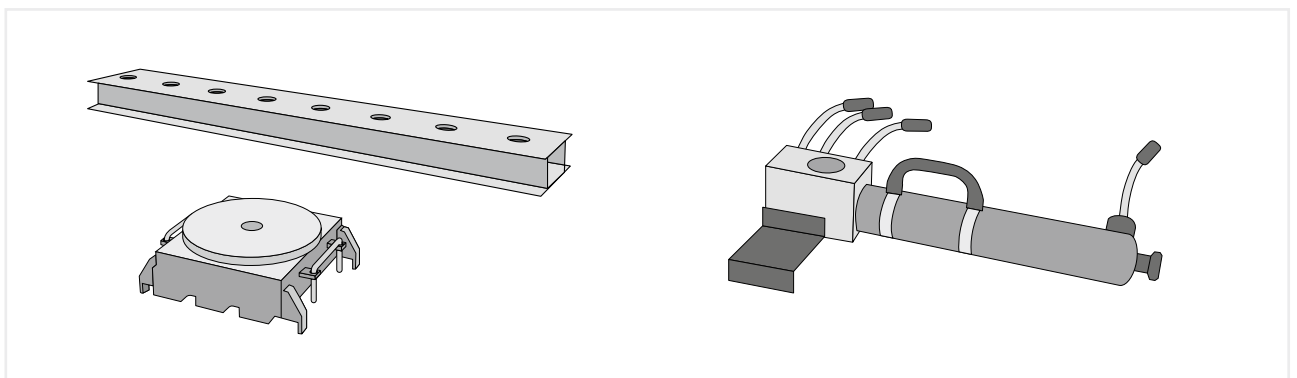
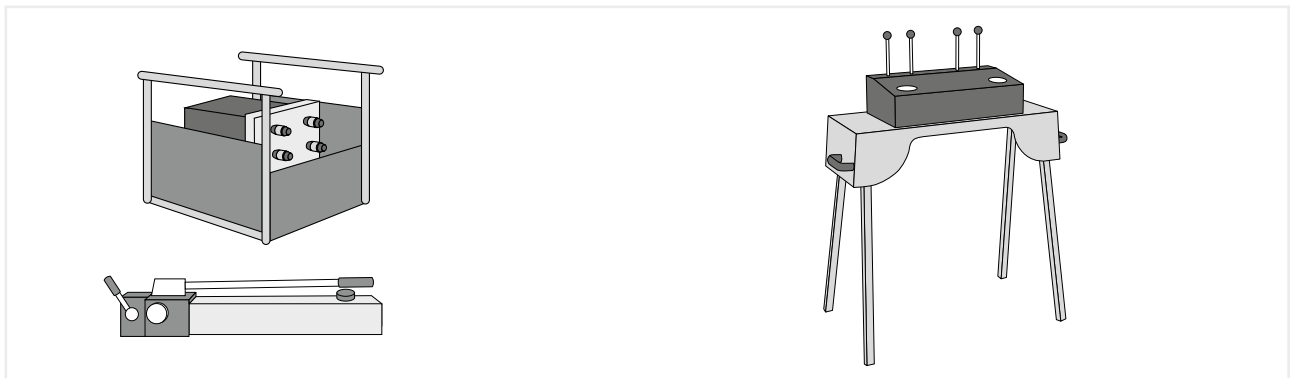
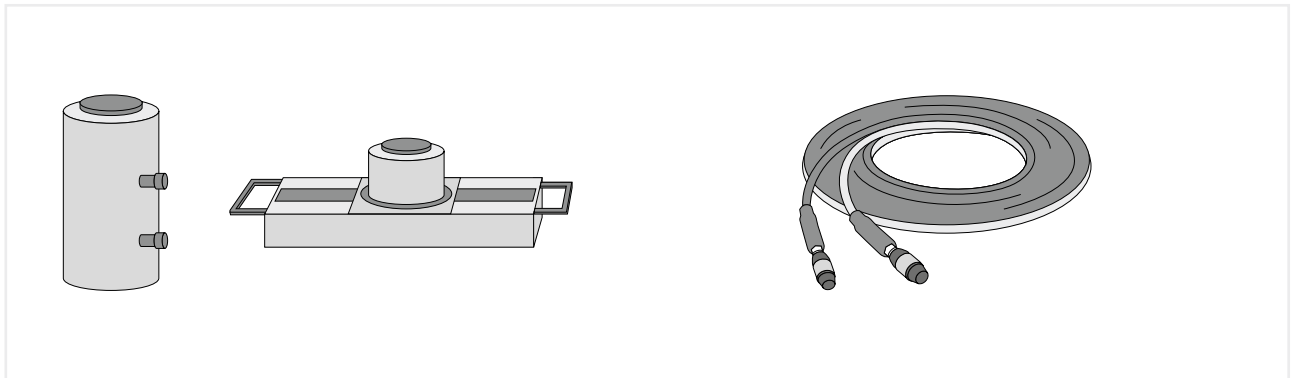
## TOP QUALITY & VERSATILITY

- Rerailing systems are developed and produced in Germany
- Meet the highest quality standards



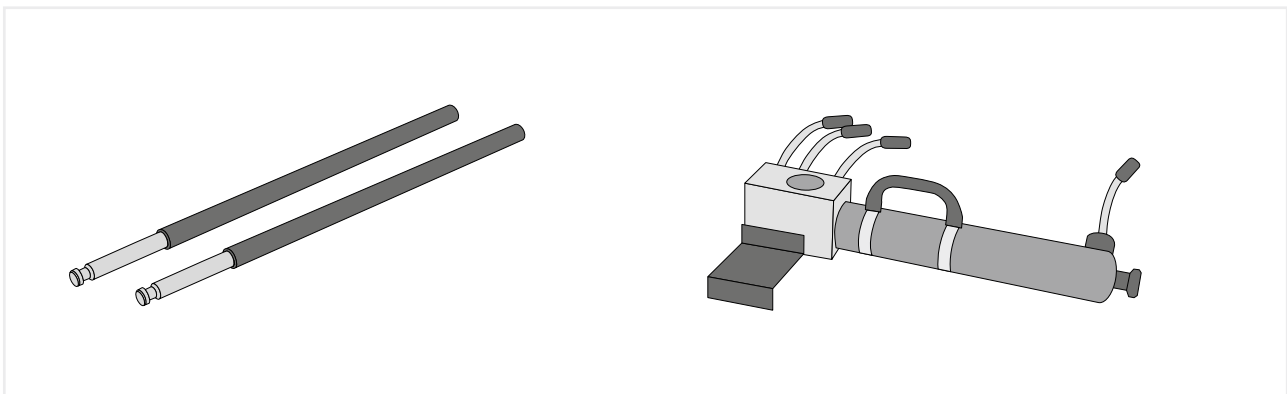
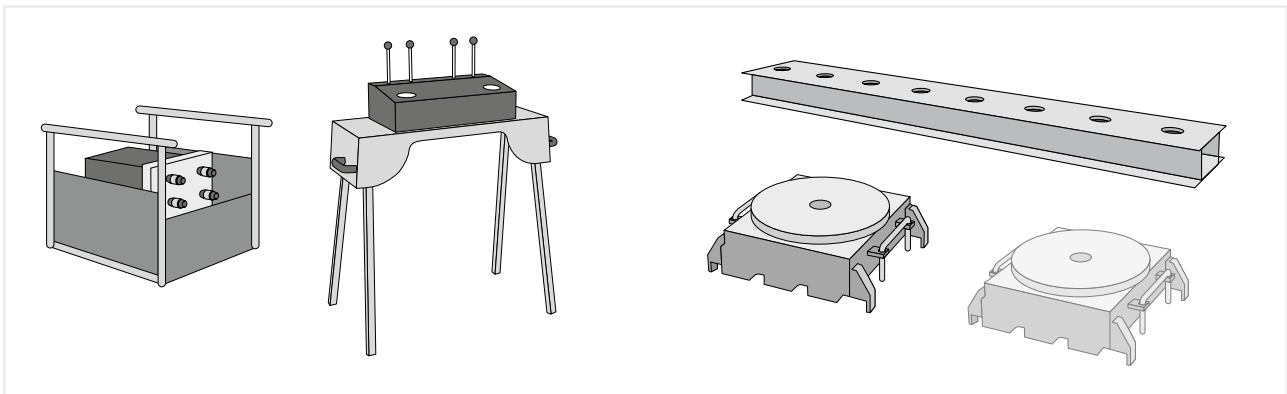
# EXAMPLES OF A BASIC SET UP OF A SYSTEM

## LIGHT TRAIN – 1-POINT-LIFTING

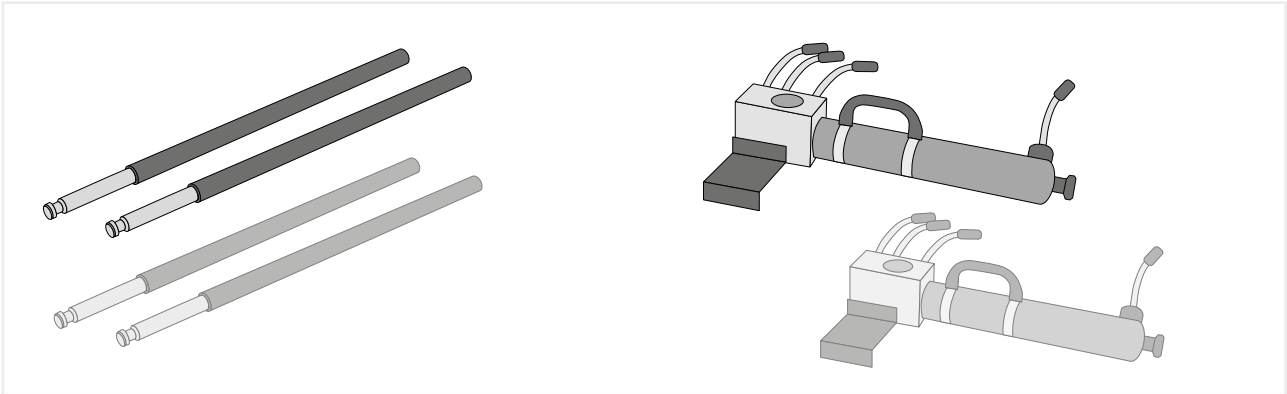
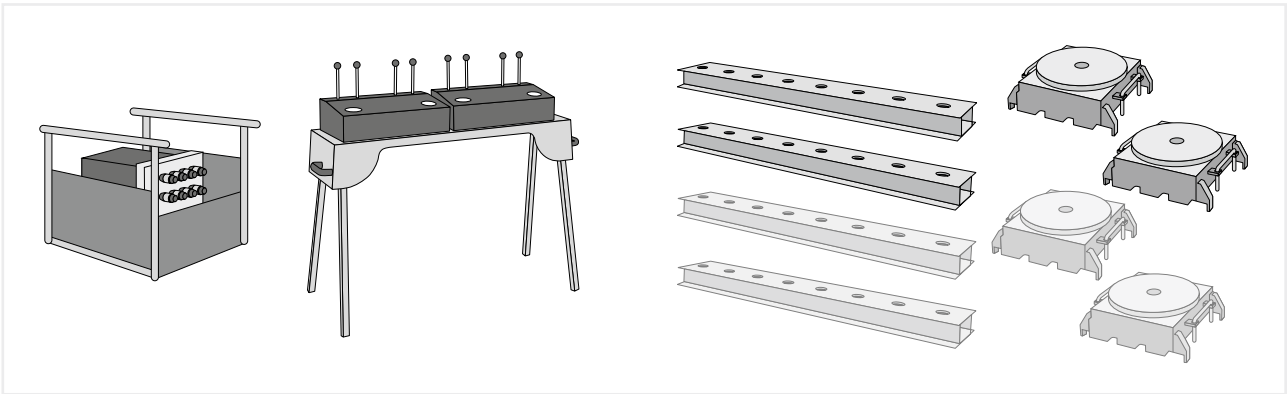
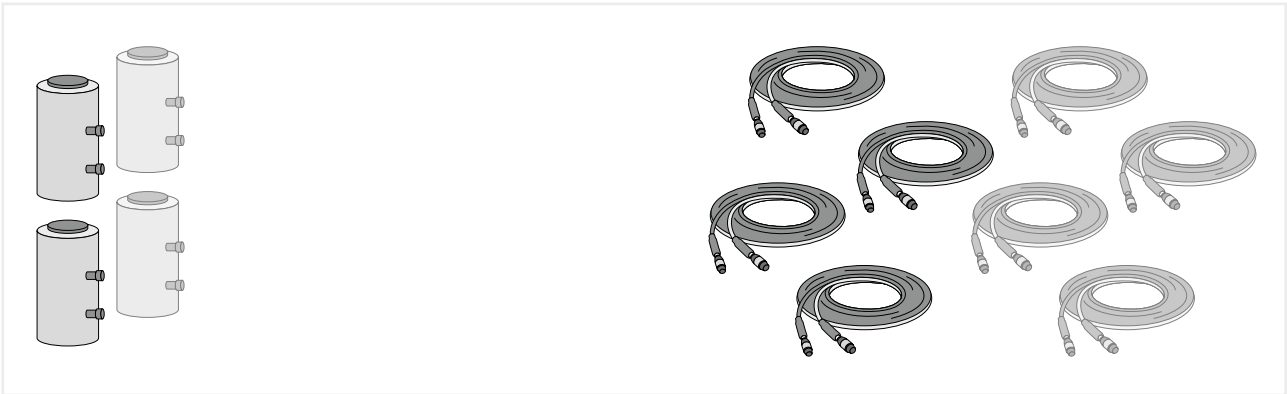




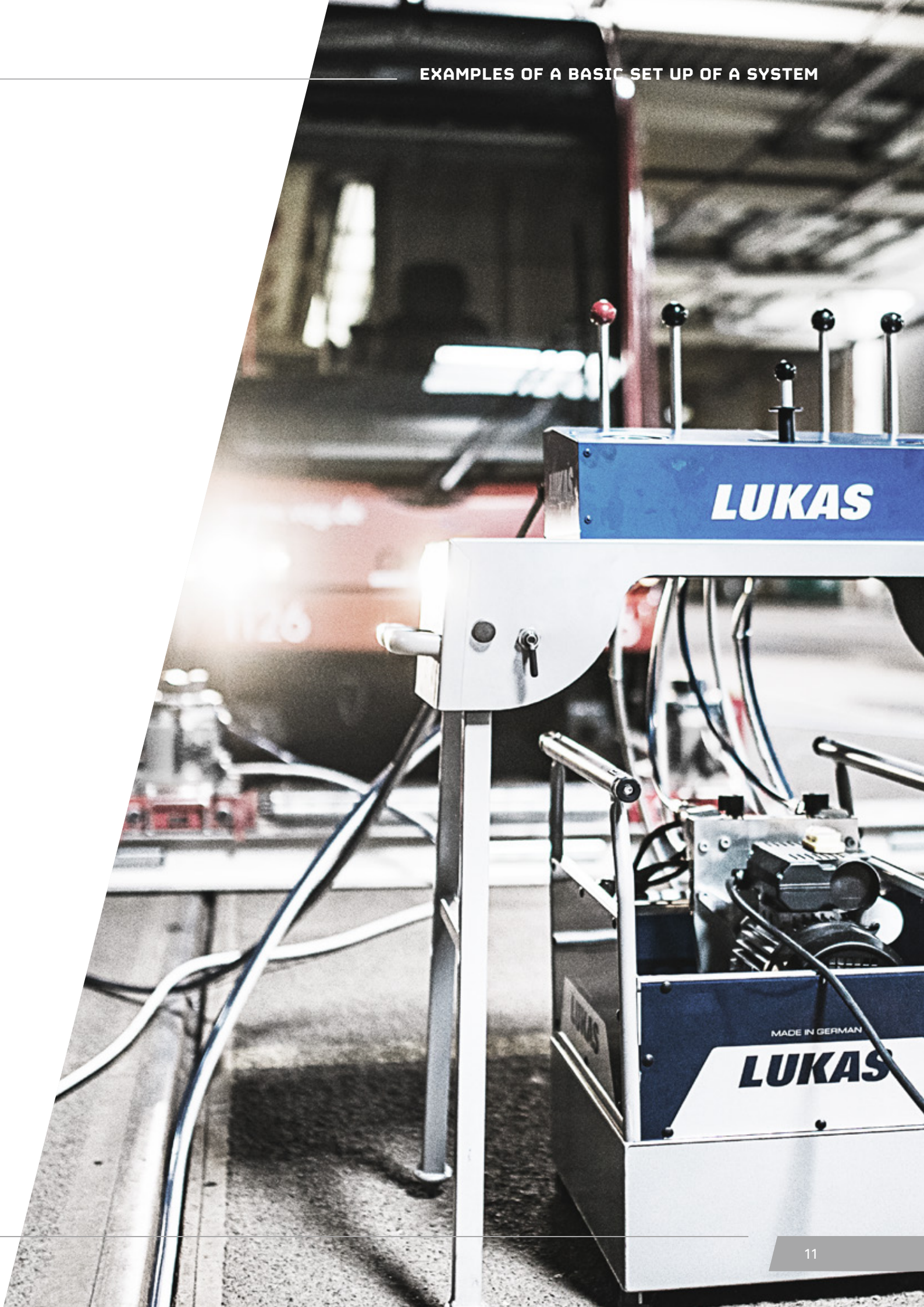
**PASSENGER TRAIN – 2-POINT-LIFTING**



**HEAVY RAIL – 4-POINT-LIFTING**



EXAMPLES OF A BASIC SET UP OF A SYSTEM



## **RERAILING SYSTEMS**

**DON'T LOSE A SECOND –  
TAKE CONTROL OF  
THE SITUATION**

**LUKAS rerailing systems work with hydraulics, allowing even the heaviest rail vehicles to be effortlessly lifted and laterally shifted. The required oil pressure is generated by a high-quality motor pump. The load can be lifted and lowered and the hydraulic cylinders laterally shifted with precision from the control desk.**

Operate our system from a safe distance. Our system counteracts unfavourable load distributions. You will have everything under control.





# CU CONTROL DESK

CU 2DV / CU 4DVV

With the new CU 2DV or CU 4DVV control desk, you can move and rerail derailed vehicles precisely and easily from a safe distance without having to enter the danger area.



CU 2DV

CU 4DVV

## BENEFITS

- Separate oil flows for synchronised lifting
- Precision force control
- User-friendly valve arrangement with automatic spring reset (deadman switch) in case of sudden operator incapacity
- Requires little space: collapsible frame
- Clearly labelled for ease of use
- Optimum stability
- Ergonomically positioned handles for easy transport
- Two different lengths of hoses can be attached

Model	CU 2DV	CU 4DVV
Lift with	2 cylinders simultaneously	4 cylinders simultaneously
Traversing with	1 Duo traversing unit	2 Duo traversing units
Dimensions (L x B x H)	932 x 530 x 1172 mm	1220 x 615 x 1156 mm
Weight	48,5 kg	76 kg



# POWER UNITS

WITH GASOLINE AND DIESEL ENGINE

GC 650-2POWER / GC 650-4POWER / DC 650-4POWER

The powerful motor pumps in the 650 series supply all of your equipment from the unique LUKAS rerailing system with the power you need for your project. It is possible to work with two or four-flow radial piston pumps. Depending upon your requirements, up to four hydraulic cylinders can be supplied with the same oil flows. Extend and retract identical lifting cylinders synchronously from the control desk.



GC 650-2POWER

GC 650-4POWER

DC 650-4POWER

## BENEFITS

- Separate oil flows for synchronised lifting
- Operating pressure 530 bar/53 MPa
- High operating pressure enables compact cylinder design
- Two working speeds for fast extension without load
- Controlled extension and retraction speeds under load
- Easy transport and space-saving storage

Model	GC 650-2POWER	GC 650-4POWER	DC 650-4POWER
Flow capacity low/high pressure	2 × 3.5/1.0 l/min	4 × 2.6/0.7 l/min	4 × 2.6/0.7 l/min
Useable oil quantity	20.0 l	40.0 l	40.0 l
Motor	4-cycle gasoline	4-cycle gasoline	diesel
Motor output	4.8 kW	4.7 kW	4.8 kW
Dimensions (L × B × H)	534 × 456 × 612 mm	534 × 456 × 692 mm	674 × 524 × 783 mm
Weight (incl. hydraulic oil)	78.0 kg	102.0 kg	132.0 kg



# POWER UNITS

WITH ELECTRIC MOTOR

PC 650-2POWER / PC 650-4POWER

The powerful motor pumps in the 650 series supply all of your equipment from the unique LUKAS rerailing system with the power you need for your project. It is possible to work with two or four-flow radial piston pumps. Depending upon your requirements, up to four hydraulic cylinders can be supplied with the same oil flows. Extend and retract identical lifting cylinders synchronously from the control desk.



PC 650-2POWER

PC 650-4POWER

## BENEFITS

- Separate oil flows for synchronised lifting
- Operating pressure 530 bar/53 MPa
- High operating pressure enables compact cylinder design
- Two working speeds for fast extension without load
- Controlled extension and retraction speeds under load
- Easy transport and space-saving storage

Model	PC 650-2POWER	PC 650-4POWER
Flow capacity low/high pressure	2 × 2.6/0.7 l/min	4 × 2.2/0.6 l/min
Useable oil quantity	23.0 l	40.0 l
Motor	230 V – 50 Hz	400 V – 50 Hz
Motor output	2.2 kW	3.5 kW
Dimensions (L × B × H)	533 × 456 × 612 mm	534 × 456 × 692 mm
Weight (incl. hydraulic oil)	76.0 kg	99.0 kg

# HIGH-PERFORMANCE HAND PUMP

ZPH 3/8 – 2 D

Two-stage hand pump for extending telescopic rams. This mobile hand pump allows you to act in an emergency or in environments with a risk of explosion and so you can extend the cylinders by hand. We also recommend the high-performance hand pump for operating the compact traversing unit. This will guarantee a quick, sensitive and precise approach.



Model	HIGH-PERFORMANCE HAND PUMP ZPH 3/8 – 2 D
Oil output rate low pressure	10.8 cm <sup>3</sup>
Oil output rate high pressure	4.2 cm <sup>3</sup>
Capacity of oil reservoir	10.5 l
Usable quantity	8.0 l
Dimensions (L x B x H)	922 x 259 x 221 mm
Weight	21,0 kg

# HYDRAULIC HOSES

10 M / 20 M

Hoses for connecting power units and control desks. Or for jacks and duo traversing cylinders. The hose pair is equipped with safety couplings and is available in two different lengths.



Model	HYDRAULIC HOSES
10 m hose pair	7 kg
20 m hose pair	11 kg



# TELESCOPIC RAMS

HP 10 | T 280 R / HP 16 | T 160 R / HP 25 | T 185 R  
 HP 25 | T 450 R / HP 30 | T 500 R / HP 50 | T 185 R  
 HP 50 | T 400 R / HP 65 | T 400 R / HP 130 | 115 R

LUKAS telescopic and lifting rams are made from a high-strength light metal alloy and are thus particularly light-weight. They are resistant to corrosion and easy to maintain and, thanks to their telescopic design, can manage long piston strokes despite their relatively low height. In addition to their enormous performance, the lifting eyes integrated into their handle bars also make the cylinders easy to transport.

## ▶ BENEFITS

- Optimized hard-anodized finish on cylinder body and piston rod to protect against corrosion and damages
- Corrugated piston guard plates made from high-strength steel
- The piston strokes and forces of the various cylindery are coordinated with each other in detail



HP 10 IT 280 R

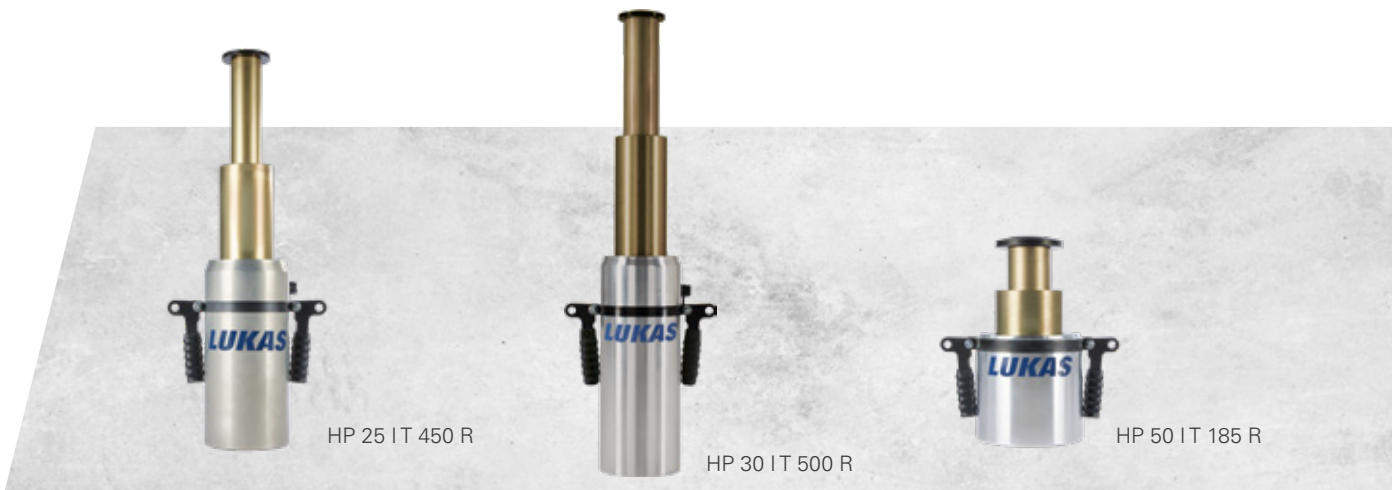


HP 16 IT 160 R



HP 25 IT 185 R

Model	HP 10   T 280 R	HP 16   T 160 R	HP 25   T 185 R
Piston lifting force 1/2/3	650/301/104 kN	875/416/165 kN	650 / 301 kN
Piston stroke 1/2/3	90/94/95 mm	50/51/61 mm	90 / 95 mm
Total stroke	279 mm	162 mm	185 mm
Height	215 mm	169 mm	215 mm
Oil volume	1.4 l	1.1 l	1.3 l
Weight	14.5 kg	15.4 kg	14.6 kg



Rerailing systems

Model	HP 25   T 450 R	HP 30   T 500 R	HP 50   T 185 R
Piston lifting force 1/2	650/266 kN	650/301 kN	1,066/504 kN
Piston stroke 1/2	223/228 mm	250/250 mm	89/96 mm
Total stroke	451 mm	500 mm	185 mm
Height	380 mm	465 mm	234 mm
Oil volume	2.8 l	3.25 l	2.0 l
Weight	23.6 kg	28.6 kg	25.2 kg



Model	HP 50   T 400 R	HP 65   T 400 R	HP 130   115 R
Piston lifting force 1/2	1,066/504 kN	1,665/703 kN	1,349 kN
Piston stroke 1/2	195/204 mm	198/201 mm	115 mm
Total stroke	399 mm	399 mm	115 mm
Height	400 mm	400 mm	272 mm
Oil volume	4.3 l	7.0 l	2.9 l
Weight	41.0 kg	61.2 kg	36.7 kg

# BASE PLATES / LIFT ROD ADAPTERS / TILT ADAPTER PLATES

The base plates increase the cylinder's ground area and improve its overall stability, and are thus indispensable for all lifting work. The lifting adapters serve to lift rail vehicles with lift rods with a radius of 40 mm or 80 mm. Tilt adapter plates protect the cylinders against damage and level movements to an angle of 5°.



<b>Base plates for</b>	<b>HP 10   T 280 R</b>	<b>HP 25   T 185 R HP 25   T 450 R</b>	<b>HP 30   T 500 R</b>	<b>HP 50   T 185 R HP 50   T 400 R</b>	<b>HP 65   T 400 R</b>
<b>Weight</b>	7.2 kg	7.2 kg	7.2 kg	9.2 kg	11.0 kg

<b>Model</b>	<b>TILT ADAPTER PLATES</b>
<b>Load max.</b>	40.0 t
<b>Tilt angle</b>	5 °
<b>Weight</b>	1.1 kg

# STACKING SETS

LUKAS stacking sets increase the maximum lifting height up to 470 mm for extraordinary long strokes.



Stacking sets for	HP 10   T 280 R HP 25   T 185 R HP 25   T 450 R HP 30   T 500 R	HP 16   T 160 R	HP 50   T 185 R
Stacking ring, number/height	4/65 mm	4/40 mm	4/65 mm
Piston ring, number/height	3/65 mm + 1/45 mm	3/40 mm + 1/35 mm	3/65 mm + 1/45 mm
Fork levers, quantity	1	1	1
Stroke extension max.	240 mm	155 mm	240 mm
Total weight	12.2 kg	26.0 kg	21.0 kg

Stacking sets for	HP 50   T 400 R	HP 65   T 400 R	HP 130   T 115 R
Stacking ring, number/height	2/150 mm	3/133,4 mm	1/109 mm + 4/94 mm
Piston ring, number/height	1/20 mm + 1/123 mm + 1/150 mm	1/20 mm + 2/135 mm + 1/100 mm	5/94 mm
Fork levers, quantity	1	1	1
Stroke extension max.	293 mm	390 mm	470 mm
Total weight	22.2 kg	42.2 kgd	47.0 kg

# SPECIAL JACKS

HP 7 | 360 R / HP 10 | 250 R / HP 21 | 300 R

When it comes to vehicles with low ground clearance, LUKAS special jacks are valuable additions to your rerailling concept. The initial lifting of the vehicle is made easy thanks to the internal jacks. Manufacturers may install bayonet adapters in the vehicle floor depending upon the design and weight of the vehicle. In this case, the LUKAS internal jacks are inserted into the vehicle floor and can be extended there.



HP 7 | 360 R



HP 10 | 250 R



HP 21 | 300 R

## BENEFITS

- Double-acting and can be retracted hydraulically
- Internal jacks are equipped with bayonet fittings
- Three types with different capacities and lifting strokes to choose from

Model	HP 7   360 R	HP 10   250 R	HP 21   300 R
Piston lifting force 1/2/3	69 kN	104 kN	204 kN
Piston stroke 1/2/3	360 mm	250 mm	300 mm





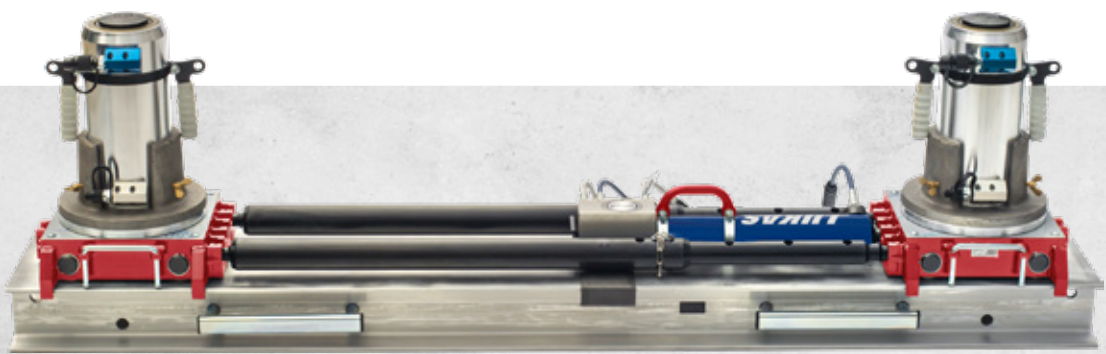
# DUO TRAVERSING UNIT

DUO TRAVERSING UNIT / DUO TRAVERSING UNIT, HEAVY LOAD

ROLLER CARRIAGE / ROLLER CARRIAGE, HEAVY LOAD /  
DISTANCE BARS (SET)

The LUKAS DUO traversing unit with integrated locking pin allows you to perform the entire operation from a safe distance without manual repositioning, even when working with heavy loads. The DUO traversing unit and roller carriage are equipped with lateral guides to ensure straight movement along the bridge.

Integrated sliding plates compensate for vehicle bowing when moving loads. To ensure optimum stability and prevent tilting of the cylinders, LUKAS uses distance bars and roller carriages with smooth roller-bearing-mounted rollers.



DUO traversing unit / DUO traversing unit, heavy load



Roller carriage/  
roller carriage, heavy load



DUO traversing unit/  
DUO traversing unit, heavy load



Distance bars (set)

**BENEFITS**

- Work from the control desk
- Movement in two directions over the entire length of the bridge
- No manual positioning of arresters in the danger area
- Optimises ergonomic body posture
- Integrated sliding plates compensate for the bowing of vehicle
- 90 mm bowing without lowering load and repositioning supports
- Roller carriage with slots to insert distance bars and the DUO traversing unit
- Two adjustable distance bars connect the roller carriages and enable safe traversing on the bridge
- Low total system weight

Model	DUO traversing unit	DUO traversing unit, heavy load
Push/pull force	176/92 kN	337/207 kN
Stroke	320 mm	322 mm
Dimensions (L x W x H)	668 x 363 x 197 mm	685 x 370 x 214 mm
Weight	25.0 kg	44.0 kg

Model	Roller carriage	Roller carriage, heavy load
Permissible load	750 kN	1,000 kN
Height	112 mm	140 mm
Weight	41.6 kg	63.0 kg

Model	Distance bars short (set, adjustable)	Distance bars long (set, adjustable)
Length min./max.	1,030/1,830 mm	1,500/2,800 mm
Weight	40.0 kg	59.0 kg



# RERAILING BRIDGES

85 MM / 140 MM / 184 MM

The rerailing bridge is used as soon as the derailed vehicle has been raised. The vehicle can be moved sideways using either one or two roller carriages (as needed) and the DUO traversing unit, and then lowered onto the rails in the right position.



## BENEFITS

- Rerailing bridges can be connected using connecting elements
- Respond to various track widths
- Three different heights and capacities available

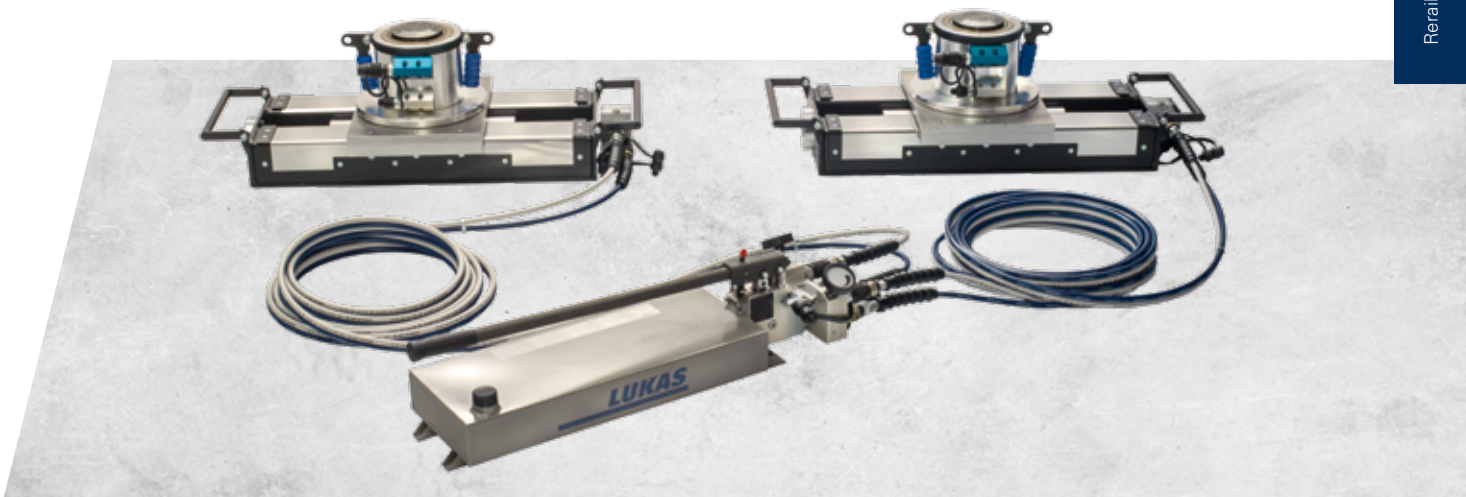
Model	Rerailing bridges			
Length	1.1 m	2.2 m	3.3 m	4.4 m
Width	350 mm	350 mm	350 mm	350 mm
Weight – 85 mm (Low-floor vehicles)	33.0 kg	66.0 kg	98.0 kg	–
Weight – 140 mm	40.0 kg	81.0 kg	118.0 kg	163.0 kg
Weight – 184 mm	70.0 kg	140.0 kg	210.0 kg	280.0 kg

Model	Maximum bridge capacity		
Height	85 mm	140 mm	184 mm
Full support	350 kN	1,000 kN	1,200 kN
With 1 m distance between supports	60 kN	500 kN	900 kN
With 1.43 m distance between supports	50 kN	400 kN	650 kN

# COMPACT-TRAVERSING UNIT

TRAVERSE DISTANCE UP TO 300 MM

When traversing light rail vehicles on a suitable surface, the compact traversing unit is essential for rerailing quickly and with absolute precision. It can be used with one or two units, depending on the weight of the vehicle.



## BENEFITS

- Easy to transport: compact and light
- Quick change of direction directly on the hand pump
- Movable, Teflon®-coated light metal alloy sliding plates compensate for the bowing of the vehicle
- Minimal frictional resistance thanks to stainless steel sliding surfaces

## FACTS

- For single-point lifting: 200 kN (20 t)  
i. e. rail vehicles weighing up to 400 kN (40 t)
- For two-point lifting: 2 × 150 kN (15 t)  
i. e. rail vehicles weighing up to 600 kN (60 t)

<b>Model</b>	<b>Compact traversing unit</b>
<b>Transverse movement up to</b>	300 mm
<b>Dimensions (L × W × H)</b>	865 × 375 × 153 mm
<b>Weight</b>	73.0 kg

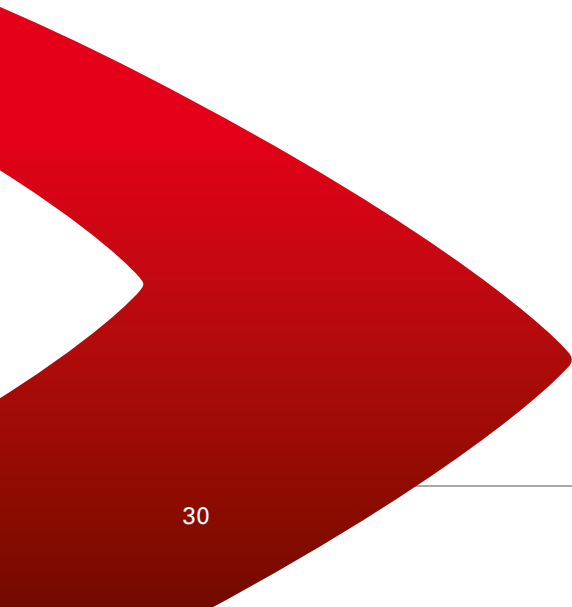
# EQUIPMENT

## THE RIGHT SUPPORT FOR YOUR PROJECT

Safety is our number one priority! The LUKAS team has taken this resolution to heart. Consider, for example, how solidly our cylinders stand when rerailling with the help of the appropriate base plates and lifting adapters or stacking sets.

From A to Z, from uprighting systems to pulling devices, you will be able to find the support you need amongst our equipment.

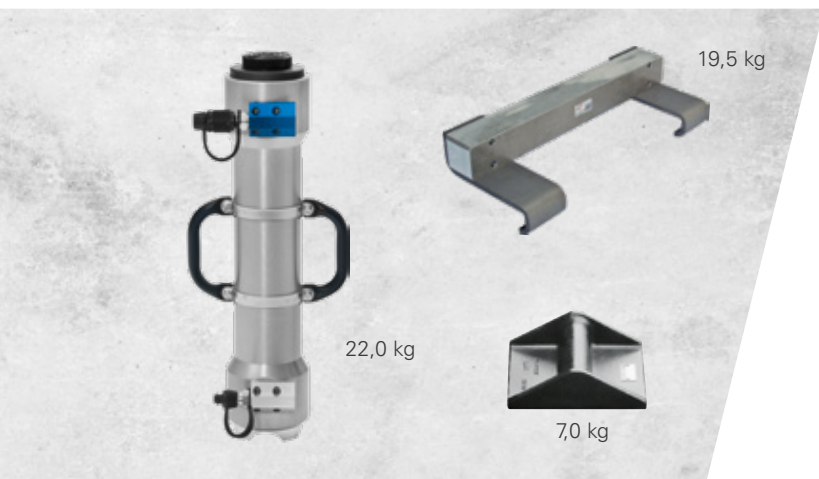
Because it is often the small things that contribute to a successful project outcome. We think operations through with you in detail.





# TILTING JACKS

HP 25 | K 400 R



Some vehicles can be rerailed with a tilting jack, a radius plate and a wheel stop with minimal effort.

The diagonal stroke movement simultaneously lifts and traverses the rail vehicle. The wheel stop halts the traversing movement as soon as the wheels are positioned over the rails.

# AXLE PUSHER

PLUS LFM 10/160 CYLINDER



If the wheels of the vehicle are positioned with the wheel flange on the rails, the axle pusher will push them back into the track. You will also need cylinder LFM 10/160 and the appropriate piston guard plate.

Model	LFM 10/160	Axle pusher
Stroke	160 mm	–
Lifting force	98 kN	–
Weight	4.2 kg	270 kg



# PULLING DEVICE

PUD 200

Vehicles that are wedged or obstacles on the tracks – with the LUKAS towing device, the vehicle can be pulled on the rails.



Model	PUD 200
Pulling force	220 kN
Oil volume	1.0 l
Weight	194.0 kg



# UPRIGHTING SYSTEM

Overturned rail vehicles can be uprighted and railed with ease using the uprighting system.



Model	Claw jacks HP 50   P 850 R	Tilting jacks HP 25   K 400 R	Radius plate
Pressure	500 kN	266 kN	-
Stroke	850 mm	400 mm	-
Height (retracted)	1,150 mm	599 mm	-
Oil volume	6.7 l	1.54 l	-
Weight	53.0 kg	22.0 kg	7.0 kg

Model	Sling	Holding rope	Shackle
Permissible load	400 kN	500 kN	250 kN
Length	-	3,000 mm	-
Weight	51.0 kg	15.0 kg	12.8 kg

## DOLLY AUXILIARY CARS

Blocked or defective rail wheels and wheel sets represent an enormous challenge for rail operators. The LUKAS DOLLY auxiliary car can help you without damaging the rolling stock and rail infrastructure.



Dolly S

Model	S	M	XL	Customised
Scope of use	Metro/Light railway vehicles	Main/Light railway vehicles	Main line vehicles	According to your specifications
Axle load	12,0 – 16,0 t	20,0 t	27,0 t	
Main features	Tool-free mounting	Tool-free mounting	Assembly directly around the defective axle	
Lifting of rail vehicle	approx. 180mm with rerailing system	approx. 200 mm with rerailing system	approx. 30 mm with rerailing system/self lifting	
Weight	120,0 – 175,0 kg	195,0 – 225,0 kg	375,0 – 600,0 kg	

## AUXILIARY CAR ASG 300

Model	ASG 300
Gauge	1,435 mm
Rail vehicles to be towed with running wheel	Ø 630 – 1,250 mm
Pivoting range of rerailing bridge (centre pivot plate)	+/-5°
Axle base	1,300 mm
Running wheel (measuring circle)	Ø 300 mm
Tyre width	135 mm
Wheel flange height	32 mm
Towing speed	40 km/h
Height of running wheel above top of rail (rail vehicle)	17 – 84 mm
Max. load	30 t
Total Weight	630 kg
Modular design, individual component max.	from 71 kg
Dimensions (L x W x H)	1,790 x 1,955 x 332 mm

Blocked or defective rail wheels and wheel sets represent an enormous challenge for rail operators. The LUKAS auxiliary car ASG 300 can help you without damaging the rolling stock and rail infrastructure.



# RESCUE

SAVE TIME.

SAVE LIVES.

LUKAS has been developing hydraulic rescue equipment since 1972. Driven by commitment, passion and innovation, we have been setting standards in the rescue industry ever since. The invention of the rescue cutter, the world's first battery powered rescue equipment and, ten years later, the first battery powered tools for use under water are just three of the many revolutionary developments in our long company history.

With LUKAS rescue equipment you are ideally equipped and can master every application scenario. Top quality and technical sophistication are our standard now and in the future. With the new e<sup>3</sup> generation, the exchange of information between rescuer and device is no longer a vision. From now on, operations will be more effective, smarter and more powerful!

**Everything for a common mission: Saving lives.**





## CUTTER S 789 e<sup>3</sup>

A perfect all-rounder that combines high cutting forces, superior blade geometry and a handy weight.



<b>Model</b>	<b>S 789 e<sup>3</sup></b>
<b>Cutting force up to</b>	1,100 kN
<b>Round steel up to</b>	42 mm
<b>Blade opening</b>	205 mm
<b>Dimensions</b>	912 x 266 x 253 mm
<b>Weight</b>	22.4 kg

## SPREADERS SP 555 e<sup>3</sup>

The LUKAS SP 555 e<sup>3</sup> is the all-purpose weapon among hydraulic spreaders. Low weight and outstanding power development result in an unbeatable combination that is not available a second time in this class. The "Shark-Tooth-Tips" also provide the right grip and prevent slipping from any material.



<b>Model</b>	<b>SP 555 e<sup>3</sup></b>
<b>Spreading force</b>	52 – 658 kN
<b>Spreading distance</b>	730 mm
<b>Squeezing force up to</b>	115 kN
<b>Pulling force up to</b>	58 kN
<b>Pulling distance</b>	569 mm
<b>Dimensions</b>	923 x 265 x 253 mm
<b>Weight</b>	19.9 kg

## COMBI TOOLS SC 358 e<sup>3</sup>

Our mid-range model, the SC 358 e<sup>3</sup> is a true multi-talent: it is powerful, has an impressive spreading path and long cutting edges. With a convincing performance and equipped with the “Shark-Tooth-Tips” for a better grip on the material, the SC 358 e<sup>3</sup> bites its way through any challenge.

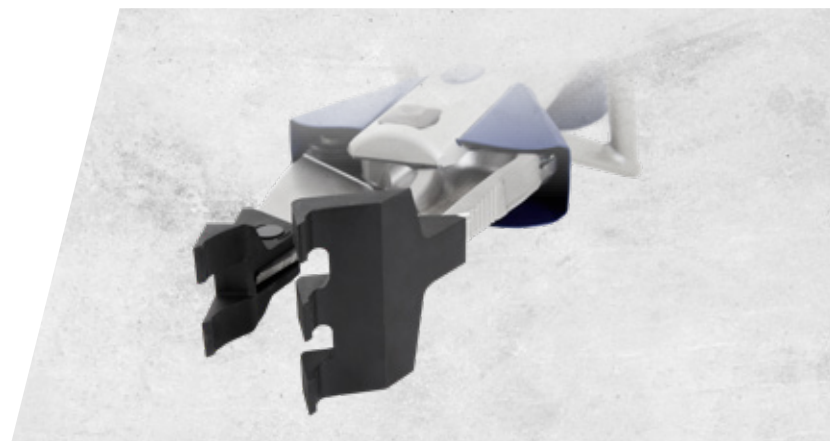
Model	<b>SC 358 e<sup>3</sup></b>
Cutting force up to	492 kN
Round steel up to	35 mm
Spreading force up to	1.500 kN
Spreading force 25 mm inward tip	38 kN
Spreading distance	368 mm
Pulling force up to	61 kN
Pulling distance	382 mm
Dimensions	876 x 235 x 253 mm
Weight	18,4 kg



## SC 358 e<sup>3</sup> DOOR OPENER TIPS SET

The door opener tips have 2-finger and 3-finger tips which fit perfectly into each other when closed and combine a very low egg thrust height with high spreading force. Identical is also the lateral offset of the tips, which allows an optimal insertion into the gap of the door to be opened. Adopted from the standard combination tips, we have the self-explanatory locking bolts, which enable quick changeover of tip types.

Door opener tips set	<b>SC 358 e<sup>3</sup></b>
Weight	2.32 kg
Opening	290 + 15 mm
Content	2-finger and one 3-finger tip
Closure	Locking bolt



# BATTERIES

## 5/9 AH BATTERY



9 Ah

5 Ah

Model	5 Ah	9 Ah
Dimensions	176 x 97 x 70 mm	176 x 97 x 89 mm
Capacity	5.0 Ah	9.0 Ah
Charging Time	1.5 hr.	2.5 hr.
Weight	1.2 kg	1.6 kg

## CHARGER eWXT/e<sup>3</sup> (12-24 V & 100 V-240 V)

## POWER SUPPLY eWXT/e<sup>3</sup> (230 V & 50 HZ)



Battery charger

Power supply

Model	Power supply eWXT/e <sup>3</sup> (230 V & 50 Hz)
Output	1,400 W
Weight	3.25 kg

Model	Battery charger eWXT/e <sup>3</sup> (12-24 V & 100 V-240 V)
Output	max. 150 W
Weight	0.75 kg

# MOBILE POWER UNIT

## P 605 OE



Model	<b>P 605 OE</b>
Power max.	1,6 kW
Operating pressure	700 bar
Delivery rate low-high pressure	2.7-0.6l/min.
Oil volume	5.0 l
Dimensions	457 x 200 x 319 mm
Weight	12.5 kg



# LX LIFT

In addition to our rescue equipment, rerailing technology is another product line that we have been manufacturing and selling at LUKAS for many years. Our newly developed LX LIFT now brings both areas together and provides support in a variety of operational situations when, in addition to the cutter and spreader, cylinders are also needed to lift heavy loads. Our LUKAS telescopic cylinders have a large lifting range and a very low overall height. A wide range of models with different heights, strokes and lifting forces make them suitable for a variety of applications (traffic accidents, railway accidents, building collapses).

<b>Model</b>	<b>LX LIFT</b>
<b>Hydraulic connections</b>	1 x MONO nipple (input), 2 x plug-in coupling (output)
<b>Lifting control valve</b>	2 pieces
<b>Dimensions</b> (ready for use)	234 x 382 x 307 mm
<b>Dimensions</b> (rods on base plate)	234 x 381 x 191 mm
<b>Operation pressure</b>	53 MPa
<b>Weight</b>	11.5 kg



# LX SCOUT

The LX SCOUT is a portable lighting system. It has a variety of fixing options that go far beyond the industrial standard. Its low weight and compact dimensions make it extremely mobile and easy to load on emergency vehicles. Despite its compactness, it has an incomparably high light output of 14,000 lumens. Due to its compatibility with our rescue batteries from the e<sup>3</sup>/eWXT series, it is ideally suited as a set addition to our rescue equipment. The existing IP66 protection class of the SCOUT fits perfectly into our existing portfolio.

<b>Model</b>	<b>LX SCOUT</b>
<b>Light Output</b>	14,000 Lumen
<b>Dimensions</b>	340 x 292 x 278 mm
<b>Weight</b>	4.9 kg



# EMERGENCY PNEUMATICS

## HIGH-PRESSURE LIFTING BAGS – SAFETY FOR EVERY JOB

To complete your rerailing concept, please consider the product portfolio of highly specialised emergency pneumatics from our sister company, VETTER GmbH.

The complete range of pneumatics was fully developed and tested by Vetter's own engineers in Germany. As such, their products guarantee you maximum functionality, even under extreme conditions.

VETTER products are TÜV certified, straight forward and easy to use. They perfectly complement the LUKAS rerailing system, especially when there is a limited insertion height at the lifting point.





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# Lifting Bags S.Tec 12

12 bar / 174 psi



As a further development of the mini lifting bags, all models now require an insertion height of just 2.5 cm. With a dynamic 12 bar operating pressure, they can move up to 102 metric tons. Thanks to their intelligent surface structure, two bags can be stacked on top of one another without any danger, and as such even greater extension heights can be reached.

Working pressure: 12 bar / 174 psi

S.Tec 12 Art.-No.	Lifting power, max.	Lifting height max.	Size L x W	Air requirement at 12 bar	Weight approx.
<b>V1</b> 1316000200	1.3t 1.5 US to	7.4cm 2.9 inch	14x13cm 5.5 x 5.1 inch	4.0l 0.2 cu. ft.	0.5kg 1.1 lbs
<b>V5</b> 1316000300	4.6t 5.1 US to	12.1cm 4.8 inch	25.5x20cm 10 x 7.9 inch	23.2l 0.8 cu. ft.	1.3kg 2.9 lbs
<b>V7</b> 1316000400	7.5t 8.3 US to	15.8cm 6.2 inch	28x28cm 11 x 11 inch	54.0l 1.9 cu. ft.	2.0kg 4.4 lbs
<b>V10</b> 1316000500	10.1t 11.1 US to	17.8cm 7 inch	32x32cm 12.6 x 12.6 inch	120.3l 4.3 cu. ft.	2.6kg 5.8 lbs
<b>V12</b> 1316000600	12.3t 13.5 US to	19.5cm 7.7 inch	35x35cm 13.8 x 13.8 inch	191.3l 6.8 cu. ft.	3.0kg 6.7 lbs
<b>V20</b> 1316000700	20.2t 22.2 US to	24.5cm 9.6 inch	44x44cm 17.3 x 17.3 inch	253.0l 8.9 cu. ft.	4.8kg 10.6 lbs
<b>V26</b> 1316000300	25.9t 28.5 US to	27.0cm 10.6 inch	47x52cm 18.5 x 20.5 inch	279.0l 9.9 cu. ft.	6.2kg 13.7 lbs
<b>V33L</b> 1316000800	33.3t 36.7 US to	19.3cm 7.6 inch	31x102cm 12.2 x 40.2 inch	321.7l 11.4 cu. ft.	8.0kg 17.6 lbs
<b>V35</b> 1316000900	34.7t 38.2 US to	29.9cm 11.8 inch	52x62cm 20.5 x 24.4 inch	479.0l 16.9 cu. ft.	8.2kg 18.2 lbs
<b>V40</b> 1316003500	40.4t 44.5 US to	33.5cm 13.2 inch	61x61cm 24 x 24 inch	603.0l 21.3 cu. ft.	9.3kg 20.5 lbs
<b>V50</b> 1316001000	50.1t 55.2 US to	37.5cm 14.8 inch	67.6x67.6cm 26.6 x 26.6 inch	798.3l 28.2 cu. ft.	11.9kg 26.2 lbs
<b>V59</b> 1316001100	59.4t 65.5 US to	39.3cm 15.5 inch	78x69cm 30.7 x 27.2 inch	1,103.7l 39 cu. ft.	13.9kg 30.6 lbs
<b>V83</b> 1316001200	82.7t 91.1 US to	46.6cm 18.3 inch	86x86cm 33.9 x 33.9 inch	1,646.0l 58.1 cu. ft.	19.1kg 42.1 lbs
<b>V102</b> 1316001300	101.6t 112 US to	51.6cm 20.3 inch	95x95cm 37.4 x 37.4 inch	2,301.3l 81.3 cu. ft.	23.1kg 50.9 lbs

## S.Tec in operation

- Initial lifting with very limited space
- Rescuing trapped person
- Traffic accidents
- Collapsed buildings

## Good reasons for S.Tec

- Stackable due to high-grip surface profile
- Aramid reinforced
- Compatible with 8 + 10 bar filling accessories
- Ideal for use with Vetter Connectable Bags C.Tec 12 (12 bar / 174 psi)

# Connectable Bags C.Tec 12

12 bar / 174 psi



Vetter C.Tec 12 Connectable Bags combine the lifting power of mini lifting bags and the extension height of the renowned Vetter 1 bar lifting bag. Thanks to their tool-free connection technology, the bags are ready to use in just seconds.

Working pressure: 12 bar / 174 psi

C.Tec 12 Art.-No.	Lifting power max.	End lifting capacity max.	Lifting height by end lifting capacity	Lifting height max.	Air requirement at 12 bar	Diameter	Weight approx.	Insertion height
<b>VCB 30 N</b> 1316004600	30.1 t 33.2 US to	7.0 t 7 US to	19.5 cm 7.7 inch	27.5 cm 10.8 inch	328 l 11.57 cu. ft.	56.5 cm 22.2 inch	12 kg 26.5 lbs	7 cm 2.8 inch
<b>VCB 75 N</b> 1316004700	74.7 t 82.3 US to	12.0 t 13 US to	33.2 cm 13.1 inch	43.5 cm 17.1 inch	1,269 l 44.75 cu. ft.	89.0 cm 35.0 inch	22.4 kg 49.4 lbs	7 cm 2.8 inch
<b>VCB 172</b> 1316003900	171.8 t 189.3 US to	15.0 t 16 US to	59.0 cm 23.2 inch	69.0 cm 27.2 inch	5,048 l 178 cu. ft.	135.0 cm 53.2 inch	58.0 kg 127.9 lbs	11.5 cm 4.5 inch

## C.Tec in operation

- Initial lifting with limited space
- Rescuing trapped persons
- Creating accesses
- Natural disasters, building collapses and accidents

## Good Reasons for C.Tec

- Saves resources as little air is required
- Toolless connection technology
- Bags can be used individually or combined
- No draining necessary for disassembly

## Mini Lifting Bags

8 bar / 116 psi



The Vetter Mini Lifting Bags 8 bar are real performance wonders and lift, push, press, prise and split even the heaviest loads with ease – and even in inclined position. They operate silently, smoothly and steplessly.

Due to their multi-layer construction (aramid armouring), which covers each side of the bag broadly, they are extremely robust and at the same time particularly light weight.

Working pressure: 8 bar / 116 psi

Mini Lifting Bags 8 bar / 116 psi Art.-No.	Lifting power max.	Lifting height max.	Size	Air require- ment at 8 bar	Weight approx.
<b>V 1</b> 1314009300	1.0 t 1.1 US to	7.5 cm 3.0 inch	14.0 x 13.0 cm 5.5 x 5.1 inch	2.7 l 0.1 cu. ft.	0.5 kg 1.1 lbs
<b>V 3</b> 1314009500	3.3 t 3.6 US to	12.0 cm 4.7 inch	25.5 x 20.0 cm 10 x 7.9 inch	15.8 l 0.6 cu. ft.	1.0 kg 2.2 lbs
<b>V 5</b> 1314018200	5.7 t 6.3 US to	14.5 cm 5.7 inch	28.0 x 28.0 cm 11 x 11 inch	28.4 l 1.0 cu. ft.	1.4 kg 3.1 lbs
<b>V 6</b> 1314009600	6.4 t 7 US to	16.5 cm 6.5 inch	29.5 x 29.5 cm 11.6 x 11.6 inch	39.6 l 1.4 cu. ft.	1.9 kg 4.2 lbs
<b>V 10</b> 1314002200	9.6 t 10.6 US to	20.3 cm 8 inch	37.0 cm x 37.0 cm 15 x 15 inch	82.8 l 2.9 cu. ft.	3.3 kg 7.3 lbs
<b>V 12</b> 1314002400	12.0 t 13.2 US to	20.0 cm 7.9 inch	32.0 x 52.0 cm 13 x 20 inch	96.3 l 3.4 cu. ft.	3.9 kg 8.6 lbs
<b>V 18</b> 1314002500	17.7 t 19.5 US to	27.0 cm 10.6 inch	47.0 x 52.0 cm 19 x 20 inch	195.3 l 6.9 cu. ft.	5.7 kg 12.6 lbs
<b>V 20</b> 1314011800	19.4 t 21.4 US to	28.0 cm 11.0 inch	48.0 x 58.0 cm 19 x 23 inch	224.1 l 7.9 cu. ft.	6.2 kg 13.7 lbs
<b>V 24</b> 1314002600	24.0 t 26.5 US to	30.6 cm 12.0 inch	52.0 x 62.0 cm 20 x 24 inch	296.1 l 10.4 cu. ft.	7.2 kg 15.9 lbs
<b>V 24 L</b> 1314002700	24.0 t 26.5 US to	20.1 cm 7.9 inch	31.0 x 102.0 cm 12 x 40 inch	211.5 l 7.5 cu. ft.	6.8 kg 15.0 lbs
<b>V 31</b> 1314002800	31.4 t 34.6 US to	37.0 cm 14.6 inch	65.0 x 69.0 cm 26 x 27 inch	517.5 l 18.0 cu. ft.	10.1 kg 22.3 lbs
<b>V 35 L</b> 1314018300	35.8 t 39.5 US to	31.0 cm 12.2 inch	43.0 x 115.0 cm 17 x 45 inch	349.4 l 12.3 cu. ft.	10.0 kg 22.1 lbs
<b>V 40</b> 1314002900	39.6 t 43.7 US to	40.2 cm 15.8 inch	78.0 x 69.0 cm 31 x 27 inch	675.0 l 23.6 cu. ft.	12.2 kg 26.9 lbs
<b>V 54</b> 1314003000	54.4 t 60.0 US to	47.8 cm 18.8 inch	86.0 x 86.0 cm 34 x 34 inch	1,117.8 l 39.5 cu. ft.	17.3 kg 38.1 lbs
<b>V 68</b> 1314003100	67.7 t 74.6 US to	52.0 cm 20.5 inch	95.0 x 95.0 cm 37 x 37 inch	1,457.1 l 51.4 cu. ft.	20.7 kg 45.6 lbs

The Mini Lifting Bags of the **V-Series** are particularly suitable for **temporary applications**, such as:

- Initial lifting with very limited space
- Assembly and maintenance work on machines and other equipment
- Moving and adjusting heavy loads

# Filling of lifting bags

## Accessories



Product	Details	Art.-Nr.:
1 Dual controller Air Cu Lighting		0800019900 (8 bar) 1200001700 (12 bar)
2 Pressure regulator	max. outlet pressure 14 bar (203 psi)	1600031900 (Germany) 1600032000 (USA)
3 Inflation hose	yellow, 5 m	0800000901 (8 bar) 1200002000 (12 bar)
4 Inflation hose	yellow, 10 m	0800007401 (8 bar) 1200002500 (12 bar)
5 Inflation hose	red, 5 m	0800001301 (8 bar) 1200002300 (12 bar)
6 Inflation hose	red, 10 m	0800007601 (8 bar) 1200002800 (12 bar)
7 Adapter set	Including: <ul style="list-style-type: none"> <li>• 2 x air supply hose, 10 m (32 ft.), green with shut-off valve</li> <li>• Truck tyre inflation system adapter</li> <li>• Truck tyre valve</li> <li>• Truck tyre valve connector</li> <li>• Truck compressed air connector</li> <li>• Sealing-off cap</li> <li>• Adapter for construction site compressor</li> <li>• Adapter for stationary compressed air system</li> <li>• Bag 18 x 45 cm (7 x 17.7 inch)</li> </ul>	1600012501
8 Air supply hose	with shut-off valve	1600013601
9 Adapter for portable compressor		1600008200
10 Adapter for construction site compressor		1600012000

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