ROBEL

PRODUCT CATALOGUE WITH ACCESSORIES

Machinery





ROBEL
EFFICIENT. ERGONOMIC. READY FOR USE.

Since 1901, ROBEL has been developing, manufacturing and supplying track construction machines meeting the highest demands on safety and economic efficiency. This is the motivation for the 500 staff at ROBEL's Freilassing site to deliver powerful machines, systems and services for the construction and maintenance of railway infrastructure worldwide.

Powerful client cooperation.

Only those who listen will find out about the requirements of worksite operations. With an international network of representations and service partners, ROBEL is at the heart of local markets. As a result, we develop safe, user-friendly products of high quality.

Powerful machines.

Knowledge paves the way to innovation. ROBEL utilises experience and inventiveness to convert new technologies – also from other industries – into solutions tailored to rail construction, tested on our factory sidings, certified in the region of deployment.

Great service.

Professional customer service keeps machines operational where results are key. The customer decides how intensive the cooperation should be. ROBEL provides a reliable and precise service, from supply of spare parts to a 360-degree service.

Overview of machines & tools

Whatever the challenge on the track: ROBEL has the matching solution. The ROBEL Machines & Tools catalogue provides an overview over the complete portfolio of hand-guided machines and equipment. ROBEL Systems & Vehicles as well as Service & Support can be found in their own product catalogues and as online versions at www.robel.com.

Certified performance

- Quality management system certified to DIN EN ISO 9001:2015
- Environmental management system certified to DIN EN ISO 14001
- Silver Level in EcoVadis CSR rating
- Welding of railway vehicles and components to DIN EN 15085-2
- Adhesive bonding of railway vehicles and components to DIN 6701 (Class 1A)
- Q1 Supplier of DB AG
- TransQ qualification (Scandinavia)
- RISQS certification UK

Strong on the track. Strong on the Internet.

The ROBEL website www.robel.com keeps you up-to-date on new developments relating to our products and offers a digital version of this catalogue for downloading. Our sales team in Freilassing, our field service and the ROBEL agents worldwide will be pleased to assist you with enquiries and requests.

ROBEL. Great on Track.



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The digital future in track construction

ROBEL has the perfect machine for any application. And, with increasing digitisation, we also have the answers to the big issues of infrastructure maintenance: time pressures, shortage of qualified staff, data networking.

Digitised elements and assistance systems not only result in increased efficiency, reproducible work results and complete documentation but also relieve the operator significantly. For even more safety, quality and user-friendliness in track construction.

Overview of digitised functions in our machines

ROBEL can do much more:
Talk to us about your vision of digitisation in track construction: **M&W@robel.com**

BATTERY TECHNOLOGY



ROBEL E³

Powerful battery technology meets reliable mechanics.
Clean, quiet and powerful working.

Our contribution to climate protection and health and safety

ECONOMIC
- Profitability
- Productivity
- Reliability
- Low Maintenance

ECOLOGIC
- Innovation
- Sustainability
- Energy Efficiency
- Carbon Neutrality

ERGONOMIC
- User Friendlyness
- Safety
- Emission Reduction
- HAV-Reduction

ROBATTERY **71.01** **(800 Wh)**



43 V



RODRILL **10.20** **E³**
Battery Powered Rail Drilling Machine



ROBORE **11.20** **E³**
Battery Powered Sleeper Drilling Machine



ROSAW **12.20MSB** **E³**
Battery Powered Rail Band Saw



ROMPACT **30.20** **E³**
Battery Powered Impact Wrench



ROSPIKE **33.25** **E³**
Battery Powered Spike Driver



ROTAMP **62.20L** **E³**
Battery Powered Vertical Tamper



ROPOWER **76.20** **E³**
High Pressure Power Pack

50 V

ROBATTERY 71.02 (2300 Wh)



ADAPTER 71.02 (from 50 V to 43 V)





ROGRIND 13.45MD E³
Welding Joint Grinding Machine



ROGRIND 13.49 E³
Hybrid Rail Head Profile Grinding Machine



ROCUT 13.90 E³
Electrical Rail Cutter



ROGRIND 13.63
Modular Rail and Switch Grinding Machine



ROWRENCH 30.76 E³
Electric Precision Power Wrench



ROWRENCH 30.82HKS E³
Battery Powered Universal Wrenching Machine



ROCLIP 34.01 E³
Battery Powered Clipping Machine



ROCLIP 34.02
Modular Clipping Machine



ROCONVERT 72.01 E³
Battery Conversion Kit

THE ADVANTAGES. YOUR BENEFITS.

Especially powerful
- Powerful batteries especially designed for railway construction
- Highly temperature-resistant
- Robust aluminium housing

Handy. Convenient. Ergonomic.
- Machine ready for use at the push of a button
- Batteries with flexibly selectable power classes
- Battery packs, charger and machines can be combined
- Well legible battery level indicator

Quiet. Emission-free. Clean.
- Low noise
- No exhaust gases, odour nuisance or soiling
- Suitable for tunnels and urban areas

Maintenance-free. Cost-effective. Sustainable.
- Long-life battery cells
- Maintenance-free batteries
- Possibility to read out data (number of charge cycles and battery state of health)
- ROBEL takes back and recycles the batteries

SPECIFICATION	ROBATTERY 71.04	ROBATTERY 71.01	ROBATTERY 71.02
Energy content	144 Wh	800 Wh	2300 Wh
Capacity	8 Ah	18 Ah	46 Ah
Rated voltage	18 V	43 V	50 V
Charging time	1 – 2 h	3 – 4 h	6 – 8 h
Dimensions	135 x 95 x 82 mm	325 x 140 x 150 mm	460 X 370 X 105 mm
Total weight	1 kg	6.3 kg	17.5 kg

Environmental conditions: Service temperature: –20 to +60 °C, Storage temperature: 0 to +23 °C



ROBATTERY 71.04 (144 Wh) – 8007104001



ROBATTERY 71.01 (800 Wh) – 7806800004


ROBATTERY 71.02 (2300 Wh) – 7839900001

SPECIFICATION	ROCHARGER 71.14	ROCHARGER 71.11	ROCHARGER 71.12
Battery charger	144 Wh	800 Wh	2300 Wh
Output	80 W	254 W	588 W
Charge termination voltage	21.6 V	50.4 V	58.8 V
Input voltage	100 – 240 V	100 – 240 V	100 – 240 V
Dimensions	155 x 175 x 80 mm	340 x 200 x 140 mm	245 x 140 x 110 mm
Weight	0.55 kg	3.8 kg	2.54 kg


ROCHARGER 71.14 – 8007114001



ROCHARGER 71.11 – 7806850201


ROCHARGER 71.12 – 7879900201

Environmental protection as a key element of sustainable business practice has a high priority for ROBEL Bahnbaumaschinen GmbH and is actively pursued. Therefore, our company introduced a certified environmental management system in accordance with ISO 14001 in 2018. This system is continuously being developed in order to fulfil our ecological responsibility.

Environmental protection also includes the proper return of batteries. This means that they can be disposed of by the customer on site in an environmentally compatible manner. In cooperation with our partners, we also will take back your ROBEL-batteries throughout Europe to ensure collecting, sorting, recycling and environmentally compatible disposal of all ROBEL-batteries.

ROBEL Battery Performance Classes & CO_2 Saving

TYPE	DESIGNATION	BATTERY PERFORMANCE CLASS 800 Wh	BATTERY PERFORMANCE CLASS 2300 Wh	CO_2-SAVING (Compared with a conventional combustion engine)
10.20 E³	Battery Powered Rail Drilling Machine Number of Drilling operation Ø 32 mm per charge	✓ 70	✓* 200	0.85 kg/OpHr
11.20 E³	Battery Powered Sleeper Drilling Machine Number of drilling operation ø 18mm per charge	✓ 200	✓* 600	1.32 kg/OpHr
12.20MSB E³	Battery Powered Rail Band Saw Number of cuts per charge	✓ 22	✗ –	0.85 kg/OpHr
13.45MD E³	Welding Joint Grinding Machine Grinding time per charge in minutes	✗ –	✓ 60	3.93 kg/OpHr
13.49 E³	Hybrid Rail Head Profile Grinding Machine Grinding time per charge in minutes	✗ –	✓ 60	4.5 kg/OpHr
13.63	Modular Rail and Switch Grinding Machine Grinding time per charge in minutes	✗ –	✓ 60	3.26 kg/OpHr
13.90 E³	Electrical Rail Cutter Number of cuts per charge	✗ –	✓ 20	4.21 kg/OpHr
30.20 E³	Battery Powered Impact Wrenche Number of wrenching cycles per charge	✓ 550	✓* 1600	2.42 kg/OpHr
30.76 E³	Electric Precision Power Wrench Number of wrenching cycles per charge	✗ –	✓ 5000	3.26 kg/OpHr
30.82HKS E³	Battery Powered Universal Power Wrench Number of wrenching cycles per charge	✗ –	✓ 1000	3.26 kg/OpHr
33.25 E³	Battery Powered Spike Driver Number of spikes driven per battery charge	✓ 750	✗ –	1.32 kg/OpHr
34.01 E³	Battery Powered Clipping machine Clipping time per charge in minutes	✗ –	✗ 90	3.26 kg/OpHr
34.02	Modular Clipping Machine Clipping time per charge in minutes	✗ –	✗ 90	4.5 kg/OpHr
43.25	Hydraulic Rail Lifting Device Number of operating cycles per battery charge	✗ –	✓ 150	3,26 kg/OpHr
62.20L E³	Battery Powered Vertical Tamper Tamping time per charge in minutes	✓ 45	✓* 120	1.32 kg/OpHr
72.01 E³	Battery Conversion Kit Number of wrenching cycles per charge 30.82HKS	✗ –	✓ 1000	3.26 kg/OpHr
76.20 E³	High-Pressure Power Pack Battery Number of stressing operations per charge 24.70 Number of trimming operations per charge 14.10	✓ 14 28-32	✓* 40 85	2.34 kg/OpHr

All performance data depends on material, rail profile, rail hardness, operator etc.

* in combination with adapter

RODRILL 10.20 E³ Battery Powered Rail Drilling Machine



RODRILL 10.20 – 7819900011

Easy, efficient and emission-free rail drilling.

THE ADVANTAGES. YOUR BENEFITS.

Short drilling times, reliable result
- Drilling time of approx. 12 – 60 seconds, depending on rail type
- Low wear of drill bits thanks to LED display of motor load

Easy. Flexible. Ergonomic.
- Light and compact machine
- Ergonomic thanks to low hand-arm vibration
- Rail profile templates can be changed without the use of any tools
- Standard or optional clamping device for use on different rails
- LED for illuminating work area
- Universal drill adapter (Quick Lock and Weldon shank)
- Safety due to immediate stop of drill spindle when operating button is released
- Optional with quick-clamping device – assembly / disassembly in under three seconds. Ideal for use in short possessions or for drilling for signalling equipment.

Coolant
- Economical consumption thanks to springloaded valve
- Biologically degradable
- Reservoir with pressure pump

Optional: Machine also available with two-hand operation

SPECIFICATION

Drive	BLDC electric motor
Output	1.6 kW
Max. drilling diameter	40 mm
Number of drilling operations	
Battery 800 Wh	70 drilling operations at 32 mm diameter (*)
Weights	
Rail drilling machine with battery	from 16.3 kg
Battery 800 Wh	6.3 kg
Dimensions (L x W x H)	580 x 230 x 370 mm

(*) Depending on rail profile, rail hardness, drill bit etc.

ACCESSORIES

7806800004 Battery 800 Wh
7806850201 Charger for battery 800 Wh
9000208016 Battery box for battery 800 Wh

DRILLING IN FLAT BOTTOM RAILS
Two rail profile templates each per rail section are required
8204050100 for 49E1/54E3/60E1
8204050210 for 54E1/54E2
Other variants on request. Please provide details of rail profile and drilling height.

7814103002 Quick-clamping device – assembly/disassembly in under 3 seconds.

DRILLING IN GROOVED RAILS
Two rail profile templates each per rail section and a special clamping device are required.
9801040089 Clamping device for grooved rails up to RI60
9801040068 2 additional pressure discs (depending on grooved rail)
8204050150 RI60/DH 75 mm/outside
Other variants on request. Please provide details of rail profile and drilling height.

Core hole drill bits are used in combination with the cooling pin.
With 19 mm Weldon shank, cutting depth 25 mm. Optimal drilling performance for rail web tensile strength up to 900 N/mm².
From Ø 16 mm – Ø 40 mm
9002501657 19 mm
9002501642 30 mm
9002501643 32 mm
9002501654 33 mm
Other diameters available on request.

Core hole drill bits (Quick Lock)
9002508236 Ø 19 mm
9002508234 Ø 30 mm
9002508235 Ø 32 mm
9002508233 Ø 33 mm

9002501646 Short cooling pin for core hole drill bit (use for flat bottom rail)
9002501655 Long cooling pin + 8203550100 Adapter (depending on profile of grooved rail or conductor rail)

Twist drill bits
From Ø 7 mm – Ø 15 mm
9820350220 Ø 13 mm
Adapter for twist drill bit Ø 7 mm – Ø 15 mm
9820350130 Ø 13– 15 mm
Other diameters available on request.

9001511073 Coolant, biologically degradable (5-litre canister)
9001511033 Antifreeze concentrate, 5 litres,
9781890120 Transport and storage box made of aluminium with lockable lid and carrying handles.
9801040005 Aluminium coolant and swarf collecting tray

Multi-hole drilling templates
Precise drilling intervals are achieved by simply inserting the drilling machine into the distance blocks. Distance blocks can be adjusted individually to dimension requested by customer.

The template is applied from the rail end:
8204062001 2-hole
8204062002 3-hole

The template is applied at the continuous rail:
8204062003 4-hole
8204062004 6-hole

If requested, the distance blocks can be adjusted by ROBEL.
Please provide details on rail profile and drilling height, as well as the drilling intervals.


Rail profile templates


Quick-clamping device


Clamping device for grooved rails


Drill bit, adapter and coolant ejector pin


Adapter and twist drill bit


Transport box Antifreeze concentrate

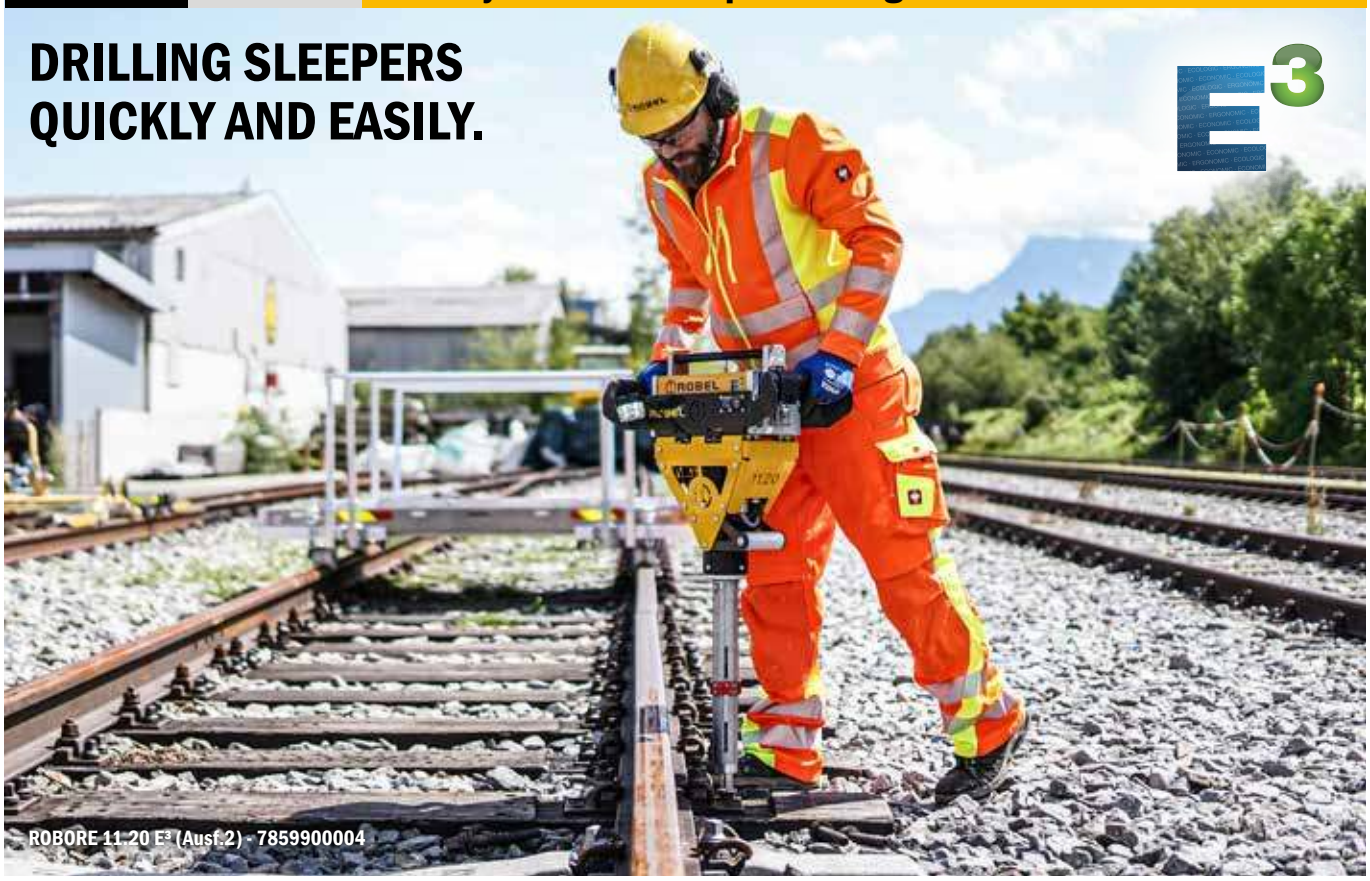
Coolant, collecting tray


3-hole drilling template


6-hole drilling template

ROBORE 11.20 E³ Battery Powered Sleeper Drilling Machine

DRILLING SLEEPERS QUICKLY AND EASILY.



ROBORE 11.20 E³ (Ausf.2) - 7859900004

Portable sleeper drilling machine for drilling wooden and synthetic sleepers.

THE ADVANTAGES: YOUR BENEFITS.

Easy operation
- Light and compact sleeper drilling machine
- Universally adjustable for right- and left-handed people (Version 01)
- Depth stop can be adjusted on scale quickly and without the use of any tools
- Drill bit can be changed swiftly and without the use of any tools
- Flexible application in urban areas and in tunnels

Emission-free and safe
- No exhaust emissions
- Drill protection sleeve for drilling and transport

Available in different versions
- Clockwise/counter-clockwise rotation (Version 02)
- Very low Hand-arm vibrations (Version 02)
- Low noise emissions (Version 02)

NOTE:
The sleeper drilling machine can be operated with MilwaukeeM18 FUEL ONE KEY 1" battery powered impact wrench with snap ring (not included in scope of delivery).

SPECIFICATION	Version 01	Version 02	Version 02 Flex
Drive	Milwaukee M18 FUEL ONE KEY 1	BLDC electric motor	BLDC electric motor
Adjustable driilling depth	up to 200 mm	up to 200 mm	up to 200 mm
Drilling diameter	13 - 25 mm	13 - 25 mm	13 - 25 mm
Drilling duration (wooden sleeper)	approx. 3 seconds	approx. 3 seconds	approx. 3 seconds
Drill bit change	approx. 30 seconds	approx. 30 seconds	approx. 30 seconds
Dimensions (L x W x H)	100 x 315 x 800 mm	230 x 540 x 1030 mm	230 x 540 x 1015-1105 mm
	(without impact wrench)	(without battery)	(without battery)
Weight			
Machine	10.9 kg (incl. Impact wrench)	14.0 kg (incl. battery)	15.3 kg (incl. battery)
Height adjustment	No	No	Yes

ACCESSORIES

Sleeper drill bits
Automatic feed by screw point, made of tool steel, single-blade without taper tap, total length 457 mm with hexagonal adapter

9002508251	Sleeper drill bit ø 15 mm, for wooden sleepers
9002508252	Sleeper drill bit ø 16 mm, for wooden sleepers
9002508260	Sleeper drill bit ø 17 mm, for wooden sleepers
9002508250	Sleeper drill bit ø 18 mm, for wooden sleepers
9002508254	Sleeper drill bit ø 20 mm, for wooden sleepers
9002508253	Sleeper drill bit ø 21 mm, for wooden sleepers

Centering tips

7858930110	Centre tip for 11-18 mm drill bit / 26 mm ribbed base plate
7858930140	Centre tip for 19-20 mm drill bit / 26 mm ribbed base plate
7858930150	Centre tip for 21-22 mm drill bit / 26 mm ribbed base plate

Other drilling diameters and centring tips available on request.

Additional accessories

7858930130V	Circular level for ensuring vertical hole
9899890100	Shoulder strap

Accessories for Version 01

9002100434	Socket wrench 1“ on AF 22 mm

Accessories for Version 02

7806800004	Battery 800 Wh
7806850201	Charger for batteries 800 Wh
9000208016	Battery box for battery 800 Wh

ROSAW 12.20MSB E³ Battery Powered Rail Band Saw

With patented 4-roller technology.

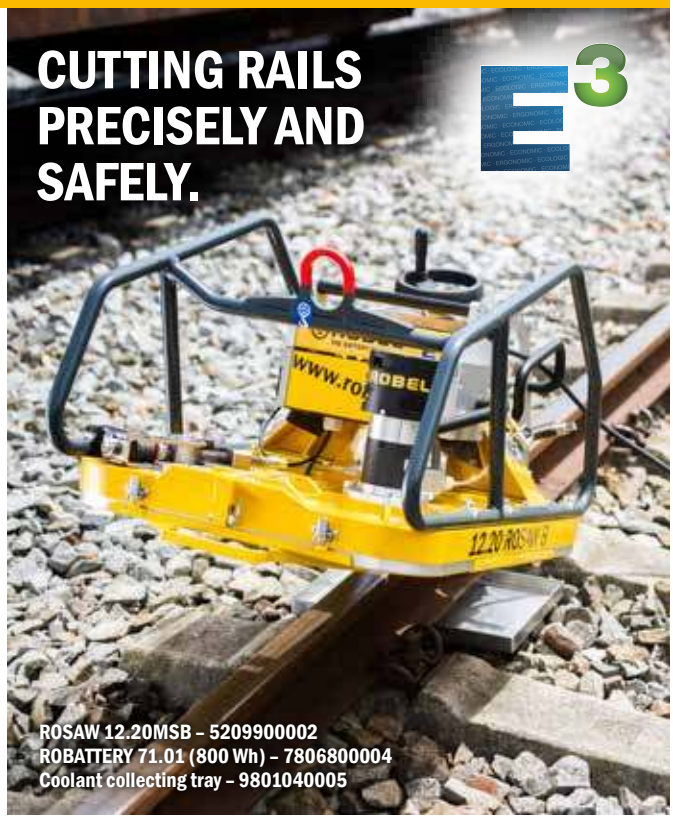
THE ADVANTAGES. YOUR BENEFITS.

Safe and ergonomic
- The saw blade is protected inside the frame and works without sparking
- Low noise, without exhaust emissions and grinding dust
- Minimum hand-arm vibrations
- No holding and guiding during cutting required
- LED for illuminating work area

Very high quality of cut
- Constant cuts, verifiable on cutter display
- Precise cold cutting without heating the rail
- Stress cracks are avoided

Economic and efficient
- Long life of machine
- Long service life of saw blade
- Speedy replacement of saw blade without tools
- No reworking required

Ideal in combination with ROSTRESS 24.70 rail stressor.
Recommended application: For neutral rail temperature or tensile stress in the rail. Ideally suited for night work (low noise emission) and low temperature in the rail.



SPECIFICATION

	Manual feed
Drive	BLDC electric motor
Output	1.6 kW
Feed	manual
Cutting time	approx. 2 min (*)
Number of cuts per battery charge	
Battery 800 Wh	approx. 22 (*)
Saw blade service life	
Unhardened rails	15 – 20 cuts (*)
Hardened rails or tough steel	up to 8 cuts (*)
Weight	
Rail band saw	45 kg
Tensioning block	19 kg
Battery 800 Wh	6.3 kg
Dimensions (L x W x H)	951 x 595 x 685 mm

(*) depending on rail profile, rail quality etc.

ACCESSORIES

7806800004	Battery 800 Wh
7806850201	Charger for batteries in 800 Wh
9000208016	Battery box for battery 800 Wh
9801272008	Band saw blade
9001511073	Coolant (5 litre canister)
9801040005	Coolant collecting tray
5098960001	Transport box


Charger for batteries 800 Wh

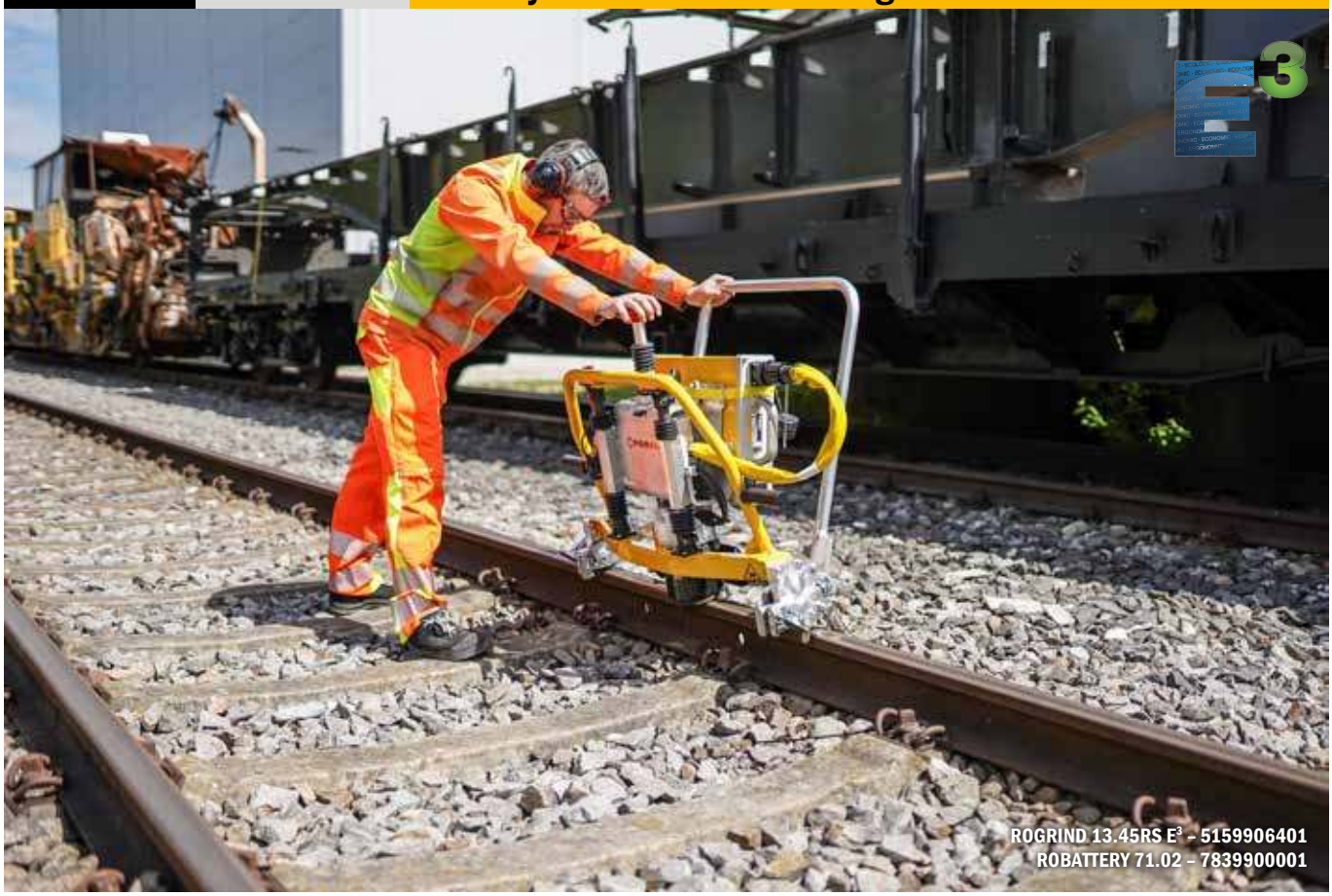

Battery 800 Wh

Rail profile templates (2 required)

8204050100	for 49E1/54E3/60E1
8204050210	for 54E1/54E2

Other rail profile templates on request.

ROGRIND 13.45RS E³ Battery Powered Rail Grinding Machine



For precise grinding of welding joints and for reprofiling the complete rail head.
Can also be used in switches, for frogs and for grinding grooved rails.

THE ADVANTAGES. YOUR BENEFITS.

- **Visibility:** Optimal visibility of the rail during operation
- **Ergonomics:** Optimal ergonomics thanks to perfect weight distribution
- **Weight:** Excellent balance between machine weight and performance ratio
- **Features:** LED lighting
- **Easy:** Machine is ready at the press of a button
- **Fast grinding:** The most powerful electric motor in its weight class
- **Grinding throughput:** at least 60 minutes of continuous grinding (depending on rail profile, trimmer, grinding wheel, etc.)

SPECIFICATION

Versions	5159906401	5159906402
Drive	BLDC electric motor	BLDC electric motor
Output	6.6 kW	6.6 kW
Weight		
Machine without battery	44 kg	48 kg
Battery 2300 Wh	17.5 kg	17.5 kg
Roller Spacing	850 mm	1000 mm
Dimensions (L x W x H)	1080 x 520 x 790 mm	1060 x 550 x 920 mm
Guiding handle	left	right
Guiding system	Universal guiding system	Rail guiding system
Hand wheel	small (100 mm)	big (160 mm)
Cup wheel	Ø 125 mm M20	Ø 150 mm M20

ACCESSORIES

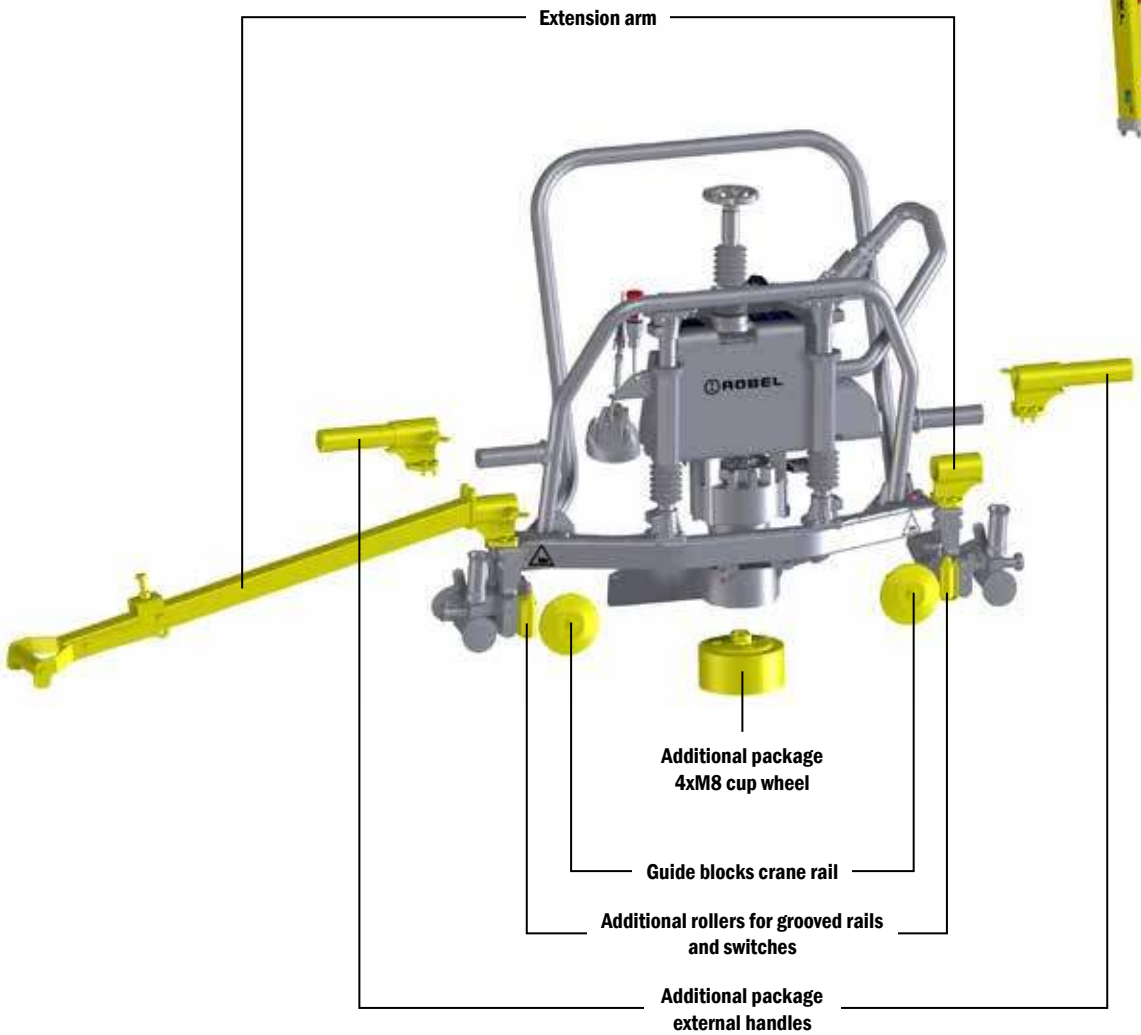
5158930018	Extension arm
5158930019	Additional rollers for grooved rails and switches
9000200182	Steel wire brush
8931002007	Centring nut, fixings for steel wire brush
5158930023	Additional package 4xM8 cup wheel
5158930016	Guide blocks crane rail
5158930027	Guide blocks grooved rail
5158930025	Additional package external handles

Cup Wheels

9002000687	Ø 125 mm central nut holder M20
9002000689	Ø 150 mm central nut holder M20
9002000691	Ø 90 mm central nut holder M20
7839900001	Battery 2300 Wh
7879900201	Charger for Battery 2300 Wh
9000208017	Battery Box for 2300 Wh Battery



Battery 2300 Wh



ROGRIND 13.45MD E³ Welding Joint Grinding Machine



For grinding welding joints and for reprofiling the complete rail head.
Can also be used in switches and for grinding grooved rails and crane rails.

THE ADVANTAGES. YOUR BENEFITS.

Simple and practical.
- Choice between battery power or power pack
- Interchangeable guiding system for various applications
- Easy changing of cup wheel thanks to Quick Lock
- Non-projecting carrying handles allow for easy transport and easy storage
- LED lighting
- Ideal for use in tunnels and urban areas

Light-weight machine. Powerful grinding.
- The most powerful electric motor in its weight class for fast grinding
- No set-up time
- Rotational resistance can be adjusted at spindle hand wheel as required, without the use of any tools
- Grinding throughput: at least 60 minutes of continuous grinding (depending on rail profile, trimmer, grinding wheel etc.)

SPECIFICATION

Drive	BLDC electric motor
Output	6.6 kW
Weights	
Machine	from 40 kg
Battery 2300 Wh	17.5 kg
Power supply	18 kg
Copy roller spacing	850 mm
Dimensions (L x W x H)	1036 x 500 x 900 mm

INDIVIDUAL CONFIGURATION OPTIONS

1. **Guiding systems**
   Rail guiding system
   Universal guiding system
   Grooved rail guiding system
   Crane rail machining set (up to rail head width 120 mm)
   Guiding system for small flat bottom rails

2. **Guiding handle**
   Guiding handle left
   Guiding handle right

3. **Carrying handles**
   Inside carrying handle
   Outside carrying handle
   Bow-type handle

4. **Hand wheel**
   Hand wheel Ø 100 mm
   Hand wheel Ø 160 mm

5. **Grinding spindle**
   Standard grinding spindle
   Raised grinding spindle

6. **Foldable spark protection**

ACCESSORIES

Multi-Drive-Technologie

7839900001	Battery 2300 Wh
7879900201	Charger for battery 2300 Wh
5039900003	Power supply 400 Volt
9000208017	Battery box for battery 2300 Wh

Accessories grinding machine

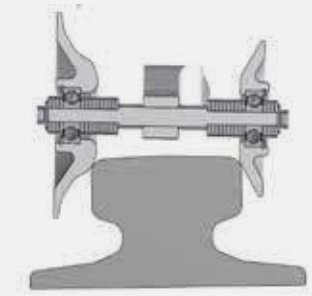
5158930001	Multiroller carrier (2 required)
5158931002	Extension arm for frog noses
5158930014	Crane lifting eye

Cup wheels

9878081000	Ø 90 mm conical for frog noses and switches, central nut holder M20 (also suitable for the running surface of grooved rails)
9002000330	Ø 90 mm cylindrical for built-up welds, central nut holder M20
9002000687	Ø 125 mm central nut holder M20
9002000688	Ø 125 mm screw fastening 4xM8, pitch circle Ø 90 mm

Other cup wheels on request.

9000200182	Steel wire brush e.g. for removing rust from rails (not to be used without centring nut)
8931002007	Centring nut, fixings for steel wire brush



5150850003



7839900001



5039900003

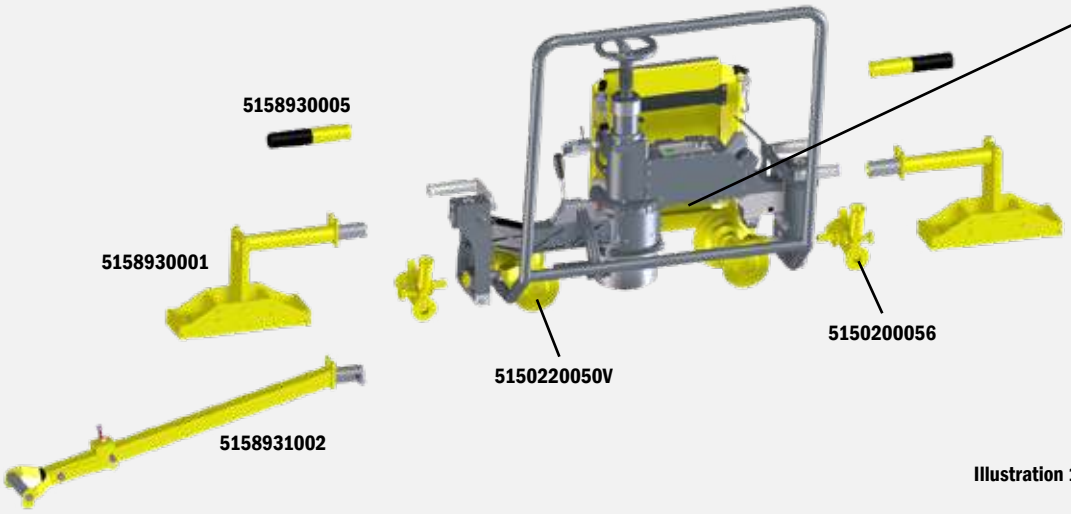


Illustration 13.45MD – Right-hand design

Do you require a different design?
Please get in touch with your ROBEL contact.

ROGRIND 13.49 E³ Hybrid Rail Head Profile Grinding Machine



One machine. Three modules.
Precisely ground face in a short time with intelligent use of energy.

THE ADVANTAGES. YOUR BENEFITS.

Precisely ground face in a short time
- Faster working due to constantly high grinding power
- High grinding quality and clear view of the grinding area due to compact, low-vibration electric motor
- Patented ROBEL finish-grinding procedure for localised away from the operator reworking

Intelligent use of energy
- Loss-free power transmission from electric motor straight to grinding spindle
- ROBEL supercap in power pack: Excess energy stored during idling of grindstone – released during load peaks
- Other drive versions (battery, power supply) available

Smart positioning, smooth grinding
- Easily transport grinding unit and power pack separately
- Effortless operation due to split machine weight of less than 60 kg each
- Comfortable handling of machine due to ergonomic telescopic handles which are individually adjustable

Greater work safety, higher efficiency
- Low hand-arm vibration
- Optimum view of the display at an ergonomic angle of the compact, low-vibration electric motor
- Integrated dust and spark protection due to air exhausted
- Work at a safe distance from exhaust gases, heat and engine noise

SPECIFICATION

Drive	BLDC electric motor
Continuous rating	6.6 kW (ROPOWER 70.03 + ROBATTERY 71.02)
	3.0 kW (ROPOWER 70.02)
Maximum power	7.0 kW (ROPOWER 70.02)
Circumferential speed	50 m/s
Cup wheel diameter	150 mm
Speed	5000 rpm
Roller spacing	1000 mm
Depth feed of grinding spindle	electric
Dimensions (L x W x H)	1950 x 460 x 850 mm
Without telescopic handles (L x W x H)	1750 x 410 x 850 mm
Weight machine	from 56.5 kg
Weight outrigger	from 8.5 kg

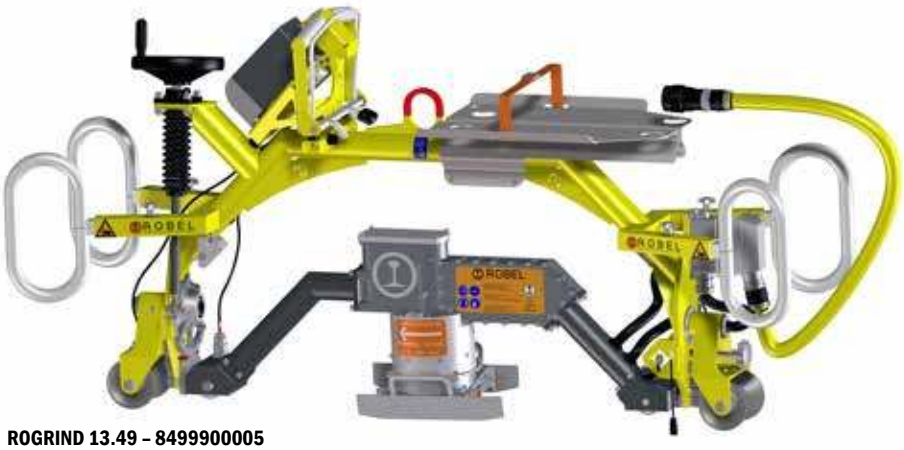
ACCESSORIES

5029900002 Hybrid drive unit with Honda GX200 four-stroke engine
5026930001 Discharging box for discharging the supercaps for maintenance work
5039900003 Power supply 400 Volt (incl. shoulder strap)
7839900001 Battery 2300 Wh
7879900201 Charger 2300 Wh
5016060200 Extension cable (for battery 2300 Wh)
9000208017 Battery box for battery 2300 Wh
8490800002 Outrigger, gauge 1435 mm

Other gauges on request.

9002000690 Ø 150 mm central nut holder M20

Other cup wheels on request.



ROGRIND 13.49 – 8499900005
Outrigger – 8490800002



Battery 2300 Wh – 7839900001

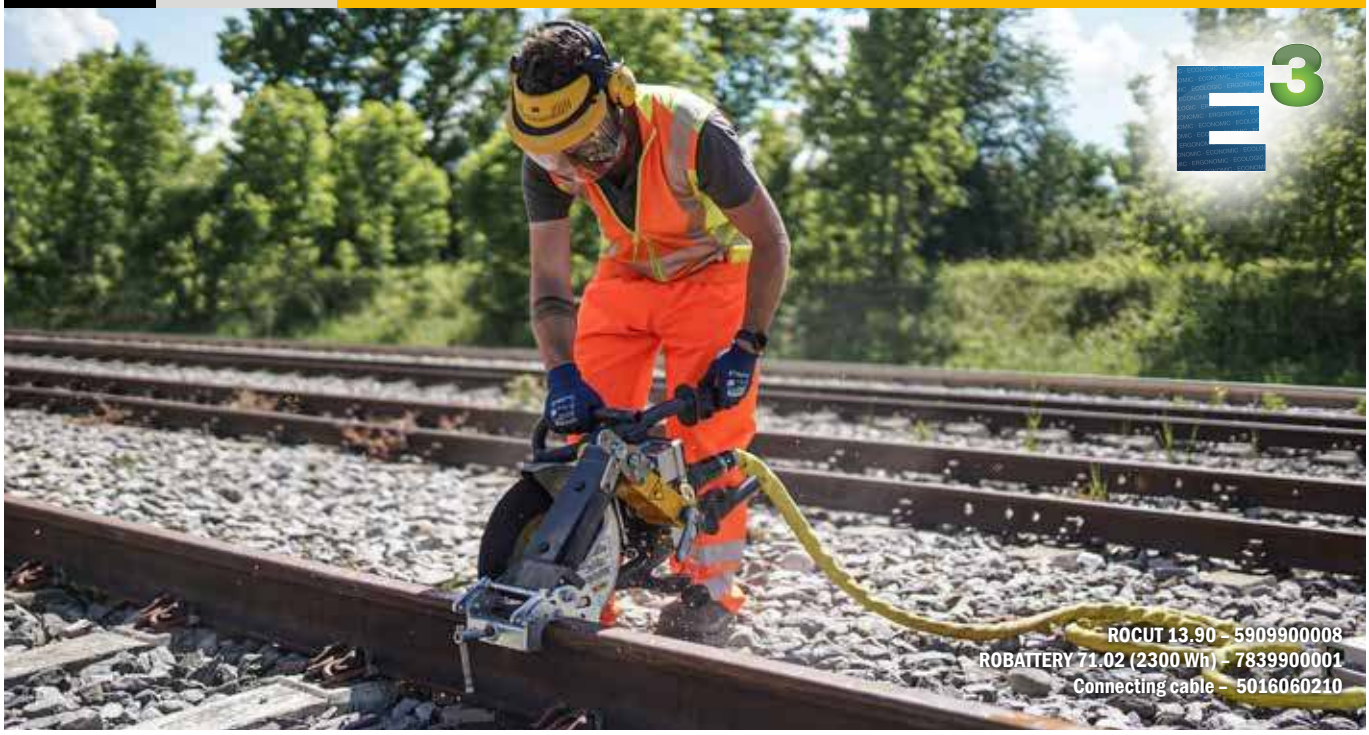


400 Volt power supply – 5039900003



ROPOWER 70.02 – 5029900002

ROCUT 13.90 E³ Electrical Rail Cutter



For fast and efficient cutting of maximum strength rails.

THE ADVANTAGES. YOUR BENEFITS.

High flexibility
- Light-weight and sturdy rail cutter due to light-weight aluminium construction
- Rails can be cut from both sides with sparks controlled downwards without changeover
- Multi Drive technology: one machine, various drive options
- Extended operational range in tunnels and urban areas
- Can also be used for flat bottom, grooved and crane rails (claw can be adjusted up to 120 mm rail head width)
- Socket wrench mounted on machine

Ergonomic and safe
- Continuously adjustable spark protection
- Articulated arm supports machine weight and relieves the operator
- Low hand-arm vibrations
- LED lighting
- Electronic safety shut-down

Accurate and powerful
- Kerf indicator for accurate determination of cutting point
- Cutting rate approx. 20 cuts on 60E1 rail/battery charge (depending on cutting disc and operator etc.)
- Integrated LED performance display for cut monitoring
- Brushless electric motor

SPECIFICATION	Ø 350 mm cutting disc	Ø 400 mm cutting disc
Drive	BLDC electric motor	BLDC electric motor
Output	6.6 kW	6.6 kW
Cutting disc diameter	350 mm/14“	400 mm/16“
Cutting disc holder	22.2 mm	22.2 mm
Cutting rate (*)	approx. 1 min/cut for 60E1 rail	approx. 1 min/cut for 60E1 rail
49E1	up to 8 cuts/cutting disc	up to 10 cuts/cutting disc
60E1	up to 6 cuts/cutting disc	up to 8 cuts/cutting disc
Weight		
Rail Cutter	18.1 kg	18.9 kg
Articulated aluminium arm	9.3 kg	9.3 kg
Cutting disc	0.9 kg	1.1 kg
Total machine weight	28.3 kg	29.3 kg
Connecting cable	5.7 kg	5.7 kg
Battery 2300 Wh	17.5 kg	17.5 kg
400 Volt power supply	18.0 kg	18.0 kg
Dimensions (L x W x H)	765 x 330 x 490 mm	815 x 330 x 540 mm

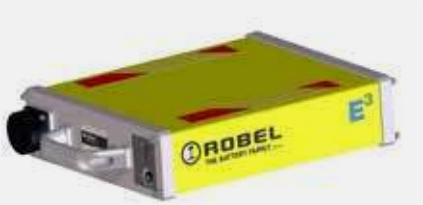
(*) depending on rail profile, cutting disc and operator etc.

ACCESSORIES

5016060210 Connecting cable – 4 m
7839900001 Battery 2300 Wh
7879900201 Battery charger 2300 Wh
5039900003 Power supply, 400 Volt – 60 Volt (incl. shoulder strap)
9000208017 Battery box for battery 2300 Wh
8001381004 Safety blocking device ROBEL 13.81 for cutting rails under compressive stress incl. 1 pair of wedges
5908983001 LED lighting protection
5908960120 Transport box

Cutting discs – ideally suited to ROCUT 13.90 E³
9002008820 350 x 4 x 22.2 mm
9002008825 350 x 4 x 25.4 mm
9002008830 400 x 4 x 25,4 mm
Other cutting discs on request.

5908983002 Adapter 22.2 to 25.4 mm incl. circlip



Battery 2300 Wh – 7839900001



400 Volt power supply – 5039900003



ROCUT 13.90 – 5909900008



Connecting cable – 5016060210

ROMPACT 30.20 E³ Battery Powered Impact Wrench



For tightening and loosening nuts, sleeper, switch and fishplate bolts.

THE ADVANTAGES. YOUR BENEFITS.

Compact. Powerful. Robust.
- Adjustable angle design for working in tight spaces e.g. for wrenching fishplates and switches
- Perfect for tightening and loosening switch and fishplate bolts

Ergonomic use
- Easy, ergonomic operation in any work position
- No transfer of the wrenching torque to the operator
- Hand-arm vibration < 5 m/s² allows for effortless wrenching
- LED lighting

Flexible application
- 1-inch square drive to accept the corresponding sockets
- Adjustable output 50/75/100 % for maximum flexibility
- Clockwise/counter-clockwise rotation

SPECIFICATION	Version 3.0
Drive	BLDC electric motor
Output	2.0 kW
Tightening/loosening torque	max. 2800 Nm
Angle adjustable	yes
Vibration damping	yes
Number of wrenching cycles	
Battery 800 Wh	550 (4 seconds each)
Battery 2300 Wh	1600 (4 seconds each)
Weight	
Impact Wrench	from 19.0 kg
Battery 800 Wh	6.3 kg
Battery 2300 Wh	17.5 kg
Adapter for battery 2300 Wh	6.6 kg (incl. connecting cable)
Socket	1.5 kg
Dimensions (L x W x H)	850 x 560 x 220 mm

ACCESSORIES

7806800004 Battery 800 Wh
7806850201 Charger for batteries 800 Wh
9000208016 Battery box for battery 800 Wh

7839900001 Battery 2300 Wh
7879900201 Charger for battery 2300 Wh
7838930001 Adapter for using battery 2300 Wh



ROMPACT 30.20 – 7809900006

Sockets

Hexagonal
9871033313 AF 30
9871033309 AF 32
9002501223 AF 34
9871033314 AF 35
9871033311 AF 36
9871033315 AF 38
8098950100 AF 39 Special 230 mm
9871033391 AF 39
9871033304 AF 41
9871033308 AF 42
9002501224 AF 46

Rectangular
9871033317 rect. 18 x 26
9871033302 rect. 21 x 28
9871033305 rect. 30 x 22

Square
9871033303 SQ 19x19/17x17
9871033318 SQ 21 x 21
9871033306 SQ 22 x 22
9871033319 SQ 24 x 24

Special sockets
8003062130 Combined socket AF 41 & rect. 21 x 28

Other sockets available on request.









Drill adapter/sleeper drill bit

Drill adapter
8099910001 SDS Plus chuck adapter

Sleeper drill bits
Max. drilling depth 150 mm with SDS Plus chuck adapter
9002501808 Ø 14 mm
9002501809 Ø 16 mm
9002501810 Ø 18 mm
9002501811 Ø 20 mm
9002501812 Ø 22 mm

Other drill bits available on request.

Miscellaneous
8003009006 Extension 180 mm/1" adapter
8003009005 Extension 330 mm/1" adapter
9909992145 O-ring, circlip to secure socket
9900070056 Cylindrical pin Ø 5 mm to secure socket

Adaper for tools for sleeper renovation (see ROWRENCH 30.83):
8338930003 Adapter square 24 mm to 1 inch
8338930004 Adapter 1inch to square 24 mm

ROMPACT 30.25 E³ Battery Powered Impact Wrench



For tightening and loosening nuts and sleeper bolts.

THE ADVANTAGES. YOUR BENEFITS.

Compact. Powerful. Robust.
- Perfect for tightening and loosening nuts and sleeper bolts
- Lightweight and balanced
- Rotating handle up to 360°

Ergonomic use
- Easy, ergonomic operation in any work position
- Less transfer of the wrenching torque to the operator
- LED lighting

Flexible application
- 1-inch square drive to accept the corresponding sockets
- Adjustable output 35/60/100 % for maximum flexibility
- Clockwise/counter-clockwise rotation

SPECIFICATION

Drive	BLDC electric motor (18V)
Output	1.5 kW
Tightening/loosening torque	max. 2300 Nm
Number of wrenching cycles	
Battery 144 Wh	200 (2 seconds each)
Weight	
Impact Wrench without battery	from 6.8 kg
Dimensions (L x W x H)	910 x 470 x 150 mm
Socket	1-inch

ACCESSORIES

8007104001 Battery 144 Wh
8007114001 Charger for battery 144 Wh

Sockets

Hexagonal
9871033313 AF 30
9871033309 AF 32
9002501223 AF 34
9871033314 AF 35
9871033311 AF 36
9871033315 AF 38
8098950100 AF 39 Special 230 mm
9871033391 AF 39
9871033304 AF 41
9871033308 AF 42
9002501224 AF 46



Rectangular
9871033317 rect. 18 x 26
9871033302 rect. 21 x 28
9871033305 rect. 30 x 22



Square
9871033303 SQ 19x19/17x17
9871033318 SQ 21 x 21
9871033306 SQ 22 x 22
9871033319 SQ 24 x 24



Special sockets
8003062130 Combined socket
AF 41 & rect. 21 x 28

Other sockets available on request.



ROWRENCH 30.76 E³ Electric Precision Power Wrench



For fully electric tightening or loosening of all screw connections with very large operating range.

THE ADVANTAGES. YOUR BENEFITS.

Ergonomic & sustainable
- Lightweight
- Ideally balanced machine due to telescopic frame
- Battery drive: high efficiency even for longer track sections
- Up to 5000* wrenching cycles per battery charge
- Folding and height-adjustable guide handles
- No exhaust fumes, unpleasant odours or pollution, suitable for tunnels and urban areas
- Low noise emissions and reduced hand-arm vibrations
- Machine is ready at the press of a button
- LED lighting

Intelligent wrenching machine
- Self-learning and intuitive control with target/actual comparison
- Constantly high wrenching precision
- Recognises defective screws and damaged threads, reacts to conditions and regulates further wrenching processes
- Selection of track type at the push of a button
- Machine adjusts to track quality automatically

Time saved, quality increased
- Machine immediately ready to use due to measurement
- The torque is measured electronically at the screw spindle
- Very low torque adjustable: from 100 Nm

Minimised labour costs, wrenching made easy
- High tightening/loosening torque for rusty rail fastenings and for dismantling screws
- Fast wrenching
- Operation as ROWRENCH 30.73PSM – no need to get used to the machine

Work result fully documented
- Recording of each wrenching process
- Captures wrenching frequency, kilometre marking and wrenching mode
- Output of results (Excel log) and of GPS coordinates (transferable to online map services) via USB
- Verifiable performance protects against future claims

Economic and efficient
- Aluminium covers
- High availability of the machine
- Minimal maintenance effort, no wear parts (spark plugs, oil, etc.)
- Customer-friendly, annual calibration; independent performance possible

SPECIFICATION

Drive	BLDC electric motor
Output	7.5 kW
Spindle speed	max. 200 U/min
Loosening torque	max. 900 Nm
Tightening torque	100-500 Nm
Number of wrenching cycles / battery charge	up to 5000*
Dimensions (L x W x H)	
Transport position (dimensions correspond to Euro pallet size)	1200 x 510 x 720 mm
Working position (extendable	2000-2200 x 660 x 720 mm
Weight	
Machine	from 80 kg
Battery 2300 Wh	17.5 kg
Travelling gear	Transverse bogies available for all gauges
	Monorail trolleys with outrigger available for all gauges

(*) Depending on type of track, condition of track, torque required etc.

OPTIONS

1. Travelling gear

5010820006 Monorail trolley
8911164032 Outrigger, gauge 1435 mm
7730750001 Transverse bogie, gauge 1435 mm
(60 mm height above top of rail, plastic rollers)

Other gauges on request.

2. Extensions

for monorail trolley:
5018950001 straight extension for split sockets
5018950005 crowned extension for one-piece, rigid sockets

for transverse bogie:
5018950007 straight extension for split sockets
5018950010 crowned extension for one-piece rigid sockets

for transverse bogie (raised):
5018950008 straight extension for split sockets
5018950011 crowned extension for one-piece rigid sockets

3. Sockets

One-piece rigid design:
8003082038 Hex AF 38
8003082036 Hex AF 39
8003082071 Hex AF 41
9871033070 Rectangular 28 x 21
9871032123 Square 23 x 23
9871032427 Square 27 x 27
9871033072 Rectangular 24.5 x 20.5

Split articulated design:
8003062001 Hex AF 39
8003062017 Hex AF 41
8003062005 Rectangular 28 x 21

For other dimensions see separate overview.

ACCESSORIES

7839900001 Battery 2300Wh
7879900201 Charger for battery 2300 Wh
9000208017 Battery box for battery 2300 Wh

USB stick
9008000057 Spare USB stick

Torque wrench
9002501350 for annual calibration (set to 250 Nm)

Transport frame
7738960001 stackable, universal setting for ROBEL wrenching machines (30.73, 30.76 E³, 30.82RKS, 30.82HKS, 30.82 HKS E³, 30.83, 34.01)

Toolbox
8328980100 Toolbox for fitting on transverse bogie

Cover
9000100065 for weather protection

ROWRENCH 30.82HKS E³ Battery Powered Universal Power Wrench



For tightening and loosening nuts and sleeper, hook and fishplate bolts.

THE ADVANTAGES. YOUR BENEFITS.

Reliable Wrenching, precise results
- Uniform repat wrenching due to adjustable torque
- Checking of torque on pressure gauge display
- Selection between two gears depending on stiffness of screw
- Fast changeover to maximum torque without changing the torque setting
- Approx. 1000 wrenching cycles per charge of 2300 Wh battery (depending on type of track, condition of track, torque required etc.)

Robust construction, minimum maintenance costs
- Long service life due to ROBEL high-performance clutch
- Low wear due to permanent oil lubrication of clutch in oil bath

Pleasant working for the operator
- Low weight and compact design with folding guide handles
- Large field of view due to LED lighting of work area
- Height-adjustable guide handles
- Very fast availability (at the push of a button)
- No exhaust fumes
- Reduced noise emissions
- Reduced hand-arm vibrations

Flexible use
- Work possible without outrigger due to low centre of gravity
- Tensioning and loosening of all wrenched types of track
- Quick-change chuck for fast change of sockets

SPECIFICATION

Drive	BLDC electric motor
Output	4,0 kW at 3600 rpm
Spindle speed	
No-load speed, max.	200 rpm
Load speed	71 rpm
Adjustable tightening torque	from 140 to 300 Nm
Short loosening torque	up to 1000 Nm
Travelling gear	Transverse bogies available for all gauges
	Monorail trolleys with outrigger available for all gauges
Dimensions (L x W x H)	1920 x 600 x 600-800 mm
Transport position (L x W x H)	1510 x 600 x 575 mm
Weight machine	from 84 kg (without 2300 Wh battery)
Weight 2300 Wh battery	17.5 kg

For further information on configuration and accessoires see 30.82HKS Universal Power Wrench.

ROXTRACT 33.20 E³ Battery Powered Spike Puller



THE ADVANTAGES. YOUR BENEFITS.

Easy operation
- > 500 spikes per battery charge (800 Wh)
- High pulling force up to 7.5t
- No switching over for pull and release necessary – separate button for extraction and reset
- Tongs for dogspikes included
- Conversion to other spikes possible (optional hairspike tong set)
- Pulls spikes within 3 seconds*
- LED light
- Ergonomic and compact handle design
- low hand-arm-vibrations (HAVs)

Emmission-free and safe
- No exhaust fumes
- Wide range of application e.g. tunnels and urban areas
- High safety due to closed construction – no accessible rotating parts

*depending on the type and condition of the tie/sleepers, type of spike etc.

SPECIFICATION

Drive	BLDC electric motor
Output	1.6 kW
Weight	
Machine without battery	23.0 kg
800 Wh battery	6.3 kg
Pulling force	7.5t
Pulling speed	1 - 3 seconds
Dimensions (L x W x H)	890 x 550 x 310 mm

ACCESSORIES

5334220002	Tongs for pulling hairspikes
7806800004	Battery 800 Wh
7806850201	Charger for battery 800 Wh
9000208016	Battery box for battery 800 Wh


Dogspikes


Hairspikes

ROSPIKE 33.25 E³ Battery Powered Spike Driver



ROSPIKE 33.25 E³ - 5259900001
ROBATTERY 71.01 (800 Wh) - 7806800004

For driving spikes into wooden sleepers.

THE ADVANTAGES. YOUR BENEFITS.

Powerful and robust.

- Quick spike driving (< 5 seconds)*
- No pre-drilling of holes necessary*
- Ergonomic and compact handle
- High safety due to battery on the machine, no cable or hose connection
- No set-up time
- LED lighting
- Vibration decoupling, low HAVs

* depending on the type of wood of sleeper etc.

SPECIFICATION

Drive	BLDC electric motor
Output	2.0 kW
Weight	
Spike driver without battery	from 28,6 kg
Battery 800 Wh	6.3 kg
Dimensions (L x W x H)	980 x 530 x 310 mm

ACCESSORIES

7806800004	Battery 800 Wh
7806850201	Charger for battery 800 Wh
9000208016	Battery box for battery 800 Wh

ROCLIP 34.01 E³ Battery Powered Clipping Machine



For emission-free inserting and extracting Fastclip clip fasteners in new construction and maintenance. With sleeper lifting unit.

THE ADVANTAGES. YOUR BENEFITS.

Wide range of applications
- Various versions for Fastclips of types FC, FE and FCx
- Removes even heavily corrodes clips

High throughput
- Fast changeover without tools between insertion and extraction mode
- Excellent ergonomics due to optimised centre of gravity and height-adjustable handles
- Optimum view of work area due to LED lighting
- 90 min clipping time per battery charge (depending on material, operator etc.)

Easy oepration
- Intuitive start of clipping using the push-button on the handle
- Short set-up time due to simple adjustments

Optimum results
- Protection of insulators due to precise adjustment of the clipping tool
- No follow-on costs from replacement of damaged insulators
- Easy and fast lifting of low-lying sleepers

SPECIFICATION

Drive	BLDC electric motor	BLDC electric motor
Output	4.6 kW	4.6 kW
Fastclip type	FC	FC/FCx/FE
Weight		
Machine with sleeper lifting unit	from 141 kg	from 151 kg
Battery 2300 Wh	17.5 kg	17.5 kg
Transverse bogie	from 46 kg	from 46 kg
Dimensions (L x W x H)	1950 x 620 x 1010 mm	1950 x 620 x 1010 mm

ACCESSORIES

7839900001 Batttery 2300 Wh
7879900201 Charger for battery 2300 Wh

For further information on configuration and accessories see 34.01 Clipping Machine.

ROLIFT 43.20 E³ Battery Powered Single-Rail Lifting Device



ROLIFT 43.20 E³ – 5329900101
ROBATTERY 71.02 (2300 Wh) – 7839900001

For replacing ribbed plates and rail pads on flat bottom rails.

THE ADVANTAGES. YOUR BENEFITS.

- Precise lifting of the rail for replacing ribbed plates and rail pads, as well as for installing rail carrying rollers
- Easy transport to the job site and simple placement thanks to the ergonomic and lightweight frame, which includes adjustable handle heights for pushing
- Optimum view of work area
- Minimal maintenance effort
- Reduced hand-arm vibrations for the operator
- Flexible application in urban areas and in tunnels, among other places
- Low noise, no exhaust emissions
- Mechanical emergency release via drive spindle
- LED lighting
- Mechanical locking of the rail when raised

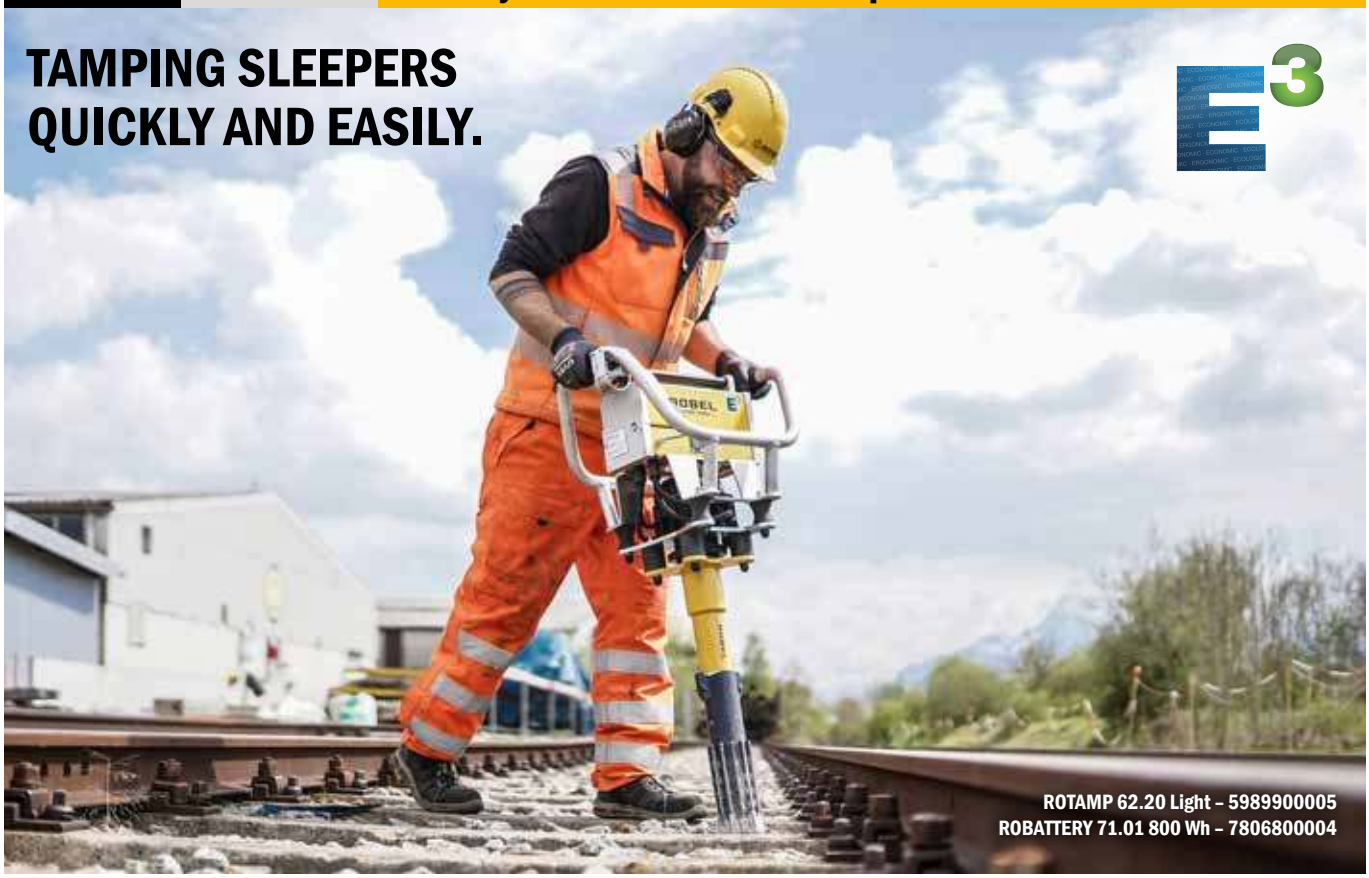
SPECIFICATION

Drive	BLDC electric motor
Output	6.6 kW
Lifting height	100 mm
Lifting speed	20 mm/s
Lifting capacity	2 t
Weight	
Machine without battery	50 kg
Battery 2300 Wh	17.5 kg
Dimensions (L x W x H)	
Working position	720 x 970 x 1000 mm
Transport position	720 x 750 x 900 mm
Operating cycles per battery charge	1500

ACCESSORIES

5328930001	Lifting beam
7839900001	Battery 2300 Wh
7879900201	Charger for battery 2300 Wh
9000208017	Battery box for battery 2300 Wh

ROTAMP 62.20L E³ Battery Powered Vertical Tamper



For all tamping work on the track.

THE ADVANTAGES. YOUR BENEFITS.

Lasting stable track geometry

- Reduced tamping time due to optimum ballast compaction under the sleeper with the ROBEL vertical vibration tamping principle
- No damage to ballast or sleepers
- 62.20L E³ Short: Lower variant enables ergonomic working for shorter operators
- 62.20L E³ Slim: Reduced tamping tool diameter for heavily soiled ballast bed and for areas where space is restricted, e.g. in switches
- 62.20L E³ Flex: Variant with height adjustment

Ergonomic tamping process

- Minimum hand-arm vibration thanks to patented 2-level vibration decoupling
- Relieves the operator thanks to low machine weight, no exhaust emissions and low noise emissions
- Hand-arm vibration < 5 m/s² allows for effortless tamping

- Ideal on-board equipment for railbound tamping machines

SPECIFICATION	62.20L E³	62.20L E³ Short	62.20L E³ Slim	62.20L E³ Flex
Drive	BLDC electric motor	BLDC electric motor	BLDC electric motor	BLDC electric motor
Output	2.0 kW	2.0 kW	2.0 kW	2.0 kW
Tamping time per battery charge				
Battery 800 Wh	min. 45 minutes	min. 45 minutes	min. 45 minutes	min. 45 minutes
Battery 2300 Wh (with adapter)	min. 120 minutes	min. 120 minutes	min. 120 minutes	min. 120 minutes
Weight				
Vertical tamper with battery	from 22.5 kg	from 22.5 kg	from 22.3 kg	from 23.6 kg
Battery 800 Wh	6.3 kg	6.3 kg	6.3 kg	6.3 kg
Battery 2300 Wh	17.5 kg	17.5 kg	17.5 kg	17.5 kg
Adapter for battery 2300 Wh	6.6 kg at 4 m cable length	6.6 kg at 4 m cable length	6.6 kg at 4 m cable length	6.6 kg at 4 m cable length
Dimensions (L x W x H)	1080 x 500 x 410 mm	1000 x 500 x 420 mm	1080 x 500 x 410 mm	1110 x 510 x 410 mm
Diameter tamping tool	75 mm	75 mm	65 mm	75 mm
Height adjustment	no	no	no	yes

ACCESSORIES

7806800004	Battery 800 Wh
7806850201	Charger for battery 800 Wh
9000208016	Battery box for battery 800 Wh
7839900001	Battery 23000 Wh
7879900201	Charger for battery 2300 Wh
7838930001	Adapter for battery 2300 Wh
9899890100	Shoulder strap
8999910002	Additional carrying handle
9806205010	Transport box
8868230001	Rail movement indicator

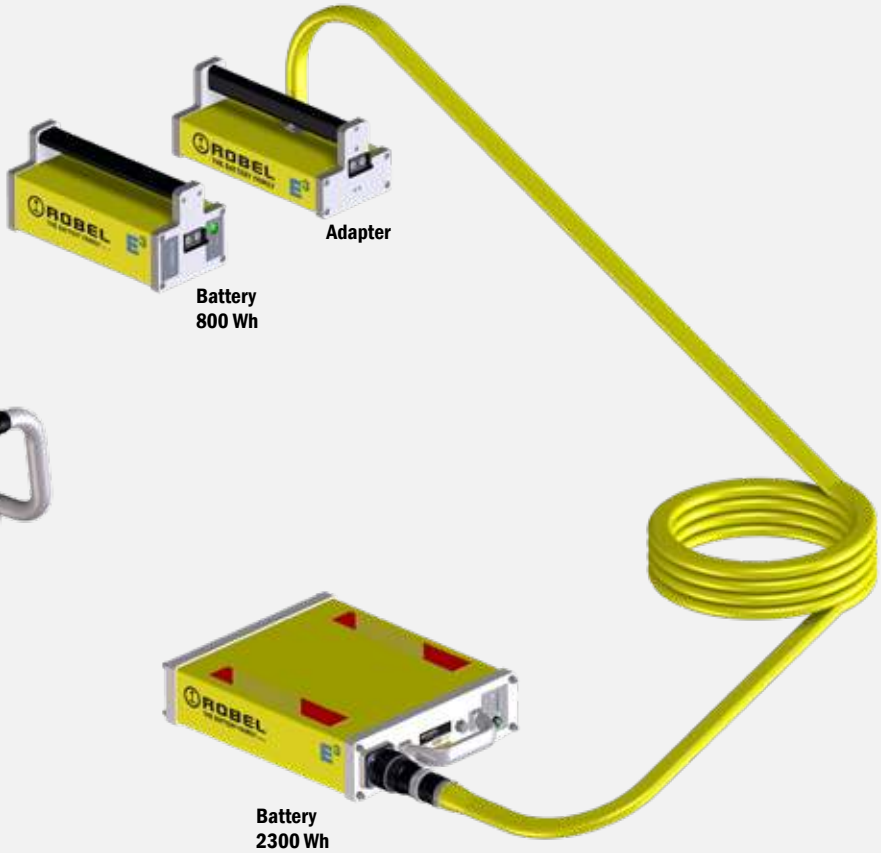
Tamping tools:

5993760001V	Tamping tool 62.20L E³/62.20L E³ Short/62.20L E³ Flex
5993760002	Tamping tool reinforced for even longer service life 62.20L E³/62.20L E³ Short/62.20L E³ Flex
5993760003V	Tamping tool 62.20L E³ Slim
8998980120	Tamping tool wear gauge

Accessories for servicing work:

8998950200	Extractor device for tamping tool
8998950001	Removal device for eccentric shaft
8808950120	Holder for vertical tamper in a vice

For photos of accessories, see ROTAMP 62.05L.





ROTAMP 62.20L E³

ROCONVERT 72.01 E³ Battery Conversion Kit



The alternative to new investment.

THE ADVANTAGES. YOUR BENEFITS.

Extended operational range
- BLDC electric motor, in particular for tunnels and urban areas
- Maximum flexibility due to various types of drive (battery or power supply)

Benefits for environment and budget
- Cost savings from conversion instead of new purchase
- Increased availability due to reduced drive maintenance

Pleasant working for the operator
- Very fast availability (at the push of a button)
- Reduced noise emissions
- Reduced hand-arm vibrations

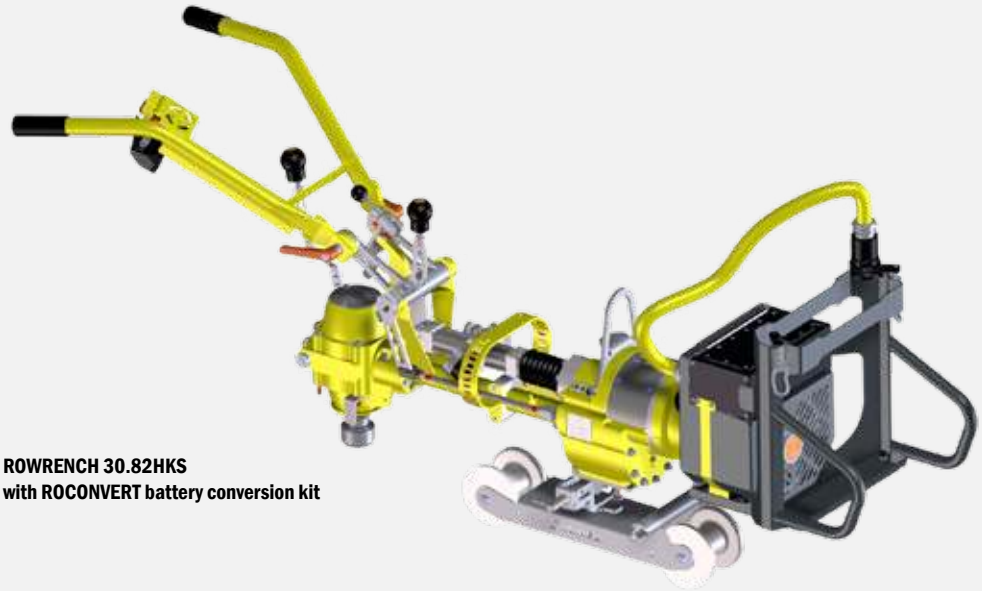
SPECIFICATION

Type	BLDC electric motor
Output	4.0 kW
Expansion possible	30.82 & 30.82HKS (with Honda GX200 or electric motor 400V, 50Hz)
Number of wrenching cycles	approx. 1000 wrenching cycles per charge of 2300 Wh battery (*)
Expansion possible	34.01 (with Honda GX200)
Clipping time	approx. 90 min clipping time per charge of 2300 Wh battery (*)
Dimensions (L x W x H)	500 x 400 x 450 mm
Weight	
Battery conversion kit	17.5 kg
Battery 2300 Wh	17.5 kg
400 Volt power supply	18.0 kg

(*) Depending on type of track, condition of track, torque required etc.

ACCESSORIES

7839900001	Battery 2300 Wh
7879900201	Charger for battery 2300 Wh
5039900003	Power supply, 400 Volt – 60 Volt (incl. shoulder strap)
9000208017	Battery box for battery 2300 Wh



ROWRENCH 30.82HKS
with ROCONVERT battery conversion kit



Battery 2300 Wh –
7839900001



400 Volt power supply –
5039900003

We will be happy to convert your machine in Freilassing.
You are interested in purchasing a new battery powered machine?
Please get in touch with your ROBEL contact for further information.

ROPOWER 76.20 E³ High-Pressure Power Pack-Battery

Emission-free power for hydraulic weld trimmers and hydraulic rail stressors.



ROPOWER 76.20 – 5089900002
4-part carrying handles – 5088930001
ROBATTERY 71.01 800 Wh – 7806800004

THE ADVANTAGES. YOUR BENEFITS.

Compact design
- Low space requirement for transport and storage
- Frame protects components from damage
- Carrying handle options (2-part, 4-part)

Quick and easy working
- Automatic changeover from low pressure range to high pressure range
- Keyed connectors prevent misconnection
- Use in urban areas, tunnels and open cast mining
- Flexible use of various ROBEL batteries
- Use of a second rail stressor possible due to integrated shut-off valves in the hose kit
- Use of the 2300 Wh battery or a power supply (with adapter) possible
- 800 Wh battery: approx. 28-32 trimming operations or approx. 14 stressing operations

SPECIFICATION	SINGLE	DUAL
Drive	BLDC electric motor	BLDC electric motor
Output	1.6 kW	1.6 kW
Pressure supply	550 bar	550 bar + 670 bar
Dimensions (L x W x H)	605 x 365 x 395 mm	605 x 365 x 395 mm
Weights		
Hydraulic power pack (without carrying	32 kg	38 kg
handles, without battery)		
Battery 800 Wh	6.3 kg	6.3 kg
Drive for	ROTRIM 14.10	ROTRIM 14.10+ ROSTRESS 24.70
Emergency hand pump no yes	no	yes (optional)

ACCESSORIES

7806800004	Battery 800 Wh
7806850201	Charger for 800 Wh battery
9000208016	Battery box for battery 800 Wh
5088930001	4-part carrying handles
5088930002	2-part carrying handles
9000860451	Hose kit ROTRIM 14.10 Hydraulic Weld Trimmer
5087900005	Hose kit ROSTRESS 24.70 Hydraulic Rail Stressor with lashing protection (increased safety)
5088930003	Distribution block for operating 2 rail stressors (ROSTRESS 24.70)


4-part carrying handles 5088930001


2-part carrying handles 5088930002


5088930003


9000860451


5087900005

DRILLING



RODRILL **10.40**

Rail Drilling Machine

RODRILL 10.40 Rail Drilling Machine

For efficient rail drilling.

THE ADVANTAGES. YOUR BENEFITS.

Efficiency and mobility
- Drilling time about 12 – 60 seconds depending on rail profile and drill bit
- Coolant flow via drill spindle and drill bit
- Low weight for flexible use
- Different versions available
- Very lightweight version available

Easy handling
- One-man operation
- Manual feed
- Quick and safe attachment to rail
- Quick-clamping device available as accessory – assembly/disassembly in under 3 seconds


RODRILL 10.40 – 8209900602

SPECIFICATION	Version 04	Version 06
Drive	4-stroke petrol engine	4-stroke petrol engine
Type	Honda GX35	Honda GX50
Output	1.0 kW	1.47 kW
Drilling time	12-60 sec. (*)	12-60 sec. (*)
Max. drilling diameter	38 mm	42 mm
Drill adapter	Weldon shank	Weldon shank & quick lock
Dimensions (L x W x H)	500 x 310 x 520 mm	530 x 350 x 530 mm
Total weight	from 19 kg	from 15.5 kg

(*) depending on rail profile, rail hardness, drill bit etc.

ACCESSORIES

Drilling in flat bottom rails

2 rail profile templates each required per rail section, standard clamping device included
8204050100 for 49E1/54E3/60E1
8204050210 for 54E1/54E2

Other variants on request. Please provide details of rail profile and drilling height.

7814103002 Quick-clamping device

Drilling in grooved rails

2 rail profile templates each per rail section and a special clamping device are required
9801040089 Clamping device for grooved rails up to RI60
8204100002 2 additional pressure discs (depending on grooved rail)
8204050150 RI60/DH 75 mm/outside

Other variants on request. Please provide details of rail profile and drilling height.

Drilling in conductor rails and flat bottom rails

2 rail profile templates each per rail section and a clamping device are required
8204100004 Clamping device
8204050221 for STR40 and ASS5100

Other variants on request. Please provide details of rail profile and drilling height.


Rail profile template


Clamping device for grooved rail


Clamping arm for conductor

ACCESSORIES

Core hole drill bits with quick lock
Use in combination with cooling pin
With 19 mm Weldon shank, cutting depth 25 mm.
Optimal drilling performance for rail web tensile strength up to 900 N/mm².

From Ø 16 mm – Ø 42 mm
9002508236 Ø 19 mm
9002508234 Ø 30 mm
9002508235 Ø 32 mm
9002508233 Ø 33 mm

Other diameters available on request.

9002501646 Short cooling pin for core hole drill bit (use for flat bottom rail)
9002501655 Long cooling pin + 8203550100 Adapter (depending on profile of grooved rail or conductor rail)

Twist drill bits
From Ø 7 mm – Ø 15 mm
9820350220 Ø 13 mm

Adapter for twist drill bit Ø 7 mm – Ø 15 mm
9820350130 Ø 13 – 15 mm

Other diameters available on request.

9001511073 Coolant (5 litre canister)
9001511033 Antifreeze concentrate, 5 litres
mixing ratio e.g. –15 degrees Centigrade:
antifreeze : water = 2 : 3
9801040004 Transport and storage box
made of aluminium with lockable lid
and carrying handles
9801040005 Aluminium coolant and swarf collecting tray

Multi-hole drilling templates
Precise drilling intervals are achieved by simply inserting the drilling machine into the distance blocks.
Distance blocks can be adjusted individually by the customer to the dimension required.

The template is applied from the rail end:
8204062001 2-hole
8204062002 3-hole

The template is applied at the continuous rail:
8204062003 4-hole
8204062004 6-hole

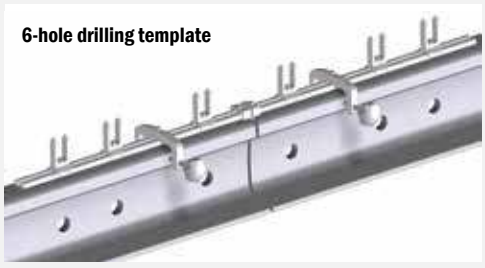
Adjustment of height by ROBEL, on request, stating the rail profile, drilling height and drilling intervals.


Drill bit, adapter and coolant ejector pin


Adapter and twist drill bit 13 mm


Transport case, coolant and collecting tray


3-hole drilling template


6-hole drilling template

ROBORE 11.12 Portable Sleeper Drilling Machine

For efficient drilling of wooden and synthetic sleepers.

THE ADVANTAGES. YOUR BENEFITS.

Compact and powerful
- Light and compact sleeper drilling machine
- Easy handling due to light-weight desing
- Engine speed controlled by hand throttle lever
- Depth stop can be adjusted on scale quickly and without the use of any tools
- Drill bit can be changed swiftly and without the use of any tool
- Lockable drill spindle

Safe and ergonomic
- Highest possible safety due to centrifugal clutch
- User-friendly machine height
- Good field of view on drilling site
- Individually adjustable for right- and left-handers


ROBORE 11.12 – 8839900005

SPECIFICATION

Drive	4-stroke petrol engine
Type	Honda GX50
Output	1,47 kW
Adjustable drilling depth	up to 200 mm
Drilling diameter	10 – 25 mm
Drill bit change	approx. 30 seconds
Dimensions (L x W x H)	430 x 350 x 1125 mm
Total Weight	from 12 kg

ACCESSORIES

Sleeper drill bits
Automatic feed by screw point, made of tool steel, single-blade without taper tap, total length 457 mm with hexagonal adapter

9002508251	Sleeper drill bit ø 15 mm, for wooden sleepers
9002508252	Sleeper drill bit ø 16 mm, for wooden sleepers
9002508260	Sleeper drill bit ø 17 mm, for wooden sleepers
9002508250	Sleeper drill bit ø 18 mm, for wooden sleepers
9002508254	Sleeper drill bit ø 20 mm, for wooden sleepers
9002508253	Sleeper drill bit ø 21 mm, for wooden sleepers
7858930110	Centre tip for 11-18 mm drill bit/ 26 mm ribbed base plate
7858930130V	Circular level for ensuring vertical hole
9899890100	Shoulder strap

Other drilling diameters and centring tips available on request.


Sleeper drill bit Ø 18 mm

CUTTING



ROCUT 13.86

Rail Cutter

ROSAW 12.72MSB Mobile Rail Band Saw


ROSAW 12.72MSB – 5099900002

For cutting rails without sparking in new construction and maintenance.

THE ADVANTAGES. YOUR BENEFITS.

Patented 4-roller technology
- Precise and fast cutting due to sturdy machine frame
- Long blade life due to low torsion compared to 3-roller technology

Efficiency and ergonomics
- Easy and quick blade change
- Low hand-arm vibration
- Low noise level
- Modular design

Flexible use
- Quiet working with low vibration
- Cutting of heavily worn rails possible due to clamping on rail web

Protection of operator and environment
- Operator safety due to cutting without sparks
- Quality of rail maintained due to cold saw cut
- No grinding dust

Recommended application: For neutral rail temperature or tensile stress in the rail. Ideally suited for night work (low noise emission) and low temperature in the rail.

SPECIFICATION

Drive	Electric motor
Type	110 V/50 Hz; 230 V/50 Hz; 400 V/50 Hz
Output	0.75 kW
Cutting speed	72 m/min
Cutting time	from 2 min/cut
Spindle feed	manual
Dimensions (L x W x H)	815 x 590 x 550 mm
Band saw weight	from 54 kg
Tensioning block weight	from 19 kg

Saw blade life of up to 25 cuts in unhardened rails, up to 8 cuts in hardened rails or tough steel.

ACCESSORIES

9801272008	Band saw blade
9001511027	Coolant concentrate, 5 litres, mixing ratio concentrate : water = 1:50
9801040005	Aluminium coolant collecting tray
9008120317	Extension cable 10 m (only for 230 V version)
5098960001	Transport box
8204050100	Profile template for 49E1/54E3/60E1

Profile templates for other rail profiles on request.


Transport box

ROCUT 13.70 Rail Cutter

For fast and efficient cutting of maximum strength rails.

- Short cutting times, e.g. approx. 1 min. possible for rail profile 49E1
- Flying sparks controlled downwards and optimum utilisation of cutting disc thanks to device changeover
- Sturdy and light aluminium guide frame
- Clamping device adjustable to rail type
- With kerf indicator for accurate determination of cutting point
- Relieves the operator thanks to supporting spring on the guide arm
- Easy starting of engine thanks to Smart Start decompression equipment
- Optimum filter effect due to air injection technology, fine filter and impregnated pre-filter
- Spark protection for cutting disc continuously adjustable


ROCUT 13.70 – 8709900033

SPECIFICATION

Drive	2-stroke petrol engine	2-stroke petrol engine	2-stroke petrol engine
Type	Husqvarna	Husqvarna	Husqvarna
Output	5.8 kW	5.8 kW	5.8kW
Cutting disc diameter	350 mm	400 mm	350 mm
Safety shut-down	yes	no	no
Cutting rate (*)	from 1 min/cut	from 1 min/cut	from 1 min/cut
	up to 8 cuts per disc	up to 10 cuts per disc	8 cuts per disc
Guide frame	from 9 kg	from 5.5 kg	from 5.5 kg
Engine powered cutter	from 18 kg	from 15.7 kg	from 15 kg
Cutting disc	from 0.8 kg	from 1.3 kg	from 0.8 kg
Total weight	from 27.8 kg	from 22.5 kg	from 21.3 kg

(*) depending on rail profile, cutting disc and operator etc.

ACCESSORIES

Cutting discs

9002000309 Ø 350 x 4 x 22.2 mm
9002000300 Ø 350 x 4 x 25.4 mm
9002000911 Ø 400 mm x 4 mm x 25.4 mm
Other cutting discs on request.

9000860394 Adapter for cutting discs with 25.4 mm holder for 13.70, EDP no:
- 8709900031
- 8709900033

not necessary for 13.70 with EDP no.:
- 8709900030

8001381004 ROBEL 13.81 Safety Blocking Device for cutting rails under compressive stress, incl. 1 pair of wedges
8708960100 Transport box

9801370182 Guide frame for grooved rails for 13.70 with EDP no.:
- 8709900033
- 8709900031


Blocking device


Cutting disc

ROCUT 13.86 Rail Cutter

For efficient cutting of maximum strength rails.

- Rail can be cut from both sides without changeover
- Relieves the operator thanks to supporting spring on the guide arm
- Precise positioning at the cutting point due to kerf indicator
- Easy starting of engine thanks to Smart Start decompression equipment
- Optimum filter effect due to air injection technology, fine filter and impregnated pre-filter
- Electronic speed limiter
- Centrifugal clutch
- Spark protection of cutting disc continuously adjustable
- Sturdy and light aluminium guide frame
- Optional: available with safety shutdown



SPECIFICATION

Drive	2-stroke petrol engine	2-stroke petrol engine
Type	Husqvarna	Husqvarna
Output	5.8 kW	5.8 kW
Cutting disc diameter	300 mm	350 mm
Cutting rate (*)	from 1 min/cut	from 1 min/cut
	up to 6 cuts/cutting disc	up to 8 cuts/cutting disc
Weight		
Rail Cutter	from 16 kg	from 16.8 kg
Guide frame	from 11.2 kg	from 11.2 kg
Cutting disc	from 0.5 kg	from 0.8 kg
Total weight machine	from 27.7 kg	from 28.8 kg

(*) depending on rail profile, cutting disc and operator etc.

ACCESSORIES

Cutting discs

9002000307 ø 300 x 3.5 x 22.2 mm
9002000309 ø 350 x 4 x 22.2 mm
9002000300 ø 350 x 4 x 25.4 mm
Other cutting discs on request.

8394150100 Adapter for cutting discs with 25.4 mm holder

8001380010 Clamping device for grooved rails
(max. head width 130 mm)

8001380020 Guide frame, complete, for grooved rails

8001381004 Safety blocking device ROBEL 13.81
for cutting rails under compressive stress
incl. 1 pair of wedges

8398960100 Transport box

GRINDING



ROGRIND 13.45RS

Rail Grinding Machine

ROGRIND 13.45RS Rail Grinding Machine


ROGRIND 13.45RS – 5159906301

For precise grinding of welding joints and for reprofiling the complete rail head.
Can also be used in switches, for frogs and for grinding grooved rails.

THE ADVANTAGES. YOUR BENEFITS.

- **Visibility:** Optimal visibility of the rail during operation
- **Motor:** ROBEL RGX200, reliable, powerful motor, perfect starting performance at maximum torque
- **Clutch:** New low-maintenance long-life clutch between engine crankshaft and grinding spindle
- **Ergonomics:** Optimal ergonomics thanks to perfect weight distribution with central engine
- **Weight:** With approx. 55 kg, excellent balance between machine weight and performance ratio
- **Features:** LED lighting and robust/proven stainless steel tank

SPECIFICATION

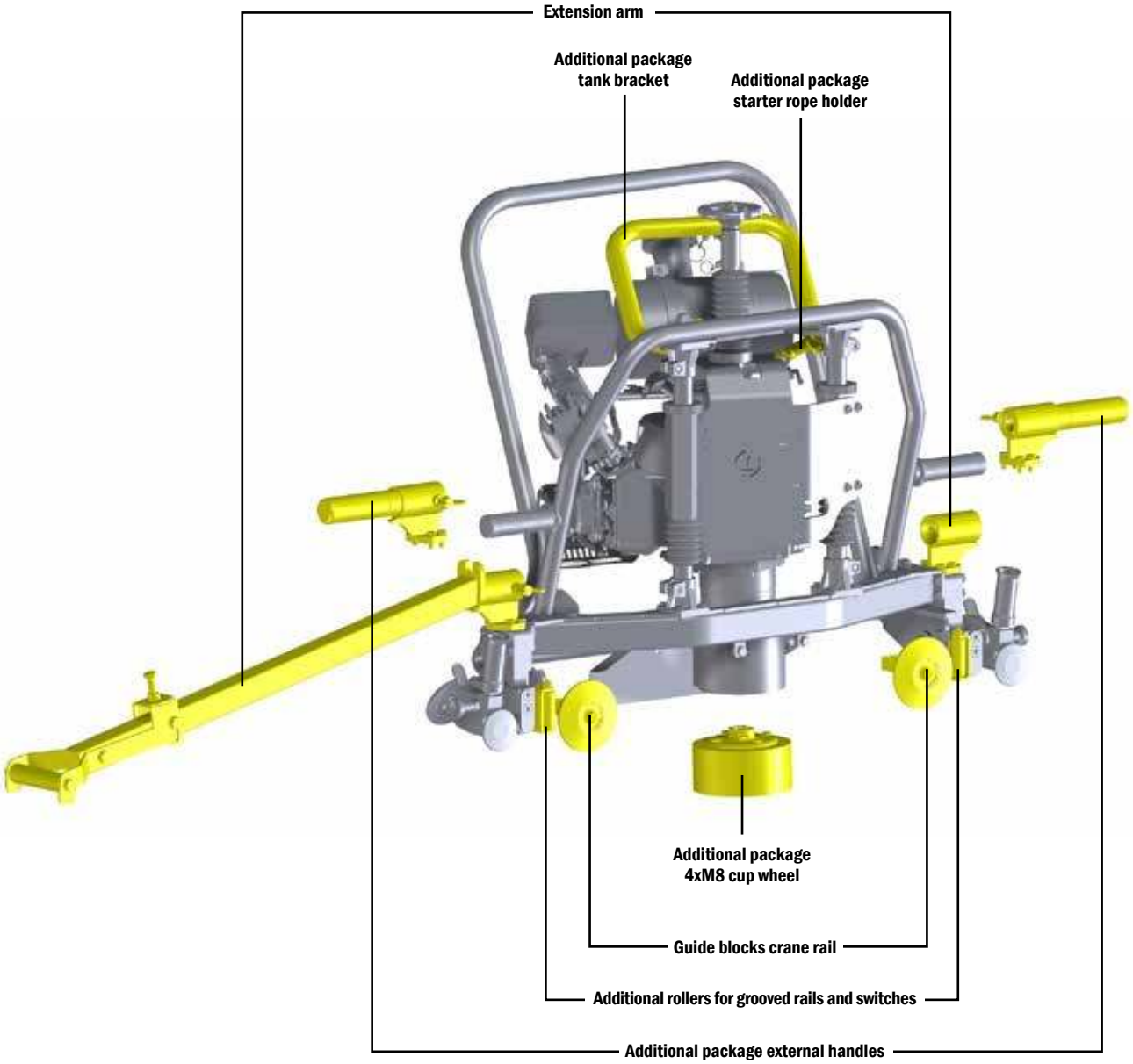
Versions	5159906301	5159906302	5159906303
Drive	One-cylinder 4- stroke engine	One-cylinder 4-stroke engine	One-cylinder 4-stroke engine
Type	RGX200	RGX200	RGX200
Output	4,6 kW	4,6 kW	4,6 kW
Weight	approx. 55 kg	approx. 60 kg	approx. 56 kg
Roller spacing	850 mm	1000 mm	850 mm
Dimensions (L x W x H)	1080 x 520 x 790 mm	1060 x 550 x 920 mm	940 x 520 x 830 mm
Guiding handle	left	right	left
Guiding system	Universal guiding system	Rail guiding system	Rail guiding system
Hand wheel	small (100 mm)	big (160 mm)	small (100 mm)
Cup wheel	Ø 125 mm M20	Ø 150 mm M20	Ø 125 mm M20

ACCESSORIES

5158930018	Extension arm
5158930019	Additional rollers for grooved rails and switches
9000200182	Steel wire brush
8931002007	Centring nut, fixings for steel wire brush
5158930023	Additional package 4xM8 cup wheel
5158930016	Guide blocks crane rail
5158930027	Guide blocks grooved rail
5158930024	Additional package starter rope holder
5158930025	Additional package external handles
5158930026	Additional package tank bracket

Cup wheels

9002000687	Ø 125 mm central nut holder M20
9002000689	Ø 150 mm central nut holder M20
9002000691	Ø 90 mm central nut holder M20



ROGRIND 13.45SKS Rail Head Grinding Machine



ROGRIND 13.45SKS - 5159900804 - Guiding handle right

The grinding machine for reprofiling the rail head.

THE ADVANTAGES. YOUR BENEFITS.

Powerful machine. Universal application.
- Can be used for all common types of rail due to adjustable spacing of guide discs to various rail head widths.
- Durable stainless steel tank for 4-stroke engine variant
- Optional: LED lighting with 4-stroke engine version for optimum illumination of work area

Simple operation.
Controlled and precise grinding.
- Machine specially adapted to the operator.
- Adjustment of spindle resistance without tools
- Easy changing of cup wheel thanks to Quick Lock
- Digital hour meter/rev counter

SPECIFICATION

Drive	One-cylinder 4-stroke engine	Electric motor	One-cylinder diesel engine
Type	RGX200	400 V, 50 Hz	Yanmar
Output	4.6 kW	2.7 kW	3.5 kW
Total weight	from 68.5 kg	from 62.5 kg	from 75 kg
Roller spacing	1000 mm	1000 mm	1000 mm

INDIVIDUAL CONFIGURATION OPTIONS

1. **Guiding systems**
   Standard rail guiding system
   Universal guiding system
   Grooved rail guiding system
   Crane rail machining set (up to rail head width 120 mm)
   Guiding system for small flat bottom rails

2. **Guiding handle**
   Guiding handle left
   Guiding handle right

3. **Carrying handles**
   Inside carrying handle
   Outside carrying handle
   Bow-type handle

4. **Hand wheel**
   Hand wheel Ø 100 mm
   Hand wheel Ø 160 mm

5. **Grinding spindle**
   Standard grinding spindle
   Raised grinding spindle

6. **Foldable spark protection**

7. **LED lighting**

ACCESSORIES

Accessories grinding machine

5158930001	Multiroller carrier (2 required)
5150800002	Outrigger
5158931002	Extension arm for frog noses
5158930004	Crane lifting eye

Cup wheels

9878081000	Ø 90 mm conical for frog noses and switches, central nut holder M20 (also suitable for the running surface of grooved rails)
9002000330	Ø 90 mm cylindrical for built-up welds, central nut holder M20
9002000687	Ø 125 mm central nut holder M20
9002000688	Ø 125 mm screw fastening 4xM8, pitch circle Ø 90 mm
9002000690	Ø 150 mm central nut holder M20
9002000689	Ø 150 mm screw fastening 4xM8, pitch circle Ø 115 mm

Other cup wheels on request.

9000200182	Steel wire brush e.g. for removing rust from rails (not to be used without centring nut)
8931002007	Centring nut, fixings for steel wire brush



Cup wheels

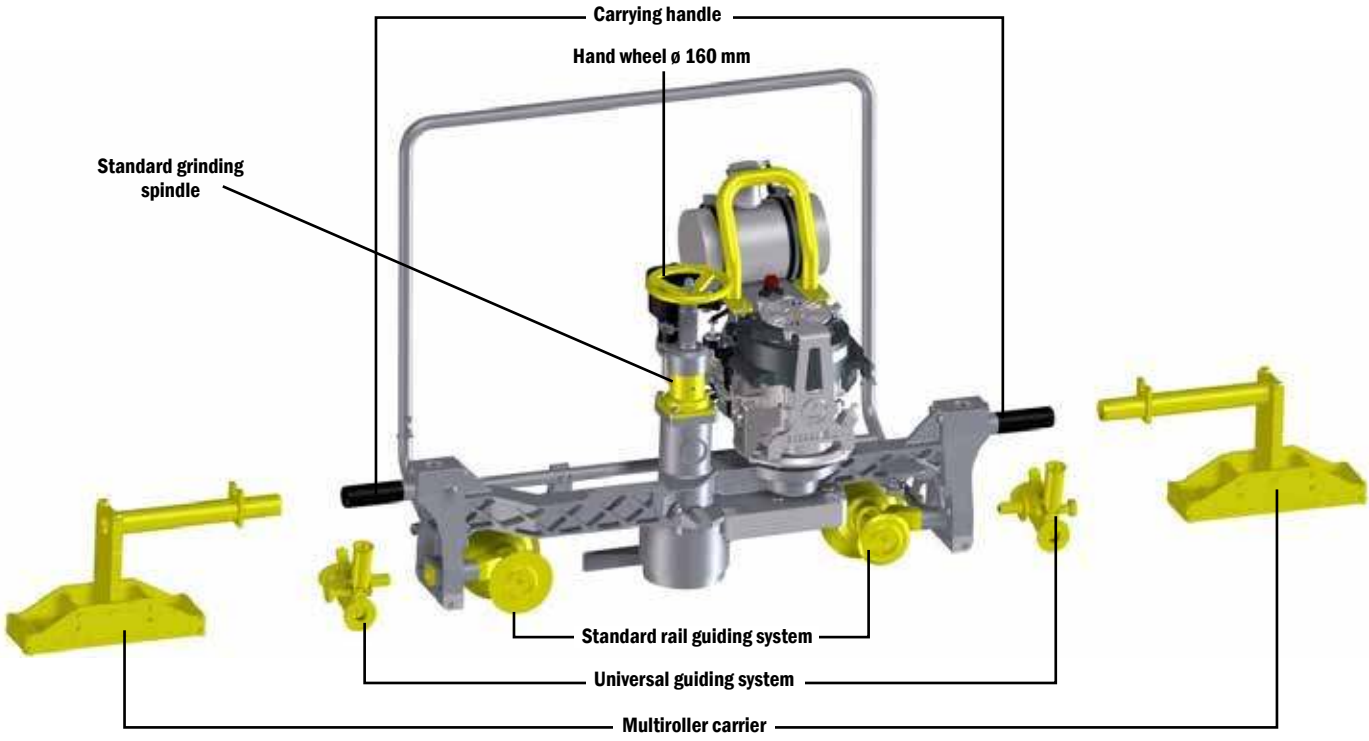


Illustration ROGRIND 13.45SKS: Left-hand guide handle

Do you require a different version?
Please get in touch with your ROBEL contact.

ROGRIND 13.45WBF Welding Joint Grinding Machine



ROGRIND 13.45WBF – 5159906003 – Guiding handle left

**For precise grinding of welding joints and for reprofiling the complete rail head.
Can also be used in switches and for grinding grooved rails.**

THE ADVANTAGES. YOUR BENEFITS.

Convenient to use. Individual format.
- Easy changing of cup wheel thanks to Quick Lock
- Non-projecting carrying handles allow for easy transport
- Optional: LED lighting with 4-stroke engine version for optimum illumination of work area
- Side stand for safe placement of machine for variant with left-hand guide handle

Powerful machine. Powerful grinding results.
- Rotational resistance can be adjusted at spindle hand wheel as required, without the use of any tools
- Durable stainless steel tank for 4-stroke engine variant
- Powerful engines
- Height-adjustable spark protection
- Steady universal guiding system

SPECIFICATION

Drive	One-cylinder 4-stroke engine	Electric motor	Diesel engine
Type	RGX200	400 V, 50 Hz	Yanmar
Output	4.6 kW	2.7 kW	3.5 kW
Weight	from 67 kg	from 61 kg	from 73 kg
Roller spacing	850 mm	850 mm	850 mm

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INDIVIDUAL CONFIGURATION OPTIONS

1. **Guiding systems**
   Standard rail guiding system
   Universal guiding system
   Grooved rail guiding system
   Crane rail machining set (up to rail head width 120 mm)
   Guiding system for small flat bottom rails

2. **Guiding handle**
   Guiding handle left
   Guiding handle right

3. **Carrying handles**
   Inside carrying handle
   Outside carrying handle
   Bow-type handle

4. **Hand wheel**
   Hand wheel Ø 100 mm
   Hand wheel Ø 160 mm

5. **Grinding spindle**
   Standard grinding spindle
   Raised grinding spindle

6. **Foldable spark protection**

7. **LED lighting**

ACCESSORIES

Accessories grinding machine

5158930001	Multiroller carrier (2 required)
5150800002	Outrigger
5158931002	Extension arm for frog noses
5158930004	Crane lifting eye

Cup wheels

9878081000	Ø 90 mm conical for frog noses and switches, central nut holder M20 (also suitable for the running surface of grooved rails)
9002000330	Ø 90 mm cylindrical for built-up welds, central nut holder M20
9002000687	Ø 125 mm central nut holder M20
9002000688	Ø 125 mm screw fastening 4xM8, pitch circle Ø 90 mm
9002000690	Ø 150 mm central nut holder M20
9002000689	Ø 150 mm screw fastening 4xM8, pitch circle Ø 115 mm

Other cup wheels on request.

9000200182	Steel wire brush e.g. for removing rust from rails (not to be used without centring nut)
8931002007	Centring nut, fixings for steel wire brush



Cup wheels

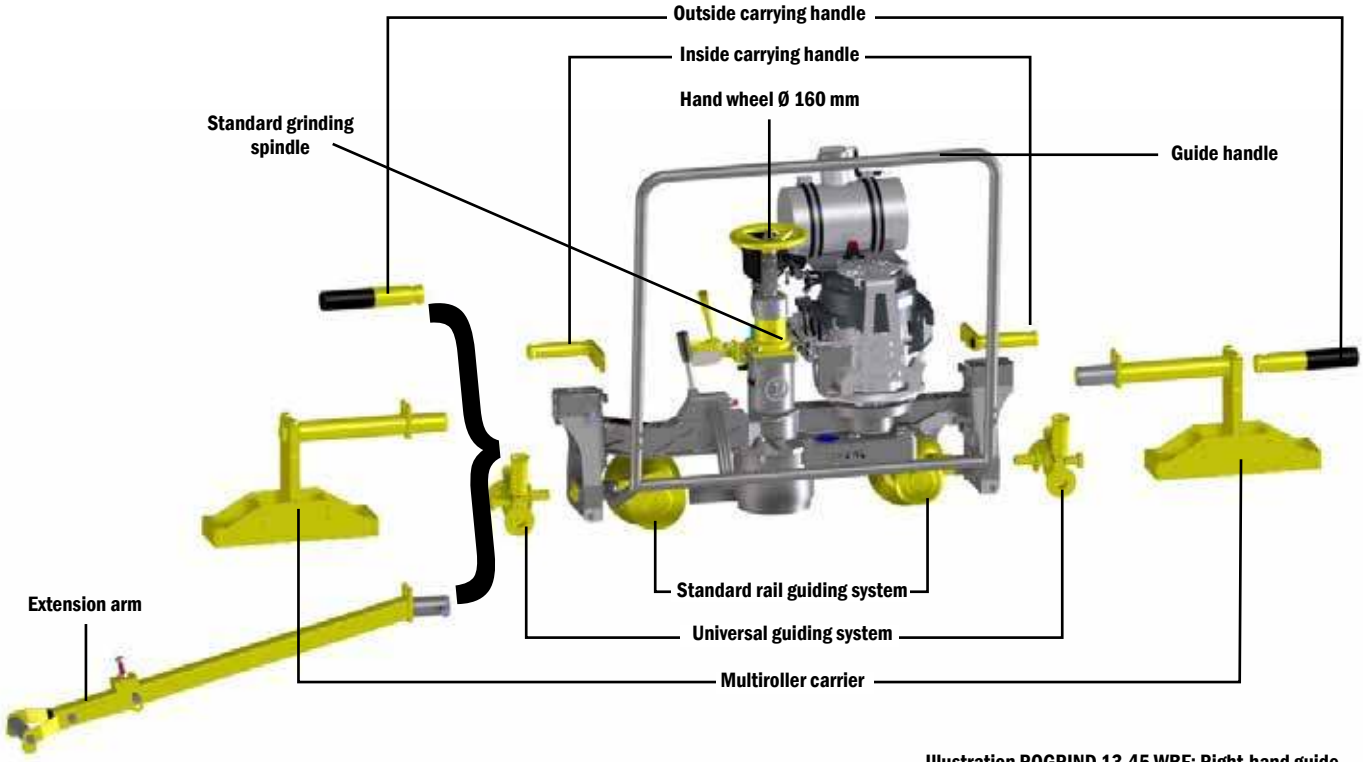


Illustration ROGRIND 13.45 WBF: Right-hand guide

Do you require a different design?
Please get in touch with your ROBEL contact.

ROGRIND 13.48 Rail Head Profile Grinding Machine



ROGRIND 13.48 – 8489900053
Outrigger – 8489910001

For true-to-form grinding of the rail head after welding work to restore a perfect profile.

THE ADVANTAGES. YOUR BENEFITS.

- 100 % copy of the rail profile due to special copying device
- Simple operation in ergonomic work position
- More safety
  - during non-operation due to deadman‘s brake (optional)
  - during grinding due to depth stop (optional)
  - due to good visibility from both operating sides, also at night thanks to LED lighting (optional)
- Ergonomic operation
  - Whilst standing upright
  - Due to electric height adjustment of cup wheel
  - Can be operated with left or right hand with optimum view of the grinding area

Applications

- For thermite and flash welding
- Can be used with 125 mm and 150 mm cup wheels, even for high rail profiles

SPECIFICATION

Drive	4-stroke petrol engine	Electric motor
Type	Honda	GX 270
Output	6.3 kW	4 kW
Cup wheel	Ø 150 mm, also Ø 125 mm	Ø 150 mm, also Ø 125 mm
Max. permissible circumferential speed	50 m/s	50 m/s
Speed	4200 rpm	4500 rpm
Roller spacing	1000 mm	1000 mm
Weight	from 99 kg	from 99.5 kg
Weight, outrigger	from 25 kg	from 25 kg
Length without/with folding handles	1450/1840 mm	1550/1975 mm
Width without/with folding handles	550/580 mm	325/490 mm
Height	870 mm	880 mm
Pivoting angle, copying carriage	92° in both directions	92° in both directions



ROGRIND 13.48 Electric version – 8489900052

ACCESSORIES

Cup wheels

9002000690 Ø 150 mm central nut holder M20
9002000689 Ø 150 mm screw fastening 4xM8, pitch circle Ø 115 mm

Other cup wheels on request.

8489910003 Conversion kit for grooved rail
8931002007 Centring nut, fixings for steel-wire brush
9000200182 Steel-brush (plaited) e.g. for derusting rails



Cup wheels



Centring nut and steel wire brush



Conversion kit for grooved rails – outrigger, guide roller and copying roller – 8489910003

ROGRIND 13.63 Modular Rail and Switch Grinding Machine



ROGRIND 13.63 (Basisrahmen) – 5139900001
Modul: Schleifscheibe BLDC-Elektromotor – 5134200007

For grinding of built-up welds on switch blades, frogs, stock rails and check rails as well as deburring of rail heads and in switches.

A grinding module (grinding disc/cup wheel) can be used with a base frame.

THE ADVANTAGES. YOUR BENEFITS.

High work quality & productivity
- Fast changeover of grinding modules without tools
- Low space requirement during transport and storage of the machine due to telescopic frame
- High flexibility due to various drive options
- Greater stability due to double holder of the 4 insulated flange rollers (divided)
- Drive for modules with BLDC electric motor: battery or power supply

User-friendly & safe
- Ergonomic guidance and operation of the machine
- Good view of the grinding area
- LED lighting
- Emergency stop on the push bar for more safety
- Rack for modules included in scope of delivery (excl. module for rail web grinding)

Wide range of applications
- The machine can be used for all common grinding and reprofiling work, especially in switches.
- Gauge adjustment without tools due to telescopic frame
- Optional: Work on grooved rails

High grinding and work quality
- Precisely ground face due to stable guidance and central feed of grinding units
- Precise setting of grinding angle with fine adjustment and large scale
- Grinding throughput with BLDC electric motor: at least 60 minutes of continuous grinding (depending on rail profile, trimmer, grinding wheel etc.)
- Consistent running during side grinding due to additional guide rollers
- Deadman's brake
- Twist resistant due to strong closed frame
- Optional: Module for grinding rail webs: for derusting the rail web for a continuous current flow before the flash welder machine, for preparing an insulated joint or removing rolling marks.

SPECIFICATION Base frame

Track gauge	1000 – 1676 mm
Dimensions in transport position (L x W x H)	1750 x 1165 x 1060 mm
Dimensions in working position (L x W x H)	2200 x 1165 x 1060 mm
Base frame weight	from 92 kg

ACCESSORIES

5128930001	Toolbox
5120110001	Rollers for grooved rails
9000100195	Cover
5118930001V	Storage grid
5138930005	Rotating device 180°
5138930004	Battery tool box (up to 4 batteries (2300 Wh))
5138930012	Additional carrying handles
5138930013	Auxiliary travelling gear

SPECIFICATION Module: Grinding disc

Drive	4-stroke petrol engine	4-stroke petrol engine	Electric motor	BLDC electric motor
Type	Honda GX200	Honda GX270	400 V, 50 Hz	
Output	4.3 kW	6.3 kW	4.0 kW	6.6 kW
Grinding disc external diameter	260 mm	260 mm	260 mm	260 mm
Max. swivelling range	32° in both directions	32° in both directions	32° in both directions	32° in both directions
Grinding disc speed	3250 rpm	3250 rpm	3250 rpm	3250 rpm
Module weight	from 36.8 kg	from 48.2 kg	from 48 kg	from 24.1 kg



Grinding disc module GX 200



Grinding disc module GX 270



Electric motor grinding disc module

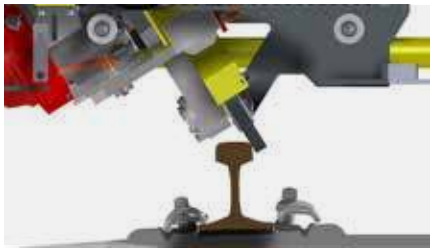


BLDC electric motor E³ grinding disc module









Maximum swivelling range: 32° in both directions with grinding disc module

ACCESSORIES

Grinding discs for flat bottom rails

9002000701 ø 260 x 25 mm, holder ø 120 mm

9002000463 ø 254 x 40 mm, holder ø 76.2 mm
8890500001V Grinding disc holder for grinding disc ø 254 x 40 mm, holder ø 76.2 mm

9002000439 ø 255 x 32 mm, holder ø 25.4 mm
8890810001 Grinding disc holder for grinding disc ø 255 x 32 mm, holder ø 25.4 mm

Grinding discs for grooved rails

9002000654 ø 260 x 15 mm, holder ø 120 mm
9889410004 Grinding disc holder for grinding disc ø 260 x 15 mm, holder ø 120 mm

Accessories for E³ grinding disc module

7839900001 Battery 2300 Wh
7879900201 Battery charger 2300 Wh
5039900003 Power supply, 400 Volt
5118930001V Storage grid for battery
9000208017 Battery box for battery 2300 Wh



Grinding discs

SPECIFICATION Module: Cup wheels

Drive	4-stroke petrol engine	Electric motor	BLDC electric motor	BLDC electric motor
Type	RGX200	400 V, 50 Hz		
Output	4.6 kW	4.0 kW	6.6 kW	6.6 kW
Grinding disc external diameter	90 mm/125 mm/150 mm	90 mm/125 mm/150 mm	90 mm/125 mm/150 mm	90 mm/125 mm/150 mm
Max. swivelling range	80° internal and 10° external	80° internal and 32° external	80° internal and 32° external	90° internal and 32° external
Grinding disc speed	3900 rpm	2900 rpm	3800 rpm	3800 rpm
Module weight	from 30.6 kg	from 37.5 kg	from 24.1 kg	from 30,5 kg



RGX200cup wheel module



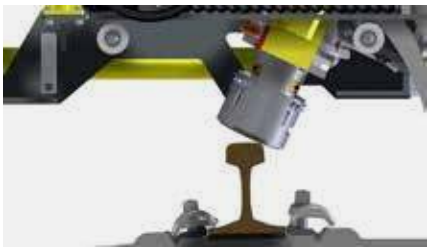
Electric motor cup wheel module



BLDC electric motor E³ cup wheel module



BLDC electric motor E³ cup wheel module 90°





Maximum swivelling range 32° external and 80° internal

ACCESSORIES

Cup wheels

9878081000	Ø 90 mm conical for frog noses and switches, central nut holder M20 (also suitable for the running surface of grooved rails)
9002000330	Ø 90 mm cylindrical for built-up welds, central nut holder M20
9002000687	Ø 125 mm central nut holder M20
9002000688	Ø 125 mm screw fastening 4xM8, pitch circle Ø 90 mm
9002000690	Ø 150 mm central nut holder M20
9002000689	Ø 150 mm screw fastening 4xM8, pitch circle Ø 115 mm

Other cup wheels on request.



Cup wheels

Accessories for E³ cup wheel module

7839900001	Battery 2300 Wh
7879900201	Battery charger 2300 Wh
5039900003	Power supply, 400 Volt
5118930001V	Storage grid for battery
9000208017	Battery box for battery 2300 Wh

SPECIFICATION Module: Rail web grinding

Drive	4-stroke petrol engine	BLDC electric motor
Type	RGX200	
Output	4.6 kW	6.6 kW
Profile grindstone cup wheel outside diameter	135 mm x 90 mm	135 mm x 90 mm
Max. swivelling range	+/– 15°	+/- 15°
Grinding disc speed	3900 rpm	3800 rpm
Module weight	from 34.5 kg	from 24.1 kg

ACCESSORIES

Profile grindstones

9898081080 for rail sections 49E1 to R65
135 x 55 x 90/50/25.4

9002000556 for rail sections smaller than 49E1
135 x 55 x 70 x 20 x 25,4

5138930008 Wire brush with protective cover



RGX200 rail web grinding module



BLDC electric motor E³ rail web grinding module



Grinding disc module GX 270



Electric motor grinding disc module



Grinding disc module GX 200



BLDC electric motor E³ grinding disc module



RGX200 cup wheel module



ROGRIND 13.63 BASE FRAME



BLDC electric motor E³ rail web grinding module



BLDC electric motor E³ cup wheel module 90°



Electric motor cup wheel module



BLDC electric motor E³ cup wheel module



RGX200 rail web grinding module

ROTRIM 14.10 Hydraulic Weld Trimmer



ROTRIM 14.10 – 8859900014
Shear blade set FORM B – 9801410001

To trim thermite welded rail welds.

THE ADVANTAGES. YOUR BENEFITS.

Reliable and ergonomic handling

- Long life of machine due to sturdy design using fine-grained steel
- Easy handling due to ergonomic handles
- Follow-up grinding minimised due to individual setting of trim height
- Reduced wear of shear blades due to adjustable stop screws
- Precise work result due to quadruple pressure pads and double longitudinal guide of shear blades

Easy and quick removal of welding beads

- Double-acting hydraulic cylinders press individually adjusted shear blades against each other
- No hot cracks in the weld due to simultaneous shear blade application from two sides

SPECIFICATION

Dimensions (L x W x H)	
With hand pump	860 x 360 x 325 mm available with wide frame of 440 mm
Without hand pump (for high-pressure power pack)	805 x 360 x 220 mm available with wide frame of 440 mm
Weight	
With hand pump	from 49.5 kg (weight with wide frame from 55.5 kg)
Without hand pump (for high-pressure power pack)	from 40.7 kg (weight with wide frame from 46.7 kg)
Two shear blades	2.8 kg each (FORM B) or 4.7 kg each (FORM A)
Shearing force at max. permissible operating pressure	
With hand pump	500 bar/200 kN
With hydraulic power pack	550 bar/220 kN
Max. stroke	160 mm

ACCESSORIES

Shear blade sets

8859900001	FORM B for 49E1/54E3/54E2
9801410001	FORM B for 60E1/54E1/R50/R65
8859900003	FORM B for 132 LB
9801410030	FORM A for 132 RE, 140 RE, R65
9801410033	FORM A (with riser) for 49E1/54E3/54E2
9801410034	FORM A (with riser) for UIC60



Shear blade FORM A (with riser)



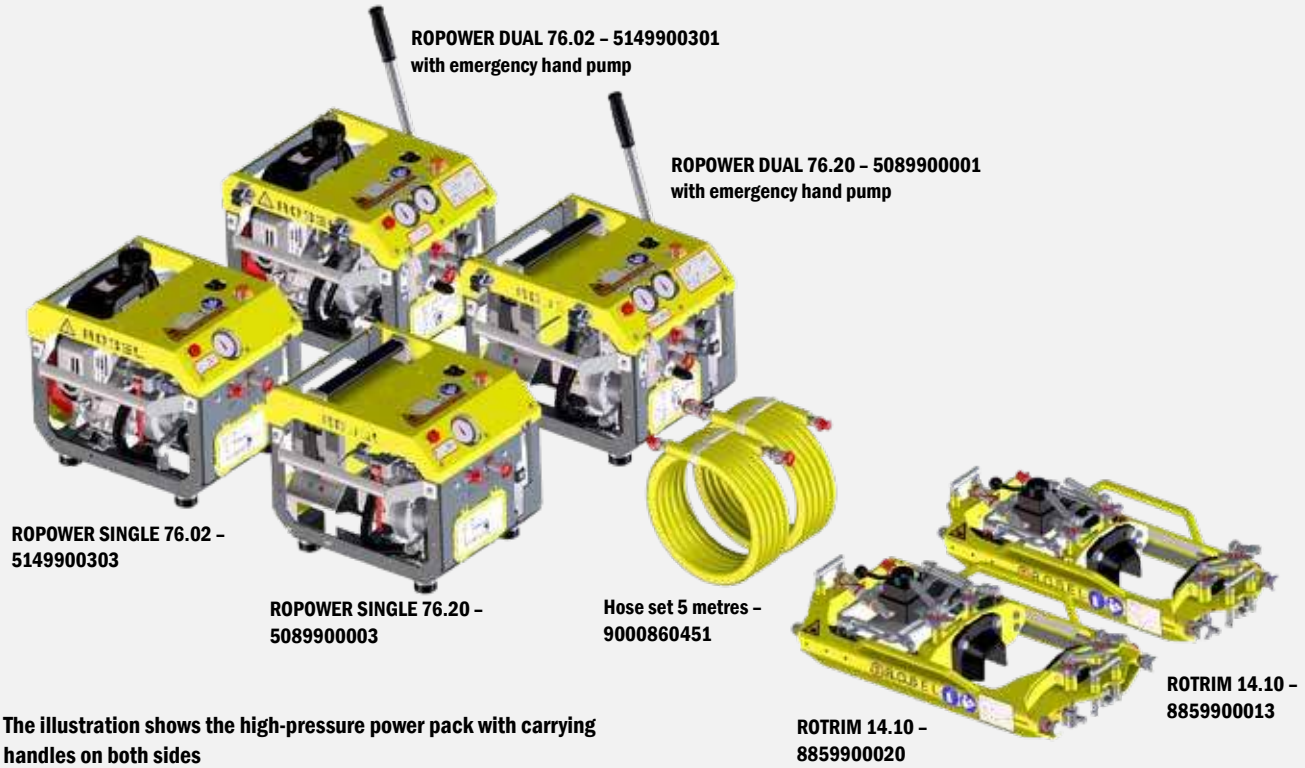
Shear blade FORM B

Hose sets 5 metres (only for weld trimmers with power pack)

5087900003	Parker/Cejn for old weld trimmers (14.10/version 07) + new power packs (76.02/76.20) or for new weld trimmers (14.10/version 08 and version 09) + old hydraulic power packs (76.01)
9000860451	Cejn/Cejn for new weld trimmers (14.10/version 08/09) + new power packs (76.02/76.20)



ROTRIM 14.10 – 8859900014 with ROPOWER 76.02 – 5149900303



The illustration shows the high-pressure power pack with carrying handles on both sides

Suitable handles must be selected in addition for each high-pressure power pack:

5088930001	Carrying handles 4 sides
5148930301	Carrying handles 2 sides

A suitable shear blade set must be selected for each trimmer in addition – see above for available shear blade sets – other shear blade sets on request.

ROFACE 16.01 Rail Milling Machine



ROFACE 16.01 – 8069900002

For the milling of frogs* and rails (e.g. for drainage grooves in grooved rails).

THE ADVANTAGES. YOUR BENEFITS.

Powerful & efficient
- Controlled removal of material for all types of crack and damage
- Uniform machining of damaged areas without application of heat
- Compact design
- Milling of drainage grooves in grooved rails possible

Cost effectiveness
- Low repair costs due to
  - Time savings compared to manual machining
  - Optimum use of short possessions
  - Short set-up time
- Cost savings due to repair instead of replacement

User-friendly
- Modular design of machine
- Easy handling
- Magnetic mounting for work on rails embedded in asphalt as special equipment

Suitable for hardened rails and frogs with a tensile strength up to 880 N/mm².
Please get in touch with your ROBEL contact.

SPECIFICATION

Drive	electric motor 400 V
Output	2 kW
Quantity of metal removed from 60E1 frog	7 kg (steel/h)
Service life/milling cutter on 60E1 frog	1 to 2 h
Diameter of milling cutter	16/20 mm
Dimensions (L x W x H)	1000 x 500 x 650 mm
Weight of cutter head from	41 kg
Weight without magnetic mounting	from 62 kg
Magnetic mounting weight	from 32 kg

ACCESSORIES

9801601001	Transport and storage box for storage and safe transport of the machine (highly recommended)
9801601002	Transport and storage box for storage and safe transport of the machine with magnetic mounting (highly recommended)
9000600473	End mill 4-edged, Ø 16 mm Length 92 mm
9002501731	Collet chuck for end mill Ø 16 mm
9000600464	End mill 4-edged, Ø 20 mm Length 90 mm
9002500219	Collet chuck for end mill Ø 20 mm
8069910002	Indicator (depth stop)



Transport and storage box – 9801601001

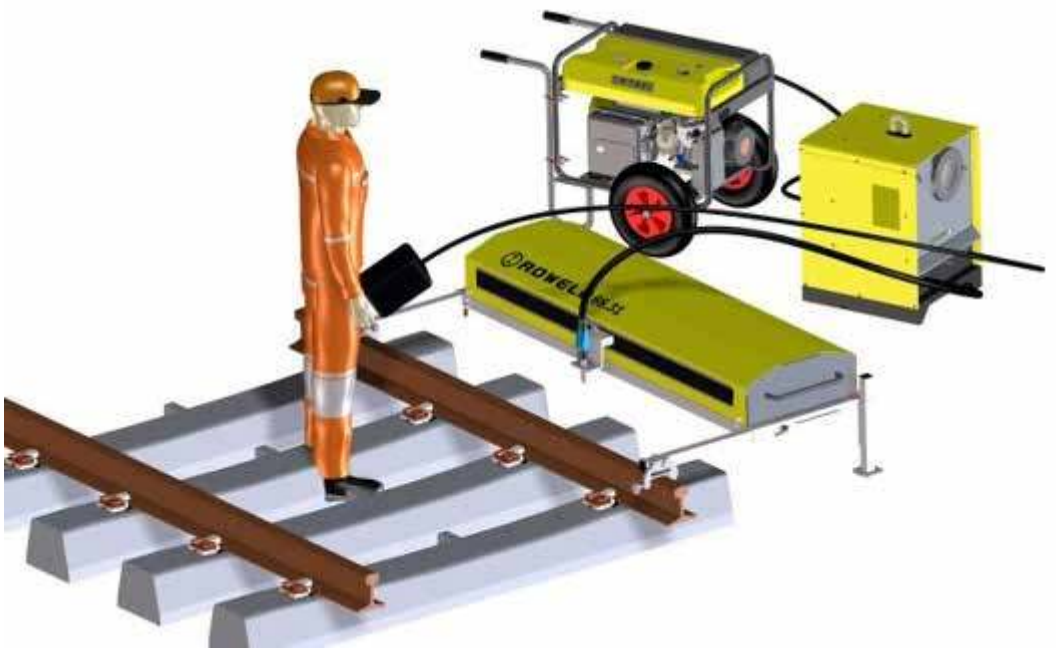



Drainage groove with ROFACE rail milling machine

Comparison of ROBEL drainage groove and welding torch


Drainage groove with welding torch

ROWELD 66.31 Automated Build-Up Welding Machine



ROWELD 66.31

For the automatic and efficient maintenance of rails through precision build-up welding.

THE ADVANTAGES. YOUR BENEFITS.

- Consistent, high-quality welding thanks to the fully automated, robot-controlled arc welding system
- Very simple and cost-effective build-up welding of manganese and carbon rails in switch areas, as well as of carbon rails on open track
- The automatic control system allows for the programming of various welding patterns
- The programmed sequence of welding passes for different patterns significantly reduces heat generation, which is ideal for the sensitive properties of manganese steel
- Robust yet lightweight construction for easy handling and hassle-free transport
- Setup and operation by two people
- The automated control system minimizes
- The welding gun can be easily removed from the automatic welding machine for manual use
- Power supply also possible via a generator

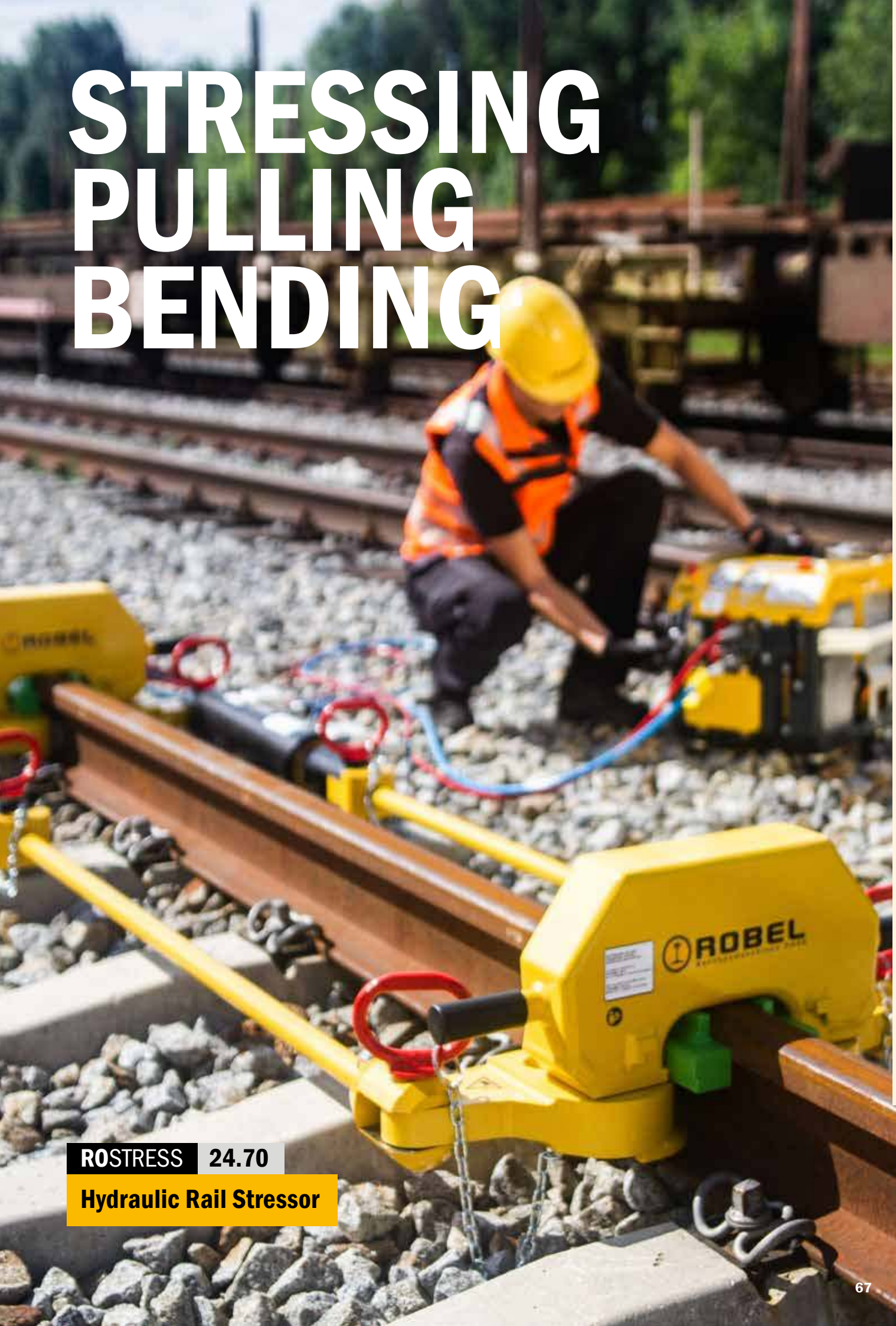
Consists of:

- 1. Automated welding machine (machine with frame base)
- 2. Control unit
- 3. Wire feeder with hose assembly
- 4. Welding inverter

SPECIFICATION

Automated welding machine	
Voltage source	400V 32A
Workspace	1500 mm length (x-axis)
	400 mm width (y-axis)
Welding speed	3 to 20 mm/s
Dimensions (L x W x H)	2400 x 1300 x 600 mm
Welding inverter	
Voltage source	400V 32A
Dimensions (L x W x H)	580 x 300 x 520 mm
Weight	
Machine	50 kg
Frame base	21 kg
Control unit	3 kg
Wire feeder	19 kg
Welding inverter	32 kg

STRESSING PULLING BENDING



ROSTRESS 24.70

Hydraulic Rail Stressor

ROBEND 22.28 Switch Blade Lining Device

For bending switch rails.

A close fit of the switch blade on the stock rail is a condition for a train travelling through the switch at the permitted speed, highest level of safety and as smoothly as possible. The railway regulations determine the permissible amount of lining.



ROBEND 22.28 – 7269900101 – with pressure gauge mounting and guard

THE ADVANTAGES. YOUR BENEFITS.

- For maintenance work and repairs on switches
- To increase or decrease the radius in the area of the switch blade
- Application for lining and removal possible by one person
- Transport on rail due to integrated roller
- Hydraulic oil biologically degradable

SPECIFICATION

Drive	two-stage hand pump
Operating pressure	max. 700 bar
Compressive force	max. 250 kN
Max. travel	150 mm
Dimensions (L x W x H)	930 x 125 x 500 mm
Weight	from 80 kg
Heaviest individual component	from 51 kg

ACCESSORIES

7260701010	Profile jaws for 60E1, 2 off required
7260601010	Profile jaws for 49E1/54E3, 2 off required
8002228004	Transport and storage box, wooden, with lockable lid and carrying handles

Accessories for other gauges on request.



Profile jaws

ROBEND 22.38 Hydraulic Rail Bender

For bending and lining (in the Y-axis) of rails up to approx. 60 kg/m.

Optionally also for grooved rails (see accessories)

THE ADVANTAGES. YOUR BENEFITS.

- Aluminium frame
- Interchangeable claws
- Claws for flat bottom rails included
- Automatic return of piston using spring force
- Easy operation in all work positions
- Available with a pressure gauge as an option
- Supplied in a wooden box



ROBEND 22.38 (with pressure gauge) – 9802238200



ROBEND 22.38 (without pressure gauge) – 9802238100

SPECIFICATION

Compressive force	550 kN
Dimensions (L x W x H)	880 x 750 x 240 mm
Weight	from 74 kg

ACCESSORIES

8002238015 Claws for grooved rails incl. pressure pad

Grooved rail profile blocks
To prevent deformation of the grooves (2 blocks are always required)

8002238006 Spacing for RI60

Profile blocks for other gauges on request.



Claws and pressure pads for grooved rails



Grooved rail profile block

ROGAUGE 24.06 Gauge Bar

For adjusting or maintaining a defined gauge.

ROGAUGE Iso

- **Insulated**
- Can be fitted simply and easily to the foot of the rail
- For rails with a base width of 125 mm to 150 mm (e.g. 49E1/54E3 and 60E1)


ROGAUGE 24.06 Iso – 8249900006

ROGAUGE Iso Flat

- **Insulated**
- For slab track (spacing concrete–rail > 35 mm) and for ballasted track
- For rails with a base width up to 160 mm


ROGAUGE 24.06 Iso Flat – 8249900018

ROGAUGE Iso Switch

- **Insulated**
- Cropped design perfect for use in switches
- No danger of tripping due to design
- Can be fitted simply and easily to the foot of the rail
- Can also be used on open track


ROGAUGE 24.06 Iso Switch – 8249900403

ROGAUGE

- **Not insulated**
- Mounted to the grooved plates (K; KS track)
- Adjustment via threaded spindle when installed

Adjustment via threaded spindle when installed.
Different gauges available on request.


ROGAUGE 24.06 – 8002406002

ROSHOE 24.08 Rail Pulling Shoe

For pulling rails in the ballast.

- For various types of rail up to a rail length of 180 m, depending on the condition of the track
- Can be used for drilled and undrilled rails
- Does not cause impressions or deformations of the rail

Rail profiles on request.


ROSHOE 24.08 – 8002408001

SPECIFICATION

Dimensions (L x W x H)	455 x 216 x 280 mm
Weight	approx. 39 kg

ROPULL 24.12 Hydraulic Rail Pulling and Pushing Device



ROPULL 24.12 – 8129900006
Spacer jaws – 8002412013 (60E1)



ROPULL 24.12 – 8129900007
Spacer jaws – 8002412013 (60E1)

For pulling and pushing flat bottom rails quick and without effort.

THE ADVANTAGES. YOUR BENEFITS.

- Compact design
- Equipped with 1 hydraulic cylinder, double-acting, with carrying handle and 2 clamping heads as standard
- Drive: ROTHREAD 43.32 Rail Threader or hand pump and gear pump with cordless screwdriver

NOTE:
Cordless screwdriver is not included in scope of delivery.

SPECIFICATION	8129900006	8129900007
Drive	By ROTHREAD 43.32 Rail Threader	Hand pump and gear pump with cordless screwdriver*
Max. tensile/compressive force	60 kN / 80 kN	60 kN / 80 kN
Piston travel	400 mm	400 mm
Max. pressure in hydraulic system	160 bar	160 bar
Dimensions (L x W x H)		
Unit incl. 2 clamping heads	900 x 315 x 585 mm	900 x 315 x 585 mm
Weight		
Unit	27.5 kg	32.0 kg
Clamping head 49E1	21.5 kg	21.5 kg

ACCESSORIES

8002412008 Extension 1100 mm (for pulling with gaps between 940 mm and 2000 mm)
8002412016 Extension 800 mm (for pulling with gaps between 940 mm and 1700 mm)
8127900001 Hose set 24.12, length 5m (for 8129900006)
9002009058 Socket wrench (for 8129900007)
8128930001 Running gear

Spacer jaw sets – 4 pieces
(to adjust clamping heads to rail type)
8002412011 Spacer jaw set form B for 49E1, 54E3, 46E3
8002412012 Spacer jaw set UIC54E, 54E1
8002412013 Spacer jaw set 60E1

Spacer jaw sets for other rail types on request.

* Torque for drive gear pump: required constant torque 25 Nm


Spacer jaws

ROSTRESS 24.70 Hydraulic Rail Stressor



ROSTRESS 24.70 – 8749900021


ROSTRESS 24.70 – 8749900007


ROSTRESS 24.70 – 8749900009

The modular concept for generating neutral rail stress during welding and stressing work.

THE ADVANTAGES. YOUR BENEFITS.

Flexibility due to configurable modular system
- Standard cylinder, aluminium
- Hollow piston cylinder
- 3rd rail module for use at conductor rails

Fast installation and dismantling independent of clearance gauge
- Safe and easy operation
- Low weight of individual components
- Simple fitting, no lifting gear required
- Can be driven over when fitted in some instances

Hydraulic power supply
- Two-stage hand pump
- Dual hydraulic power pack 76.02 with combustion engine
- Dual hydraulic power pack 76.20 E³ with ROBEL battery
- For operation with low-pressure units (e.g. road/rail excavator)

For further information see Power/Lighting.

SPECIFICATION	Standard	Hollow piston cylinder	3rd Rail
Tensile force	700 kN	700 kN	700 kN
Compressive force	400 kN	/	/
Stroke Aluminium	380 mm	200 mm	380 mm
Dimensions (L x W x H) when installed	2650 x 1120 x 375 mm	2500 x 1010 x 375 mm	3070 x 930 x 375 mm
Drawbar system	Standard	Threaded rods	Standard/yoke in work area
Drawbar length	from 1500 mm	2000 mm	Work area 850 mm
Installation independent of clearance gauge	yes	yes	no
Threaded rods and drawbars can be combined in any order			
Weight			
Heaviest individual component	33 kg	33 kg	33 kg
Hand pump	23 kg	23 kg	23 kg
Hydraulic power pack 76.02 Dual	from 47 kg	from 47 kg	from 47 kg
Hydraulic power pack 76.20 E³ Dual	from 38 kg excl. battery	from 38 kg excl. battery	from 38 kg excl. battery
Battery 800 Wh	6.3 kg	6.3 kg	6.3 kg
Hydraulic power packs optionally with hand pump for emergency operation: +3 kg			
Pressure intensifier	15 kg	15 kg	15 kg

Maximum flexibility



Zum Betreiben von ROSTRESS 24.70
siehe ROPOWER 76.02/76.20 E³

5087900005	Hose set for rail stressor with lashing protection (increased safety). From version 8,emergency pressure relief at distributor block as standard
5087900006	Hose set for operating a second rail stressor
5088930003	Distribution block

Optional accessories:
Supports (for installation independent of clearance gauge for various rail profiles)

8747900004	90RE, 136RE, 140RE, BV50
8747900005	115RE, 119RE, 132RE
8747900008	60E1, 49E1, 54E3, AS47, AS50, AS53, AS60, R65, UNI60, 50E4

Supports for other rail profiles on request.

8748100008	Lifting beam
8749910007	Piston rod guard (for standard aluminium cylinder 380 mm)
8748960300	Transport box

Accessories for version with hollow piston cylinder:

8741850009	Drawbar 1.6 m
8741850007	Drawbar 2.0 m
8741850260	Drawbar 3.0 m
9001300269	Connecting sleeve

Accessories for version with aluminium cylinder:

8740310001	Drawbar 0.6 m
8740320001	Drawbar 1.2 m
8740300009V	Drawbar 1.5 m
8740350001	Drawbar 3.2 m
8741851005	Drawbar 4.0 m


Lifting beam – 8748100008


Rail supports for use independent of clearance gauge


Piston rod guard for standard version with aluminium cylinder

ROCARRY 25.16 Rail Carrying Roller



ROCARRY 25.16 – 8002516001 (without carrying handles)



ROCARRY 25.16 – 8002516003 (with carrying handles)

For moving long-welded rails.

Robust steel design with maintenance-free ball bearings

SPECIFICATION

Max. load	0.7 t	0.7 t	0.7 t	0.7 t
Max. width of rail foot	170 mm	170 mm	230 mm	170 mm
Leg bent 50 mm downwards	no	yes, inside dimension 170 mm	no	yes, inside dimension 220 mm
Dimensions (L x W x H)	from 256 x 130 x 120 mm			
Weight	from 7.3 kg			

ROLAX 26.01 Rail De-Stressing Machine



ROLAX 26.01 – 9802601200

To remove stresses from the rail and establish the nominal length of the rail by striking the rail head on both sides.

THE ADVANTAGES. YOUR BENEFITS.

Precise & powerful
- Height-adjustable hammers
- Continuously adjustable number of hammer strikes via gas activation

User-friendly
- LED lighting on both sides perfectly illuminates the work area
- Can be operated in both directions
- Carrying handles and lifting lugs

Safe
- Easily lockable guard in work area
- Engine can be started only if the guard is in place
- Emergency stop button and deadman‘s brake on both sides

Low-maintenance
- Centrifugal clutch



Hammers with lockable guard screen

SPECIFICATION

4-stroke engine	Honda GX200
Output	4.1 kW
Dimensions (L x W x H)	2660 x 1240 x 970 mm
Gauge	1435 mm
Weight	from 250 kg
Number of strikes	continuously adjustable, 45 – 60 strikes per rail

ROHEAT 66.01 Rail Heater



ROHEAT 66.01 Version 07 – 669900007

To create the nominal rail temperature for length compensation before welding. Available in different versions.

THE ADVANTAGES. YOUR BENEFITS.

Powerful and precise
- High heat output due to use of liquefied gas
- Low gas consumption with constant heat output due to optimised burner position and adapted guard plates.
- Precise positioning due to graduated setting of burner distance
- Heat protection of track due to adjustable burner distance

Safety for operator and machine
- Valves and coupling suitable and tested for the application required in the liquid phase and for operation
- Optimised securing of gas cylinder with lashing straps or chains
- Manual torch holder
- Controlled gas supply during ignition due to isolating valve at burner unit
- Fire extinguisher included
- Deadman‘s brake (EN13977)

Ergonomics and simplified logistics
- Ergonomic due to height-adjustable handles
- Folding handles
- Removable baffle at version 05 and 06
- Frame in light-weight construction
- Standard-compliant carrying due to carrying handles on the burner unit and frame (EN13977)
- Easy transport and higher ergonomics with divisible design

Flexibility
- Various cylinder neck sizes of Ø 115 mm, Ø 220 mm or Ø 265 mm
- Optional connecting bar for parallel use of two rail heaters
- Two-cylinder version for propane cylinders with riser

SPECIFICATION	Version 05	Version 06	Version 07
Dimensions (L x W x H)	3400 x 730 x 890 mm	3400 x 730 x 890 mm	3220 x 735 800 mm
Dimensions transport (L x W x H)	2300 x 730 x 890 mm	2300 x 730 x 890 mm	1355 x 735 x 640 mm (Frame)
			1560 x 635 x 295 mm (Burner unit)
Divisible	Removable baffle	Removable baffle	Frame and burner unit divisible
Weight without gas cylinder	92 kg	96 kg	from 86 kg
Weight burner unit			from 34 kg
Weight frame			from 52 kg
Gas cylinder	1 propane cylinder	2 propane cylinders	1 propane cylinder
	from 33 kg	10.5 kg each	from 33 kg

ACCESSORIES

Connecting bars to connect two units

8668980004	Connecting rods for version 07, different gauges available
8668980003	Connecting bar, gauge 1000/1435/1520 mm for version 05 & 06
8911164032	Outrigger, isolated with weight



Connecting bar – 8668980003

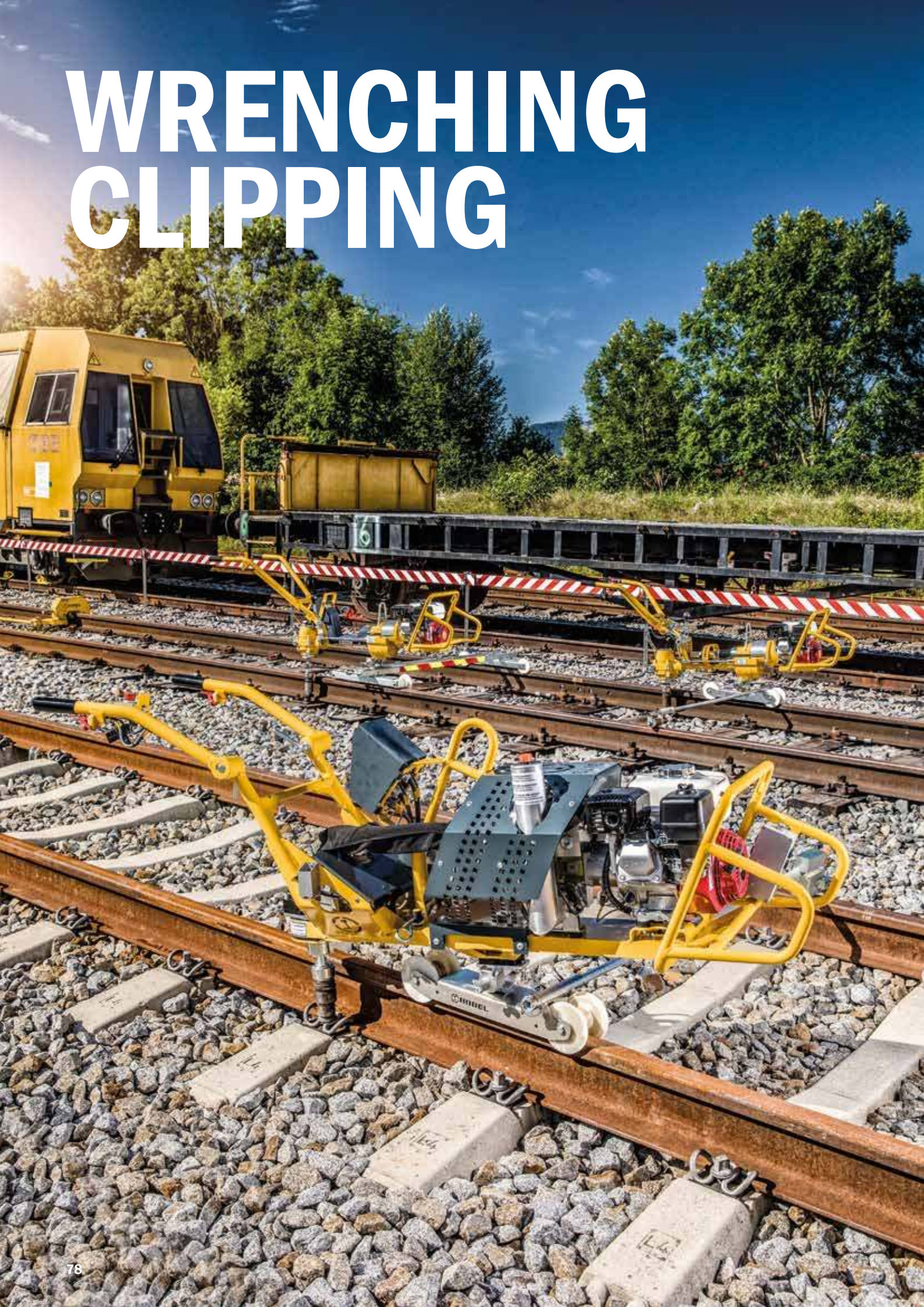


ROHEAT 66.01 Version 05 – 8669900007



ROHEAT 66.01 Version 06 – 8669900008

WRENCHING CLIPPING



ROMPACT 30.09 Portable Impact Wrench

For tightening and loosening nuts and sleeper and fishplate bolts.

THE ADVANTAGES. YOUR BENEFITS.

Powerful and robust
- Rugged and powerful with easy operation
- Easy to handle in every work position
- 1-inch square drive
- Clockwise/counter-clockwise rotation
- Vibration-damped handles
- With centrifugal clutch


ROMPACT 30.09 – 8099900005

SPECIFICATION

Drive	2-stroke petrol engine
Type	Husqvarna
Output	2.7 kW
Torque	2000 Nm, depending on joint hardness
Dimensions (L x W x H)	670 x 450 x 300 mm
Weight	from 20.9 kg
Weight of one socket	from 1.5 kg

ACCESSORIES

Sockets
Other sockets available on request.

Hexagonal

9871033313	AF 30
9871033309	AF 32
9002501223	AF 34
9871033314	AF 35
9871033311	AF 36
9871033315	AF 38
8098950100	AF 39 Special 230 mm
9871033391	AF39
9871033304	AF 41
9871033308	AF 42
9002501224	AF 46

Rectangular

9871033317	rect. 18 x 26
9800308006	rect. 20,5 x 24,5
9871033302	rect. 21 x 28
9871033305	rect. 30 x 22

Square

9871033303	SQ 19 x 19/17 x 17
9871033318	SQ 21 x 21
9871033306	SQ 22 x 22
9871033319	SQ 24 x 24

Special sockets

8003062130	Combined socket AF 41 & rect. 21 x 28


Hexagonal socket


Rectangular socket


Square socket

Drill adapter/drill bit
Other drill bits available on request.

8099910001 SDS Plus chuck adapter

Sleeper drill bits
Max. driling depth 150 mm
with SDS Plus adapter

9002501808	Ø 14 mm
9002501809	Ø 16 mm
9002501810	Ø 18 mm
9002501811	Ø 20 mm
9002501812	Ø 22 mm


Sleeper drill bit with SDS Plus adapter

Miscellaneous

8003009006	Extension 180 mm/1" adapter
8003009005	Extension 330 mm/1" adapter
9909992145	O-ring, circlip to secure socket
9900070056	Cylindrical pin Ø 5 mm to secure socket

Adaper for tools for sleeper renovation (see ROWRENCH 30.83):

8338930003	Adapter square 24 mm to 1 inch
8338930004	Adapter 1inch to square 24 mm

ROMPACT 30.10 Portable Impact Wrench

For tightening and loosening nuts and sleeper and fishplate bolts.


ROMPACT 30.10 – 8359900006

THE ADVANTAGES. YOUR BENEFITS.

Compact and robust
- Centrifugal clutch and change gear
- 1-inch square drive

Ergonomic and flexible
- Adjustable speed
- Low-vibration operation

SPECIFICATION

Drive	2-stroke petrol engine
Output	1.57 kW
Max. torque	1700 Nm, depending on joint hardness
Vibration damping	Yes
Dimensions (L x W x H)	700 x 390 x 360 mm
Total weight	from 21.6 kg
Socket weight	from 1.5 kg

ACCESSORIES

Sockets
Other sockets available on request.

Hexagonal

9871033313	AF 30
9871033309	AF 32
9002501223	AF 34
9871033314	AF 35
9871033311	AF 36
9871033315	AF 38
8098950100	AF 39 Special 230 mm
9871033391	AF39
9871033304	AF 41
9871033308	AF 42
9002501224	AF 46

Rectangular

9871033317	rect. 18 x 26
9800308006	rect. 20,5 x 24,5
9871033302	rect. 21 x 28
9871033305	rect. 30 x 22

Square

9871033303	SQ 19 x 19/17 x 17
9871033318	SQ 21 x 21
9871033306	SQ 22 x 22
9871033319	SQ 24 x 24

Special sockets

8003062130	Combined socket AF 41 & rect. 21 x 28


Socket hexagonal


rectangular


Socket square

Drill adapter/drill bit
Other drill bits available on request.

8099910001	SDS Plus chuck adapter

Sleeper drill bits
Max. drilling depth 150 mm with SDS Plus adapter

9002501808	Ø 14 mm
9002501809	Ø 16 mm
9002501810	Ø 18 mm
9002501811	Ø 20 mm
9002501812	Ø 22 mm

Miscellaneous

8003009006	Extension 180 mm/1" adapter
8003009005	Extension 330 mm/1"adapter
9909992145	O-ring, circlip to secure socket
9900070056	Cylindrical pin Ø 5 mm to secure socket

Adapter for tools for sleeper renovation (see ROWRENCH 30.83):

8338930003	Adapter square 24 mm to 1 inch
8338930004	Adapter 1inch to square 24 mm


Sleeper drill bits with SDS Plus adapter


Combined socket

ROWRENCH 30.73PSM Hydraulic Precision Power Wrench



ROWRENCH 30.73PSM – 7739900002
Travelling gear – 5018200006
Outrigger – 7730800001

Exemption from the 1% rule
DB RIL824.5050

THE ADVANTAGES. YOUR BENEFITS.

Time saved, quality increased
- Measurement with integrated torque wrench
- Machine immediately ready to use due to measurement with integrated torque wrench
- No checking of measurement required
- The torque is measured electronically at the wrenching motor and not calculated from the hydraulic pressure
- Actuation by means of 2 push-buttons (unscrew/screw down)

Intelligent calibration
- Self-learning and intuitive controller with target/actual value comparison
- Constantly high wrenching precision
- No manual recalibration on the worksite
- Annual check in own workshop or anywhere when on the move

Minimised labour costs, wrenching made easy
- Faster wrenching
- High tightening/loosening torque for rusty rail fastenings and for dismantling screws without stalling the engine
- Selection of track type at the push of a button
- Height-adjustable and foldable guide handles

Work result fully documented
- Recording of each wrenching process
- Captures wrenching frequency, kilometre marking and wrenching mode
- Recognises defective screws and damaged threads
- Output of coded results (log) via USB
- Verifiable performance protects against future claims
- Height-adjustable and foldable guide handles
- GPS link for precise information of working position to optimise reporting

High operational safety
- Aluminium covers
- Low downtime
- Fewer spare parts and repairs
- No capital tied up in replacement machines



Control unit with colour display

PRECISION WRENCHING

The next generation.
The fully hydraulic precision power wrench ROBEL ROWRENCH 30.73PSM tightens and loosens every screw connection precisely to the specified torque. The combination of high spindle speed and high loosening torque accelerates the wrenching process, makes work easier and reduces costs. Independent of external effects, the ROWRENCH30.73PSM documents consistently accurate measuring results which are captured exactly where they are taken. Control measurements and reworking are no longer required.

FOCUS ON THE OPERATOR

Symbiosis of ergonomics and efficiency
Ergonomic design ensures the long-term retention of the workforce. Employees benefit from better health, companies benefit from greater efficiency.

The ROBEL ROWRENCH 30.73PSM provides
- Maximum operator safety and convenience
- Increase in work quality

due to:
- Operator posture minimising discomfort
- Weight less than 100 kg
- Optimum machine balance
- Height-adjustable guide handles
- Safe 2-hand control



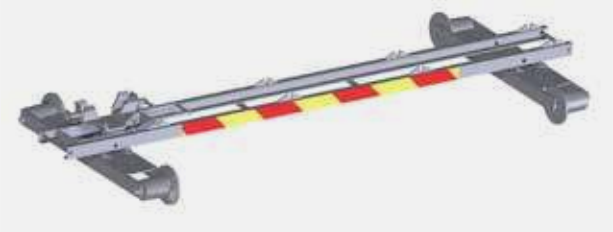


SPECIFICATION

Drive air-cooled	4-stroke petrol engine
Type	Honda GX200
Output	4.3 kW
Spindle speed: adjusts automatically	max. 205 rpm
Loosening torque	max. 900 Nm Loosening torque
Tightening torque	max. 500 Nm Tightening torque
Torque base setting as per DB RIL824.5050	up to 250 Nm
Dimensions (L x W x H)	
Transport position	1530 x 500 x 670 mm
Working position	2090 x 650 x 960 mm
Weight of machine	from 92 kg
Weight, monorail trolley / outrigger	from 7 kg
Weight, transverse bogie	from 28 kg

OPTIONS

1. Travelling gear



5010820006 Monorail trolley (GX 200 engine, electric)
7730800001 Outrigger, gauge 1435 mm incl. counterweight and rail fastening (GX 200 engine, electric)
7730750001 Transverse bogie, gauge 1435 mm (60 mm height above top of rail, plastic rollers) for transverse bogie without cant

Other travelling gears and gauges available on request.

2. Extensions

for transverse bogie without cant:
7738950140 Transverse bogie, split, articulated sockets

3. Sockets

(see Socket Overview for other sockets)

8003062001 Hex AF 39 split, articulated socket with ejector 8003062017 Hex AF 41 split, articulated socket with ejector
8003062005 Rectangular 28 x 21, split, articulated socket





ACCESSORIES

USB stick
9008000057 Spare USB stick

Torque meter attachment
7738950110 for annual calibration

Torque wrench
9002501350 for annual calibration (set to 250 Nm)

Oil change kit
7739910005 for easy change of hydraulic oil

Travelling gear with rubber wheels
8320820001 for working in areas with slab track

Transport frame
7738960001 universal setting (30.73, 30.82RKS, 30.82HKS, 30.82HKS E³, 30.83)

Toolbox
8328980100 toolbox for fitting on transverse bogie

Cover
9000100065 for weather protection



Travelling gear with rubber wheels 8320820001



Transport frame – 7738960001



Hood-shaped cover

ROWRENCH 30.77 Automated 8-Spindle Precision Power Wrench



ROWRENCH 30.77 - 5779900301

For simultaneous tightening or loosening of up to 8 rail fastenings in one step.

THE ADVANTAGES. YOUR BENEFITS.

- Low personnel costs - only one operator is required
- Automated and fast wrenching
- Selection of track type via control panel on the machine
- Detects the screw and positions the wrenching spindle automatically
- With automatic spring clip insertion and extraction (W type track)
- Safe operation thanks to user-friendly remote control
- Dead man‘s switch for transfer travel and working mode
- Constantly high wrenching precision
- Reacts to torque and regulates the spindle motor speed
- Recording of wrenching results, torque and GPS data
- Self propelled by an electric generator
- Machine designed by approval purposes according to EN 15746 (superstructure rail road machines)
- Removing the generator quick and easy to archive weight reduction while inserting and removing rails with a rail-road excavator
- Easier maintenance due the possibility to remove the generator

SPECIFICATION

Track gauge	1435 mm
Working speed	tightening: up to 450 m/h; loosening up to 720 m/h (without spring clip insertion/extraction)*
	tightening: up to 350 m/h; loosening up to 450 m/h (with spring clip insertion/extraction)*
Speed	up to 19 km/h (transfer travel), up to 5 km/h (with remote control)
Torque	
Tightening torque	max. 350 Nm
Loosening torque	max. 900 Nm
Smallest radius	approx. 75 m
Sleeper spacing	approx. 600 mm
Sleeper hollow space	up to 20 mm
Dimensions (L x B x W)	
Working Position (with roof folded up)	4720 x 2320 x 2900 mm
Transport Position (with roof folded in)	4720 x 2320 x 2400 mm
Weight with generator	approx. 5.3 t
Weight without generator	approx. 4.6 t

*depending on the type of superstructure, its condition, required tightening torque, etc.

ROWRENCH 30.82RKS Universal Power Wrench



ROWRENCH 30.82RKS – 8059900025

For tightening and loosening nuts and sleeper, hook and fishplate bolts.

THE ADVANTAGES. YOUR BENEFITS.

Fast wrenching. Optimum result.
- Intuitive setting of torque via potentiometer
- High throughput due to high spindle speed
- Selection between two gears depending on stiffness of screw
- Automatic detection of stiffness when unscrewing avoids motor stop

User-friendly and ergonomic
- Large-area illumination of working area through LED lighting on the guide handle
- Continuously height-adjustable and foldable guide handles
- User-friendly control unit with intuitive and multilingual menu navigation
- Ergonomic arrangement of operating elements
- Choice between hand or foot operation when changing rotational direction
- User-friendly push-button
- Low weight

Robust construction. Minimised maintenance costs.
- Long service life due to no-maintenance electronic disc clutch
- Long component life and high-quality workmanship
- High flexibility due to parted screw spindle
- Use of one-piece and articulated sockets possible
- Protection of the control unit and wiring harness due to robust aluminium cover

Wide range of applications. Flexible use.
- Work possible without outrigger due to low centre of gravity of the machine
- Tensioning and loosening of all wrenched types of track
- Quick-change chuck for fast change of sockets
- Easy calibration at the construction site



SPECIFICATION

Drive	4-stroke petrol engine
Type	Honda GX200
Output	4.3 kW
Spindle speed	
No-load speed	200 rpm
Load speed	70 rpm
Adjustment range for screwing in and out	
No-load speed	420 to 950 Nm
Load speed	150 to 350 Nm
Loosening torque	max. 1000 Nm
Tightening torque (booster)	max. 1000 Nm
Dimensions	
Transport position (L x W x H)	1490 x 707 x 800 mm
Working position (L x W x H)	1950 x 707 x 800 mm
Machine weight	from 93 kg
Weight, monorail trolley/outrigger	from 7 kg/from 3.5 kg
Weight, transverse bogie	from 28 kg

INDIVIDUAL CONFIGURATION OPTIONS

1. Travelling gear

5010820006 Monorail trolley
8003082012 Outrigger, gauge 1435 mm
7730750001 Transverse bogie without cant
Gauge 1435 mm
(60 mm height above top of rail, plastic rollers)
8003082077 Transverse bogie with cant
Gauge 1435 mm (steel rollers)

Other travelling gears and gauges on request.


Transverse bogie

2. Extensions

for monorail trolley:
5018950001 straight extension for split sockets
5018950005 crowned extension for one-piece rigid sockets

for transverse bogie without cant:
5018950007 straight extension for split sockets
5018950010 crowned extension for one-piece rigid sockets

for transverse bogie with cant:
5018950008 straight extension for split sockets
5018950011 crowned extension for one-piece rigid sockets


Extension

3. Sockets

For other dimensions see separate overview.

One-piece rigid design:
8003082038 Hex AF 38
8003082036 Hex AF 39
8003082071 Hex AF 41
9871033070 Rectangular 28 x 21
9871032123 Square 23 x 23
9871032427 Square 27 x 27
9871033072 Rectangular 24.5 x 20.5


One-piece rigid socket

Split articulated design:
8003062001 Hex AF 39
8003062017 Hex AF 41
8003062005 Rectangular 28 x 21


Split, articulated socket

ACCESSORIES

8003182001 Fish Bolt Spanner 31.82
to release and fasten fishplate bolts

8328950130 Clip bolt removal socket for K-type track


Fish Bolt Spanner – 31.82 8003182001


Clip bolt removal socket – 8328950130

8320820002 Travelling gear with rubber wheels for working in areas with slab track


Travelling gear with rubber wheels – 8320820002

738960001 Transport frame (stackable)
universally adjustable for ROBEL power wrenches of type 30.73, 30.82 RKS, 30.83, 34.01

8328900004 Socket holder at head gear
to fit sockets near spindle


Transport frame – 7738960001

9000100065 Hood-shaped cover for weather protection



Hood-shaped cover

8321570120V Additional carrying handles,
2 additional support points


Carrying handles – 8321570120V

8058930002 Transverse bogie support
To place the transverse bogie on the machine longitudinally

8058930003 Engine support
Additional connection between speed change gearbox and engine base plate for even higher stability of the machine


8058930002

8869900006 Torque meter 86.12+ to calibrate the machine

ROWRENCH 30.82HKS Universal Power Wrench



For tightening and loosening nuts and sleeper, hook and fishplate bolts.

THE ADVANTAGES. YOUR BENEFITS.

Reliable wrenching, precise results.
- Uniform repeat wrenching due to precisely adjustable torque
- Checking of torque on pressure gauge display
- Selection between two gears depending on stiffness of screw
- Fast changeover to maximum torque without changing the torque setting

Robust construction, minimum maintenance costs
- Long service life due to ROBEL high-performance clutch
- Low wear due to permanent oil lubrication of clutch in oil bath

Ergonomic use
- Low weight and compact design with folding guide handles
- Large field of view due to LED lighting of work area
- Height-adjustable guide handles

Flexible use
- Work possible without outrigger due to low centre of gravity
- Tensioning and loosening of all wrenched types of track
- Quick-change chuck for fast change of sockets

SPECIFICATION

Drive	4-stroke petrol engine	4-stroke petrol engine	Electric motor	4-stroke diesel engine
Type	Honda GX200	Honda GX270	400 V, 50 Hz	Hatz 1B20
Output	4.3 kW at 3600 rpm	6.3 kW at 3600 rpm	4 kW at 2880 rpm	3.4 kW at 3800 rpm
Spindle speed				
No-load speed, max.	200 rpm	190 rpm	152 rpm	200 rpm
Load speed	71 rpm	67 rpm	55 rpm	71 rpm
Adjustable tightening torque	from 140 to 300 Nm	from 140 to 300 Nm	from 140 to 300 Nm	from 140 to 300 Nm
Loosening torque				
(momentary up to)	up to 1000 Nm (1200 Nm)	up to 1000 Nm (1200 Nm)	up to 1000 Nm (1200 Nm)	up to 1000 Nm (1200 Nm)
Dimensions (L x W x H)	1900 x 600 x 600-800 mm	1950 x 592 x 600-800 mm	1910 x 475 x 600-800 mm	1900 x 600 x 600-800 mm
Transport position (L x W x H)	1490 x 600 x 575 mm	1542 x 592 x 575 mm	1500 x 475 x 575 mm	1490 x 600 x 575 mm
Conversion Kit 72.01 usable	yes	no	no	no
Weight	from 93 kg	from 105 kg	from 116 kg	from 105 kg

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CONFIGURATIONS

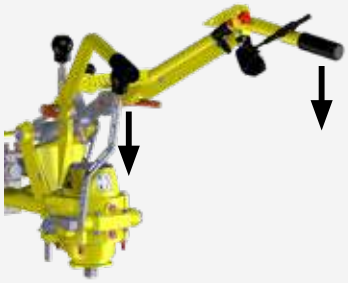
1. CHOICE OF DRIVES (see specification)

2. CHOICE OF HEIGHT-ADJUSTABLE GUIDE HANDLES

a. For depressing on right-hand side only



b. For depressing on both sides



3.CHOICE OF TRAVELLING GEAR AND GAUGE

a. Monorail trolley with outrigger

55010820006	Monorail trolley (GX200 engine)
5010820007	Monorail trolley (GX270 engine, electric, Hatz)
8003082012	Outrigger, gauge 1435mm (GX200/GX270 engine)
7730800001	Outrigger, gauge 1435mm incl. counterweight and rail fixing (GX200/GX270 engine, electric, Hatz)

b. Transverse bogie, four wheels

7730750001	Transverse bogie, gauge 1435 mm (60 mm height above top of rail, plastic rollers)

c. Transverse bogie with cant

8329910018	Transverse bogie with cant Gauge 1435 mm (height above top of rail 100 mm, insulated steel rollers without machine locking bolts)

Other gauges on request.



4. EXTENSIONS

for monorail trolley:

5018950001	Extension for split, articulated sockets
5018950005	Extension for one-piece rigid sockets

for transverse bogie without cant:

5018950007	Extension for split, articulated sockets
5018950010	Extension for one-piece rigid sockets

for transverse bogie with cant

5018950008	Extension for split, articulated sockets
5018950011	Extension for one-piece rigid sockets


Extension

CONFIGURATIONS

5.CHOICE OF SOCKETS

a. One piece

8003082036	Hex AF 39 one-piece rigid socket with ejector
8003082071	Hex AF 41 one-piece rigid socket with ejector
9871033070	Rectangular 28 X 21 one-piece rigid socket

b. Articulated

8003062001	Hex AF 39 split, articulated socket with ejector
8003062017	Hex AF 41 split, articulated socket with ejector
8003062005	Rectangular 28 x 21 split, articulated socket


One-piece rigid socket


Split, articulated socket

See overview for other sockets.

ACCESSORIES

Fish bolt spanner
8003182001 31.82 one-sided design; without socket

Clip bolt removal socket
8328950130 for K-type track

Travelling gear with rubber wheels
8320820001 for working in areas with slab track

Socket holder at head gear
8328900004 to fit sockets near spindle

Cover
9000100065 for maximum weather protection

Torque Meter
8869900006 Torque meter 86.12+ to calibrate the machine

7738960001 Universally adjustable transport frame (30.73, 30.82RKS, 30.83, 34.01)
8321570120V Carrying handles provide 2 additional support points


Travelling gear with rubber wheels


Socket holder at head gear


Clip bolt removal socket – 8328950130


Transport frame (stackable)


Carrying handles – 8321570120V


Fish bolt spanner ROBOLT 31.82

ROWRENCH 30.83 Combined Power Wrench and Drilling Machine


ROWRENCH 30.83 – 8339900009

For all drilling and wrenching tasks that arise in track construction.
Particularly suitable for dowel repairs.

THE ADVANTAGES. YOUR BENEFITS.

Reliable dowel repair
- Flexible use on track, switches and other areas
- Checking of torque on pressure gauge display
- Clockwise/counter-clockwise rotation
- With engine stop

Robust construction, minimum maintenance costs
- Strong, robust design
- Long service life due to ROBEL high-performance clutch
- Low wear due to permanent oil lubrication of clutch in oil bath

Ergonomic use
- Easy operation in all work positions
- Large field of view due to LED lighting of work area
- Folding and height-adjustable guide handles
- No transfer of the wrenching torque to the operator

Optional: with depth stop available

SPECIFICATION

Drive	4-stroke petrol engine	Electric motor
Type	Honda GX270	400V, 5 Hz
Output	6.3 kW bei 3600 rpm	4.0 kW bei 2870 rpm
Spindle speed		
No-load speed	189 rpm	150 rpm
Load speed	67 rpm	55 rpm
Max. drill bit diameter	38 mm	38 mm
Max. drilling depth	180 mm	180 mm
Travelling gear	Monorail trolleys with outrigger available for all gauges	
Dimension (L x W x H)	1950 x 590 x 600-800 mm	2025 x 650 x 600-800 mm
Transport position (L x W x H)	1540 x 590 x 575 mm	1660 x 590 x 600 mm
Weight	from 126 kg	from 146 kg

Wooden sleeper renovation

1) 8910839015 Taper sleeve MK4
2) 9002501278 Drill bit Ø 43 mm, MK4
3) 8003083002 Tool holder for tools with square drive
4) 9891089217 Cutter for wooden sleeper
5) 9891089220 Countersink for wooden sleeper, sleeper dowel 15
6) 9891089219 Screw tap for wooden sleeper dowel 15
7) 9891089227 Dowel turn-in mandrel for wooden sleeper dowel 15
8) 9891085161 Turn-in tool no. 5 (spiral dowel no. 5)
9) 8003083003 Adapter with chuck for sleeper drill bit (wood, 96.01)
10) 8003083006 Depth stop



Wooden sleeper renovation, sleeper dowel 15/ spiral dowel 5

Concrete sleeper renovation

11) 8910839010 Taper sleeve MK3
12) 9002501512 Drill bit Ø 29 mm, MK3
13) 8003083002 Tool holder for tools with square drive
14) 8333550110 Cutter RD29 for concrete sleeper, sleeper dowels 9+13
15) 9891089288 Left-hand extractor for concrete sleeper, sleeper dowels 9+13
16) 9891089225 Dowel extraction mandrel for concrete sleeper, sleeper dowels 9+13
17) 9891089226 Dowel turn-in mandrel for concrete sleeper, sleeper dowels 9+13
17a) 8910839204 Drill bit Ø 38 mm

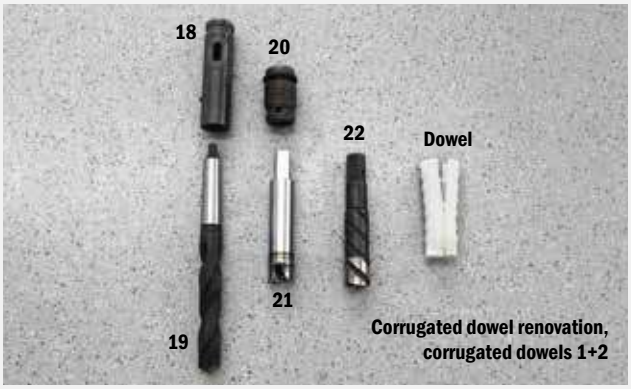


Concrete sleeper renovation, sleeper dowels 9/13

We offer suitable adapters for the use of the accessories in combination with our impact wrenches ROMPACT 30.09, 30.10 & 30.20 E³.

Corrugated dowel renovation

18) 8910839010 Taper sleeve MK3
8910839015 Taper sleeve MK4
8003062052 Socket, hex AF 39 SRAUG
19) 9002501519 Drill bit Ø 38 mm, MK4
9002501548 Drill bit Ø 27 mm, MK3
9002501513 Drill bit Ø 30 mm, MK3
20) 8003083002 Tool holder for tools with square drive
21) 8333550120 Cutter RD38 for wooden sleeper or corrugated dowels 1+2
22) 9891089218 Left-hand extractor for wooden sleeper, corrugated dowels 1+2



Corrugated dowel renovation, corrugated dowels 1+2

Fish bolt spanner

8003182001 31.82 to release and fasten fishplate bolts

5010820007 Monorail trolley

8003082012 Outrigger, gauge 1435 mm incl. counter weight and rail fixing
8330750003 Transverse bogie gauge 1435 mm
Other gauges on request.

7738960001 Transport frame (stackable), universally adjustable for ROBEL power wrenches of type 30.73, 30.82RKS, 30.82HKS (E³), 30.83, 34.01

900100065 Hood-shaped cover with eyes for maximum weather protection

8003062052 Socket, hex AF 39 SRAUG with one output; without socket


Fish bolt spanner ROBOLT 31.82

ROBOLT 31.82 Fish Bolt Spanner

To release and fasten fishplate bolts.

- In combination with the 30.82HKS, 30.82HKS E³, 30.82RKS, 30.83
- Weight from 8.8 kg


ROBOLT 31.82 – 8003182001

ACCESSORIES

Sockets

8003062062	Hex AF 38
8003062052	Hex AF 39
8003062058	Hex AF 41
8003062065	Hex AF 42

Distances

8362700002	Distance, required for transverse bogies with cant (40 mm)
8362700001	Distance 140 mm, required for transverse bogies with cant (40 mm)

ROTORQUE 86.12+ Torque Meter

To set and check the torque of power wrenches.

By layering the disc springs, different wrenching torques can be simulated, e.g. track old/new, W-type track rail clip 14 old/new, etc.

- Fastening on track with clamping screw
- Independent of clearance gauge
- Measuring range 150 to 450 Nm
- 700 x 305 x 250 mm
- Weight from 24.8 kg


ROTORQUE+ – 86.12+ 8869900006

ROCLIP 34.01 Clipping Machine

FAST AND PRECISE CLIPPING. FC, FCX AND FE CLIPS.



ROCLIP 34.01 with Sleeper Lifting Unit – 8259900030
Transverse bogie – 8259900008

For inserting and extracting Fastclip clip fasteners in new construction and maintenance.



ROCLIP 34.01 without Sleeper Lifting Unit – 8259900029

THE ADVANTAGES. YOUR BENEFITS.

Wide range of applications
- Various versions for Fastclips of types FC, FE and FCx
- Removes even heavily corrodes clips

High throughput
- Fast changeover without tools between insertion and extraction mode
- Excellent ergonomics due to optimised centre of gravity and height-adjustable handles
- Optimum view of work area due to LED lighting

Easy operation
- Intuitive start of clipping using the push-button on the handle
- Short set-up time due to simple adjustments

Optimum results
- Protection of insulators due to precise adjustment of the patented clipping tool
- No follow-on costs from replacement of damaged insulators
- Easy and fast lifting of low-lying sleepers (option)



Detail of sleeper lifting equipment



Detail of clipping module – 8259900030

SPECIFICATION

Drive	4-stroke petrol engine	4-stroke petrol engine
Type	Honda GX200	Honda GX200
Output	4.3 kW	4.3 kW
Fastclip type	FC	FC/FCx/FE
Machine weight		
Without sleeper lifting unit	from 134 kg	from 163 kg
With sleeper lifting unit	from 155 kg	from 170 kg
Weight, transverse bogie	from 46 kg	from 46 kg
Dimensions (L x W x H)	1950 x 620 x 1010 mm	1950 x 650 x 1010 mm

Other track gauges and engine variants on request.

Clipping tools:

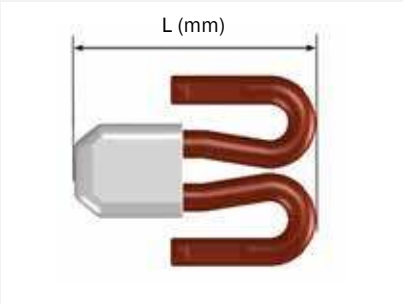
Clip extraction
8254220009V Extraction tool, smooth
8254220019V Extraction tool with stop
8254220013V Extraction tool without stop


8254220009V


8254220019V


8254220013V

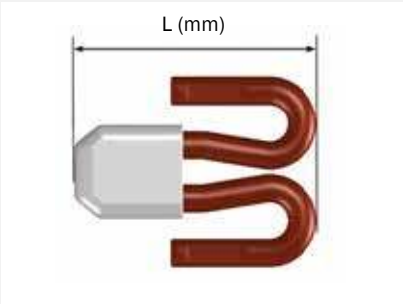
Clip insertion
For machine without sleeper lifting unit
8254220007V Insertion tool for clip length (L) 125 mm
8254220008V Insertion tool for clip length (L) 135 mm




8254220007V


825422008V

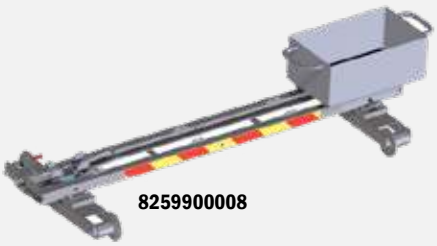
Clip insertion
For machine with sleeper lifting unit
8254220011V for clip length (L) 135 mm
8254220012V for clip length (L) 125 mm




8254220011V


8254220012V

Other ACCESSORIES
8259900008 Transverse bogie with toolbox 1435 mm (other versions on request)
8259910015 Additional carrying handles (only for FC/FCx/FE machine)
9000100065 Hood-shaped cover


8259900008


8259910015



Hood-shaped cover

ROCLIP 34.02 Modular Clipping Machine



ROCLIP 34.02
Base frame – 8259900068
E-clip head – 8254200031
BLDC drive unit – 8759901001
Transverse bogie – 8259900008
2300 Wh battery – 7839900001

For inserting and extracting clip fasteners in new construction and maintenance

THE ADVANTAGES. YOUR BENEFITS.

High work quality and optimum results

- Modular design: consisting of base frame, clip head, drive unit and transverse bogie
- Clip heads available for e-clips and Fastclips
- Fastclip head with sleeper lifting unit
- Choice between two different drive units
- Various tools for e-clips, PR clips, MkV clip & Fastclips
- Sleepers with hollow can be clipped
- High throughput
- Powerful
- Quick tool change between inserting and extracting
- Assembly and disassembly of the individual modules without the use of any tools
- Protection of insulators due to precise adjustment
- Simple logistcs

User-friendly and safe

- Intuitive start of clipping using the push-button on the handle
- Excellent ergonomics due to optimised centre of gravity
- Optimum view of work area due to LED lighting
- Height-adjustable and foldable guide handles
- Optional: Transverse bogie with deadman's brake
- Two-hand operation protects the operator
- Mesh guard on e-clip head

SPECIFICATION Base frame

Weight	from 53 kg
Dimension in transport position (L x W x H)	1350 x 620 x 1080 mm
Dimension in working position (L x W x H)	1820 x 620 x 630 mm



Base frame

SPECIFICATION Clip head

	E-clip head	FC-clip head
Clip type	e-Clip, PR-Clip, MkV Clip	FC-Clip
Insertion force	34.4 kN	44.2 kN
Extraction force	34.4 kN	33.2 kN
Max. operating pressure	230 bar	230 bar
Sleeper lifting unit	no*	yes
Sleeper hollow	up to 20 mm possible	up to 50 mm possible
Weight	from 92.2 kg	from 62.1 kg
Weight incl. clipping tool	from 103.7 kg	from 70.4 kg
Dimension (L x W x H)	720 x 480 x 440 mm	430 x 650 x 680 mm

*e-clip head does not require any additional sleeper lifting unit

ACCESSORIES

e-clip tools
8254220028 Insertion tool for concrete sleepers
8254220029 Extraction tool for concrete sleepers
8254220034 Insertion tool for wooden sleeper
8254220035 Extraction tool for wooden sleeper

PR-clip tools
8254220030 Insertion tool
8254220031 Extraction tool

MKV-clip tools
8254220032 Insertion tool
8254220033 Extraction tool

FC-clip tools
8254220012V Insertion tool for clip length 125 mm
8254220011V Insertion tool for clip length 135 mm
8254220013V Extraction tool without stop
8254220019V Extraction tool with stop
8254220009V Extraction tool, smooth



e-clip head



FC-clip head

SPECIFICATION Drive unit

	BLDC drive unit	Honda GX270 drive unit
Drive	BLDC electric motor	4-stroke petrol engine
Type		Honda GX270
Output	6.6 kW	6.3 kW
Max. operating pressure	230 bar	230 bar
Hydraulic oil filter	yes	yes
Weight (excl. 2300 Wh battery)	from 59 kg	from 83,4 kg
Dimension (L x W x H)	660 x 480 x 710 mm	870 x 650 x 660 mm

ACCESSORIES

For BLDC drive unit
7839900001 Battery 2300 Wh
7879900201 Charger
5039900003 Power supply
9000208017 Battery box for battery 2300 Wh



BLDC drive unit E³



Honda GX270 drive unit

SPECIFICATION Transverse bogie

Weight	from 48 kg
Dimension (L x W x H)	1950 x 750 x 260 mm
Track gauge	1435 mm

Other gauges available on request.
Optional: Transverse bogie with deadman's brake available



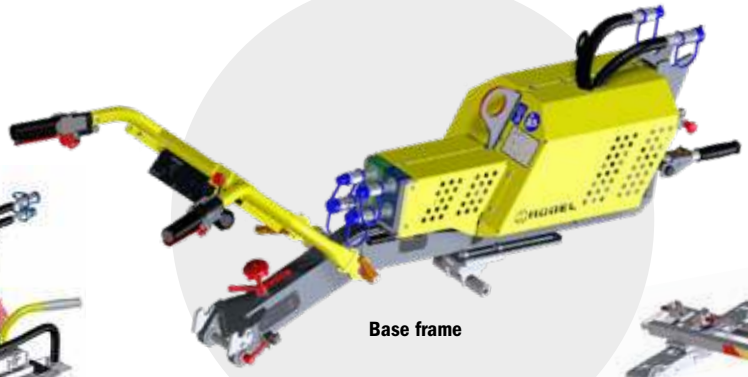
Transverse bogie



BLDC drive unit E³



Honda GX270 drive unit



Base frame



e-clip head



Transverse bogie



FC-clip head

ROCLIP 34.90 Clipping Device

Sleeper lifting unit
For manual lifting of sleepers with FC clips

SPECIFICATION	
Length	1000 mm
Weight	from 8 kg


ROCLIP 34.90 – 9825360001

Extraction tool
For manual extraction of FC, FCx and FE clips

SPECIFICATION	
Length	1000 mm
Weight	from 8 kg


ROCLIP 34.90 – 9825360005

Insertion tool
For manual insertion of FC, FCx and FE clips

SPECIFICATION	
Length	1100 mm
Weight	from 10 kg


ROCLIP 34.90 – 9825360006

Insertion and extraction tool
For manual insertion and extraction of e-clips

SPECIFICATION	
Length	1100 mm
Weight	from 10 kg


ROCLIP 34.90 – 9803490100

ROTOOL 35.01 Fish Bolt Spanner

Ratchet spanner for loosening and tightening fishplate bolts by rotating left and right with 2 lever arms.


ROTOOL 35.01 – 8003501001

SPECIFICATION

Length	730 mm
Weight	from 6.3 kg

ACCESSORIES

Spanner inserts
(2 off are required)

8910440135	AF 32
8910440137	AF 33
8910440139	AF 34
8910440145	AF 36
8910440149	AF 38
8910440151	AF 39
989104153	AF 41
8910440157	AF 42
8910440163	AF 45
8910440165	AF 46

Other spanner inserts available on request.


Insert AF 39

ROTOOL 35.02 Fish Bolt Spanner

For use with fishplates and for general wrenching work.

Light-weight, robust & flexible
- Ratchet spanner in partial aluminium design
- Sturdy coarse ratchet
- Inserts reversible for left-hand/right-hand rotation
- Locking with ball stop
- Socket adapter 1"


ROTOOL 35.02 – 9803502001

SPECIFICATION

Length	730 mm
Weight from	6.3 kg

ACCESSORIES

Sockets
(2 off are recommended)

9002501704	AF 36
9002501703	AF 38
9803502002	AF 39
9002501694	AF 41


Socket AF 36

ROTOOL 36.02/04 Socket Wrench

Wrenching manually with ease.

Socket wrench with T-handle for selective wrenching on the track.

Wrenching manually with ease.

Socket wrench with T-handle for selective wrenching on the track.


ROTOOL 36.04 – 8953604001

SPECIFICATION	36.02	36.04
Dimensions (H x W)	980 x 750 mm	980 x 750 mm
Weight	from 6.3 kg	from 6.2 kg

ROTOOL 37.04 Open-End Wrench

ROTOOL single 37.04

Versions
9800370005 Single open-end wrench AF 39, from 2.7 kg
Others available on request.

ROTOOL double 37.04

Versions
9800370001 Double open-end wrench AF 38/40, from 2.7 kg
9800370006 Double open-end wrench AF 39/41, from 2.7 kg
9891043944 Double open-end wrench AF 39/44, from 2.7 kg
9800370002 Double open-end wrench AF 40/42, from 2.7 kg
Others available on request.


ROTOOL double – 9800370006
ROTOOL single – 9800370005

ROTOOL 38.01 Support Lever

Installation aid which prevents plastic dowels from being turned out of their installation positions while the sleeper bolt is removed for the required maintenance work.

Versions:
8388220001 for 60E1
8388230001 for 49E1/54E3


ROTOOL 38.01 – 8388230001

SPECIFICATION	for 60E1	for 49E1/54E3
Length	from 1500 mm	from 1500 mm
Width	200 mm	170 mm
Height	90 mm	90 mm
Rail profile	for 60E1	for 49E1/54E3
Weight	from 5.2 kg	from 5.2 kg

One-piece sockets

In standard dimensions

For ROBEL power wrenches ROWRENCH 30.76, 30.82HKS, 30.82HKS E³, 30.82RKS (with spherical wrenching spindle adapter or spherical extension)

Hexagonal, one-piece, e.g. K-type track, with nut ejector

8003082039	Hexagonal AF 35 with ejector
8003082075	Hexagonal AF 36 with ejector
8003082038	Hexagonal AF 38 with ejector
8003082036	Hexagonal AF 39 with ejector

Rectangular, one-piece, e. g. W-type track, without ejector

9871033072	Rectangular 24.5 x 20.5
9871032618	Rectangular 26 x 18
9871033070	Rectangular 28 x 21
9871033020	Rectangular 30 x 20
9871033022	Rectangular 30 x 22

Square, one-piece, without ejector

9871033080	Square 19 x 19
9871033200	Square 21 x 21
9871032200	Square 22 x 22
9871032123	Square 23 x 23
9871032400	Square 24 x 24
9871032540	Square 25.4 x 25.4 (1")
9871032427	Square 27 x 27

Special sockets

9871033802	AF 39/21 x 28
8710302118	Square 1 1/8” oct
8328950130	Clip bolt removal socket
8323580240	Socket DHS 25/35

For fish bolt spanner ROBOLT 31.82
Wrenching part adapter hex 40, complete with ejector, pressure spring, O-ring and cylindrical pin

8003062016	Hexagonal AF 36 SRAUG
8003062062	Hexagonal AF 38 SRAUG
8003062052	Hexagonal AF 39 SRAUG
8003062060	Hexagonal AF 40 SRAUG
8003062058	Hexagonal AF 41 SRAUG
8003062065	Hexagonal AF 42 SRAUG
8003062072	Hexagonal AF 46 SRAUG
8003062073	Octagonal 1 11/16" oct.


Hexagonal AF – 39 8003082036


Hexagonal AF 39 SRAUG – 8003062052


Rectangular 28 x 21 – 9871033070


Square 19 x 19 – 9871033080

Split and articulated sockets

Complete with attachment head, wrenching part, pressure spring, O-ring and cylindrical pin

For ROBEL power wrenches ROWRENCH 30.73PSM, 30.76, 30.82HKS, 30.82HKS E³, 30.82RKS, 30.83 (with straight wrenching spindle seat or straight extension)

Hexagonal, articulated, with nut ejector

8003062054	Hexagonal AF 30
8003062064	Hexagonal AF 32
8003062014	Hexagonal AF 33
8003062033	Hexagonal AF 34
9891368034	Hexagonal AF 35
8003062055	Hexagonal AF 36
8003062049	Hexagonal AF 38
8003062001	Hexagonal AF 39
8003062051	Hexagonal AF 40
8003062017	Hexagonal AF 41
8003062039	Hexagonal AF 42
8003062008	Hexagonal AF 44
8003062056	Hexagonal AF 46

Rectangular, articulated, without ejector

8003062047	Rectangular 24 x 20
8003062070	Rectangular 24.5 x 20.5
8003062059	Rectangular 26 x 18
8003062005	Rectangular 28 X 21
8003062046	Rectangular 30 x 20
8003062048	Rectangular 30 x 22

Square, articulated, without ejector

8003062043	Square 18 x 18
8003062004	Square 19 x 19
8003062061	Square 22 x 22
8003062040	Square 23 x 23
8003062044	Square 24 x 24
8003062063	Square 32 x 32

Special Sockets

8003082081	Socket for „Lindauerüberweg“, AF 39
8003062100	Combined socket AF 39 & rect. 21 x 28


Hexagonal AF 39 8003062001


Rectangular 28 X 21 8003062005

LIFTING LOADING TRANSPORTING



ROALIGN 47.230

Hydraulic Track Lifting Machine with Slewing Device

ROLIFT 40.05 Rail Lifting Device

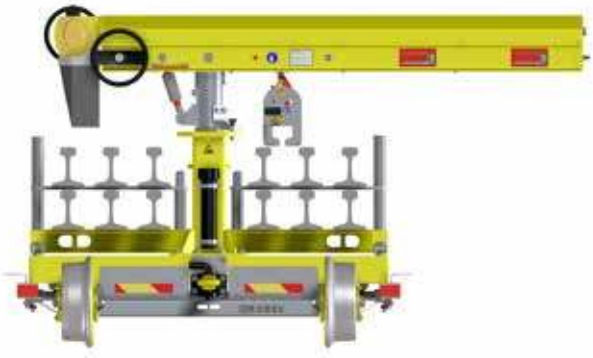
For lifting and fixing rails

- To be used for replacing rail pads and grooved base plates
- For all types of track used
- For rail profiles 49E1, 54E3 and 60E1, others available on request
- Further special track types on request
- Hand lever equipped with beyond-dead-centre safety device
- Additional locking hook


ROLIFT 40.05 – 8469900003

SPECIFICATION	
Max. carrying capacity	0.75 t
Lifting height	4 different heights adjustable
	2 heights for grooved base plate
	support, 2 heights for sleeper support
Dimensions (L x W x H)	1084 x 70 x 406 mm
Weight	from 14.6 kg

ROLOAD 40.51 Rail Loading and Transporting Unit


Loading diagram with 12 rails max. on 2 levels


Combination of 3 rail loading and transporting units

Safe transport on four-wheeled chassis with rail loader and trolley

- Transport of rails, through the combination of up to four units by means of draw bars
- Travels through curve radii of up to 50 m
- Maximum gradient for parking with parking brake 8 ‰
- Parking brake acts on all four wheels
- Pivot plate with push-fit uprights, swivelling range approx. +/- 16 degrees
- Can be used with trailer couplings and connecting rods on both sides

SPECIFICATION

Max. permitted carrying capacity	10 t
Max. carrying capacity per travelling crab/cable winch	for loading facility up to 960 mm from track centre up to 1000 kg
	for loading facility up to 1440 mm from track centre up to 500 kg
Max. vertical travel of cable winch	1000 mm
Wheel base	1067 mm
Running wheel diameter	340 mm
Max. permitted speed	20 km/h
Max. load capacities	12 rails up to max. 65 kg/m on two levels
Max. rail lengths	Combination of 2 rail loading and transporting units: max. 14 m long
	Combination of 3 rail loading and transporting units: max. 20 m long
	Combination of 4 rail loading and transporting units: max. 26 m long
Dimensions (L x W x H)	
Working position	1927 x 2513 x 1470 mm
Transport position	2600 x 1754 x 1470 mm
Weight	from 1600 kg
Gauge	1067 mm
Other track gauges on request	

ACCESSORIES

Connecting rods
8820032000 Connecting distance 5700 mm
8820032100 Connecting distance 4565 mm

Other lengths on request

Tow Bars
for connecting the rail loading and transporting unit to the traction vehicle

5011850001 straight Rockinger – Rockinger, 1500 mm length
4511850180 cropped, separable standard draw hook – Rockinger, 5294 mm length


4511850180
Tow bar cropped and separable for standard draw hook

ROCARRY 42.02 Rail Carrying Tongs

For carrying and lifting rails

SPECIFICATION

Rail head width	up to 80 mm
Rail head height	up to 70 mm
Dimensions (L x W x H)	1050 x 70 x 400 mm
Weight	from 7.5 kg


ROCARRY 42.02 - 8004202001

ROCARRY 42.10 Rail Carrying Roller Tongs

For lifting and loading/unloading rails

- Self-clamping
- With locking device to prevent the tongs from releasing autonomously


ROCARRY 42.10 – 8428420009

SPECIFICATION

Max. carrying capacity	0.5 t	1.5 t	1.5 t	3 t
Suitable for	small flat bottom rails	flat bottom rails	conductor rails	flat bottom rails
Dimensions (L x W x H)	200 x 170 x 230 mm	270 x 165 x 300 mm	270 x 165 x 290 mm	270 x 220 x 300 mm
Weight	from 6.5 kg	from 16 kg	from 14 kg	from 24.7 kg
Rollers	4	4	4	6

ROCARRY 42.11 Rail Carrying Tongs

For lifting and transporting rails

- ROLOAD 40.44 and 40.51 rail loader
- With locking device to prevent the tongs from releasing autonomously


ROCARRY 42.11 – 8004211001

SPECIFICATION

Max. carrying capacity	1.5 t	3 t
Suitable for	flat bottom rails	
Dimensions (L x W x H)	100 x 165 x 300 mm	
Weight	from 5.4 kg	

ROCARRY 42.22 Rail Carrying Tongs with Suspension Eye

For lifting and transporting rails

- With suspension eye (crane hook securing) and locking device
- Sturdy design with 3 lifting claws
- Opens automatically when touching down on rail head
- Different versions available for different rail types.
  Get in touch with your ROBEL contact


ROCARRY 42.22 – 8428410009

SPECIFICATION

Max. carrying capacity	3 t
Dimensions (L x W x H)	120 x 130 x 400 mm
Weight	from 10.9 kg

ROCARRY 42.25 Rail Carrying Roller Tongs

For lifting and lateral movement of rails using a rail-road excavator.

- Highly robust design
- Easy handling
- Self-clamping
- With suspension eye


ROCARRY 42.25 – 8422500001

SPECIFICATION

Max. carrying capacity	6 t
Suitable for	flat bottom rails
Dimensions (L x W x H)	340 x 360 x 330 mm
Weight	43 kg
Rollers	4

ROMOVE 43.02 Rail Mover

For lifting and moving rails longitudinally and laterally.

- Consists of 2 supports, 1 cross beam, 1 travelling crab and 1 roller carrying tongs
- Sturdy support with holes for adjusting height of cross beam by locking pin, with folding carrying handles, wooden feet and running rollers
- Easy to dismantle for transport to and from the work site
- Recommended distance between devices approx. 10 m
- Version 176 (rack hoist): with parking brake
- Version 181 (chain hoist): With deadman‘s brake
- Chain hoist adjustable with crank or cordless screwdriver (cordless screwdriver not included)


ROMOVE 43.02 – 8379900007

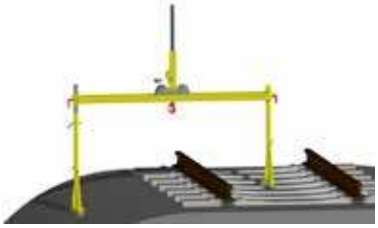
SPECIFICATION

	with rack	with chain hoist
Max. carrying capacity	1.5 t	990 kg
Vertical travel	800 mm	800 mm
Running distance of travelling crab	1900 mm	1790 mm
Support width	2240 mm	2065 mm
Max. head width of rail	75 mm	86 mm
Max. head height of rail	45 mm	45 mm
Dimension (L x W x H)		
Travelling crab	1150 x 360 x 310 mm	475 x 350 x 165 mm
Roller carrying tongs	305 x 270 x 165 mm	200 x 219 x 305 mm
Cross beam	2450 x 210 x 130 mm	2180 x 295 x 230 mm
Supports	1180 x 700 x 130 mm	1680 x 910 x 155 mm
Weight		
Travelling crab	from 24 kg	from 13 kg
Roller carrying tongs	from 16 kg	from 7.9 kg
Cross beam	from 45 kg	from 30 kg
Supports (incl. 1 carrying handlle)	from 16 kg	from 14 kg
Total weight	from 117 kg	from 79 kg

ACCESSORIES

For version with rack:
8379910001 Extension, 325 mm, for embankments

For version with chain hoist:
8378930003 Road running gear for support
8378930004 Extension for support



ROLIFT 43.25 Hydraulic Rail Lifting Device



ROLIFT 43.25 (Hydraulic Rail Lifting Device) – 8739900601
Drive unit GX200 – 8759901201

For lifting flat bottom rails e.g to replace rail pads and ribbed plates.

THE ADVANTAGES. YOUR BENEFITS.

High safety for the operator

- Modular system consisting of rail lifting device and drive unit
- Choice of drive unit with ROBEL battery or combustion engine
- Easy to use
- High output
- With deadman‘s brake
- Hydraulic & electrical safety device
  – Rail clamps cannot be opened under load
  – Off-tracking possible via hydraulic emergency pump
- No collision in the clearance gauge and in the switch
- LED light for extensive illumination of the working area

SPECIFICATION Track Lifting Device

Cylinder lift	approx. 400 mm
Lifting capacity	approx. 6 t
Track gauge	1435 mm
Max. operating pressure	160 bar
Dimensions (L x W x H)	
Transport position	1200 x 1900 x 1050 mm
Working position	700 x 1900 x 1250 mm
Weight	approx. 195 kg

ACCESSORIES

8738930002	Chocks
8738930003	Small toolbox
8738930004	Large toolbox
8738930005	Handling aid

SPECIFICATION Drive Unit

Drive	4-stroke petrol engine	BLDC electric motor
Type	Honda GX200	
Output	4.3 kW	6.6 kW
Max. operating pressure	approx. 200 bar	approx. 200 bar
Dimensions (L x W x H)	820 x 520 x 570 mm	700 x 650 x 590 mm
Weight	approx. 65 kg	approx. 61 kg (excl. battery)
Operating cycles per battery charge	-	approx. 150

ACCESSORIES

7839900001 Battery 2300 Wh
7879900201 Charger for battery 2300 Wh
9000208017 Battery box for battery 2300 Wh



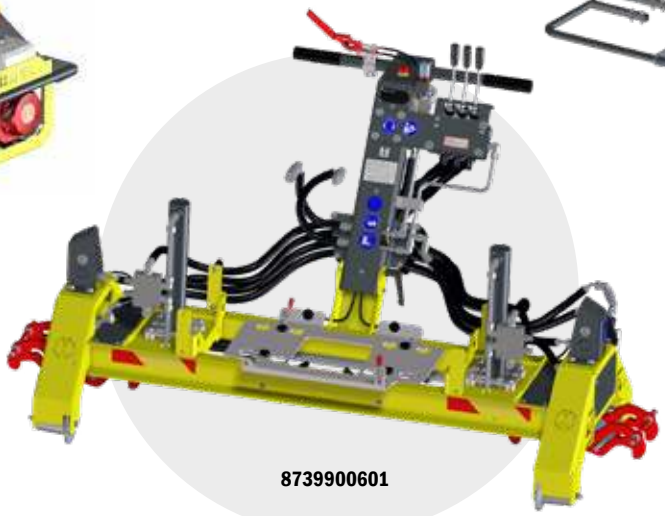
8759901101



8759901201



8738930005



8739900601



8738930002



8738930003



8738930004

MOVING RAILS QUICKLY AND SAFELY.


ROTHREAD 43.32 - 8439900002

For continuous gradual repositioning of rails to the desired track gauge.

THE ADVANTAGES. YOUR BENEFITS.

Cost effectiveness
- High performance, especially with long rails
- Automatic adjustment to the track gauge during travel
- Ready for use straight away
  - For travel to and from the work site, the carrier frame is slewed into the permitted wagon profile by means of the rotatable travelling gear
  - Auxiliary rubber wheels for turning as well as ontracking and off-tracking at level crossings
- High transiting speed

Wide range of use
- Hydraulic cylinders can be mounted on the inside or outside, enabling work on track gauges 830 mm to 3530 mm
- With the use of a pressure booster various hydraulically operated tools can be utilised (no need for hydraulic power pack).

User-friendly & safe
- High occupational safety due to engine stop and rail tongs protected from turning or tilting
- Roof protects from adverse weather
- LED working lights for good visibility
- Comfortable working in winter
- Safe running behaviour due to double wheel flanges

SPECIFICATION

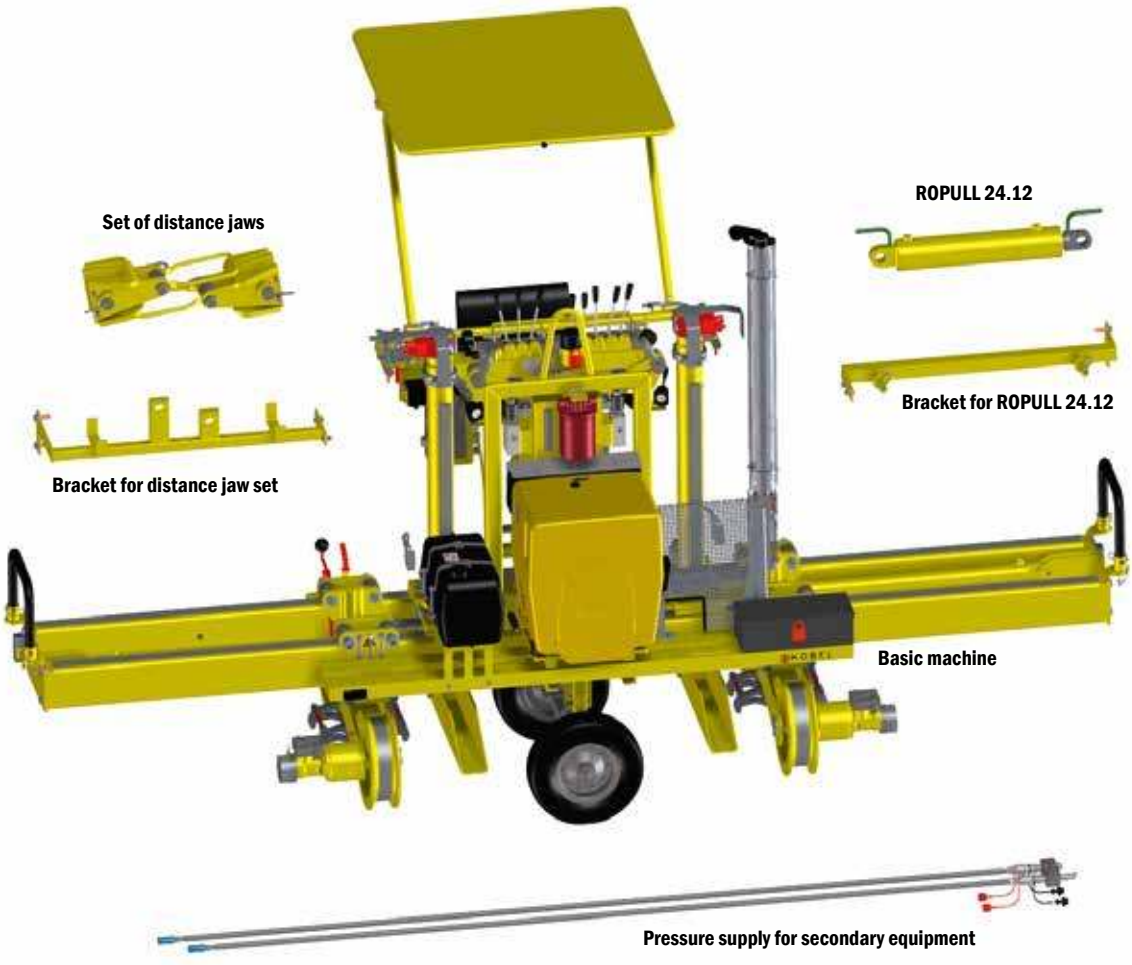
Drive	air-cooled 4-stroke diesel engine
Type	HATZ 1 D81 “Silent Pac”, specially soundproofed design
Output	7.2 kW
Hydraulic system operating pressure	50/160 bar
Max. lifting capacity	6 t
Max. vertical travel	800 mm
Outward expansion force	30 kN
Inward expansion force	15 kN
Track gauge	830 -– 3530 mm
Wheel base	800 mm
Wheel diameter double wheel flanges	300 mm
Max. travelling speed	13 km/h
Max. negotiable gradient	25 ‰
Dimensions (L x W x H)	1740 x 4000 x 2015 mm
Weight without auxiliary equipment	from 1.6 t

ACCESSORIES

9891041960	Hood-shaped cover
8437790001	Pressure supply for secondary equipment, e.g. for 24.12 ROPULL Rail Pulling and Pushing Device
8431920012	Brackets for ROPULL 24.12 and set of distance jaws
8002412019	24.12 ROPULL Rail Pulling and Pushing Device
8002412013	Set of distance jaws UIC 60 for ROPULL 24.12

Other rail profiles available on request





ROTOOL 44.17 Wooden Sleeper Carrying Tongs

For lifting sleepers manually.

Heavy-duty DB version made of steel.


ROTOOL 44.17 – 8004417001

SPECIFICATION	
Sleeper width up to	270 mm
Sleeper width up to	165 mm
Dimensions (L x W x H)	1000 x 60 x 450 mm
Weight	from 5.5 kg

ROTOOL 44.18 Sleeper Puller

For moving sleepers quickly.

- Ergonomic moving of sleepers
- For sleepers with all common ribbed plates
- Sleeper puller fits between sleeper screws
- Solid, robust design



SPECIFICATION	
Dimensions (L x W x H)	905 x 42 x 400
Weight	3.6 kg

ROTOOL 44.20 Concrete Sleeper Carrying Tongs

For lifting sleepers manually.

Heavy-duty DB version made of steel.


ROTOOL 44.20 – 8004420001

SPECIFICATION	
Width up to	280 mm
Height up to	205 mm
Dimensions (L x W x H)	1050 x 100 x 630 mm
Weight	from 10 kg

ROJACK 46.43/46.45/46.47/46.50 Track Jack with Safety Crank Handle

For lifting and lowering loads such as track panels or rails.

- Solid, robust design with large reinforced base plate
- Safety crank handle with load pressure brake and folding handle


ROJACK 46.43/45/47/50 – 8004643001

SPECIFICATION	46.43	46.45	46.47	46.50
Max. lifting capacity	3 t	5 t	7.5 t	10 t
Max. lifting height	350 mm	300 mm	300 mm	300 mm
Excavation height	65 mm	65 mm	65 mm	80 mm
Dimensions (L x W x H)	290 x 220 x 715 mm	290 x 230 x 720 mm	290 x 230 x 720 mm	335 x 280 x 790 mm
Weight	from 24.5 kg	from 29.5 kg	from 34 kg	from 46 kg

ROJACK 47.14 Mechanical Track Jack

For continuously adjustable and precise lifting of rails.


ROJACK 47.14 – 8004714001
T-handle socket wrench – 8004714002


ROJACK 47.14 – 8004714001
Crank wrench – 8917513301

SPECIFICATION	
Max. lifting capacity	7.5 t
Max. lifting height	150 mm
Excavation height	70 mm
Dimensions (L x W x H) without lever	520 x 200 x 255 mm
Weight	from 15.5 kg

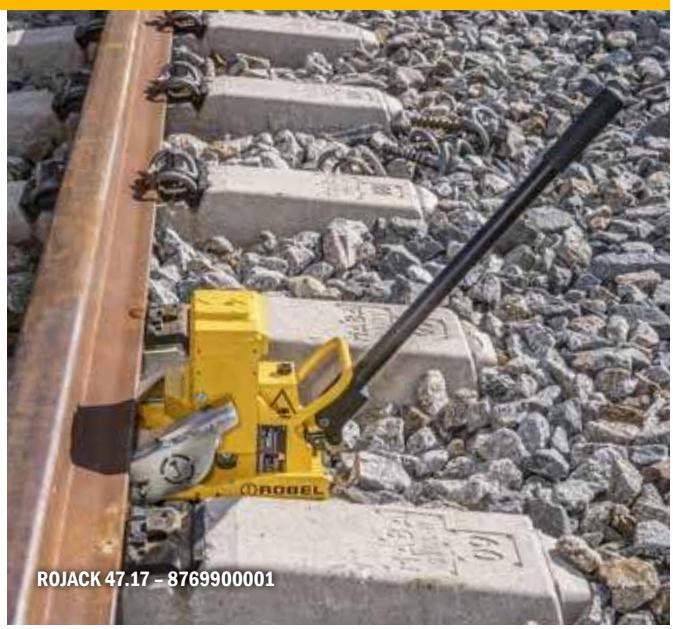
ACCESSORIES

8917513301	Crank wrench
8004714002	T-handle socket wrench
8917513203	Adapter

ROJACK 47.17 Hydraulic Track Jack

For continuously adjustable and precise lifting of rails and switches.

- Lightweight, robust and very compact design
- Easy operation using detachable hand lever and tool-free removable swivel plate
- Lifting of rail with lifting nose, at structured lifting area at the head or with swivel plate with possibility of fine adjustment (vers. 08)
- Quick-action lowering mechanism
- With pressure relief valve that prevents damage to the track jack in case of overload
- Lowering speed infinitely variable


ROJACK 47.17 – 8769900001

SPECIFICATION	Version 08	Version 09
Max. lifting capacity	6.5 t	6.5 t
Max. lifting height	80 mm	80 mm
Excavation height	74 mm	45 mm
Dimensions (L x W x H) without lever	370 x 234 x 181 mm	310 x 182 x 181 mm
Lever	500 mm	500 mm
Weight	from 20 kg	from 17 kg
With fine adjustment	yes	no

ROALIGN 47.230 Hydraulic Track Lifting Machine with Slewing Device

SAFE AND POWERFUL LIFTING AND LINING.



ROALIGN 47.230 - 8479900025 – Working mode

For lifting and lining tracks or entire track panels with radio remote control.

THE ADVANTAGES. YOUR BENEFITS.

Perfect work quality & efficiency
- High lifting capacity and slewing force
- High lifting height
- Millimetre-precise adjustment of the lifting height through proportional control
- Transfer travel possible at up to 15 km/h. In working mode with radio remote control up to 5 km/h possible.
- Fixture for laser measuring devices (laser measuring device is not included in delivery)
- Great time saving due to checking and possible adjustment of the track position during the tamping process via laser
- High flexibility due to exchangeable rail clamps for flat bottom and grooved rails (included in delivery)
- Remote control connected to machine by radio or by cable
- USB charging possibility

Health & safety
- Radio remote control enables operation outside the danger zone
- Permanent overview of the driving area during the transfer travel
- Complete visibility of the working units during the working mode
- LED illumination of the complete working area
- Audible and visual warning signals
- Dead man‘s control for transfer travel and working mode
- Signal lighting (red/white) available
- Sensor monitoring of the cylinder positions
- Emergency operation via hydraulic hand pump possible, tow bar available
- Built according to EN 15955
- Exhaust fumes routing downwards (track bed)

Applications
- For lifting and lining ballasted and non-ballasted track panels (when tamping the tracks).
- For lifting rails, for example to replace rail pads
- For lifting work in certain switch areas

SPECIFICATION	Version 35
Engine	one-cylinder 4-stroke diesel engine HATZ 1D81-C
	special sound-insulated design „Silent Pac“
Gauge	1435 mm
Center distance	1435 mm
Performance	
Lifting capacity	200 kN
Lifting height	continuously adjustable to 750 mm
Slewing force	42.5 kN
Slewing range	continuously adjustable to 260 mm
Travel speed	
Travel transfer	up to 15 km/h
Working mode (via remote control)	up to 5 km/h
Dimensions (L x W x H)	2000 x 2900 x 1700 mm
Weight	from 2.4 t

ACCESSOIRES

9000100064 Hood-shaped cover



ROALIGN 47.230 – Transfer travel



Radio remote control

ROLLY 50.17 Ergonomics Support Trolley



ROLLY 50.17 – 5179900201
ROBORE 11.20 E³ – 7859900003
ROBATTERY 71.01 (800 Wh) – 7806800004
Adapter for 11.12/11.20 E³ – 7858930200
Outrigger rod – 5170820340

Support trolley with lifting device for ROBORE sleeper drilling machines (ROBORE 11.12/11.20 E³) for ergonomic use drilling synthetic or wooden sleepers.

THE ADVANTAGES. YOUR BENEFITS.

- With deadman‘s brake as standard
- Operator is relieved during drilling and moving, increased productivity
- Divisible
- Holding device can be quickly and easily moved to the second rail
- Plastic rollers
- Work possible in the switch
- Gradiant up to 10° possible
- Bottle holder

SPECIFICATION

Dimensions (L x W x H)	950 x 1670 x 830 mm
Weight (excl. machine)	25 kg
Gauge	1000 mm – 1524 mm

ACCESSOIRES

5170820340	Outrigger rod for gauges from 1000 mm to 1435 mm
5170820350	Outrigger rod for gauges from 1495 mm to 1524 mm
7858930200	Adapter for ROBORE 11.12/11.20 E³
5171800201V	Storage tray
5171950201V	Counterweight for cant

ROLLY 51.12 Light Track Trolley

For transporting material, equipment and tools on rail tracks.

- Light, robust transport trolley with a platform of perforated aluminium plate with an anti-slip surface
- No accumulation of water or dirt
- Ball bearing synthetic running wheels/optionally sheet steel jacketed
- 2 or 4 carrying handles in different positions
- Parking brake acting on two wheels

Various track gauges and designs on request.



ROLLY 51.12 with synthetic track rollers – 9805112100



ROLLY 51.12 with guide and deadman's handle for push-fitting on both sides, sheet steel jacketed track rollers, 4 carrying handles, reflective strip – 8699900028



ROLLY 51.12 with folding bow-type handle, integrated deadman's brake, sheet steel jacketed track rollers – 9805112500

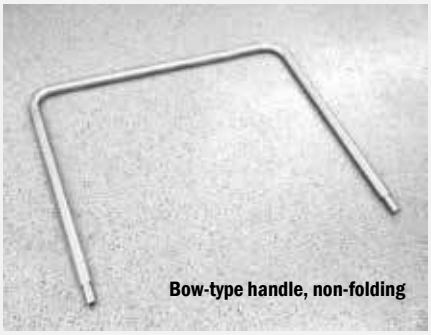
SPECIFICATION

Max. carrying capacity	700 kg
Dimensions (platform)	800 x 1620 mm (others on request)
Weight	from 26 kg

ACCESSORIES

Bow-type handle, non-folding (mounting kit)
Bow-type handle, folding, with integrated deadman's brake (mounting kit)
Parking brake brake rod to sleeper crib

Please get in touch with your ROBEL contact about the appropriate and required accessories for your track trolley



Bow-type handle, non-folding



Folding bow-type handle with integrated deadman's brake (mounting kit)

ROLLY 52.16 Transporting Device

THE ADVANTAGES. YOUR BENEFITS.

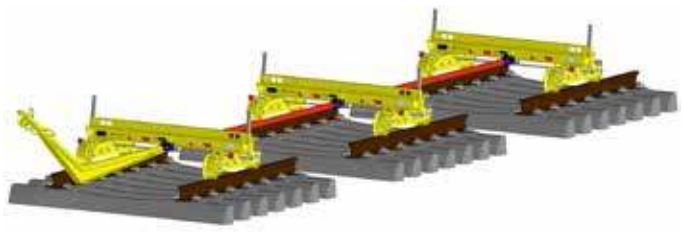
Safe transport on 4-wheel trolley
- Transports long-welded rails, track construction equipment, tools and track components

Options
- With or without parking brake acting on all 4 wheels
- With or without uprights
- Available for different track gauges

Version 5
- Combination of up to four devices using connecting roods



ROLLY 52.16 Version 3 with pivot plate, parking brake and uprights – 8005216011



ROLLY 52.16 Version 5 with pivot plate, parking brake and uprights – 8269900040
Drawbar – 4511850180
Connecting rods – 8820032000



ROLLY 52.16 Version 5 – Trailer coupling detail

SPECIFICATION	Version 2	Version 3	Version 5	Version 6
Basic design	without pivot plate	with pivot plate	with or without pivot plate	with or without pivot plate
Max. carrying capacity	15 t	15 t	15 t	15 t
Wheel base	480 mm	480 mm	= Track gauge	= Track gauge
Cross beam length	1900 mm	1900 mm	1900 mm	1900 mm
Running wheel diameter	250 mm	250 mm	250 mm	250 mm
Max. permitted speed	20 km/h	20 km/h	20 km/h	20 km/h
Dimensions (L x W x H)	780 x 1900 x 360 mm	780 x 1900 x 493 mm	1734 x 2056 x 390 mm	1734 x 1900 x 390 mm
Weight	from 187 kg	from 252 kg	from 382 kg	from 304 kg
Trailer coupling	without	without	incl. 2	without

ACCESSORIES

Connecting rods for Version 5

8820032000	Connecting rod 5700 mm
8820032100	Connecting rod 4565 mm
5011850001	Connecting rod 1500 mm

Other lengths on request.

4511850180	Cropped drawbar, separable, Standard draw hook – Rockinger
8261800005	Push-fit uprights for Versions 2, 5 and 6 without pivot plate



ROLLY 52.16 Version 5 without pivot plate, with parking brake – 8269900038

ROTOW 52.18 Towing Device



ROTOW 52.18 – 5289900001 (Illustration with on-tracking bridge)

For recovering and transporting rail vehicles with defective wheels or wheel sets.

THE ADVANTAGES. YOUR BENEFITS.

User-friendly, saving cost and time due to modular design
- Quick assembly and recovery thanks to modular design
- Low weight of individual components
- High carrying capacity due to sturdy diagonally interlocking frame (up to 300 kN)
- Lifting technology in cooperation with partner LUKAS Hydraulik GmbH
- Minimum subsequent costs (e.g. line closure)

SPECIFICATION

Gauge	1435 mm
Rail vehicles to be towed with running wheel diameter	630 – 1250 mm
Pivoting range of on-tracking bridge (pivot plate)	+/–5°
Wheel base	1300 mm
Running wheel (measuring circle) diamter	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. carrying capacity	30 t
Total weight from	630 kg
Modular design, individual component max.	from 71 kg
Dimensions (L x W x H)	1790 x 1955 x 332 mm

ACCESSORIES

8720180252 Mounting jack, carrying handles with hook-in claws for carrying or placing pre-assembled longitudinal beams onto the wheelsets of the towing device (one pair required per device)

8720180258 Adapter for on-tracking bridge, type „DUO – LUKAS"

5288930001 Transverse on-tracking device

On-tracking bridges on request.

ROLLY 52.30 Track Trolley

For transporting track construction equipment, tools and materials.

- Light metal construction
- Can be disassembled into 5 parts (without tools)
- Heaviest individual component from 34 kg
- Easy to assemble and disassemble
- Ball bearing aluminium running wheels
- Insulated from rail to rail
- Optional: Deadman's brake on 2 wheels

Available for different track gauges.


ROLLY 52.30 – 8005230002

SPECIFICATION

Max. carrying capacity	2 t
Dimensions (L x W x H)	1600 x 1890 x 890 mm
Weight without deadman's brake	from 108 kg
Weight with dead man's brake	from 121 kg

ROCOUPLE 58.03 Tow Bars

For coupling two rail vehicles (fitted with Rockinger coupling).

ROCOUPLE 58.03
- Length 1500 mm
- Max. permitted traction force = 100 kN
- Max. permitted thrust force = 100 kN
- △ h = ± 150 mm


ROCOUPLE 58.03 – 8829900005

ROCOUPLE 58.03
- Length 1450 mm
- Max. permitted traction force = 100 kN
- Max. permitted thrust force = 100 kN
- △ h = ± 75 mm


ROCOUPLE 58.03 – 8829900002

ROCOUPLE 58.62 Tow Bars

For coupling two rail vehicles (Rockinger coupling to standard draw hook).

ROCOUPLE 58.62
- Length 1450 mm
- Max. permitted traction force = 50 kN
- Max. permitted thrust force = 30 kN
- △ h = 325 mm, ± 75 mm


ROCOUPLE 58.62 – 8829900003

ROCOUPLE 58.62
- Length 1250 mm
- Max. permitted traction force = 50 kN
- Max. permitted thrust force = 30 kN
- △ h = ± 100 mm


ROCOUPLE 58.62 – 8829900004

ROMOVER 59.08 Wagon Mover

For moving wagons of up to 60 t total weight.

- To be used on level surfaces
- For flat bottom and grooved rails as well as on slab track
- Recommended wheel diameter 600 to 1000 mm
- Dimensions (L x W x H) 2500 x 190 x 140 mm
- Double cropped version for very short stroke available, wagon mover can be applied slanted
- Weight from 12 kg



ROMOVER 59.08 – 8005908001

ROCHOCK 59.09 Wheel Chock

Press-on wheel chock

THE ADVANTAGES. YOUR BENEFITS.

Simple design
- Makes coupling process easier by preventing long-coupled wagon formations from decoupling in departure tracks
- Press-on wheel chock will fall off the rail without affecting the clearance gauge thanks to its eccentrically arranged counter-weight

Versions

9805909002	Right-hand version press-on wheel chock
9805909003	Left-hand version press-on wheel chock



Press-on wheel chock

Wheel Chock L130

THE ADVANTAGES. YOUR BENEFITS.

Simple design
- Secures stationary wagons from unintended movement
- After bolting the chock to the rail head and removing the split pin, the key can be removed, securing the chock against unauthorised removal

Versions

9891053208	Wheel chock, both sides Can be locked with removable key. Total length 640 mm Tip length per wedge ramp 160 mm
9805909011	Wheel chock, both sides Can be locked with removable key. Total length 740 mm Tip length per wedge ramp 210 mm Particularly suited for inclines.



Wheel chock L130

Wheel Chock L134

THE ADVANTAGES. YOUR BENEFITS.

Simple design
- Was developed for securing stationary freight wagons
- Available for wheel diameters 810 – 1000 mm as well as 630 – 760 mm

Versions
9805909001 Wheel chock L134
9805910003 Wheel chock L134S

With long bracket for easier application.


Wheel chock L134

ROSTOP 59.10 Drag Shoe

For dragging slowly rolling vehicles.

- Standard drag shoe of DB
- Double fishplated for flat bottom rails
- Single fishplated for grooved rails (left-hand and right-hand side)
- Cap and handle replaceable
- Dimensions (L x W x H) 550 x 90 x 140 mm
- Weight from 7.5 kg

Various versions on request.


ROSTOP 59.10 for flat bottom rails – 8005910001

RODERAIL 59.11 Double Drag Shoe

For dragging slowly rolling vehicles.

- Consists of 2 double fishplated standard DB drag shoes
- Connected by a thread rod and a steel tube
- Cap and handle replaceable
- Weight from 20 kg

Various versions on request.


RODERAIL 59.11 – 9805911003

ROREERAIL 59.12 Double-Sided Rerailing Frog

For on-tracking rail vehicles.

- Used in pairs on standard railways with heavy wagon fleet
- Sturdy ramp with access to rails from both sides
- Pressure intake: 12.5 t each
- Dimensions (L x W x H) 800 x 600 x 270 mm
- Weight from 75 kg


RORERAIL 59.12 – 9805912001

ROJOINT 68.61 Rail Puller

With the rail puller a rail with an undrilled rail end can be pulled off using a tension lock; the rail puller is mainly used for unloading long rails. The rail puller is used for pulling the first rail (using a belt or rope).


ROJOINT 68.61 – 4308371005

SPECIFICATION

Maximum tensile force		30 kN
Minimum clamping force[1]		10 kN
Curve radius of rail[2]	vertical	≥ 120 m
	horizontal	≥ 100 m
Weight of rail clamp		26.5 kg
Tightening torque of screw bolt		80 Nm
Loosening torque of screw bolt		up to 1000 Nm
Rail joint spacing after pulling process is 25 to 35 mm		
Design for rail types 60E1, 54E1, JIS60		
Design for rail type 49E1, BV50		
Design for rail type BS113A		

1 Minimum clamping force: The required clamping force is achieved automatically as soon as the connected rails are tensioned or pulled. As a result of the static friction, the connected rail must have a detachment force of 10 kN minimum (corresponds to approx. 50 m 60E1 on an oiled wooden base)
2 Data for flat ground rail tracks

ROJOINT 68.61 Rail Joiner

With the rail joiner, two undrilled rail ends can be connected by a tensile securing device; the rail joiner is mainly used for unloading ultra-long rails.


ROJOINT 68.61 – 4308370003

SPECIFICATION

Maximum tensile force		40 kN
Minimum clamping force[1]		10 kN
Curve radius of rail[2]	vertical	≥ 120 m
	horizontal	≥ 100 m
Weight of rail joiner		21.0 kg
Tightening torque of screw bolt		80 Nm
Loosening torque of screw bolt		up to 1000 Nm
Rail joint spacing after joining process is 25 to 35 mm		
Design for rail types 60E1, 54E1, JIS60		
Design for rail type 49E1, BV50		
Design for rail type BS113A		

1 Minimum clamping force: The required clamping force is achieved automatically as soon as the connected rails are tensioned or pulled. As a result of the static friction, the connected rail must have a detachment force of 10 kN minimum (corresponds to approx. 50 m 60E1 on an oiled wooden base)
2 Data for flat ground rail tracks

TAMPING



ROTAMP 62.05

Vertical Tamper Series

ROTAMP 62.05CC Vertical Tamper


62.05CC Petrol version - 8809900031

For all tamping work on the track.

The track geometry of the permanent way is vital for the safety of the railways. Deviations from the target geometry arising from level defects jeopardise the rail traffic. They result in restricted speed sections or even line closures.

ROTAMP with its ROBEL vertical tamping principle allows for accurate interlocking of the ballast. Its high tamping performance enables more tamping operations within a given time and is easy on the operator. ROBEL developed the patented 2-level vibration decoupling, which reduces the hand-arm vibration to a minimum. The low weight of the ROTAMP and its handy design allow for comfortable and ergonomic working.

Sleeper tamped within 2 minutes.

THE ADVANTAGES. YOUR BENEFITS.

Stable track geometry with the ROBEL vertical tamping principle
- Optimum ballast compaction under the sleeper
- High loading capacity of track bed due to tightly interlocked ballast
- Continuous railway operation and better utilisation of line capacity
- Long durability of ballast compaction

High tamping performance with optimum ergonomics
- Minimum hand-arm vibration thanks to patented 2-level vibration decoupling
- Low machine weight relieves the operator
- Thermal shielding with cover hood
- Exhaust gas routing away from operator
- Option: Central safety shutdown

Cost reduction
- Ballast-friendly tamping avoids replacing sleepers and ballast
- Low wear/maintenance costs thanks to solid design
- Replaceable tamping tool made of wear-resistant steel

SPECIFICATION

Drive	2-stroke petrol engine	4-stroke petrol engine	Electric motor
			optional with ROPOWER
			70.01 generator:
			9002100186 (for 1 – 2 tampers)
			9002100190 (for 1 – 4 tampers)
Type	Kawasaki	Honda GX50	
Output	1.42 kW	1.47 kW	0.75 kW/vertical tamper
Dimensions (L x W x H)	1130 x 500 x 430 mm	1130 x 500 x 430 mm	1130 x 480 x 410 mm
Weight	from 24.3 kg	from 23.8 kg	from 24.5 kg
Diameter tamping tool	95 mm	95 mm	95 mm

ACCESSORIES

8803751002V Tamping tool
9806205010 Transport box
9899890100 Shoulder strap

Safety shutdown to alert of potential danger.
On the work site the operator can focus on tamping and will be warned of approaching trains by the central shutdown of the vertical tampers. One supervisor can stop up to 4 vertical tampers simultaneously.

8809910004 Conversion kit for safety shutdown; one each required per vertical tamper
9008120435 Connection cable, one each per vertical tamper
9008120434 Cable drum, can be used for 1 to 4 vertical tampers
8868230001 Rail movement indicator, indicates the horizontal movement of the rail in relation to the ballast
8999910002 Additional carrying handle for easy transport of the vertical tamper

Optional accessories for servicing work:
8808950120 Mounting aid for placing vertical tamper in a vice
8998950001 Removal device for eccentric shaft

For measuring the tamping tool wear:
Using the templates, you can see the wear of the tamping tool

9880890100 Wear gauge tamping tool

ROTAMP 62.05L Vertical Tamper Light


ROTAMP 62.05 Light – 8999900013

For all tamping work on the track.

THE ADVANTAGES. YOUR BENEFITS.

Tamping sleepers quickly and easily.
- ROBEL vertical tamping principle allows for accurate interlocking of the ballast
- Reduced tamping time due to optimum ballast compaction
- Available in different versions

ROTAMP 62.05 Light:
- In areas difficult to access (e.g. railway embankment)
- On more heavily compacted ballast bed

ROTAMP 62.05 Light Short:
- For ergonomic working for shorter operators thanks to 120 mm lower handle

ROTAMP 62.05 Light Flex:
- For ergonomic working for operators of different heights, thanks to 5 adjustable heights from standard handle position

ROTAMP 62.05 Light Slim:
- Reduced tamping tool diameter for heavily soiled ballast bed

ROTAMP62.05 Light Slim Short:
- 120 mm lower handle and reduced tamping tool diameter

SPECIFICATION	Light	Light Short	Light Flex	Light Slim	Light Short Slim
Drive	4-stroke petrol engine	4-stroke petrol engine	4-stroke petrol engine	4-stroke petrol engine	4-stroke petrol engine
Type	Honda GX50	Honda GX50	Honda GX50	Honda GX50	Honda GX50
Output	1.47 kW	1.47 kW	1.47 kW	1.47 kW	1.47 kW
Dimensions (L x W x H)	1100 x 500 x 440 mm	1100 x 500 x 440 mm	1100 x 500 x 440 mm	1100 x 500 x 440 mm	1100 x 500 x 440 mm
Weight	18.9 kg	18.7 kg	21.5 kg	18.5 kg	18.4 kg
Height adjustment	No	No	Yes	No	No
Diameter tamping tool	75 mm	75 mm	75 mm	65 mm	65 mm

ACCESSORIES

5993760001V Tamping tool
5993760002 Tamping tool reinforced for approx. double the service life, additional 1.5 kg
5993760003 Tamping tool 62.05 Light Slim/ 62.05 Light Short Slim



8998980120 Tamping tool wear gauge



9898980120

9806205010 Transport box

9899890100 Shoulder strap





ACCESSORIES FOR SERVICING WORK:

8998950200 Extractor device for tamping tool



8808950120 Mounting aid for placing vertical tamper in a vice



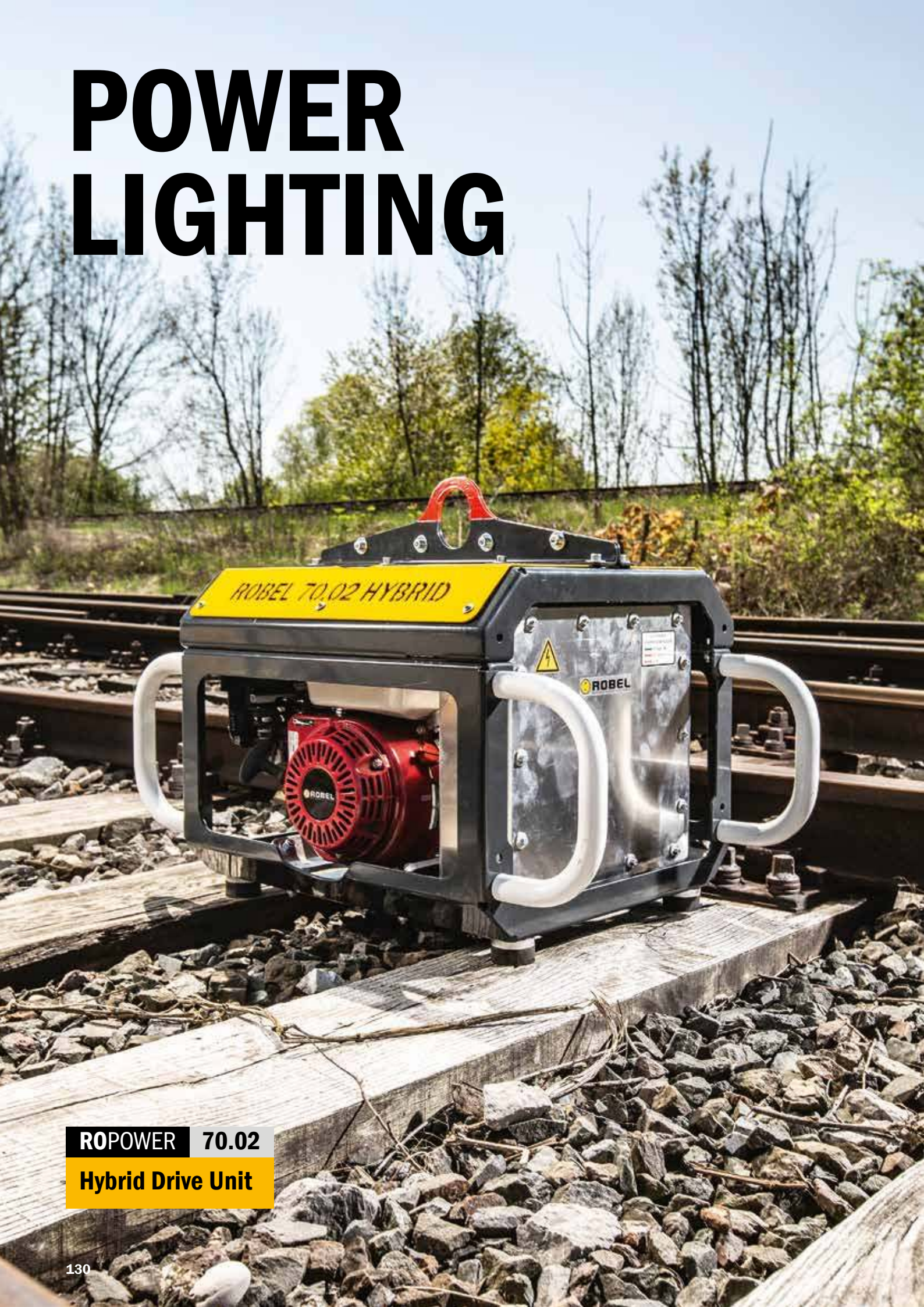
8808950120 (red)

8998950001 Removal device for eccentric shaft



8998950001 (red)

POWER LIGHTING



ROPOWER 70.02

Hybrid Drive Unit

ROPOWER 70.01 Generator


ROPOWER 70.01 – 5919910001

Availability of power independent of power supply.

THE ADVANTAGES. YOUR BENEFITS.

- Tested for safety (GS test mark) as per Art. 21
- Meets requirements of VDE Electrical Engineering Association
- Noise emission complies with EEC Directive 84/536 on Noise Protection
- Isolation monitoring with shutdown as per Regulation GW 308 Product Safety Act
- Long operating times due to large tank
- With single-axle trolley

SPECIFICATION

Drive	4-stroke petrol engine	4-stroke petrol engine
Type	Honda GX270, with oil level monitoring	HondaGX 390, with oil level monitoring
Output	5.4 kW	7.5 kW
Output	4 kVA/400 V and 3.7 kVA/230 V, 50 Hz	6.1 kVA/400 V and 5.2 kVA/230 V, 50 Hz
Protection type	IP 54 (protection insulated)	IP 54 (protection insulated)
Weight	from 88 kg	from 100 kg

ACCESSORIES

9008060025 Socket distributor with emergency off switch
9008120218 Cable drum/extension lead 30 m long


9008120218


9008060025

ROPOWER 70.02 Hybrid Drive Unit

For powering:

- ROGRIND 13.49 E³ Hybrid Rail Head Profile Grinding Machine



ROPOWER 70.02 – 5029900002

THE ADVANTAGES. YOUR BENEFITS.

- ROBEL supercaps in the power pack allow for the storage of excess energy from grindstone idling and will release it again during load peaks.
- Oil level monitoring with automatic shut-off when low
- Especially smooth and low-vibration engine run

SPECIFICATION

Drive	4-stroke engine
Type	Honda GX200
Output	up to 7.0 kW
Total weight	from 49.5 kg

ACCESSORIES

5026930001 Discharging box
for discharging the supercaps for maintenance



Discharging box – 5026930001

ROPOWER 70.03 Power Supply

As alternative drive for machines with brushless electric motor:

- ROCUT 13.90 E³
- ROGRIND 13.45MD E³
- ROGRIND 13.49 E³
- ROCONVERT 72.01 E³



ROPOWER 70.03 – 5039900003

SPECIFICATION

Input voltage	400 VAC* 50/60 Hz
Input power	11 kW
Output power	10 kW
Weight from	18 kg
Length of connection cable	5 m (CEE-32A safety plug)

*VAC = Volt a.c. current; *VDC = Volt d.c. voltage

ROPOWER 76.02 High-Pressure Power Pack – Petrol

For powering:
- ROSTRESS 24.70 Hydraulic Rail Stressor
- ROTRIM 14.10 Hydraulic Weld Trimmer

THE ADVANTAGES. YOUR BENEFITS.

- Low space requirement for transport and storage due to compact design
- Protection of components from damage
- Speedy operation due to automatic changeover from low pressure range to high pressure range
- Mechanically coded connections rule out misuse
- Use of a second rail stressor possible due to integrated shut-off valves in the hose kit



ROPOWER 76.02 – 5149900301
2-part carrying handles – 5148930301

SPECIFICATION	Single	Dual
Drive air-cooled	4-stroke petrol engine	4-stroke petrol engine
Output	2.6 kW	2.6 kW
Pressure supply	550 bar	550 bar + 670 bar
Dimensions (L x W x H)	700 x 385 x 395 mm	700 x 385 x 395 mm
Total weight power pack (without carrying handles, without hoses)	from 41 kg	from 47 kg
Powering	ROTRIM 14.10	ROTRIM 14.10 + ROSTRESS 24.70
Emergency hand pump	no	yes (optional)

ACCESSORIES

5088930001 4-part carrying handles
5148930301 2-part carrying handles



5088930001 5148930301

9000860451 Hose kit
ROTRIM 14.10 Hydraulic Weld Trimmer
5087900005 Hose kit
ROSTRESS 24.70 Hydraulic Rail Stressor
with lashing protection (increased safety)



9000860451 5087900005

5088930003 Distribution block for operating 2 rail stressors (ROSTRESS 24.70)



5088930003

ROLIGHT 73.20 Site Illumination

For cordless lighting of work sites.

THE ADVANTAGES. YOUR BENEFITS.

- Flexible use
- Cordless source of light for any work area
- Can be used in wide temperature range of –20 °C to +40 °C
- Includes battery, charger and stand

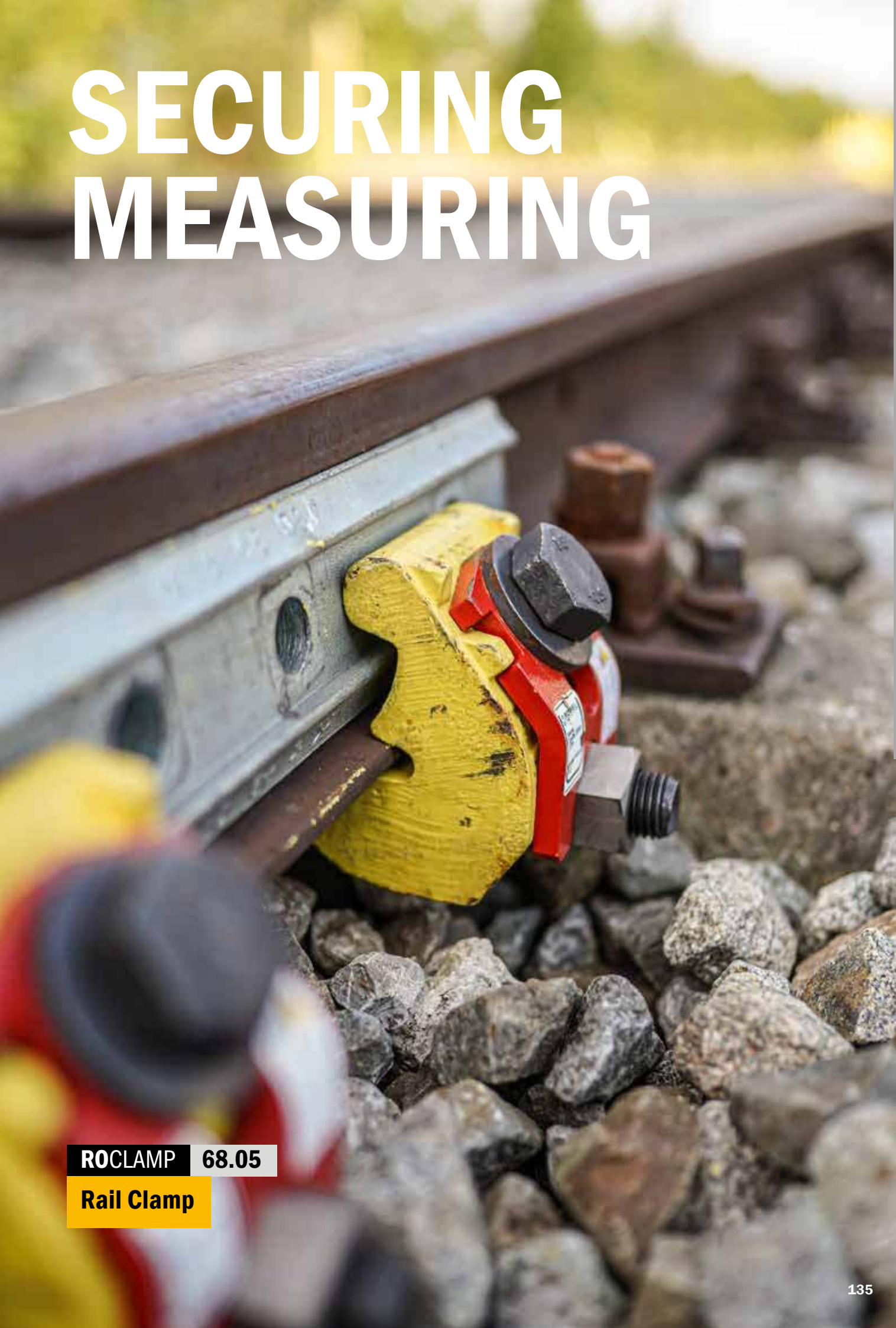


ROLIGHT 73.20 – 9008130720

SPECIFICATION

LED lighting duration	4-8 h at 100 % luminosity
	up to 16 h at reduced luminosity
LED output	up to 0.03 kW
Battery	LI-ION 6 Ah, 22.2 V
Charging time	< 8h
Protection class lamp/battery	IP65/III
Weight (without stand)	3.7 kg
Dimensions (L x W x H)	305 x 295 x 110

SECURING MEASURING



ROCLAMP 68.05

Rail Clamp

ROCLAMP 68.05 Rail Clamp



ROCLAMP 68.05 – 9806805005

**For a safe and reliable connection of two rail ends.
For insulated rail joints, rail breaks, and detected rail defects.
From prevention to repair.
In use worldwide.**

Depending on the position and type of the fracture point, either two short or one long rail clamp is used.

Application of short standard version
To connect two different rail types via transition fishplates or at the fracture points of a welded rail joint, a short rail clamp is fitted to both ends of the fishplate.
The short variant is particularly suited for tight spaces, e.g. at stock rails, in the switch blade or frog area but also for the use on cropped fishplates.

Application of long standard version
A long rail clamp is sufficient for connecting an insulated rail joint in the sleeper crib.

THE ADVANTAGES. YOUR BENEFITS.

Various possibilities of use
- Different versions for various rail types
- Can also be deployed for thermite welding with the use of cropped fishplates
- Can also be used on slab track
- EBA approval
- DB user acceptance

Cost effectiveness
- Track remains open for traffic thanks to quick installation
- Long service life at reduced inspection intervals and low maintenance effort
- High passing speed, depending on rail defect

Safe & user-friendly
- Patented safety latch (screw locking)
- Precise adjustment to rail profile and fishplate
- Perfect fit due to 3-point support concept for the appropriate rail/fishplate combination
- Rail clamp and securing plate are secured with the same torque
- Colour coding in line with rail profile
- Easy to use thanks to compact design and minimum excavation of ballast

SPECIFICATION	Long
For rail types	60E1, 54E3, 49E1 (each with suitable fishplate)
Permitted speed	up to 200 km/h, depending on infrastructure manager
Dimensions (L x W x H)	190 x 280 x 130 mm
Tightening torque	580 Nm
Weight	21.5 kg (depending on specified rail profile)


ROCLAMP 68.05 – 9806805004

SPECIFICATION	Short
For rail types	60E1, 54E3, 49E1 (each with suitable fishplate)
Permitted speed	up to 200 km/h, depending on infrastructure manager
Dimensions (L x W x H)	100 x 280 x 130 mm
Tightening torque	580 Nm
Weight	11.5 kg (depending on specified rail profile)

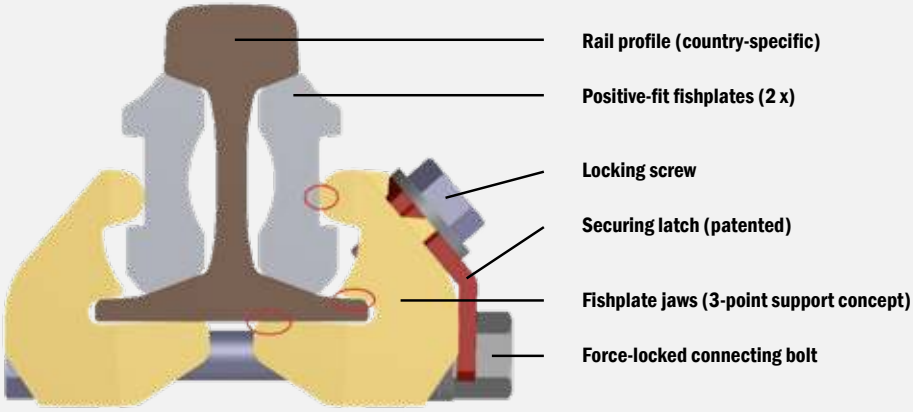

ROCLAMP 68.05 – 9806805005

The following countries can also be supplied with:

- **Australia:** short and long version for rail profiles AS53Kg, AS60Kg, AS68Kg, AS41 kg, AS47 kg
- **Belgium:** short version for rail profiles 50E2, 50E2T1, 60E1
- **Denmark:** short version for rail profiles 60E1, 45E2
- **Germany:** short and long version for rail profiles 50E6, 54E1, 60E2
- **France:** short and long version for rail profiles 49E1, 60E1, 54E3
- **United Kingdom:** short and long version for rail profiles BS113A, 60E1, 49E1, 39E1, short version for rail profile S41-R10
- **New Zealand:** long version for rail profiles OT50 (NZ50kg), 91lb, NZR, AS50kg, IRS 52 kg, 48,5 kg
- **Lithuania:** short version for rail profile R65

The rail clamps listed are not suitable for grooved rails. For any queries concerning further rail clamps or your specific rail/fishplate combination, please get in touch with your ROBEL contact.

Schematic diagram of installed rail clamps:



Staytite Intelligent Bolts:

- For continuous digital monitoring of the bolt load
- Optimal mechanical-digital product for efficient, cost-effective and safe track maintenance
- Intelligent Bolts exclusively available for ROBEL Rail Clamps



ACCESSORIES

9002501790	Torque wrench with adjusting scale automatic release tightening torque 130 – 650 Nm 3/4 inch square drive weight from 2.9 kg reversible with push-in ratchet
9002501120	Socket AF 38 or AF 41 Hexagon socket wrench insert 3/4 inch square drive
9002001601	Intelligent bolt: the bolt is tightened until the sensor's LED lights up accordingly. For remote monitoring of the preload force, a gateway and a tablet are required. These can be ordered directly from Staytite: staytite-rail.com/intelligent-bolts
9001200131	Straight fishplate FL30a, for rail profile 60E1 (suitable for version 4 and 5)
9001201119	Straight fishplate FL14a, for rail profile 54E3 (suitable for version 4 and 5)
9001200129	Straight fishplate FL41/49, for rail profile 49E1 (suitable for version 4 and 5)

ROCLAMP 68.05 Rail Clamp Slab Track



ROCLAMP 68.05 – 8689905001

For a safe and reliable connection of two rail ends.
Another version of the proven ROBEL Rail Clamp for slab track.

Application
Suitable for insulated rail joints, rail breaks, and identified rail defects, from preventive protection to repair (2 pieces required per joint).

THE ADVANTAGES. YOUR BENEFITS.

Various possibilities of use
- Can also be deployed for thermite welding with the use of cropped fishplates
- Can be used on slab track (Rheda 2000, PORR, Bögl, Züblin, etc.) and ballast track
- EBA approval (in the approval process)
- DB user acceptance (in the approval process)
- Suitable for very tight installation dimensions (minimum clearance between rail foot and concrete surface: 35 mm).

Cost effectiveness
- Track remains open for traffic thanks to quick installation
- Long service life at reduced inspection intervals and low maintenance effort

Safe & user-friendly
- Patented safety latch (screw locking)
- Precise adjustment to rail profile and fishplate
- Perfect fit due to 3-point support concept for the appropriate rail/fishplate combination
- Rail clamp and securing plate are secured with the same torque
- Easy to install due to its compact design
- All bolts feature a 30 mm wrench size

SPECIFICATION	Slab Track
For rail types	60E1 (UIC60)
Fishplate type	NL32, NL32K
Dimensions (L x W x H)	155 x 280 x 115 mm
Tightening torque	220 Nm
Weight	approx. 15 kg
(Other rail/fishplate combinations available on request.)	

ACCESSORIES

9002501790	Torque wrench
9002501121	Socket AF 30
9001202008	Rail clamp NL32

MEASURING EQUIPMENT

ROMEAS 82.05 Versine Measuring Device

For measuring track curves.

- Not independent of clearance gauge
- Two aluminium angle supports with level
- 50 m chord/nylon rope
- With ruler
- Complete in faux leather bag
- Weight 2.6 kg


ROMEAS 82.05 – 8008205001

ROMEAS 82.05 WM Measuring Bars for Versines "Wuppertal Method"

For measuring versions ± 700 mm

- Independent of rail profile
- Two end bars with a measuring scale, made of aluminum T-profile
- One center bar with a measuring scale, made of aluminum T-profile
- Different track gauges available
- The measuring device is insulated

MEASURING PARAMTERS

- Versine ± 700 mm
- Chord is depending on the cord


ROMEAS 82.05 – 9008025001

SPECIFICATION

Track gauge	1435 mm
End bar	± 200 mm
Center bar	± 700 mm
Dimensions (L x B x H)	1540 x 103 x 447 mm
Weight	4.0 kg

ROMEAS 82.06 Versine Measuring Device

For easy checking and determination of versine values in a track curve.

- Independent of clearance gauge
- Can be used for all common rail types
- Measuring chord can be adjusted to rail height as well as in lateral direction
- Easy fastening at the foot of the rail
- Consisting of 2 tension clamps with rope drum and 50 m chord/nylon rope
- Complete in faux leather bag
- Weight 4.3 kg


ROMEAS 82.06 – 800826001

ROMEAS 82.07 VIG 1300 Sighting and Levelling Device

Optical instrument for determining longitudinal level, track level and switch level.


ROMEAS 82.07 VIG1300 – 808207001

THE ADVANTAGES. YOUR BENEFITS.

Ergonomical & precise
- High-quality optics with tilting device
- Sturdy tripod with practical quick-fastening and bubble tube for checking alignment
- Sighting stick with level for alignment and transport bracket can be split
- Mirrored circular bubble
- With scale for displaying rotation area
- True image

SPECIFICATION

Optics	
Height-adjustable	+ 50 mm
Tilting range	± 40 ‰
True image	
Telescope magnification	24-fold
Shortest sighting range	< 0.5 m
Rotation range	with micro adjustment 360°
Sighting rod	
Measuring scale	with mm/E-graduation
Measuring range of basic scale	± 800 mm
Measuring range of adjustable level slide	+150 mm to –100 mm
Total weight	10.3 kg

ACCESSORIES

Mounting support for grooved rail

ROMEAS 82.11 SQUARE Track Square


82.11 SQUARE – 8008211002 (separable design)


82.11 SQUARE – 8008211001 (rigid design)

For aligning sleepers.

THE ADVANTAGES. YOUR BENEFITS.

- Double leg
- In robust aluminium construction
- With inner and outer stops
- Insulated from rail to rail

SPECIFICATION	Fixed design	Separable design	Version for switch blades
Abmessung (L x B)	1700 x 1400 mm	1700 x 700 mm	800 x 600 mm
Weight	3.6 kg	3.2 kg	1.8 kg

ROMEAS 83.07 RCA Analogue Switch Gauge and Cant Measuring Device

For all common measuring points of switches and tracks.


ROMEAS 83.07 RCA – 9808307100

THE ADVANTAGES. YOUR BENEFITS.

- Modular design and low weight
- Available for different track gauges
- Insulated from rail to rail
- Add-ons for extra features available
- DB user acceptance

SPECIFICATION

Track gauge	1435 mm (1415 mm to 1475 mm)
Check rail gauge	1385 mm to 1405 mm
Back-to-back distance	1345 mm to 1361 mm
Flangeway clearance	30 mm to 82 mm
Cant	–30 mm to +200 mm
Weight	2.5 kg

Other gauges available on request.

ACCESSORIES

Exchangeable measuring probes
Non-conductive fibreglass design
Separable design for gauge sizes ≥ 1435 mm
Version for grooved rails ≥ 20 mm
Test adapter for switch blades (gauges 1/2)
DB test adapter for switch blades (gauges 1/2/2-19/2-21)
Frog nose inclination measuring unit
Check rail height measurement unit
Transport bag for separable devices
Solid, well-padded transport case

ROMEAS 83.15 POINT Fixed Point Measuring Device

For measuring distances between fixed points at the track and signal posts, concrete walls, etc. and for checking individual level values using an appropriate measuring stick.


ROMEAS 83.15 Point – 8008315001

THE ADVANTAGES. YOUR BENEFITS.

- Attached to the rail by magnets
- Exact position adjustable via a level

SPECIFICATION

Weight	1.2 kg

ROMEAS 83.18 MK150 Joint Gap Measuring Device

For measuring the distance between two adjoining rails and for checking the switch blade.

- Aluminium
- With measuring scale


ROMEAS 83.18 MK150 – 8008318001

SPECIFICATION

Measuring range	1 mm to 150 mm
Weight	0.1 kg

ROMEAS 83.20 GG718 Stock Rail and Switch Blade Template

For correct and safety-relevant checking and measuring of wear spots in the switch blade area.

GG718 is available in a standard version (Gauge 1/2) and in the DB version (Gauge 1/2/2-19/2-21).

- Insulated from rail to rail
- Including feeler gauge Ø 4 mm
- Gauge 1/2
- Gauge 1/2/2-19/2-21 (DB)
- DB user acceptance


ROMEAS 83.20 GG718 – 8008320001

SPECIFICATION

Weight	1.4 kg

ROMEAS 83.37 RCS Analogue Track Gauge and Cant Measuring Device

For all common gauge and cant measuring points in tracks.


ROMEAS 83.37 RCS – 9808337100

THE ADVANTAGES. YOUR BENEFITS.

- Modular design and low weight
- Available for different track gauges
- Insulated from rail to rail
- Add-ons for extra features available
- DB user acceptance

SPECIFICATION

Track gauge	1435 mm (1415 mm to 1500 mm)
Cant	–30 mm to +200 mm
Weight	2.5 kg

Other gauges available on request.

ACCESSORIES

Exchangeable measuring probes
Non-conductive fibreglass design
Separable design for gauge sizes ≥ 1435 mm
Transport bag for separable devices
Solid, well-padded transport case

ROMEAS 83.50 RCAD Digital Switch Gauge and Cant Measuring Device

For all common measuring points in switches and tracks.


ROMEAS 83.50 RCAD – 9808350001

THE ADVANTAGES. YOUR BENEFITS.

- Precise digital measurements @ 0.1 resolution
- Central, backlit measurement display
- Insulated from rail to rail
- Add-ons for extra features available

SPECIFICATION

Track gauge	1435 mm (1367 mm to 1475 mm)
Cant	+/– 225 mm
Flangeway clearance	20 – 128 mm
Check rail gauge	1347 – 1455 mm
Back-to-back distance	1327 – 1435 mm
Weight	2.5 kg

Other gauges available on request.

Option: Bluetooth upgrade
With the Bluetooth version, the displayed values can either be stored in the internal device storage or directly transferred to a paired smart device for further processing and storing. Supported operating systems: Android, iOS, Windows.

ACCESSORIES

Exchangeable measuring probes
Non-conductive fibreglass design
Separable design for gauge sizes ≥ 1435 mm
Test adapter for switch blades (gauges 1/2)
DB test adapter for switch blades (gauges 1/2/2-19/2-21)
Frog nose inclination measuring unit (analogue)
Groove depth measurement unit (analogue)
Check rail height measurement unit (analogue)
Solid, well-padded transport case
Transport bag for separable devices
Bluetooth upgrade
Wide measuring bases MB1100 and/or MB1800

ROMEAS 83.87 PLAT Platform Clearance Gauge

For measuring the distance between centre of track and platform (ramp) and for measuring the height from top of rail to platform edge, including track gauge and cross level measurements.


ROMEAS 83.87 PLAT – 9808387050

THE ADVANTAGES. YOUR BENEFITS.

- Insulated from rail to rail
- Supplied with two vertical measuring bars (700 mm and 1200 mm height related to platform edge)
- Storage of level measuring blocks in transport tube

SPECIFICATION

Track gauge	1435 mm (-10 mm to +40 mm)
Horizontally	from centre of track 0 mm to 2050 mm
Vertically	from top of rail 0 mm to 1200 mm
Superelevation	–30 mm to +200 mm
Weight	5.5 kg

Other gauges available on request.

ACCESSORIES

Transport and storage case

ROMEAS 85.01 SKM Rail Head Wear Measuring Device

To determine vertical and lateral wear of rail profiles.

Available in variants SKM 1 and SKM 2. SKM is scaled and can be pre-adjusted for different rail profiles. Other or additional rail profiles available on request.


ROMEAS 85.01 SKM1 – 8008501001

THE ADVANTAGES. YOUR BENEFITS.

- Robust aluminium construction with magnetic clamp
- Includes handy plastic case
- Can be configured for further rail profiles
- DB user acceptance

SPECIFICATION	SKM1	SKM2
Standard profiles	49E5, 54E4, 60E2	49E5, 54E4, 60E2
Lateral slide gauges	1	3
Measuring reference to rail centre line	45°	22.5°, 45°, 67.5°
Weight	1.2 kg	1.5 kg

ROMEAS 85.02 MP Measuring Gauge

For determining reference points L + L1 during welding work in switches and crossings.

- Galvanised surface
- For rails 49E1, 54E3, 60E1
- Special equipment for other rail profiles
- Weight 0.6 kg


ROMEAS 85.02 MP – 9001300056

ROMEAS 85.05 Rail Measuring Roller

For measuring the lengths of rail sections.

For rail profiles 49E1, 54E3, 60E1

THE ADVANTAGES. YOUR BENEFITS.

- Available in measuring tolerances “Standard” (under 0.05 %) and “Precision” (under 0.02 %)
- Counter above the running wheel (also counts backwards)

SPECIFICATION

Measuring range	up to 10,000 m
Wheel diameter	318.5 mm = 1 m circumference
Weight	5.5 kg

ACCESSORIES

Transport and storage case


ROMEAS 85.05 – 9808505001

ROMEAS 85.07 SA75 Track Spacing Instrument

For checking the track geometry with reference to a fixed point at the catenary support or adjacent track.


ROMEAS 85.07 SA75 – 8008507001

THE ADVANTAGES. YOUR BENEFITS.

Track distance and level measurements to the fixed point can be determined accurately in a single operation.

Note: For fixed point measurements to the centre of track half the track gauge is included.

SPECIFICATION

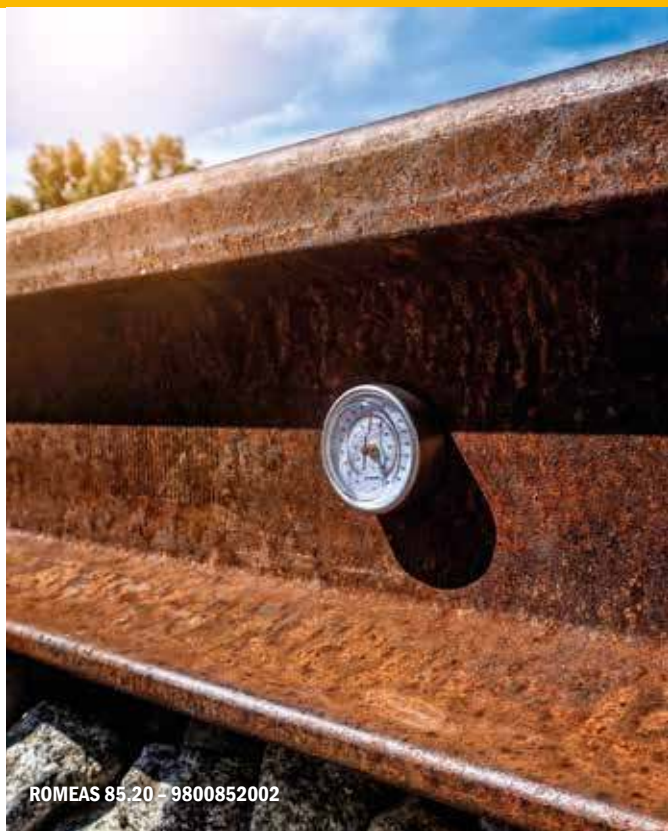
Measuring range	Measurable distance 1250 mm to 4262 mm
Measurable height	up to 700 mm
Weight	6.5 kg

ACCESSORIES

Transport and storage case

ROMEAS 85.20 Rail Thermometer

For measuring the target rail temperature for length compensation during rail neutralisation before joint welding.


ROMEAS 85.20 – 9800852002

THE ADVANTAGES. YOUR BENEFITS.

- Round with magnetic clamp
- White dial plate with easy-to-read scale

SPECIFICATION

Nominal size	40 mm
Measuring range Centigrade	–30 / +70° C
Measuring range Fahrenheit	–20 / +160° F
Weight	0.07 kg

ACCESSORIES

Aluminium screw cap box (Ø 46 x 23 mm)

The digital measuring systems listed here are available on request from our ROBEL Holding partner 'Vogel & Plötscher'.

ROMEAS 83.40 MESSREG PTP II Portable Switch Inspection System

Digital point-to-point measurement (incl. instant evaluation) in switches and tracks.


ROMEAS 83.40 MESSREGPTPII

THE ADVANTAGES. YOUR BENEFITS.

- Digital measuring system
- Equipped with a 8'' outdoor tablet computer (Windows OS)
- User-friendly software with menu-guided measurement process
- Measuring points are recorded at the touch of a button
- Automatic storage and direct display of results (incl. exceeded tolerances)
- DB user acceptance
- Meets requirements of EN 13484-4:2011
- Mobile pushing trolley "WeichenCaddy II" (option)

MEASURED PARAMETERS

- Track gauge
- Flangeway clearance
- Check rail gauge
- Back-to-back distance
- Cant
- Twist
- Calculated values
- Results of switch blade checking

ROMEAS 83.41 MESSREG CDM Track and Switch Inspection Trolley

Comprehensive measurement (incl. instant evaluation) of switches and tracks by automatic-continuous data capture every 5 mm.



ROMEAS 83.41 MESSREGCDM

THE ADVANTAGES. YOUR BENEFITS.

- Digital measuring system
- Menu-guided measurement process with display of measuring progress and current measurement values in real time
- Automatic storage and direct display of results (incl. exceeded tolerances)
- Comment function for entering customized notes or events
- Equipped with high-performance 10" outdoor notebook and comprehensive software package
- DB user acceptance
- Meets requirements of EN 13484-4:2011

MEASURED PARAMETERS

- Track gauge
- Flangeway clearance
- Flangeway depth (option)
- Check rail gauge
- Back-to-back distance
- Cant
- Twist
- Calculated values
- Results of switch blade checking
- Distance travelled
- GPS (option)

The digital measuring systems listed here are available on request from our ROBEL Holding partner 'Vogel & Plötscher'.

ROMEAS 84.15 MESSREG CTS II Track Measurement Trolley

Efficient and comprehensive measurement (incl. instant evaluation) of the most common track parameters (track gauge, cant, twist).


ROMEAS 84.15 MESSREGCTSII

THE ADVANTAGES. YOUR BENEFITS.

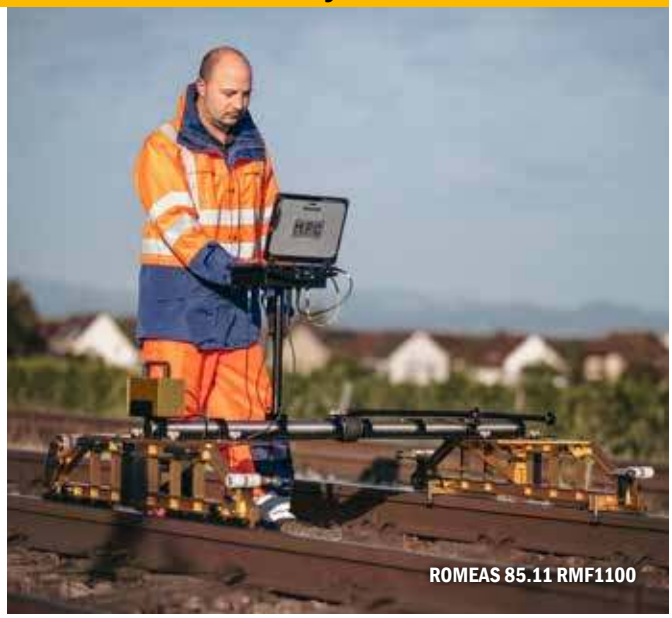
- Digital measuring system
- Numerical graphic display of measurement values and measuring progress in real time
- Comment function for entering customized notes or events
- Equipped with powerful 10" outdoor tablet and userfriendly software package for data recording and evaluation
- Meets requirements of EN 13484-4:2011

MEASURED PARAMETERS

- Track gauge
- Cant
- Twist
- Distance travelled
- GPS (option)

ROMEAS 85.11 RMF 1100 Corrugation Measurement Trolley

Automatic-continuous recording of the longitudinal profile from left and right rail (simultaneously) before/after rail treatment works.


ROMEAS 85.11 RMF1100

THE ADVANTAGES. YOUR BENEFITS.

- Digital measuring system
- Evaluation of welding joints
- Acceptance of reprofiling work
- Numerical graphic display of measurement values and measuring progress in real time
- Comment function for entering customized notes or events
- Equipped with 10" outdoor notebook and userfriendly software package for data recording and evaluation.
- DB user acceptance
- Meets requirements of EN 13231-2:2020

MEASURED PARAMETERS

- Rail longitudinal profile (corrugation) in wavelength range 10 – 1000 mm
- Examination of welding joints
- Distance travelled

The digital measuring systems listed here are available on request from our ROBEL Holding partner 'Vogel & Plötscher'.

ROMEAS 85.12 RM 1200D Portable Corrugation Measuring System

For recording the longitudinal rail profile and weld joint inspection (measuring section = 1200 mm) before/after rail treatment works.


ROMEAS 85.12 RM1200D

THE ADVANTAGES. YOUR BENEFITS.

- Digital measuring system
- Evaluation of welding joints
- Verification and acceptance of reprofiling work
- Numerical graphic display of measurement values and results
- Equipped with 8“ outdoor tablet and userfriendly software package for data recording and evaluation.
- DB user acceptance
- Meets requirements of EN 13231-2:2020

MEASURED PARAMETERS

- Rail longitudinal profile (corrugation) in wavelength range 10 – 1000 mm
- Examination of welding joints
- Distance travelled

ROMEAS 85.15 RM 150HR Measuring System of the Rail Surface Quality

Automatic measurement and evaluation of the rail surface quality index (QI) before/after rail treatment works


ROMEAS 85.15 RM150HR

THE ADVANTAGES. YOUR BENEFITS.

- Digital measuring system
- High resolution data capture at 0,1 µ
- Numerical graphic display of measurement values and results
- Acccepted measurement and proof of the rail surface quality [QI] after rail treatment works.
- Equipped with powerful 8“ outdoor tablet and userfriendly software package for data recording and evaluation.
- DB user acceptance
- Meets requirements of EN 13231-2:2020

MEASURED PARAMETERS

- Rail surface quality [QI]

The digital measuring systems listed here are available on request from our ROBEL Holding partner 'Vogel & Plötscher'.

ROMEAS 85.08 PML Laser-based transverse profile measuring system

Automatic capture (incl. evaluation) of the rail transverse profile of rails before/after rail treatment works.


ROMEAS 85.08 PML

THE ADVANTAGES. YOUR BENEFITS.

- Laser-based capture of the rail transverse profile
- Metal removal measurement
- Measurement and evaluation in real-time
- Comparison of the actual profile to many different target rail profiles
- Comparison of measurements before/after rail treatment
- Complies with EN 13231-2:2020
- Can be integrated into reprofiling machines
- For vignole rails (variant V)
- Option: grooved rail upgrade (variant VG)
- Can be used on most common track gauges

MEASURED PARAMETERS

- Rail transverse profile
- Metal removal

ROMEAS 85.16 RSCM Rail Flaw Testing System

RSCM is an advanced testing system to identify and rate defects (e.g. head checks, squats, cracks, RCF) within the rail near surface.


ROMEAS 85.16 RSCM

THE ADVANTAGES. YOUR BENEFITS.

- Detection and analysis of rail flaws down to 7 mm depth
- Unique and innovative technology based on magnetic-flux leakage testing
- Continuous-automatic measurement
- Covers the entire rail head
- Easy and instant data interpretation thanks to "damage heat map"
- Ideal supplement to ultrasonic measurement
- DB user acceptance
- Complies with EN 61000-6-4:2017

PROVIDED DATA

- Location and size/depth of near-surface rail flaws

Calibration and Repair

In line with applicable regulations and for operational safety, measuring equipment is to be tested and calibrated at regular intervals.
Your contact for calibration and repair of measuring instruments and systems:
Vogel & Plötscher GmbH & Co. KG, Geldermannstraße 4,
79206 Breisach, Tel. +49 7667 94 61 00, E-Mail. info@voploe.de

You can obtain further product information from our worldwide partners, from ROBEL Bahnbaumaschinen GmbH **www.robel.com** or Vogel & Plötscher GmbH & Co. KG **www.vogelundploetscher.de**

EQUIPMENT TOOLS



ROTOOL Eject **69.16**

Clip Bolt Ejecting Device

ROTOOL 68.03 Rail Tilting Device

For manual tilting of all common rail types.

- For all rails of a weight up to 65 kg/m
- Dimensions (L x W x H) 1300 x 140 x 35 mm
- Weight from 6 kg



ROTOOL 69.01 Drift Punch

Versions:

9800690290	Long version 290 mm, Ø 15mm (cylindrical), from 1.8 kg
9800690001	Short version 210 mm, Ø 16 mm (cylindrical), from 1.4 kg
9800690005	Hickory handle for track drift punch



ROTOOL 69.02 Crow Bar

Versions:

9002500087	with spike pulling notch and point, L=1250 mm, Ø 30 mm, from 6.2 kg
9002500088	with cutting edge and point, L=1500 mm, Ø 30 mm, from 8.0 kg
9806902001	with ball and point, L=1800 mm, Ø 30 mm, from 10.1 kg





ROTOOL 69.03 Hammer

- For positioning rails into grooved plates and for driving plastic dowels into concrete sleepers
- With wear-resistant, replaceable plastic inserts

Versions:

9002500089	Hammer Ø 100 mm, from 5.3 kg
9002500112	Hammer Ø 125 mm, from 7.2 kg
9002501191	Hickory handle for hammer



ROTOOL 69.04 Track Ram

- To be used by 4 persons
- Wear-resistant, replaceable plastic inserts

Versions:

9800690004 Track ram, from 103 kg



ROTOOL 69.05 Tamping Pick

Versions:

8006905001 Tamping pick with handle, from 4.3 kg
9002500092 Tamping pick without handle, from 3.75 kg
9002500093 Handle for tamping pick



ROTOOL 69.06 Sleeper Hammer

- Forged with oval eye

Versions:

9002501193 Sleeper hammer 5 KG, from 5.5 kg
9002501194 Sleeper hammer 6 KG, from 6.5 kg
9002501195 Sleeper hammer 8 KG, from 9 kg



ROTOOL 69.07 Ballast Fork

Versions:

8006907001 Ballast fork (9-arm) with handle, from 2.7 kg
9002500095 Ballast fork (9-arm) without handle, from 1.8 kg
9002500109 Fork handle



ROTOOL 69.08 Points Lever

- For installing and removing plastic clips Ssb2, Ssb3 and Ssb4

Versions:

9800690003 Points lever, from 6 kg



ROTOOL 69.09 Steel Sheet Shovel



Versions:

8006909001	Steel sheet shovel with handle, from 1.9 kg
9002500098	Steel sheet shovel without handle, from 1.1 kg
9002500109	Shovel handle

ROTOOL 69.10 Switch Broom

- Switch broom with polypropylene insert
- Optional: Ice scraper attachment (self-installation)



Versions:

8006910002	Switch broom with handle, without ice scraper, from 1.9 kg
5169100100	Ice scraper without handle, from 1.1 kg

ROTOOL 69.11 Adze



Versions:

8006911001	Flat adze 85 mm with handle, from 1.4 kg
9002500120	Flat adze 85 mm without handle, from 1.1 kg
9002500120	Handle for adze

ROTOOL 69.12 Cold Chisel



Versions:

9002500103	Cold chisel with wood handle L= 600 mm, from 1.9 kg
9002500104	Cold chisel without handle
9002500139	Wood handle for cold chisel

ROHORN 69.13 Single-Tone Signal Horn

- „Blowing horn“

Versions:

9800690013	Single-tone signal horn
9800690151	Replaceable mouthpiece (plastic)



ROSIGN 69.14 SH 2 Stop Disc

Rectangular (440 x 550 mm), red with white border

9002002107	Stop disc without holder
9002007862	Stop disc, reflecting. without holder
9002002293	Holder for stop disc, to be fixed on the rail
9000800249	Holder for stop disc, to be fixed on the rail, suitable for 2 x SH2 discs (with option for flashing warning light)



ROHORN 69.15 Multi-Tone Signal Horn

Versions:

9800690015	Multi-tone signal horn, from 0.8 kg
9800690151	Replaceable mouthpiece (plastic)



ROTOOL 69.16 Clip Bolt Ejecting Device

For removing rusted clip bolts from grooved base plates.

8006916001 Clip bolt ejector



ROTOOL 69.18 Extraction Socket

For extracting torn off sleeper screws.

Easy to extract with T-key, impact wrench or wrenching machine.

- Adapter AF 39
- Profile inside diameter 17.5 mm
- Outside diameter 26 mm

Versions:

8338950101	Extraction socket for wooden sleeper screw – short (L = 110 mm)
8338950180	Extraction socket for wooden sleeper screw – long (L = 150 mm)



ROLIFT 69.20 Sleeper Lifting Device

For lifting lower lying sleepers during track installation.

- Hook-in part for ribbed plates (K-type construction) and for sleeper bolts (W-type construction)
- Dimensions (L x W x H) 1040 x 60 x 190 mm
- Weight from 4 kg



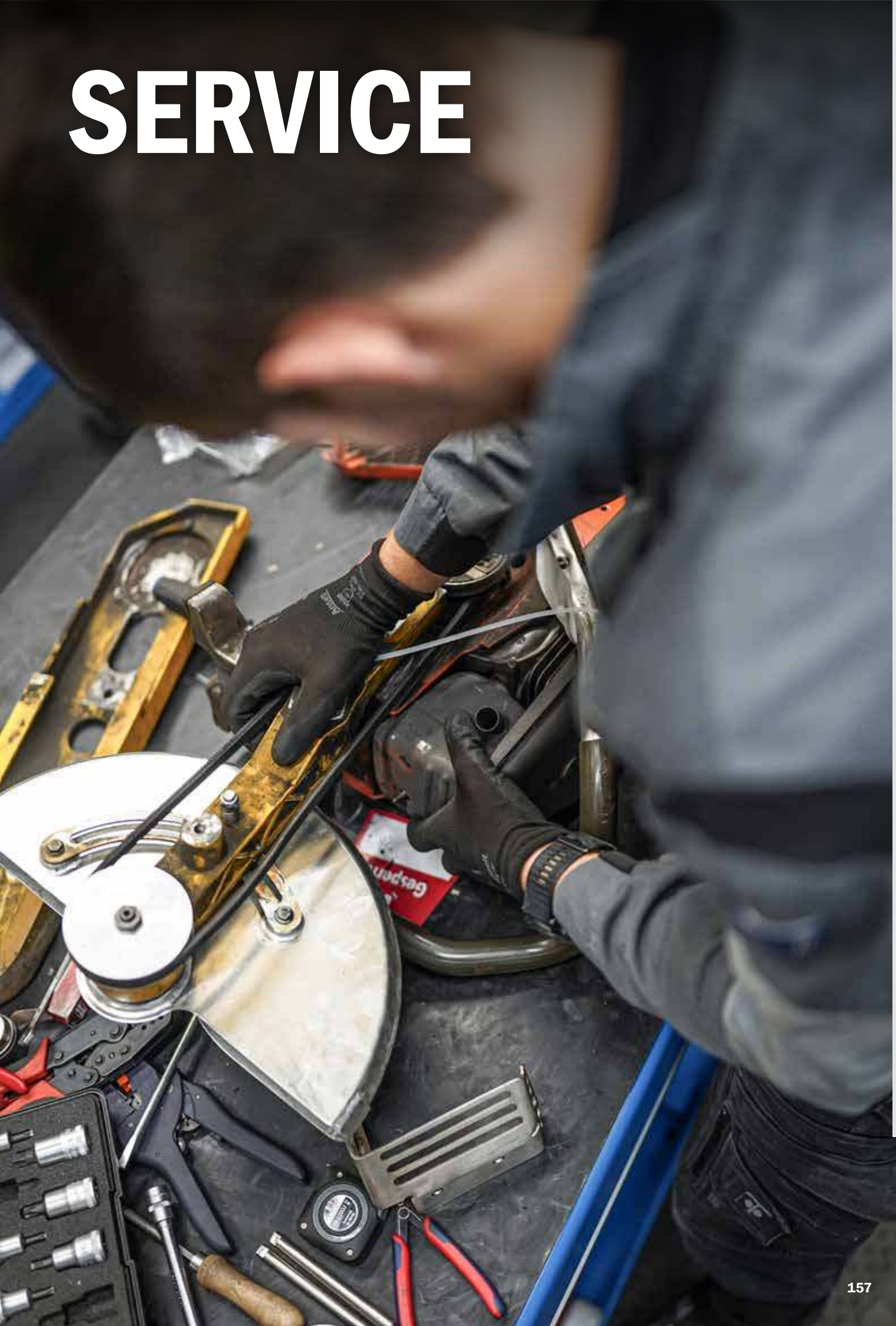
ROLIFT 69.20 – 8006920002

Torque Wrench

9002501218	Torque range 50 – 320 Nm
9002501790	Torque range 130 – 650 Nm
9002501248	Torque range 400 – 1000 Nm



SERVICE



What excellent service means

Reliable availability of modern track maintenance machines and equipment is one of the most important criteria for economically efficient operation. Trouble-free working and long periods of availability reduce downtimes and costs. Preventive maintenance ensures high functional safety and minimises consequential damage.

Excellent service guarantees a long service life and retains the value of equipment and is therefore the prerequisite for the effective and economically efficient use of machines.

When purchasing a ROBEL product, you not only get a high-quality make but also a reliable service partner.



In addition to expert advice, ROBEL also offers a wide range of services so that you can perform your work successfully in the long term:

- **Repair and maintenance with the use of quality-approved original parts**
- **Modification and customisation work**
- **Assessment of damage**
- **Original spare and wear parts**
- **Machine demonstrations**
- **Telephone advice**
- **Training of operators and workshop staff**





ROBEL Service stands for meeting deadlines, value for money and flexible, non-bureaucratic support throughout the service life of a product.

Make use of our service offerings and utilise the full potential of your machines.



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ROBEL Service training for you

Workshop online training
Digital training in the ROBEL digital workshop

Basic workshop training
Training by qualified ROBEL employees

Workshop training ROWRENCH 30.73PSM
Training on the precision power wrench

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This brochure shows a cross-section of the ROBEL product range.
In addition to that, ROBEL supplies a wide range of work vehicles such as trailers, special units and stationary machines for work on rails and sleepers.

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Together – for a world on track

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