

PRODUCT CATALOGUE WITH ACCESSORIES

Machines & Equipment



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ROBEL. EFFICIENT. ERGONOMIC. READY FOR ACTION.

Photo: Uhlenhut

For more than 100 years ROBEL has been producing railway construction machinery in solid quality and always with measurable benefit for operator and rail infrastructure companies.

It is the competence of our staff as well as the continuous pursuit of client oriented solutions that outlines ROBEL as a reliable partner of rail construction industry worldwide.

ROBEL – Great on Track.

With a highly motivated and qualified staff of at present over 480 employees, ROBEL manufactures more than 100 different product groups and supplies them to over 70 countries around the world. A wide range of hand guided machines and equipment for track construction and maintenance is complemented by complex track vehicles for technical operations. Moreover, ROBEL is committed to the development of custom-made solutions for specific projects in close cooperation with its customers.

ROBEL is certified according to EN ISO 9001 and approved to carry out revisions and investigations stipulated by law as well as the extension of rolling stock according to EBO § 32-33.

Our Products at a Glance

Whatever the challenge in track construction, ROBEL has the solution. The new catalogue provides you with a swift overview of the product portfolio of our hand guided machines. ROBEL work vehicles and special equipment (such as the Mobile Maintenance Unit) are attended to in a separate catalogue.

New Layout – Your Benefit:

- The guidance system at the brim of the catalogue groups products according to their field of application (drilling, wrenching, cutting, etc.)
- More room for extensive technical information
- Complete list of accessories for each machine

Always up to date with ROBEL.com and ROBEL.tv

Our website and our TV portal keep you constantly informed about new developments in our product range.

Our sales team in Freilassing as well as our representatives worldwide are at your full disposal for any questions that might arise.

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

ITS BENEFITS. YOUR BENEFITS.

Compact & practical

- Battery packs, charger and machines can be combined in any way
- LED light provides optimum illumination of the work area

Quiet & ergonomic

- Low noise emissions in line with noise protection regulations for urban areas
- Low vibration

Zero emissions & clean

- No exhaust gases, unpleasant smells or pollution

Maintenance-free & cost-efficient

- Maintenance-free motor and battery
- Machine is ready to use straight away

TECHNICAL SPECIFICATIONS

	BATTERY	CHARGER
Output		250 W
Charging period		approx. 3 - 4 hours
Voltage	43 V	primary 100 - 240 V secondary 36 - 49.8 V
Battery capacity	12.9 Ah	
Energy content	557 Wh	
Dimensions (L x W x H)	325 x 140 x 150 mm	340 x 200 x 140 mm
Weight	~5.6 kg	~3.5 kg

DRILLING



RODRILL

Battery Powered Rail Drilling Machine

For drilling flat bottom and grooved rails, also on free rail ends and in switch areas.

- Robust spiral drill technology
- Quick-clamping device
- Automatic drill feed
- Fast feed and return of drill bit
- Drill yoke with quick-clamping device and anti-twist fishing surface clamping template for three rail types S49, S54, UIC60
- Automatic height adjustment of drill, even for worn rails
- Indicator for bore centre in longitudinal rail direction
- Container for drilling fluid



TECHNICAL SPECIFICATIONS

	RODRILL P4	RODRILL E
Drive	air-cooled 4-stroke petrol engine	electric motor
Type	Honda GXV 160	400 V, 50 Hz
Output	3.6 kW at 3000 rpm	2.7 kW at 2850 rpm
Max. drill spindle speed	62 rpm	59 rpm
Drilling time (automatic feed)	approx. 90 s	
Drill mounting of drill spindle	Morse taper MK4	
Max. drill diameter at a rail web strength of 1000 N/mm	40 mm	
Smallest distance between rail end and drill hole	40 mm	
Smallest distance between rail heads in switch areas	55 mm	
Dimensions (L x W x H)	920 x 560 x 540 mm	
Total weight	~66 kg	~68 kg

ACCESSORIES

Spiral drill bits 95.02/HSS

For drilling alloyed and unalloyed steel up to approx. 900 N/mm²

- of high speed steel (HSS)
- with Morse taper shank MT2/MT3/MT4

With MT2

9002501501	dia. 17 mm
9002501502	dia. 18 mm
9002501563	dia. 19 mm
9002501575	dia. 20 mm
9002501599	dia. 21 mm
9002501506	dia. 22 mm
9002501576	dia. 23 mm

With MT3

9002501215	dia. 24 mm
9002501507	dia. 25 mm
9002501508	dia. 26 mm
9002501548	dia. 27 mm
9002501510	dia. 28 mm
9002501512	dia. 29 mm
9002501513	dia. 30 mm
9002501549	dia. 31 mm



With MT4

9002501515	dia. 32 mm
9002501516	dia. 33 mm
9002501518	dia. 34 mm
9002501605	dia. 35 mm
9002501606	dia. 36 mm
9002501519	dia. 38 mm

Spiral drills 95.02/HSS/E

For drilling hard to cut materials at high thermal loading. Particularly suited for drilling rust- and acid-resistant steels (V2A, V4A, etc.), high chrome alloyed and heat-resistant steels, steel and cast steel up to at least ~1100 N/mm² tensile strength. About 5-fold longer lifetime compared to HSS quality with steel of approx. 900 N/mm².

- of cobalt alloyed high speed steel (HSS/E)
- with Morse taper shank MT2/MT3/MT4
- surface specially treated so less tendency to weld on, plus improved chip clearance.

With MT2

9002501503	dia. 18 mm
9002501591	dia. 20 mm
9002501505	dia. 21 mm
9002501601	dia. 22 mm

ACCESSORIES

With MT3

9002501592	dia. 24 mm
9002501509	dia. 26 mm
9002501511	dia. 28 mm
9002501604	dia. 29 mm
9002501514	dia. 30 mm

With MT4

9002501199	dia. 32 mm
9002501517	dia. 33 mm
9002501593	dia. 34 mm

9894024422	Rail profile template Included in machine price for S49, S54 and UIC 60 rails.
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9002501198	Reducing sleeve Morse taper MT 4/3 for drill bit diameters 23.5 mm to 31.5 mm
9002501197	Reducing sleeve Morse taper MT 4/2 for drill bit diameters 14.5 mm to 23 mm
9002501196	Reducing sleeve Morse taper MT4/1 for drill bit diameters under 14 mm

For other rail sections upon request, please state the precise dimensions.

Multi-hole drilling templates

For drilling holes with a precise spacing (<0.2 mm), e.g. for insulated joints.

8001035010	Multi-hole drilling template incl. track panel template, drill guide and mandrel for S 49 and S 54 rails with drilling hole distance from rail end 70 mm + 165 mm
8001035012	Multi-hole drilling template for UIC 60 rail, otherwise as above

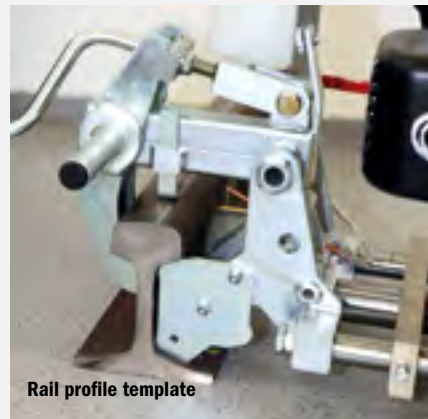
For other rail sections upon request, please state the precise dimensions.

9894021035	Transport and storage box, wooden, with lockable lid and carrying handles
9002501016	Drift

Rail profile templates

8940264422	UIC/S49
8940261114	R50/R65
8940264164	UIC/S49
8940264197	RI60/R50
8940261131	RI59N=RI60/S49

9001511027	Coolant concentrate
9001511033	Antifreeze



Rail profile template



Reducing sleeve



Multi-hole drilling template

RODRILL Rail Drilling Machine

10.40

Efficient drilling of rail profiles in the signal technology and railway construction.

ITS BENEFITS. YOUR BENEFITS.

Efficiency and mobility

- Drilling time about 30 – 60 seconds, depending on rail thickness and execution
- Coolant reservoir with pressure pump
- Coolant flows through drill spindle and drill bit

Easy handling

- One-man operation
- Manual feed



TECHNICAL SPECIFICATIONS	RODRILL P4 light	RODRILL E light	RODRILL B Light
	AIR-COOLED 4-STROKE	3-PHASE ELECTRIC MOTOR	10.20 RECHARGEABLE BATTERY
	PETROL ENGINE		
Type	HONDA-GX35	400 V/50 Hz	1600 W
Output	1 kW at 7000 rpm	0.55 kW at 2800 rpm	Number of drillings: 65 at Ø 16 mm/ 35 at Ø 32 mm
Max. drill spindle speed	300 rpm	217 rpm	300 rpm
Max. drill diameter for rail web			
tensile strength 900 N/mm ²	38 mm	38 mm	38 mm
Rail spacing	350 mm	350 mm	350 mm
Dimensions (L x W x H)	500 x 310 x 520 mm	500 x 310 x 520 mm	550 x 210 x 370 mm
Weight	~19 kg	~21 kg	~21.8 kg; Weight battery ~5.6 kg

More information on page 7.

ACCESSORIES

Equipment for drilling holes in flat bottom rails

Rail profile templates

Two items each per rail section are required

8204050100	for S49/S54/UIC60
8204050110	for 115/119/132/136LB
8204050120	for R65/R50
8204050130	for U33/U50
8204050140	for UIC60/U52
8204050190	for BV50
8204050200	for SJ 43
8204050210	for UIC54/UIC54E
8204050230	for U54
8204050240	for U69
8204050250	for 53KG Australia
8204050270	for 60KG Australia
8204050280	for 31.75 kg Greece
8204050290	for UIC60/U50 France
8204050300	for EST46/U55
8204050310	for SBB I
8204050320	for S40
8204050330	for VST36
8204050340	for PLM48LP

8204050350	for S33, drilling height 57 mm
8204050360	for NP46, drilling height 62.25 mm
8204050370	for U33/PLM48LP
8204050400	for 100 RA
8204050410	for Xa
8204050420	for XXIVa
8204050470	for R43
8204050480	for UST36/dr. height 56 mm
8204050510	for 80LB/dr. height 55.6 mm
8204050520	for 100LB/dr. height 63.5 mm
8204050530	for 20KG/dr. height 45 mm



Rail profile template

ACCESSORIES

8204050540	for Form A dr. height 59.5mm
8204050550	for S52 dr. height 80.5 mm
8204050570	for AS41KG dr. height 60.3 mm
8204050580	for AS50KG dr. height 67mm
8204050630	for 50T Belgium
8204050650	for AS47KG
8204050720	for 57 kg/m dr. height 70mm
8204050730	for 60 kg/m dr. height 70mm
8204050740	for 48 kg/m dr. height 66mm
8204050750	for 48+57 kg/m South Africa
8204050760	for 57+60 kg/m South Africa
Other diameters available upon request.	

For grooved rails

(only with clamping device 9801040089)

8204050150	RI60/DH 75 mm/outside
8204050160	RI60/DH 75 mm/grooved side dr. height
8204050170	RI60/RI 59 outside, DH 73 mm
8204050180	RI60/RI59 grooved side, DH 73 mm
8204050260	for PH 37/DH 75 mm/outside + 2x thrust washer 9801040068
8204050380	for RI55N of outside
8204050390	for RI55N of grooved side
8204050430	for PH37A of outside, DH=71mm + 2x thrust washer 9801040068
8204050490	for NP4aM/DH 82 mm/outside + 2x thrust washer 9801040068
8204050500	for G51, DH 53 mm
8204050590	for NT1/DH 77 mm/outside
8204050600	for NT1/DH 77 mm/inside
8204050660	for PH37 gauge bar
Other diameters available upon request.	

For conductor rails and small grooved rails

(use only with clamping device 8204100004)

8204050221	for STR40 and ASS5100
8204050440	for S20
8204050450	for 20 kg/m customer Altiservice
8204050460	for 14.5 kg/m customer Altiservice
8204050610	for 81LB (40.31 kg/m)
8204050620	for 30 kg/m South Africa
8204050640	for AS31KG
8204050680	for VST C DH 50 mm
8204050690	for 70LB ASCE DH 52 mm
8204050700	for 60LB ASCE DH 48.4 mm
8204050710	for S30, DH 48.25 mm
Other diameters available upon request.	

Equipment for drilling holes in grooved rails

9801040089	Quick-clamping device for grooved rails up to RI60
9801040090	Quick-clamping device for high grooved rails (greater than RI60, e.g. RI210/95+80/80a)
9801040068	2 additional thrust washers
8204100004	Clamping arm for conductor rail Device to be fitted to quick-clamping device for flat bottom rails for use with conductor rails
9002501655	Ejector pin/cooling pin, long, for adapter 8203550100
8203550100	Adapter, extension from 1 inch to 2 inches

To achieve good drilling results and optimum life of the drill bits,
please do not forget the coolant pin!

9002501646	Ejector pin/cooling pin for core drill bits, dimension 6.35 x 77 mm for core drilling without adapter
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Core drill 95.41-Asp for flat bottom rails, With 3-cut tooth geometry

Cobalt alloy high speed steel on a particle metallurgy
basis with the highest purity and ductility for optimum cutting pro-
perties and lifespan. With 19 mm Weldon shank, short variant,
cutting depth 25 mm. Optimal drilling performance for rail web
tensile strength up to 900 N/mm².

9002501649	dia. 16 mm
9002501651	dia. 17 mm
9002501650	dia. 18 mm
9002501657	dia. 19 mm
9002501662	dia. 22 mm
9002501675	dia. 23 mm
9002501647	dia. 24 mm
9002501676	dia. 25 mm
9002501658	dia. 26 mm
9002501648	dia. 27 mm
9002501659	dia. 27.5 mm
9002501652	dia. 28 mm
9002501667	dia. 29 mm
9002501642	dia. 30 mm
9002501680	dia. 31 mm
9002501643	dia. 32 mm
9002501654	dia. 33 mm
9002501653	dia. 34 mm
9002501663	dia. 36 mm
9002501661	dia. 38 mm
Other diameters available upon request.	



Quick-clamping device for grooved rail



Quick-clamping device for grooved rail

ACCESSORIES

Adapter for spiral drill bits

For use with the aforementioned spiral drill bits. Adapter with 19 mm Weldon shank and drill bit seat appropriate to the drill bit diameter used. Permanent coolant supply

9820350140	dia. 7.5 mm
9820350110	dia. 8 mm
9820350120	dia. 10-12 mm
9820350130	dia. 13-15 mm

Twist drill

Twist drills of HSS/E quality (cobalt alloyed) for drilling rails of maximum strength. Especially for the production of electric rail contacts, earthing bridges and earthing connectors. Drill is equipped with mounting shaft and permanent coolant supply. A special adapter (see below) is needed for operation.

9820350240	Ø 7,5 mm
9820350200	Ø 8 mm
9820350210	Ø 10 mm
9820350260	Ø 12 mm
9820350220	Ø 13 mm
9820350250	Ø 13,5 mm
9820350230	Ø 15 mm

Other diameters available upon request.

Multi-hole drilling templates

Depending on the design, the template is placed at the rail end or on the continuous section of rail. Precise drilling intervals are achieved by simply inserting the drilling machine into the distance blocks. Multi-hole drilling template for 2 holes from the rail end, complete, comprising 1 clamp, 1 drilling template with 2 distance blocks and 1 rail end stop.

8204050004	for SBBI/SBBIV/66/200
8204050006	for EST46/67.5/140
8204050007	for U55/U33/57.5/160
8204050008	for U50/60/170
8204050009	for PLM48LP/65/120

Multi-hole drilling template for 3 holes from the rail end

Complete, comprising 2 clamps, 1 drilling template with 3 distance blocks and 1 rail end stop

8204050005	for UIC60/U50/60/170/170
8204050010	for S33
8204050026	for R 50

Multi-hole drilling template for 4 holes in a continuous section of rail

Complete, comprising 2 clamps, 1 drilling template with 4 distance blocks. Cutting width of 4 mm is taken into account.

8204050002	for UIC60/ISOL./Reinforced) 70/165/4 mm cutting width
8204050003	for UNI50/UNI60/ISOL/ Reinforced/6 mm cutting width

Multi-hole drilling template for 6 holes in a continuous section of rail

Complete, comprising 2 clamps, 1 drilling template with 6 distance blocks. Cutting width of 4 mm is taken into account.

8204050025	for S49
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For other rail sections, please enclose a drawing or provide precise details of the dimensions/cutting width required (preferably in digital format).

9801040004	Aluminium transport and storage box for holding and safely transporting the machine, coolant reservoir, collecting tray, drill bits and coolant. Fitted with lockable lid and carrying handles.
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9801040005	Aluminium coolant and swarf collecting tray
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9001511027	Coolant concentrate BC25125 5 litres, mixing ratio concentrate:water = 1:12
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9001511033	Antifreeze, concentrate, 5 litres, mixing ratio e.g. -15 degrees Centigrade:antifreeze:water = 2:3
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Adapter and 13 mm spiral drill bit



Drill bit, adapter and coolant ejector pin



Multi-hole drilling template for 2 or 3 holes



Multi-hole drilling template for 4 holes



Transport case

For drilling holes in wooden sleepers

ITS BENEFITS. YOUR BENEFITS.

Compact and powerful

- Light construction and easy to handle
- Engine speed controlled by hand throttle lever

Safe and ergonomical

- Highest possible safety due to centrifugal clutch
- Userfriendly application due to machine height
- Replaceable chuck for drill bits up to 16 mm shank diameter
- Drilling depth with depth stop and drill sleeve
- Optional: combined depth stop with fixed drill sleeve



TECHNICAL SPECIFICATIONS

ROBORE P4

Drive	air-cooled 4-stroke petrol engine
Type	Dolmar MS 4300
Output	1.5 kW at 7500 rpm
max. drill spindle speed	950 rpm
max. drill diameter	22 mm
adjustable drilling depth	100 - 180 mm
Dimensions without fixed drill sleeve (L x B x H)	420 x 500 x 800 mm
Dimensions with fixed drill sleeve (L x B x H)	420 x 500 x 1070 mm
Total weight	~13.3 kg

ACCESSORIES

Sleeper drill bits

Automatic feed by screw point, made of tool steel, Lewis profile, single-blade without taper tap, length 245 mm, cylindrical shank of dia. 12 mm

9002501535	dia. 13 mm
9002501536	dia. 14 mm
9002501537	dia. 15 mm
9002501550	dia. 16 mm
9002501538	dia. 17 mm
9002501539	dia. 18 mm
9002501541	dia. 20 mm

Other diameters available upon request.



ROBORE Sleeper Drilling Machine

11.64

For drilling holes in wooden sleepers

- Powerful & accurate guidance of drill bit
- Drive via a heavy-duty narrow V-belt with self-tensioning device
- Simple operation
- Drill feed via wrench point and return spring
- Continuously adjustable drilling depth
- Drill spindle adjustable for angled holes (max. 6°)
- Quick-release chuck for drill bits with cylindrical shank up to 16 mm
- With drill sleeve
- Hub flange and replaceable drill guide for centred drilling through baseplate holes
- Rail running gear with insulated flanged wheels
- Plug-in outrigger with insulated castor



TECHNICAL SPECIFICATIONS

ROBORE P4

ROBORE E

Drive	air-cooled 4-stroke petrol engine	electric motor, 3-phase
Type	ROBEL 190	400 V/50 Hz
Output	4.9 kW at 4000 rpm	2.7 kW at 2850 rpm
Max. drill spindle speed	1200 rpm	950 rpm
Max. drill diameter	22 mm	
Max. drilling depth	180 mm	
Max. distance of drill spindle from rail centre	375 mm	
Max. capacity of chuck	16 mm	
Normal design suitable for:		
Rail height from/to	90/180 mm	
Head width up to	75 mm	
Gauge	1435 mm; Other gauges on request.	
Dimensions (L x W x H)	1000 x 400 x 880 mm	
Total weight	~63 kg	~66 kg

ACCESSORIES

Sleeper drill bits

Automatic feed by screw point, made of tool steel, Lewis profile, single-blade without taper tap, length 285 mm, cylindrical shank of dia. 13.8 mm

- 9002501707 dia. 16 mm
- 9002501708 dia. 17 mm
- 9002501709 dia. 18 mm

Other gauges available upon request.

- 8818930004 manual lever activation



Sleeper drill bit dia. 18 mm

CUTTING

A close-up photograph of a worker in blue work clothes and gloves using a red Husqvarna 3122K chainsaw to cut a metal rail. The worker is positioned on the right side of the frame, with their hands on the saw's handles. The chainsaw is yellow and red, with the Husqvarna logo and model number clearly visible. The rail is being cut horizontally, and a large amount of bright sparks is being ejected from the cut. The background shows a concrete structure and some debris.

ROCUT

Rail Cutter



The innovation for all sawing requirements in new construction and maintenance.

ITS BENEFITS. YOUR BENEFITS.

Patented 4-roller technology

- Precise and fast cutting of the rail, due to stabile machine frame
- long life cycle thanks to reduced band twist

Efficient and ergonomic operation

- Easy and quick band replacement
- Petrol, electric and battery version

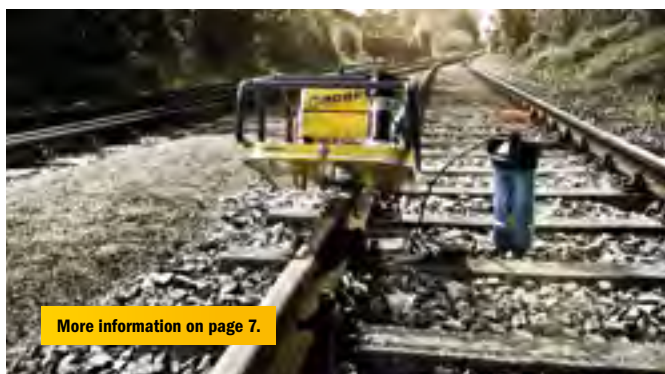
Flexible use

- Silent and low vibration operating
- Work with all types of rail, irrespective of degree of wear

Protection for man and machine

- Non-sparking work for operator safety
- Cold saw cut for stress free rail cutting, to preserve track quality

TECHNICAL SPECIFICATIONS	ROSAW P4	ROSAW E
	4-STROKE PETROL ENGINE	ELECTRIC MOTOR
Type	Honda GX35	110 V/50 Hz; 230 V/50 Hz; 400 V/50 Hz
Output	1.0 kW	0.75 kW..
Cutting speed	72 m/min	72 m/min
Cutting time	~2 min	~2 min
Long band service life	~25 Cuts	~25 Cuts
Spindle feed	manual	manual
Dimensions (L x W x H)	815 x 590 x 550 mm	815 x 590 x 550 mm
Weight	~41.5 kg	~49.9 kg



More information on page 7.

ROSAW B

BATTERY

Output	1.6 kW
Cutting speed	72 m/min
Cutting time	~2 min
Long band service life	~25 Cuts
Battery power	~20 Cuts
Dimensions (L x W x H)	815 x 590 x 550 mm
Weight (without battery)	~39.5 kg
Battery	~5.6 kg



ACCESSORIES

9801272008	Saw blade for 12.72, 2195 x 27 x 0,9 mm
9001511027	Coolant concentrate Bc25125, 5 litres, mixing ratio of concentrate : water = 1:50
9801040005	Aluminium coolant and swarf collecting tray
9800127006	5-litre pressure tank with bayonet coupler
9008120317	Extension cable 10 m (only for 230V version)

Only for 12.20

7806800001	Spare battery
7806850001	Charger
	Charging period approx. 4 hours
	Dimensions ~340 x 200 x 140 mm
	Weight ~3,5 kg
	Voltage, primary - 90/220 V
	Voltage secondary - 44/60 V
	Power 300 W



For fast and economical cutting of maximum strength rails

- Short cutting times, e.g. 1 min. possible for rail profile 49E1
- The cutter can be clamped in such a way that sparks consistently fly downwards and cutting discs are used in an optimum manner.
- Cutting also possible using articulated arm
- Sturdy, light-weight aluminium guide frame with articulated arm
- Quick clamping device for S49 (49E1), S54 (54E3, UIC60 (60E1) and RI60 (60R1). Other rail profiles available upon request.
- With kerf indicator for precise determination of the cutting point.
- The cutting method from above and at an angle downwards leads to direct weight relief for the operator.
- Easy starting of the motors with Smart-Start decompression equipment.
- Optimum filter effect due to air injection technology, fine filter and impregnated pre-filter
- Centrifugal clutch as integrated safety feature
- Spark protection for cutting discs – pre-tensioned and continuously adjustable
- Adapter for cutting discs with 1 inch hole
- Accessibility – V-belt tension without disassembly of casing
- Electronic ignition, sealed against dust and humidity

TECHNICAL SPECIFICATIONS	ROCUT P2 350	ROCUT P2 400
Drive	air-cooled 2-stroke petrol engine	air-cooled 2-stroke petrol engine
Type	Husqvarna 3122K	Husqvarna K1260 Rail
Output	5.8 kW at 9750 rpm	5.8 kW at 9500 rpm
Cutting disc diameter	350 mm	400 mm
Max. cutting disc speed	5400 rpm	4700 rpm
Max. permissible circumferential speed	100 m/s	100 m/s
Cutting rate about	1 min/cut	about 1 min/cut
49E1	up to 8 cuts/disc	up to 10 cuts/disc
60E1	up to 6 cuts/disc	up to 8 cuts/disc
Guide frame	~8 kg	~5.5 kg
Motor cutter	~17 kg	~15.6 kg
Cutting disc	~0.8 kg	~1.3 kg
Total weight	~25.8 kg	~22.4 kg
Dimensions (L x W x H)	800 x 400 x 400 mm	900 x 250 x 480 mm

ACCESSORIES

Cutting discs

- 9002000309 dia. 350 x 4 x 22.2 mm (TY)
- 9002000308 dia. 350 x 4 x 22.2 mm (KL)
- 9002000300 dia. 350 x 4 x 25.4 mm (TY) 1" holder
- 9002000436 dia. 350 x 4 x 25.4 mm (KL) 1" holder
- 9002000304 for aluminium, dia. 350 x 4 x 22.2 mm (TY)
- 9002000321 for aluminium, dia. 350 x 4 x 25.4 mm (TY) 1" holder
- 9002000911 dia. 400 mm x 4 mm x 25.4 mm



Cutting disc
dia. 350 mm x 4 mm x 22.2 mm (TY)

- 8001381001 Safety Blocking Device ROBEL 13.81
For cutting rails under compressive stress,
incl. 1 pair of wedges
- 8001381002 Spare wedges, 1 pair 13.81/size 11



Safety blocking wedge device 13.81

- 8709900001 Steel transport and storage box, with lockable lid
and two carrying handles, with holder for 10 cutting
discs, dimensions 900 x 450 x 450 mm (L x W x H)

For economically efficient cutting of maximum strength rails.

- Cutting of rails in one step using the alloy swivel guide arm
- A spring on the hinged arm provides for optimum balancing of the load
- With the integrated kerf indicator the device can be fixed precisely at the cutting point of the rail.
- Easy start-up due to Smart Start decompression equipment
- Optimum filter effect due to air injection technology, fine filter and impregnated pre-filter
- Electronic speed limiter
- Centrifugal clutch
- Sparks are redirected by the adjustable hood
- Sturdy, light-weight aluminium guide frame with articulated arm and quick-clamping device



TECHNICAL SPECIFICATIONS	ROCUT P2 Swiv 300	ROCUT P2 Swiv 350	ROCUT E Swiv 300
Drive	air-cooled 2-stroke petrol engine		electric motor, three-phase (ROBEL 13.80)
Type	Husqvarna 3122 K		400 V, 50 Hz
Output	5.8 kW at 9750 rpm		2.7 kW at 2850 rpm
Cutting disc diameter	300 mm	350 mm	300 mm
Max. cutting disc speed	5100 rpm	5100 rpm	3900 rpm
Max. permissible circumferential speed	100 m/s	100 m/s	100 m/s
Cutting rate about	~1 min/cut about	~1 min/cut	~2 min/cut
49E1	up to 6 cuts/disc	up to 8 cuts/disc	up to 6 cuts/disc
60E1	up to 4 cuts/disc	up to 6 cuts/disc	up to 4 cuts/disc
Guide frame	~11.6 kg	~11.6 kg	~12 kg
Motor cutter	~17 kg	~17.8 kg	~31 kg
Cutting disc	~0.5 kg	~0.8 kg	~0.5 kg
Total weight	~29.1 kg	~30.2 kg	~43.5 kg
Dimensions (L x W x H)	675 x 360 x 380 mm		650 x 350 x 380 mm

ACCESSORIES

Cutting discs

- 9002000307 dia. 300 mm x 3.5 x 22.2 (KL)
 9002000302 dia. 300 mm x 3.5 mm x 25.4 mm, (KL) 1" holder
 9002000348 for stone, dia. 300 x 3.5 x 22.2 mm, max. circumferential speed 80 m/s (corresponds to 5100 rpm)
 9002000309 dia. 350 mm x 4 mm x 22.2 mm (TY)
 9002000308 dia. 350 mm x 4 mm x 22.2 mm (KL)
 9002000300 dia. 350 mm x 4 mm x 25.4 mm (TY) 1" holder
 9002000436 dia. 350 mm x 4 mm x 25.4 mm (KL) 1" holder
 9002000304 for aluminium, dia. 350mm x 4mm x 22.2mm(TY)
 9002000321 for aluminium, dia. 350mm x 4mm x 25.4mm(TY) 1" holder

- 8001380010 Clamping device for grooved rails with screw; Quick release clamp when using the cutter for grooved rails up to RI 60 (max. head width 130 mm)
 80013800020 Guide frame assembly for grooved rails
 8001381001 Safety Blocking Device ROBEL 13.81 for cutting rails under compressive stress, incl. 1 pair of wedges
 8001381002 Spare wedges, 1 pair 13.81/size 11
 80013844004 Bogie 13.84 for 13.86 (with cutting disc dia. 300 mm)
 8399900001 Steel sheet transport and storage case with lockable lid and two carrying handles, for machines with petrol engine

GRINDING



ROGRIND

Rail Head Grinding Machine



For derusting the rail web for a continuous current flow of the flash welder or to prepare an insulated joint

- Grinding angle can be set precisely depending on the rail
- Profile grinding wheel with rotatable protective hood
- Transverse travelling gear for easy movement and positioning of the machine
- Rollers made of insulated material

TECHNICAL SPECIFICATIONS	ROGRIND P4 Web	ROGRIND E Web
Drive	4-stroke petrol engine	Electric motor 400 V/50 Hz
Type	HONDA GX 270	
Output	6.3 kW at 3600 rpm	4 kW/50 Hz at 2900 rpm
Grinding disc speed	4500 rpm	3600 rpm
Profile grinding wheel, for rails from S49		
Outside diameter	135 mm	
Inside diameter (holder)	25.4 mm (1")	
Height	90 mm	
Dimensions (L x W x H)		
Machine	1800 x 600 x 1100 mm	
Transverse travelling gear	1850 x 530 x 200 mm	
Weight, transverse travelling gear	~25 kg	~25 kg
Weight, machine	~95 kg	~98 kg

ACCESSORIES

Profile grinding wheels

- 9898081080 for rail sections S49 to R65,
135 x 55 x 90/50/25.4
- 9002000556 for rail sections smaller than S49,
135 x 55 x 70 x 20 x 25.4
- 8988980001 Conversion kit for wire brush
- 8329910001 Ballast box (for transverse travelling gear)



Conversion kit for wire brush



Profile grinding wheel



For true-to-form and straight reprofiling of the rail head at weld joints as well as of built-up welded running surfaces

ITS BENEFITS. YOUR BENEFITS.

- Powerful 4-stroke petrol engine ROBEL 190 with diaphragm carburettor.
- 2 designs for right-hand and left-hand operation with adapted guide handle.
- Precise setting of cutting angle via a notched adjuster
- Due to the time saving and precise work, more profiling can be carried out in a given time.

- More safety for the operator due to the secured clamping which does not release with vibrations.

Applications

From urban areas to free track.

TECHNICAL SPECIFICATIONS	ROGRIND P4 1.0	ROGRIND P2 1.0	ROGRIND E 1.0
Drive	4-stroke petrol engine	2-stroke petrol engine	Electric motor, 3-phase
Type	ROBEL 190	Minsel	400 V, 50 Hz
Output	4.9 kW at 4000 rpm	4.9 kW at 4500 rpm	2.7 kW at 2850 rpm
Grinding disc speed	4400 rpm	4500 rpm	4250 rpm
Grinding disc with M20 central nut attachment			
Outside diameter	125 mm		
Inside diameter	55 mm		
Height	60 mm		
Max. permissible circumferential speed	50 m/s		
Roller spacing	1000 mm		
Grinding disc infeed, continuously adjustable	70 mm		
Dimensions (L x W x H)	1020 x 680 x 690 mm		
Total weight	~59 kg	~60 kg	~64 kg

ACCESSORIES

Adjustable guide handle for optimizing ergonomy

Cup wheels

- 9002000687 dia. 125 mm Central nut holder M20,
max. circumferential speed 50 m/s, 125 x 65,
grit size A12
- 9002000688 dia. 125 mm Screw attachment 4xM8,
max. circumferential speed
50 m/s 125 x 65, pitch circle dia. 90, grit size A12
- 9002000690 dia. 150 mm, Central nut holder M20,
max. circumferential speed
50 m/s, 150 x 65, grit size A14
- 9002000689 dia. 150 mm Screw attachment 4xM8,
max. circumferential speed
50 m/s, 150 x 65, pitch circle dia. 115, grit size A14
- 9878081000 Cup wheel dia. 90 mm conical, for frog noses and
switches, central nut holder M20 (also suitable for the
running surface of grooved rails), circumferential speed
max. 50 m/s, 90 x 65, grit size A14
- 9002000330 dia. 90 mm cylindrical for built-up welds, central nut
holder M20

- 8931002007 Centring nut, hardware for steel wire brush
- 9000200182 Steel wire brush (plaited) Steel wire brush e.g. for
derusting rails (do not use without centring nut)
- 8449900065 Guide frame, vibration-damped, in place of
standard part
- 8444150140 Spark safety hood, foldable, to catch flying sparks
- 8001344007 Multi-roller carrier, for corrugation grinding
- 8001344008 Outrigger compl. Gauge 1435 mm to the other rail,
insulated, with incline adjustment
- 9801344001 Transport box, wooden, with lockable lid and two
carrying handles
- 8448980001 Crane rail finishing set with 125 mm dia. cup wheel
- 8448980002 Crane rail finishing set with 150 mm dia. cup wheel
Only for 13.44 with ROBEL 190 motor
- 8449900035 Extra handle, located centrally on the fan housing of
the drive motor, improves the guidance and ergonomics
for all grinding tasks. Supplied as an assembly kit with
instructions. Simple installation using three screws.
- 8449900036 Air filter guard improves the supply of intake air
and results in a reduction of the amount of abrasive
dust. Supplied as an assembly kit with instructions.



Cup wheels



Centring nut and steel wire brush



Spark safety hood



Air filter guard



Extra handle

The universal machine for all grinding requirements in new construction and Maintenance of railways.

ITS BENEFITS. YOUR BENEFITS.

Flexible and easy

- Patented, modular rail guiding system for rails and switches
- Easy change of cup wheel, due to quicklock
- Wide range of use brings high economic efficiency and cost savings

Controlled and accurate

- Digital engine hour counter / tachometer
- Individual adjustable of the turning resistance on spindle handwheel
- Universal use for all common rail types, thanks to adjustable distance of guide wheel to rail

Individual

- Selection from Right-hand and Left-hand versions
- Adaptable to the operator
- Tilting handle mounted on the left or the right side of the machine, in working direction.



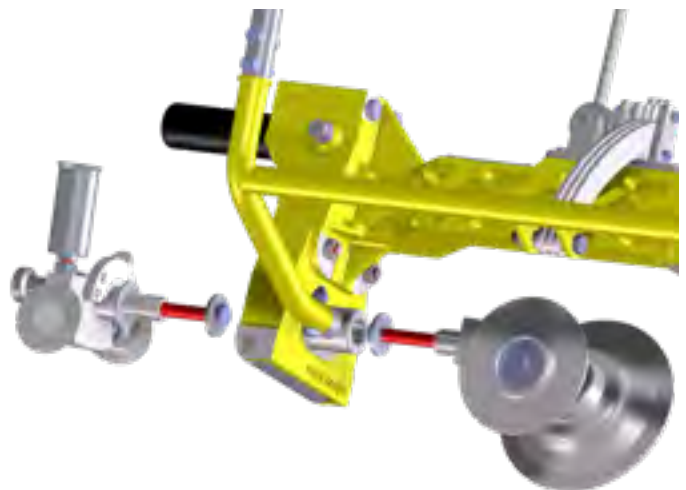
TECHNICAL SPECIFICATIONS	ROGRIND P4 2.0	ROGRIND P2 2.0	ROGRIND E 2.0
Drive	4-stroke petrol engine	2-stroke petrol engine	Electric motor, 3-phase
Type	ROBEL 190	Minsel M165	400 V, 50 Hz
Output	4.9 kW at 4200 rpm	4.9 kW at 4500 rpm	2.7 kW at 2850 rpm
Roller spacing	1000 mm		
Depth adjustment of grinding spindle	continuously adjustable 0 – 70 mm		
Dimension (L x W x H)	1376 x 530 x 840 mm		
Total weight	59.5 kg		

Grinding wheels	for railhead width up to 75 mm	for railhead width up to 120 mm (optional)	cup wheel for frog grinding (optional)
Outside diameter	125 mm	150 mm	90 mm
Inside Diameter	56 mm	55 mm	55 mm
Height	65 mm	60 mm	65 mm
Permissible speed	7640 rpm	6350 rpm	10600 rpm



Left side handle

Right side handle



Patented, modular rail guiding system

ACCESSORIES

9002000687	dia. 125 mm Central nut holder M20, max. circumferential speed 50 m/s, 125 x 65, grit size A12	8931002007	Centring nut, hardware for steel wire brush
9002000690	dia. 150 mm, Central nut holder M20, max. circumferential speed 50 m/s, 150 x 65, grit size A14	9000200182	Steel wire brush (plaited) Steel wire brush e.g. for derusting rails (do not use without centring nut)
9878081000	Cup wheel dia. 90 mm conical, for frog noses and switches, central nut holder M20 (also suitable for the running surface of grooved rails), circumferential speed max. 50 m/s, 90 x 65, grit size A14	8444150140	Spark safety hood, foldable, to catch flying sparks
9002000330	dia. 90 mm cylindrical for built-up welds, central nut holder M20	8449900035	Extra handle, located centrally on the fan housing of the drive motor, improves the guidance and ergonomics for all grinding tasks. Supplied as an assembly kit with instructions. Simple installation using three screws.



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

ITS BENEFITS. 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 dead man's brake (optional)
 - during grinding due to depth stop (optional)
 - due to good visibility from both operating sides, also at night due to LED lighting (optional)
- Ergonomic operation
 - whilst standing upright
 - due to ideal positioning of the cup wheel with the rocker switch
 - and the hand wheel in optimum grinding position
 - Can be operated with left or right hand with optimum view of the grinding area

Applications

- For thermite and flash-butt welding
- Can be used with 125 mm, 150 mm and optionally 175 mm cup wheels, even for high rail profiles



TECHNICAL SPECIFICATIONS	ROGRIND P4 Head 1.0	ROGRIND E Head 1.0
Drive	4-stroke petrol engine	Electric motor
Type	Honda GX 270	3-phase motor
Output	6.3 kW at 3600 rpm	4 kW at 2850 rpm
Cup wheel	dia. 125 mm, also dia. 150 mm	dia 150 mm, also dia. 125 mm
Max. permissible circumferential speed	50 m/s	
Grinding disc speed	4200 rpm	4500 rpm
Grinding base/roller spacing	1000 mm	
Weight	~99.5 kg	~99.5 kg
Weight, outrigger	~28 kg	~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
Copy roller spacing	1000 mm	
Pivoting angle, copying carriage	92°	

ACCESSORIES

Cup wheels

- 9002000687 dia. 125 mm, central nut holder M20, max. circumferential speed 50 m/s, 125 x 65, grit size A12
- 9002000688 dia. 125 mm screw attachment 4xM8, max. circumferential speed 50 m/s, 125 x 65, pitch circle dia. 90, grit size A12
- 9002000690 dia. 150 mm, central nut holder M20, max. circumferential speed 50 m/s, 150 x 65, grit size A14
- 9002000689 dia. 150 mm screw attachment 4xM8, max. circumferential speed 50 m/s, 150 x 65, pitch circle dia. 115, grit size A14
- 9878081000 dia. 90 mm conical for frog noses and switches, central nut holder M20 (also suitable for the running surface of grooved rails), circumferential speed max. 50 m/s, 90 x 65, grit size A14
- 9002000330 dia. 90 mm, cylindrical for built-up welds, central nut holder M20, max. circumferential speed 50m/s, 90 x 65, grit size A14

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





ONE MACHINE. TWO MODULES.

Simply ergonomic high-frequency grinding.

ITS BENEFITS. YOUR BENEFITS.

For a better surface pattern of the rail

- Less working time thanks to consistently high grinding performance
- High grinding quality and unobstructed view of the grinding area due to compact and low vibration e-motor
- Finishing achieved with a fine-grinding method patented by ROBEL

Intelligent use of energy

- Energy conversion without a loss from e-motor onto grinding shaft/grinding wheel
- ROBEL Supercap in the Power pack: Excessive energy is collected and stored via the generator directly in compact electrolytic capacitors (Supercaps) and released during peak loads

Smart positioning, smooth grinding

- The grinding unit and the Power pack are two separate units. Transport is therefore easy and ergonomic.
- Effortless operation thanks to split up machine, weight of less than 60 kg each unit
- Comfortable handling of the machine due to O-handles with telescopic function and individual settings

More work safety, more efficiency

- Low hand/arm vibrations
- Optimum view onto the display in an ergonomic angle
- Integrated air guide carries dust and sparks down and outward
- Operator is exposed to significantly less exhaust gas, heat and noise

🔗 [More info on ROBEL.com](https://www.robels.com)

TECHNICAL SPECIFICATIONS	ROGRIND HF Head	ROPOWER HB
Drive	Electric motor	air-cooled-4-stroke petrol
Type	Brushless DC motor	HONDA GX200
Continuous output	3 kW	3.7 kW at 3600 rpm
Peak output	7 kW	
Circumferential speed	~50 m/s	
Cup wheel	150 mm	
Grinding disc speed	~5000 rpm	
Grinding base/roller spacing	1000 mm	
Depth adjustment of grinding spindle	electrical	
Dimensions (L x W x H)	1950 x 460 x 850 mm	
Without telescopic handles (L x B x H)	1750 x 410 x 850 mm	
Weight	~56.5 kg	~49.4 kg
Weight, outrigger	~8.5 kg	
Weight, connection cable	~5.0 kg	

For grinding of built-up welds on switch blades, crossing frogs, stock rails and check rails as well as for deburring rail heads and switches. Optionally also for grooved rails for trams.

Adjustment of grinding disc via ergonomically adjustable hand lever and hand wheels for precise guiding:

- Can be moved by 32 degrees to either side
- Height adjustment



ITS BENEFITS. YOUR BENEFITS.

High work quality & profitability

- Precise settings
- Particularly large work area
- Check rail guidance to bridge the clearance in the frog point area to ensure linear grinding.
- Greater stability due to double holder of the 4 insulated flange rollers (divided)

User-friendly

- Ergonomic guidance and operation of the machine
- Good view of the grinding area
- Frame can be divided for easier transport

Easy to maintain

- Power transferred via ribbed V-belt

TECHNICAL SPECIFICATIONS

	ROGRIND P4 Switch 1.0	ROGRIND E Switch 1.0
Drive	4-stroke petrol engine	electric motor, 3-phase
Type	HONDA GX 200	400 V, 50 Hz
Output	4.1 kW at 3800 rpm	3 kW at 2880 rpm
Grinding disc		
Outside diameter	260 mm	
Bore x thickness	120 mm x 25 mm	
Max. swivel range	32° in both directions	
Grinding disc speed	3500 rpm	3100 rpm
Dimensions (L x W x H)	2360 x 1200 x 930 mm	
Machine	~87.4 kg	~96.4 kg
Outrigger	~11 kg	~11 kg
Grinding disc	~2.6 kg	~2.6 kg
Total weight	~101 kg	~110 kg

ACCESSORIES

Grinding discs

- 9002000701 dia. 260 mm x 25 mm, holder dia. 120 mm, circumferential speed max. 50 m/s, fabric reinforced for flat bottom rails
- 9002000463 dia. 254 x 40 x dia. 76.2 mm
- 9002000439 dia. 255 x 32 x dia. 25.4 mm

Grinding disc holders

- 8890500001 dia. 254 x 40 x dia. 76.2 mm

Flange extension

- 9801361111 Set from 1435 mm to 1600 mm
- 9801361112 Set from 1435 mm to 1520 mm
- 9801361113 Set from 1435 mm to 1674 mm
- 9801361106 Guide frame with guide rollers for gauge reduction from 1435 mm to 900 mm
- 8898980001 Spark safety set for rollers
- 9000100195 Tarpaulin

- 8899910001 Machine centring in switch area

Additional equipment for grinding grooved rails

- 8894150004 Conversion kit for grinding disc dia. 260 x 15 mm
- 8001361007 Roller set (4 off) with flange (when retrofitting)

Grinding disc

- 9002000654 dia. 260 mm x 15 mm, holder dia. 120 mm, circumferential speed max. 50 m/s, fabric reinforced for grooved rails



Grinding disc

Used in the production of thermit welding of rail joints.

ITS BENEFITS. YOUR BENEFITS.

Reliable and ergonomic use

- Durability thanks to robust construction with fine grained steel
- Easy handling due to ergonomic handles
- Reduced grinding of sheared weld, due to individual adjustment of shearing height
- Reduced wear of shear blades, thanks to adjustable stop screws
- Precise working result due to 4-fold downholder and double longitudinal guiding

Easy and quick removal of welding beads

- Individual adapted shear blades are pressed together by double-acting hydraulic cylinders
- No hot cracks on the weld, due to coincident shear blade attack from both sides



TECHNICAL SPECIFICATIONS ROTRIM

Dimensions (L x W x H)	
with hand pump	830 x 405 x 320 mm
without hand pump	830 x 355 x 215 mm (prepared for a hydraulic power pack)
Weight	
with hand pump	~46 kg
without hand pump	~39.5 kg (prepared for a hydraulic power pack)
Shear blades	~3 kg
Shear force at max. operating pressure	
with hand pump	500 bar/200 kN
with hydraulic power pack	550 bar/220 kN
max. travel	160 mm
Filling capacity hydraulic oil	
with hand pump	Renolin MR 310/1.1 l
without hand pump	Renolin MR 310/0.6 l

HYDRAULIC POWER PACK ROPOWER HD

Type	air-cooled-4-stroke petrol engine HONDA GX200
Output	4.1 kW at 3600 rpm
Dimensions (L x W x H)	575 x 575 x 460 mm
Weight (without hydraulic houses)	~37.5 kg
Weight hydraulic houses	~3.8 kg
Hydraulic pressure max.	550 bar
Hydraulic oil	Renolin MR 310 /~3.5 l
Engine oil	SAE 15W-40/~0.6 l

ACCESSORIES

Shear blade sets

- 8859900001 for FORM B/S49/S54/UIC54E
- 9801410001 for FORM B/UIC60/UIC 54/R50/R65
- 8859900003 for FORM 132 LB



For the milling of switch diamonds and rails

ITS BENEFITS. YOUR BENEFITS.

Powerful & efficient

- Directed removal of material for all kinds of cracks and damages
- Even renewal of damaged sections without application of heat
- Compact design

Cost-efficiency

- Low repair costs due to
 - Saving of time in comparison to manual renewal
 - Optimal use of short possessions
 - Short mounting time
- Considerable reduction of costs due to renewal as opposed to replacement

User-friendly

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

For hardened rails limited suitable.

TECHNICAL SPECIFICATIONS

Drive	Rotary current motor 400 V
Power	2000 W
Quantity of metal removed from UIC 60 switch diamond	7 kg (Steel/h)
Operating time/milling machine at UIC 60 switch diamond	1 to 2 hours
Diameter of cutter	16/20 mm
Dimensions (L x W x H)	1000/400/500 mm
Weight of cutter head	41 kg
Weight without magnetic mounting	62 kg
Weight magnetic mounting	32 kg

STRESSING PULLING BENDING



ROPULL

Hydraulic Rail Pulling and Pushing Device

For the bending of switch blades at switches

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

- For switch maintenance
- After accidents to enable immediate trafficability until the switch blades are replaced.
- To increase or decrease the radius of the switch gauge in the area of the switch blade.
- For all commonly used flat bottom rails.
- Application for lining and removal possible by one person.
- The unit can be moved easily on the rail.
- The high bending force of 250 kN allows all types of bending work on the switch blade.
- Quick-release coupling to connect hand pump or hydraulic power pack



TECHNICAL SPECIFICATIONS

ROBEND M Switch

Drive	Hand pump, two-stage
Operating pressure	max. 700 bar
Compressive force	max. 250 kN
Travel	max. 150 mm
Hydraulic oil synthetic	HLP 46 1.3 l
Dimensions (L x W x H)	930 x 125 x 500 mm
Weight	~74 kg

ACCESSORIES

Profile jaws

7260601010	for S49/S54, 1 set = 2 pieces
7260701010	for uic60, 1 set = 2 pieces
7260801010	for R65, 1 set = 2 pieces
7260551010	for A, 1 set = 2 pieces
7260501010	for BS113A, 1 set = 2 pieces

Other gauges on request.

8002228003	Pressure gauge mounting
8002228004	Wooden transport and storage box, with lockable lid and carrying handles



Profile jaws for rail section S49/S54



Pressure gauge mounting

For bending and lining flat bottom rails up to approx. 60 kg/m (in y-axis), and also optionally for grooved rails (see additional equipment)

- Alloy frame
- Replaceable rail claws
- Return of piston through spring load
- Easy operation in all work positions
- Optionally also available with pressure gauge



TECHNICAL SPECIFICATIONS

ROBEND Rail

Compressive force	550 kN
Piston travel	100 mm
Dimensions (L x W x H)	880 x 750 x 240 mm
Weight	~74 kg

ACCESSORIES

8002238015 Claws for grooved rails with steel pressure piece

Grooved rail profile blocks

Two profile blocks matching the chosen rail are required

8002238006	Distance for RI60
8002238016	Distance for RI56
8002238017	Distance for NT1
8002238018	Distance for NT 3
8002238019	Distance for RI59/RI59 N
8002238022	Distance for T62



Claw and pressure piece for grooved rail



Grooved rail profile block

For correcting a narrowed or widened gauge

ROGAUGE 1.50 Gauge Bar

- Can be fitted easily to the foot of the rail
- Adjustment via threaded spindle when in place
- Insulated from rail to rail
- For rails with a base width of 125 mm to 150 mm (e.g. S49/54 and UIC 60)
- Gauge 1435 mm



ROGAUGE Gauge Bar

- Not insulated from rail to rail
- Mounted by wrenching to the two grooved plates
- Adjustment when installed by means of a threaded spindle.
- Gauge 1435 mm



TECHNICAL SPECIFICATIONS

ROGAUGE Iso

ROGAUGE

Dimensions

1850 mm

1350 mm

Weight

~25 kg

~11 kg

For pulling rails in the ballast

- For rails S49, S54, UIC60 up to a rail length of 180 m, depending on the composition of the permanent way.
- Can be used for drilled and undrilled rails
- Does not cause impressions or deformations of the rail
- **ROSHOE S49, ROESHOE S54, ROESHOE UIC60**

Other rail pulling shoes available upon request.



TECHNICAL SPECIFICATIONS

ROSHOE

Dimensions (L x W x H)

350 x 195 x 280 mm

Weight

~38 kg

For pulling together or pushing apart 2 flat bottom rails in longitudinal direction

Standard design:

- 1 hydraulic cylinder, double-acting, with carrying handle
- 2 clamping heads

Drive: hydraulic power pack or hand pump, see 24.70



TECHNICAL SPECIFICATIONS

ROPULL HD

Max. tensile/compressive force	60 kN/80 kN
Piston travel	400 mm
Max. pressure in hydraulic system	100 bar
Dimensions (L x W x H)	
Clamping head S49	190 x 270 x 550 mm
Distance jaws	170 x 40 x 70 mm
Hydraulic cylinder	950 x 120 x 180 mm
Weight	
Basic unit	~77 kg
Hand pump see 8002412010	~7.6 kg
Power pack see 8127500001	~29 kg

ACCESSORIES

Distance jaws

Each device equipped with 2 x 2 pieces = 1 set

8002412013	set for UIC 60
8002412011	set form B for S49/S54/35.7/35 kg/Np46/As41
8002412012	set form C for UIC54E/UIC54/BS113A/AS53
8002412014	set for R65
8002412017	set for 115lb
8002412018	set for 136lb/132lb
8129900001	set for Bv50/As50
8129900002	set for Bs80a
8129900003	set for 50 kg
8129900004	set for 60 kg

Other distance jaws on request.



Distance jaw set for UIC60

8002412008	Extension 1100 mm for pulling for gaps of over 940 mm and up to 2000 mm
8002412016	Extension 800 mm
8002412010	Hydraulic hand pump including hose set <ul style="list-style-type: none"> • with high-pressure hoses, ~2000 mm long • with quick-release couplings, • max. pressure 100 bar (preset) • hydr. tank volume 1.3 l • precision drain valve
8127500001	Hydraulic system <ul style="list-style-type: none"> Driven by Briggs & Stratton 4-stroke engine, output 2.6 kW at 3000 rpm • Robust double pump, with automatic changeover from low pressure to high pressure stage • 4-way valve with pressure relief valve, fully mounted on unit • 2 connecting hoses with quick-release couplings • Hydraulic tank volume 5 l • Delivery rate 1.8/0.9 l • Max. pressure 100 bar (preset) • Low noise level (73 dBA)



Modular concept for positioning rails for welding work.

ITS BENEFITS. YOUR BENEFITS.

Flexibility due to selectable modular system

- Standard cylinder aluminum
- Standard cylinder steel
- Hollow piston cylinder
- Standard versions for optionally draw bar and/or threaded bar system
- 3rd rail modules for execution at conductor rails

Fast and structure gauge free installation and dismantling

- Safe and easy handling
- Low weight of individual parts
- Simple assembly, no hoist required
- Drive on rail when fitted is possible, depending on the situation

Hydraulic energy supply

- Dependent on order
- Two-stage pump with automatic changeover from low-pressure (fast feed) to high-pressure range
- Hydraulic power pack
- Pressure changing unit

USP Hollow piston cylinder

- High traveling way 200 mm
- Maximum safety due to forced guidance of the thread rods

TECHNICAL SPEC.	ROSTRESS HD Combi	ROSTRESS HD	ROSTRESS HD Combi	ROSTRESS HD
	STANDARD	HOLLOW PISTON CYLINDER	3 rd RAIL	RAIL REPLACEMENT
Tensile force	700 kN	700 kN	700 kN	700 kN
Compressive force	400 kN	/	400 kN	400 kN
Travel	steel 200 mm/alu. 380 mm	200 mm	380 mm	380 mm
Dimensions (L x W x H) in installed condition	2650 x 1120 x 375 mm	2500 x 1010 x 375 mm	3070 x 930 x 375 mm	17300 x 1180 x 375 mm
Drawbar				
Type	Standard	Thread rods	Standard/Horseshoe	Thread rods
Length	~1.50 m	Pieces of 2.5 m or 4 m		2500 mm/4000 mm components
Thread rods optionally combineable				
Weight				
Heaviest individual component	~33 kg	~33 kg	~33 kg	~33 kg
Hydraulic hand pump	~55 kg	~55 kg	~55 kg	~55 kg
Hydraulic power pack	~67 kg	~67 kg	~67 kg	~67 kg
Pressure changing unit	~15 kg	~15 kg	~15 kg	~15 kg
Obstructionless installation possible	yes	yes	no	yes

ACCESSORIES

- 8749910001 Piston rod guard (for standard-cylinder aluminum)
- 9802470050 Transport box
- 8748980001 Hand trolley for Hydraulic power pack
- 8748980002 toolbox for Hydraulic power pack

Power Units

- 8749910002 Hydraulic hand pump, for use with one unit
Two stage pump with automatic changeover from low-pressure (fast feed) to high-pressure (work cycle); 55 kg incl. hose set
- 8743010004 Hydraulic motor unit, with hand pump for one or two units
Two stage pump with automatic changeover from low-pressure (fast feed) to high-pressure (work cycle); 67 kg; 755 x 525 x 540 mm;
Hose set for one unit: 87478920004
Hose set for two units: 87478920004
- 8743051005V Pressure changing unit, for one unit if separate hydraulic hand pump (such as on 2 rail vehicle) is existing. 15 kg; 690 x 240 x 273 mm
Hose set for one unit: 8747910004

Hose sets

- 8747910004 From connecting hose to cylinders
(if hoses for hydraulic power pack presently)
- 8747920004 connecting hoses to hydraulic power pack
From connecting hose to cylinders

Supports (for obstructionless use at different rail profiles)

Suitable for following rail types:

- 8740450001 S48-U, UIC54
- 8740460001 NP46, UIC54, 48,5 Kg Griechenland, BS80A
- 8747900004 90RE, 136RE, 140RE, BV50
- 8747900005 115RE, 119RE, 132RE
- 8747900006 U50, U36
- 8747900007 S33, UIC54
- 8747900008 UIC60, S49, S54, AS47, AS50, AS53, AS60, R65, UNI60, UIC50 (50E4)
- 8747900009 NSB40kg



Trolley for hydraulic unit



Toolbox



Hydraulic hand pump



Transport box upon request



Rail supports for obstructionless use



Piston rod guard for standard cylinder aluminum



Drawbar 1,52 m for standard versions

For moving long-welded rails

Robust steel design with maintenance-free ball bearings

Other types

- For rails with max. base width of 170 mm or 230 mm
- with 50 mm bent side and base body inner dimension 170 mm or 220 mm


TECHNICAL SPECIFICATIONS
ROCARRY

Max. load	700 kg
Inside roller dimension	170 mm
Dimensions (L x W x H)	260 x 130 x 120 mm
Weight	~7.3 kg

ROLAX Rail De-Stressing Machine
26.01

To remove stresses from the rail by striking the rail head sides. The vibrations generated in this way destress the rail.

After removing the fasteners and fishplates, the rails should take up the length which corresponds to the current rail temperature. The machine works on both rails of the track simultaneously with two hammers. This removes stresses existing in the rail. At the same time, non-rail elements, such as rail pads, are loosened.


ITS BENEFITS. YOUR BENEFITS.
Precise & powerful due to

- Height-adjustable hammers which make it possible to set the contact point precisely
- Number of impacts continuously adjustable via gas activation: 45-60 impacts/min

User-friendly due to

- LED lighting on both sides which perfectly illuminates the work area
- Can be operated in both directions

Safe due to

- Easily lockable guard over hammer unit
- Engine can be started only if the guard is in place
- Dead man's brake on both sides
- Emergency stop push-button

Low maintenance requirement due to

- Centrifugal clutch

TECHNICAL SPECIFICATIONS
ROLAX P4

Air-cooled four-stroke engine	HONDA GX200
Output	at 3600 rpm 4.1 kW
Dimensions (L x W x H)	2660 x 1240 x 970 mm
Track gauge	1435 mm
Weight	~250 kg
Number of impacts	continuously adjustable via gas activation, 45 - 60 impacts per rail at an engine speed of 3000 - 3600 rpm



To heat up the rail to the required rail temperature, during the course of the rail neutralization prior to welding the ends of the rail.



ITS BENEFITS. YOUR BENEFITS.

Powerful and precise

- High heat output due to liquid gas removal system
- Precise positioning thanks to stepwise adjustment of the burner height

Safety for man and machine

- Integrated hose rupture protection system
- Metered gas supply during the ignition of the gas, achieved by valve at the heating unit

- Heat protection of the superstructure of the track, thanks to the possibility to adjust the height of the burner
- Ergonomics with height-adjustable and foldable handles
- Safety precaution through integrated fire extinguisher

Flexibility

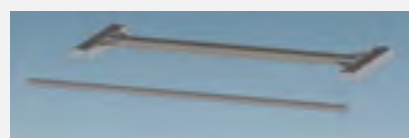
- Optional fail safe brake
- Optional Connecting beam for parallel use of two rail heaters

TECHNICAL SPECIFICATIONS	ROHEAT	ROHEAT
	STANDARD-VERSION	TWO-TANK-VERSION
Dimensions	3400 x 710 x 840mm	3400 x 710 x 840mm
Dimensions for transport	2300 x 590 x 880 mm	2300 x 590 x 880 mm
Weight without gas bottle	86 kg	89 kg
Gas bottle	1 propane tank	2 propane tanks
	33 kg	10.5 kg each

ACCESSORIES

Connecting beam for parallel use of two rail heaters

- 8668980001 Gauge 1000 mm
 8668980002 Gauge 1435 mm
 8668980003 Connection beam gauge 1000/1435mm



WRENCHING CLIPPING



ROMPACT

Battery Powered Impact Wrench

For tightening and loosening nuts and sleeper bolts.

- With 2-stroke engine which drives the impact wrench mechanism via a centrifugal clutch, a reduction and reversing gearbox.
- Stable, robust design
- Easy operation in all work positions
- No transfer of wrenching moment to operator
- 1 inch square drive to accept the corresponding sockets
- Rotates left/right
- Vibration-damped handles


TECHNICAL SPECIFICATIONS
ROMPACT P2 Portable

Drive	air-cooled 2-stroke petrol engine
Type	Dolmar HP 6400
Power	3.5 kW (4.8 hp)
Torque	up to 2000 Nm, depending on joint hardness
Dimensions (L x W x H)	670 x 450 x 300 mm
Weight	~23 kg
Weight of a socket	~1.5 kg

ACCESSORIES
SOCKETS
Hexagonal

8003008004	internal hex A/F 22
9002501208	A/F 27
9871033313	A/F 30
9871033309	hex 32
9002501223	A/F 34
9871033314	A/F 35
9871033311	A/F 36
9871033315	A/F 38
8098950100	A/F 39 Special 230 mm
9871033391	A/F 39 hex
9871033304	A/F 41 hex
9871033308	hex 42
9002501224	A/F 46

Rectangular

9871033317	rect. 18 x 26
9871033316	rect. 20 x 30
8003008006	rect. 20.5 x 24.5
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	Socket, sq. 24 x 24
Other sockets can be found on page 68.	



Socket, rect. 24 x 28 for rectangular, socket A/F 39 for hexagonal



SDS Plus chuck adapter

8099910001 SDS-Plus chuck adapter, to drill holes in sleepers

Sleeper drill bits

Max. drilling depth 150 mm with SDS-Plus chuck adapter

9002501808	dia. 14 mm
9002501809	dia. 16 mm
9002501810	dia. 18 mm
9002501811	dia. 20 mm
9002501812	dia. 22 mm

8003009006	Extension bar 180 mm/1" mounting
8003009005	Extension bar 330 mm/1" mounting
8003009007	Cardan joint 1" mounting
9909992145	O-ring, circlip to secure socket
9900070056	Dowel pin to secure socket
8003009008	Transport and storage box

For tightening and loosening nuts and sleeper bolts

ITS BENEFITS. YOUR BENEFITS.

Compact and robust

- Centrifugal clutch and change gear
- 1 inch square drive to accept the corresponding sockets
- Battery version 30.20 with 90° adjustable handle, particularly for wrenching brackets
- Immediate usage

Ergonomic and flexible

- Height adjustable handle with battery version 30.20
- Low vibration operation



TECHNICAL SPECIFICATIONS	ROMPACT P2	ROMPACT P2 Lowvibe	ROMPACT B
	STANDARD AIR-COOLED	LOW VIBRATION AIR-COOLED	BATTERY
	2-STROKE PETROL ENGINE	2-STROKE PETROL ENGINE	DC ELECTRICAL MOTOR
Type	without damping	with damping	without damping
Output	1.7 kW at 7120 rpm	1,7 kW at 7120 rpm	1600 W
Max. Torque	1800 Nm, depending on joint hardness	1800 Nm, depending on joint hardness	1800 Nm
			Number of tightening cycles: 500 (per 4 seconds)
Dimensions (L x W x H)	680 x 390 x 360 mm	700 x 390 x 360 mm	780 x 510 x 240 mm
Weight	~19.5 kg	~21.3 kg	~18.3 kg
Weight socket	~1.5 kg	~1.5 kg	~1.5 kg (Weight battery ~5.6 kg)

More information on page 7.

ACCESSORIES

Sockets

Hexagonal

8003008004	internal hex A/F 22
9002501208	A/F 27
9871033313	A/F 30
9871033309	hex 32
9002501223	A/F 34
9871033314	A/F 35
9871033311	A/F 36
9871033315	A/F 38
8098950100	A/F 39 Special 230 mm
9871033391	A/F 39 hex
9871033304	A/F 41 hex
9871033308	hex 42
9002501224	A/F 46

Rectangular

9871033317	rect. 18 x 26
9871033316	rect. 20 x 30
8003008006	rect. 20.5 x 24.5
9871033302	rect. 21 x 28
9871033305	rect. 30 x 22

Square

9871033303	sq. 19 x 19/17 x17
987103318	sq. 21 x 21
9871033306	sq. 22 x 22
9871033319	Socket, sq. 24 x 24

Other sockets can be found on page 68.



Socket, rect. 24 x 28 for rectangular, socket A/F 39 for hexagonal



SDS Plus chuck adapter

8099910001 SDS-Plus chuck adapter, to drill holes in sleepers

Sleeper drill bits

Max. drilling depth 150 mm with SDS-Plus chuck adapter

9002501808	dia. 14 mm
9002501809	dia. 16 mm
9002501810	dia. 18 mm
9002501811	dia. 20 mm
9002501812	dia. 22 mm

8003009006	Extension bar 180 mm/1" mounting
8003009005	Extension bar 330 mm/1" mounting
8003009007	Cardan joint 1" mounting
9909992145	O-ring, circlip to secure socket
9900070056	Dowel pin to secure socket
8003010003	Transport and storage box

For tightening and loosening nuts and sleeper bolts. The machine meets the requirements for precise, exact tightening torques, in particular for new and high-speed lines (max. deviation +/- 3%).

- Can be used for any type of track
- Automatic speed changeover
- Fast wrenching with low torque and precise control of the final position with high torque.
- Patented hydraulic system
- Only 4 litres of biodegradable oil
- Precise indication of torque, not affected by wear
- Wrenching in with adjustable torque
- Loosening always with max. torque
- With engine stop



TECHNICAL SPECIFICATIONS	ROWRENCH P4 Basic	ROWRENCH E Basic
Drive	air-cooled 4-stroke petrol engine	electric motor, 3-phase
Type	Honda GX 200	400 V, 50 Hz
Output	4.1 kW at 3800 rpm	3 kW at 2880 rpm
Spindle speed		
No-load speed	max. 245 rpm	max. 195 rpm
Load speed	35 rpm	28 rpm
Speed control	automatic	
Tightening torque indicator	max. 450 Nm	
Loosening/tightening torque	max. 760 Nm	
Torque accuracy	+/-3%	
Dimensions (L x W x H)	1800 x 580 x 750 mm	
Weight	~100 kg	~114 kg

ACCESSORIES

- 8003182001 Fish Bolt Spanner 31.82, one-sided design; without socket
- 8003182002 Spindle extension for 140 mm length (31.82)
- 8003062052 Socket hex A/F 39 SRAUG

Other sockets can be found on page 68.

Transverse travelling gears

- 8003082015 Four-wheel, gauge 1435 mm, instead of two-wheel monorail trolley with outrigger
- 8003082015 Four-wheel, gauge 1435 mm, extension needed only if transverse travelling gear is ordered and supplied at a later time. When ordering a transverse travelling gear with the power wrench, the extension is already included in the price.
- 8913823020 Spindle extension, 70 mm, output drive, spherical
- 8329900037 Parking brake for transverse travelling gear
- 7426500007 Handle tube with cover strip
- 9000100065 Hood-shaped cover
- 8329910001 Ballast box for transverse travelling gear



MAXIMUM PERFORMANCE. ACCURATELY DOCUMENTED. x 2.



Fully hydraulic Precision Power Wrench for all wrenching tasks on the track.

ITS BENEFITS. YOUR BENEFITS.

Easy and synchronic wrenching

- Faster wrenching due to double spindle
- Synchronic wrenching with consistent tightening torque
- Sockets find nut or screw easy due to automatic search run

Time savings, highly increased quality

- Patented: Measurement with integrated torque spanner
- Automatic – precise – controlled
- No torque check with manual torque spanner necessary

Intelligent calibration

- Consistent high wrenching precision
- Learning control with nominal / actual adjustment
- Annual check at own workshop

Work result fully documented

- Recording of each wrenching process
- Output of tamper-proof protocol via USB
- LCD-display of torque value, configuration via soft-keys

TECHNICAL SPECIFICATIONS

ROWRENCH P4 2Synch

Drive	4-stroke petrol engine
Type	HONDA GX390
Output	8,6 kW at 3.600 rpm
Wrenching parameters speed	automatically, max. 250 rpm
Fast mode	250 rpm
Synchronous run	40 rpm
Loosening torque	500 Nm
Tightening torque	50 to 500 Nm
Torque accuracy	+/- 3%
Synchronous accuracy	+/- 1%
Dimension (L x W x H)	
Transport position	1800 x 620 x 970 mm
Working position	2300 x 620 x 970 mm
Weight machine	245 kg
Rail clip insertion unit	50 kg
Travelling gear	47 kg



ACCESSORIES

- 7738950110 Torque wrench adapter
- 9002501350 Torque wrench set at reference torque
- 9008110846 USB-stick (only original is allowed to be used)
- 7739910005 Oil change kit

Transverse travelling gear

- 8259900008 Gauge 1435 mm without fail safe brake, mounting equipment, isolated steel wheels, height adjustment 25 mm, incl. tool box

Sockets

Sockets, articulated

Hexagonal articulated, with nut ejector, complete with driving head, wrenching part, compression spring

- 8003062054 Socket hex SW 30 O-ring cylindrical pin
- 8003062064 Socket hex SW 32
- 8003062014 Socket hex SW 33

- 8003062033 Socket hex SW 34
- 9891368034 Socket hex SW 35
- 8003062055 Socket hex SW 36
- 8003062049 Socket hex SW 38
- 8003062001 Socket hex SW 39
- 8003062051 Socket hex SW 40
- 8003062017 Socket hex SW 41
- 8003062039 Socket hex SW 42
- 8003062008 Socket hex SW 44
- 8003062056 Socket hex SW 46

Rectangular articulated, without ejector

- 8003062059 Socket rect. 26 x 18
- 8003062047 Socket rect. 24 x 20
- 8003062070 Socket rect. 24,5 x 20,5
- 8003062005 Socket rect. 28 x 21
- 8003062048 Socket rect. 30 x 22
- 8003062046 Socket rect. 30 x 20

Square articulated, without ejector

- 8003062043 Socket sq. 18 x 18
- 8003062004 Socket sq. 19 x 19
- 8003062044 Socket sq. 24 x 24
- 8003062040 Socket sq. 23 x 23
- 8003062061 Socket sq. 22 x 22
- 8003062063 Socket sq. 32 x 32



MAXIMUM PERFORMANCE. ACCURATE DOCUMENTATION.

ITS BENEFITS. YOUR BENEFITS.

Time savings, highly increased quality

- Patented: measurement with integrated torque spanner
- Automatic – precise – controlled
- No final tightening with torque spanner
- Torque is measured directly at the wrenching motor, it is not calculated via the hydraulic pressure.

Intelligent electrical control

- Learning control with nominal/actual adjustment
- Consistently high wrenching precision
- No manual recalibration on the worksite
- Annual check in own workshop

Reduces labour cost to minimum, makes wrenching easy

- Faster wrenching at 205 rpm
- High tightening/loosening torque for rusty rail fastenings and for dismantling screws without stalling the engine
- Wrenching mode selection at the push of a button

Work result fully documented

- Recording of each wrenching process
- Captures wrenching frequency, kilometre marking and wrenching modes
- Recognises defective screws and damaged threads
- Output of coded results (log) via USB
- Auditable performance protects against future claims

Carefully packaged

- Electrical lines and sensors protected in frame and handles
- Aluminium covers
- Increased operational safety - fewer downtimes
- Fewer spare parts and repairs
- No capital tied up in replacement machines

Added value with the option of

- GPS link for precise information of working position in order to optimise reporting

PRECISION WRENCHING.

The next generation.

The fully hydraulic Precision Power Wrench ROBEL 30.73 PSM 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.

The 30.73 PSM consistently documents accurate measuring results which are captured exactly where they are taken. No longer required to undertake follow up checks.

FOCUS ON OPERATOR

Symbiotic relationship of ergonomics and efficiency

Ergonomic design safeguards the long-term retention of the workforce. Employees benefit from better health, companies benefit from greater efficiency.

The ROBEL 30.73 PSM provides

- Maximum operator safety and comfort
- Increase in work quality

due to:

- Operator posture minimising discomfort
- Weight of under 100 kg
- Optimum machine balance
- Adjustable handles
- Safe 2-hand control

TECHNICAL SPECIFICATIONS		ROWRENCH P4 Rec
Drive		Air-cooled 4-stroke petrol engine
Type		HONDA GX200
Output		4.1 kW at 3,800 rpm
Wrenching parameters		Speed (tightening and loosening) adjusts automatically (max. 205 rpm)
Loosening torque		max. 900 Nm Tightening torque depending on the machine version max. 500 Nm
Dimensions (L x W x H)		1530 x 470 x 670 mm (transport position) 2090 x 470 x 960 mm (working position)
Weight		~99 kg machine ~6 kg travelling gear ~3.5 kg outrigger

ACCESSORIES		
7739910001	Travelling gear	
7730800001	Outrigger track gauge 1435mm or	
7730750001	Four-wheel travelling gear	
7738950140	Extension 100mm with quick-chuck	
7738930110	Penholder for marker	
7738930120	Bottle holder	
8328980100	Box for traversing gear	
	Covering sheet	
7738950110	Torque wrench adapter	
9002501350	Torque wrench constant	
	Oil change kit	
9008110846	USB-stick (Only original is allowed to be used)	
Other sockets (also articulated for straight output drive) can be found on page 68.		
Sockets		
Sockets, articulated		
Hexagonal articulated, with nut ejector, complete with driving head, wrenching part, compression spring		
8003062054	Socket hex SW 30 O-ring cylindrical pin	
8003062064	Socket hex SW 32	
8003062014	Socket hex SW 33	
8003062033	Socket hex SW 34	
9891368034	Socket hex SW 35	
8003062055	Socket hex SW 36	
8003062049	Socket hex SW 38	
8003062001	Socket hex SW 39	
8003062051	Socket hex SW 40	
8003062017	Socket hex SW 41	
8003062039	Socket hex SW 42	
8003062008	Socket hex SW 44	
8003062056	Socket hex SW 46	
Rectangular articulated, without ejector		
8003062059	Socket rect. 26 x 18	
8003062047	Socket rect. 24 x 20	
8003062070	Socket rect. 24,5 x 20,5	
8003062005	Socket rect. 28 x 21	
8003062048	Socket rect. 30 x 22	
8003062046	Socket rect. 30 x 20	
Square articulated, without ejector		
8003062043	Socket sq. 18 x 18	
8003062004	Socket sq. 19 x 19	
8003062044	Socket sq. 24 x 24	
8003062040	Socket sq. 23 x 23	
8003062061	Socket sq. 22 x 22	
8003062063	Socket sq. 32 x 32	



For the simultaneous, fully automatic tightening or loosening of up to 8 rail fastenings in one work step, and for the synchronous tightening of clamping devices

- High synchronous and torque accuracy
- Efficient and precise wrenching mechanism
- High working speed
- Compact aluminium frame with 4 screw shuttles and 8 fully hydraulic screw drives
- Rail tongs to automatically fix the wrenching unit during work
- Display for setting, indicating and checking the torques

- Electronic data logger
- Optional data storage and evaluation using PC
- Fast and easy working in obstructionless position
- Can be combined with various energy supplies
- Continuous travel of energy supply during wrenching operation, designed as satellite wrenching unit positioned by linear drive
- Wrenching unit with lights
- Remote control

Accessories on request.

TECHNICAL SPECIFICATIONS

ROWRENCH 8Synch Unit

Working speed	~600 m/h
Wheel base	1950 mm
Diameter, running wheels	340 mm
Combination with various energy supplies	ROBEL track vehicles or similar
	<ul style="list-style-type: none"> • excavator with 2-way unit • 2-way vehicle, e.g. Unimog • Integration into work train • Independent machine, self-propelled
Energy requirement	electric 24 V, DC/60 Amps
Hydraulic output required	60 kW
Hydrostatic drive	0 - 1.0 km/h
Weight	~2300 kg



For tightening or loosening nuts as well as sleeper, hook and fishplate bolts.

ITS BENEFITS. YOUR BENEFITS.

Optimum results

- High torque due to robust construction
- Quick switch to maximum torque without changing the original torque setting
- Integrated display to control the tightening torque
- Highest possible efficiency due to 2-speed helical gear

User-friendly

- Compact and light-weight design
- Good visibility due to LED lights
- Possibility to work without outrigger due to the extremely low centre of gravity. Requires little maintenance

Applications

Can be used for all wrenching operations for various types of track construction and gauges



TECHNICAL SPEC.	ROWRENCH P4 200 1.0	ROWRENCH E 1.0	ROWRENCH P4 270 1.0	ROWRENCH D 1.0
Drive	air-cooled 4-stroke petrol engine	electric motor, 3-phase	air-cooled 4-stroke petrol engine	air-cooled 4-stroke diesel engine
Type	Honda GX 200	400 V, 50 Hz	Honda GX 270	Hatz 1B20
Output	4.9 kW at 3800 rpm	4 kW at 2880 rpm	6.6 kW at 3600 rpm	4.9 kW at 3800 rpm
Spindle speed				
No-load speed	max. 186 rpm	max. 150 rpm	max. 175 rpm	186 rpm
Load speed	71 rpm	55 rpm	67 rpm	71 rpm
Adjustable tightening torque	to 450 Nm			
Rapid loosening torque	to 1000 Nm			
Dimensions (L x W x H)	1750 x 600 x 750 mm			
Weight	~88 kg	~111 kg	~100 kg	~100 kg

ACCESSORIES

Fish bolt spanner

- 8003182001 31.82 one-sided design; without socket
- 8003062052 Socket, hex A/F 39 SRAUG

Other sockets (also articulated for straight output drive) can be found on page 68.

Transverse travelling gear

- 8320750010 Four-wheel, gauge 1435 mm incl. spindle extension, 70 mm, output drive, spherical
- 8003082015 Four-wheel, gauge 1435 mm, four-wheel, gauge 1435 mm
- 8003082065 Travelling gear with rubber wheels, instead of travelling gear with outrigger
- 8329900037 Parking brake for transverse travelling gear
- 8329910001 Ballast box (for transverse travelling gear)
- 8328950001 Tool box (only available for Honda GX 200)
- 8869900006 Torque meter 86.12 to calibrate the machine
- 8913823020 Spindle extension, 70 mm, output drive, spherical
- 9000100065 Protective hood (tarpaulin), bright yellow, made of Trevira fabric, PVC coated, hemmed.
With nickel-plated eyelets on both long sides.
Size: 1900 x 600 x 600 mm



Hood-shaped cover



Socket, hex. A/F 39 Sraug



For tightening or loosening sleeper, hook and fishplate bolts.

ITS BENEFITS. YOUR BENEFITS.

Optimum results

- High torque
- Electronic control for precise observance of set values
- Precise torque settings via potentiometer on control panel and visual check by operator
- 2-speed gearbox with helical gears for high efficiency
- Wrenching step carried out with push-button. Wrenching stopped automatically, thus highest accuracy and overload protection.
- Electric disc clutch for maximum durability

User-friendly

- Optimum illumination of working area with LED illumination of socket integrated into the gear case

- Quick-change chuck
- Protective engine frame with carrying handles and holder for 2 sockets
- It is possible to work without outrigger due to the extremely low centre of gravity.

Low maintenance requirement

- Due to no-maintenance electronic disc clutch
- Hardly any wear due to articulated sockets and non-friction roll behaviour for angled fasteners

Applications

Can be used for all wrenching operations for various types of track construction and gauges

TECHNICAL SPECIFICATIONS

ROWRENCH P4 RKS

Drive	air-cooled 4-stroke petrol engine
Type	HONDA GX 200
Output	4.1 kW at 3800 rpm
Spindle speed	
No-load speed	200 rpm
Load speed	70 rpm
Tightening torque indicator	max. 999 Nm
Adjustment range for screwing in	150 Nm to 350 Nm/420 Nm to 999 Nm
Loosening/tightening torque	max. 1000 Nm
Dimensions (L x W x H)	2030 x 600 x 750 mm
Weight without outrigger (outrigger 4 kg)	~92 kg

ACCESSORIES

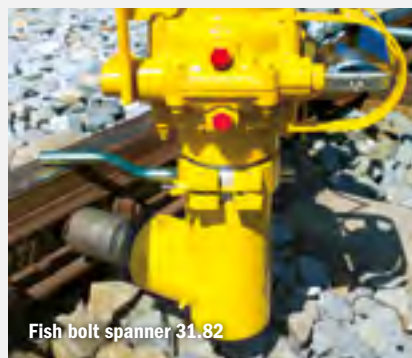
Transverse travelling gear

- 8050750001 RKS, four-wheel, instead of two-wheel monorail trolley with outrigger, gauge 1435 mm, incl. extension 100 mm square output drive
- 8003082015 Four-wheel, gauge 1435 mm
- 8338950150 Extension, 100 mm, square output drive
Extension needed only if transverse travelling gear is ordered and supplied at a later time. When ordering a transverse travelling gear with the power wrench, the extension is already included in the price.
- 8329900037 Parking brake for transverse travelling gear
- 9000100065 Protective hood (tarpaulin), bright yellow, made of Trevira fabric, PVC coated, hemmed. With nickel-plated eyelets on both long sides.
Dimensions: 1900x600x600 mm

Fish bolt spanner

- 8003182001 31.82 one-sided design; without socket
- 8003062052 Socket, hex A/F 39 SRAUG one-sided design; without socket

Other sockets (also articulated for straight output drive) can be found on page 68.



Fish bolt spanner 31.82



Hood-shaped cover



Socket, hex. A/F 39 Sraug

WEAR-RESISTANT WRENCHING WITH PROVEN TECHNOLOGY.



ITS BENEFITS. YOUR BENEFITS.

Reliable wrenching, exact results

- Consistent repetitions of the wrenching process through precisely adjustable torque
- Control of torque on pressure gauge display
- Choice between two gears, depending on the stiffness of the screw
- Low maintenance costs due to minimal clutch wear
- Quick switch to maximum torque without changing the original torque setting

Robust construction, minimized maintenance costs

- Increased lifetime due to ROBEL high performance clutch
- Low maintenance, thanks to permanent oil lubrication of the clutch in an oil bath

Ergonomic use

- Light-weight and compact design
- Wide view thanks to LED lights
- Optional: Height adjustable handles

Flexible range of application

- Possibility to work without outrigger due to the low center of gravity
- Operation for any wrenching connections of all upper structure types due to height adjustable wrenching spindle

➡ [More information on ROBEL.com](https://www.robels.com)

TECHNICAL SPEC.	ROWRENCH P4 200 2.0	ROWRENCH E 2.0	ROWRENCH P4 270 2.0	ROWRENCH D 2.0
Drive	air-cooled 4-stroke petrol engine	electric motor, 3-phase	air-cooled 4-stroke petrol engine	air-cooled 4-stroke diesel engine
Type	Honda GX 200	400 V, 50 Hz	Honda GX 270	Hatz 1B20
Output	4,1 kW at 3800 rpm	4 kW at 2880 rpm	6,3 kW at 3600 rpm	4,9 kW at 3800 rpm
Spindle speed				
No load speed	200 rpm	152 rpm	190 rpm	200 rpm
Load speed	71 rpm	55 rpm	67 rpm	71 rpm
adjustable tightening torque	from 140 to 300 Nm			
rapid loosening torque	to 1000 Nm			
Dimensions (L x W x H)	1900 x 600 x 720 mm			
Transport position (L x W x H)	1500 x 600 x 575 mm			
Weight	~ 93 kg	~ 116 kg	~ 105 kg	~ 105 kg

ACCESSORIES

Undercarriage

5010820001 with docking bar and symmetrical holding unit.
In conjunction with outrigger.

Outrigger

8320800002 Gauge 750 mm
8320800006 Gauge 914 mm
8320800003 Gauge 1000 mm
8320800004 Gauge 1065 & 1067 mm
8320800001 Gauge 1435 mm
8320800005 Gauge 1435 mm cranked
8003082034 Gauge 1520 mm
8003082037 Gauge 1600 mm
8003082049 Gauge 1668 -1676mm

Sockets

Sockets, flexible

Hexagonal flexible, with ejector

Complete with joint, socket insert, spring pressure,
o-ring and straight pin

8003062054 Socket 6KT. SW 30
8003062064 Socket 6KT. SW 32
8003062014 Socket 6KT. SW 33
8003062033 Socket 6KT. SW 34
9891368034 Socket 6KT. SW 35
8003062055 Socket 6KT. SW 36
8003062049 Socket 6KT. SW 38
8003062001 Socket 6KT. SW 39
8003062051 Socket 6KT. SW 40
8003062017 Socket 6KT. SW 41
8003062039 Socket 6KT. SW 42
8003062008 Socket 6KT. SW 44
8003062056 Socket f 6KT. SW 46

Rectangular flexible, without outrigger

8003062059 Socket RKT 26 x 18
8003062047 Socket RKT 24 x 20
8003062070 Socket RKT 24,5 x 20,5
8003062005 Socket RKT 28 x 21
8003062048 Socket RKT 30 x 22
8003062046 Socket RKT 30 x 20

Square, flexible, without outrigger

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

Fish bolt spanner

8003182001 31.82 one-sided design; without socket (Sockets
available for different spanner sizes)

Travelling gear with rubber wheels

8320820001 for working in rail less sectors

Separated guide handle

8321560016 for one-hand operation

Socket holder

8328900004 for fastening Sockets in vicinity of the spindle

Tool box

8329910001 In conjunction with a transvers traveling gear

Protective hood

9000100065 for protection against the weather elements with loops
(yellow)

Torque meter

8869900006 86.12 to calibrate the machine



For all drilling and wrenching tasks that arise in track construction. Especially suitable for dowel renovation.

- Ideal for all fast wrenching tasks on rails, switches and other locations
- Powerful, robust design
- Easy operation in all work positions
- No transfer of wrenching moment to operator
- Rotates left/right
- Mechanical emergency activation of servo hydraulics
- LED work light
- With engine stop

TECHNICAL SPECIFICATIONS	ROWRENCH P4 Drill	ROWRENCH E Drill
Drive	air-cooled 4-stroke petrol engine	electric motor, 3-phase
Type	Honda GX 270	400 V, 50 Hz
Output	6.3 kW at 3600 rpm	4 kW at 2870 rpm
Spindle speed		
No-load speed	175 rpm	145 rpm
Load speed	67 rpm	55 rpm
Max. drill bit diameter	38 mm	
Max. drilling depth	180 mm	
Dimensions (L x W x H)	2100 x 600 x 750 mm	
Weight incl. outrigger	~123 kg	~139.5 kg

ACCESSORIES

Wooden sleeper renovation

- 1) 8913839005 MK2 (chuck) (not shown) for rail drill type 95.02
- 2) 9002501278 Drill bit dia. 43 mm
- 3) 8003083002 Tool holder to hold tools with a square drive for wooden sleeper
- 4) 9891089217 Countersink for wooden sleeper dowel 15
- 5) 9891089220 Screw tap for wooden sleeper, sleeper dowel 15
- 6) 9891089219 Dowel turn-in mandrel for wooden sleeper, sleeper dowel 15
- 7) 9891085161 Turn-in tool no. 5 (spiral dowel no. 5)
- 8) 8003083003 Adapter with chuck for sleeper drill bit (wood, 96.01)
- 9) 8003083006 Depth stop



Concrete sleeper renovation

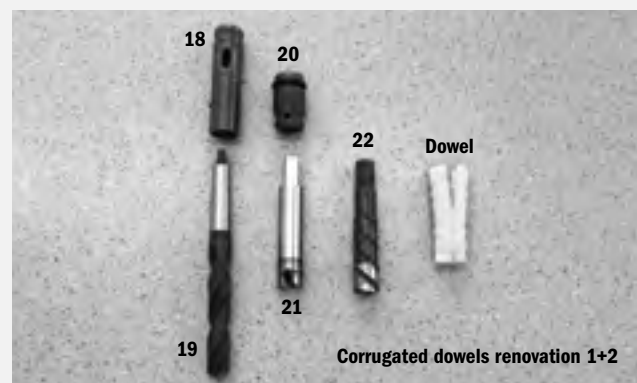
- 11) 8910839010 MK3 (chuck) (not shown) for rail drill type 95.02
- 12) 9002501512 Drill bit dia. 29 mm, MK3
- 13) 8003083002 Tool holder to hold tools with a square drive
- 14) 8333550110 RD29 for concrete sleeper, sleeper dowels 9+13
- 15) 9891089288 Left-hand extractor for concrete sleeper, sleeper 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



Replacement of corrugated dowels

- 18) 8910839015 MK4 (chuck) for rail drill type 95.02
- 19) 8003062052 Socket, hex A/F 39 SRAUG
- 20) 9002501519 dia. 38 mm MK 4
- 21) 9002501548 dia. 27 mm MK 3
- 22) 9002501513 dia. 30 mm MK 3
- 23) 8003083002 Tool holder to hold tools with a square drive
- 24) 8333550120 RD38 for wooden sleeper or corrugated dowels 1+2
- 25) 9891089218 Left-hand extractor for wooden sleeper corrugated dowels 1+2

- 26) 8330750003 Transverse travelling gear 1435 mm
- 27) 8329900037 Parking brake
- 28) 8329910001 Ballast box (for transverse travelling gear)
- 29) 8003182001 Fish Bolt Spanner 31.82, one-sided design; without socket



Fish bolt spanner 31.82



For synchronous tightening or loosening for all wrenching tasks required in track construction within the ROBIL Mobile Maintenance Unit

ITS BENEFITS. YOUR BENEFITS.

Precise & efficient

- Data recording with patented wrenching software
- GPS data logger
- Torque repeatability ~3% (independent of joint hardness and rail fastener type)
- High wrenching quality independent of operator

TECHNICAL SPECIFICATIONS

ROWRENCH Servo

Torque	1000 Nm
Continuous tightening torque	300 Nm
Continuous loosening torque	300 Nm
Spindle speed	~230 rpm
Dimensions (L x W x H) (Spindle application with tool carrier)	1670 x 1300-2055 x 2100-2755 mm
Weight per servo spindle	~65.5 kg

- For ROBEL 30.82 and 30.82 RKS Universal Power Wrenches, 30.83 and 30.71 Wrenching Machines
- Single-sided design
- Weight ~8.8 kg


To set and check the torque of power wrenches

- Quick fitting to the quick-change chuck of ROBEL power wrenches
- Drive socket square 3/4 inch
- Reference mark for torque 150/200/250 Nm
- Weight ~5 kg

ACCESSORIES

- | | |
|------------|----------------------------|
| 8869900002 | Wrenching tool A/F 36 |
| 8008612003 | Wrenching tool A/F 39 |
| 9002500143 | Wrenching tool A/F 41 |
| 8008612004 | Wrenching tool rect. 21X28 |


To set and check the torque of power wrenches

By layering the disc springs different wrenching torques (joints) can be simulated. E.g. permanent way old/new, W permanent way rail clip 14 old/new, etc.

- Fastening on track with clamping screw
- Obstructionless
- Measuring range 150 to 450 Nm
- 700 x 305 x 250 mm
- Weight ~24.8 kg



PATENTED TOOLS.

Powerful clipping of FE/FC (FCx).



ROCLIP P4 FC/FE (FCx)

ITS BENEFITS. YOUR BENEFITS.

Wide range of application, high performance

- Installing and removing of FC and FE (FCx) type Fastclips
- Quick and easy to change from installing to removing operation using patented tool
- Load relief to operator due to rollers on the clipping module to optimize center of weight of machine in version FE/FCx

Strong machine, easy clipping

- Clipping is triggered by a push-button on the handle
- Hassle free operation without time-consuming adjustments
- Works on heavily corroded clips due to strong high-performance components

Flexible and practical use

- Handles can be individually adjusted in height to the operator preference
- Optimal view of the work area, also at night thanks to LEDs mounted on the handles

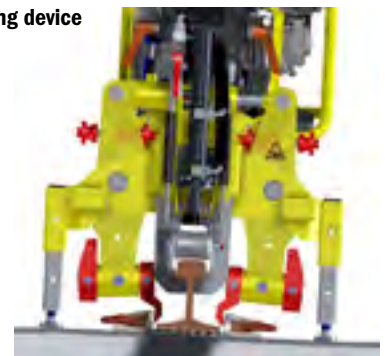
Optional Sleeper lifting unit

- Slight and fast lifting of low-lying sleepers



ROCLIP P4 FC

Sleeperlifting device



TECHNICAL SPECIFICATIONS	ROCLIP P4 FC	ROCLIP D FC	ROCLIP P4 FC/FE (FCx)
Drive	4-stroke petrol engine	diesel engine	4-stroke petrol engine
Type	HONDA GX 200	Hatz 1B30	HONDA GX 200
Output	4.1 kW at 3800 rpm	5.0 kW at 3600 rpm	4.1 kW at 3800 rpm
Weight machine			
Without sleeper lifting device	~134 kg	~212 kg	~163 kg
Weight machine			
With sleeper lifting device	~155 kg	~233 kg	~170 kg
Outtrigger gear	~46 kg	~46 kg	~46 kg
Dimensions (L x W x H)	1950 x 620 x 1010 mm	1950 x 620 x 1010 mm	1950 x 650 x 1010 mm
Outtrigger gear for 1435mm gauge (other gauges are available on request)			

ACCESSORIES

Available Fastclip tools

VERSION 1

Clip application

8254220001	Clip 125
8254220002	Clip 135
8254220007	Wide Clip 125
8254220008	Wide Clip 135

Clip removal

8254220019	Standard
8254220013	Without stop
8254220009	Simple design, smooth
8254220004	With nose
8254220003	Removal disc, general
8254220010	Removal disc, wide, general

VERSION 3

Clip application

8254220011	Clip 135
8254220012	Clip 125

Clip removal

8254220019	Standard
8254220013	Without stop
8254220009	Smooth

8259900008	Transverse travelling gear. Please request info for gauges other than 1435 mm.
8259910005	Parking brake for transverse travelling gear
9000100065	Hood-shaped cover

Converter for clips of different length (from 125 mm to 135 mm and vice versa)

Insertion tool for all types of application

8254220180	125 clip with lifting point for sleeper lifting
8254220170	135 clip with lifting point for sleeper lifting
8254220100	125 clip without sleeper lifting
8254220120	135 clip without sleeper lifting



Hood-shaped cover



For applying and removing clip fastenings in modular and ergonomic design. The Power Pack (electric, petrol or diesel) is combined with the required working module (Fast-Clip with sleeper lifting unit, E-Clip).



The modular hydraulic series by ROBEL.

ITS BENEFITS. YOUR BENEFITS.

Cost effective

- Easy and quick changeover from application to removal tool increases the throughput.
- High quality tools reduce damage to fasteners, including insulators.
- Versatile due to modular design
- Return on investment due to increased machine availability

Ergonomic & safe

- Safe operation due to protective functions, such as 2-hand operation and dead man's brake
- Simple to load due to defined anchor points for manipulating modules and Power Packs
- Ergonomic working due to balanced load distribution and low hand/arm vibrations

MODULAR POWER PACK SERIES

Providing the working module with energy

- Electric motor, petrol or diesel engine
- Various Power Pack outputs
- Fast and simple combination of Power Packs with any available working module
- Universal use due to versatile hydraulic and electric connections (200 bar, 12V, 5A)
- Easy transport and the stackability of several Power Packs is a bonus for storage.
- Oil filter and filter maintenance indicator



MODULAR WORKING MODULES

Modular Clipping

- Various types of fastener: Fastclip, eClip
- Quick and easy combination of working module with any available medium size Power Pack
- Simple operation in automatic or manual mode
- Clear view of the work area, also at night due to LED light
- Safe operation due to 2-hand protective circuit and sturdy guard
- Clipping is triggered by a push-button on the handle

TECHNICAL SPECIFICATIONS	ROCLIP Modul FC	ROCLIP Modul e-clip	ROCLIP	ROCLIP
POWER PACKS				
Drive	Honda GX200	Honda GX270	Hatz 1B30	Hatz 1B30
Type	petrol	petrol	diesel	diesel E-Start
Output	4.1 kW at 3800 rpm	6.3 kW at 3800 rpm	5.4 kW at 3600 rpm	5.4 kW at 3600 rpm
Pressure	200 bar			
Weight	~67 kg	~78 kg	~85 kg	~88 kg
Dimensions (L x W x H)	960/620/570 mm			

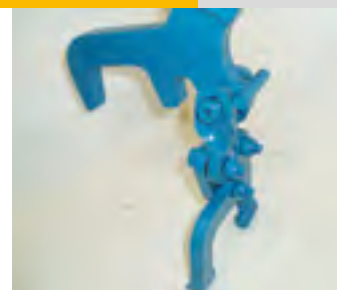
CLIPPING & WRENCHING WORKING MODULES				
Type	Fast-Clip	e-Clip		2 spindles with spring clip insertion
Weight	~102 kg	~200 kg		~112 kg
Dimensions (L x W x H)	1700 x 10500 x 590 mm			

ACCESSORIES				
Transverse travelling gear				
8259900008	for gauge 1435 mm	5079900002	for gauge 1435 mm incl. a mechanical brake	
7421300008	for gauge 1435 mm incl. a mechanical brake		The brake is released by pressing a handle on the clipping machine.	
	The brake is released by inserting a pin connected to the clipping machine.		Gauges other than 1435 mm on request.	

ROCLIP Clipping Device 34.90

SLEEPER LIFTING UNIT To manually lift sleepers

TECHNICAL SPECIFICATIONS	ROCLIP M Lift
Length	1000 mm
Weight	~8 kg



EXTRACTION TOOL To manually extract Pandrol Fastclips

TECHNICAL SPECIFICATIONS	ROCLIP M Extract
Length	1000 mm
Weight	~8 kg



INSERTION TOOL To manually insert Pandrol Fastclips

TECHNICAL SPECIFICATIONS	ROCLIP M Insert
Length	1100 mm
Weight	~10 kg



Ratchet spanner for clockwise and counter-clockwise rotation of flat fish-plates, for hexagon nuts, A/F 39, with 2 lever arms.

- Without inserts, for flat fish-plates; hexagon nut A/F 39 mm
- With inserts for angle fish-plates and flat fish-plates; hexagon nuts A/F 39 mm and other dimensions

TECHNICAL SPECIFICATIONS
ROTOOL Bolt One

Length	730 mm
Weight	~6.3 kg


ACCESSORIES
Spanner inserts

For use with angle fish-plates (2 pcs are required)

9891040135	A/F 32
9891040137	A/F 33
9891040139	A/F 34
8910440145	A/F 36

9891040147	A/F 38
8910440151	A/F 39
9891040155	A/F 42
9891040161	A/F 45
9891040163	A/F 46



Insert A/F 39

For use with fish-plates and for general wrenching work

Light-weight, robust & flexible

- Ratchet spanner in partial aluminium construction
- Sturdy coarse ratchet
- Inserts reversible for left-hand/right-hand rotation
- Locking with ball stop
- Socket adapter 1"


TECHNICAL SPECIFICATIONS
ROTOOL Bolt Two

Length	730 mm
Weight	~6.3 kg

ACCESSORIES
Sockets

9002501704	A/F 36
9002501703	A/F 38
9803502002	A/F 39
9002501694	A/F 41

Other sockets can be found on page 68.



Socket A/F 36

36.01 for sleeper bolts

(square head DIN 5913, A/F 17 x 17/19 x 19 mm)

36.02 for sleeper bolts

(rectangular head DIN 5914, A/F 19 x 26/21 x 28 mm)

36.03 for nuts

(hex head, e.g. DIN 3129, A/F 33 or 39 mm)

A/F = width of nuts or sockets across flats

Please contact our expert staff for other types of socket wrenches.



TECHNICAL SPECIFICATIONS	ROTOOL Socket Sq	ROTOOL Socket Rect	ROTOOL Socket Hex
Height	980 mm	980 mm	980 mm
Width	980 mm	750 mm	980 mm
Weight	~6.5 kg	980 mm	~7.4 kg

The support lever is an installation aid which prevents plastic dowels from being raised from their installation positions while the sleeper bolt is removed for the required maintenance work.

38.01 Support lever for rail type S49/54

38.01 Support lever for rail type UIC60



TECHNICAL SPECIFICATIONS	ROTOOL Fix UIC 60	ROTOOL Fix S49/54
Length	~1500 mm	~1500 mm
Width	200 mm	170 mm
Height	90 mm	90 mm
Weight	~5,2 kg	~5,2 kg

Sockets, one-piece

in standard dimensions

For ROBEL power wrenches 30.71 and 30.82
(with spherical wrenching spindle seat)

Hexagonal, one-piece, e.g. "K" permanent way, with nut ejector

8003082039	Socket, hex SW 35 with ejector
8003082075	Socket, hex SW 36 with ejector
8003082038	Socket, hex SW 38 with ejector
8003082036	Socket, hex SW 39 with ejector
8003082074	Socket, hex SW 40 with ejector
8003082071	Socket, hex SW 41 with ejector

Rectangular, one-piece, e.g. "W" permanent way, without ejector

9871033020	Socket, rect. 30 x 20
9871033022	Socket, rect. 30 x 22
9871033072	Socket, rect. 24.5 x 20.5
9871033070	Socket, rect. 28 x 21
9871032618	Socket, rect. 26 x 18

Square, one-piece, without ejector

9871033080	Socket, sq. 19 x 19
9871033200	Socket, sq. 21 x 21
9871032123	Socket, sq. 23 x 23
9871032200	Socket, sq. 22 x 22
9871032400	Socket, sq. 24 x 24
9871032540	Socket, sq. 25.4 x 25.4 (1")
8710302118	Socket, sq. 1 1/8" octagonal
9871032427	Socket, sq. 27 x 27

For fish bolt spanner 31.82

Wrenching part seat hex 40, complete with ejector, compression spring, O-ring and cylindrical pin.

8003062016	Socket, hex SW 36 SRAUG
8003062062	Socket, hex SW 38 SRAUG
8003062052	Socket, hex SW 39 SRAUG
8003062060	Socket, hex SW 40 SRAUG
8003062058	Socket, hex SW 41 SRAUG
8003062065	Socket, hex SW 42 SRAUG
8003062072	Socket, hex SW 46 SRAUG
8003062073	Socket, octagonal 1 11/16" octagonal



Sockets, articulated

Complete with driving head, wrenching part, compression spring, O-ring and cylindrical pin.

For ROBEL power wrenches 30.42, 30.74, 30.83 and 30.82 RKS, 30.73 (with straight wrenching spindle seat)

Hexagonal articulated, with nut ejector

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

Rectangular articulated, without ejector

8003062059	Socket, rect. 26 x 18
8003062047	Socket, rect. 24 x 20
8003062070	Socket, rect. 24.5 x 20.5
8003062005	Socket, rect. 28 x 21
8003062048	Socket, rect. 30 x 22
8003062046	Socket, rect. 30 x 20

Square articulated, without ejector

8003062043	Socket, sq. 18 x 18
8003062004	Socket, sq. 19 x 19
8003062044	Socket, sq. 24 x 24
8003062040	Socket, sq. 23 x 23
8003062061	Socket, sq. 22 x 22
8003062063	Socket, sq. 32 x 32



LIFTING LOADING TRANSPORTING

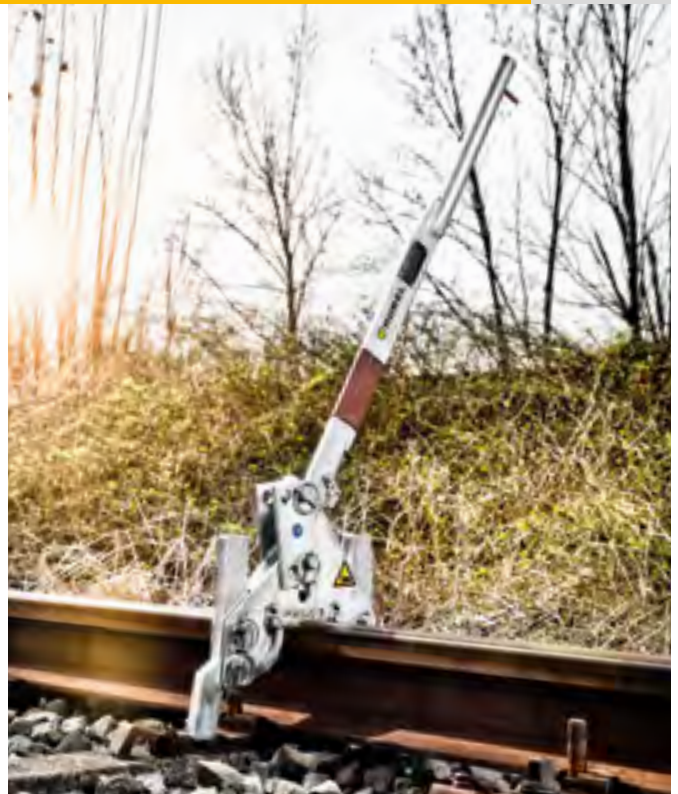


ROALIGN

Hydraulic Track Lifting Machine with Slewing Device

For lifting and fixing rails, e.g. S49, S54 and UIC60, via hand lever

- To be used for replacing rail pads and grooved base plates
- For all types of track used by DB
- For other special types of track upon request
- Hand lever equipped with above-dead-centre safety device
- Additional locking hook


TECHNICAL SPECIFICATIONS
ROLIFT 0,75

Max. load

750 kg

Lifting height

4 different heights adjustable

2 heights for grooved plate support,

2 heights for sleeper support

Dimensions (L x W x H)

12000 x 3800 x 75 mm

Weight

~14 kg

For carrying and lifting rails


TECHNICAL SPECIFICATIONS
ROCARRY M Rail

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

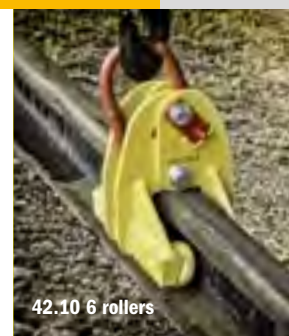
~7.5 kg

ROCARRY Rail Carrying Roller Tongs with Locking Bolt

42.10

For lifting and transporting rails

- Rail Mover 43.02, 4 carrying rollers
- Increased with suspension eye, 6 carrying rollers



TECHNICAL SPEC.	ROCARRY Vignol 0,5	ROCARRY Vignol 1,5	ROCARRY 3rd 1,5	ROCARRY Vignol 3
Perm. carrying capacity	0.5 t	1.5 t	1.5 t	3 t
Suitable for	small flat bottom rail	flat bottom rail	conductor rail	flat bottom rail
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	~6.5 kg	~16.7 kg	~14 kg	~24.7 kg
Rollers	4 rollers	4 rollers	4 rollers	6 rollers

ROCARRY Rail Carrying Tongs with Safety Latch

42.11

For lifting and transporting rails

- For Rail Loaders 40.44 and 40.51

TECHNICAL SPECIFICATIONS	ROCARRY 1,5 Latch
Perm. carrying capacity	1.5 t
Suitable for	flat bottom rail
Dimensions (L x W x H)	100 x 165 x 300 mm
Weight	~5.4 kg

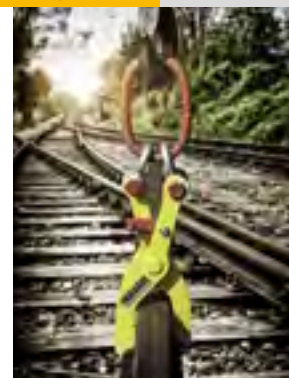


ROCARRY Rail Carrying Tongs with Suspension Eye (crane hook securing) and Locking Device

42.22

For lifting and transporting rails

- with suspension eye (crane hook securing) and locking device,
 - sturdy design
 - with 3 lifting claws
 - Carrying capacity 3 t
- Opens automatically when touching down on rail head
- Designs available for different types of flat bottom rails.
Ask your ROBEL contact about your specific type of flat bottom rail.



TECHNICAL SPECIFICATIONS	ROCARRY 3 Eye
Perm. carrying capacity	3 t
Suitable for	grooved rail, thick web rail
Dimensions (L x W x H)	120 x 130 x 400 mm
Weight	~10.9 - 12.8 kg

For lifting and moving rails of any length longitudinally and laterally when used with an appropriate number of devices. Recommended distance between devices approx. 10 m.

- Consists of 2 supports, 1 cross beam, 1 travelling crab and 1 pair of roller carrying tongs
- Support with holes for adjusting height of cross beam by locking pin, with fold-down carrying handles, wooden feet and running rollers
- Easy to dismantle for transport to and from the work site
- ROBEL 41.04 Travelling Crab with rack and pinion thread, safety crank and load pressure brake, ROBEL 42.10 Roller Carrying Tongs self-clamping, with hardened running rollers for moving rails longitudinally



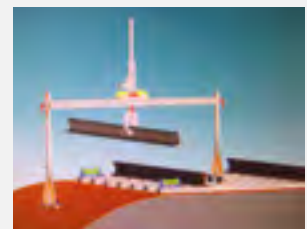
TECHNICAL SPECIFICATIONS

ROMOVE 1,5

Permissible lifting capacity max.	1.5 t			
Vertical travel	800 mm			
Running distance of travelling crab	1900 mm			
Support width	2240 mm			
max. head width of rail	75 mm			
max. head height of rail	45 mm			
Designation	ROBEL 41.04	42.10 Roller	Cross beam	Support
	Travelling crab with rack and pinion and hook	Carrying Tongs		
Dimensions (L x W x H)	1150 x 360 x 310 mm	305 x 270 x 165 mm	2450 x 210 x 130 mm	1180 x 700 x 130 mm
Weight	~24 kg	~16 kg	~45 kg	~16 kg

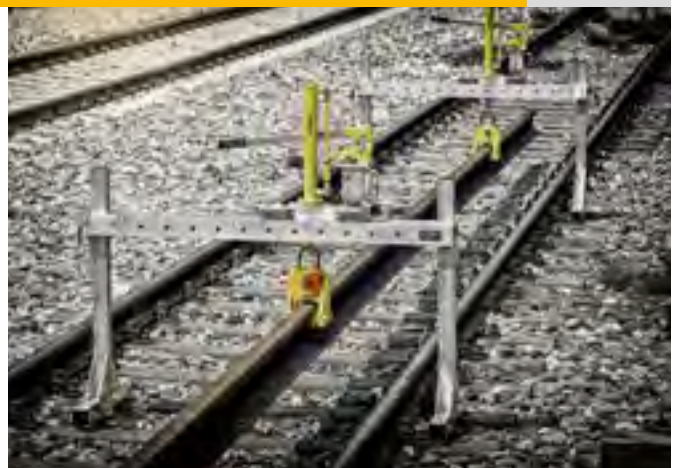
ACCESSORIES

8379910001 Extension 325 mm



For lifting and moving rails longitudinally and laterally

- Compact device in light-weight construction, standard design in aluminium
- Particularly suited for the safe, quick and efficient moving of fitted pieces, e.g. in case of fractured rails, for insulated joints, etc.
- Consists of 2 supports, 1 cross beam, 1 travelling crab with hydraulic lifting device
- The device can be dismantled for transport and can be re-assembled easily and quickly as required



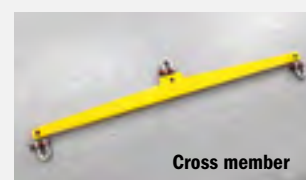
TECHNICAL SPECIFICATIONS		REMOVE 0,5 Alu
Permissible lifting capacity max.		500 kg
Vertical travel		350 mm
Running distance of travelling crab		900 mm
Support width		1350 mm
Max. head width of rail similar to rail type UIC60 head width		75 mm
Max. head height of rail similar to rail type UIC60 head height		45 mm
Dimensions (L x W x H)		1650 x 750 x 1400 mm
Weight basic device		~27 kg

ACCESSORIES

- 8428420012 Rail Carrying Roller Tongs ROBEL 42.10 Compact
In specially low construction; aluminium design, with suspension pin; self-clamping with hardened running rollers
- Roller distance 150 mm
 - For moving rails longitudinally
 - Permitted carrying capacity 0.5 t
- 8378100001 Cross member, when using 2 sets of rail carrying roller tongs. For picking up fitted pieces (e.g. insulated joint); length of cross member 1,150 mm



Rail carrying roller tongs



Cross member



For continuous gradual positioning of rails to the desired track gauge. Hydraulic rail tongs grip the rail heads, hold them securely without turning or tilting and move the rails outward or inward.

ITS BENEFITS. YOUR BENEFITS.

Profitability

- High performance, especially for 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 rerailing and unrerailing at level crossings

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. (Saving a hydraulic unit)

User-friendly and 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

TECHNICAL SPECIFICATIONS		ROTHREAD D
Drive		air-cooled 4-stroke diesel engine
Type		HATZ 1 D81 „Silent Pac“
Output		7.2 kW at 2,000 rpm
Fuel tank capacity		20 l
Hydraulic system operating pressure		50/160 bar
Hydraulic oil reservoir		35 l
Electrical system battery		12 V, 60 Ah
Lifting capacity		6 t
Vertical travel max.		800 mm
Outward expansion force		30 kN
Inward expansion force		15 kN
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)		1700 x 4100 x 1800 mm
Weight without auxiliary equipment		~1.5 t

ACCESSORIES

- 9891041960 Hood-shaped cover of strong, fabric-reinforced PVC sheet
- 8437790001 Hydraulic connection for secondary equipment, e.g. for ROBEL 24.12 Rail Pulling and Pushing Device
- 8431920010 Holders incl. hose set
- 8002412019 Clamping head and cylinder for pulling rails



ROTOOL Wooden Sleeper Carrying Tongs

44.17

For manual lifting of sleepers.

Heavy duty DB design made of steel.



TECHNICAL SPECIFICATIONS		ROTOOL W-Tong
Width up to		270 mm
Height up to		165 mm
Dimensions (L x W x H)		1000 x 60 x 450 mm
Weight		~5.5 kg

For manual lifting of sleepers. Forged steel with welded gripper angles.

Heavy duty DB design in steel.


TECHNICAL SPECIFICATIONS
ROTOOL C-Tong

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

For lifting and lowering loads, e.g. track panels, rails etc. Compliant with Accident Prevention Guidelines for Winches, Lifting and Pulling Devices, BGV D8 (EN 45000).

- Solid, rugged design with large reinforced foot plate
- Safety crank with load pressure brake and foldable handle



TECHNICAL SPEC.	ROJACK Ratchet 3	ROJACK Ratchet 5	ROJACK Ratchet 7,5	ROJACK Ratchet 10
Designation	46.43	46.45	46.47	46.50
max. lifting capacity	3 t	5 t	7.5 t	10 t
max. lifting height	340 mm	300 mm	300 mm	300 mm
Partial lift per ratchet	0.8 mm	0.4 mm	0.4 mm	0.3 mm
Lift per crank handle turn	8 mm	4 mm	4 mm	4 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 260 x 790 mm
Weight	~24.5 kg	~29.5 kg	~34 kg	~46 kg

ROJACK Mechanical Track Jack

47.14

For continuously adjustable and precise lifting of rails

- Quick lifting without load using the crank wrench
- Lifting loads via T-bar socket wrench



TECHNICAL SPECIFICATIONS

ROJACK 7,5

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	~15.5 kg

ROJACK Hydraulic Track Jack

47.17

For vertical lifting and setting down a rail lifter

- Consists of base plate, piston with cylinder, pump and oil reservoir
- Robust and particularly compact design
- Easy to use thanks to detachable hand lever
- Quick-action lowering device
- Lifting cylinder equipped with lifting nose as well as structured lifting area at the head



TECHNICAL SPECIFICATIONS

ROJACK HD 6,5

Max. lifting capacity	6.5 t
Max. lifting height	80 mm
Excavation height	45 mm
Dimensions (L x W x H) without lever	290 x 180 x 175 mm
Weight	~17 kg

For lifting, lining and slewing tracks or entire track panels

ITS BENEFITS. YOUR BENEFITS.

Perfect work quality & efficiency

- High lifting capacity of 20 t and slewing force of 4.25 t
- Rail tongs lift rail horizontally
- Ballast scraper: running surface always clear of ballast
- 12 V socket
- Engine stop button

Long service life & high availability

- Hydrostatic drive gear
- 20 l diesel tank capacity
- Flexible push-fit rubber wheels enable turning and unrailling at level crossings
- Optimum lifting point for transport due to lifting cross member
- Hydraulic oil filter with contamination indicator and replaceable filter element

Health & Safety

- Exhaust gas routing away from the operator
- Special sound-insulated design „Silent Pac“
- Optimised safeguards on hydraulic hoses, grease nipples, valves, adapters etc.
- Protection from weather due to easily adjustable and removable roof
- Heated seats (optional)

Applications

- During lifting work on switches
- During track tamping
- For insulated joint maintenance
- For lifting rails to replace rail pads
- For lifting and slewing track panels



TECHNICAL SPECIFICATIONS

ROALIGN D

Engine	air-cooled single-cylinder 4-stroke diesel engine; special sound-insulated design „Silent Pac“
Output	at 2000 rpm 7.2 kW (9.8 hp)
Fuel tank capacity	10 l
Performance	
Lifting capacity	at 150 bar 200 kN (20 t)
Lifting height	continuously adjustable 0 to 900 mm
Slewing force	at 150 bar 42.5 kN (4.25 t)
Slewing range	continuously adjustable 0 to 230 mm
Gauge	1435 mm
Self-propelled speed	continuously adjustable, forward and backward 0 to 13 km/h
Dimensions (L x W x H)	1700 x 3120 x 1950 mm
Weight (without auxiliary equipment)	~1600 kg
Upon request for additional charge	different track gauges, tarpaulin and much more

ACCESSORIES

9000100064	Hood-shaped cover	8478400032	Off-Tracking Equipment
8475520024	Driver's seat with heated seat	8478100032	Lifting Beam Short
8475200032	Roofing		

For transporting material, equipment and tools by rail. A large number of variations for different track gauges available with additional equipment.

- Light-weight, sturdy vehicle with a platform made of perforated aluminium plates with a non-slip surface
- No accumulation of water or dirt
- Ball bearing synthetic running wheels/optionally sheet steel jacketed
- Carrying handles on the sides
- Parking brake acting on two wheels

Various designs upon request.



TECHNICAL SPECIFICATIONS

ROLLY 0,7

Aluminium design	
Permitted carrying capacity max.	700 kg
Gauge	1435 mm
Running wheel diameter	90 mm
Dimensions (platform)	800 x 1620 mm
Weight	~29.5 kg

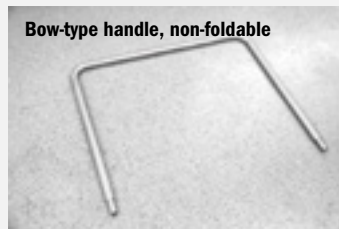
ACCESSORIES

- 9805112016 Bow-type handle, non-foldable (mounting kit)
 9805112001 Foldable bow-type handle with integrated dead man's brake (mounting kit), can be used for gauges 1435 – 1524 mm
 8005112013 Brake rod to sleeper crib

For screwed design

- 9869120035 Dead man's brake
 9869150035 Bow-type handle

Bow-type handle, non-foldable



Safe transport on four-wheeled trolley

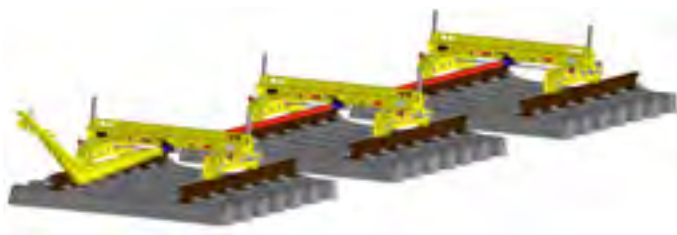
- Transports long-welded rails, track construction equipment, tools and construction parts
- Transport of long and extensive load by combining up to four devices with connecting rods

Options

- Pivot plate with push-fit uprights, swivelling range approx. $\pm 8^\circ$
- With or without parking brake

Version 5

- Device approval for operating and construction tracks (DIN EN 15945)
- Parking brake acts on all four wheels
- Optional trailer coupling on both sides and connecting rods


Version 5

Version 3

Version 5 trailer coupling

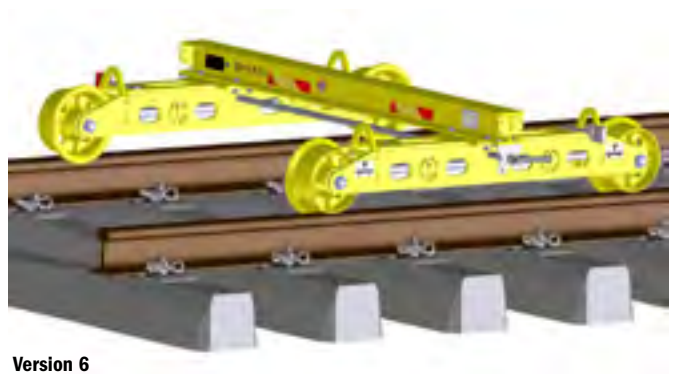
TECHNICAL SPEC.	ROLLY 15 VERSION 2	ROLLY 15 VERSION 3	ROLLY 15 VERSION 5	ROLLY 15 VERSION 6
Standard design	without pivot plate	with pivot plate	with or without pivot plate	with or without pivot plate
Permissible load	15 t	15 t	15 t	15 t
Wheelbase	480 mm	480 mm	1435 mm	1435 mm
Cross beam length	1900 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 4686 mm	1734 x 1900 x 498 mm or 1734 x 1900 x 390 mm	1734 x 1900 x 498 mm or 1734 x 1900 x 390 mm
Gauge	1435 mm	1435 mm	1435 mm	1435 mm
Weight	187 kg	252 kg	437 kg or 383 kg	336 kg or 282 kg
Trailer coupling	without	without	incl. 2	without

ACCESSORIES
Connecting rods

- 8820032000 Connecting distance 5700 mm
8820032100 Connecting distance 4565 mm

Further lengths available on request.

- 8261800005 push-fit uprights for version 2, 5 and 6 without pivot plate


Version 6



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

The running wheels of the rail vehicle are placed on the towing device, the vehicle is locked securely via the wheel flanges of its running wheels.

ITS BENEFITS. YOUR BENEFITS.

Cost and time savings due to modular design

- Quick assembly and recovery
- Low weight
- High carrying capacity due to sturdy diagonally interlocking frame (up to 300 kN)
- Reduces consequential costs (e.g. line closure) to a minimum

User-friendly due to modular construction

- Low weight of individual components

TECHNICAL SPECIFICATIONS		ROTOW
Gauge		1435 mm
Rail vehicles to be towed with running wheel		diameter 630 - 1250 mm
Pivoting range of rerailing bridge (centre pivot plate)		+/- 5°
Axle base		1300 mm
Running wheel (measuring circle)		dia. 300 mm
Tyre width		135 mm
Wheel flange height		32mm
Towing speed		40 km/h
Height of running wheel above top of rail (rail vehicle)		approx. 17 - 84 mm
Carrying capacity		300 kN (30 t)
Total weight		~630 kg
Modular design, individual component max.		~71 kg
Dimensions additional equipment		
Rerailing bridge (L x W x H)		approx. 2200 x 350 x 140 mm
Support width		~2200 mm

ACCESSORIES

8720180252	Mounting jack, carrying handles with hook-in claws for carrying or placing pre-mounted longitudinal beams onto wheel sets of towing device (2 off required per device)	8720180286	Transverse rerailing device
		8720180384	Slip-on cuff for fixing roller
		8720180220	Adapter for rerailing bridge LUKAS
8720180258	Adapter for rerailing bridge, type „DUO – LUKAS“	8720180222	Adapter for rerailing bridge MFD

ROLLY Track Trolley

52.30

For transporting track construction equipment, tools and materials

- Light metal construction
- Can be disassembled into 5 parts (without tools)
- Heaviest individual component 50 kg
- Easy to assemble and disassemble
- Ball bearing aluminium running wheels
- Insulated from rail to rail

Optionally:

- Dead man's brake on 2 wheels



TECHNICAL SPECIFICATIONS

ROLLY 2

Permissible load capacity max.	2 t
Gauge	1435 mm
Running wheel	diameter 200 mm
Dimensions (L x W x H)	1600 x 1890 x 890 mm
Weight without dead man's brake	~133 kg
Weight with dead man's brake	~146 kg

ROCOUPLE Tow bars

58.03/58.62

ROCOUPLE 100Straight

58.03/12.01 Straight tow Bar

- Length 1500 mm
- Used for Rockinger coupling/Rockinger coupling
- Max. permitted thrust-traction force = 100 kN
 $\Delta h \pm 100$ mm

ROCOUPLE 100Slanted

58.03/03 Slanted 800 580 3001

- Length 1450 mm
- Used for Rockinger coupling/Rockinger coupling
- Max. permitted thrust-traction force = 100 kN
 $\Delta h = 465$ mm max

ROCOUPLE 30Slanted

58.62/11 Slanted 800 586 2001

- Length 1450 mm
- Used for standard draw hook/Rockinger coupling
- Max. permitted thrust-traction force = 30 kN
 $\Delta h = 325$ mm max

ROCOUPLE 30Straight

58.62/12 Straight 800 586 2002

- Length 1250 mm
- Used for standard draw hook/Rockinger coupling
- Max. permitted thrust-traction force = 30 kN
 $\Delta h \pm 100$ mm



ROMOVER Wagon Mover

59.08

For moving wagons of up to 60 t total weight

- To be used on flat 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) 25000 x 1900 x 140 mm
- Weight ~12 kg



ROSTOP Drag Shoe**59.10****For dragging slowly rolling vehicles**

- Standard drag shoe of DB
- Double fish-plated
- Cap and handle replaceable
- Dimensions (L x W x H) 550 x 90 x 140 mm
- Weight ~8,5 kg

Various designs upon request.

**RORERAIL Relailing Frog****59.12****For rerailing rail vehicles**

- Paired use on standard rails with heavy wagon fleet
- Stable platform with double-sided rail access
- Maximum weight of wagon: 10 t / pair
- Dimensions (L x W x H): 800 x 600 x 270 mm
- Weight: ca. 174 kg / Pair

**ROTOOL Tilt Rail Tilting Device****68.03****For manual tilting of all common rail types**

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

**ROLIFT Sleeper Sleeper Lifting Device****69.20****For lifting lower lying sleepers during track assembly with hook-in part for grooved plates (K-type construction) and for sleeper screws (W-type construction)**

- Dimensions (L x B x H) 1040 x 60 x 190 mm
- Weight ~4 kg



TAMPING



ROTAMP

Vertical Tamper

For undertamping sleepers of all types with ballast and gravel

- Equips a tamping crew of 4 persons
- A vibration tamping unit consists of 3 assemblies, i.e. 2 vibratory tampers on both the left and right plus 1 generator and 1 distribution box with its connecting cable.
- Vibrating blade made of hard-wearing, high tensile manganese steel
- Supply cable approx. 10 m long with 16 A CEE plug
- Unlike impact tampers, the tamping unit does not damage concrete sleepers
- Power generator fitted in a tubular protective frame


TECHNICAL SPECIFICATIONS
ROTAMP E Basic

Vibration tamper	
Output	0.4 kW
Dimensions (L x W x H)	1050 x 280 x 600 mm
Weight	~34 kg
Distribution box	
Dimensions (L x W x H)	350 x 300 x 470 mm
Weight	~4 kg
Drive/power generator recommended output	= 4 kVA
ROLLY Light Track Trolley 51.12, gauge 1435 (special equipment)	
Dimensions (L x W x H)	806 x 1856 x 220 mm
Weight	~26 kg
Single-axle hand trolley for power generator (special equipment)	
Dimensions (L x W x H)	430 x 310 x 240 mm
Weight	~25 kg

ACCESSORIES

- 9008060025 Distribution box with emergency stop switch
- 9000600369 Single-axle hand trolley for transporting power generator with suspension eyes and rubber handles, with 2 running wheels, 350 mm dia.
- 9008120218 Cable drum/extension lead, approx. 30 m long
- 9008230097 Socket adapter
- 8868230001 Rail movement indicator, indicates the horizontal movement of the rail in relation to the ballast.



Generator and socket distributor



**Permanently stable track geometry.
Tamping in less than 2 mins/sleeper.**

For the safety of railways, a stable track geometry is vital. Deviations from the nominal geometry caused by level errors jeopardise regular railway operation. They result in restricted speed sections or even line closures. The ROBEL vertical tamping principle ensures an exact interlocking of the ballast. The high tamping performance of ROTAMP leads to more tamping operations time unit and goes easy on the operator. In addition, ROBEL developed the patented 2-level vibration decoupling, which minimizes the hand-arm vibration. The low weight and handy construction makes working comfortable.



ITS BENEFITS. YOUR BENEFITS.

Track stability with ROBEL vertical tamping principle

- Optimum compaction of ballast under the sleeper
- High bearing load of the track bed due to tightly interlocked ballast
- Continuous railway operation and better utilisation of line capacity
- Long durability of the ballast

Great tamping performance at high ergonomics

- Minimum hand-arm vibration thanks to patented 2-level vibration decoupling
- Relief of the operator due to low weight of the machine
- Thermal shielding cover
- Exhaust gas routing away from the operator
- Option: Central safety shutdown

Accurate work process cut costs

- Ballast-friendly tamping avoids replacing sleeper and ballast
- Low wear costs due to solid design
- Replaceable tamping tool made of wear-resistant steel

TECHNICAL SPECIFICATIONS

ROTAMP P2

62.05 DRIVE AIR-COOLED 2-STROKE ENGINE

Type	Kawasaki TJ45E
Output	1.42 kW at 8000 rpm
Dimensions (L x W x H)	420 x 500 x 1230 mm
Weight	~24.3 kg

ROTAMP E

62.05 DRIVE ELECTRIC MOTOR

Type	ATB 400 V, 50 Hz
Output	0.75 kW at 2850 rpm
Dimensions (L x W x H)	360 x 460 x 1080 mm
Weight	~24.5 kg

ROTAMP HD

62.05 DRIVE HYDRAULIC MOTOR

Output	3 kW at 3500 rpm
Dimensions (L x W x H)	420 x 500 x 1230 mm
Weight	~24.9 kg

ROTAMP P4 Light

62.05L DRIVE AIR-COOLED 4-STROKE PETROL ENGINE

Type	Dolmar
Output	1.5 kW at 7500 rpm
Dimensions (L x W x H)	410 x 510 x 1200 mm
Weight	~19.9 kg

ROTAMP P4 Short Light

62.05L SHORT VERSION

Type	Dolmar
Output	1.5 kW at 7500 rpm
Dimensions (L x W x H)	410 x 510 x 1080 mm
Weight	~19.6 kg

ROTAMP B

62.20L MODULAR BATTERY POWERED

Power	1600 W
Dimensions (L x W x H)	410 x 510 x 1120 mm
Weight	~24,5 kg

More information on page 7.



ACCESSORIES

62.05 Safety cut-off: On the work site the audibility of acoustic warning signals cannot be 100% guaranteed. For the vertical tamper a safety cut-off was designed that will alert to dangers when necessary. The operator can concentrate on tamping on the work site and is warned of approaching trains by the central cut-off of the vertical tamper, initiated by the lookout who can stop up to 4 tampers simultaneously. This indicates to the operators that they have to leave the danger zone immediately.

8809910004	Conversion kit, 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



62.05 and 62.05L

8808960110	Transport box
8868230001	Rail movement indicator, indicates the horizontal movement of the rail in relation to the ballast.
8809910009	Presentation stand





Mechanised with a tamping unit it corrects track geometry errors of small work sites with optimum compacting of ballast. MINIMA 1 is equipped with 4 individual, laterally

swivelling tamping tools with edges highly wear-resistant due to armouring via hard electrodes.

ITS BENEFITS. YOUR BENEFITS.

Efficient & maintenance-friendly

- Lasting track stability due to excellent ballast interlocking
- Low maintenance and servicing costs due to simple, solid and mature technology
- No manual work thanks to full mechanisation

Optimum availability

- Thanks to simple, solid and mature technology

Flexible & easy to operate

- Wide field of application due to its optimum to its optimum size, even on narrow gauge railways
- Easy regauging
- Easy to transport, can be simply loaded on lorry

Applications

- Small work sites
- Factory tracks

TECHNICAL SPECIFICATIONS

ROMITAMP **Single**

Length	2700 mm
Width	2600 mm
Height	2000 mm
Wheel base	1500 mm
Wheel diameter	400 mm
Engine output	35 kW (47 hp) at 2300 rpm
Driving speed	15 km/h in both directions, continuously adjustable
Weight	~3 t

ACCESSORIES

Track Jack ROBEL 47.14
Track Gauge and Superelevation Measuring Device ROBEL 83.37

Please contact your ROBEL partner for details on accessories.



Mechanised with 2 tamping units it corrects track geometry errors of medium-sized work sites with optimum compaction of ballast.

All necessary processes are combined in one machine: lifting, slewing, tamping and levelling

ITS BENEFITS. YOUR BENEFITS.

Economic efficiency & low maintenance

- Lasting track stability due to excellent ballast interlocking
- High throughput due to proven asynchronous pressure vibration tamping system
- Tamping of double sleepers
- Low maintenance and servicing costs due to simple, solid and mature technology

Flexible & easy to operate

- Integration of all necessary processes in one machine: lifting, slewing, tamping and levelling
- Movable base frame (hydraulically or mechanically adjustable) for different sleeper spacing
- Suitable for loading on lorry

Applications

- Medium-sized work sites
- Factory tracks
- Mines

TECHNICAL SPECIFICATIONS

ROMITAMP Double

Drive	diesel engine
Type	Hatz 4L41C
Output	47 kW (64 hp) at 2300 rpm
Length	2650 mm
Width	2780 mm
Height	2225 mm
Wheel base	2100 mm
Wheel diameter	400 mm
Driving speed	15 km/h in both directions, continuously adjustable
Weight	~5.5 t

ACCESSORIES

Track Gauge and Superelevation Measuring Device ROBEL 83.37
Test pendulum
Off-tracking rails with adjustable blocks
Hydraulic centre pivot plate

4 traversing rollers
Optical Track Levelling Device
Equipment for tamping double sleepers
Please contact your ROBEL partner for details on accessories.



For maintenance of tracks, switches and crossings

ITS BENEFITS. YOUR BENEFITS.

Rentability & Quality

- Asynchronous pressure vibration tamping system: powerful tamping unit for local correction of track level errors
- Quick return on investment due to high tamping performance and quality

Flexibility

- Compact vehicle concept for easy transport
- Laterally movable tamping unit frame at the front of the machine
- Four tamping tools can be slewed sideways individually
- Edges of tamping tool pressure plates with highly wear-resistant armouring via hard electrodes
- Precise motion sequences of the hydraulic work units thanks to linear control

- Operator's seat with all of the controls located immediately behind the tamping unit
- Hydrostatic drive with hydraulic motor acting on front axle via helical gearbox
- Braking of machine with hydrostatic drive, mechanical parking brake
- Even system pressure and non-jerky operation of all hydraulic work sequences via pressure oil reservoir guaranteed
- Hydraulic oil tank with intake and return line filter

Applications

Short to medium-length track sections

TECHNICAL SPECIFICATIONS ROMITAMP Switch

Dimensions (L x W x H)	5850 x 2550 x 2660 mm
Axle base	2450 mm
Wheel diameter	550 mm
Output 61 kW at	2200 rpm
Driving speed	20 km/h in both directions, continuously adjustable
Weight	~8.35 t

ACCESSORIES

Trailer with electric winch for road transport
47.14 Mechanical Track Jack

Please contact your ROBEL partner for details on accessories.

SECURING MEASURING

SECURING/MEASURING



ROCLAMP

Rail Clamp

For true-to-form and secure connection of two rail ends at insulated joints, fractured rails and determined rail defects, from prevention to repair. Various possibilities of use due to different types of rail clamps for different rail types.

The clamp is fitted directly onto the rail joint using 2 flat fish-plates. It can also be deployed for thermite welding with the use of cropped fish-plates (supplied by customer). Even with little space between rail foot and ballast bed.

ITS BENEFITS. YOUR BENEFITS.

Flexibility & cost efficiency thanks to

- Compact designs
- Minimum ballast excavation required, also suitable for the majority of slab tracks
- Long service life with reduced checking frequency and maintenance effort
- High passing speed depending on rail defect

Safe and user-friendly due to

- Securing fish-plate with triple safety effect
- Colour coding
- Precise adjustment to rail profile and fish-plate
- Connector and securing fish-plate are secured with the same wrench size and torque
- DB user acceptance (approval)

Please ask your ROBEL contact about your specific rail-fishplate combination (with suitable fishplate).



Version 4 Standard long

ROCLAMP Long Vers4

Dimensions (L x W x H)	190 x 280 x 130 mm
Tightening torque	580 Nm
DB user acceptance (approval)	up to 160 km/h and up to 200 km/h
for construction and operating tracks	(with internal transverse defect)
For rail types	UIC60, S49, S54, UIC54, U50, BS100A, (with suitable fishplate)
Weight	~21.5 kg



Version 5 Standard short

ROCLAMP Short Vers5

Dimensions (L x W x H)	105 x 280 x 130 mm
Tightening torque	580 Nm
DB user acceptance (approval)	up to 160 km/h and up to 200 km/h
for construction and operating tracks	(with internal transverse defect)
For rail types	UIC60, S49, S54, UIC54, U50, BS100A, (with suitable fishplate)
Weight	~12.5 kg



Version 4 AUS

ROCLAMP Long AUS

Dimensions (L x W x H)	105 x 280 x 130 mm
Tightening torque	580 Nm
Approval	up to 160 km/h
For rail types	AS41kg, AS47 kg, (with suitable fishplate)
Weight	~12.5 kg



Version 6	ROCLAMP Long Vers6
Dimensions (L x W x H)	190 x 280 x 130 mm
Tightening torque	580 Nm
Approval	up to 160 km/h
For rail types	OT50, 91lb NZR, AS50kg, (with suitable fishplate)
Weight	~21.5 kg



Version 7 AUS	ROCLAMP Long Vers7 AUS
Dimensions (L x W x H)	190 x 280 x 130 mm
Tightening torque	580 Nm
Approval	up to 160 km/h
For rail types	AS53kg, AS60kg, AS60kg, (with suitable fishplate)
Weight	~21.5 kg



Version 9 short	ROCLAMP Short Vers9
Dimensions (L x W x H)	105 x 280 x 130 mm
Tightening torque	300 Nm
Network Rail approval	up to 160 km/h
For rail types	BS113A, UIC60, (with suitable fishplate)
Weight	~12.5 kg



Version 10	ROCLAMP Long Vers10
Dimensions (L x W x H)	190 x 280 x 130 mm
Tightening torque	300 Nm
Network Rail approval	up to 160 km/h
For rail types	BS113A, UIC 60, (with suitable fishplate)
Weight	~12.5 kg



Version 11 short	ROCLAMP Short Vers11
Dimensions (L x W x H)	105 x 280 x 130 mm
Tightening torque	300 Nm
Approval	up to 160 km/h
For rail types	63T, 50T, UIC60, (with suitable fishplate)
Weight	~12.5 kg



Version 13	ROCLAMP Short Vers13
Dimensions (L x W x H)	105 x 280 x 130 mm
Tightening torque	580 Nm
Approval	up to 160 km/h
For rail types	UIC60, DSB45, (with suitable fishplate)
Weight	~12.5 kg



ACCESSORIES

9002501790 Torque wrench
With adjusting scale
Automatic release
Torque range 130 – 650 Nm
3/4 inch square drive
Weight ~2.9 kg
Reversible push-in ratchet



Torque wrench

9002501120 Socket A/F41, hexagon socket wrench insert
3/4 inch square drive



Socket A/F 41



Mobile fencing system for securing work sites

Protection of workforce from dangers arising from trains passing on operating adjacent tracks. Numerous applications both for permanent use as well as for temporary daily use. Compliant with DB AG group requirements (DS132 03, section 5, paragraph 6).

ITS BENEFITS. YOUR BENEFITS.

User-friendly

- Easy and quick assembly
 - Low weight in spite of robust tubular structure
 - Length-adjustable, galvanised and insulated fence post elements in solid or collapsible design
 - Easy adjustability 2 - 2.5 m
 - Insulated reception tube for aluminium safety fence
- Image caption: Length adjustment

Improved safety

- Real and visual barrier
- Concentration on main activity in closed-off area
- Demarcation
 - to adjacent track
 - from danger zones on track
 - for paths and roads
 - from on-track machines
 - during work at nighttime
 - from various assemblies and work sites
- Compliant with the Accident Prevention and Safety Measures in the Danger Zones of Railway Tracks (GUV 15.2, DS 13.203, Germany)
- GS approved

Potential savings

- No need for acoustic disruptive crew warning signals
- Setup lengths can be extended flexibly
- For trains passing on adjacent tracks at a maximum speed up to 160 km/h
- High quality and flexibility in daily use

Distances from centre of track

The carrier element can be extended to the required notch and fixed.

Number of notches	speed range up to	distance from track centre
6	160 km/h	2500 mm
5	140 km/h	2400 mm
4	120 km/h	2300 mm
3	90 km/h	2200 mm
2	70 km/h	2100 mm
1	50 km/h	2000 mm

TECHNICAL SPECIFICATIONS

Weight per fence post element

ROFENCE

~7 kg

ACCESSORIES

- 9800693077 Plastic grating, red, 0.5 m high, 50 m each
- 8649910001 Barrier tape holder
- 9000203470 Barrier tape
- 9800693050 Aluminium safety fence
- 9806930001 Fence post element for aluminium safety fence



Ensures supply of electrical power, independent from the mains supply.

In various designs, e.g. with trolley or on transport trolley, generator output as per customer requirement.

- Design in accordance with VDE (German Association of electrical Engineers), GS certification mark
- Noise emission complies with EEC Directive 84/536 on Noise Protection
- Sound power level LWA 100 dB (A) pW
- Incl. GW 308 (ISO monitoring with switch-off), Protection type IP 54
- Protection type IP 54 with oil level monitoring
- With oil level monitoring
- Long operating times due to large tank
- CE declaration of conformity
- Operating instructions and spare parts list



TECHNICAL SPECIFICATIONS	ROPOWER P4 270	ROPOWER P4 390
Drive	4-STROKE PETROL ENGINE	4-STROKE PETROL ENGINE
Type	HONDA GX 270, with oil level monitoring	HONDA GX 390, with oil level monitoring
Output	5.4 kW at 3000 rpm	9.6 kW at 3600 rpm
Unit	fitted in a tubular protective frame with 2 lifting handles with GW 308, ISO monitoring with switch-off	fitted in a tubular protective frame with 2 lifting handles with GW 308, ISO monitoring with switch-off
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	~89 kg	~100 kg

TECHNICAL SPECIFICATIONS	ROPOWER PB&S	ROPOWER D
Drive	4-STROKE PETROL ENGINE	DIESEL ENGINE
Type	Briggs&Stratton, with oil level monitoring	HATZ 1B40, with oil level monitoring
Output	14.7 kW at 3600 rpm	Output 7.3 kW at 3600 rpm
Unit	with GW 308, ISO monitoring with switch-off	fitted in a tubular protective frame with 2 lifting handles with GW 308, ISO monitoring with switch-off
Output	9.0 kVA/400 V and 6.0 kVA/230 V, 50 Hz	4.7 kVA/400 V and 4 kVA/230 V, 50 Hz
Protection type	IP 54 (protection insulated)	IP 54 (protection insulated)
Weight	~134 kg	~122 kg

ACCESSORIES

- 9000600369 Single-axle trolley for transporting the generator, with suspension eyes and rubber handles, with 2 running wheels of 350 mm dia.
- 9008060025 Distribution box with emergency stop switch
- 9008120218 Cable drum/extension lead, approx. 30 m long
- 9008230097 Socket adapter from Euro socket CEE16A230V to Schuko socket



Trolley



Cable drum



Distribution box

For extensive lighting of work sites
Improved work quality & safety thanks to

- Good illumination of work area
- Sturdy design and stability
- Quick and easy assembly

ROLIGHT 2x500, 2x1000

Consisting of height-adjustable light mast with 1 or 2 halogen floodlights (1000 W) Floodlights

- Telescopic mast with pneumatic hand pump
- Basket provides improved stability
- Floodlights can be swivelled up to 30°

Flexibility

Compact design, takes little space during transport and working

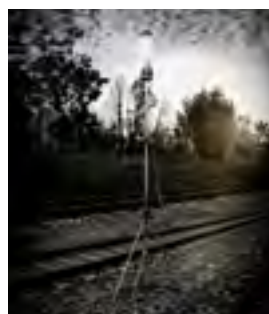
6 versions with varying luminosity and outputs.


TECHNICAL SPECIFICATIONS		ROLIGHT 2x0,5	ROLIGHT 2x1
Output		2 x 500 W	2 x 1000 W
Light mast height		max. 4.5 m	
Connecting cable		7 m	
Dimensions			
Light mast folded		1200 x 350 x 100 mm	
Basket folded		650 x 650 x 100 mm	
Basket (ready-to-use)		650 x 650 x 400 mm	
Weight		~43.5 kg	
Optional			
Generator		3.8 kVA	
Drive		4-stroke petrol engine	
Type		Honda GX240	
Protection type		IP 54/55	
Number of sockets		2	
Voltage/frequency		234 V/50 Hz	

ROLIGHT KLL

Equipped with special compact fluorescent lamps with very high output at low current consumption. 4 of the 8 lamps can be turned off, providing glare-free light in one direction.

- Illuminated area of up to 700 m²
- Can withstand wind speeds of up to 120 km/h due to special stand
- Saves space and is ready for use in no time
- Supplied in impact-resistant flight case



TECHNICAL SPECIFICATIONS	ROLIGHT KLL
Version with 230VAC	
Diameter	200 mm
Length	900 mm
Lamp weight	~8.2 kg
Protection type	IP44
Protection class	I
Optimum height in use	3500 mm
Assembly time	~1 min
Stand weight	~21.5 kg
Illuminated area	700 m ²
Number of lamps	8x80 W
Output	365-710 W*
Supply voltage	230 VAC
Generator power required (230VAC)	1.0 kW
*depending on operating mode	

ROLIGHT LED

Suitable for all areas requiring extensive lighting. Available versions with one, two or four lamps. High light output at low power consumption.

- Maintenance-free
- Wide service temperature range: -40°C to +55°C
- No UV/IR radiation
- Extendable from 1000 to 3500 mm
- Folds down to 1000 x 190 x 190 mm



TECHNICAL SPECIFICATIONS

ROLIGHT LED

LED lamp	
LED output	40 W
Voltage	230 VAC
LED lifespan	> 50,000 h
Housing + reflector material	Aluminium
Protection type/class	IP65/I
Lamp weight	~3.3 kg
Dimensions of a lamp (L x W x H)	262 x 185 x 230 mm

ROLIGHT B LED

- Battery operated version
- Maintenance-free and no cable required
- Wide service temperature range: -40°C to +55°C
- No UV/IR radiation
- Extendable from 1000 to 3500 mm
- Folds down to 1000 x 190 x 190 mm



TECHNICAL SPECIFICATIONS

ROLIGHT B LED

Lighting duration	10 h at 100% luminosity
	20 h at reduced luminosity
Charging time	6 h/100% charged
LED output	30 W
Charging voltage	230 VAC
Battery LI-ION	10 Ah 36 VDC
Luminous flux	100 lm/W
Cover	5 mm safety glass
Protection type/class of lamp and battery	IP65/III
Protection type/class of charger	IP44/I
Weight including flight case	~22 kg
Dimensions of flight case (L x W x H)	1250 x 430 x 220 mm

MEASURING DEVICES

We calibrate your measuring devices! Contact your ROBEL partner.

ROMEAS Versine

Versine Measuring Device

82.05

For measuring track curves

- Not obstructionless
- Two angle supports in aluminium with level
- 45 m chord
- Ruler
- Complete in canvas bag
- Weight ~2.6 kg



ROMEAS Versine

Versine Measuring Device

82.06

For easy checking and determination of versines in track curves

- Can be used for all common rail profiles
- Measuring chord adjustable to rail height and from side to side
- Easy attachment to rail foot
- Obstructionless
- Consisting of 2 tensions clamps with rope drum and 70 m nylon rope
- Weight ~4.3 kg



ROMEAS Level

Sighting and Levelling Unit

82.07

For determining the longitudinal level (with reference to the top of rail) and cross level tasks

- Scales every 10mm, alternating in 1- and 2-mm graduation
- Minus zone of level slide marked with a red bar
- Telescope magnification 24-fold
- Lens opening 36 mm
- Portrait image
- Shortest adjusting distance ~0.4 m
- Adjusting distance ~1.2 mm to 30 m
- Rotation range with micro adjustment 360°
- System height above top of rail 1300 mm
- Tilting device used as sighting facility
- Tilting range $\pm 40\text{‰}$
- Levelling rod used for levelling at fixed points
- Scale graduation 1 mm
- Measuring range of basic scale $\pm 800\text{ mm}$
- Measuring range of adjustable level slide
 - + 150 mm
 - 100 mm
- Total weight ~13 kg



ACCESSORIES

- 9800820010

Target rod lighting
consisting of: 1 cold cathode neon lamp, 12 V,
for side lighting of adjustable level slide,
including one rechargeable battery.
Battery, charger, shoulder bag
- 9800820001

Push-on part 0 - 150 (Standard = 0 - 50)
- 9800820008

Transport and storage box of water-resistant,
glued plywood with carrying handles

ROMEAS Track Square

82.11



For aligning sleepers

- Double leg
- In robust aluminium design
 - With inner and outer stops
 - Insulated from rail to rail
 - Weight ~3.5 kg

TECHNICAL SPECIFICATIONS

ROMEAS Square

	FIXED DESIGN	COLLAPSIBLE DESIGN
Dimensions (L x W)	1700 x 1400 mm	1700 x 700 mm
Weight	~3.6 kg	~3.2 kg

For measuring

- Track gauge
- Check rail gauge
- Guard rail gauge
- Flange groove
- Superelevation

Measuring range:

- Track gauge 1435 mm -10 mm to +40 mm
- Check rail gauge 1394 mm -10 mm to +10 mm
- Back to back distance (2nd check rail gauge): 1332 mm to 1365 mm
- Flange groove 31 mm to 60 mm
- Measuring accuracy +/- 0.5 mm
- Weight ~2.5 kg


ACCESSORIES

- 9891080091 Conversion kit for grooved rails
 9002200216 Bag for gauge 1435
 R__KAL_INT Calibration



Conversion kit for grooved rails

For measuring

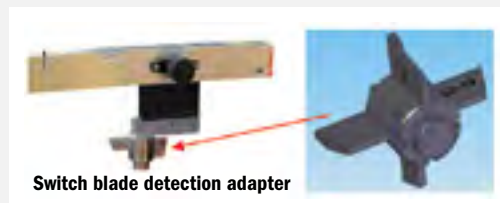
- Track gauge
- Check rail gauge
- Guard rail gauge
- Flange groove
- Superelevation
- Light-weight, handy size
- Aluminium rectangular tube
- Gold anodised, insulated
- Superelevation measuring integrated

Measuring range:

- Track gauge 1435 mm; 1415 mm to 1475 mm
- Check rail gauge 1385 mm to 1405 mm
- Back to back distance 1344 mm to 1361 mm
- Flange groove 30 mm to 83 mm
- Superelevation -30 mm to +200 mm
- Measuring accuracy +/-0.5 mm
- Scale graduation 1 graduation mark = 1 mm
- Weight ~2.5 kg


ACCESSORIES

- 9808320003 Switch blade detection adapter,
 DB with check gauges L1, L2, L2-19, L2-21
 9002200169 Switch blade detection adapter with check gauges L1, L2
 9808307014 Transport box for gauge 1435
 9002200216 Transport bag
 R__KAL_INT Calibration
 9808307013 Measuring bolt set for grooved rails



Switch blade detection adapter


 Measuring bolt
 dia. 20 mm


Measuring bolt set for grooved rails

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

- Attached to the rail by magnets
- Exact position adjustable via a level
- Weight ~1.2 kg



For measuring the distance between two adjoining rails

- Aluminium
- With measuring scale
- Measuring range 1 mm to 15 mm
- Weight ~0.1 kg



For easy checking of wear spots in the switch blade area as per DB regulation

- Insulated from rail to rail
- With test gauge dia. 4 mm
- Weight ~1.4 kg



For measuring:

- Track gauge
- Superelevation

- Light-weight, handy measuring device
 - Track gauge -10 mm to +40 mm
 - Superelevation -30 mm to +200 mm
 - Reading accuracy 1 graduation mark = 1 mm
- Other gauges available upon request.

Measuring range:

- Track gauge 1435 mm -10 mm to +40 mm
- Superelevation -35 mm to +195 mm
- Equipped with measuring bolt for flat bottom rails (14 mm)
- Weight ~2.7 kg



ACCESSORIES

- | | |
|------------|---|
| 9891832120 | Stop bolt for 9 mm grooved rails, 3 nos. are required |
| 9808307014 | Transport box for gauge 1435 |
| R_KAL_INT | Calibration |
| 9002200216 | Transport bag |



Stop bolt for grooved rails

For measuring

- **Track gauge**
- **Superelevation**

- Light-weight, handy size
- Aluminium rectangular tube
- Gold anodised, insulated
- Superelevation measuring integrated
- Weight ~2.5 kg

Other gauges available upon request.

Measuring range:

- Track gauge 1415 mm to 1500 mm
- Superelevation -30 mm to +200 mm
- Measuring accuracy +/-0.5 mm
- Scale graduation 1 graduation mark = 1 mm


ACCESSORIES

9808337007	Measuring bolt set for grooved rails
9808307014	Transport box for gauge 1435
9002200216	Transport bag
R__KAL_INT	Calibration

For measuring

- **Track gauge**
- **Check rail gauge**
- **Flange groove**
- **Back to back distance**
- **Cross level on flat bottom and grooved rails**

- Combined track construction measuring device for new track and maintenance
 - All values are clearly shown on a display and therefore can be viewed easily at one glance
 - Made of gold anodised sturdy aluminium tube, with integrated electronics and measuring mechanics
 - With turning knob for gauge adjustment
 - Weight ~2.5 kg
- Other gauges available upon request.

Measuring range:

- Track gauge -20 mm/+40 mm
- Superelevation +/- 200 mm
- Flange groove 20 - 128 mm
- Check rail gauge 1347 - 1455 mm
- Back to back distance 1327 - 1435 mm


ACCESSORIES

9808350008	Transport case
R__KAL_INT	Calibration
9002200216	Transport bag



For measuring the distance between centre of track and platform (ramp) and for measuring the height from top of rail to platform edge

- Gauge 1435 mm
- Made of rectangular aluminium tube, insulated
- With superelevation and track gauge measuring device
- Weight ~5.5 kg

Measuring range:

- Horizontally from centre of the track 0 mm to 2050 mm
- Vertically from top of rail 0 mm to 1200 mm
- Track gauge - 10 mm to + 40 mm, 1435 mm
Other gauges available upon request.
- Superelevation - 30 mm to + 200 mm



ACCESSORIES

- 9808387007 Transport box for device with superelevation
 9808387004 Transport box for device without superelevation
 9002200216 Transport bag

For measuring vertical and lateral rail wear (at 22.5, 45 and 67.5 degrees to the rail centre line).

- For rail types S41, S49, S54 and UIC60.
- With handy plastic case
- Version depending on rail type
SKM1 Standard equipment: S49, S54, UIC60
SKM2 Standard equipment: S49, S54, UIC60
- Special equipment: Other rail profiles
- Weight ~1.2 kg/~1.5 kg

Measuring range:

- SKM1, 0°, 45°
- SKM2, 0°, 22.5°, 45°, 67.5°



For checking measurements L + L1 during build-up welding work in switches and crossings

- Galvanised surface
- For rails S 49/54 UIC 60
- Special equipment: Other rail profiles
- Weight ~0.6 kg



For measuring the length of rail sections

- Version for S49, S54, UIC 60
- Measuring range up to 10,000 m, measuring tolerance 0.02%
- Special equipment carrying case
- Weight ~5.5 kg


ACCESSORIES

- 9891850005 Carrying case
Robust design with carrying handle
Of rugged, water-proof material

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

Distance and level measurements to the fixed point can be established accurately in a single operation.

- Model includes transport case
- Measuring range Measurable distance up to 4262 mm
- Measurable height up to 700 mm
- Weight ~6.5 kg


For measuring the rail temperature

- Round model with magnet
- Nominal Size 40 mm
- Outer diameter approx. 60 mm
- White dial plate with easy-to-read scale
- Measuring range -30 – 70° C / -20 – 150° F
- Weight ~0.07 kg


ACCESSORIES

- 9000400207 Aluminium screw cap box

EQUIPMENT TOOLS

A close-up, low-angle shot of a worker's hands and arms as they work on railroad tracks. The worker is wearing brown leather work gloves and a black wristband. They are holding a large hammer with a wooden handle in their right hand, poised to strike. In their left hand, they hold a silver, curved metal tool labeled "ROBEL". The tool is positioned over a clip bolt on the track. The track itself is made of steel rails on wooden ties, surrounded by gravel. The background shows a line of green trees under a bright, hazy sky, suggesting an outdoor construction or maintenance site.

ROTOOL Eject

Clip Bolt Ejecting Device

ROTOOL Punch Drift Punch 69.01

Versions:

- Long version 290 mm
- Short version 210 mm
- 15 mm
- 16 mm

Hickory handle:

- Long version ~1.8 kg
- Short version ~1.4 kg


ROTOOL Crow Crow Bar 69.02

- With cutting edge and point
- 1.25 m ~6.2 kg
- 1.5 m ~8 kg


ROTOOL Hammer Hammer 69.03

- For positioning rails into grooved plates and for driving plastic dowels into concrete sleepers
- With wear-resistant, replaceable plastic inserts
- Hickory handle ~5.2 kg


ROTOOL Ram Track Ram 69.04

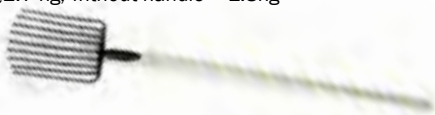
- To be used by 4 persons
- Wear-resistant, replaceable plastic inserts
- Weight ~103 kg


ROTOOL Sleeper Sleeper Hammer 69.06

- Forged with oval eye
- Depending on size ~5.5 kg, ~6.5 kg, ~9 kg


ROTOOL Fork Ballast Fork 69.07

- 9 arms
- Weight with handle ~2.7 kg, without handle ~1.8kg


ROTOOL Lever Points Lever 69.08

- For installing and removing plastic clips
- Weight ~6 kg


ROTOOL Shovel Shovel Made of Steel Sheet 69.09

- Available with or without handle
- Weight with handle ~1.9 kg, without handle ~1.1 kg


ROTOOL Broom Switch Broom 69.10

- With or without handle
- Locking handle holder for multiple use
- Optionally with ice scraper
- Weight ~1.1 kg


ROTOOL Chisel Cold Chisel 69.12

- C45 steel, tempered
- Cutting edge with grind
- ~1.7 kg


ROHORN Single Single-Tone Signal Horn 69.13

- „Blowing horn“
- 1 bell mouth


ROHORN Multi Multi-Tone Signal Horn 69.15

- 2-tone signal
- With 4 bell mouths
- With replaceable mouth piece
- Weight ~0.8 kg


ROTOOL Eject Clip Bolt Ejecting Device 69.16

- For removing rusted clip bolts from grooved base plates
- Weight ~4 kg


Torque Wrench

- | | |
|------------|---------------------------|
| 9002501218 | Suitability 130 - 650 Nm |
| 9002501790 | Suitability 130 - 650 Nm |
| 9002501248 | Suitability 400 - 1000 Nm |

SERVICE





What does good Service stand for?

Reliable stand-by duty of rail construction machines is a vital part of economic operation. Failure free performance and longtime availability reduce dwell time and cost. Preventative maintenance secures high functionality and minimizes subsequent damage.

Good service guarantees both a long life span and value preservation and is therefore the base for effective use of hand guided machines and equipment.

By buying a ROBEL product, you do not only get a high quality machine, but also a reliable service partner.



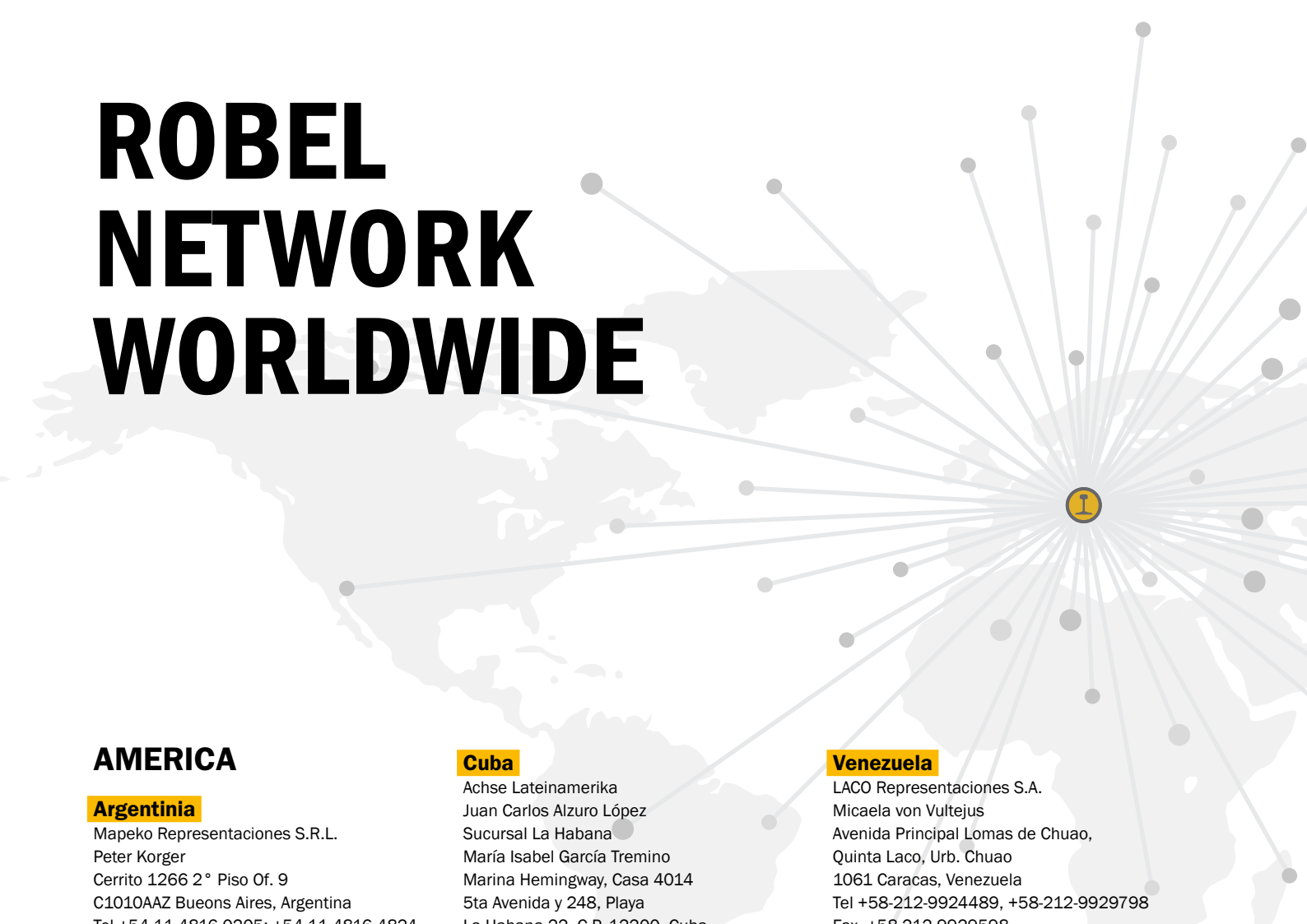
ROBEL offers expert advise and a wide variety of service activities, helping you to successfully do your job:

- **Maintenance and repair using certificated original parts**
- **Modification and adjustment**
- **Damage assessment**
- **Calibration of measuring tools**
- **Original spare and wearing parts**
- **Machine demonstrations**
- **Phone consulting service**
- **Training of operators and workshop personnel**

ROBEL Service stands for schedule adherence, for a good price performance ratio and for flexible, non-bureaucratic support during the whole life-span of a product.

Take advantage of our service portfolio and use the full potential of your machine!

ROBEL NETWORK WORLDWIDE



AMERICA

Argentina

Mapeko Representaciones S.R.L.
Peter Korger
Cerrito 1266 2° Piso Of. 9
C1010AAZ Bueons Aires, Argentina
Tel +54 11 4816 0205; +54 11 4816 4824
Fax +54 11 4816 4806
E-Mail: mapekosrl@gmail.com
www.mapeko.com.ar

Brazil

Plasser do Brasil
Sjöström, Göran
Rua Campo Grande 3050
Campo Grande-Rio de Janeiro
Tel +55-21-3470-7800
E-Mail: diretoria@plasser.com.br

Chile

IBD Asesorías y Desarrollo de Negocios
Internacionales LTDA
Rodolfo Goyeneche
Seminario 160, Santiago, Chile
Tel +56-2-2222-96-33
Fax +56-2-2363-97-83
E-Mail: guido.goyeneche@mercanta.cl
Marck Smol
E-Mail: marck.smol@mercanta.cl

Colombia

Representaciones Pinz & Prieto SAS
CR 7 N° 74 56 OF 409
BOGOTA D.C., Colombia
Tel +57-1-3131616
Fax +57-1-3261721
Harry Pinz
E-Mail: hpinz@aon.at
Rodolfo Prieto
E-Mail: prietor@cable.net.co

Cuba

Achse Lateinamerika
Juan Carlos Alzuro López
Sucursal La Habana
María Isabel García Tremino
Marina Hemingway, Casa 4014
5ta Avenida y 248, Playa
La Habana 22, C.P. 12200, Cuba
Tel +537 2 04 93 70
Fax +537 2 04 93 73
E-Mail: achse@enet.cu
www.achse-lateinamerika.com

Peru

Global Support Systems SA
Sr. Gonzalo Arrieta
Johannes Brahms 159
San Borja Lima, Perú
Tel +51 1 367 35 50
E-Mail: ventas@gss-peru.com
www.gss-peru.com

Mexico

Ruben Alejandro Chavez Diaz
AC DIESEL
Periferico Oriente # 75,
Col. Constitucion De 1917
C.P. 09260 Ciudad de Mexico, Mexico
Tel +52-555-6905-045
Fax +52-555-6422-651
E-Mail: acdiesel1@prodigy.net.mx

Uruguay

Potencia S.R.L.
Rafael Crespo Matí
Ambrosio Velazco 1589
11400 Montevideo, Uruguay
Tel +598 2 614 24 07
Fax +598 2 614 24 08
E-Mail: Rafael@potenciauruguay.com.uy

Venezuela

LACO Representaciones S.A.
Micaela von Vultejus
Avenida Principal Lomas de Chuao,
Quinta Laco, Urb. Chuao
1061 Caracas, Venezuela
Tel +58-212-9924489, +58-212-9929798
Fax +58-212-9929598
E-Mail: lacorep2@gmail.com

EUROPE

Belgium

RAIL & ROAD SERVICE Sprl
Olivier Saucez
27, route du Cronchamps
4970 Stavelot, Belgium
Tel. +32-474-770 527
E-Mail: saucez@rail-road-service.com

Bosnia Herzegovina

SATI-SAN
Ivana Racic
Nemanjina 4/II/216
11000 Belgrad, Republic of Serbia
Tel +381 11 3613 861
Mob +381 64 1597 697
Fax +381 11 3613 861
E-Mail: ivana.racic.bgd@gmail.com

Bulgaria

ET „M.T.V.-M. Ilev“
Maschinen und Technik Vertrieb
Mihail Ilev
Opaltschenska Str. 92, Bl.44, G.Ap.40
1233 Sofia, Bulgaria
Tel +35 929 311 153
Fax +35 929 311 153
E-Mail: mihail.ilev@gmx.net

Denmark

Dantor
Torben Holst
Københavnsvvej 81
4000 Roskilde
Tel +45-40-26-65-32
E-Mail: th@dantor.dk

Germany

REGIONAL REPRESENTATION
Erwin Sinn KG
Gleisbaumaschinen und -geräte
Jochen Sinn
Sunderweg 6,
58300 Wetter, Deutschland
Tel +49 2335 432 2
Fax +49 2335 285 5
E-Mail: info@sinnkg.de
Internet: www.sinnkg.de

REGIONAL REPRESENTATION
Ing.-Büro P. Will
Peter Will
Waldstr. 2,
35418 Buseck, Deutschland
Tel +49 6408 2008
Fax +49 6408 4909
E-Mail: info@will-hv.de
Internet: www.will-gleistechnik.de

TECHNICAL SALES MANAGER
Gerd Vogt
Am Sportplatz 8, 04567 Kitzscher
Tel +49 151 18 85 61 89
E-Mail: gerd.vogt@robelt.com

TECHNICAL SALES MANAGER
Ulf Konecny
Tel +49 151 18 86 28 23
E-Mail: Ulf.konecny@robelt.com

Estonia

ASI INVENT
Kristjan Kaunissaare
Lahe 6-12
90503 Haapsalu, Estonia
Tel +372-52-388 66
E-Mail: info@asi-invent.ee

Finland

Trackpoint Oy
Risto Houttu
Sarvastonrinne 5a
00840 Helsinki, Finland
Tel +35-8500-415-637
Fax +35-810-290-9090
E-Mail: risto.houttu@trackpoint.fi

France

URMA RAIL
Christian Bischoff
2, rue des Artisans
68780 Senthem, France
Tel +33-389-825-992
Fax +33-389-828-971
E-Mail: contact@urmarail.fr

Greece

DATARAIL
N.Steinbauer & Co.
Nikolaus Steinhauer
Akarnanias Str. 10
115 26 Athens, Greece
Tel +30-210-7290708
Fax +30-210-7242040
E-Mail: info@datarail.gr
Internet: www.datarail.gr

Great Britain

Plasser UK Ltd
Customer Support
Tim Stafford
Manor Road, West Ealing,
W13 0PP London, Great Britain
Tel +44-208-991-3075
Fax +44-208-997-8206
E-Mail: tim.stafford@plasser.uk,
customer.support@plasser.co.uk
Internet: www.plasser.co.uk

Ireland

Plasser UK Ltd
Customer Support
Tim Stafford
Manor Road, West Ealing,
W13 0PP London, Great Britain
Tel +44-208-991-3075
Fax +44-208-997-8206
E-Mail: tim.stafford@plasser.uk,
customer.support@plasser.co.uk
Internet: www.plasser.co.uk

Italy

Plasser Italiana S.r.l.
Anke Perl
Via del Fontanaccio, 1
00049 Velletri, Italy
Tel.: +39-0696101137
Fax: +39-069626155
E-Mail: perl_a@plasser.it
Internet: www.plasser.it

Kosovo

N.T.Sh. AGS
Dr. Gazmend Boshnjaku
Dardania bl. 1, hy 3, nr. 5
10000 Prishtina, Kosovo
Tel: +381 38 223 950
Fax: +381 38 223 950
E-Mail: agskosova@gmail.com

Croatia

ITER d.o.o.
Zeljka Loncarevic
Kneza Ljudevita Posavskog 23
10000 Zagreb, Croatia
Tel +385-1-4618-737, +385-1-4646-454,
+385-98-98-28-528
Fax +385-1-4646-455
E-Mail: iter@globalnet.hr

Latvia

Transfer-Marketinga Centrs
„Cerini“
Rolands Birzgalis
Babite distr.
2101 BABITE, Latvia
E-Mail: rolands.birzgalis@tmcriga.lv

Lithuania

WORK VEHICLES AND MAINTENANCE SYSTEMS
UAB Gelezinkelio Tiesimo Centras
Pavel Naidionov
Trikampio str. 10
25112 LENTVARIS, Lithuania
Tel: +370 5 269 3202
E-Mail: info@gtc.lt

Luxembourg

Rail & Road Service
Olivier Saucez
Gruus Strooss 22
9991 Weiswampach Luxembourg
Tel. +32 474 770 527
E-Mail: saucez@rail-road-service.com

Montenegro

SATI-SAN
Ms. Ivana Racic
Nemanjina 4/II/216
11000 Belgrad, Republic of Serbia
Tel +381-11-3613-861
Mobil +381 64 1597 697
Fax +381-11-3613-861
E-Mail: ivana.racic.bgd@gmail.com

Netherlands

Nedstrail bv
Ing. H. C. Otterman
Stationsstraat 42
6662 BC Elst, Netherlands
Tel +31-481-35 00 55
Mob +31-6-26 78 37 19
E-Mail: hans@nedstrail.nl

Norway

Plasser Scandinavia AS
Gian-Piero Intini
Kristoffer Robins Vei 13
0978 Oslo, Norway
Tel +47-22101550
E-Mail: gian-piero.intini@plasser-scandinavia.com

Austria

ROBEL Bahnbaumaschinen GmbH
Industriestraße 31
83395 Freilassing
Deutschland

ANSPRECHPARTNER FÜR VERTRIEB &
SERVICE IN ÖSTERREICH
Julia Czermak
Tel +49-8654-609-438
E-Mail: Julia.czermak@robelt.com
Fax: +49 8654 609 445
Internet: www.robelt.com

Poland

Deutsche Plasser Bahnbaumaschinen GmbH
Niederlassung Wrocław
Wojtek Musiał
Oddział w Polsce
ul. Grabiszynska 251a
53-234 Wrocław, Poland
Tel +48 71 3386300; +48-667-876178
Fax +48 71 3386310
E-Mail: info@plasser.pl
Internet: www.plasser.pl

Portugal

Kurt Hommé & Companhia Lda.
Mr. José Gervasio P. Leite
Avenida Sacadura Cabral no 49 – R /C Dto
Lisboa
100-273 Lisboa, Portugal
Tel +351 217-977142
Mob +351 961-100157
E-Mail: kurthomme@sapo.pt

Rumania

Exco Transport Systems SRL
Liviu Bart
Bd. Dinicu Golescu 38
sector 1, Bucuresti, RO-010873
CUI: R02626508
Tel: +40-21-3102960
Fax: +40-21-3102961
M: +40-728-297239
Email: liviu.bart@excossys.ro
Email: excossys@excossys.ro
Internet: www.excossys.ro

Russia

000 Holdenberg
Ul. Millionnaya 29-3
191186 St. Petersburg, Russia
Mr. Oleg Bochtarev
Mob: +7 921 325 8035
E-Mail: oleg.bochtarev@holdenberg.com
Internet: www.holdenberg.com

Sweden

Buffers Rail Industry AB
Mikael Gustafsson
Fabriksvägen 9
186 32 Vallentuna, Sweden
Mikael Gustafsson
Tel: +46 8 514 308 86
E-Mail: mikael.gustafsson@buffers.se
Internet: www.buffersrailindustry.com

Switzerland

Sersa Technik AG
Jürg Hürner
Nordstrasse 1
5612 Villmergen, Switzerland
Tel +41-56-618 72 00
Fax +41-56-618 72 99
E-Mail: juerg.huerner@sersa-group.com

Serbia

SATI-SAN
Ms. Ivana Racic
Nemanjina 4/II/216
11000 Belgrad, Republic of Serbia
Tel +381-11-3613-861
Mobil +381 64 1597 697
Fax +381-11-3613-861
E-Mail: ivana.racic.bgd@gmail.com

After sales service point/repair shop
ZGOP a. d. Novi Sad u restrukturiranju -
Privreno drustvo za
Milan Lukic
Vase Stjica 2 / III
21000 Novi Sad, Serbia
+381-21-48-901-20
E-Mail: mlukic@zgop.rs

Slovakia

VHC Trade spol. s r.o.
Zelený pruh 1560/99
140 02 Praha 4, Czech Republic
Tel.: +420/241 443 689; 241 443 698
Fax: +420/241 443826
Mob.: +420/602 622 819
Blanka Matláková
E-Mail: bm@vhctrade.cz
Hana Musilová
E-Mail: hmusilova@vhctrade.cz
Jan Husák
E-Mail: jh@vhctrade.cz
Tel: +420 602 645 031
Internet: www.vhctrade.cz

Slovenia

BIJOL d.o.o.
Janez Bijol
Livarska cesta 17
2367 Vuzenica, Slovenia
Tel.: +386(0)2-87-90-156
Fax: +386(0)2-87-90-158
E-Mail: bijol@bijol.si
Internet: www.bijol.si

Spain

Plasser & Theurer Ibérica S. A. U.
García Orozco Luis Mariano
Avenida de las Lunas n°9
45529 Yuncler, Toledo, Spain
Tel +34-925-534-111,
+34-916-303152
Fax +34-916-304694
E-Mail: ventas@plasser.es

Czech Republic

VHC Trade spol. s r.o.
Zelený pruh 1560/99
140 02 Praha 4, Czech Republic
Tel.: +420/241 443 689; 241 443 698
Fax: +420/241 443826
Mob.: +420/602 622 819
Blanka Matláková
E-Mail: bm@vhctrade.cz
Hana Musilová
E-Mail: hmusilova@vhctrade.cz
Jan Husák
E-Mail: jh@vhctrade.cz
Tel: +420 602 645 031
Internet: www.vhctrade.cz

Turkey

LIMPRO DIS TIC. A.S.
Övünc Sari
Büyükdere Caddesi
Levent Loft 201/141
34394 ISTANBUL - SISLI, Turkey
Tel +90-533-4393400
E-Mail: ovuncsari@limpro.com.tr

Hungary

S-HANSA Bt.
Keller Pál
Ősagárd u. 72
1172 Budapest, Hungary
Tel/Fax + 36 1 257 66 78
Handy + 36 30 / 23 11 280
E-Mail: postmaster@shansa.axelero.hu

Cyprus

DATARAIL
N. Steinhauer & Co.
Nikolaus Steinhauer
Akarnanias Str. 10
115 26 Athens, Greece
Tel +30-210-7290708
Fax +30-210-7242040
E-Mail: info@datarail.gr
Internet: www.datarail.gr

AFRICA

Egypt

EL KARNAK AGENCY CO.
Sherif Azer Farag
Extension of Guesr El Suez St.,
Block No. 82, Industrial Zone
11769 Cairo, Egypt
Tel +202-26993921
Fax +202-26981895
E-Mail: kaco@egts.com

Algeria

Rabah Djadi
Wilaya de Boumerdes
Rue Bouziane Hocine
35010 Commune de Khemis el Khechna
Algérie
Tel: +21-324873453
E-Mail: djadirabah80@gmail.com

Mozambique

Kurt Hommé
José Leite
Rua das Rosas N° 306
MAPUTO / MOZAMBIQUE
Tel +258 825597638
Mob +258 844630215
E-Mail: kurthomme@sapo.pt

ASIA

China

DETIE Railway Technology Co., LTD
Alex Cheng
303-25 Room, 3 Floor, 1 Building,
38# Debao Road
China (Shanghai) Pilot free trade zone
Phone +86(0)512 57607821
E-Mail: detieco@163.com

Hong Kong

Civil Link Ltd.
ROBEL Far East Representation
Mary Cheng
2001 Mega Trade Centre, 1-6 Mei Wan Street,
Tsue Wan NT Hong Kong
Tel +852-24017080
Fax +852-24017081
E-Mail: civilink@netvigator.com

India

Premier India Agencies
30-15-138, 1st Floor, Binayaka Complex,
Dabagardens Main Road,
Visakhapatnam - 530 020 (A.P.)
Sushil Somani
Managing Director
Tel +91 8912540150
ssomani@premierindia.org
Sudhir Kumar Mathur
General Manager Sales & Marketing
Tel +91 1143523195
skm@premierindia.org

Iran

AIRIA CO. LTD
Mr. Ali Khalili
Unit 201, No. 76 Vozara Bld
Vozara Street
151191861 Teheran, Iran
Tel. +98 21 / 8855 4522
Tel. +98 21 / 8855 5196
E-Mail: office@airiagroup.com

Israel

Transport Technologies
PTR Trichter agencies Ltd. & Darital Transport
Technologies Ltd.
93 Ramat Yam Street,
Marine Heights Building
Herzeliya on sea 46851, Israel
Tel +972-542-518514
Fax +972-9-9516077
Yoram Trichter
E-Mail: yoramt@transtec.co.il
Amiassaf Saker
E-Mail: amis@transtec.co.il

Japan

Nippon Plasser K.K.
1-33-1, Komagome, 1-chome Toshima-ku
Tokyo 170-0003, Japan
Heinz Springer
Tel +81-3-5395-6280
E-Mail: springer@nipponplasser.co.jp

Saudi Arabia

Riyadh Company for Railway Supply
Eng. Ragaie Sobhy
Olaya - Riyadh - KS
P.O. Box 14089 - Riyadh 11424, Saudi Arabia
Tel +966 1 217 9633
Fax +966 1 217 9634
E-Mail: ragaie@riyadhestablishment.com

Syria

Joseph Assouad Trading & Representation
Abdallah Assal
Motanabi Street, Shorbaji Building,
No. 55/10, Aleppo, Syria
Tel +963-21-2238367
Fax +963-21-2246317
E-Mail: jassouad@scs-net.org

Thailand

Number One Holding Co Ltd.
24 Soi Sukhothai Rd Suanjitladda Dusit
Bangkok 10300 Thailand
Apinya Chatpimonkul
Tel. +66 2 2418969
Handy: +66 83 2442333
E-mail: apinya@numberoneholding.com

AUSTRALIA & NEW ZEALAND

K.H.1
Daniel Mociak
114 National Blvd
Campbellfield, Victoria 3061
Australia
Tel +61 (3) 9357 5400
Fax +61 (3) 9357 5402
E-Mail: sales@KH1.com.au
Internet: www.KH1.com.au

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ROBEL Bahnbaumaschinen GmbH

Industriestraße 31

D-83395 Freilassing

T +49 (0) 8654/609-0

F +49 (0) 8654/609-100

E info@robel.com

www.robel.com

