

EQUIPMENT AND SERVICES FOR THE CONSTRUCTION AND MAINTENANCE OF RAILWAY INFRASTRUCTURES



> 100 years of experience

Ever since its inception in Colmar in 1924, Geismar has been supplying tools for the construction and maintenance of railway networks.

The company contributed to the mechanisation of railway equipment and **invented the first motorised coachscrewing machine.**This marked the birth of an ever-expanding range of portable machines.

Today, Geismar designs and produces solutions for the **installation**, **maintenance and inspection of railway infrastructures**.

As railway experts, **we operate all over the world** wherever there are
conventional, urban and high-speed transport networks.





Geismar offers a wide range of services such as machine refurbishment, machine rental and ready-to-use spare part kits





Extend the life of your equipment and reduce its carbon footprint



Short and medium-term rental of worksite machines



Maintenance kit for lightweight equipment







Wear kit for lightweight equipment

LIFE Pack

> A complete range of solutions for all railway operations

We provide solutions for all types of track and catenary construction, maintenance, and renewal of railway or urban transport lines. All our services and solutions are designed to support operational excellence for our customers.





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PORTABLE BATTERY PACK SYSTEM



Lithium-ion battery



10 kg (battery only)

Portable battery system for Activion range of equipment, providing better air quality in confined spaces and urban areas with low noise levels, UN 38.3 certified.



Key features		
On-board energy	1,404 Wh	
Voltage	46.8 V	
Battery capacity	30 Ah	
Ambient conditions: • Operating temperature • Storage temperature • Charging temperature	-5 to +40 °C -5 to +40°C (normal storage) 0 to +40 °C	
Recharging time	2 h 30	











BATTERY-POWERED ABRASIVE RAIL SAW



Activion battery*



21 Kg

High-performance rail cutting thanks to a powerful motor with zero emissions. Safe, easy to handle and maintain, it can be turned around quickly while maintaining the same operating procedures as conventional machines.







Key features		
Start	Immediate start with On/Off button	
Maximum power	7 kW (9.5 hp)	
Cutting time	75-90 s	
Sound level	(Laeq) 95 dB(A) (Lwa) 109 dB(A)	
Number of cuts with full battery	6 to 8 cuts according to conditions	
Dimensions (L x W x H)	990 x 333 x 435 mm	





NARVAL

BATTERY-POWERED RAIL DRILL



Lithium-ion battery 216 Wh



14.6 kg (without battery)

Battery-powered rail drill with Click & Go system for quick and tool-free installation of Weldon drills. Two rotational speeds to suit bit and twist drills, 7-40 mm drilling, and drilling gauge for longitudinal positioning.



Key fea	atures
Max. drilling Ø	40 mm
Drilling time	Between 12s and 60s according to diameter
Max. rail hardness	270 HB (standard drills) 325 HB (premium drills)
Autonomy	≈ 28 holes Ø 24 mm with 1 battery
2 speed settings: • Speed for drill bits • Speed for twist drills	400 rpm 690 rpm
Dimensions in working order (L x W x H)	580 x 145 x 420 mm









BATTERY-POWERED RAIL PROFILE GRINDER



Activion battery*



68 Kg (without battery)

Rail grinder offering precise post-weld grinding, easy to use with optimum grinding quality. Multi-network, compatible with a large number of rails, HMI indicating battery charge level and air filter status.

Key features	
Motor	Activion (patented)
Autonomy	20 min (continuous grinding)
Power	6.3 kW
Grinding angle (on each side of the rail)	-15° to +90°
Dimensions (L x W x H)	1,120 x 770 x 900 mm
Options	Balance bar + 1,067 to 1,435 mm track brake









ELECTRIC CONVERSION KIT FOR RAIL PROFILE GRINDERS



Activion battery*



68 kg ⁽¹⁾ (without battery)

Electric retrofit for Metal Hornet rail grinders with Honda GX160/GX200 engines. Installation without programming, HMI indicating charge level and air filter status.





Key features		
Motor	Electric AGX	
Power	6.3 kW	
Autonomy with 1 battery ⁽¹⁾	20 minutes of continuous grinding	
Tilting range on both sides ⁽¹⁾	From -15° to +90°	
Dimensions (L x W x H) ⁽¹⁾	1,120 x 760 x 800 mm	
Compatible machines	MP12 - 200 / NEO (AGX Kit N07883)	











BATTERY-POWERED COACHSCREWING MACHINE



Activion battery*



98 Kg (without trolley and battery)

Battery-powered coachscrewing machine with proven mechanics, precise tightening, and high torque/speed for optimal performance. Easy to use, featuring an HMI indicating battery charge level and air filter status.





Key features	
Motor	Activion (patented)
Power	6.3 kW 5.6 kW at 3,600 rpm
Autonomy with 1 battery	Tightening: up to 540 cyclesUntightening: up to 900 cycles
Maximum torque	• Tightening: 60 daN.m • Untightening: >100 daN.m
Rotation speed	105 and 200 rpm
Dimensions in working order (L x W x H)	2,030 x 500 x 950 mm
Mass of the trolley	≈ 35 kg (without batteries)







BATTERY-POWERED IMPACT WRENCH



2 batteries 5 or 8 Ah

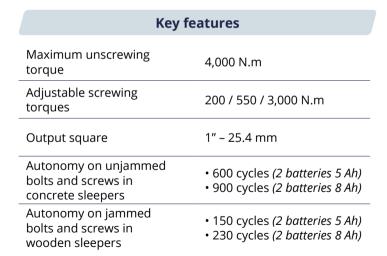


18.3 kg (without battery and socket)

Battery-powered impact wrench with reduced weight and low vibration level (4.2 m/s²) for over 8 hours of work. The most powerful railway impact wrench on the market with three torque settings.















ELECTRIC CONVERSION KIT FOR COACHSCREWING MACHINES



Activion battery*



98 kg ⁽¹⁾ (without trolley and battery)

Electric retrofit for Bolt Hornet coachscrewing machines with Honda GX160/GX200 engines. Installation without programming, HMI indicating battery charge level and air filter status.



Key features		
Motor	Electric AGX	
Power	6.3 kW	
Autonomy with 1 battery ⁽¹⁾	Tightening: up to 540 cyclesUntightening: up to 900 cycles	
Maximum torque (1)	Tightening: 60 daN.m Untightening: >100 daN.m	
Max. rotation speed (1)	200 rpm	
Compatibles machines	• TC (Kit AGX N07882) • TPAS (Kit AGX N07952) • TPH 155 (Kit AGX KFK15500000100) • TS2 / TB2 (Kit AGX N08075)	









BATTERY-POWERED PORTABLE TAMPER



Activion battery*



21.7 kg (without battery)

Optimal track tamping with constant vibrations in the ballast, reduced noise emission, and zero polluting gases. Ergonomic with anti-vibration handles, easy to use/maintain, same operational gestures as ICE counterpart.

Key features		
Start	Immediate start with On/Off button	
Maximum tamping power	3.8 kW	
Vibration frequency	92 Hz	
Noise level	(Laeq) 92 dB(A) (Lwa) 102 dB(A)	
Vibration level	4.6 ms- ²	
Autonomy with fully charged battery	2 h according to conditions	
Dimensions (L x W x H)	525 x 390 x 1,090 mm	









BATTERY-POWERED RAIL LIFTING TROLLEY

Activion battery*



≈ 260 kg (without battery)

Precise rail lifting for the replacement of baseplates, pads and installation of rollers for LWR. Ergonomic lorry with safety braking, easy to use/maintain.



Key features	
Motor	Activion (patented)
Power	6.3 kW
Autonomy with 1 battery	100 cycles (1 cycle = clamping, lifting, lowering, unclamping)
Lifting cylinders stroke	300 mm
Clamping cylinders stroke	100 mm
Lifting force	5,500 daN
Dimensions (L x W x H)	1,400 x 950 x 900 mm







BATTERY-POWERED SINGLE RAIL LIFTING TROLLEY



Activion battery*



≈ 48 kg (without battery)

Precise rail lifting for the replacement of baseplates, pads, and rollers for LWR. Lightweight and ergonomic design, zero emissions. Easy to use, transport and maintain.

Key features		
Hydraulic power unit	0.25 cc / 48 V	
Power	800 W	
Autonomy with 1 battery	1,000 cycles (1 cycle = clamping, lifting, lowering, unclamping)	
Time for 1 cycle	6 s	
Rail lifting height	70 mm	
Lifting force	1,300 daN	
Dimensions (L x W x H)	910 x 600 x 820 mm	









BATTERY-POWERED RAIL KNOCKER

Activion battery*



≈ 260 kg (without battery)

Rail extension using double hammers with synthetic striking heads to preserve the rails surface. Operator safety ensured by the metal cage and braking kit. Same operational gestures as ICE counterpart.



Key features				
Motor	Activion (patented)			
Power	6.3 kW			
Knocking frequency (per rail)	48 knocks/min			
Autonomy with 1 battery	≈1 h			
Number of rollers	4			
Number of double hammers	2			
Dimensions (L x W x H)	2,500 x 1,000 x 1,000 mm			









BATTERY-POWERED SINGLE RAIL KNOCKER



Activion battery*



≈ 41 kg (without battery)

Double hammer with synthetic striking heads for easy rail extension. Lightweight machine for optimal mobility, simplified use, transport and maintenance.

Key features		
Motor	Electric 48 V	
Power	220 W	
Knocking frequency (on a rail line)	53 knocks/min	
Autonomy with 1 battery	≈ 6 h	
Number of double-flange rollers	2	
Number of hammers	2	
Dimensions (L x W x H)	950 x 760 x 850 mm	









BATTERY-POWERED HYDRAULIC UNIT FOR RAIL TENSORS & WELD SHEARS



Activion battery*



60 kg (without battery)

Battery-powered hydraulic unit for rail tensors and aluminothermic weld shears. Powers two tensors simultaneously, with adjustable speed and integrated battery support.



Key features			
Motor	Electric «Brushless»		
Power	1,500 W		
Number of machines that can be connected	2 simultaneously		
Hydraulic pressure depending on option	From 325 to 700 bar		
Dimensions (L x W x H)	835 x 445 x 460 mm		
Options	 Nautilus ESN3 / TH70 VL Nautilus TH70 VL / TH70 VL Nautilus TH70 VLA / TH70 VLA Nautilus TH120 / TH120 Others on request 		







CONVERTER



Activion battery*



13.8 kg (without cable)

With CUBICUS AC, make the most of the long battery life of the high-performance Activion battery on your powerful portable equipment or tools (up to 3,200 W).



Key features			
Input	48 V DC		
Output	220 to 240 V AC single-phase		
Max. output power	3,200 W		
Connectivity: input	Activion		
Connectivity: output	220 V IP54 socketMultiple adapters supplied		
Operating temperatures	-18 to 40°C		
Dimensions (L x W x H)	660 x 336 x 174 mm		









ACTIVION POWER LOGISTICS GROUP

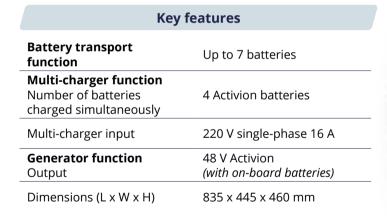
Activion battery*



32 kg (without battery and converter)

Optimization of battery logistics on site, facilitating transport and charging operations. With the CUBICUS AC module, the TORTUGA can power 220 V equipment up to 3,200 W.













HORNETE PORTABLE TECHNOLOGIES					
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LIGHTWEIGHT ABRASIVE RAIL SAW



Stihl TS 800 engine Petrol - 2-stroke



MTZ 350 \approx 16.5 kg MTZ 400 ≈ 17 kg

With reduced cutting time thanks to the high power and reliability of the Stihl engine, the Cut Hornet MTZ rail saw enables high work rates on railway work sites.

Key features			
Power	5 kW or 6.8 hp (9,000 rpm)		
Disc diameter	350 or 400 mm		
Spindle diameter	22.2 or 25.4 mm		
Average cutting time	< 90 s (UIC60)		
Guiding arm mass	7 kg		
Cutting squareness precision	Error < 1 % (horizontal and vertical)		
Dimensions with disc (L x W x H)	MTZ 350: 860 x 315 x 430 mm MTZ 400: 890 x 315 x 455 mm		











FUEL INJECTION RAIL SAW



Stihl TS 910i engine Petrol - 2-stroke



Ø 350 mm ≈ 18 kg

Ø 400 mm ≈ 19 kg

Ultra-fast rail saw with precise guide support. Flip & Go technology for effortless and secure cutting. Cold start and automatically adjusted injection system.



Flip & Go: flip the MTZ GTi safely without stopping the engine



Key features		
Power	6.2 kW or 8.4 hp	
Power supply	Electronic fuel injection	
Disc diameter	350 or 400 mm	
Disc support shaft	22.2 or 25.4 mm	
Average cutting time	< 60 s (UIC60)	
Guide support weight	≈ 6 kg	
Cutting squareness precision	Error < 1 % (horizontal and vertical)	
Dimensions with disc (L x W x H)	Ø 350 mm: 770 x 290 x 450 mm Ø 400 mm: 820 x 290 x 460 mm	





LIGHTWEIGHT HYDRAULIC RAIL **PROFILE GRINDER**



Hydraulic



33 kg

Ergonomic, lightweight, and precise hydraulic rail profile grinder. Powered by an independent hydraulic unit or a vehicle, it offers excellent visibility for rail weld grinding.

Key features		
Tilt range	Up to 90° relative to the vertical	
Power source	• Flow Rate: 40 L/min • Pressure: 140 bar	
Total grinding stroke	62 mm	
Dimensions (L x W x H)	855 x 540 x 750 mm (depends on the position of the supports on the rail)	









RAIL PROFILE GRINDER



Honda GX200 Petrol - 4-stroke



60 kg

Precise rail grinding after welding. The machine is adaptable to most types of rails thanks to its pivoting selector. Extension roller allows grinding of switch frogs. Integrated LED lighting for increased comfort and precision.

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Cyclonic filtration ensures a constant grinding power

Key features		
Engine power	4.6 kW (6.2 hp) 4,000 rpm	
Tilt range	Up to 90° relative to the vertical	
Total grinding stroke	65 mm	
Dimensions (L x W x H)	1,060 x 525 x 795 mm	
Switch frog grinding	With extension roller (accessory)	











RAIL PROFILE GRINDER



Honda GX200 Petrol - 4-stroke



60 kg

Precise rail grinding thanks to the wheel acting on the depth of cut, its turning device, and its tilting operating arm. Optimized working time thanks to the new quick-change grinding wheel system.

Key features		
Engine power	Net power: 4.5 kW (6.1 hp)Gross power: 5 kW (6.7 hp)3,600 rpm	
Tilt range	From -15° to +90°	
Vibration level	3.7 m.s-2	
Dimensions (L x Wx H)	1,120 x 720 x 900 mm	



Available in Activion battery-powered version (p.21), electric three-phase 400 V, or hydraulic. Retrofit an existing machine (p.22)











RAIL PROFILE GRINDER

رت

Honda GX270 Petrol - 4-stroke



69 kg

World-renowned rail profile grinder ensuring excellent grinding precision thanks to the depth control wheel. Precise and stable profile grinding thanks to the tilting operating arm and the turning device.

Key features		
Engine power	6.3 kW (8.4 hp) 3,000 rpm	
Tilt range	From -15° to +90°	
Vibration level	4.5 m.s ⁻²	
Dimensions (L x W x H)	1,120 x 720 x 900 mm	











ELECTRIC RAIL PROFILE GRINDER



Electric



76 kg

Electric version of the MP12 rail grinder series allowing precise rail grinding thanks to the wheel acting on the depth of cut, its turning device, and its tilting operating arm. Optimized working time thanks to the new quick-change grinding wheel system.

Key features		
Motor	Leroy-Somer LS100 400 V three-phase 50 Hz	
Power	3 kW	
Motor speed	2,850 rpm	
Tilt range	From -15° to +90°	
Vibration level	2.3 m.s ⁻²	
Dimensions (L x W x H)	1,120 x 590 x 900 mm	

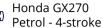














≈ 102 kg



Rail grinding without turning. Precise control of cutting depth thanks to the electric grinding wheel lowering system. Reduced operation time. Advanced ergonomics for comfort and safety. Flatness of the ground area ensured by six rollers.



RAIL PROFILE GRINDER

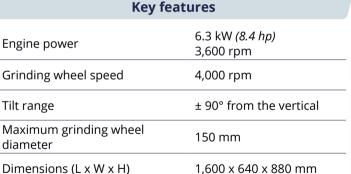
Available in 440 V threephase electric version





Engine power 3,600 rpm Grinding wheel speed 4,000 rpm Tilt range

diameter













RAIL CORRUGATION **GRINDING MACHINE**



Petrol - 4-stroke



≈ 85 kg

Efficient grinding of corrugations thanks to the positioning of two sets of rollers, allowing perfect horizontal alignment. Improved comfort through vibration damping and high-strength alloy components for long-lasting durability.

Key features		
Track gauge	1,435 mm (others on request)	
Engine power	7.6 kW <i>(10.2 hp)</i> 3,600 rpm	
Total grinding stroke	62 mm	
Dimensions (L x W x H)	2,070 x 600 x 800 mm	





FROG POINT AND CHECK RAIL GRINDING MACHINE



Honda GX200 / 270 Petrol - 4-stroke



GX200 ≈ 100 kg GX270 ≈ 112 kg

Grinding of all types of Vignole or grooved rails. Excellent visibility of the grinding area without changing the height of the grinding wheel. 30° tilt allowing significant grinding and high efficiency.

Key features		
Engine power	 Honda GX200: 4.3 kW (5.8 hp) 3,600 rpm Honda GX270: 6.3 kW (8.4 hp) 3,600 rpm 	
Track gauge	1,435 mm (others on request)	
Grinding wheel shaft	 Single keyway: 254 x 32 x 25.4 mm Double keyway: 254 x 40 x 76.2 mm 	
Dimensions (L x W x H)	2,160 x 1,120 x 1,080 mm	











RAIL WEB GRINDING MACHINE



Honda GX270 Petrol - 4-stroke



108 kg

Grinder specifically designed to remove rust and scale from the rail web in the joint chambers of rails. The two movable protective shells allow grinding on either side of the rail of a turnout.

Key features		
Engine power	6.6 kW <i>(9 hp)</i> 3,600 rpm	
Track gauge	1,435 mm (others on request)	
Inclination	Up to 11° from the vertical	
Grinding wheel speed	6,000 rpm	
Dimensions (L x W x H)	2,490 x 650 x 915 mm	







VERTICAL RAIL & SWITCH GRINDING MACHINE



Honda GX200 Petrol - 4-stroke



≈ 132 kg

Precise rail profile grinding with three-axis head adjustment. Versatile for grinding on open tracks and turnouts with multi-network compatibility. Ergonomic standing work position. Simplified commissioning with a four-stroke engine.

Key features		
Engine power	 Net power: 4.6 kW (6.2 hp) Gross power: 5 kW (6.7 hp) 4,000 rpm 	
Tilt range	80° internal / 20° external	
Vertical adjustment	200 mm	
Transverse adjustment	385 mm	
Dimensions (L x W x H)	2,120 x 1,100 x 1,020 mm	











RAIL DRILL FOR CARBIDE INSERTS **DRILL BITS**



Stihl FS410C Petrol



20.5 kg

Carbide insert drills for better return on investment. Extended rail life thanks to high-quality drilling. Lightweight and easy-to-transport machine with quick-clamping vise. Stihl engine warranty.

Key features		
Engine power	2 kW (2.7 hp)	
Drilling stroke	85 mm	
Drilling diameter	From 5 to 40 mm	
Spindle speed	1,570 rpm	
Spindle type	Weldon	
Max. rail hardness	325 HB	
Dimensions (L x W x H)	490 x 300 x 490 mm	











HOLLOW DRILL BITS RAIL DRILL



Honda GX50 Petrol - 4-stroke



20 kg (without clamping shapes)

Lightweight and easy-to-transport machine with quick-clamping vise. The use of hollow drills allows for high drilling speed. Simplified commissioning with a four-stroke engine, no mixing required. Honda engine warranty.

Key features		
Engine power	1.47 kW <i>(2 hp)</i>	
Drilling stroke	85 mm	
Max. drilling diameter	40 mm	
Spindle speed	435 rpm	
Spindle type	Weldon 19.05 mm	
Max. rail hardness	• 280 HB with standard drills • 310 HB with premium drills	
Dimensions (L x W x H)	490 x 280 x 490 mm	











RAIL DRILLING MACHINE



Honda GX200 Petrol - 4-stroke



) ≈ 56 kg

Rail drill with manual feed system by handwheel, specially designed for drilling all types of Vignole or grooved rails, on track or in the workshop, including hard rails. Drilling possible at different heights in turnouts and rail ends.

Key features		
Engine power	4.3 kW <i>(5.8 hp)</i> 3,600 rpm	
Feeding system	Manual	
Max. drilling diameter	40 mm	
Drilling stroke	172 mm	
Spindle speed	150 rpm	
Dimensions (L x W x H)	980 x 380 x 580 mm	







RAIL DRILLING MACHINE





≈ 57 kg

Optimized and effortless drilling thanks to the threespeed automatic drill feed system. Cost-efficient due to the use of easily resharpenable twist drills.

Key features		
Feeding system	Automatic with 3 speeds	
Max. drilling diameter	40 mm	
Drilling stroke	174 mm	
Spindle speed	2 drilling speeds	
Dimensions (L x W x H)	980 x 420 x 580 mm	





L2R 522

RAIL LIFTING TROLLEY



Petrol - 4-stroke or Diesel



180 kg

Trolley allowing precise rail lifting to replace chairs or baseplates and to set up rollers for destressing work.

Key features		
Engine power	3.3 kW <i>(4.5 hp)</i>	
Track gauge	1,435 mm (others on request)	
Lifting stroke	300 mm	
Clamp stroke	100 mm	
Number of rollers	4	
Lifting force	5,500 daN	
Rail type	Vignole	
Dimensions (L x W x H)	1,800 x 1,000 x 900 mm	



Switch to electric with an equivalent battery-powered **Activion model** (p.27)





WTC

SHORT RAIL TRANSPORT WAGONS



L Towed



Rail section transport wagons allow for quick loading or unloading of rails from both sides of the track or from one side without ever exceeding the working gauge.

Key features		
Container wagon	Special narrow and extended wagon	
Max. traveling speed	100 km/h	
Loading capacity	Up to 24 rails (12 rails at left hand side, 12 rails at right hand side)	
Rail length	12 to 18 m on 1 wagon 36 m on 2 wagons	
Number of cranes per wagon	1 to 4 according to the model	
Average time for loading or unloading a rail	< 2 min	







CWR TRANSPORT TRAIN



Towed



The CWR (Continuous Welded Rails) transport train can be supplied with wagons or broken down into equipment modules only (free racks, fixed point racks, safety doors, etc.) mounted on subframes.

Key features		
Traveling speed	80 km/h	
Loading capacity	Up to 30 rails (3 tiers of 10 rails)	
Length of CWR (continuous welded rails)	108 to 500 m	
CWR loading method	Top loading (in factory by gantries or guiding station)	
CWR clamping	Manual	







RAIL HEATING MACHINE

Ease of use thanks to the adjustable preheating ramp height in pressure and flow. The SH4 and SH8 trolleys are lightweight and fully dismountable for transport. The SH12 is mounted on a self-propelled and selfbraking aluminum trolley, allowing for dual-line heating.

Key features			
	SH4	SH8	SH12
Number of rail line(s)	1	2	2
Number of burners	4	8	12
Type of gas cylinder	Type of gas cylinder Propane / Butane - 35 kg		
Number of gaz cylinders	1	2	6
Power	255 kW	510 kW	765 kW
Consumption	20 kg/h	40 kg/h	60 kg/h



SH4/8: hand pushed SH12: Honda GX160



SH4: 72 kg SH8: 180 kg

SH12: 500 kg



The trolley presented here is the single-line version with 4 burners (SH4)







RAIL DESCALING & SCRUBBING MACHINE



DER 672: Honda GX120 DER 674: Honda GX160V



DER 672: 29 kg DER 674: 32 kg

Descaling and deoxidation in one or two passes of the running tables of rails, even in the rain. Complete surface treatment of the rail using the abrasive flap wheel or brush.

Key features		
	DER 672	DER 674
Brush type	Abrasive lamel- lae wheel: Ø 165 mm Width: 50 mm	Steel wire brush Ø 120 mm
Engine type	Petrol – 4-stroke	
Engine power	2.6 kW <i>(3.5 hp)</i> 3,600 rpm	3.5 kW <i>(4.8 hp)</i> 3,600 rpm
Dimensions (L x W x H)	1,000 x 415 x 800 mm	1,000 x 450 x 800 mm







HIGH OUTPUT RAIL DESCALING MACHINE



Honda GX200 Petrol - 4-stroke



36.7 kg

Optimal descaling of Vignole or grooved rails thanks to the constant pressure of abrasive wheels. Reduced maintenance costs with a simplified machine and a reliable, guaranteed Honda GX200 engine.

Key features		
Engine power	4.3 kW <i>(5.8 hp)</i> 3,600 rpm	
Wheel rotation speed	2,800 rpm	
Dimensions (L x W x H)	1,030 x 495 x 805 mm	
Options	 Machine with lighting and hour meter Machine adapted for 41GPU grooved rail with 3 abrasive wheels (for other profiles, order accessories) 	











HYDRAULIC RAIL TENSOR



ዝ Hydraulic unit



TH70 VL: 295 kg TH70 VLA: 245 kg TH120 SVL: 480 kg

The TH70 and TH120 rail tensors effectively lengthen rails for welding. Easy to install by two operators without interrupting traffic. Reliable and dismountable, they eliminate internal stresses for safe rail cutting.



Use the Nautilus battery-powered Activion unit to power one or two rail tensors (p.31)

Key features TH70 VL & VLA TH120 SVL Maximum pulling force 700 kN 1,090 kN Maximum thrust force 300 kN, 700 kN 1,090 kN Standard length 1.520 mm 1,530 mm Cylinder stroke 380 mm 380 mm 3.250 x 980 x 3.000 x 750 x Dimensions (L x W x H) 350 mm 570 mm





TENS HORNET TH70 / 120 STP

HYDRAULIC OBSTRUCTIONLESS RAIL TENSOR

Petrol

TH70 STP: 635 kg (with power unit) TH120 STP: 555 kg (without power unit)

The TH70 STP and TH120 STP rail tensors allow for effective rail elongation for welding. Quick installation using a road-rail excavator without the need to disassemble the system.

Key	features

	TH70 STP	TH120 STP
Maximum pulling force	700 kN	1,090 kN
Maximum thrust force	300 kN	1,090 kN
Standard length	No tie-rod	No tie-rod
Cylinder stroke	460 mm	460 mm
Dimensions (L x W x H)	2,840 x 780 x 1,770 mm	2,620 x 860 x 680 mm







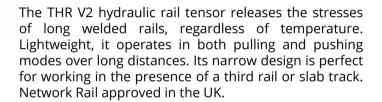
LIGHTWEIGHT HYDRAULIC RAIL TENSOR



Petrol engine, electric motor or manual pump



284 kg (without power unit)



Key features		
Maximum pulling force	700 kN	
Maximum thrust force	350 kN	
Connecting bars	2 or 3 m	
Cylinder stroke	64 mm	
Dimensions (L x W x H)	≈ 3,000 x 762 x 560 mm	







RAIL PULLER

RAIL PULLER

The ATR rail puller, with a nominal force of 6 to 20 t (depending on the model), is designed to connect two rails. It brings together two aligned rails whose ends are no more than 1.5 m apart.

Key features	

	ATR 6	ATR 20
Rail type	UIC 60, UIC	54 or S49
Pulling force	60 kN	200 kN
Operating pressure	160 Bar	450 Bar
Cylinder stroke	300 mm	250 mm



3 Manual pump



ATR 6: 75 kg ATR 20: 153 kg (without rod)



The model presented here is the ATR 20 version with remote manual pump







RAIL KNOCKER



Honda GX160 Petrol – 4-stroke



230 kg

A mobile machine on rollers usable by a single operator and specifically designed for rail destressing operations.

Key features	
Track gauge	1,435 mm (others on request)
Number of rollers	4
Power	5.5 hp 3,600 rpm
Knocking frequency (per minute per rail)	48 knocks
Number of double hammers	2
Dimensions (L x W x H)	2,500 x 1,000 x 1,000 mm

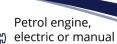


Switch to electric with an equivalent **battery-powered Activion** model (p.29)









pump



≈ 47 kg (head only, without knives)



MODULAR WELD SHEAR

Precise rail weld deburring thanks to a powerful and compact machine. Knives and guide adjustment for deburring close to the rail. Modular and lightweight, it can be powered hydraulically or manually.

Key features		
Cutting force	220 kN	
Maximum working pressure	325 bar	
Cylinder stroke	155 mm (standard version)	
Rail type	Vignole, grooved and crane rail	
Dimensions handles folded (L x W x H)	≈ 676 x 526 x 323 mm	



Use the battery-powered Nautilus Activion unit to power a rail tensor and a deburring machine (p.31)







LIGHTWEIGHT WELD SHEAR



Hydraulic unit Honda GC160 Petrol - 4-stroke



≈ 38 kg (head only, without knives)

The ESN4 MS deburring machine, powerful and lightweight, is perfect for aluminothermic welds shearing on rails. After deburring, only finishing grinding is required. Versatile, it is suitable for both mainline tracks and turnouts.

Key features		
Cutting force	216 kN	
Hydraulic operating pressure	550 bar	
Cylinders stroke	150 mm	
Rail type	Vignole	
Dimensions handles folded (L x W x H)	≈ 720 x 380 x 280 mm	



Use the Nautilus battery-powered Activion unit to power a rail tensor and a deburring machine (p.31)







SWITCH BLADE HYDRAULIC BENDER



Manual pump



49 kg

Quick and easy intervention thanks to its light weight and ease of use. Bidirectional bending to adjust the radius of curvature. Bending of rail switch blades up to 180 mm in height.

Key features	
Bending force	30 t
Bending moment	150 to 440 kN.m
Dimensions (L x W x H)	770 x 170 x 300 mm
Manual pump	 Dimensions (L x W x H): 1,055 x 380 x 210 mm Mass: 22 kg
Options	Storage box





VERTICAL & HORIZONTAL LIGHTWEIGHT HYDRAULIC RAIL AND SWITCHBLADE BENDER



Manual pump or hydraulic unit



ጎ 100 kg

Efficient and easy bending thanks to removable hooks. Horizontal bending in both directions, even with a third rail. Vertical straightening of weakened rails. Ideal for turnouts and switch blades.

Key features	
Bending force	750 kN <i>(≈75 t)</i>
Bending moment	125 kN.m
Dimensions (L x W x H)	880 x 667 x 252 mm
Options	 Hydraulic power unit with Honda petrol engine Jaw sets (depending on rail) Reverse bending kit Concrete slab set







HYDRAULIC VERTICAL RAIL JOINT STRAIGHTENER



Integrated manual pump



230 kg

The hydraulic rail joint straightener is specially designed for lifting sagging welded or bolted joints without disassembling the fishplates. Versatile, it is suitable for all types of Vignole rails (and grooved rails with optional kit) up to 60 kg/m.

Key features	
Linear mass of the rails	60 kg/m
Bending moment	300 kN.m
Bending force	1,000 kN
Working pressure	625 bar
Cylinder stroke	120 mm
Dimensions (L x W x H)	1,450 x 1,880 x 1,000 mm







RAIL AND SWITCHBLADE BENDING MACHINE



Manual pump or electric unit



375 kg

Horizontal bending machine for rails and switch blades, made of high-strength steel. Powerful, durable, and compact, with manual or electric pump. Can be used by a single operator.

Key features	
Bending force	900 kN
Bending moment	133 kN.m
Rail type	60 kg/m (depending on rail hardness)
Operating pressure	610 bar
Cylinder stroke	90 mm
Dimensions (L x W x H)	930 x 906 x 1,137 mm









HORIZONTAL BENDING MACHINE



Integrated hydraulic pump



165 kg

With its welded frame, thrust dies and counter die for rails weighing up to 70 kg/m, the Bend Hornet JB60 can bend rails to a radius of up to 6 m using its 2 cylinders with a stroke of 110 m.

Key features	
Bending force	600 kN
Bending moment	150 kN.m
Rail type	70 kg/m (depending on rail hardness)
Operating pressure	470 bar
Cylinder stroke	110 mm
Dimensions (L x W x H)	1,180 x 640 x 450 mm
Options	Different jaw sets depending on the rail type









HYDRAULIC JACK FOR LIFTING & SLEWING RAIL



្ហា Manual pump



25 kg (without accessories)

Robust and multifunctional jack, designed for railway track lifting and slewing with a high lifting height for easy work in all circumstances.

Key features	
Lifting force	5 and 7 kN
Lifting height	148 mm
Slewing stroke	50 mm







LIGHTWEIGHT TAMPING JACK





21 kg (without lever)

The AL74 tamping jack is perfectly suited for track work involving lifting and slewing the track. Its lightweight aluminum base plate ensures easy maneuverability.

Key features	
Lifting force	50 kN
Lifting stroke	200 mm
Lifting stroke per tooth	3.5 mm
Dimensions (L x W x H)	• No pad: 620 x 175 x 260 mm • With pad: 700 x 175 x 260 mm





SCREW LIFTING JACK



Manual



16.5 kg

Robust and easy to use, the jack features a screw-operated system that ensures high precision in lifting the railway track. Its simple design offers reduced operating costs.

Key features	
Lifting force	7.5 kN
Lifting height	150 mm
Dimensions (L x W x H)	430 x 200 x 235 mm







UNIVERSAL RAIL LIFTING LEVER



Manual



≈ 9 kg

Rail lifting lever allowing for easy replacement of baseplates and ribbed baseplates under the rail. The locking mechanism prevents any accidental movement during the operation. Suitable for the vast majority of rail types, fastenings, and sleepers.

Key features		
Maximum lifting use	750 kg	
Rail lifting height	25 mm	
Dimensions (L x W x H)	≈ 1,210 x 80 x 420 mm	







RAIL LIFTING JACK WITH RISING FRAME



Manual



27.5 kg (with handles)

Robust and easy to use jack, ensuring precise and stable operation. Its foldable crank and double gear system ensure safety and load retention.

Key features		
Lifting force	5,000 daN <i>(5 t)</i>	
Lifting stroke	320 mm	
Stroke per crank turn	3 mm/tr	
Minimum height between bearing foot and the base	70 mm	
Dimensions with unfolded handle (L x W x H)	450 x 220 x 650 mm	
Dimensions with folded handle (L x W x H)	320 x 220 x 650 mm	











FASTENINGS

> BOLTING		76
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- > CLIPPING 81
- > SPIKING 84







PORTABLE IMPACT WRENCH



Stihl MS311 Petrol - 2-stroke



≈ 19 kg

Lightweight and offering very low vibration levels for the operator, the portable impact wrench will give you full satisfaction by coachscrewing, tightening or loosening the tightest bolts or fastenings.



Switch to electric with Mantis, the portable impact wrench with Activion battery (p.24)

Key features	
Engine power	3.1 kW
Maximum unscrewing torque	2,600 N.m
Maximum screwing torque	1,500 N.m
Socket maximum rotation speed	1,400 rpm
Torque limiter	Optional
Trolley	3-roller version (accessory)
Dimensions (L x W x H)	650 x 450 x 275 mm







PRECISION COACHSCREWING MACHINE



Honda GX200 Petrol - 4-stroke



90 kg

Perfectly balanced coachscrewing machine with optimized and precise tightening thanks to two rotation speeds of the wrench, operator's choice.

Key features		
Engine power	4.3 kW (5.8 hp) 3,600 rpm	
Socket square drive	23 mm	
Spindle rotation	Low speed: 105 rpm High speed: 200 rpm	
Maximum torque	• 600 N.m (screwing) • >1,000 N.m (unscrewing)	
Dimensions (L x W x H)	2,030 x 500 x 950 mm	



Switch to electric with an equivalent model using the **Activion battery** (p.23) or **retrofit a machine** you already own (p.25)













HEAVY DUTY COACHSCREWING MACHINE



Honda GX 270 Petrol - 4-stroke



≈ 120 kg

A perfect coachscrewing machine for intensive operations which require high output performance. Unbolting is easy as the machine offers a high untightening torque while tightening is managed through a two-speed gear box, allowing you to achieve optimum efficiency.

Key features	
Engine power	6.6 kW <i>(3,600 rpm)</i>
Socket rotation speed	Low speed: 70 rpmHigh speed: 195 rpm
Maximum torque	600 N.m (screwing)1,200 N.m (unscrewing)
Dimensions (L x W x H)	2,035 x 585 x 900 mm











PRECISION COACHSCREWING MACHINE



Honda GX200 Petrol - 4-stroke



≈ 99 kg

Extremely accurate torque control due to its hydraulic servo valves. Designed for all kinds of screws including those used with elastic fasteners.

Key features		
Engine power	4.9 kW (3,600 rpm)	
Socket rotation speed	Low speed: 60 rpmHigh speed: 160 rpm	
Maximum torque	• 600 N.m (screwing) • >1,000 N.m (unscrewing)	
Traversing trolley	Yes	
Dimensions (L x W x H)	1,920 x 530 x 925 mm	



Switch to electric with an equivalent model using the Activion battery (p.23) or retrofit a machine you already own (p.25)













DIGITAL COACHSCREWING MACHINE



Honda GX200 Petrol - 4-stroke



106 kg (without trolley)

High precision and repeatability using electronic control and a hydrostatic transmission. Auditable traceability with all tightening data and GPS locations stored electronically.

TENTED Q GEISTINGS	
HN	

Key features	
Engine power	4.3 kW <i>(5.8 hp)</i>
Screwing torque	110 to 500 N.m
Maximum unscrewing torque	1,100 N.m
Performance	≈ 500 screwing/h
Noise level	• (Laeq) 84 dB(A) • (Lwa) 100 dB(A)
Dimensions in working order (L x W x H)	2,075 x 540 x 906 mm
Storage dimensions (L x W x H)	1,360 x 540 x 780 mm











PORTABLE CLIPPER FOR FASTCLIP





10.7 kg (with lever)

Lightweight, robust tool for quick and easy insertion and extraction of Fastclips during occasional track maintenance operations.

Key features		
Tool stroke	76 mm	
Stroke per pump action	10 mm	
Fastclip type	CF as standard Others with accessories	
Work capacity	Total insertion or extraction or in premounted position	
Normal working pressure	400 bar	
Insertion and extraction force	2,500 N	
Max. oil capacity	0.5 L	
Dimensions (L x W x H)	200 x 190 x 525 mm	







COMPACT CLIP MACHINE FOR FASTCLIP



Honda GX200 Petrol - 4-stroke



≈ 135 kg

Robust and ergonomically designed machine, perfect for stress-free insertion and extraction of Fastclips. The sleeper lifting device ensures optimal, safe and efficient operation.

Key features		
Engine power	4.3 kW <i>(5.8 hp)</i> 3,600 rpm	
Fastclip type	FC, FCx	
Normal working pressure	210 bar	
Force	22 000 N insertion 30 000 N extraction	
Efficiency	≈ 1,200 Fastclips / h insertion ≈ 1,100 Fastclips / h extraction	
Dimensions (L x W x H)	• 1,020 x 570 x 1,170 mm (folded arms) • 1,880 x 570 x 870 mm (unfolded arms)	







HEAVY DUTY MULTIPURPOSE CLIPPER



Honda GX270 Petrol - 4-stroke



99 kg (headless machine) 34.5 kg (trolley)

You will be able to insert & extract a wide variety of clips (e-clip, PR, Fastclip, safelock, surelock...) using its various clipping heads. Increased efficiency by the insertion and extraction of two clips at a time.

Key features	
Engine power	6.3 kW (8.4 hp)
Hydraulic working pressure	250 bar
Hydraulic flow	14 L/min
Insertion output	Up to 1,600 clips / h
Extraction output	Up to 950 clips / h
Insertion and extraction force	12.6 / 25.6 kN
Dimensions (L x W x H)	2,250 x 600 x 1 100 mm







HYDRAULIC SPIKE PULLER



Honda GX70 Petrol



≈ 130 kg depends on engines type and extraction tools

Versatile machine designed to remove cut or hairpin spikes with minimal effort for the operator. The stability of the extraction tools provides full safety to the operator.

Key features		
Extraction force	4,300 daN	
Track gauge	1,435 mm (others on request)	
Dimensions (L x W x H)	2,050 x 600 x 1,040 mm (may change according to type of engines and tools)	
Accessories	Extraction tools for dogspikes Extraction tools for lockspikes	













SLEEPER DRILLING MACHINE



Stihl BT131
Petrol - 2-stroke



14.9 kg

Easy and quick execution of all sleeper drilling operations. Drilling precision ensured by the drill guide integrated into the sheath. Automatic braking of the bit and motor in case of drill jam in the sleeper.

Key features		
Power	1.4 kW <i>(1.9 hp)</i> 8,500 rpm	
Drilling stroke	200 mm	
Tool rotation speed	588 rpm	
Max. auger diameter	25 mm	
Auger holding chuck diameter	16 mm	
Trolley	3-roller version (accessory)	
Dimensions (L x W x H)	530 x 390 x 900 mm	













SLEEPER DRILLING MACHINE



Honda GX270 Petrol – 4-stroke

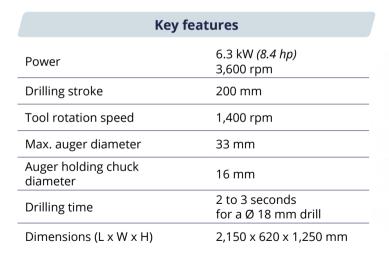


Machine ≈ 96 kg Trolley ≈ 35 kg

Powerful, robust, and safe sleeper drill allowing intensive drilling of wooden sleepers, even the toughest ones. Suitable for all types of drilling, whether vertical or inclined.

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Available with electric motor or Diesel engine









SUPER LIGHTWEIGHT SLEEPER DRILLING MACHINE



Honda GX200 Petrol – 4-stroke



40 kg (machine only)

Sleeper drill allowing drilling operations on all types of wood. Lightweight and easy to handle, it is suitable for on-site maintenance operations. Numerous safety features ensure safe use for the operator.

Key features			
Power	4.3 kW <i>(5.8 hp)</i> 3,600 rpm		
Drilling stroke	200 mm		
Tool rotation speed	970 rpm (others on request)		
Max. auger diameter	33 mm		
Drilling time	3 to 5 seconds for a Ø 18 mm drill		
Dimensions (L x W x H)	1,110 x 450 x 1,060 mm		









MODULAR SLEEPER REPLACER



Hydraulic with road-rail loader



1,175 kg

Loader fitting for the renewal of sleepers on railway tracks using a rotating clamp, as well as the clearing and renewal of ballast with the blade, without changing the fitting.



Discover our full range of accessories for road-rail loaders (p.150)

Key features		
Track gauge	1,435 mm (others on request)	
Output	25 sleepers per hour	
Clearing depth	600 mm	
Clearing width	2,700 mm	
Clamping force	5 t at 180 bar	
Sleepers type	Wood and monobloc	
Dimensions (L x W x H)	2,700 x 1,475 x 1,523 mm	









> TAMPING		92
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LIGHTWEIGHT PORTABLE TAMPER

Honda GX50 Petrol - 4-stroke



19.9 kg

Portable vibrator offering effective and localized ballast tamping. The ergonomic handles absorb vibrations transmitted to the operator. Thanks to the patented Geismar deflector, hot air expelled from the engine is directed away from the operator.

Key features		
Engine power	1.47 kW <i>(2 hp)</i>	
Vibration frequency inside the ballast	125 Hz	
Hand/arm vibration level	4.9 m/s ²	
Dimension (L x W x H)	525 x 390 x 1,151 mm	



Switch to electric with an equivalent **battery-powered Activion** model (p.26)













BALLAST TAMPING SET

High performance and high-quality tamping thanks to 4 vibrators equipped with reinforced alloy tips. Effective tamping of tracks and turnouts regardless of the type of sleeper (concrete, wood, or steel).

Key features		
Power generator	Honda GX270, 4-stroke 4 kW at 3,600 rpm	
Number of tampers per set	4	
Three-phase electric motor	400 V, 50 Hz	
Consumption	450 W	
Vibration frequency	50 Hz (3,000 rpm)	
Vibrator dimensions (L x W x H)	810 x 555 x 590 mm	



Power generator



34 kg per unit







MB2 TL

DOUBLE HEADED BALLAST TAMPING MODULE



Hydraulic with road-rail excavator



1,400 kg

Tamping module controlled from the joysticks and pedals of the road-rail excavator. The tamping heads can be raised to facilitate work in track turnouts or on a single rail line. The diving depth is adjustable and limited by elastic stops.



Discover our full range of accessories for road-rail excavators (p.150)

Key features		
Track gauge	From 1,000 to 1,676 mm	
Output	100 sleepers/h	
Vertical stroke of maximum penetration	500 mm	
Vibration frequency	≈ 46 Hz	
Hydraulics	150 bar at 105 L/min	
Dimensions (L x W x H)	2,110 x 1,375 x 1,580 mm	





MB8 AC

TRACK AND TURNOUTS TAMPING UNIT



Hydraulic with road-rail excavator



2,785 kg

Module for road-rail excavators offering the possibility to tamp tracks in various configurations: on plain tracks, curves, cants, or track turnouts. High-quality tamping thanks to its 8 tamping tines with 46 Hz elliptical vibrations.

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Discover our full range of accessories for road-rail excavators (p.150)

Key features		
Track gauge	1,000 to 1,676 mm	
Output	240 sleepers/h	
Vertical stroke of maximum penetration	500 mm	
Vibration frequency	≈ 46 Hz	
Distance between tamping head and track centre	155 to 1,250 mm	
Dimensions (transport) (L x W x H)	1,955 x 2,500 x 1,805 mm	







TRACK BRUSH TOOL FOR ROAD-RAIL EXCAVATOR



Hydraulic with road-rail excavator or GEM55 unit



2,400 kg

Efficient brushing of the entire track in a single pass. Operation facilitated by the ability to choose the most suitable side for ballast evacuation. Specially designed to facilitate maintenance operations, both in the workshop and on site.



Discover our full range of accessories for road-rail excavators (p.150)

Key features		
Track gauge	1,435 mm (others on request)	
Working speed	0,5 to 1 km/h	
Pass height	6 cm of ballast at 1 km/h	
Ballast evacuation	Right or left	
Brush width	2,530 mm	
Brush rotation speed	260 rpm	
Dimensions (L x W x H)	2,500 x 3,210 x 1,283 mm	









BALLAST EQUALIZING WAGON



Towed + power group, 18 kW



68,300 kg

The BPW allows for ballast equalizing in a single pass and ensures no ballast remains on the rails afterwards. It offers the possibility to work in both directions of travel thanks to its two equalizing blades.

Key features	
Track gauge	1,600 mm (others on request)
Number of equalizing blades	2 blades between the bogies
Equalizing type	Bi-directional
Modules mounted on twist-locks	Tank and workshop
Tank capacity	20,000 l
Speed	Working speed: 4 km/hTravel speed: 100 km/h
Dimensions (L x W x H)	16,950 x 2,980 x 3,800 mm











Learn more about the BPW ballast equalizing wagon with this video





OPTIMA

SELF-PROPELLED OHLE ACCESS UNIT

Diesel 3 cylinders, 31 kW



≈ 5,000 kg

Easy access to all points of the catenary (messenger & contact cables), including those in front of and behind the poles. Different versions also allow for lifting operations.

Key features		
Rail propulsion	Hydrostatic and retractable railway axles	
Track gauge	From 1,000 to 1,520 mm	
Maximum cant	180 mm	
Maximum rail gradient	40 ‰	
Minimum curve radius	40 m	

Available versions:

PFN: Cradle and a platform parallel to track axis / **2N**: 2 cradles / **IPC**: Platform perpendicular to the track + cradle / **PR-GR**: Flatbed with sideboards and a crane /

PR: Flatbed with sideboards / PF: Platform









for off-track work

ROAD-RAIL ELEVATOR

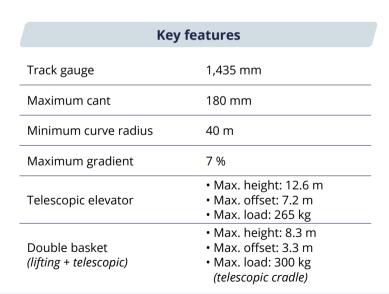
CATENARY MOTORIZED



Diesel 4 cylinders, 55 kW



≈ 12,000 kg



Ergonomic road-rail vehicle allowing the loading of

personnel and catenary equipment into the telescopic elevator from the ground and equipped with stabilizers







EMMA

ACTIVION MODULAR MAINTENANCE VEHICLE



) Battery



Base + module: ≈ 5,800 kg

Thanks to EMMA's Plug & Work System, you can easily switch between different working modules and adjust to your needs. Quick and secure rerailing, 100% electric operation. Ideal for urban networks.

Key	features
-----	----------

Rail traction	Electric
Track gauge	1,435 mm (others on request)
Maximum cant	160 mm
Maximum rail gradient	Up to 50 ‰
Minimum curve radius	18 m
Autonomy (by activity)	5h guaranteed work/max 15h

Available modules:

Platform + crane + pantograph / Platform + positioning arm / Double basket + pantograph / Working platform + crane / Stanchion tray + hydraulic power pack or Activion®









VEHICLES FOR CATENARY MAINTENANCE



Diesel **忙**) From 240 to 520 kW STEP IIIA to STEP V



From 26 to 78 t

High-performance axle or bogie vehicles for intervention at any point on the catenary. Their specialized highend equipment ensures the efficiency and speed of each intervention.



Discover a selection of our range of railcars in the Rolling Stock section (p.<?>)

Key features*

Maximum speed	From 80 to 100 km/h
Transmission	Hydrostatic + hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Crane capacity	From 8 to 15 t/m
Platform working height	From 6 to 7 m
Load capacity	From 4 to 7 t
Minimum curve radius	From 60 to 100 m





WMC

CATENARY MAINTENANCE

WAGON

Configurable solution depending on catenary maintenance needs: convoy work (wagons towed up to 100 km/h) or autonomous operation (self-propelled wagons traveling up to 15 km/h).

Key features	
Chassis assembling on wagon	Welded or bolted (twist-lock)
Minimum curve radius	80 m
Maximum cant	180 mm (track gauge: 1,435 mm)
Platform	• Max. load: 1,500 kg • Max. height: 6.5 m
Cradle	Max. load: 500 kgMax. height: 15.7 mMax. lateral outreach: 7.9 m
Crane	Max. lifting capacity: 3,300 kgMax. range: 10.3 m



Diesel







ROLLING/UNROLLING WAGON





Automation of catenary winding and unwinding with electronic tension control. High work rate thanks to numerous reels (up to 8) and quick reel setup by remote control ensuring precision and safety.

Key features	
Number of drums	2 to 8
Mechanical tension	Up to 4,600 daN (cable during unrolling)
Mechanical tension accuracy	< 3%
Wagons length	12 to 26 m
Unrolling speed	5 km/h
Rolling speed (reverse gear)	5 km/h





ACTIVION MODULAR MAINTENANCE VEHICLE

Double basket module

Platform + crane + pantograph module

- Plug & Work System: allowing for the storage and exchange of modules in a simple, quick, and secure manner (2 people can load a module without equipment).
- Wide range of modules: catenary inspection, cable unwinding and renewal, logistical support on track, etc.

Platform + positioning arm module









TRACK & TURNOUTS

- > LAYING & RENEWING 116
- > TRANSPORT 122







RAIL CHANGER

Lightweight aluminium design. New winch with simplified operation and handling of the winch from the adjacent track side. Possibility of tilt compensation by adjusting the height of the foot. Rail translation motion thanks to its guided flange rollers.

Key features	
Maximum working load	1,600 kg
Transversal stroke of the winch	2,310 mm
Height adjustment of the beam	7 notches from 100 mm
Maximum hook height	1,890 mm
Options	4-roller rail clamps, self-clamping, CMU 2T for Vignole rail



Manual



Heaviest element: 70 kg (total: 170 kg)









RAIL HANDLING MANUAL GANTRY

Manual

≈ 59 kg

The simplest method to replace rails or parts of switches. Lightweight, robust and easily adjustable, the gantry is made up of components that can be dismantled.

Key features		
Lifting type	Chain winch	
Stroke of the vertically adjustable leg	600 mm	
Chain length	1,454 mm	
Lifting force	990 daN <i>(990 kg)</i> or 2,000 daN <i>(2 t)</i>	
Type of rails	Vignole or grooved	
Dimensions (L x W x H)	2,770 x 840 x 1,450 mm	







LEVELING & SLEWING MACHINE



4-stroke Petrol or Diesel



LNR 528: 780 kg LNR 529: 950 kg

Thanks to its high handling capacity, the trolley allows for the manipulation of one rail line at a time or both simultaneously. Adjustable and optimised working speed thanks to its ergonomic remote control.

Key features		
Engine power	6.6 kW <i>(9 hp)</i>	
Slewing stroke	100 mm (LNR 529 only)	
Stroke of the cylinders	Lifting stroke: 800 mm Clamps ram stroke: 100 mm	
Lifting force	15,000 daN	
Dimensions (L x W x H)	LNR 528: 1,800 x 1,000 x 1,200 mm LNR 529: 1,800 x 1,000 x 1,400 mm	



Switch to electric with an equivalent model using the **Activion battery** (p.27)









HYDRAULIC GANTRIES FOR TRACK LAYING AND RENEWAL





PTH 350: 12 t per pair PTH 500: 21 t per pair (without sleeper beam)

The hydraulic laying gantries offer high efficiency, up to 300 m/h for new track and up to 250 m/h for track renewal.

	Key features	
	PTH 350	PTH 500
Diesel engine	55 kW <i>(75 hp)</i> to STEP V	100 kW <i>(136 hp)</i> to STEP V
Lifting force	18,000 daN per pair	30,000 daN per pair
Rescue auxiliary engine	One portable engine for each pair of gantries	
Max. working speed	16 km/h	
Max. gradient	3,50%	
Control desk	1 per pair (synchronized)	



Available with chain or hydraulic sleeper beam option









RAIL THREADER



្យា Diesel or petrol



1,065 kg (Petrol, Honda) 1,175 kg (Diesel, Hatz)

This machine requires a single operator to lay two long welded rails simultaneously. Assured of safe operation thanks to the clamp which is designed to remain locked. Great autonomy to travel to site thanks to its self-propelled design.

Key features		
Track gauge	From 1,000 to 3,340 mm	
Traveling speed	Up to 3.5 km/h	
Output	800 m/h	
Maximum gradient	35 ‰	
Lifting force	4,500 daN	
Lifting stroke	500 mm	
Maximum dimensions (L x W x H)	1,620 x <i>(3,058 to 3,722)</i> x 1,300 mm	









TRACK LINER





1,300 kg

Track liner that offers accurate lifting of track panels to replace pads, maintain rail joints or align/realign the track after tamping operations

Key features		
Track gauge	From 1,000 to 1,676 mm	
Maximum translation speed (in both directions)	18 km/h	
Lifting force	20 t	
Lifting stroke	0 to 1,150 mm	
Slewing force	10 t	
Slewing stroke	± 360 mm	
Minimum curvature radius	50 m	
Dimensions (L x W x H)	2,050 x 2,660 x 1,700 mm	









RAIL LOADER WITH MOTORIZED WINCH



Petrol or electric



620 kg (CR-FP)

Several rail loader models will allow easy set up on any standard flat wagon to provide loading and unloading options from either side of track.

Key features			
 CR: with manual winch & fixed colum CR-FP: with pivoting column & motorized winch CR-FPE: with pivoting column, motorized winch & remote control CR-A: automatic 			
Rail length	Up to 120 m in standard version (others on request)		
Lifting capacity	≈ 1 t per rail loader		
Lifting outreach	≈ 2,820 mm		
Cross level	180 mm		
Dimensions (L x W x H)	2,645 x 940 x 1,900 mm (CR-FP)		









HANDLING GANTRY FOR **CROSSINGS AND HALF SETS OF SWITCHES**





11.7 t

PMCs can unload themselves from a standard truck or wagon and the installation of the switch parts. Does not require a crane.

Key features		
Lifting capacity	12 t (4 winches of 3 t)	
Lifting stroke	1,850 mm	
Slewing stroke	1,375 mm	
Pressure on the ground	2 bar	
Number of electric chain winches	4	
Displacement speed	2.75 m/min	
Lifting speed	From 1 to 4 m/min	
Transport dimensions (L x W x H)	11,000 x 2,868 x 2,550 mm	









TRACK AND TURNOUT **SOLUTIONS**



Diesel

PEM: ≈ 4,750 kg LEM: ≈ 4,300 kg

The world's most widely used switch replacement system. Suitable for all turnout lengths and types by adapting the number of PEMs and LEMs.

Key features			
Lifting capacity	• PEM: 20,000 daN <i>(20 t)</i> • LEM: 20,000 daN <i>(20 t)</i>		
Number of sets (PEM + LEM)	From 2 to 16		
Mass track panel or turnout	Up to 240 t		
Track / turnout length	From 6 to 160 m		
Displacement speed	6 km/h		
Remote control	Yes		









TRACK & TURNOUTS LAYING **SOLUTION**





PEM ≈ 4,750 kg LEM ≈ 4,300 kg $LMC \approx 13,400 \text{ kg}$

The X-TRACK and X-TRACK² systems are one of the safest methods to lay turnouts up to 45 metres long and 45 tonnes.

Key features		
Lifting force	 PEM: 20,000 daN (20 t) LEM: 20,000 daN (20 t) LMC: 25,000 daN (25 t) 	
Number of PEM	From 2 to 4	
Number of LEM	1	
Number of LMC	• 1 (system X-TRACK) • 2 (system X-TRACK ²)	
Loading capacity	From 22 to 42 t	
Track/ turnout length	From 12 to 42 m	
Speed on caterpillars	From 1 to 3 km/h	
Remote control	Yes	







TRACK & TURNOUTS LAYING SOLUTION FOR TILTING WAGON



Sound-proof Diesel



11,000 kg

System offering the methodology to work quickly and efficiently in a safe manner to lay tracks. Unique design helping to avoid deformation of turnouts during handling and installation.

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Optimise your worksites with the WPA tilting wagon (p.122)

Key features			
Lifting force	20,000 daN <i>(20 t)</i>		
Lifting stroke	2,700 mm		
Lateral slewing stroke	2,000 mm		
Longitudinal slewing stroke	1,000 mm		
Maximum feet opening	6,000 mm		
Lateral offset of the clamp box	1,800 mm		
Auxiliary feet stroke	830 mm		
Remote control	Yes		







CATERPILLAR GANTRY FOR LAYING RAILS



Diesel, 100 kW



22,000 kg

A unique concept that simplifies the organisation of work sites for handling and laying track and track panels, concrete slabs or sleepers, thanks to optional hydraulic spreaders beam.

Key features		
Lifting force	20,000 daN <i>(20 t)</i>	
Lifting stroke	2,380 mm	
Slewing stroke	975 mm	
Maximum feet opening	3,516 mm	
Maximum speed while working	 Up to 4 km/h on caterpillars Up to 15 km/h on rails (with wheel-rail option) 	
Remote control	Yes	
Types of spreaders beam (optional)	20 sleepers3 concrete slabs of 5 m18 m track panels	









HANDLING GANTRY ON WAGON



Diesel



16,700 kg

Adapted to your railway maintenance handling needs (lifting beam for picking up track panels, switchgear parts, catenary components, mobile welding heat, etc.) in confined environments such as tunnels.

Key features	
Maximum use load	8,000 kg
Spreader lifting stroke	3,700 mm
Longitudinal translation stroke	5,000 mm
Lateral slewing stroke	± 600 mm (according to spreader axis)
Number of articulated trolleys	4
Number of rail clamps	4
Moving speed on wagon	2 km/h
Remote control	Yes









MOBILE RAIL UNLOADING SYSTEM



Petrol or Diesel



3,500 kg

Autonomous and independant from the rail transporting train, the EMD is an efficient way to unload long welded rails.

Key features	
Type of rails	All flat bottom rails
Working speed	5 km/h
Maximum gradient	3 % (other on request)
Remote control	Yes with 2 batteries
Wheel profiles	UIC- Ø 280 mm
Coupling bar	Forward and rear telescopic system
Dimensions (L x W x H)	5,480 x 2,510 x 1,300 mm







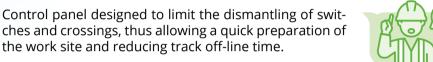
the work site and reducing track off-line time.

TILTING WAGON



Thermal hydraulic unit 30 kW





Unload turnouts with PWP gantry cranes (p.118)

Key features	
Track gauge	1,435 mm
Wagon length	27.5 m
Working speed	Up to 100 km/h
Working load	41 t
Maximum load dimensions	• Length: 26.2 m • Width: 4.2 / 4.4 m
Integrated safety systems	 Clearance gauge control Emergency platform lowering system Automatic platform

blocking system







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WORKSITE TRACK MOTORCAR



Diesel l(二) Up to 520 kW, STEP IIIA to STEP V



≈ 35 t

Bidirectional and double-axle track motorcar, capable of towing wagons thanks to its powerful transmission. Its spacious cabin for 6 operators, its crane, and 10 m² platform make for great versatility. Compliance with EN14033-1,2 & 3 regulations for high safety standards.



Other configurations are available for the VMT GR series (please contact us)

Key features	
Maximum travel speed	100 km/h
Transmission	Hydrostatic + hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Crane capacity	From 8 to 24 t/m
Platform area	10 m ²
Useful load	5 t
Minimum curve radius	120 m at 20 km/h
Maximum gradient	≈ 30 ‰









WORKSITE MOTORCAR WITH BOGIES FOR **URBAN NETWORKS**



Diesel ₩ Up to 520 kW, STEP IIIA to STEP V



≈ 40 t

Specifically designed for the constraints of urban networks and customizable with a wide range of engines and hydraulic transmissions based on the desired performance. Compliant with the most stringent UIC, AAR, or EN standards.



Other configurations are available for the VMB GR series (please contact us)













CATENARY MAINTENANCE **MOTORCAR**



Diesel l(二) Up to 520 kW, STEP IIIA to STEP V



≈ 36 t

Access to any point of the catenary via high-performance platforms. Operator safety ensured by the latest generation mechanical and electrical components. Ideal for working in confined environments such as tunnels.



Other configurations are available for the VMT CGR series (please contact us)

Key features	
Maximum speed	100 km/h
Transmission	Hydrostatic + hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Cradle capacity	Up to 350 kg at 11.2 m high
Platform capacity	Up to 600 kg at 7 m high
Crane capacity	Up to 25 t/m
Minimum curve radius	90 m
Maximum gradient	≈ 30 ‰









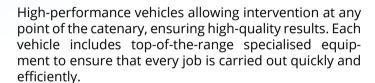
OHI MAINTENANCE TRACK MOTORCAR **WITH BOGIES**



Diesel ₩ Up to 520 kW, STEP IIIA to STEP V

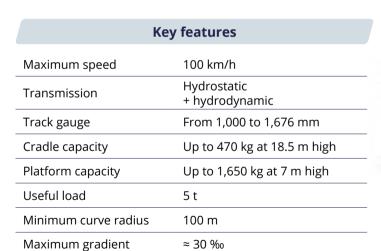


≈ 78 t





Other configurations are available for the VMB CGR series (please contact us)













TRACK MEASUREMENT AND CONTROL MOTORCAR



Diesel l(二) Up to 390 kW, STEP IIIA to STEP V



≈ 35 t

High-speed recording of all track and surroundings parameters, with minimal traffic disruption. Integration of various measurement systems depending on the infrastructure.



Other configurations are available for the VMT MT series (please contact us)

Key features	
Maximum speed	100 km/h
Transmission	Hydrostatic + hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Measurements (non-exhaustive list)	 Track geometry, rail geometry, rail corrugation measurement, running quality, obstacles pro- file and ultra-sound inspection 3rd rail measurement Infrared measurement Catenary measurement
Minimum curve radius	120 m at 20 km/h











TRACK MEASUREMENT AND **CONTROL MOTORCAR** WITH BOGIES - 80 KM/H



Diesel (上) Up to 390 kW, STEP IIIA to STEP V



≈ 45 t

Recording of all track and surroundings parameters with minimal traffic interruption. Integration of different measurement systems based on the infrastructure.



Other configurations are available for the VMB MT series (please contact us)

Key features	
Maximum speed	80 km/h
Transmission	Hydrostatic
Track gauge	From 1,000 to 1,676 mm
Measurements (non-exhaustive list)	 Track geometry, rail geometry, rail corrugation measurement, running quality, obstacles profile and ultra-sound inspection 3rd rail measurement Infrared measurement Catenary measurement
Minimum curve radius	60 m at 20 km/h











TRACK MEASUREMENT AND **CONTROL MOTORCAR** WITH BOGIES - 120 KM/H



Diesel (上) Up to 520 kW, STEP IIIA to STEP V



≈ 60 t

High-speed recording and real-time analysis of all track parameters, allowing for quick interpretation of results. High-performance measurement units adapting to the network infrastructure.



Other configurations are available for the VMB MT series (please contact us)

Key features	
Maximum speed	120 km/h
Transmission	Hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Measurements (non-exhaustive list)	 Track geometry, rail geometry, rail corrugation measurement, running quality, obstacles profile and ultra-sound inspection 3rd rail measurement Infrared measurement Catenary measurement
Minimum curve radius	120 m at 20 km/h











LIGHTWEIGHT TRACK AND INFRASTRUCTURE INSPECTION VEHICLE



Honda GX200 Petrol - 4-stroke



445 kg

Lightest motorized trolley in the Vigilis range, capable of transporting up to 4 people to inspect tracks and railway infrastructures. Easy operation in both directions without needing to turn the vehicle around.

Key features	
Engine power	5.8 hp - 3,600 rpm
Track gauge	1,435 mm (others on request)
Speed	0 to 20 km/h
Autonomy	35 km (full tank)
Dimensions (L x W x H)	2,715 x 1,650 x 1,000 mm
Options (non-exhaustive list)	On/off tracking deviceInsulated wheels1t trailerRoad transport trailer









INSPECTION VEHICLE



Diesel 19 hp *(14 kW)*



2,300 kg

Motolorry featuring a spacious cabin for up to 6 passengers and 1 driver, whose adjustable seat allows for good visibility in both directions of travel.

Key features	
Track gauge	1,435 mm
Maximum speed	50 km/h (on flat track)30 km/h (on flat track with 1-ton trailer)
Minimum curve radius	80 m
Maximum gradient	60 ‰
Lighting	Cabin (LED)Front/rear of the vehicle (traveling)
Autonomy	8 h
Dimensions (L x W x H)	3,680 x 1,830 x 2,400 mm







TRACK INSPECTION VEHICLE



Diesel 48 hp *(36 kW)*



2,490 kg

Specifically designed to inspect and control the track and its components, day and night, featuring a powerful LED spotlight system. Quick on/off tracking thanks to a self-propelled remote-controlled system on pneumatic wheels.

Key features	
Track gauge	1,435 mm (others on request)
Transmission	Hydrostatic
Tank capacity	80 I
Maximum speed	• 3 km/h on tyre wheels • 30 km/h on rails
Equipment	2 driver seats, 2 passenger seats, control panel, windshield wipers, display screen, heating and air conditioning
Dimensions (L x W x H)	2,490 x 2,530 x 2,900 mm







SHUNTING LOCOMOTIVE



្ហា Diesel, 348 kW



^ ≈ 40 t

Equipped with bidirectional transmission, this shunting locomotive offers excellent visibility in both directions. Thanks to its ability to work in multiple unit operation, it provides high traction capacity.

Key features		
Emission standard	STEP IIIA to STEP V	
Maximum speed	80 km/h	
Track gauge	From 1,000 to 1,676 mm	
Minimum curve radius	65 m	
Transmission	Hydrostatic, hydrodynamic	
Options	Automatic couplingATP systemDevice for multiple units	









SHUNTING LOCOMOTIVES

Diesel 比) VTB 1 000: 750 kW VTB 1 000 H: 2 x 400 kW



≈ 75 t

The The VTB 1 000 shunting locomotive meets the highest traction requirements, even on tracks with a steep gradient. Its great autonomy allows it to work up to 23 hours straight. It offers perfect visibility to the front and rear, according to UIC 651 standards.

Key features		
Maximum speed	80 km/h	
Track gauge	From 1,000 to 1,676 mm	
Minimum curve radius	70 m	
Start-up and towing	• VTB 1 000: 1,800 t (on flat track) • VTB 1 000 H: 1,600 t (on flat track)	
Transmission	• VTB 1 000: hydrodynamic • VTB 1 000 H: hydrostatic	
Multiple units	2 x VTB 1 000 = traction performance doubled	







MA10 / TR10

TROLLEY / UNIVERSAL TROLLEY



MA10: hand-pushed TR10 : towed

MA10: 250 kg TR10: 400 kg

Lorrys made of forged steel, providing rock-solid strength for transporting a wide range of equipment and materials. The TR10 model can carry rails, pre-assembled track panels and turnouts.



Key features		
	MA10	TR10
Maximum speed	5 km/h	30 km/h
Stroke of the sliding platform	-	± 247 mm
Pivoting range of the platform	-	± 4.3 °
Dimensions (L x Wx H)	845 x 1,900 x 345 mm	2,100 x 855 x 505 mm
Track gauge	From 1,000 to 1,435 mm	
Load capacity	10 t	







LIGHTWEIGHT TROLLEY



Hand-pushed



56 kg

Lightweight trolley allowing a single operator to push up to 1 ton of tools and equipment. Its 4 insulated steel rollers do not interfere with the track. Screw brake available for increased safety.

Key features		
Track gauge	1,435 mm (others on request)	
Load capacity	1,000 kg	
Material	Steel	
Platform type	Painted steel, painted wood or aluminium	
Brake system	With or without screw brake	
Wheels	Ø 58 mm	
Platform dimensions (L x W x H)	1,718 x 748 x 199 mm	







ALUMINIUM LIGHTWEIGHT TROLLEY



Hand-pushed



From 32 to 47 kg depending on model

Light trolley allowing easy transport of heavy loads on the railway track, meeting the requirements of demanding markets including high-speed lines.



The model presented here is equipped with the bidirectional dead-man option

Key features		
Load capacity	1,000 kg	
Platform type	Mechanically welded light alloy grating	
Brake system	Manual or dead man type	
Maximum gradient	40 ‰	
Compliance	EN13977	
Platform dimensions (L x W)	1,670 x 798 mm	
Options	 Push bar with dead-man brake device Push bar with dead-man brake bidirectional device 	









SELF-PROPELLED TROLLEY



Honda GX160



208 kg

Dismountable and self-propelled trolley with removable hydraulic power unit designed for equipment transport. The trolley can operate, brake and perform emergency braking with a cable remote control.

Key features		
Track gauge	1,435 mm (others on request)	
Load capacity	1,000 kg	
Travel speed	From 0 to 5 km/h	
Maximum gradient	40 ‰	
Material	Aluminium	
Brake system	Manual or dead-man type	
Wheels	Ø 200 mm	
Platform dimensions (L x W x H)	2,333 x 1,750 x 333 mm	







RESCUE TROLLEY





From 150 to 400 kg according to needs

Designed for the transport operations of railway vehicles in case of an emergency, the trolley is fully configurable according to the track gauge, axle load, wheel diameter and profile, loading height, and bogie lifting height.

Key features		
Load capacity	From 10 to 35 t	
Track gauge	1,435 mm (others on request)	
Wheels	Ø 250 mm (UIC profile)	
Railway vehicle wheel diameter	From 700 to 1,260 mm (to be defined)	
Maximum hauling speed	25 km/h	
Dimensions in working order (L x W x H)	1,770 x 1,300 x 260 mm	







		X
70	ROAD-RAIL TRUG & EXCAVATORS	CKS
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> ACCESSORIES FOR







ROAD-RAIL VEHICLE FOR HANDLING OF RAILWAY EQUIPMENT



Diesel Euro 6 - 11 L 430 hp *(316 kW)*



GVW ≈ 26 t

Handling a wide variety of equipment such as unwinding reels, herbicide tanks, baskets, etc. The addition of a tipping loading bucket and foldable sideboards makes it a complete truck.

Key features		
Road carrier	Renault C 430 P 6 x 4	
Cabin	Single - 1 + 2 persons	
Maximum speed	• 30 km/h on rail • 90 km/h on road	
Railway configuration	Lorry/BogieHydrostatic driveTyres off the rail	
Equipment	Standard handling crane, standard adaptable basket, dump trailer pantograph	
Dimensions (L x W x H)	10,140 x 2,980 x 3,800 mm	









ROAD-RAIL FLASH-BUTT **WELDING TRUCK**



Diesel Euro 6 - 13 L 490 hp *(360 kW)*



GVW ≈ 32 t

Complete range of welding heads: FLASH 600 (600 kN), FLASH 1000 (1,000 kN), FLASH 1200 (1,200 kN). Closure welding during release operations to return the track to service (FLASH 1200).



Available in Euro 3 - UIC version (V2R U-1030 W) and Euro 3 - metric version (V2R M-1030 W)

Key features		
Road carrier	Renault C 490 - P 8 x 4 Tridem	
Cabin	Single - 1 + 1 persons	
Maximum speed	• 25 km/h on rail • 90 km/h on road	
Railway configuration	Lorry/BogieHydrostatic driveTyres off the rail	
Welding head	Welding type: flash weldingRail type: Vignole and grooved from 36 to 75 kg/m	
Dimensions (L x W x H)	10,250 x 2,790 x 3,731 mm	









BI-MODE ROAD-RAIL OVERHEAD CONTACT LINE MAINTENANCE VEHICLE



Diesel / Biodiesel or CNG



GVW ≈ 19 / 20 t

Dual-mode petrol engine and electric motorization: cleaner and quieter. Hydrostatic drive and tyres off the rail to protect its surface. Spacious platform with high payload capacity for all work needs.

Koy fostures

Rey leatures		
Road carrier	lveco S-Way 4 x 2	
Cabin	Single - 1 + 2 persons	
Maximum speed	• 30 km/h on rail • 90 km/h on road	
Railway configuration	Lorry/BogieHydrostatic driveTyres off the rail	
Working platform	4.32 x 2.10 m (9.1 m²)	





Dimensions (L x W x H)

8,577 x 2,950 x 3,340 mm





LIGHTWEIGHT UTILITY **ROAD-RAIL VEHICLE**



L Diesel



≈ 960 kg

Ideal road-rail solution for transporting personnel and light equipment on site. Traction/propulsion capacity for rail trailers and specific measuring equipment. Fully adjustable rear loading bucket with a capacity of 450 kg.

Key features	
Road carrier	Kawasaki Mule
Cabin	Single + 6 persons (on rail)
Maximum speed	• 32 km/h on rail • 48 km/h on road
Railway configuration	Tyre drive + guiding axlesTyres on rail
Loading in deck	150 kg (with 6 persons)450 kg (with 2 persons)
Towing capability	Up to 3,500 kg
Braking system	Air braked trailer in rail mode
Dimensions (L x W)	3,861 x 1,725 mm (railway axle extended)









ROAD-RAIL VEHICLE FOR INSPECTION AND TRANSPORT OF LIGHT EQUIPMENT



L Diesel



≈ 2,575 kg

Access work sites closely by rail, minimizing risks associated with walking. Track inspection, easy transport of teams and light equipment. Road vehicle limited to 3.5 tons, driven with a standard driving license.

Key features	
Road carrier	Toyota Hilux 4x4
Cabin	Single - 1 + 4 persons
Maximum speed	• 32 km/h on rail • 112 km/h on road
Railway configuration	• Tyre drive + guiding axles • Tyres on rail
Trunk capacity	• 545 kg • 1.5 m³
Braking system	Air brakes in rail mode
Towing capability	Up to 3,500 kg
Dimensions (L x W x H)	5,325 x 1,855 x 2,120 mm











ROAD-RAIL VEHICLE FOR TRACK CLEANING



Diesel, CNG or full electric



GVW ≈ 12.1 t

Versatile cleaning solution with high-pressure jets for grooved rails and brushes for the platform. Precise cleaning with the high-pressure gun, manual suction, and its detachable third brush for station platforms.

Key features	
Cabin	Single - 1 + 1 persons
Maximum speed	12 km/h sweeping25 km/h traveling
Railway configuration	Tyre drive + guiding axlesTyres on rail
Capacity	Dumpster: 4,000 LWater: 1,250 L
Dimensions (L x W x H)	6,480 x 2,280 x 2,980 mm (on rail with 3 rd brush)









ROAD-RAIL EXCAVATOR



Diesel 129 kW up to STEP V



≈ 21 t

Thanks to its high lifting capacities and a wide range of interchangeable accessories, the KGT 220 is one of the most economical and high-performance excavators. It can be equipped with rail couplings to allow the towing of heavy convoys.

Key features	
Track gauge	From 1,000 to 1,676 mm
Transmission	Pneumatic friction on drums
Maximum speed	• 30 km/h on rail • 40 km/h on road
Maximum pressure and hydraulic flow	110 l/min & 210 bar
Lifting arm	Two-element arm
Lifting capacity	Up to 5.1 t at 7.2 m
Number of steering axles	2









POWERFUL ROAD-RAIL EXCAVATOR



Diesel 129 kW up to STEP V



≈ 28 t

Multifunctional road-rail machine ideal for carrying out various railway works, including lifting operations. Automatic load control system eliminating any risk of tipping and derailment.

Key features	
Track gauge	1,435 mm (others on request)
Transmission	Pneumatic friction on rail wheels
Maximum speed	• 30 km/h on rail • 30 km/h on road
Maximum pressure and hydraulic flow	250 l/min & 320 bar
Lifting arm	Two-element arm
Lifting capacity	Up to 6.2 t à 7.2 m
Number of steering axles	2











MB2 TL

DOUBLE-HEADED TAMPING MODULE

(see p.94)

Ballast | Tamping



MB8 AC

TRACK AND TURNOUTS TAMPING UNIT (see p.95)



TRACK LEVELING SYSTEM

Ballast | Cleaning



BRV

TRACK BRUSH (see p.96)



OBA

BALLAST BRUSH





Ballast | Clearing / Equilizing





BALLAST UNDERCUTTER BLADE



OLR

BALLAST REGULATOR BLADE



OLD

BALLAST EQUILIZING BLADE



MODULAR SLEEPER REPLACER

(see p.89)



OBP 9

CLAMSHELL BUCKET



Track surroundings | Seasonal / Weed control

LAM







Track surroundings | Excavation / Handling













Track surroundings | Excavation / Handling







ELECTRO-MAGNET WITH OR WITHOUT GENERATING SET

Rail | Handling



FOUR-ROLLER RAIL THIMBLE - 5T

FRONT BUCKET



OMR H

FOUR-ROLLER HYDRAULIC RAIL THIMBLE - 2T



OMR 20

HYDRAULIC ROLLERS RAIL THIMBLE FOR LWR - 20T



PAR

Rail | Handling (continued)





PAR 481
RAIL HANDLING BEAM



PER 495

RAIL CHAIN BEAM

TELESCOPIC RAIL HANDLING BEAM



PRC 489

CURVED RAIL HANDLING BEAM



PRR 488

ROTATING RAIL PANEL HANDLING BEAM





Sleepers | Handling







PA2T **ROTATING SLEEPER GRAB**





EXPENDABLE MANUAL CHAIN BEAM





HYDRAULIC BEAM



PTV 881

HYDRAULIC VARIABLE **BI-BLOCK CONCRETE** SLEEPERS SPACING BEAM



PTV 897-5

HYDRAULIC VARIABLE MONOBLOC CONCRETE SLEEPERS SPACING BEAM





Earthwork | Excavation









OHL | Installation





STRINGING / WINDING UNIT







- > CLEARANCE & STRUCTURE 167
- > TRACK & CLEARANCE 168







COMBINED UNIT FOR TRACK GAUGE AND LEVEL MEASUREMENT



ង្ហ Mechanical



2.4 kg (according to gauge)

Designed for instantaneous measurement of the track gauge and cross-level. Robust and lightweight, it is easy to use thanks to its mechanical buttons and adjustment screws.

Key features		
Model features	Dedicated for plain track	
Track gauge	Available for all gauges and all types of turnouts	
Dimensions (L x W x H)	1,635 x 100 x 165 mm	









COMBINED TRACK AND TURNOUTS GAUGE FOR CANT AND GAUGE MEASUREMENT



Mechanical



2.5 kg (according to gauge)

Designed for instantaneous measurement of the track gauge, cross level, groove width, back-to-back distance and frog nose to check rail. Robust, lightweight, and easy to use.

Key features	
Model features	Dedicated for plain track and turnouts
Track gauge	Available for all gauges and all types of turnouts
Dimensions (L x W x H)	1,635 x 100 x 165 mm









garnet-dl

DIGITAL TRACK GAUGE FOR TRACK AND SWITCH GEOMETRY MEASUREMENT



Battery Autonomy: 200 h (without backlighting)



3 kg

The Garnet-DL offers precise measurement with a clear display. It is lightweight, waterproof, and compatible with all types of tracks. Connectable via Bluetooth, it allows data to be transferred and analysed on a PC.



	Key features
Display	16 x 2 characters as well as a smartphone display
Measurements	Gauge, cross level, twist, rail/opposite check-rail, flangeway clearance, switchblade opening, back-to-back check-rail
Operating temperature	-10°C to +50°C









MANUAL TRACK RECORDING **UNIT**



Battery Autonomy: 40 h



≈ 13 kg

Trolley designed with GRP tubes, robust and lightweight, ensuring precise measurements. Easy to assemble and transport, it connects via Bluetooth to display and record data on a smartphone.

Key features	
Display	All measurements displayed on smartphone
Measurements	Gauge, cross level, twist, speed, distance
Contact point	14 mm below rail head
Operating temperature	-5°C to +50°C
Track gauge	Available for all gauges







TRACK GEOMETRY AND VERSINE DIGITAL MEASURING AND RECORDING TROLLEY



Battery Autonomy > 10 h



TOPAZ 250: 22 kg TOPAZ 500: 26 kg

The Topaz 250/500 trolleys measure and display track geometry in real-time on a smartphone. Lightweight and ergonomic, they are easy to transport and install. Data is processed on a PC.



Key features		
Length of the measuring arm	• TOPAZ 250: 2.5 m • TOPAZ 500: 5 m	
Display	All measurements displayed on a smartphone	
Measurements	Gauge, cross level, twist, horizontal & vertical alignment, distance, curvature radius	
Contact point	0-14 mm below rail head	
Minimum curve radius	• TOPAZ 250: 25 m • TOPAZ 500: 90 m	
Track gauge	Available for all gauges	
Operating temperature	-5 °C to +50 °C	







diamond-s2#

TRACK GEOMETRY & SWITCH GEOMETRY DIGITAL MEASURING PORTABLE TROLLEY



Battery Autonomy < 8 h



25 kg

The Diamond-S2 trolley records track parameters accurately using a laser and a GPS. Its touchscreen interface is user-friendly. Lightweight and portable, it can be deployed in 2 minutes.

Key features	
Display	All measurements are displayed on a high brightness PC screen
Measurements	Track gauge, cant, left, two dimension set between the rail and the guard rail, and between the switchblade and the stock rail, distance
Contact point	14 mm below rail head
Track gauge	Available for all gauges
Operating temperature	-5°C to +45°C







emerald»

TOWED TRACK RECORDING UNIT



Battery Autonomy: 8 h



≈ 63 kg

The Emerald trolley measures track geometry parameters at speeds up to 20 km/h. Towed by a road-rail vehicle, it records geolocated data on a tablet, connected via Bluetooth or Wi-Fi.



Key features	
Display	All measurements are displayed on a 7 in. high-resolution tablet
Measurements	Gauge, cant, twist, warp, traveled distance, speed and GPS location
Max. measuring speed	20 km/h
Accuracy	1 mm (depending on speed & track)
Contact point	14 mm below rail head
Operating temperature	5°C to +50°C
Track gauge	Available for all gauges







LASER ALIGNMENT AND LEVELING SYSTEM

Battery

Autonomy: 100 h



Laser source: 2 kg

Target: 1 kg

Compact, lightweight, and quick to install system using a laser measurement system. Bubble levels mounted on each subassembly ensure complete horizontality before measurement.

Key features		
Target dimensions	• H = +/- 200 mm • V = +/- 90 mm	
Measurements	Horizontal and vertical Versine	
Operating temperature	-10°C to +50°C	





rectirail dl2#

PORTABLE ELECTRONIC STRAIGHTNESS MEASURER



Battery
Autonomy < 8 h



5 kg

The Rectirail-DL2 measurer easily and accurately measures rail straightness. Connects via Bluetooth to a smartphone with GPS function for profile display and data storage. Its magnetic stops and 100 sensors ensure precise measurements.



Key features		
Display	All data shown on smartphone screen	
Measurements	1 sample every 10 mm (100 sensors over a one-meter base)	
Accuracy	±12,5 µm	
Operating temperature	0°C to +45°C	





mephisto;

LASER SURVEY RECORDER



Battery Autonomy > 300 measurements



< 13 kg

The Mephisto precisely measures the position of the track and catenary elements using a pivoting laser meter. It features ergonomic controls, detachable components, and is easy to transport.

Key features		
Display	All measurements displayed on system screen	
Measurements	 Position of track (fixed point, low point) Track structure gauge Infringements to track structure gauge Position of reception areas (platform edges, walls) Bridges curvature OHL position Position of the edge & platforms Distance between tracks 	
Operating temperature	-10°C to +50°C	









TRACK MEASUREMENT AND CONTROL MOTORCAR



Diesel from 300 to 520 kW, STEP IIIA to STEP V



From 30 to 60 t

Axle or bogie railcars enabling high-speed recording of all track and surroundings parameters, with minimal traffic interruption. Integration of various measurement systems depending on the infrastructure.



Discover a selection of our range of railcars in the **Rolling Stock** section (p.128)

Key features*		
Maximum speed	From 80 to 120 km/h	
Transmission	Hydrostatic or hydrostatic + hydrodynamic	
Track gauge	From 1,000 to 1,676 mm	
Measurements (non-exhaustive list)	 Track geometry, rail geometry, rail corrugation measurement, running quality, obstacles pro- file and ultra-sound inspection 3rd rail measurement Infrared measurement Catenary measurement 	
Load capacity	From 4 to 7 t	
Minimum curve radius	From 60 to 120 m	











>	CUTTING	17	′0
>	CUTTING & DRILLING	17	11
>	BRUSHING	17	72
>	WELDING	17	73
>	STRAIGHTENING	17	4
>	GRINDING	17	77







RAIL CARBIDE SAWING MACHINE

4

Total power: 100 kW



11,000 kg

Designed for rail cutting, the SC 800 uses carbide-tipped blades with a 20° cutting angle. Reduced operating costs thanks to automation and the durability of consumables.

Key features			
Rail type	Vignole (up to 75 kg/m)		
Cutting performances	 Average cycle time: < 30 s Cutting squareness: < 0.5 mm Standard blade diameter: 710 mm Blade stroke: 350 mm Rotational speed: 70 rpm Feed speed: up to 600 mm/min 		
Clamping force	 Vertical rail clamping: 4 x 70 kN Horizontal rail clamping: 2 x 35 kN (inside) / 2 x 90 kN (outside) 		
Dimensions (L x W x H)	3,500 x 2,800 x 2,200 mm		









RAIL CARBIDE SAWING AND DRILLING MACHINE 6-SPINDLES



Total power: 180 kW



15,000 kg

Drilling and cutting quality ensured by carbide-tipped drills and hydraulic blade drive. Simultaneous drilling and cutting for optimal efficiency with reduced cost thanks to automation and the durability of consumables.

Key features	Kev	/ features
---------------------	-----	------------

Rail type	Vignole or grooved (up to 75 kg/m)
Sawing and drilling performances	 Average cycle time: < 30 s Cutting squareness: < 0.5 mm Standard blade diameter: 710 mm Rotational speed: 70 rpm Feed speed: up to 600 mm/min Number of drilling units: 6 (up to Ø 38 mm)
Clamping force	 Vertical rail clamping: 4 x 70 kN Horizontal rail clamping: 2 x 35 kN (inside) / 2 x 90 kN (outside)
Dimensions (L x W x H)	5,400 x 2,800 x 2,200 mm







AUTOMATIC RAIL END BRUSHING MACHINE



Rated power: 50 kW



5,700 kg

Simultaneous automatic brushing of one or two rail ends without moving them, with programmed cycles. Efficient cleaning of contact surfaces before flash-butt welding. Intuitive touch control panel and synchronization with the welder.

Key features		
Rail type	Vignole (up to 75 kg/m)	
Brushing performances	 Max. rotational speed: 2,900 rpm Upper brush power: 11 kW Lower brush power: 22 kW Average cycle time: < 2 min 30 Brushing length: up to 420 mm Brush diameter: 180 to 250 mm Upper brush width: 120 mm Lower brush width: 180 mm 	
Dust suction	 Suction air flow: 4,000 m³/h Fan power: 7.5 kW 	
Dimensions (L x W x H)	4,000 x 1,400 x 2,000 mm	









FLASH-BUTT RAIL **WELDING MACHINE**



Rated power: from 150 to 240 kVA*



Up to 17,000 kg*

The range of Flash Titan electric rail welding heads allows for the rapid welding of all types of railway rails with an automated process. The welding head is integrated into a container that fits within the dimensions of a standard container + ISO 20' fixation.



Available in 3 forging forces: FLASH 600 | FLASH 1000 | FLASH 1200 (600 kN)(1,000 kN)(1,200 kN)

Key features		
Rail type to be welded	Vignole and grooved from 36 to 75 kg/m	
Technology	Flash-butt welding	
Welding time	2.5 to 3 min	
Deburring	Integrated (& independent on FLASH 1200)	
Enclosure weld after stress release	FLASH 1200 only	
Container dimensions (L x W x H)	6,038 x 2,550 x 2,400 mm	



* depending on welding head







RAIL WELD TESTING PRESS



Rated power: 10 kW



4,000 kg

Robust hydraulic machine for precise testing of rail welds with real-time display. Compliant with EN 14587-1 and EN 14587-2 standards. Automatic data recording for subsequent analysis.

	1	
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14	X	
4	Υ	

Machine suitable for use and transport in a container

Key features		
Rail type	Vignole (up to 75 kg/m)	
Minimum length of samples to be tested	1,200 mm	
Pressing performances	 Maximum force: 2,500 kN (3,000 kN for the PE 300 version) Cylinder stroke: 200 mm Distance between anvil-blocks: 1,000 mm 	
Dimensions (L x W x H)	2,000 x 1,200 x 2,300 mm	









HYDRAULIC 4-WAY MOBILE STRAIGHTENING PRESS WITH LASER MEASURING DEVICE

Rated power: 38 kW



18,000 kg

Robust and powerful machine ensuring quick rail straightening. Press mounted on a mobile platform allowing precise positioning at the weld. Reduced operating cost thanks to optional automatic operation.

Key features		
Rail type	Vignole (up to 75 kg/m)	
Pressing performances	 Vertical force: 2,500 kN (250 t) Horizontal force: 1,200 kN (120 t) 	
Measuring performances	Number of laser sensors: 3Length of the measured area: up to 1.5 m	
Automated operation	Optional	
Dimensions (L x W x H)	4,250 x 2,400 x 2,600 mm	







HYDRAULIC 4-WAY STRAIGHTENING PRESS WITH LASER MEASURING DEVICE

4

Rated power: 52 kW



24,000 kg

Stationary machine for straightening rail ends – finishing in rail rolling mills. The integrated laser measurement provides a high degree of precision, ensuring perfect rail straightness.

	Key features
Rail type	Vignole (up to 75 kg/m)
Pressing performances	• Vertical force: 3,500 kN <i>(350 t)</i> • Horizontal force: 2,000 kN <i>(200 t)</i>
Measuring performances	 Number of laser sensors: 3 Length of the measured area: up to 3 m
Automated operation	Optional
Dimensions (L x W x H)	4,200 x 2,300 x 2,500 mm







AUTOMATIC RAIL FOOT GRINDING MACHINE



Rated power: 25 kW

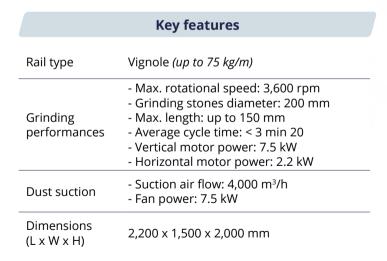


3,000 kg

The MS 200 grinder allows the removal of weld bead residue under the rail foot after welding and deburring for optimal contact with the sleepers. Compatible with the MAS 150, it is available in a fully automatic version (model MSA 200).



Machine suitable for use and transport in a container











AUTOMATIC RAIL WELD GRINDING MACHINE



Rated power: 42 kW



7,500 kg

Automatic rail weld grinding machine specially designed for finishing grinding of rails in workshop. It precisely restores the geometric continuity of the two welded rails.



Machine suitable for use and transport in a container

Key features		
Rail type	Vignole up to 75 kg/m	
Grinding performances	 Max. rotational speed: 5,400 rpm Grinding stones diameter: 150 mm Grinding stroke: ± 500 mm Automated cycle: > 4 min Motor power: 10 kW 	
Dust suction	• Suction air flow: 3,000 m³/h • Fan power: 5.5 kW	
Straightness measuring device	Rail straightness measuring device embedded onto the grinding beam, model PCM 31 <i>(option)</i>	
Dimensions (L x W x H)	5,400 x 2,350 x 2,500 mm	









AUTOMATIC RAIL WELD GRINDING MACHINE WITH LASER MEASURING SYSTEM

4

Rated power: 25 kW

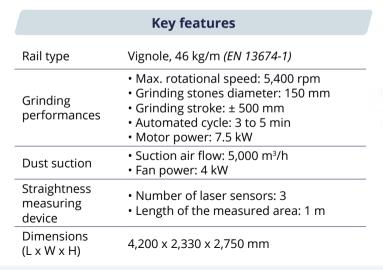


7,500 kg

Rail grinding machine mounted on a mobile platform allowing precise positioning without any movement of the welded rail. Automatic grinding of the rail head over 1m and 500mm on either side of the weld. Measuring device integrated into the grinding beam.



Machine suitable for use and transport in a container











WORKSHOP HYDRAULIC HORIZONTAL RAIL BENDER



ን Three-phase electric



4,000 kg

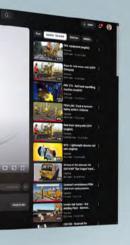
High-efficiency workshop machine designed for bidirectional bending and straightening of Vignole and grooved rails in the horizontal plane. CE compliant, featuring a system for measuring the advance of the bending rollers.

Key features			
Engine(s)	Three-phase 230 or 400 V electric motor, 50 Hz 5.5 kW at 3,000 rpm		
Number of rollers	6 of Ø 350 mm (variable for grooved rails)		
Bending moment	175 kN.m		
Bending force	400 kN		
Bending stroke	± 200 mm		
Minimum bending radius	Vignole rail: 5 mGrooved rail: 20 m		
Dimensions (L x W x H)	2 350 x 1 750 x 1 200 mm		













Discover the FLASH TITAN rail welding machine in video





MAINTENANCE KIT

SMARTPACK®

Easy implementation of engine maintenance and servicing recommendations.

Enables servicing to be carried out in accordance with the maintenance schedule.

Maintenance scope: 1 year



WEAR & TEAR KIT

Wear/emergency/accessory kit solutions.

Composed of the most frequently used parts to be replaced, to prevent machine downtime and risks.

> Maintenance & wear kits

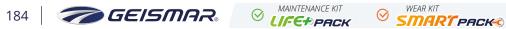
Machine	Kit number	Kit contents
> Rail cutting mack	nines	
MTZ	KEMTZTS8001A Maintenance kit MTZ - 1 year - TS800 engine	2x Stihl kit with air filter+additional/spark plug/strainer / 2x Air filter / 1x Drive belt / 1x Pressure washer / 1x Clamping screw
N05563 S19 engine (TS800)	KUMTZ-01 Wear kit MTZ - 01	1x Clutch / 1x Launcher / 1x Anti-parasitic / 1x Decompression valve / 1x Cap / 1x Tappet / 1x Silencer protector + Rivet plast / 3x Silencer protector + Rivet plast / 1x Protector housing / 1x Belt housing / 1x Motor flange + Pin / 1x Motor flange + Pin
MTZ400	KEMTZ400TS8001A Maintenance kit MTZ - 1 year - TS800 engine	2x Stihl kit with air filter+additional/spark plug/strainer / 2x Air filter / 1x Drive belt / 1x Pressure washer / 1x Clamping screw
N05612 / N05613 (S19 engine)	KUMTZ-02 Wear kit MTZ 400 - 02	1x Clutch / 1x Launcher / 1x Anti-parasitic / 1x Decompression valve / 1x Decompression valve / 1x Cap / 1x Tappet / 1x Silencer protector + Rivet / 3x Silencer protector + Rivet / 1x Protector housing / 1x Belt housing / 1x Flange / 1x Elastic pin
SHARK ST260L04 / N07201	KESHARK1A Maintenance kit SHARK - 1 year	1x Filter element / 2x Elastic cap / 1x Pressure washer / 1x Clamping screw / 1x Discharge connector plug
	KUSHARK-01 Wear kit SHARK	1x Protective cover / 2x Handle / 1x Pusher / 1x Filter cover / 1x Flexonic belt / 1x Guard / 4x Foot / 1x Vise clamping screw / 1x Vise clamping screw / 1x Vise clamping screw







Machine	Kit number	Kit contents
> Rail grinding mad	hines	
MP6 ST680A04 /	KEMP6GX2001A Maintenance kit MP6 - 1 year - GX200 engine	2x Honda kit with oil/air filter/spark plug / 4x Air filter (17218-ZE1-821 Obsolete) / 1x Engine immobiliser harness / 1x Fuel hose / 4x Suspension / 1x Fuel return nipple / 1x Complete tank banjo / 1x Complete tank banjo / 2x Complete tank banjo / 1x Fuel filter
ST680A03 (H68 engine)	KUMP6-01 Wear kit MP6 - 01	1x Indexing device / 1x Bearing 6008 EE / 8x Bearing 6000 EE / 1x Bearing 6007 EE / 1x Upper coupling sleeve / 1x Lower coupling sleeve / 1x Grinding wheel support plate
MP8 ST473A01 GX200 engine (H56)	KEMP8GX2001A Maintenance kit MP8 - 1 year	2x Honda kit with oil/air filter/spark plug / 4x Air filter / 6x Fuel filter / 2x Elastic suspension / 2x Belt / 2x Pulley block / 1x Wiper seal / 1x Tappet / 4x Di diabolo tank cover
	KUMP8-01 Wear kit MP8	2x Pulley flange / 4x Adjusting washer / 6x Stud M6x28 / 6x Nylstop nut / 1x Fuel return nipple / 1x Bearing 6008 EE / 1x Indexing device / 1x Complete tank banjo / 1x Complete tank banjo / 2x Complete tank banjo
MP12 ST471A17 H04 engine (GX270)	KEMP12GX2706M Maintenance kit MP12 - 6 months - GX270 engine	1x Honda kit with oil/air filter/spark plug / 2x Air filter / 1x V-belt 13x11x800
	KEMP12GX2701A Maintenance kit MP12 - 1 year - GX270 engine	2x Pulley block / 2x Elastic arm suspension / 4x Tank diabolo plate / 1x Wiper seal / 1x Tappet / 2x MP12 maintenance kit - 6 months
	KUMP12-01 Wear kit MP12 - 01	1x Banjo tank complete / 4x Adjustment washer / 6x Stud M6X28 / 6x Nylstop nut / 1x Fuel return nipple / 1x Bearing 6008 EE / 2x Pulley flange / 1x Indexing device

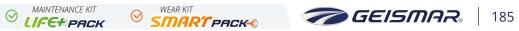






Machine	Kit number	Kit contents
MP23 ST290A01 H14 engine (GX200)	KEMP23GX2001A Maintenance kit MP23 - 1 year - GX200 engine	2x Honda kit with oil/air filter/spark plug / 1x Drive belt / 1x Tilt nut / 4x Silent block under electrical box / 4x Elastic suspension under engine / 1x Rubber handle / 2x Sealing cap / 2x Elastic suspension / 1x Elastic suspension / 2x Deflector / 8x Deflector ring
	KUMP23-01 Wear kit MP23 - 01	1x Launcher / 1x Geared motor belt / 12x Bearing Support roller / 1x Steering pinion / 1x Tension roller + bearing / 2x Tension roller + bearing / 1x Toothed sector / 2x Cylinder
MV3 ST280A07-A (H68 engine)	KEMV3GX2001A Maintenance kit MV3 - 1 year - GX200 engine	1x Honda kit with oil/air filter/spark plug / 1x Air filter / 1x Engine stop harness / 1x Fuel hose / 4x Suspension / 1x Fuel return nipple / 1x Banjo tank complete / 1x Banjo tank complete / 1x Banjo tank complete / 1x Fuel filter
	KUMV3-01 Wear kit MV3 - 01	1x Bellows / 1x Indexing device / 1x Bearing 6008 EE / 1x Bearing 6000 EE / 1x Bearing 6007 EE / 1x Elastic coupling element
BARRACUDA (Q100 engine)	KECUDA1A Maintenance kit Barracuda - 1 year - Q100 engine	2x Filter Cassette / 1x Belt / 1x Fuse
	KUCUDA-01 Wear kit Barracuda - 01	1x Wiper seal / 1x Bearing 6008 EE / 1x Indexing device / 2x Elastic suspension / 4x Pulley flange / 8x Wedge washer / 12x Stud M6x28 / 12x Nylstop nut







Machine	Kit number	Kit contents
> Rail drilling n	nachines	
PRZ N06669 (S24 engine)	KEPRZFS4101A Maintenance kit PRZ - 1 year - FS410 engine	2x Stihl kit with air filter / spark plug / strainer / 1x POLY v6 belt / 5x FHC 12x20 ZG screws (tool tightening screws) / 1x Gasket / 1x Gasket / 1x Coupler + Tap / 1x Coupler + Tap / 1x Coupler + Tap / 1x Control lever / 1x Cable + sheath / 2x Handle
	<i>KUPRZ-01</i> Wear kit PRZ - 01	2x Movable jaw / 2x Tension spring / 2x Spring / 2x Return spring / 1x Driving pulley / 2x Bearing 61800 EE / 1x Coupling nipple / 1x Coupling nipple / 1x Coupling nipple
PR2 GX35 N06573 (H54 engine)	KEPR2GX351A Maintenance kit PR2 - 1 year - GX35 engine	2x Honda kit with oil/air filter/spark plug / 2x Honda kit with oil/air filter/spark plug / 1x Honda kit with oil/air filter/spark plug / 1x POLY v6 belt / 5x FHC 12x20 ZG screws (tool tightening screws) / 1x Coupler + Tap / 1x Coupler + Tap / 1x Acceleration cable and sheath / 2x Handle / 1x Gasket / 1x Gasket / 1x Gasket / 1x Gasket
	KUPR2-01 Wear kit PR2 - 01	2x Movable jaw / 2x Tension spring / 2x Spring / 2x Return spring / 1x Driving pulley / 1x Clutch bell / 1x Bearing 61800 EE / 1x Coupling nipple / 1x Coupling nipple / 1x Coupling nipple
NARVAL ST151L01	KUNARVAL-01 Wear kit Narval - 01	1x Top handle / 1x Vise lever spring / 4x Lever support screw / 1x Drill fixing screw / 1x Tank coupler / 1x Tank tap / 1x Pack of tank seals / 1x Lubrication hose connector / 1x Lubrication hose



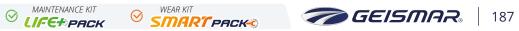




Machine	Kit number	Kit contents
> Coachscrewing &	bolting machines	
TC	KETCGX2001A Maintenance kit TC - 1 year - GX200 engine	2x Honda kit with oil/air filter/spark plug / 2x 8 mm metal plastic washer / 4x 17 mm metal plastic washer / 1x piston seal / 2x rubber handle
ST330A01 H31 engine (GX200)	KUTC-01 Wear kit TC - 01	3x Gasket 32x50x8 / 1x Motor stop type SM100 / 1x Mano + complete dial G / 1x Mano + complete dial D / 1x Control arm spring
TB2 ST302A07 (H04 engine)	KETB2GX2701A Maintenance kit TB2 - 1 year - GX270 engine	1x Honda kit with oil/air filter/spark plug / 1x Gearbox cover / 1x O-ring / 1x Engine stop
TS2	KETS2GX2701A Maintenance kit TS2 - 1 year - GX270 engine	2x Honda kit with oil/air filter/spark plug / 2x 8 mm metal/plastic washer / 6x 17 mm metal/plastic washer / 2x rubber handle / 1x housing cover / 1x O-ring
ST304A02 H04 engine (GX270)	KUTS2-01 Wear kit TS2 - 01	1x Motor stop type SM100 / 1x Female cone Glued gasket / 1x Male cone Glued gasket / 1x Return spring (limiter) / 2x Gasket 25x42x8 / 1x Gasket 22X40X8 / 1x Gasket 30x48x8 / 1x Gasket 15x30x7 / 1x Gasket 40x58x8 / 1x Gasket 32x50x8
TDH2 ST122A01 H56 engine (GX200)	KETDH2GX2001A Maintenance kit TDH2 - 1 year - GX200 engine	2x Honda kit with oil/air filter/spark plug / 4x Mixed base under engine / 1x Elastic stop / 1x Oil plug / 2x Copper washer D14 / 1x Filter cartridge / 1x Control handle / 4x Diabolo base under box
	KUTDH2-01 Wear kit TDH2 - 01	1x Launcher / 1x Motor stop type SM100 / 2x Locking handle / 2x Threaded rod / 2x Elastic pin / 1x O-ring / 1x Seal pocket for QCD / 2x Collar / 2x Collar







Machine	Kit number	Kit contents
TPAS ST310A01 H31 engine (GX200)	KETPASGX2001A Maintenance kit TPAS - 1 year - GX200 engine	2x Honda kit with oil/air filter/spark plug / 2x 8 mm metal-plastic washer / 4x 17 mm metal-plastic washer / 1x Elastic suspension (direction selection) / 2x Rubber handle / 1x Housing cap / 1x O-ring / 1x Reinforced action control handle
	KUTPAS-01 Wear kit TPAS - 01	1x Motor stop type SM100 / 1x Pump / 1x Belt / 1x Control rod / 1x Fork pawl / 1x Transmission shaft / 1x Clutch / 1x Clutch / 1x Dial / 1x Sealing ring 16x22x3 / 1x Sealing ring 22x35x7 / 1x Sealing ring 40x58x10 / 1x O-ring
MARLIN ST330L01 (Q100 engine)	KEMARLIN1A Maintenance kit MARLIN - 1 year	1x Filter Case / 2x 8» Metal-Plastic Washer / 4x 17» Metal-Plastic Washer / 1x Piston Gasket / 2x Rubber Handle
	KUMARLIN-01 Wear kit MARLIN	1x Mano complete Left / 1x Mano complete Right / 1x Control arm spring / 3x Gasket / 1x On/Off switch / 1x Inter. Diam 27 / 1x Filter cover
MIW3 N06371 S26 engine (MS311)	KEMIW3MS3111A Maintenance kit MIW3 - 1 year - MS311 engine	1x Stihl kit with air filter / spark plug / strainer / 1x Clutch / 1x Plug seal / 1x Coupling sleeve
	KUMIW3-01 Wear kit MIW3 - 01	1x Launcher / 1x Silencer protector / 1x Clutch bell / 1x Gasket 34x46x8 / 1x O-ring 45x7 / 1x Oil level indicator / 1x O-ring 124x3 / 1x Spring ring / 1x Needle bushing / 1x Damper washer and ball / 2x Damper washer and ball







Machine	Kit number	Kit contents
> Sleeper drilling r	nachines	
PTXL	KEPTXLBT1311A Maintenance kit PTXL - 1 year - BT311 engine	1x Stihl kit with air filter / spark plug / strainer / 1x Quick release system
N07029 S31 engine (BT131)	KUPTXL-01 Wear kit PTXL - 01	1x Launcher / 1x Clutch / 1x Clutch spring / 1x Cylinder
> Ballast tamping	machines	
VPS NEO	KEVPSGX501A	
VPS NEO	Maintenance kit VPS NEO - 1 year - GX50 engine	2x Air filter / 1x Tip (with screw and seal) / 2x Spark plug / 1x Transmission spring / 2x Lower bearing / 1x Tolerance ring / 1x Spring pin
VPS NEO ST160A06 H67 engine (GX50)	Maintenance kit VPS NEO - 1 year - GX50	
ST160A06	Maintenance kit VPS NEO - 1 year - GX50 engine KUVPS-01	/ 2x Lower bearing / 1x Tolerance ring / 1x Spring pin 1x Clutch / 1x Launcher / 4x Elastic Diam30x30 M8 / 2x Progressive conical stop / 1x Bellows + collar / 2x Bellows + collar / 1x Control handle / 1x Gas control /







Machine	Kit number	Kit contents		
> rail descaling machines				
DK3	KEDK3GX2001A Maintenance kit DK3 - 1 year - GX200 engine	2x Honda kit with oil/air filter/spark plug / 1x Air filter (17218-ZE1-821 Obsolete) / 1x Strap / 1x Throttle handle / 2x Spring plate / 1x Clamping flange / 1x Clamping flange / 1x Clamping flange		
N06267 (H56 engine)	KUDK3-01 Wear kit DK3 - 01	1x Belt housing cover / 1x Cylinder / 1x Handle / 1x Drive pulley / 1x Harness / 1x Pair of 2-lip pulleys Std Nylon / 1x NC contact handle		
> hydraulic jack				
CH65 N00310	KUCH65-01 Wear kit CH65 - 01	1x Valve box / 1x By Pass complete and mounted / 1x Seals / 1x Sea		
> Energy groups				
PHG.2 GX35 (H55 engine)	KEPHG21A Maintenance kit PHG.2 - 1 year - GX35 engine	1x Spark plug / 2x Air filter / 1x Fuel filter / 1x Clutch / 2x Oil		
	KUPHG2-01 Wear kit PHG2 - 01	1x Launcher / 2x Bearing 6003 EE / 1x Belt / 1x Handle / 1x Valve spring		







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