



Rail Industry Technologies & Services

**EQUIPMENT AND SERVICES FOR THE CONSTRUCTION AND
MAINTENANCE OF RAILWAY INFRASTRUCTURES**



2026 product range

GEISMAR®

#GETS IT DONE

› 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

› 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

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.



 Lithium-ion battery
 10 kg
(battery only)

Key features

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



Battery
charger



BATTERY-POWERED ABRASIVE RAIL SAW

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	(L _{aeq}) 95 dB(A) (L _{wa}) 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



Activion battery*
 21 Kg



GEISMAR®

* Battery and charger not included (Activion battery specifications p.18)

activion

Rail



BATTERY-POWERED RAIL DRILL

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 features

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	400 rpm
• Speed for twist drills	690 rpm
Dimensions in working order (L x W x H)	580 x 145 x 420 mm





BATTERY-POWERED RAIL PROFILE GRINDER

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



- Activion battery*
- 68 Kg (without battery)

activion

Battery



GEISMAR®

* Battery and charger not included (Activion battery specifications p.18)



ELECTRIC CONVERSION KIT FOR RAIL PROFILE GRINDERS

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



 Activion battery*
 68 kg ⁽¹⁾
(without battery)



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

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.



Activion battery*



98 Kg (without trolley and battery)



Key features

Motor	Activion (patented)
Power	6.3 kW 5.6 kW at 3,600 rpm
Autonomy with 1 battery	<ul style="list-style-type: none">Tightening: up to 540 cyclesUntightening: up to 900 cycles
Maximum torque	<ul style="list-style-type: none">Tightening: 60 daN.mUntightening: >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 and charger not included (Activion battery specifications p.18)



BATTERY-POWERED IMPACT WRENCH

Battery-powered impact wrench with reduced weight and low vibration level (4.2 m/s^2) for over 8 hours of work. The most powerful railway impact wrench on the market with three torque settings.

Key features

Maximum unscrewing torque	4,000 N.m
Adjustable screwing torques	200 / 550 / 3,000 N.m
Output square	1" – 25.4 mm
Autonomy on unjammed bolts and screws in concrete sleepers	<ul style="list-style-type: none">• 600 cycles (2 batteries 5 Ah)• 900 cycles (2 batteries 8 Ah)
Autonomy on jammed bolts and screws in wooden sleepers	<ul style="list-style-type: none">• 150 cycles (2 batteries 5 Ah)• 230 cycles (2 batteries 8 Ah)



- 2 batteries
5 or 8 Ah
- 18.3 kg
(without battery and socket)





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⁾	<ul style="list-style-type: none">Tightening: up to 540 cyclesUntightening: up to 900 cycles
Maximum torque ⁽¹⁾	<ul style="list-style-type: none">Tightening: 60 daN.mUntightening: >100 daN.m
Max. rotation speed ⁽¹⁾	200 rpm
Compatibles machines	<ul style="list-style-type: none">TC (Kit AGX N07882)TPAS (Kit AGX N07952)TPH 155 (Kit AGX KFK15500000100)TS2 / TB2 (Kit AGX N08075)





BATTERY-POWERED PORTABLE TAMPER

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



Activion
battery*



21.7 kg
(without battery)





BATTERY-POWERED RAIL LIFTING TROLLEY

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



Activion
battery*



≈ 260 kg
(without battery)

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

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



Activion battery*



≈ 48 kg
(without battery)





BATTERY-POWERED RAIL KNOCKER

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



Activion
battery*



≈ 260 kg
(without battery)





BATTERY-POWERED SINGLE RAIL KNOCKER

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



Activion
battery*
 ≈ 41 kg
(without battery)



* Battery and charger not included (Activion battery specifications p.18)



BATTERY-POWERED HYDRAULIC UNIT FOR RAIL TENSORS & WELD SHEARS

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



 Activion
battery*
 60 kg
(without battery)

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	<ul style="list-style-type: none">• Nautilus ESN3 / TH70 VL• Nautilus TH70 VL / TH70 VL• Nautilus TH70 VLA / TH70 VLA• Nautilus TH120 / TH120• Others on request



* Battery and charger not included (Activion battery specifications p.18)





CONVERTER

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).



Activion
battery*



13.8 kg (without cable)

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	<ul style="list-style-type: none">• 220 V IP54 socket• Multiple adapters supplied
Operating temperatures	-18 to 40°C
Dimensions (L x W x H)	660 x 336 x 174 mm





ACTIVION POWER LOGISTICS GROUP

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.

Key features

Battery transport function	Up to 7 batteries
Multi-charger function	
Number of batteries charged simultaneously	4 Activion batteries
Multi-charger input	220 V single-phase 16 A
Generator function	
Output	48 V Activion (with on-board batteries)
Dimensions (L x W x H)	835 x 445 x 460 mm



Activion battery*



32 kg (without battery and converter)



* Battery and charger not included (Activion battery specifications p.18)

activion® systems

BATTERY-POWERED SOLUTION



 HORNET
PORTABLE TECHNOLOGIES

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LIGHTWEIGHT ABRASIVE RAIL SAW

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



Stihl TS 800 engine
Petrol - 2-stroke



MTZ 350 ≈ 16.5 kg
MTZ 400 ≈ 17 kg



...



FUEL INJECTION RAIL SAW

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

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	≈ 7 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



Stihl TS 910i engine
Petrol - 2-stroke



Ø 350 mm ≈ 17.2 kg
Ø 400 mm ≈ 17.4 kg



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





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	<ul style="list-style-type: none">• 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 <i>(depends on the position of the supports on the rail)</i>





RAIL PROFILE GRINDER

Honda GX200
 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.

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)



Cyclonic filtration ensures a constant grinding power



SMART PACK
 Maintenance kit (p.183)

LIFE+PACK
 Wear kit (p.183)

GEISMAR®

METAL
HORNET

MP12-200

RAIL PROFILE GRINDER

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	<ul style="list-style-type: none">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 W x 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)

Honda GX200
Petrol - 4-stroke

60 kg



**METAL
HORNET****MP12-270**

RAIL PROFILE GRINDER

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

 Honda GX270
Petrol - 4-stroke

69 kg

**SMART PACK**
Maintenance kit (p.183)**LIFE+PACK**
Wear kit (p.183)

GEISMAR®



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





RAIL PROFILE GRINDER

Honda GX270
Petrol - 4-stroke
 ≈ 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.

Key features

Engine power	6.3 kW (8.4 hp) 3,600 rpm
Grinding wheel speed	4,000 rpm
Tilt range	± 90° from the vertical
Maximum grinding wheel diameter	150 mm
Dimensions (L x W x H)	1,600 x 640 x 880 mm



Available in 440 V three-phase electric version



SMART PACK
Maintenance kit (p.183)

LIFE+PACK
Wear kit (p.183)

GEISMAR®

METAL
HORNET®

MOD 12

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 (10.2 hp) 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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



SMART PACK
KEMC3GX2001A (1 year)

LIFE+PACK
KUMC3-01

GEISMAR

METAL
HORNET

MS9

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 (9 hp) 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	<ul style="list-style-type: none">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



SMART PACK
Maintenance kit (p.183)

LIFE+PACK
Wear kit (p.183)

GEISMAR



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



**DRILL
HORNET****PR2**

HOLLOW DRILL BITS RAIL DRILL

Honda GX50
Petrol - 4-stroke20 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 (2 hp)
Drilling stroke	85 mm
Max. drilling diameter	40 mm
Spindle speed	435 rpm
Spindle type	Weldon 19.05 mm
Max. rail hardness	<ul style="list-style-type: none">• 280 HB with standard drills• 310 HB with premium drills
Dimensions (L x W x H)	490 x 280 x 490 mm

**SMART PACK**
Maintenance kit (p.183)**LIFE+PACK**
Wear kit (p.183)**GEISMAR**



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 (5.8 hp) 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

**DRILL
HORNET****PR8**

RAIL DRILLING MACHINE

 Petrol ≈ 57 kg

Optimized and effortless drilling thanks to the three-speed 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**

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 (4.5 hp)
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



Petrol - 4-stroke or
Diesel



180 kg

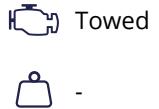


Switch to electric with an
equivalent battery-powered
Activion model (p.27)



WTC

SHORT RAIL TRANSPORT WAGONS



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





TLR

CWR TRANSPORT TRAIN

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





SH4 / SH8 / SH12

RAIL HEATING MACHINE

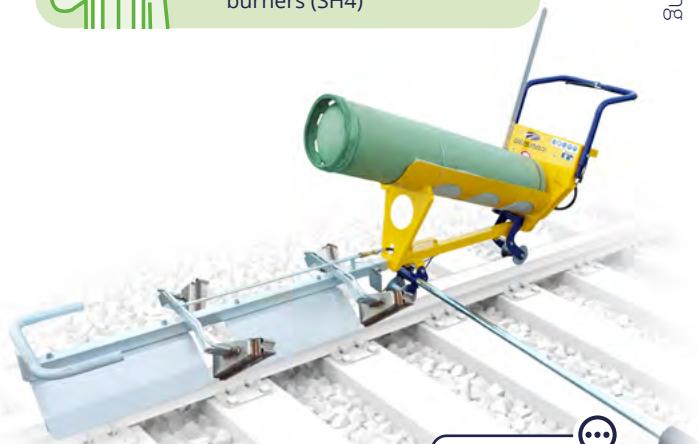
Ease of use thanks to the adjustable preheating ramp height in pressure and flow. The SH4 and SH8 trolleys are lightweight and fully dismountable for transport. The SH12 is mounted on a self-propelled and self-braking aluminum trolley, allowing for dual-line heating.

Key features

	SH4	SH8	SH12
Number of rail line(s)	1	2	2
Number of burners	4	8	12
Type of gas cylinder	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





RAIL DESCALING & SCRUBBING MACHINE



DER 672: Honda GX120
DER 674: Honda GX160V



DER 672: 29 kg
DER 674: 32 kg

Descale 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 lamellae wheel: Ø 165 mm Width: 50 mm	Steel wire brush Ø 120 mm
Engine type	Petrol - 4-stroke	
Engine power	2.6 kW (3.5 hp) 3,600 rpm	3.5 kW (4.8 hp) 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 (5.8 hp) 3,600 rpm
Wheel rotation speed	2,800 rpm
Dimensions (L x W x H)	1,030 x 495 x 805 mm
Options	<ul style="list-style-type: none">Machine with lighting and hour meterMachine adapted for 41GPU grooved rail with 3 abrasive wheels (for other profiles, order accessories)



SMART PACK
Maintenance kit (p.183)

LIFE+PACK
Wear kit (p.183)

GEISMAR



HYDRAULIC RAIL TENSOR

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.

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
Dimensions (L x W x H)	3,000 x 750 x 350 mm	3,250 x 980 x 570 mm



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



**TENS
HORNET**

TH70 / 120 STP

HYDRAULIC OBSTRUCTIONLESS RAIL TENSOR

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



Petrol



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





LIGHTWEIGHT HYDRAULIC RAIL TENSOR

The THR V2 hydraulic rail tensor releases the stresses of long welded rails, regardless of temperature. Lightweight, it operates in both pulling and pushing modes over long distances. Its narrow design is perfect for working in the presence of a third rail or slab track. Network Rail approved in the UK.

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



Petrol engine, electric motor or manual pump



284 kg
(without power unit)





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



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 (<i>others on request</i>)
Number of rollers	4
Power	5.5 hp 3,600 rpm
Knocking frequency (<i>per minute per rail</i>)	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)





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 (<i>standard version</i>)
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)

- Petrol engine, electric or manual pump
- ≈ 47 kg (head only, without knives)





LIGHTWEIGHT WELD SHEAR

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)

- Hydraulic unit
Honda GC160
Petrol - 4-stroke
- ≈ 38 kg (head only, without knives)





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	<ul style="list-style-type: none">Dimensions (L x W x H): 1,055 x 380 x 210 mmMass: 22 kg
Options	Storage box





VERTICAL & HORIZONTAL LIGHTWEIGHT HYDRAULIC RAIL AND SWITCHBLADE BENDER



Manual pump
or hydraulic unit



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 (≈ 75 t)

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

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 <i>(depending on rail hardness)</i>
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

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 50 and 70 kN

Lifting height 148 mm

Slewing stroke 50 mm





LIGHTWEIGHT TAMPING JACK

-  Manual
-  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)	<ul style="list-style-type: none">• 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 75 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

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 (5 t)
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
> 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.

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



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





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	<ul style="list-style-type: none">• 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)



SMART PACK
Maintenance kit (p.183)

LIFE+PACK
Wear kit (p.183)

GEISMAR



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 (3,600 rpm)
Socket rotation speed	<ul style="list-style-type: none">Low speed: 70 rpmHigh speed: 195 rpm
Maximum torque	<ul style="list-style-type: none">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	<ul style="list-style-type: none">• Low speed: 60 rpm• High speed: 160 rpm
Maximum torque	<ul style="list-style-type: none">• 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)



SMART PACK
Maintenance kit (p.183)

LIFE+PACK
Wear kit (p.183)

GEISMAR



DIGITAL COACHSCREWING MACHINE

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

Key features

Engine power	4.3 kW (5.8 hp)
Screwing torque	110 to 500 N.m
Maximum unscrewing torque	1,100 N.m
Performance	≈ 500 screwing/h
Noise level	• (L _{AEQ}) 84 dB(A) • (L _{WA}) 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



Honda GX200
Petrol - 4-stroke

106 kg
(without trolley)





PORTABLE CLIPPER FOR FASTCLIP

-  Manual
-  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

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 (5.8 hp) 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)

Honda GX200
Petrol - 4-stroke

≈ 135 kg





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 (<i>others on request</i>)
Dimensions (L x W x H)	2,050 x 600 x 1,040 mm (<i>may change according to type of engines and tools</i>)
Accessories	<ul style="list-style-type: none">• Extraction tools for dogspikes• Extraction tools for lockspikes





SLEEPERS

> DRILLING	86
> LAYING & HANDLING	89





SLEEPER DRILLING MACHINE

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 (1.9 hp) 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.

Key features

Power	6.3 kW (8.4 hp) 3,600 rpm
Drilling stroke	200 mm
Tool rotation speed	1,400 rpm
Max. auger diameter	33 mm
Auger holding chuck diameter	16 mm
Drilling time	2 to 3 seconds for a Ø 18 mm drill
Dimensions (L x W x H)	2,150 x 620 x 1,250 mm



Available with electric motor or Diesel engine





SUPER LIGHTWEIGHT SLEEPER DRILLING MACHINE

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 (5.8 hp) 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



Honda GX200
Petrol - 4-stroke



40 kg
(machine only)

**OST****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.

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



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







BALLAST

> TAMPING	92
> BRUSHING	96
> BALLAST REGULATOR	97





**TAMP
HORNET**
VPS NEO

**LIGHTWEIGHT
PORTABLE TAMPER**

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 (2 hp)
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

- Power generator
- 34 kg per unit

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



**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.

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

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

**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.

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



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





BRV

TRACK BRUSH TOOL FOR ROAD-RAIL EXCAVATOR

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.

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

Hydraulic with
road-rail excavator
or GEM55 unit
2,400 kg



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



**BPW**

BALLAST EQUALIZING WAGON

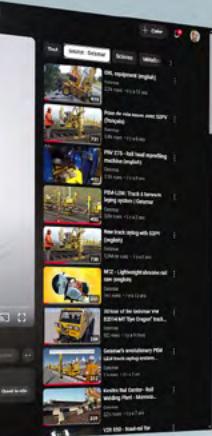
 Towed + power group, 18 kW
 68,300 kg

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	<ul style="list-style-type: none">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





OVERHEAD LINES

- > MAINTENANCE 100
- > ROLLING / UNROLLING 105





OPTIMA 100

SELF-PROPELLED OHL ACCESS UNIT

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



Diesel
3 cylinders, 31 kW



≈ 5,000 kg



OPTIMA 300

CATENARY MOTORIZED ROAD-RAIL ELEVATOR

Ergonomic road-rail vehicle allowing the loading of personnel and catenary equipment into the telescopic elevator from the ground and equipped with stabilizers for off-track work.

Key features

Track gauge	1,435 mm
Maximum cant	180 mm
Minimum curve radius	40 m
Maximum gradient	7 %
Telescopic elevator	<ul style="list-style-type: none"> • Max. height: 12.6 m • Max. offset: 7.2 m • Max. load: 265 kg
Double basket (lifting + telescopic)	<ul style="list-style-type: none"> • Max. height: 8.3 m • Max. offset: 3.3 m • Max. load: 300 kg (telescopic cradle)



Diesel
4 cylinders, 55 kW



≈ 12,000 kg





ACTIVION MODULAR MAINTENANCE VEHICLE

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®



- Battery
- Base + module:
≈ 5,800 kg





VMT / VMB CGR

VEHICLES FOR CATERNARY MAINTENANCE

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

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



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



* Range of characteristics given as an example and differs depending on the model of railcar.

**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 (<i>track gauge: 1,435 mm</i>)
Platform	<ul style="list-style-type: none">• Max. load: 1,500 kg• Max. height: 6.5 m
Cradle	<ul style="list-style-type: none">• Max. load: 500 kg• Max. height: 15.7 m• Max. lateral outreach: 7.9 m
Crane	<ul style="list-style-type: none">• Max. lifting capacity: 3,300 kg• Max. range: 10.3 m

 Diesel

W-E/D

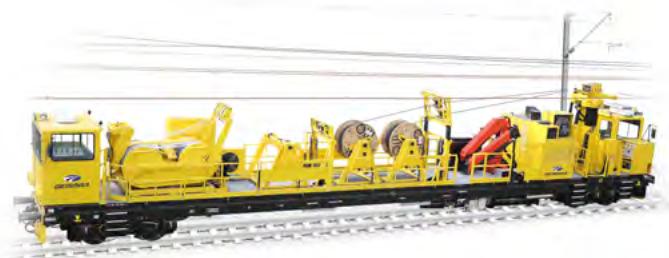
ROLLING/UNROLLING WAGON

 Diesel -

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

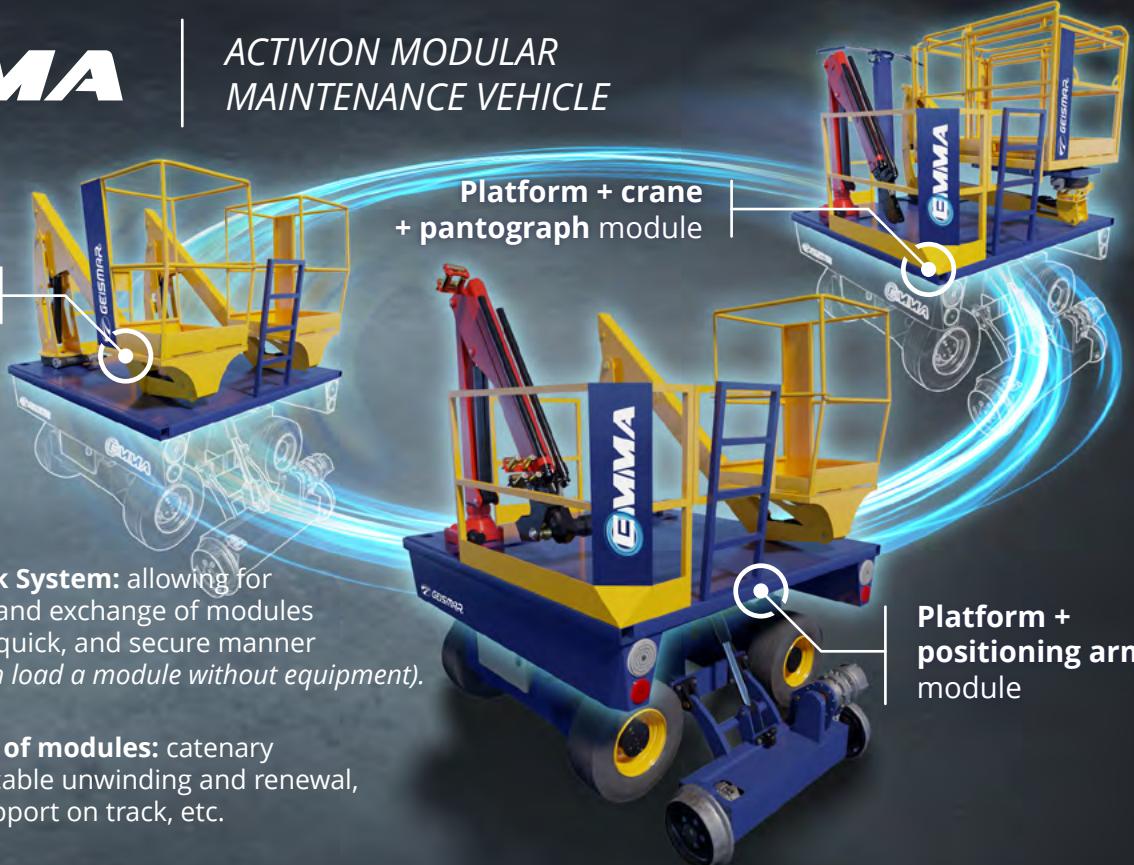
Double basket module

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 & TURNOOTS

- > HANDLING 108
- > 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 (990 kg) or 2,000 daN (2 t)
Type of rails	Vignole or grooved
Dimensions (L x W x H)	2,770 x 840 x 1,450 mm





LEVELING & SLEWING MACHINE

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 (9 hp)
Slewing stroke	100 mm (<i>LNR 529 only</i>)
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)



4-stroke Petrol or
Diesel



LNR 528: 780 kg
LNR 529: 950 kg



**PTH
350 / 500****HYDRAULIC GANTRIES FOR
TRACK LAYING AND RENEWAL**

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 (75 hp) to STEP V	100 kW (136 hp) 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 (<i>synchronized</i>)	



Diesel

PTH 350: 12 t per pair
PTH 500: 21 t per pair
(*without sleeper beam*)Available with chain or hydraulic
sleeper beam option



RAIL THREADER

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 (3,058 to 3,722) x 1,300 mm





TRACK LINER

- Diesel
- 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 column
- **CR-FP**: with pivoting column & motorized winch
- **CR-FPE**: with pivoting column, motorized winch & remote control
- **CR-A**: automatic

Models	
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

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

- Diesel
- 11.7 t





TRACK AND TURNOUT SOLUTIONS

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	<ul style="list-style-type: none">• PEM: 20,000 daN (20 t)• LEM: 20,000 daN (20 t)
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



The LEMs can also be used to transport concrete mixers, tippers, poles, or metallic bridges





TRACK & TURNOUTS LAYING SOLUTION

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



Diesel



PEM ≈ 4,750 kg
LEM ≈ 4,300 kg
LMC ≈ 13,400 kg

Key features

Lifting force	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 1 (system X-TRACK)• 2 (system X-TRACK²)
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 & TURNOOTS LAYING SOLUTION FOR TILTING WAGON

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.

Key features

Lifting force	20,000 daN (20 t)
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



Sound-proof
Diesel



11,000 kg



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





CATERPILLAR GANTRY FOR LAYING RAILS

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 (20 t)
Lifting stroke	2,380 mm
Slewing stroke	975 mm
Maximum feet opening	3,516 mm
Maximum speed while working	<ul style="list-style-type: none">Up to 4 km/h on caterpillarsUp to 15 km/h on rails (with wheel-rail option)
Remote control	Yes
Types of spreaders beam (optional)	<ul style="list-style-type: none">20 sleepers3 concrete slabs of 5 m18 m track panels



Diesel, 100 kW



22,000 kg



The model shown here has the 20-sleeper spacing option





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 % (<i>other on request</i>)
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





TLTING WAGON

Control panel designed to limit the dismantling of switches and crossings, thus allowing a quick preparation of the work site and reducing track off-line time.



Unload turnouts with PWP gantry cranes (p.118)



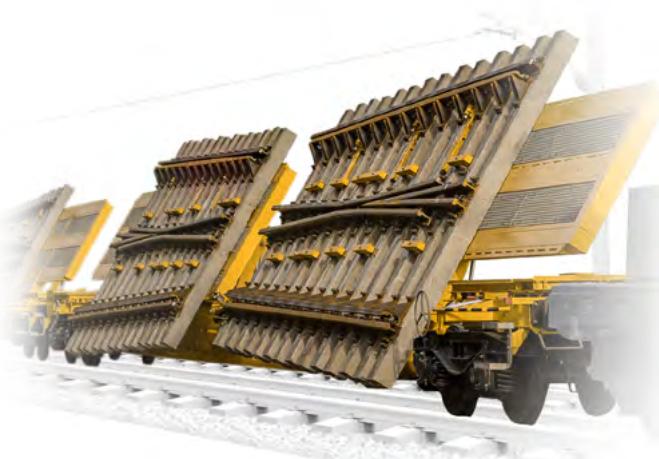
Thermal hydraulic unit 30 kW



36 t

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	<ul style="list-style-type: none">Length: 26.2 mWidth: 4.2 / 4.4 m
Integrated safety systems	<ul style="list-style-type: none">Clearance gauge controlEmergency platform lowering systemAutomatic platform blocking system



 DRAGON RAILCARS

ROLLING STOCK

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> TRACK & CLEARANCE MEASUREMENT	128
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> LOCOMOTIVES	134
> TROLLEYS & LORRIES	136



**PICKER
DRAGON****VMT 980 GR**

WORKSITE TRACK MOTORCAR

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.

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 %



Diesel
Up to 520 kW,
STEP IIIA to STEP V



≈ 35 t



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



**PICKER
DRAGON****VMB 1808 GR**

WORKSITE MOTORCAR WITH BOGIES FOR URBAN NETWORKS

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.

Key features

Maximum speed	80 km/h
Transmission	Hydrostatic
Track gauge	From 1,000 to 1,676 mm
Crane capacity	From 8 t/m
Useful load	6 t
Maximum axle load	11.5 t
Minimum curve radius	≈ 60 m at 20 km/h
Maximum gradient	≈ 25 %



Diesel
Up to 520 kW,
STEP IIIA to STEP V



≈ 40 t



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



EN14033-4

GEISMAR



VMT 980 CGR

CATENARY MAINTENANCE MOTORCAR

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.

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 %



Diesel
Up to 520 kW,
STEP IIIA to STEP V



≈ 36 t



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





VMB 2015 CGR

OHL MAINTENANCE TRACK MOTORCAR WITH BOGIES

High-performance vehicles allowing intervention at any point of the catenary, ensuring high-quality results. Each vehicle includes top-of-the-range specialised equipment to ensure that every job is carried out quickly and efficiently.

Key features

Maximum speed	100 km/h
Transmission	Hydrostatic + hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Cradle capacity	Up to 470 kg at 18.5 m high
Platform capacity	Up to 1,650 kg at 7 m high
Useful load	5 t
Minimum curve radius	100 m
Maximum gradient	≈ 30 ‰

Diesel
Up to 520 kW,
STEP IIIA to STEP V
 ≈ 78 t



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



EN14033-1, 2 & 3

GEISMAR

**VMT 980 MT**

TRACK MEASUREMENT AND CONTROL MOTORCAR

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

Key features

Maximum speed	100 km/h
Transmission	Hydrostatic + hydrodynamic
Track gauge	From 1,000 to 1,676 mm
Measurements (non-exhaustive list)	<ul style="list-style-type: none">• 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



Diesel
Up to 390 kW,
STEP IIIA to STEP V



≈ 35 t



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





VMB 1810 MT

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

 Diesel
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)	<ul style="list-style-type: none">• 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





VMB 2215 MT

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

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.



Diesel
Up to 520 kW,
STEP IIIA to STEP V
≈ 60 t

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)	<ul style="list-style-type: none">• 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





VIGILIS 100

LIGHTWEIGHT TRACK AND INFRASTRUCTURE INSPECTION VEHICLE

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 (<i>full tank</i>)
Dimensions (L x W x H)	2,715 x 1,650 x 1,000 mm
Options (<i>non-exhaustive list</i>)	<ul style="list-style-type: none">• On/off tracking device• Insulated wheels• 1t trailer• Road transport trailer

Honda GX200
Petrol - 4-stroke

445 kg



Available in battery-powered version





VIGILIS 200

INSPECTION VEHICLE

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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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



 Diesel
19 hp (14 kW)

 2,300 kg





VIGILIS 300

TRACK INSPECTION VEHICLE

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 (<i>others on request</i>)
Transmission	Hydrostatic
Tank capacity	80 l
Maximum speed	<ul style="list-style-type: none">• 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



Diesel
48 hp (36 kW)



2,490 kg





SHUNTING LOCOMOTIVE

 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	<ul style="list-style-type: none">Automatic couplingATP systemDevice for multiple units





SHUNTING LOCOMOTIVES

Diesel
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	<ul style="list-style-type: none">• VTB 1 000: 1,800 t (<i>on flat track</i>)• VTB 1 000 H: 1,600 t (<i>on flat track</i>)
Transmission	<ul style="list-style-type: none">• VTB 1 000: hydrodynamic• VTB 1 000 H: hydrostatic
Multiple units	2 x VTB 1 000 = traction performance doubled



The shunting locomotive presented here is the **VTB 1 000 H**





MA10 / TR10

TROLLEY / UNIVERSAL TROLLEY

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



The lorry presented here is the MA10



**CH1****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 (<i>others on request</i>)
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



**CL1****ALUMINIUM LIGHTWEIGHT TROLLEY**

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

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	<ul style="list-style-type: none">• Push bar with dead-man brake device• Push bar with dead-man brake bidirectional device



Hand-pushed



From 32 to 47 kg depending on model



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



**CAMD****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 (<i>others on request</i>)
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



**C2D****RESCUE TROLLEY**

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 (<i>others on request</i>)
Wheels	Ø 250 mm (<i>UIC profile</i>)
Railway vehicle wheel diameter	From 700 to 1,260 mm (<i>to be defined</i>)
Maximum hauling speed	25 km/h
Dimensions in working order (L x W x H)	1,770 x 1,300 x 260 mm



From 150 to 400 kg
according to needs





ROAD-RAIL TRUCKS & EXCAVATORS

- > TRACK WORKS 142
- > IN-TRACK WELDING 143
- > OHL WORKS 144
- > INFRASTRUCTURE INSPECTION 145
- > TRACK & CLEARANCE
MAINTENANCE 147
- > EXCAVATORS 148
- > ACCESSORIES FOR
ROAD-RAIL EXCAVATORS 150



**V2R U-940 GR****ROAD-RAIL VEHICLE
FOR HANDLING OF RAILWAY
EQUIPMENT**

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	<ul style="list-style-type: none">• 30 km/h on rail• 90 km/h on road
Railway configuration	<ul style="list-style-type: none">• Lorry/Bogie• Hydrostatic drive• Tyres 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





V2R U-1040 W

ROAD-RAIL FLASH-BUTT WELDING TRUCK

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).

Key features

Road carrier	Renault C 490 - P 8 x 4 Tridem
Cabin	Single - 1 + 1 persons
Maximum speed	<ul style="list-style-type: none"> • 25 km/h on rail • 90 km/h on road
Railway configuration	<ul style="list-style-type: none"> • Lorry/Bogie • Hydrostatic drive • Tyres off the rail
Welding head	<ul style="list-style-type: none"> • Welding type: flash welding • Rail 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



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



GVW ≈ 32 t



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



UIC 505-1 | EN 15746 | EN 15085 (option)

GEISMAR

**V2R U-840C PF****BI-MODE ROAD-RAIL
OVERHEAD CONTACT LINE
MAINTENANCE VEHICLE**Diesel / Biodiesel
or CNGGVW \approx 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.

Key features

Road carrier	Iveco S-Way 4 x 2
Cabin	Single - 1 + 2 persons
Maximum speed	<ul style="list-style-type: none">• 30 km/h on rail• 90 km/h on road
Railway configuration	<ul style="list-style-type: none">• Lorry/Bogie• Hydrostatic drive• Tyres off the rail
Working platform	4.32 x 2.10 m (9.1 m ²)
Dimensions (L x W x H)	8,577 x 2,950 x 3,340 mm

BI-MODE
- DIESEL/ELECTRIC
- CNG/ELECTRIC

**V2R U-300**

LIGHTWEIGHT UTILITY ROAD-RAIL VEHICLE

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 (<i>on rail</i>)
Maximum speed	<ul style="list-style-type: none">• 32 km/h on rail• 48 km/h on road
Railway configuration	<ul style="list-style-type: none">• Tyre drive + guiding axles• Tyres on rail
Loading in deck	<ul style="list-style-type: none">• 150 kg (<i>with 6 persons</i>)• 450 kg (<i>with 2 persons</i>)
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)



**INVINCIBLE
WIZARD****V2R U-530**

ROAD-RAIL VEHICLE FOR INSPECTION AND TRANSPORT OF LIGHT EQUIPMENT



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	<ul style="list-style-type: none">• 32 km/h on rail• 112 km/h on road
Railway configuration	<ul style="list-style-type: none">• Tyre drive + guiding axles• Tyres on rail
Trunk capacity	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 12 km/h sweeping• 25 km/h traveling
Railway configuration	<ul style="list-style-type: none">• Tyre drive + guiding axles• Tyres on rail
Capacity	<ul style="list-style-type: none">• Dumpster: 4,000 L• Water: 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

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	<ul style="list-style-type: none">• 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



Diesel
129 kW up to STEP V



≈ 21 t



Find the list of supported accessories (p.150)



KGT 280**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



Find the list of supported accessories (p.150)



Ballast | Tamping**MB2 TL**

DOUBLE-HEADED TAMPING
MODULE
(see p.94)

**MB8 AC**

TRACK AND TURNOUTS
TAMPING UNIT
(see p.95)

**NDO**

TRACK LEVELING SYSTEM

Ballast | Cleaning**BRV**

TRACK BRUSH
(see p.96)

**OBA**

BALLAST BRUSH

Ballast | Clearing / Equilizing

**ODB**

BALLAST UNDERCUTTER
BLADE

**OLR**

BALLAST REGULATOR
BLADE

**OLD**

BALLAST EQUILIZING
BLADE

**OST**

MODULAR SLEEPER
REPLACER
(see p.89)

**OBP 7**

BALLAST GRAB BUCKET

**OBP 9**

CLAMSHELL BUCKET

Track surroundings | Seasonal / Weed control



CAB 2
SNOW BLOWER



LAM
BRUSHWOOD CUTTER



ORD
BRUSHWOOD FLAIL

Track surroundings | Excavation / Handling



ODL
WEEDCUTTER



OTR
TRENCH EXCAVATOR UNIT



OPV
VERTICAL DRILL

Track surroundings | Excavation / Handling

**OBF**

FRONT BUCKET

**OFF**

FRONT FORK

**OEA**ELECTRO-MAGNET WITH OR
WITHOUT GENERATING SET

Rail | Handling

**OMR 5**FOUR-ROLLER RAIL
THIMBLE - 5T**OMR H**FOUR-ROLLER HYDRAULIC
RAIL THIMBLE - 2T**OMR 20**HYDRAULIC ROLLERS RAIL
THIMBLE FOR LWR - 20T

Rail | Handling (continued)

**PAR**

RAIL CHAIN BEAM

**PAR 11**

RAIL GRAB

**PAR 481**

RAIL HANDLING BEAM

**PER 495**TELESCOPIC RAIL
HANDLING BEAM**PRC 489**CURVED RAIL
HANDLING BEAM**PRR 488**ROTATING RAIL PANEL
HANDLING BEAM

Sleepers | Handling

**OFT**

FORK FOR WOODEN
SLEEPERS OR LOGS

**PA2T**

ROTATING SLEEPER GRAB

**PCT**

EXPENDABLE
MANUAL CHAIN BEAM

**PTV**

HYDRAULIC BEAM

**PTV 881**

HYDRAULIC VARIABLE
BI-BLOCK CONCRETE
SLEEPERS SPACING BEAM

**PTV 897-5**

HYDRAULIC VARIABLE
MONOBLOC CONCRETE
SLEEPERS SPACING BEAM

Earthwork | Excavation

**OGT 15**

V-LINE BUCKET

**OGC 16**

SWINGING BUCKET

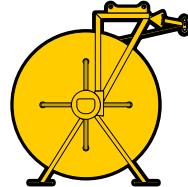
**OGC 17**

DITCH-CLEANING BUCKET

OHL | Installation

**OGR**

BACKHOE BUCKET

**MDE**

STRINGING / WINDING UNIT



MEASUREMENT & INSPECTION

- > TRACK GEOMETRY 158
- > RAIL GEOMETRY 165
- > CLEARANCE & STRUCTURE 167
- > TRACK & CLEARANCE 168





COMBINED UNIT FOR TRACK GAUGE AND LEVEL MEASUREMENT

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

-  Mechanical
-  2.4 kg (according to gauge)





COMBINED TRACK AND TURNOUTS GAUGE FOR CANT AND GAUGE MEASUREMENT

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



Mechanical

2.5 kg (according to gauge)





DIGITAL TRACK GAUGE FOR TRACK AND SWITCH GEOMETRY MEASUREMENT

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.



 Battery
Autonomy: 200 h
(without backlighting)
 3 kg

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

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.



- Battery Autonomy > 10 h
- TOPAZ 250: 22 kg
TOPAZ 500: 26 kg

Key features

Length of the measuring arm	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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

**GEISMAR**

**emerald****TOWED TRACK RECORDING UNIT**

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.



Battery
Autonomy: 8 h



≈ 63 kg

BATTERY
TECHNOLOGY**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 (<i>depending on speed & track</i>)
Contact point	14 mm below rail head
Operating temperature	5°C to +50°C
Track gauge	Available for all gauges

**opal mini****LASER ALIGNMENT
AND LEVELING SYSTEM**

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

- Battery Autonomy: 100 h
- Laser source: 2 kg
- Target: 1 kg

**GEISMAR**



rectirail dl2®

PORTABLE ELECTRONIC STRAIGHTNESS MEASURER

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





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	<ul style="list-style-type: none">• 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





VMT / VMB MT

TRACK MEASUREMENT AND CONTROL MOTORCAR

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.

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)	<ul style="list-style-type: none">• Track geometry, rail geometry, rail corrugation measurement, running quality, obstacles profile 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



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





STATIONARY EQUIPMENT

- > CUTTING 170
- > CUTTING & DRILLING 171
- > BRUSHING 172
- > WELDING 173
- > STRAIGHTENING 174
- > GRINDING 177





RAIL CARBIDE SAWING MACHINE

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	<ul style="list-style-type: none">Average cycle time: < 30 sCutting squareness: < 0.5 mmStandard blade diameter: 710 mmBlade stroke: 350 mmRotational speed: 70 rpmFeed speed: up to 600 mm/min
Clamping force	<ul style="list-style-type: none">Vertical rail clamping: 4 x 70 kNHorizontal 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



Total power:
100 kW

11,000 kg



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

Rail type Vignole or grooved (up to 75 kg/m)

- 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)

Sawing and drilling performances

- Vertical rail clamping: 4 x 70 kN
- Horizontal rail clamping: 2 x 35 kN (inside) / 2 x 90 kN (outside)

Clamping force Dimensions (L x W x H)

5,400 x 2,800 x 2,200 mm





AUTOMATIC RAIL END BRUSHING MACHINE

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	<ul style="list-style-type: none">Max. rotational speed: 2,900 rpmUpper brush power: 11 kWLower brush power: 22 kWAverage cycle time: < 2 min 30Brushing length: up to 420 mmBrush diameter: 180 to 250 mmUpper brush width: 120 mmLower brush width: 180 mm
Dust suction	<ul style="list-style-type: none">Suction air flow: 4,000 m³/hFan power: 7.5 kW
Dimensions (L x W x H)	4,000 x 1,400 x 2,000 mm



Rated power:
50 kW



5,700 kg





FLASH-BUTT RAIL WELDING MACHINE

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.

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



- Rated power: from 150 to 240 kVA*
- Up to 17,000 kg*

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



* depending on welding head



RAIL WELD TESTING PRESS

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.

Key features

Rail type	Vignole (up to 75 kg/m)
Minimum length of samples to be tested	1,200 mm
Pressing performances	<ul style="list-style-type: none">• 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



Rated power:
10 kW



4,000 kg



Machine suitable for use and transport in a container





PHRML 250/120-15

HYDRAULIC 4-WAY MOBILE STRAIGHTENING PRESS WITH LASER MEASURING DEVICE

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 (<i>up to 75 kg/m</i>)
Pressing performances	<ul style="list-style-type: none"> Vertical force: 2,500 kN (250 t) Horizontal force: 1,200 kN (120 t)
Measuring performances	<ul style="list-style-type: none"> Number of laser sensors: 3 Length 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



Also available in a version for straightening rail ends – finishing in rail rolling mills: PHRL 250/120-15



GEISMAR

**PRESS
TITAN****PHRL 350/200-30****HYDRAULIC 4-WAY
STRAIGHTENING PRESS
WITH LASER MEASURING DEVICE**

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	<ul style="list-style-type: none">Vertical force: 3,500 kN (350 t)Horizontal force: 2,000 kN (200 t)
Measuring performances	<ul style="list-style-type: none">Number of laser sensors: 3Length 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).

Key features

Rail type	Vignole (up to 75 kg/m)
Grinding performances	<ul style="list-style-type: none"> - Max. rotational speed: 3,600 rpm - Grinding stones diameter: 200 mm - Max. length: up to 150 mm - Average cycle time: < 3 min 20 - Vertical motor power: 7.5 kW - Horizontal motor power: 2.2 kW
Dust suction	<ul style="list-style-type: none"> - Suction air flow: 4,000 m³/h - Fan power: 7.5 kW
Dimensions (L x W x H)	2,200 x 1,500 x 2,000 mm



Machine suitable for use and transport in a container





AUTOMATIC RAIL WELD GRINDING MACHINE

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.

Key features

Rail type	Vignole up to 75 kg/m
Grinding performances	<ul style="list-style-type: none">Max. rotational speed: 5,400 rpmGrinding stones diameter: 150 mmGrinding stroke: ± 500 mmAutomated cycle: > 4 minMotor power: 10 kW
Dust suction	<ul style="list-style-type: none">Suction air flow: 3,000 m³/hFan 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



Machine suitable for use and transport in a container




MAS 150 E

AUTOMATIC RAIL WELD GRINDING MACHINE WITH LASER MEASURING SYSTEM

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

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.



Three-phase electric



4,000 kg

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 m • Grooved 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

SMART PACK

**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

LIFE+PACK

**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 machines		
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
	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
	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	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 machines		
MP6 ST680A04 / ST680A03 (H68 engine)	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
	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 Toothing 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 machines		
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
	KUPRZ-01 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 Coupler + Tap / 1x Acceleration cable and sheath / 2x Handle / 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 connector / 1x Lubrication hose

Machine	Kit number	Kit contents
> Coachscrewing & bolting machines		
TC ST330A01 H31 engine (GX200)	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
	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
	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
TS2 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
	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
TDH2 ST122A01 H56 engine (GX200)	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



Maintenance Kit
LIFE+PACK



Wear Kit
SMARTPACK



GEISMAR

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 machines		
PTXL N07029 S31 engine (BT131)	KEPTXLBT1311A Maintenance kit PTXL - 1 year - BT311 engine	1x Stihl kit with air filter / spark plug / strainer / 1x Quick release system
	KUPTXL-01 Wear kit PTXL - 01	1x Launcher / 1x Clutch / 1x Clutch spring / 1x Cylinder
> Ballast tamping machines		
VPS NEO ST160A06 H67 engine (GX50)	KEVPSGX501A 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
	KUVPS-01 Wear kit VPS NEO- 01	1x Clutch / 1x Launcher / 4x Elastic Diam30x30 M8 / 2x Progressive conical stop / 1x Bellows + collar / 2x Bellows + collar / 1x Control handle / 1x Gas control / 1x Protection sleeve
MORAY N07224	KEMORAY1A Maintenance kit MORAY - 1 year	1x Fan filter / 1x Tip + screws / 1x Coupling kit (spring ring hub etc.) / 2x Lower bearing / 1x Spring pin
	KUMORAY-01 Wear kit MORAY	1x Bellows + collar / 2x Bellows + collar / 4x Elastic studs / 4x Elastic studs / 6x Elastic studs / 2x Progressive stops / 1x Protective sleeve / 2x Stud support / 1x Progressive stop support

Machine	Kit number	Kit contents
> rail descaling machines		
DK3 N06267 (H56 engine)	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
	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 Centring pin / 1x Pump piston wiper / 1x Delivery spring / 3x Pins / 3x Pins / 3x Pins / 1x Washers / 1x Washers
> 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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