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Battery-powered range







A comprehensive range of electric solutions, from rolling stock to portable equipment

THE SUSTAINABLE WAY TO RAIL





Portable equipment

Handling equipment

Shunting vehicles

Octivion[®] systems

Road-rail vehicles

Track motor cars

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BATTERY-POWERED ABRASIVE RAIL SAW





- o Efficient rail cutting thanks to the high battery power
- Gas emissions non-existent
- Integrated electronic safety
- $\,\circ\,$ Innovative turnaround rail vise allowing to safely cut on both sides without dismounting the machine
- Easier to use and maintain
- Similar work gesture to thermic saws

Specifications	
Start	Immediate start with On/Off button
Power maxi	9.5 hp (7 kW)
Cutting time	75-90 s
Mass	46.5 lbs (21 kg)
Sound level	(Laeq) 95 dB(A) (Lwa) 109 dB(A)
Number of cuts with full battery	6 to 8 cuts according to conditions
Dimensions (L x W x H)	38.9 x 13.1 x 17.1 in. (990 x 333 x 435 mm)







- o Battery operated stand-alone rail drilling machine
- Easily transportable due to its low weight of 16.4 kg
- $\,\circ\,$ Quick and tool-free installation of Weldon's classic drills with Click and go system
- o 2 rotational speeds suitable for drill bits and twist drills
- Drilling up to 40 mm diameter

Specifications

Maximum drilling diameter	1.58 in. (40 mm)
Drilling time	Between 12s and 60s depending on diameter
Max rail hardness standard drills	270 HB (standard drills) 325 HB (premium drills)
Battery capacity	216 Wh
Autonomy	≈ 28 holes of Ø24 mm with one battery
Rotation speeds: - Speed for drill bits - Speed for twist drills	400 rpm 690 rpm
Dimensions in running order (L x W x H)	22.8 x 5.7 x 16.5 in. (580 x 145 x 420 mm)
Mass in working order with battery	36 lbs (16.4 kg)







- Driven by a striking mechanism developing up to 4,000 N.m when untightening, the Mantis is simply the most powerful battery-powered railway impact wrench on the market
- $\odot\,$ Thanks to its proportional throttle, power is delivered precisely and controlled directly by the handle
- Designed for intensive use, the Mantis is built on a patented technology including a shock-absorbing chassis that allows a full day of continuous work
- O Activion electric technology for greater ease of use, even in confined or restricted spaces
- Its innovative articulated arm incorporating the main control allows operations to be carried out from a standing position and easy positioning on coachscrews and fishplate bolts
- The rotation direction reversal control featuring a three-position torque limiter is easily accessible whatever the position of the machine, and allows total control of the machine's power

Specifications	
Maximum unscrewing torque	4,000 N.m
Adjustable screwing torques	250 / 550 / 3,000 N.m
Output square	1″ – 25,4 mm
Tension	36 V (2 x 18 V)
Number of batteries in use	2
Battery capacity	180 Wh (2 x 5 Ah) - 288 Wh (2 x 8 Ah)
Screwing autonomy with torque limiter	288 cycles (2 x 5 Ah) - 450 cycles (2 x 8 Ah)
Unscrewing autonomy at maximum torque	120 cycles (2 x 5 Ah) - 190 cycles (2 x 8 Ah)
Charging time	≈ 2 h
Rotation speeds	500 / 540 / 890 rpm
Hand-arm vibration level	Vertical use 2,6 m/s2 Horizontal use 4,2 m/s2
Noise level	Lp = 94 dB(A) - Lw = 105 dB(A)
Mass without battery and socket	40.35 lbs (18.3 kg)
Mass in working order	45.2 lbs (20.5 kg) with two 5 Ah batteries 47 lbs (21.3 kg) with two 8 Ah batteries

Contact us for any additional information or demonstration



BATTERY-POWERED PORTABLE TAMPER

Ergonomic backpack handling system (option)

MORAY





- $\,\circ\,$ Optimal track tamping thanks to the constant vibrations frequency in the ballast
- Engine noise eliminated
- Gas emissions non-existent
- Enhanced performance
- Easier to use and maintain
- o Similar work gesture to thermic tampers

Specifications		
Start	Immediate start with On/Off button	
Maximum tamping power	3.8 kW	
Vibration frequency	92 Hz	
Mass	47.8 lbs (21.7 kg)	
Sound level	(Laeq) 92 dB(A) (Lwa) 102 dB(A)	
Vibration level	4.6 ms- ²	
Tamping capacity with full battery	2h according to conditions	
Dimensions (L x W x H)	20.6 x 15.3 x 45.3 in. (525 x 390 x 1,090 mm)	



BATTERY-POWERED COACHSCREWING MACHINE







- A battery-powered coachscrewing machine with reliable and site-proven mechanics
- Accurate and high-performance tightening
- \circ 2 rotation speeds
- \circ Easy to use for operators
- 1 to 5 batteries can be carried on the trolley
- Human-Machine Interface (HMI) displaying remaining battery charge and air filter condition

Specifications		
Power	6.3 kW	
Number of batteries transportable	Up to 5 batteries	
Engine	Activion (patented)	
Autonomy of 1 Marlin with 1 battery: • <i>Tightening</i> • <i>Untightening</i>	Up to 540 cycles Up to 900 cycles	
Example of worksite with 4 Marlin with 5 batteries each:<i>Tightening</i><i>Untightening</i>	Up to 5,250 ft. (1,600 m) Up to 8,860 ft. (2,700 m)	
Mass without trolley Mass of trolley without batteries	205 lbs (93 kg) ≈ 77 lbs (35 kg)	
Dimension in working order (L x W x H)	80 x 20 x 37 in. (2,030 x 500 x 950 mm)	
Maximum tightening torque	60 daN.m	
Maximum untightening torque	>100 daN.m	
Max. rotation speed	200 rpm	

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ELECTRIC PORTABLE EQUIPMENT CONVERSION KIT FOR **BOLT HORNET - TC**





- Electric drive retrofit for petrol-powered Bolt Hornet (TC-type) originally equipped with a Honda GX160 or GX200 engine
- Easy fit, no programming needed
- Human-Machine Interface (HMI) displaying remaining battery charge and air filter condition

Specifications	
Power	6.3 kW
Autonomy with 1 battery: • <i>Tightening</i> • <i>Untightening</i>	Up to 540 cycles Up to 900 cycles
Maximum tightening torque	60 daN.m
Maximum untightening torque	>100 daN.m
Max. rotation speed	200 rpm
Dimensions (L x W x H)	80 x 20 x 37 in. (2,030 x 500 x 950 mm)
Mass of the AGX <i>(engine only)</i> Mass of the machine with AGX <i>(without battery)</i>	40 lbs (18 kg) About 216 lbs (98 kg)



BATTERY-POWERED RAIL PROFILE GRINDER





- Precise grinding after rail welding (or other application requiring reprofiling)
- Easy to use with an exceptional grinding quality
- Optimized work cycles thanks to the high power output
- Polyvalent tool adaptable to a large number of rails (flat-bottom rails, grooved rails, bridge crane rails)
- $\,\circ\,$ Human-Machine Interface (HMI) displaying $\,$ remaining battery charge and air filter condition

Specifications	
Engine	Activion (patented)
Autonomy (continuous grinding)	20 min
Power	6.3 kW
Mass (without battery)	150 lbs (68 kg)
Grinding angle (on each side of the rail)	-15° to +90°
Dimensions (L x W x H)	44 x 30 x 35 in. (1,120 x 770 x 900 mm)



ELECTRIC PORTABLE EQUIPMENT CONVERSION KIT FOR **METAL HORNET - MP12**





- Electric drive retrofit for all petrol-powered Metal Hornet (MP12-type)
- Easy fit, no programming needed
- Human-Machine Interface (HMI) displaying remaining battery charge and air filter condition

Specifications	
Power	6.3 kW
Autonomy with 1 battery	20 min continuous grinding
Tilting range on both sides	From -15° to +90°
Dimensions (L x W x H)	44 x 30 x 31.5 in. (1,120 x 760 x 800 mm)
Mass of the AGX <i>(engine only)</i> Mass of the machine with AGX <i>(without battery)</i>	40 lbs (18 kg) About 163 lbs (74 kg)



BATTERY-POWERED HYDRAULIC UNIT





- Compact and powerful, the Nautilus battery-powered hydraulic unit offers a decarbonated solution for rail destressing operations
- Equipped with a dual output, it can feed one rail tensor and one thermite weld shearing machine, or two tensors to work on two lines of rails simultaneously
- Extremely quiet thanks to its battery-powered technology, it can be used on all destressing operation sites, including urban areas and confined spaces
- o Brushless electric motor for lighter weight, longer life and reliability
- Equipped with speed control of hydraulic flow for greater precision and ease of use

Specifications		
Power	1,500 W	
Motor	Brushless	
Number of machines that can be connected	2 simultaneously	
Hydraulic pressure	From 325 to 700 bars depending on configuration*	
Dimensions (L x W x H)	33 x 18 x 18 in. (835 x 445 x 460 mm)	
Mass (without battery)	132 lbs (60 kg)	
*Configuration: Nautilus ESN3 / TH70 VL Nautilus TH70 VL / TH70 VL Nautilus TH70 VLA / TH70 VLA Nautilus TH120 / TH120		
Other configurations on request		







- Rail lifting for base plate replacement or when rollers are positioned for destressing operations
- Ergonomic design for easy on-tracking
- Gas emissions non-existent
- $\,\circ\,$ Easier to use and maintain
- Similar work gesture to thermic trolleys

Specifications	
Hydroelectric power plant	0,25 cc / 48 V
Power	800 W
Autonomy with 1 battery	1,000 cycles: 1 cycle = <i>tightening</i> , lifting, releasing, <i>untightening</i>
Times for 1 cycle	6 s
Lifting stroke	3 in. (70 mm)
Lifting power	1,300 daN (1.3 tons)
Type of rails	Flat-bottom
Dimensions (L x W x H)	36 x 24 x 32 in. (910 x 600 x 820 mm)
Emergency hand pump	1
Number of clamps per rail	1
Mass (without battery or accessories)	≈ 106 lbs (48 kg)

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BATTERY-POWERED RAIL LIFTING TROLLEY





- Rail lifting for base plate replacement or when rollers are positioned for destressing operations
- Ergonomic design for easy on-tracking
- Machine stops thanks to its safe braking system mounted on the handle
- Gas emissions non-existent
- Easier to use and maintain
- o Similar work gesture to thermic trolleys

Specifications		
Engine	Activion (patented)	
Power	6.3 kW	
Lifting stroke	12 in. (300 mm)	
Clamp cylinder stroke	4 in. (100 mm)	
Lifting power	5,500 daN (5.5 tons)	
Type of rails	Flat-bottom	
Dimensions (L x W x H)	55 x 37 x 35 in. (1,400 x 950 x 900 mm)	
Number of clamps per rail	1	
Mass (without battery or accessories)	≈ 573 lbs (260 kg)	



BATTERY-POWERED SINGLE RAIL KNOCKER



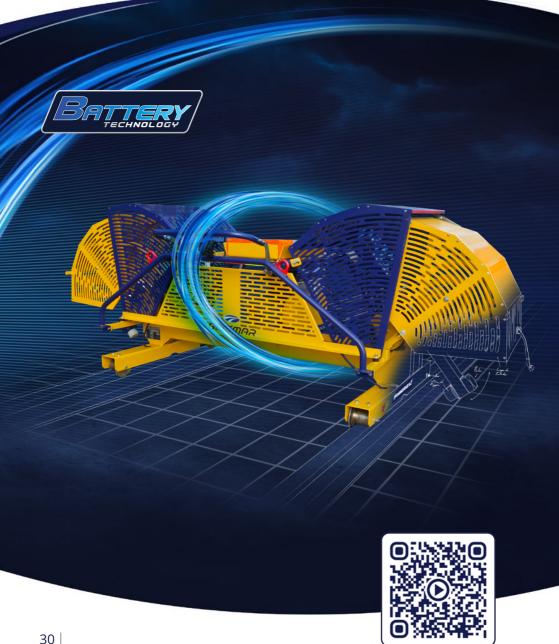


- o Rail destressing thanks to double hammers
- Great track mobility thanks to its lightweight chassis
- Hammer heads made of synthetic materials, preserving the rail surface
- $\,\circ\,$ Reduced vibration level for longer use time
- $\,\circ\,$ Easier to use and maintain
- o Similar work gesture to thermic knockers

Specifications		
Engine	48 V	
Power	220 W	
Knocking frequency (per rail)	53 knocks/min	
Autonomy with 1 battery	≈ 6 h	
Number of rollers	2	
Number of hammers	2	
Dimensions (L x W x H)	38 x 30 x 35 in. (950 x 760 x 850 mm)	
Mass (without battery)	≈ 90.4 lbs (41 kg)	



BATTERY-POWERED RAIL KNOCKER





- Rail destressing thanks to double hammers
- o Great track mobility thanks to its lightweight chassis
- $\circ\,$ Hammer heads made of synthetic materials, preserving the rail surface
- \circ Safety for operators with a protective metallic cage and braking system
- Reduced vibration level for longer use time
- Easier to use and maintain
- Similar work gesture to thermic knockers

Specifications

Engine	Activion (patented)
Power	6.3 kW
Knocking frequency (per rail)	48 knocks/min
Number of rollers	4
Number of double hammers	2
Dimensions (L x W x H)	98 x 39 x 39 in. (2,500 x 1,000 x 1,000 mm)
Mass (without battery)	≈ 573 lbs (260 kg)



BATTERY-POWERED WORKSITE PROJECTOR

Storage box equipped with an electrical supply





- $\circ\,$ Tripod with adjustable height to guaranty stability on any terrain
- Unbreakable polycarbonate tube
- o LED lamps for glare-free lighting and long life
- \circ Magnetic lamp base for easy positioning on other supports

Specifications		
Number of lights that can be connected in series	Up to 5 per battery	
Illumination range	131 to 164 ft. (40 to 50 m)	
Illuminance	250 lux at 3.3 ft. (1 m)	
Autonomy (for 5 lamps simultaneously)	6h continuously	
Dimensions (folded) (L x W x H)	6.7 x 6.7 x 39.4 in. (170 x 170 x 1,200 mm)	
Mass (light & tripod)	17.6 lbs (8 kg)	







- With CUBICUS AC, take advantage of the long life of the Activion battery on your 220 V equipment or hand-held power tools (up to 3,200W)
- $\,\circ\,$ With CUBICUS DC, connect your Activion 48V machines to your 400V three-phase network

	Specifications	
	CUBICUS AC N08070	CUBICUS DC STE77000Q
Input	48 V DC	400 V three-phase
Output	220 to 240 V AC Single-phase	48 V DC
Output power	Max 3,200 W	7,200 W
Dimensions (L x W x H)	26 x 13.2 x 6.8 in. (660 x 336 x 174 mm)	27.2 x 10.4 x 6.8 in. (690 x 265 x 174 mm)
Mass without cables	30 lbs (13.8 kg)	41.9 lbs (19 kg)
Connectivity Input	Activion	3-pole + earth 32 A
Connectivity Output	 220 V IP54 socket Multiple Adapters supplied 	Activion
Operating temperatures	-0.4 to 104 °F (-18 to 40°C)	-0.4 to 122°F (-18 to 50°C)
Colour	Yellow I	RAL 1004







- o The ideal solution to facilitate battery logistics on site
- Carries up to 7 high-capacity Activion[®] batteries
- Emission-free generator function: 48 V Activion[®] output or 220 to 240 V single-phase (up to 3,200 W) to power your equipment
- Multi-charger function for recharging up to 4 Activion[®] high-capacity batteries and 2 Narval/Mantis batteries
- The modular solution that adapts to your on-site needs and equipment, for easy transport and recharging

Specifications		
Battery transport function	Up to 7 batteries	
Multi-charger function Number of batteries charged at the same time	4 Activion batteries	
Multi-loader input	220 V single-phase 16 A	
Generator function Outputs	48 V Activion (with on-board batteries*)	
Mass without batteries	70.5 lbs (32 kg)	
Dimensions (L x W x H)	29 x 31 x 28.5 in. (738 x 787 x 725 mm)	

*not supplied

Contact us for any additional information or demonstration 37

BATTERY BACKPACK FOR TRACK MAINTENANCE

Your compact, comfortable and smart work companion





- o Backpack battery providing full autonomy and mobility
- One multi-purpose battery for most of portable equipment
- Ideal for confined work environments: tunnels, metros and underground areas
- Adapted to urban works due to reduced sound level
- Battery certified to UN 38.3 transport standard

Specifications

Embedded energy	1,404 Wh
Voltage	46.8 V
Battery capacity	30 Ah
Mass (without carrying system)	21.16 lbs (9.6 kg)
 Operating temperature Storage temperature Charging temperature 	-4 to 104 °F (-20 to +40 °C) -4 to 140 °F (-20 to +60 °C) 32 to 122 °F (0 to +50 °C)
Charging time	2h30





Geismar supports you throughout the life of your machines and projects



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