



GEISMAR®

Electrically-powered range

activion®
systems



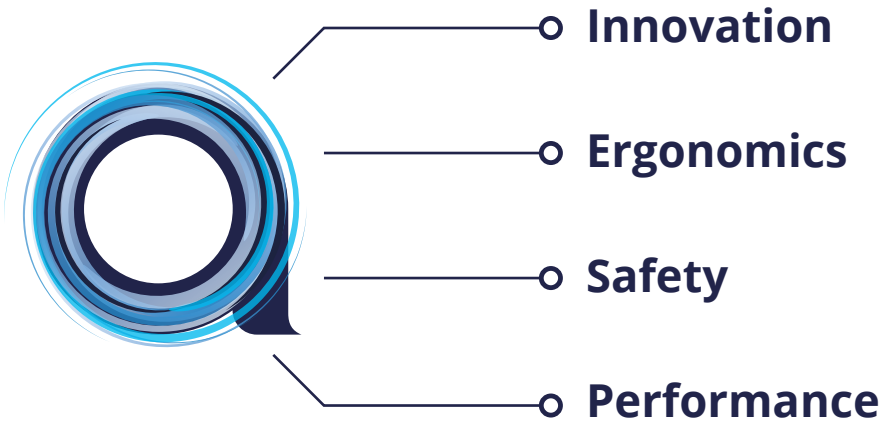


activion[®]

systems

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

THE SUSTAINABLE WAY TO RAIL



Portable equipment



Handling equipment



Shunting vehicles



activion[®]

systems

Road-rail vehicles



Track motor cars



8 | **NARVAL**
Rail drilling machine*



6 | **SHARK**
Abrasive rail saw



10 | **MORAY**
Portable tamper



NAUTILUS
Hydraulic unit



22 | **PIRANHA**
Rail weld shear



20 | **KRAKEN**
Rail tensor

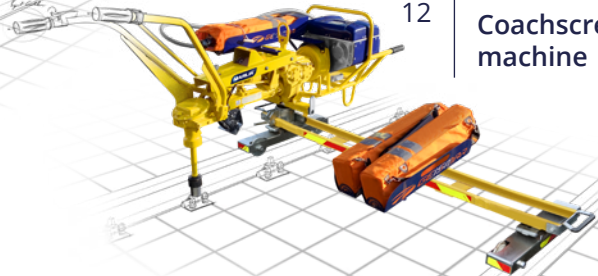




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BARRACUDA

Rail profile grinder



12

MARLIN

Coachscrewing machine

BATTERY
TECHNOLOGY

24

CRAB

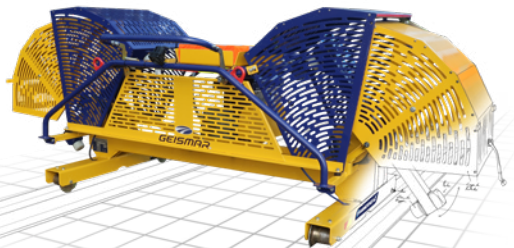
Rail lifting trolley



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NOCTURNA

Worksite projector



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HAMMERHEAD

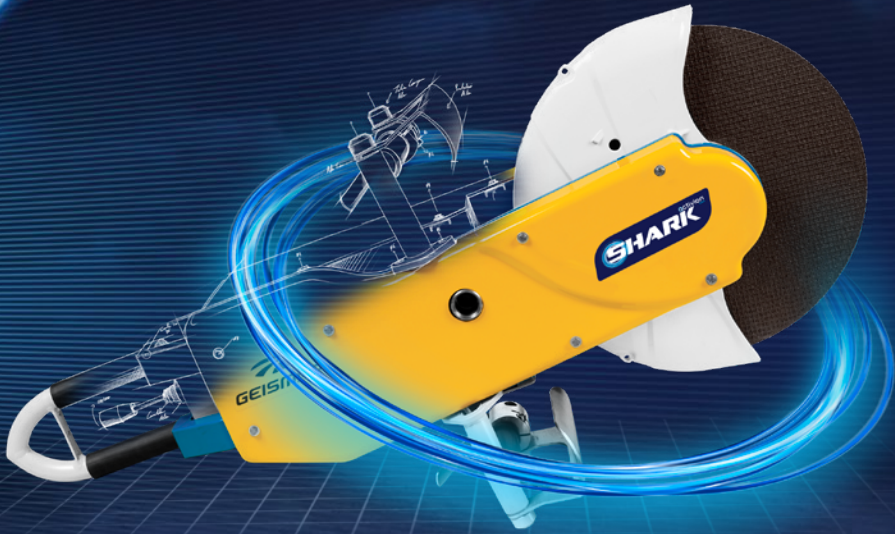
Rail knocker

SHARK

BATTERY-POWERED ABRASIVE RAIL SAW



BATTERY
TECHNOLOGY



Your benefits

- Efficient rail cutting thanks to the high battery power
- Gas emissions non-existent
- Integrated electronic safety
- 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

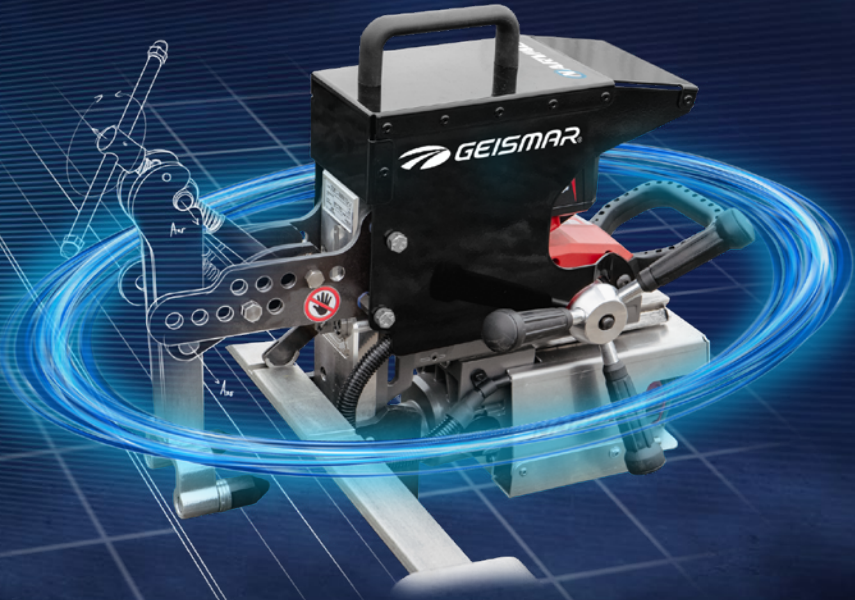
Specifications

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)



BATTERY POWERED RAIL DRILL

BATTERY
TECHNOLOGY



Your benefits

- Battery operated stand-alone rail drilling machine
- Easily transportable due to its low weight of 16.4 kg
- Quick and tool-free installation of Weldon's classic drills with Click and go system
- 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 (<i>standard drills</i>) 325 HB (<i>premium drills</i>)
Battery capacity	216 Wh
Autonomy	≈ 28 holes of Ø24 mm with one battery
Rotation speeds:	
- Speed for drill bits	400 rpm
- Speed for twist drills	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)



BATTERY-POWERED PORTABLE TAMPER

BATTERY
TECHNOLOGY



*Ergonomic backpack
handling system (option)*



Your benefits

- Optimal track tamping thanks to the constant vibrations frequency in the ballast
- Engine noise eliminated
- Gas emissions non-existent
- Enhanced performance through continuous tamping vibration frequency
- Easier to use and maintain
- Similar work gesture to thermic tampers

Specifications

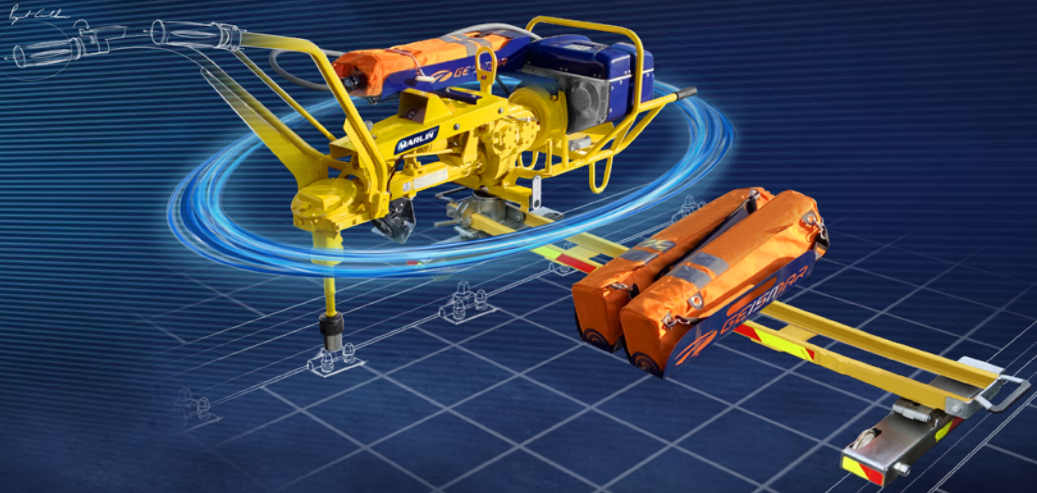
Start	Immediate start with On/Off button
Maximum tamping power	3.8 kW
Vibration frequency	92 Hz
Mass	47.8 lbs (21.7 kg)
Sound level	(L _{aeq}) 92 dB(A) (L _{wa}) 102 dB(A)
Vibration level	4.6 ms ⁻²
Tamping capacity with full battery	2h according to conditions
Dimensions (L x W x H)	20.6 x 15.3 x 45.3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



BATTERY-POWERED COACHSCREWING MACHINE



BATTERY
TECHNOLOGY



Your benefits

- A battery-powered coachscrewing machine with reliable and site-proven mechanics
- Accurate and high-performance tightening
- 2 rotation speeds
- 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>	Up to 540 cycles
• <i>Untightening</i>	Up to 900 cycles
Example of worksite with 4 Marlin with 5 batteries each:	
• <i>Tightening</i>	Up to 5,250 ft. (1,600 m)
• <i>Untightening</i>	Up to 8,860 ft. (2,700 m)
Mass without trolley	205 lbs (93 kg)
Mass of trolley without batteries	≈ 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 tr/min

ELECTRIC PORTABLE EQUIPMENT CONVERSION KIT
FOR BOLT HORNET - TC

BATTERY
TECHNOLOGY



Your benefits

- 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>	Up to 540 cycles
• <i>Untightening</i>	Up to 900 cycles
Maximum tightening torque	60 daN.m
Maximum untightening torque	>100 daN.m
Max. rotation speed	200 tr/min
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>)	40 lbs (18 kg)
Mass of the machine with AGX (<i>without battery</i>)	About 216 lbs (98 kg)

BARRACUDA

BATTERY-POWERED RAIL PROFILE GRINDER

BATTERY
TECHNOLOGY



Your benefits

- 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)
- 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

BATTERY
TECHNOLOGY



Your benefits

- 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

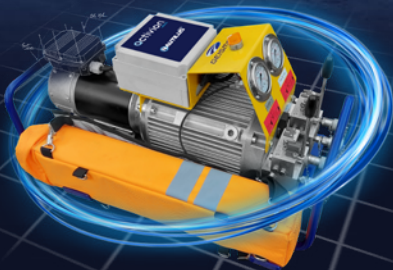
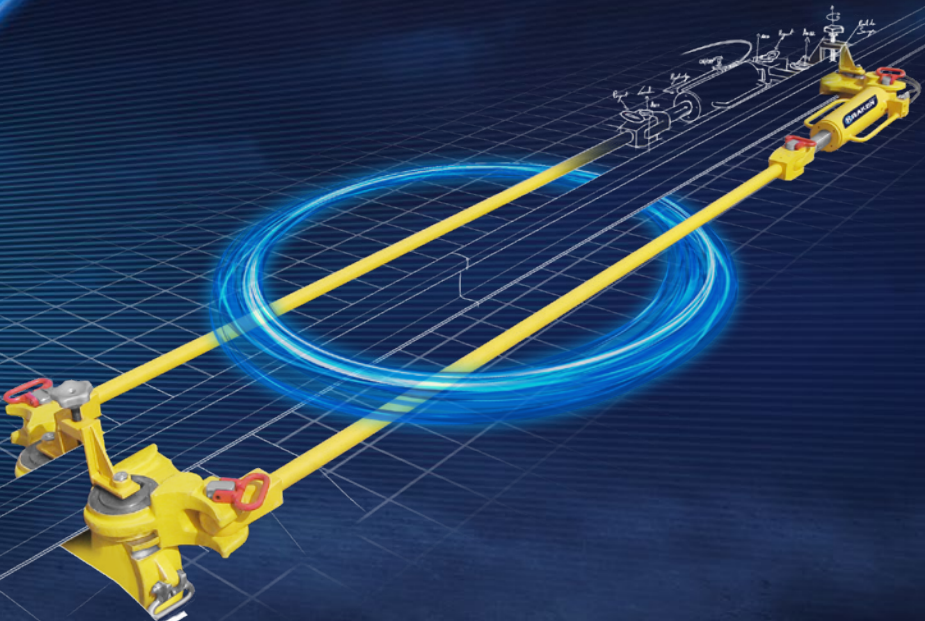
Power	6.3 kW
Autonomy with 1 battery	20 min continuous grinding
Tilting range on both sides	From -15° to +90°
Dimensions (L x W x H)	44 x 30 x 31.5 in. (1,120 x 760 x 800 mm)
Mass of the AGX (<i>engine only</i>)	40 lbs (18 kg)
Mass of the machine with AGX (<i>without battery</i>)	About 150 lbs (68 kg)

KRAKEN

COMING SOON

BATTERY-POWERED HYDRAULIC RAIL TENSOR

BATTERY
TECHNOLOGY



NAUTILUS

Hydraulic unit
with battery

Your benefits

- Quick rail elongations for long welded rails
- Possibility of cutting the rail whatever the type of saw via the use of arcs (optional)
- No gauge commitment
- Completely dismountable, quick installation under the rail in free track or over the rail in non-free track
- No change of work gesture

Specifications *

Maximum pulling force	700 kN
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Maximum pushing force:

- | | |
|--------------------|--------|
| • Without tie rods | 700 kN |
| • With arcs | 200 kN |

Power maxi	9.5 hp (7 kW)
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Cylinder stroke	15 in. (380 mm)
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Total mass	≈ 650.4 lbs (295 kg)
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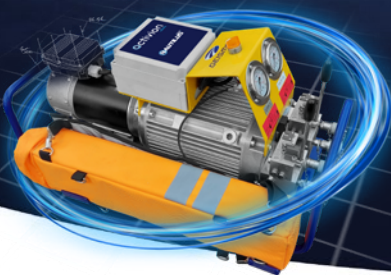
* Provisional data under validation

PIRANHA

COMING SOON

BATTERY-POWERED HYDRAULIC RAIL WELD SHEAR

BATTERY
TECHNOLOGY



NAUTILUS

Hydraulic unit
with battery

Your benefits

- Effective shearing of weld material excess after alumino-thermic welding of two rails end to end
- Compact shearing head enabling easy installation and cutting effort reduction
- Lightweight, compact and easy-to-use hydraulic unit with quick-connect flexible cables

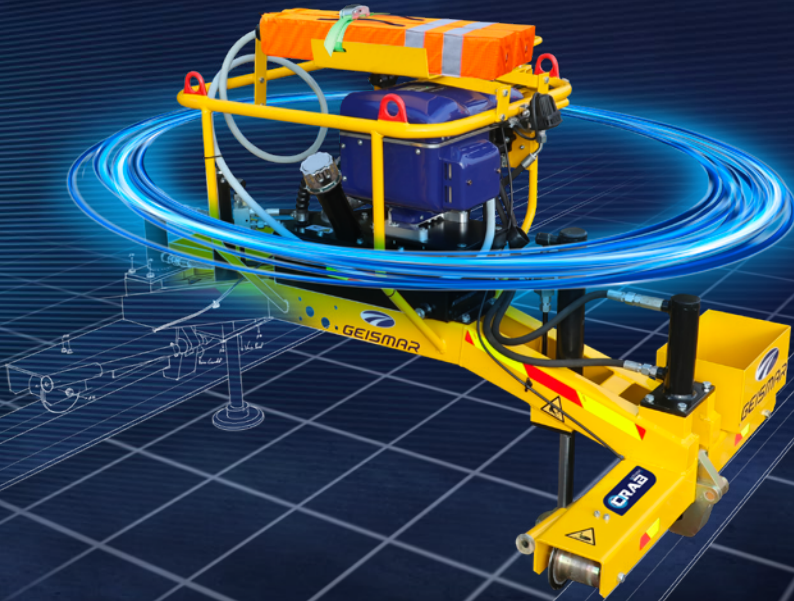
Specifications

Maximum pulling force	220 kN
Overall dimensions handles folded (L x W x H)	27 x 21 x 13 in. (676 x 526 x 323 mm)
Working pressure	325 bar
Cylinder stroke	6.10 in. (155 mm)
Total mass (without cutters)	≈ 104 lbs (47 kg)



BATTERY-POWERED RAIL LIFTING TROLLEY

BATTERY
TECHNOLOGY



Your benefits

- 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
- Similar work gesture to thermic trolleys

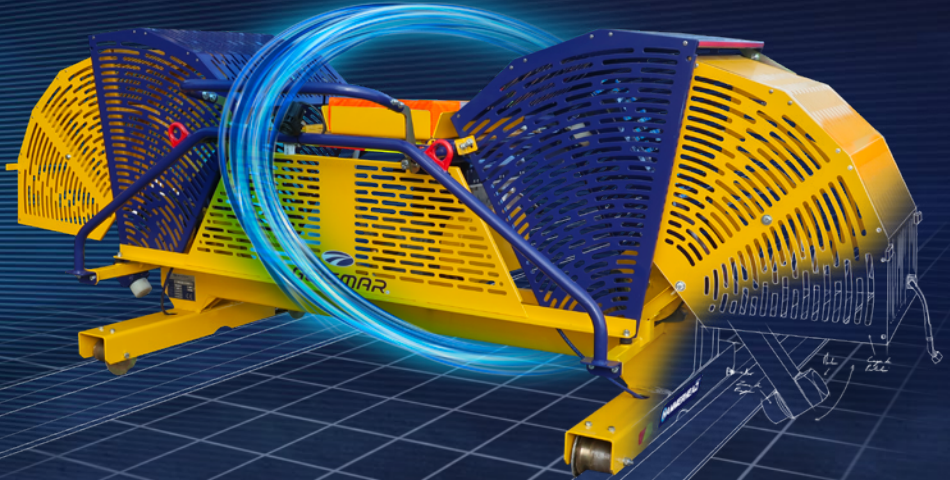
Specifications

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)

HAMMERHEAD

BATTERY-POWERED RAIL KNOCKER

BATTERY
TECHNOLOGY



Your benefits

- Rail destressing thanks to double hammers
- Great track mobility thanks to its lightweight chassis
- Hammer heads made of synthetic materials, preserving the rail surface
- 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)

* *Provisional data under validation*

NOCTURNA

BATTERY-POWERED WORKSITE PROJECTOR

BATTERY
TECHNOLOGY



*Storage box equipped
with an electrical supply*



Your benefits

- Tripod with adjustable height to guaranty stability on any terrain
- Unbreakable polycarbonate tube
- LED lamps for glare-free lighting and long life
- 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)	5.9 x 5.9 x 47.2 in. (150 x 150 x 1,200 mm)
Mass (light, tripod & power supply)	16.8 lbs (7.6 kg)

BATTERY BACKPACK FOR TRACK MAINTENANCE

Your compact, comfortable and smart work companion



Battery charger



Your benefits

- 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)	21.60 lbs (9.8 kg)
<ul style="list-style-type: none">• <i>Operating temperature</i>• <i>Storage temperature</i>• <i>Charging temperature</i>	<ul style="list-style-type: none">-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



RETROFIT



**GEISMAR
REBORN**



**COMMISSIONING /
TRAINING**



CALIBRATION



RENTAL



**EXTENSION OF
GUARANTEE**



**CERTIFIED
SECOND HAND**



SPARE PARTS



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SERVICE / REPAIR**

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