



TECHNOLOGY & INNOVATION

WHO WE ARE

Since 1978 we have been designing and building electrical and electronic systems tailored on the customer's needs, combining their specific know-how with our consolidated experience to develop the most suitable solution. The company's main focus is customer satisfaction, achieved through Quality and Innovation, the founding pillars of our mission.

The sectors in which we operate are often niche and highly specialised, thus requiring a team of highly trained specialists, as well as a network of high-level external collaborations (universities and private institutions).

We develop in-house electronic control systems, mechanical equipment, generators and electric motors, paying particular attention in balancing cost, quality and performance.



QUALITY



CREATIVITY



PRECISION



INNOVATION



EFFICIENCY



REPUTATION

"Every company's greatest assets are its customers, because without customers there is no company."

-Michael LeBoeuf-



WHAT WE DO and how we do

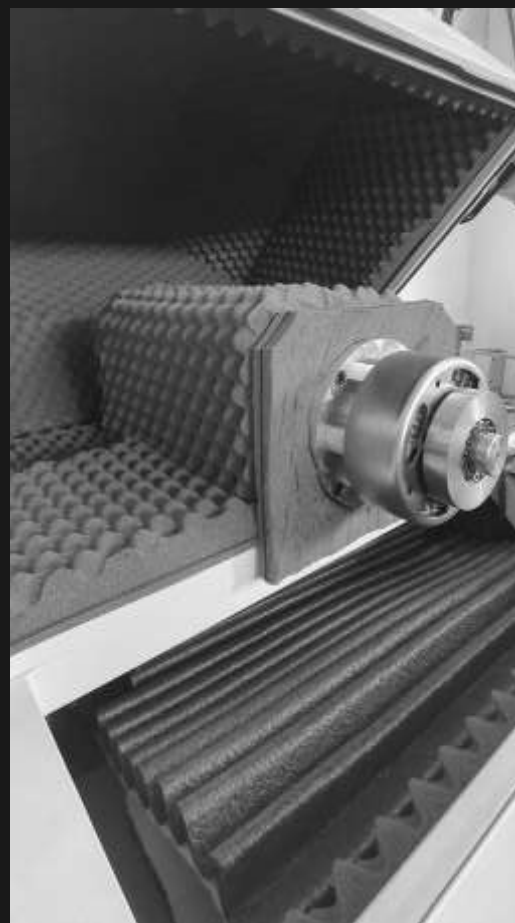
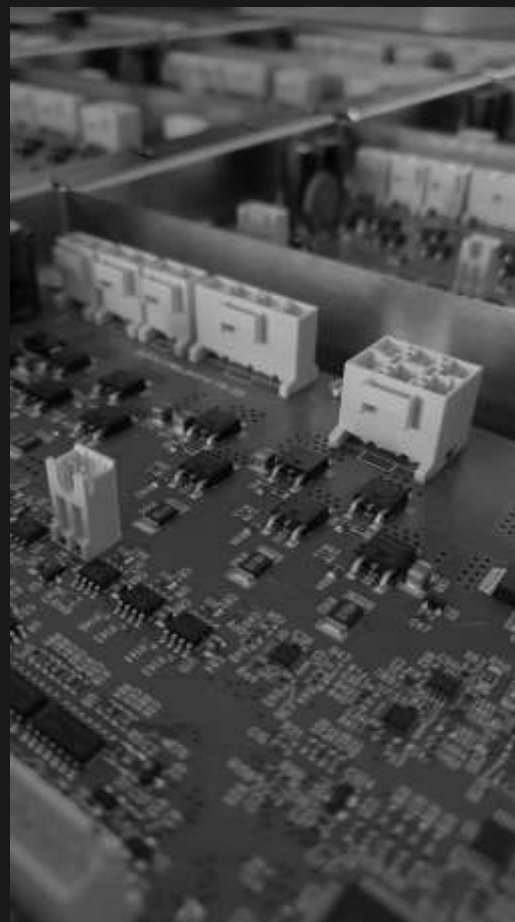
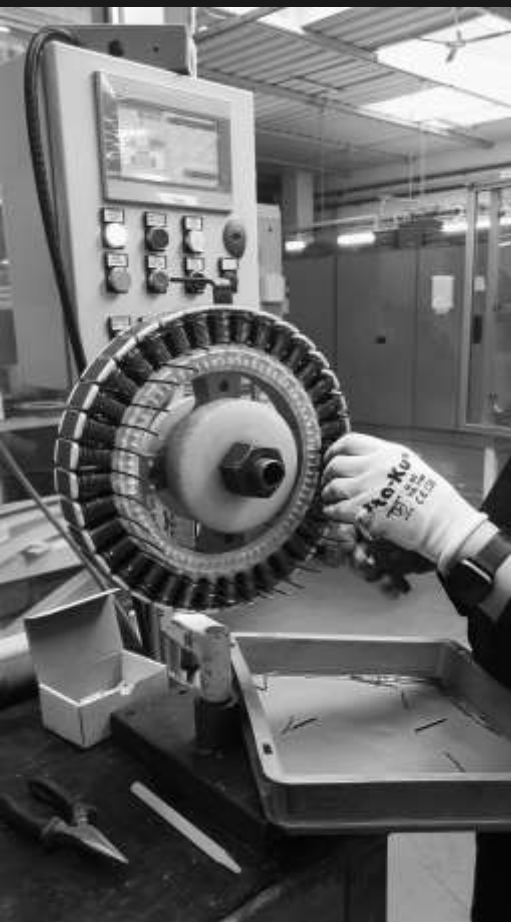
The skills acquired over the years have enabled IDM to operate in high-tech sectors such as robotics, hybrid vehicles, unmanned aircraft unmanned aerial vehicles (UAVs), medical equipment, power generation for Telecom & Security applications.

Our products meet international standards for environmental electromagnetic compatibility and vibration in both civil/industrial and military applications.

We have laboratories equipped for vibro-acoustic, thermal, functional and EMC testing and analysis.

Each product is designed, manufactured and validated in the plant of Montebelluna.





DESIGN TOOLS

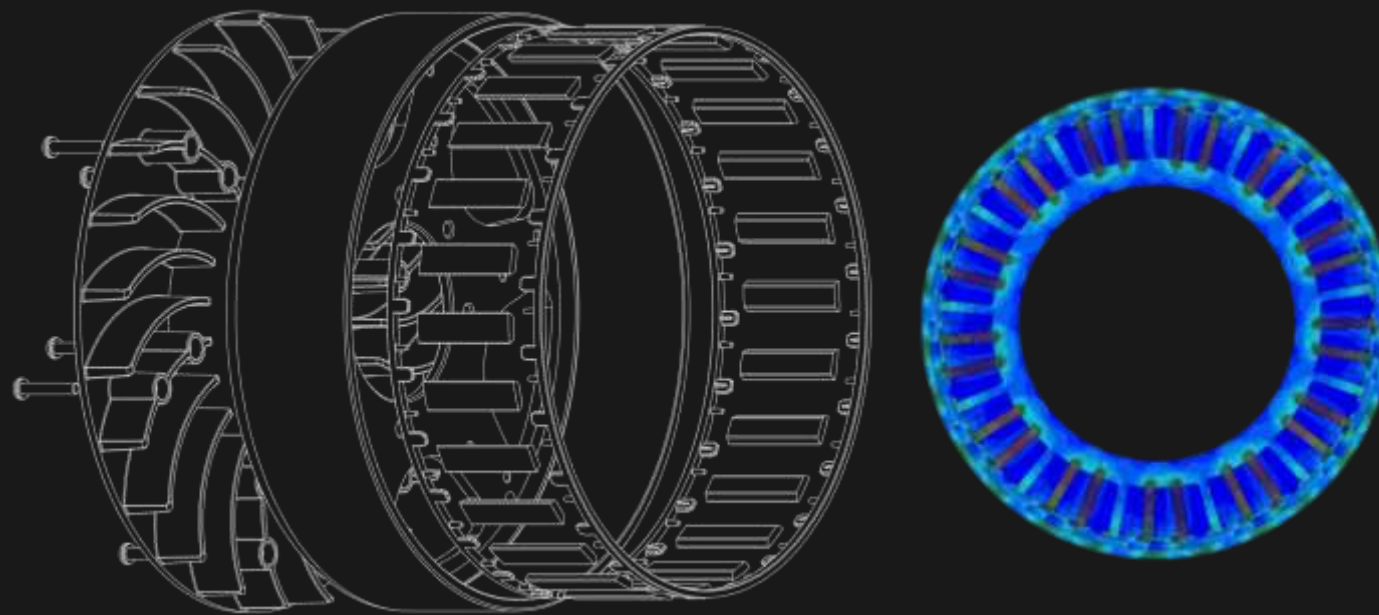
The use of electrical simulation software, FEM analysis and CAD 3D/2D, make it possible to quickly and accurately prototype of new products, customised and adapted to the customer's requirements.

We take care, step by step, of everything from conception design, engineering and testing.

All these activities are carried out in-house, in compliance with the required regulations, achieving the highest quality standards.



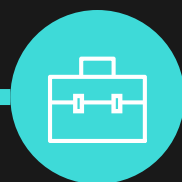
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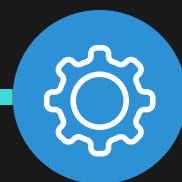
Brainstorming



Idea Selection



Business
Analysis



Start of
Development



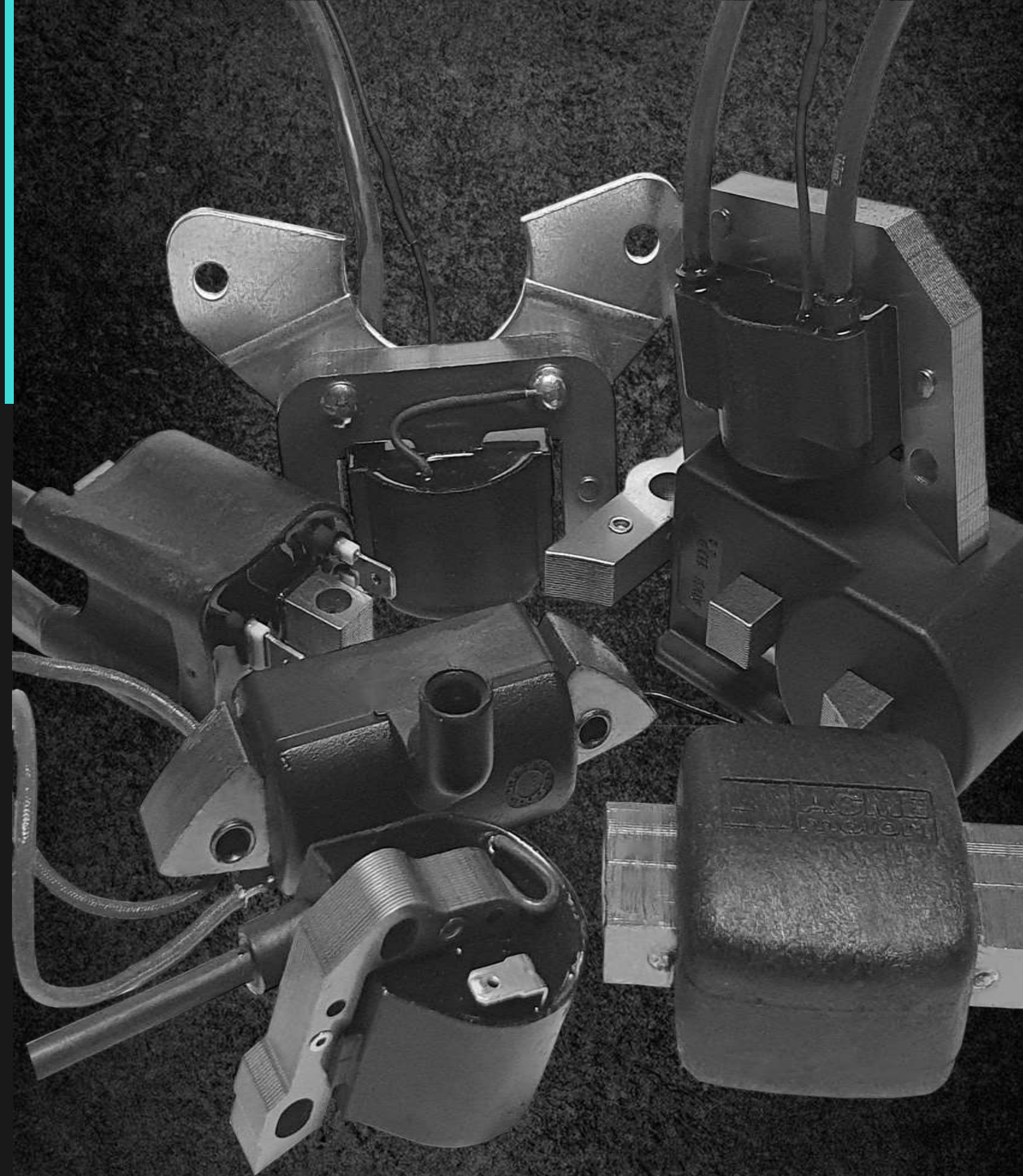
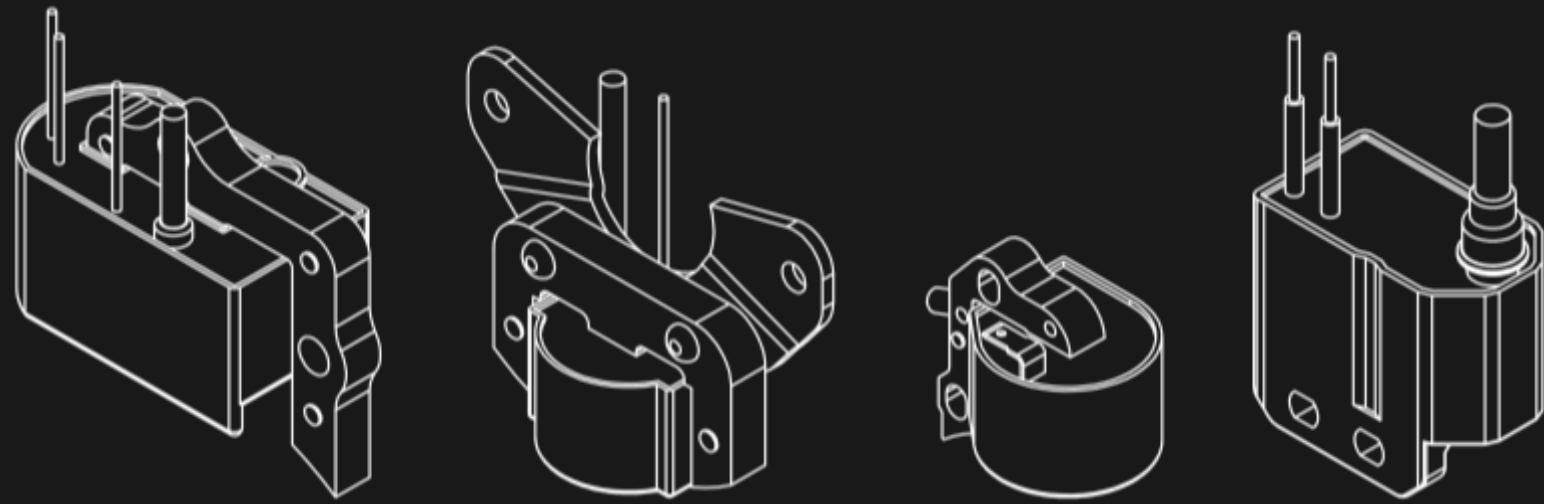
End of
Development



ELECTRONIC IGNITIONS

IDM manufactures electronic inductive or capacitive discharge capacitive, analogue or digital, and control units for various applications in agriculture, industry, gardening, motor paragliding, karting, motorcycling, ultralight and model aircraft.

Their use in single or multi-cylinder, 2- or 4-stroke engines guarantees performance, long-term reliability and maximum efficiency even in particularly harsh environmental conditions.

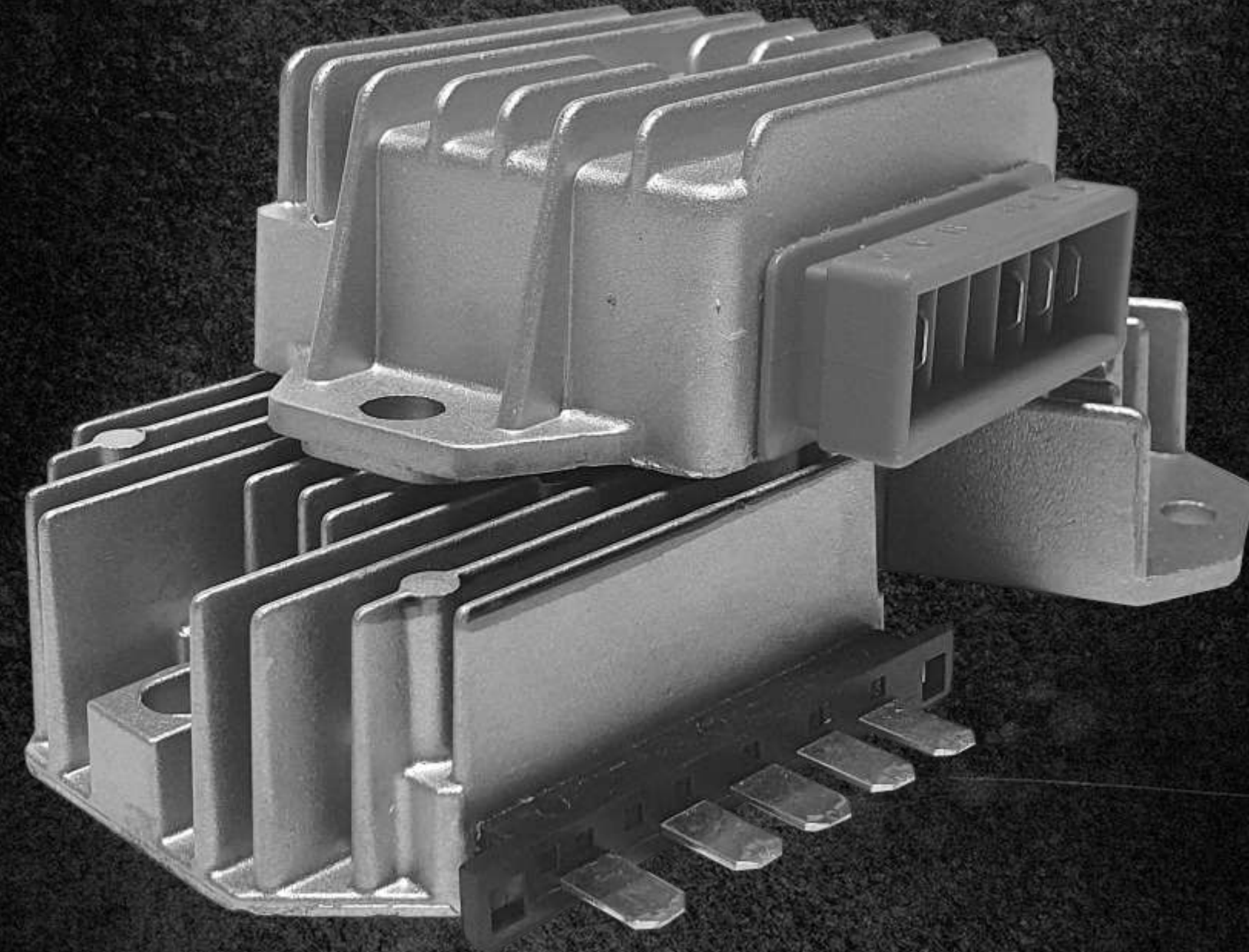
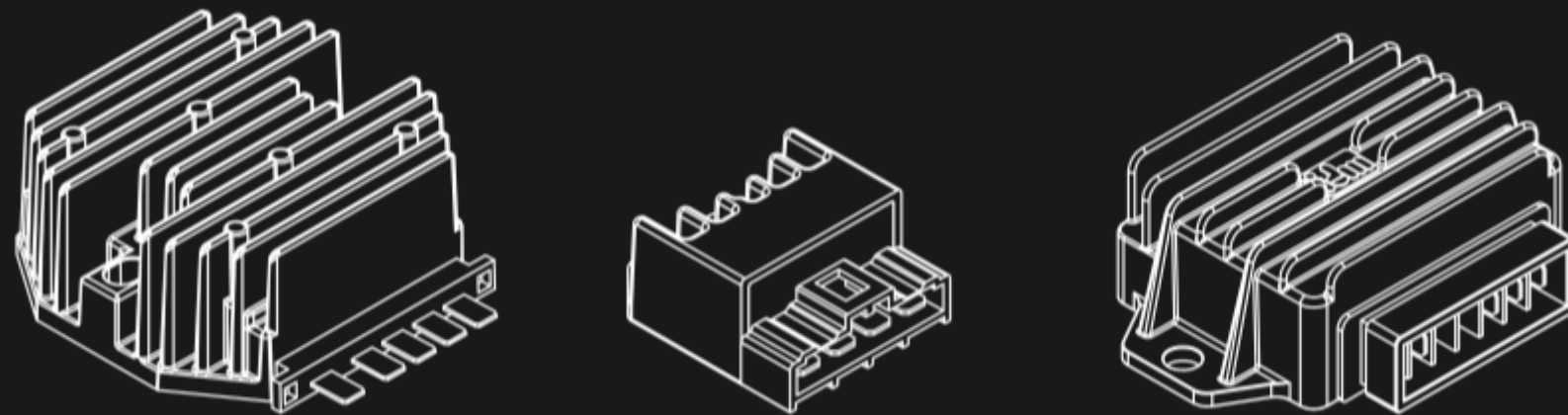


VOLTAGE REGULATORS

The pursuit of ever greater electrical efficiencies in battery charging and powering electrical loads has led IDM to develop a diverse range of voltage regulators that can be paired with our magnetic flywheels.

Robustness, waterproofing, dissipation, regulation precision, compactness, and customized connectivity are just some of the characteristics of IDM regulators.

They find applications, for example, in the agricultural sector, in construction, for airborne applications, on motorcycles, in camper vans, or in karting.

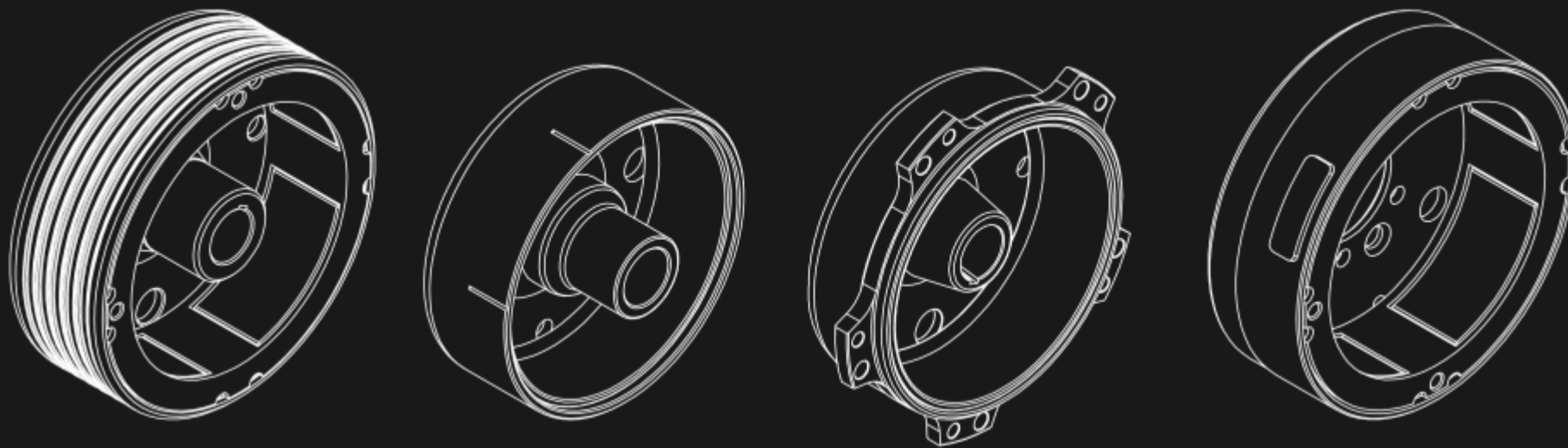


MAGNETIC FLYWHEELS

The magnetic flywheels produced by IDM are internationally renowned and are used by the most prestigious brands.

They allow the creation of systems for battery charging and lamp power supply which, combined with IDM regulators and ignitions, enable high levels of reliability and performance in any field of application.

Customers can request from IDM magnetic flywheels with customized couplings, dimensions, treatments, materials



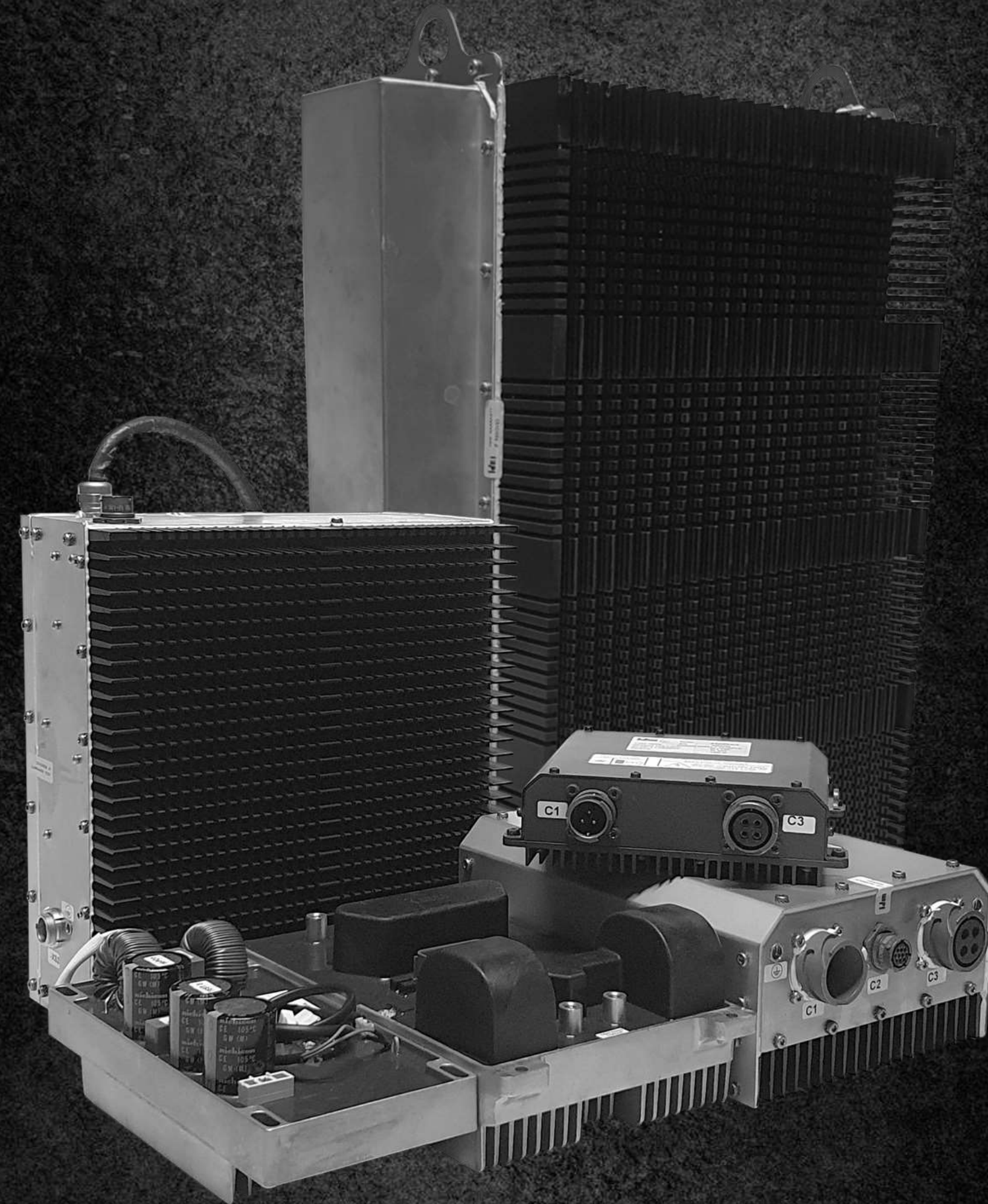
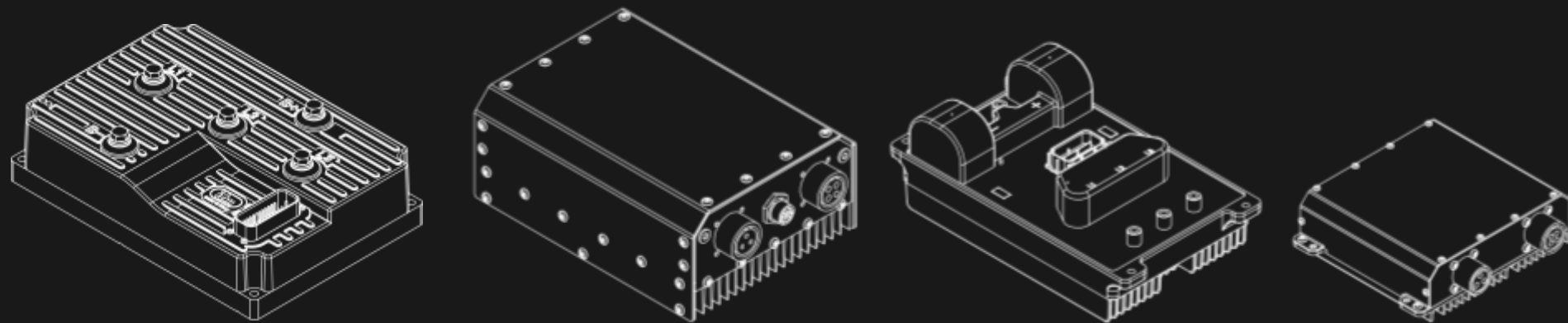
CONVERTERS

- AC/AC with sinusoidal outputs at standardized voltages.
- AC/DC and DC/DC for battery charging and load power supply.
- Bidirectional DC/AC for motor control and with Engine Starter Motor functionality.

Mostly paired with their own permanent magnet alternators, IDM's range of converters is extensive and, in most cases, designed to customer specification.

The design and construction choices adopted allow our converters to be certified according to the most stringent environmental, vibrational, and EMC regulations.

Our converters boast efficiency values among the highest available on the market.

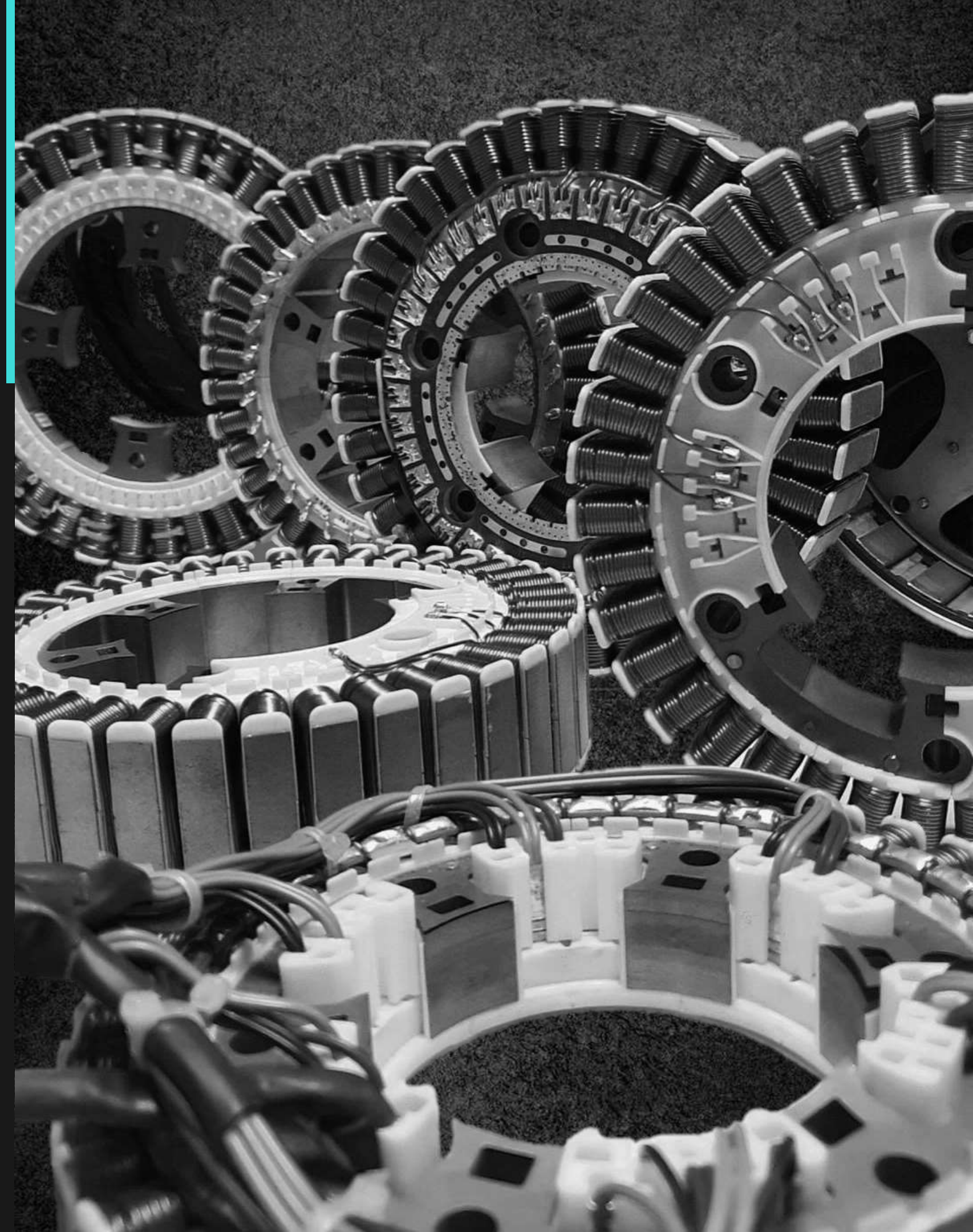
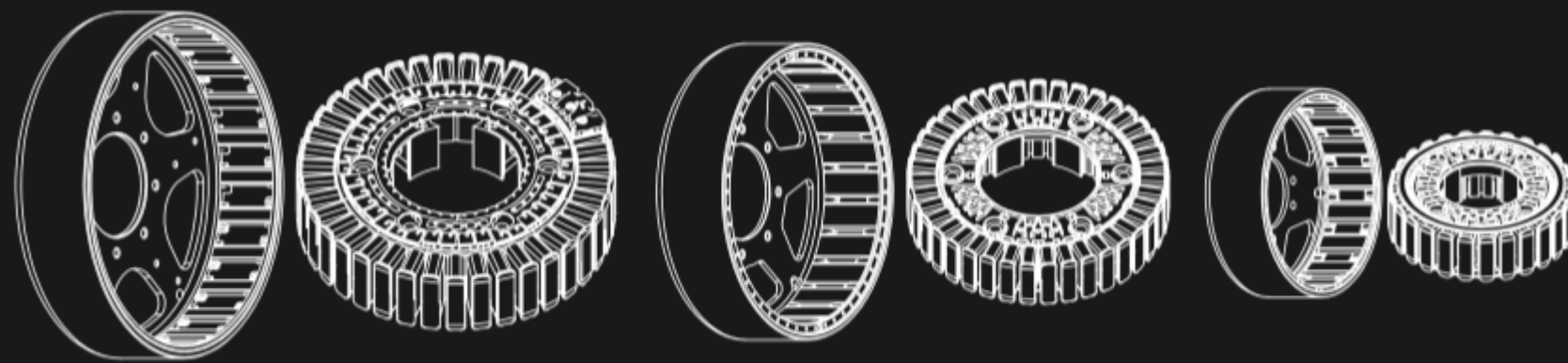


PMA ALTERNATORS

The production of Permanent Magnet Alternators ranges from a few watts up to 70 kW of rated power and dimensions up to 1 meter. The study of innovative configurations of magnetic circuits, developed through simulation programs and real tests, allows achieving extremely high efficiency values and power-to-weight ratio.

The characteristic radial development construction shape allows for particularly compact systems appreciated in the fields of electrical generation and traction (e-mobility).

The combination with IDM electronic converters ensures high flexibility and optimal performance.



IDM SOLUTIONS

BACKBOSS

This innovative generator is equipped with a Honda GX50 engine coupled with a high-efficiency permanent magnet alternator and an inverter, both produced by IDM.

It can be used in all situations where the national electricity grid is not available, as well as during temporary blackouts, to power small domestic utilities with adequate power.

Its lightweight, compactness, and the ability to be easily transported and used on the shoulder make it suitable for many applications, especially in remote areas or in case of natural disasters such as earthquakes and floods.

Additionally, two or more generators can be connected in parallel, thus significantly increasing the available power.



BACKBOSS



Dimensions (L x W x H)
300 x 280 x 570 mm
Dry mass 13.5 kg

Voltage 230 VAC
Frequency 50 Hz
Current 4.0 Amp
Power 0.9 kW


Engine 4-Stroke HONDA GX50
Fuel tank capacity 0.63 L
Variable speed
CE marking




POWER
900 Watt


ECO
FUNCTION


WEIGHT
13,5 Kg


NOISE
98dB (A)


USB
SOCKET

IDM SOLUTIONS

E-WHEEL

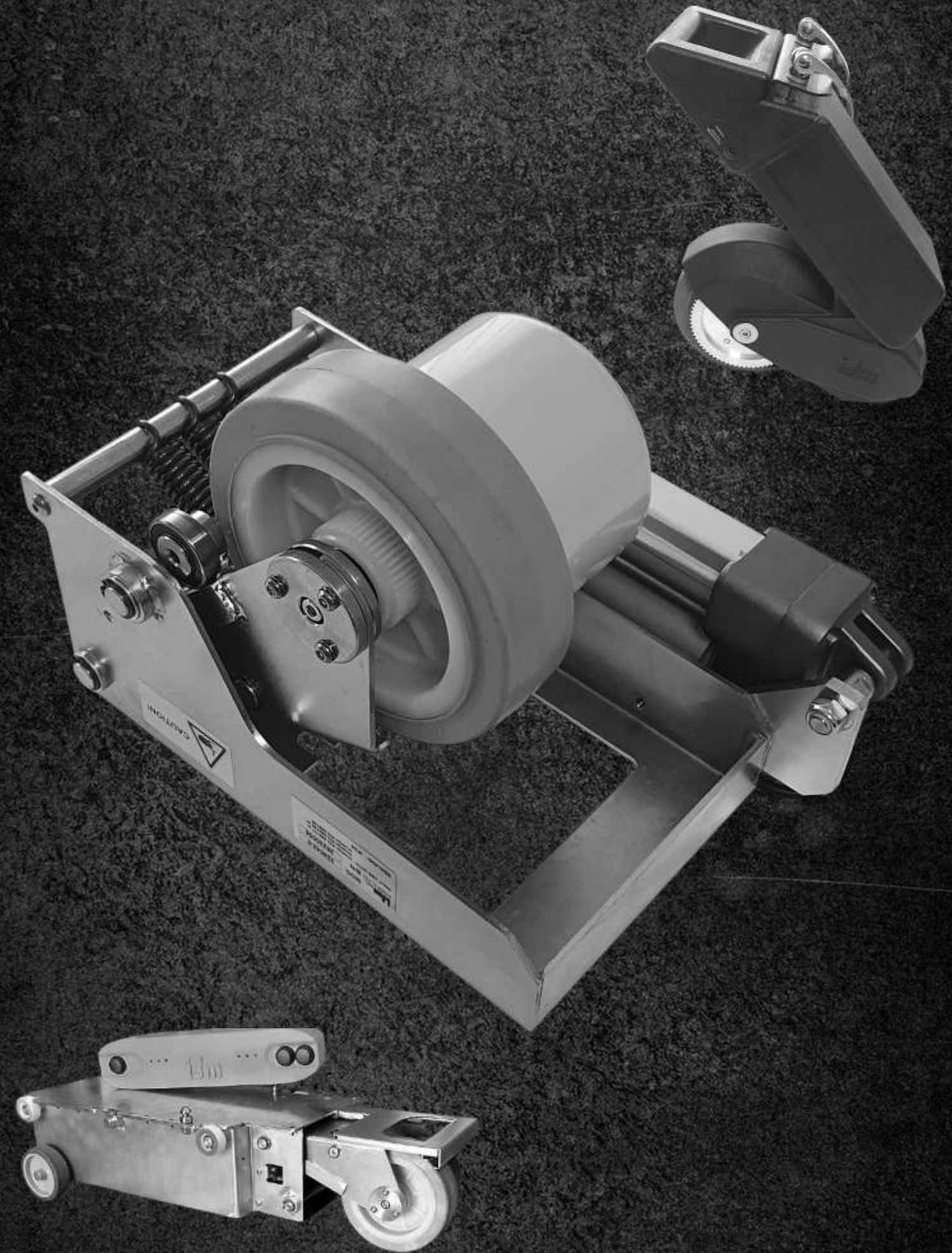
IDM produces a series of motorized wheels that can be lifted electronically.

These utilize a permanent magnet brushless motor and support battery power, with consumption lower by over 30% compared to wheels with a DC motor.

Our wheels find applications in various sectors:

- Industrial: handling heavy load carts
- Healthcare: moving hospital beds
- Medical: assisting in wheelchair movement

They are entirely manufactured in Italy and come with their own customizable control drive and board.



Andrea Pagliaro

Commercial Office

Phone: +39 3509516890

andrea.pagliaro@idm-srl.it





IDM S.r.l.

Via Feltrina Sud, 28_31044

Montebelluna (TV) ITALY

+390423300222

www.idm-srl.it