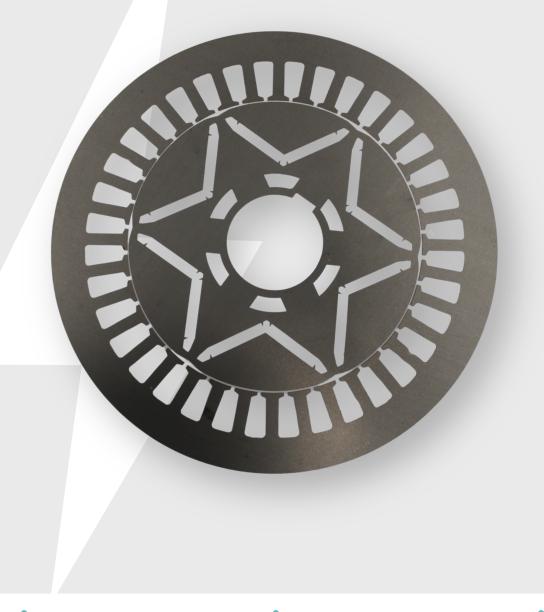


ELECTRIC MOTORS



Excellent compactness

High efficiency Moderate weight

INNOVATION IN MOTION

WHO WE ARE

DEVELOP INNOVATIVE ELECTROMOBILITY SOLUTIONS FOR TOMORROW'S APPLICATIONS

DESIGN AND MANUFACTURING OF ELECTRICAL COMPONENTS

EL MOTION is specialized in the design and manufacture of electric motors and electronic power management systems. Born to address demanding requirements, EL MOTION tailors solutions to precise challenges across diverse applications.

Our flexible approach to designing, producing, and marketing electrical components positions EL MOTION as an innovative enterprise. Attentive to customer needs, we continuously introduce fresh solutions in sectors where electrification is a key focus.

INNOVATIVE COMPONENTS FOR MANY APPLICATIONS

Our manufacturing primarily relies on permanent magnets to ensure excellent compactness, high efficiency, and moderate weight. Our magnet sourcing aligns with an economic and ethical vision of their production.

The technical challenges posed to EL MOTION across these sectors all share a common goal: to rely on a specialist capable of fully managing the project.

Each sector has specific needs that EL MOTION can meet.



AERONAUTICS



ADAPTED SYSTEMS





CONSTRUCTION EQUIPMENT





DEFENSE

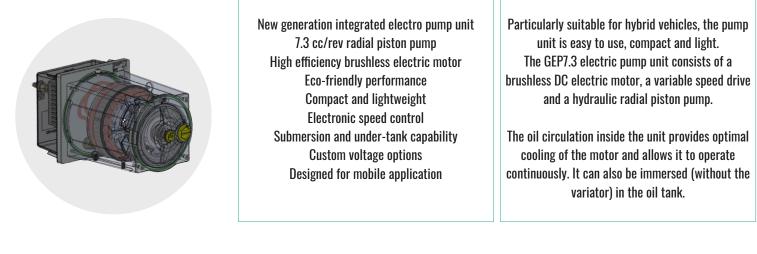


OIL & GAS

MOBILE HYDRAULICS

MOTOR KIT FOR HYDRO LEDUC POWERPACK | GEP7.3

FEATURES AND BENEFITS



THE PRODUCT

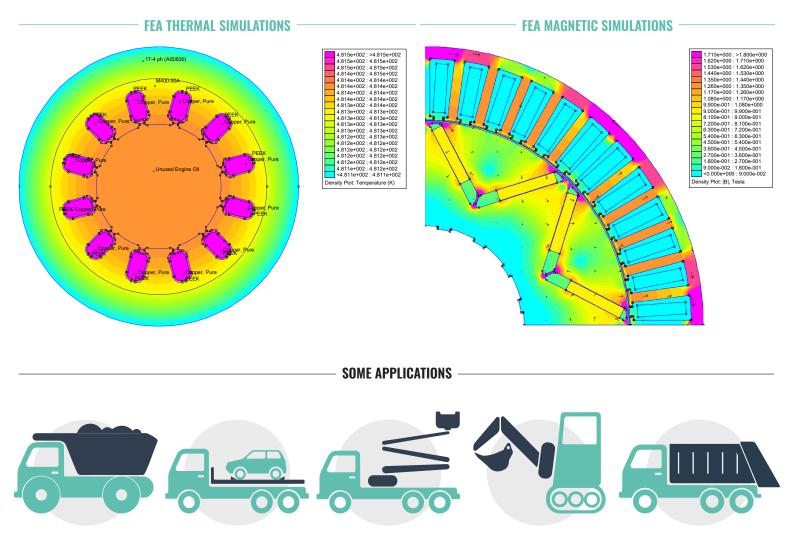
EL MOTION has optimized GEP7.3:

- Increased torque by +25% at constant speed.
- Reduced weight by -4kg compared to the first-generation GEP motor.
- Enhanced acoustic signature.

Available voltages								
Vdc								
12	24	48	96	400				

APPLICATION

GLOBAL ARCHITECTURE



Dumpers

Car-transporter

Platform

Mini excavator

Refuse truck

FEATURES AND BENEFITS

THE PRODUCT

Tailored for hydraulic pumps and compressors Compact and high-performance Optimized for hydraulic pumps Robust rotor design Reduced mass with modular design Neodymium-Iron-Boron permanent magnets DIN ISO14 Compatible coupling Standard 5V SIN/COS sensor Hydraulic Oil and glycol-water cooling Optimum performance for a range of hydraulic applications

TECHNICAL DATA AT 80°C GLYCOL WATER

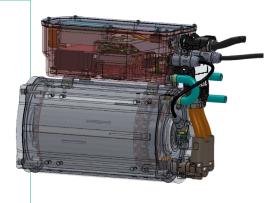
Motor technology	Operating temperature range	Temperature range with liquid cooling	Length	Diameter	Voltage	Power	Torque	Maximum speed	Current	Weight	Refrigerant flow rate (Water glycol)	IP Protection
	°C	°C	mm	mm	Vdc	kW	Nm	tr/min	A	Kg	L/min	
IPM	-20 / +55	-40 / +120	447	230	650 - 800	76,5	261	2800	120	60	6	IP 67 IP 69K ⁽¹⁾

(1) On request

INVERTER VEL350 L

THE PRODUCT

Advanced inverter technology with 4 quadrant SPWM drive High supply range of 650 to 800 Vdc Maximal current of 300 Arms Efficient cooling system (water 50% / glycol 50%) Qualified with ME230 to made ePTO ready to start Customizable Voltage and current Optimized compact design on ME230

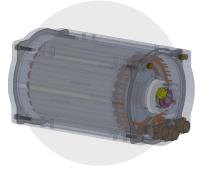


TECHNICAL DATA

Inverter	Voltage	Current	Refrigerant flow rate (Water glycol)	Weight	Feedback
	Vdc	A	L/min	Kg	
SPWM	48 to 800	100 to 550	6	10	Resolver

— SOME APPLICATIONS





MOTORS FOR HARSH ENVIRONNMENTS

Type of motor

Brushless

Internal

pressure

2000

ME 22

Torque /

Performances

24 20 000 0.1

Lenght

79

Diameter

22

Temperature

(°C)

-20 / +175

(oil cooling)

ME 30									
Internal pressure resistance	Type of motor	Temperature (°c)		Torque / rforman		Lenght	Diameter		
bar		°C	Vdc rpm Nm			mm	mm		
2 000	Brushless	-20 / +175 (oil cooling)	48	5500	0.14	90	30		

ME 57 -

Differential pressure resistance	Type of motor	Temperature (°c)	Torque / Performances			Lenght	Diameter
bar		°C	Vdc	rpm	Nm	mm	mm
400	Brushless	-20 / +120 (water cooling)	600	3000	8	241 (without shaft)	57

CUSTOMIZED PRODUCTS FOR AERONAUTIC / DEFENSE

THE PRODUCT –

Operates between 18V to 32V Delivers 1.44Nm of torque at 3000 rpm Offers two rotation directions, selectable via two terminals, mimicking a DC machine. Integrated Analog Electronics D0160 Qualified Built-in Thermal Safety Motor drive variable displacement hydraulic pump Landing gear application

SOME APPLICATIONS







Driller

Defense

Truck mixer

Oil & Gas

Aeronautic

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