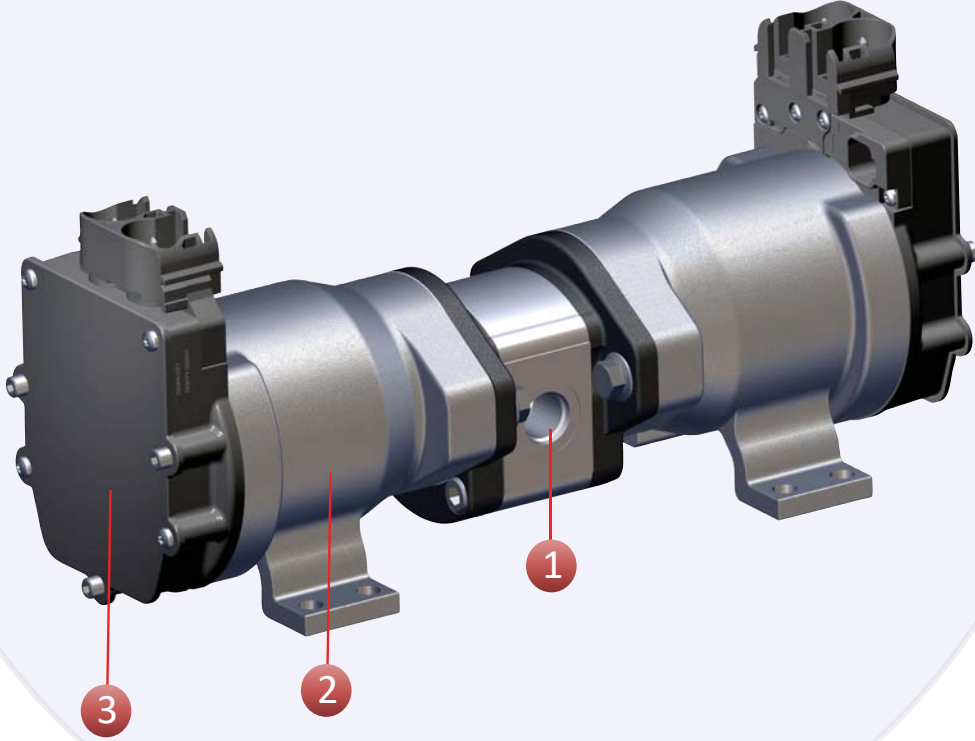


Electro-Hydraulic Systems

PUMP *ELECTRO*

Electro Hydraulic Pump for Electric Vehicles



- 1 Hydraulic Pump
- 2 Electric Motor
- 3 Electric Motor Control Unit

BENEFITS

- Fully compatible with electric vehicles.
- Low power consumption due to Power On Demand.
- Compact structure with integrated power electronics.

PRODUCT CHARACTERISTICS

Max Pressure (bar)	185
Flow Range (l/min)	4 ~ 18
Rated Voltage (V)	24
Operating Voltage Range (V)	18 ~ 32
Rated Current (A)	150
Max Current Consumption (A)	180
Electrical Rated Output – 2xMotors (W)	3600
Max Power Consumption – 2xMotors (W)	4200
Electric Motor Type	2xBLDC
Communication	via CAN bus
Suction Port Thread	M27x2
Pressure Port Thread	M22x1,5
Power Connections	2xM6 Bolts
Signal Connection	DT06-6S
Operating Temperature (°C)	-40 ~ +105
Protection Class	IP6K9K
Weight (kg)	14,5

PUMPElectro – HEMA Electro Hydraulic Power Steering Pump is designed to be used in electric trucks, buses and tractors.

Depending on the varying demand for hydraulics on the vehicle, PUMPElectro mainly provides the exact amount of oil flow needed in certain pressure levels in order to operate the vehicle hydraulic systems. PUMPElectro consists of a pump, two BLDC type electric motors, two motor drivers, mechanical parts and brackets.

Thanks to the compact structure of PUMPElectro consisting of integrated electronic control unit, it is easy to mount on the vehicle.

Operating Principle:

The motor drivers control the speed of electric motor in certain torque levels based on the hydraulic requirements.

The speed of electric motors and pump is identical, and is able to be controlled either by the main controller of the vehicle via CAN Bus directly, or by a control function to be provided for speed control. The pump generates oil flow needed depending on the speed and displacement.

Application Fields:

- Steering Systems of Heavy Duty Electric Trucks and Buses
- Steering and Lift Systems of Electric Tractors