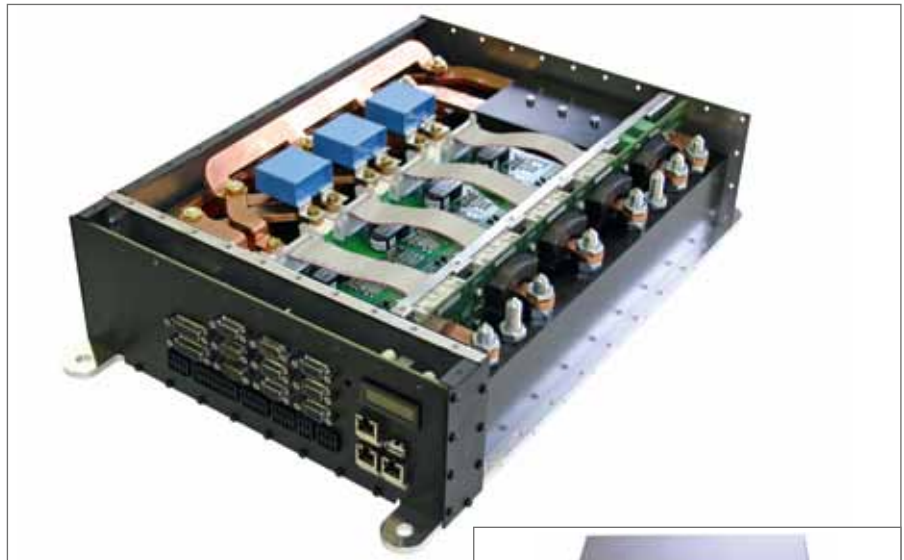


MACCON is a leading supplier for electric motors, motor controllers and Motion Control products. We are the partner for industry and research, when demanding drive and positioning problems are to be solved with the assistance of the electric motor.

We supply motors of all technologies as well as power and control electronics in the power range of 10W to 250kW.

Typical products and services:

- Electric motors of all types
 - Electro-mechanical actuators (EMAs)
 - Drive and control electronics
 - Sensors (resolvers, encoders etc.)
 - Electro-mechanics (steppers and small motors, clutches, slip-rings, solenoids etc.)
 - Custom motor solutions
 - Motors made to measure!
 - Custom drive solutions
 - Drive Electronics to match!
 - Motion Control and engineering services (Motioneering®)
 - Drive components for hard environments (Hi-Rel, military and aerospace)
 - CAD Software for motors and electro-magnetic systems
 - Key Motion Control technologies
- In addition we increasingly support applications in the fields of:
- Electric traction and propulsion
 - Starters and power generation
 - Dynamic and demanding servo-drive technology
 - Energy-conversion for regenerative and green energy programs



High power Drive electronics for E-traction

The photograph above shows the open view of the MACCON MI/400-400 motor controller.

Some of the outstanding features of this modern motor controller and drive development platform are:

- compatible with DC, 3-phase AC-induction and DC-brushless motors
- wide voltage supply range (100-450V)
- continuous power output of up to >160kW
- 24V aux. supply (9-36Vdc)
- 400Arms continuous, phase current
- internal and external regeneration
- high power 3-phase IGBT output stage
- 3 current sensors
- mounted on base plate, water cooled

The heart of the MI/400-400 motor controller is the MACInverter®, which is possibly the most advanced state-of-the-art, embedded control card for the operation of electric motors available today:

