

MACCON

MOTION UNDER CONTROL

Torque, Linear and Custom Motors

Stepper, Servo and Traction Motors

Drive Electronics and Controllers

Actuators and Sensors

CAE Tools and Engineering

Motion Control Systems

MOTION CONTROL PRODUCTS

Partnership in Motion



MACCON

The Mechatronics Company

MACCON – PARTNERSHIP IN MOTION

MOTION CONTROL PRODUCTS & SERVICES

MACCON and our Partners

Applications

The products of MACCON and its partners can be found in every field of engineering, requiring electric motor drives. Here are just some of the application areas, where our products and services are used:

- Aircraft & UAVs
- Alternative Energy
- Astronomy
- Automated Assembly
- Automotive
- Consumer & Banking
- Construction Machinery
- Defence & COTS
- E-Traction
- Infotainment
- Life Sciences
- Machine Tools
- Marine & Underwater
- Medical
- Motor Design & CAE
- Optics
- Precision Machines
- Process Automation
- Production Automation
- Robotics
- Science & Research
- Semiconductor & Electronics Manufacture
- Space Mechanisms
- Special Machines: printing, packaging etc.
- Test, Measurement & Inspection
- White Goods

MACCON and the Industry

MACCON is a leading supplier of electric motors, EM-actuators, drive and control electronics as well as Motion Control accessories. These products are not only of our own design and manufacture but also come from our partners. This brochure is dedicated to them; it displays the quality and breadth of their offering.

Together we offer a comprehensive drive solution for any Motion Control application up to 250 kW.

Motors & EM-Actuators

- Torque Motors
- Servomotors
- Traction Motors
- Stepper & Hybrid Servomotors
- Linear Motors
- EM-Actuators (cylindrical)
- Linear Actuator Units
- Rotary Actuator Units

Controllers

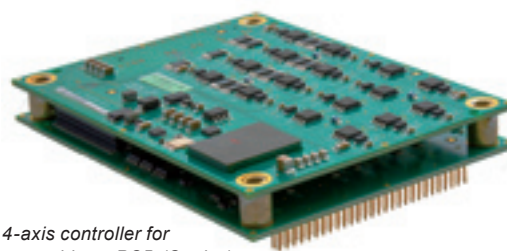
- Servodrives
- Stepper Drives
- Traction Drives
- Single and multi-axis Motion Controller (Soft-PLC)

Encoders

- Optical (Heidenhain, Renishaw, Numeric Jena)
- Electrical (Netzer)
- Magnetic/Resolvers (LTN, Tamagawa, Harowe, Inductosyn)
- Magnetoresistive (AMO, Bogen, MACCON)

Accessories

- Joysticks & Tracker Balls, ruggedized
- Slip-ring Assemblies
- RF Rotary Joints



4-axis controller for assembly on PCB (Copley)



Kit torque motor (Thin Gap)



Ironless tubular motors (Akrabis)

MACCON – PARTNERSHIP IN MOTION

MOTION CONTROL PRODUCTS

Motors and EM-Actuators

Our major Partners for Motors & EMAs

Here we show the Logos and typical Electric Motor and Electro-mechanical Actuator products of our partner companies. These partners have been chosen because their standard motor products complement our own bespoke motor capability perfectly.

MACCON has worked with these companies for many years; our team is familiar with their products and can support them well. In many cases we have exclusive sales rights for the German-speaking markets.



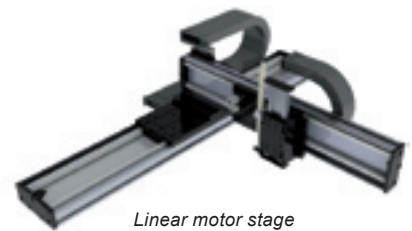
Roller-screw actuator (Diakont)



Thin-ring torque motors (Allied Motion)



AKM Servomotor (Kollmorgen)



Linear motor stage (Sinadrives)



Ironless linear motors (Tecnotion)



STK torque motor (Alxion)

Our manufacturer partners



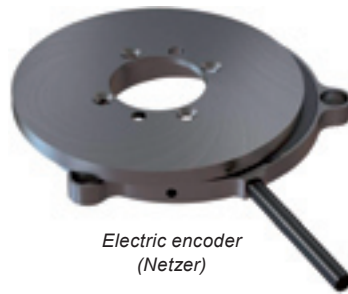
MACCON – PARTNERSHIP IN MOTION

MOTION CONTROL PRODUCTS

Controllers, Encoders & Accessories



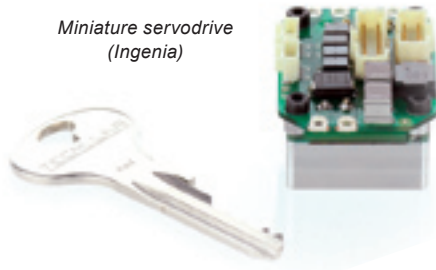
Servo-drive (Copley Controls)



Electric encoder (Netzer)



Optical rotary joint (Princetel)



Miniature servodrive (Ingenia)



AKD Drive (Kollmorgen)



MACCON – PARTNERSHIP IN MOTION

MOTION CONTROL APPLICATIONS

MACCON – A World in Motion

Here we present just some of many application examples for our Motion Control products, Know-how and Services.

Astronomy

- Controls for astronomical telescopes
- Choppers and aperture controls
- Planetarium projection positioners



Planetarium projector

Military Vehicles

- Platform positioning controls
- Turret and Cupola drives
- Seeker heads



Servo-driven radio telescopes

Automotive

- Motors, actuators and controls for steer- and brake-by-wire systems
- Compressors, pump, auxiliary motors



Laser scanner for 3D metrology

Science

- Precision positioning systems
- High-speed chopper drives

Industry & Medicine

- Patient tables
- Material testing equipment
- Indexing tables



Robotic surgical microscope

Space

- Inertia-wheel drives
- Scanner motors
- Control electronics



Motion control in space

Air & Sea Defence

- Rudder control systems (ACUs) for missiles, drones, torpedoes and ROVs
- Periscope drives
- Winches & Towed-array drives
- Propulsion motors for underwater ROVs

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Actuators and Sensors	Fax 089/65 52 17
CAE Tools and Engineering	sales@maccon.de
Motion Control Systems	www.maccon.de

Company Portrait

MACCON is a leading supplier of electric motors, EM-actuators, drive and control electronics in the range of 1 W to 250 kW. The company was founded in 1982.

MACCON provides drive solutions to meet demanding system requirements. We co-operate with many reputable product manufacturers, combining their high-quality products with our own custom-developed designs, to create high-performance yet cost-effective drive systems.

Our mission is to serve users in solving their real-time motion control problems in machines, processes and experiments. We ensure that the target machine exhibits:

- Precise, dynamic and smooth motion
- Compatibility with electrical and mechanical interfaces as well as with the host control
- Perfect adaptation to the physical environment

We are committed to providing our customers with top quality products and performance along with expert technical support. We strive to be the technical leader in motion control systems.

Firmenportrait

MACCON ist ein technisch führender Anbieter von Elektromotoren, EM-Aktuatoren, Antriebs- und Steuerelektronik in der Leistungsklasse 1 W bis 250 kW. Das Unternehmen wurde 1982 gegründet. MACCON löst anspruchsvolle Antriebsaufgaben, die hohe, technischen Anforderungen stellen. Wir arbeiten mit vielen renommierten Partnerunternehmen zusammen, deren hochwertige Produkte, kombiniert mit unseren eigenen Entwicklungen, die Realisierung leistungsfähiger und zugleich wirtschaftlicher Antriebssysteme ermöglichen.

Es ist unsere Aufgabe, Anwender bei der Lösung ihrer Echtzeitbewegungsprobleme in Maschinen, Anlagen und Experimenten zu unterstützen. Wir stellen in der Zielmaschine sicher:

- eine genaue, dynamische und gleichläufige Bewegung
- die Anpassung unserer Produkte an die Hoststeuerung sowie an die mechanischen und elektrischen Schnittstellen
- eine perfekte Anpassung an die physikalische Umgebung

Wir sind dem Grundsatz verpflichtet, unseren Kunden sowohl eine erstklassige Produktqualität und -performance als auch eine gute technische Beratung zu liefern. Wir streben die fachliche Führung im Bereich der elektronischen Antriebstechnik an.

