



Achieve Stability:
**Next-Gen
Electronic
Components for
Gimbal & Turret
Designs**

electronics ■ mechanics ■ interconnect

Saca
— europe sp. z o.o. —

■ sacaeurope.com

**ICPE**

Torque Motors - Direct Drive Motors -
Frameless Motors -
Brushless Servo Motors - Resolvers

XSENS**Xsens**

MEMS Based Tactical Grade IMUs

**Advanced Motion Controls**

Servo Motor Drives

**SynQor**

3U VPX AC-DC & DC-DC
Power Supplies

**EMI Solutions**

EMI Flex Filter Inserts -
EMI Filtered Connectors

**Micropol**

Expanded Beam
Fiber Optic
Connectors & Cables

**IEH**

Hyperboloid Contacts -
Hyperboloid PCB
Connectors

**REI**

Brushless Torque Motors -
Voice Coil Actuators -
Resolvers

**SECO**

Edge Computing - IoT - AI -
COM HPC - SBC Modules

**Panlink**

Slipring -
Rotary Joints

**Diamond Systems**

NVIDIA Solutions - SBC Modules -
Analog I/O - Digital I/O - Serial Comms -
Ethernet Switches - Accessories

**Omnetics**

Miniature Micro D -
Nano D - Power &
Signal Hybrids
Connectors

**Netzer**

Electric Absolute Ring Encoders -
Open Frame Encoders -
Hollow Shaft Encoders -
Rotary Shaft Encoders

**Lin Engineering**

Frameless Motors -
Micro DC Motors

**Safran****Sensing Technologies****Norway AS**

Tactical Grade MEMS -
Based Gyros - IMUs

■ electronics ■ mechanics ■ interconnect

SYNQOR



Specializes in ruggedized power conversion solutions with wide input voltage ranges, ensuring efficient performance in stabilized systems.

Usage

Power conversion and management for stabilized systems.

Unique Features

High efficiency, high power density, DC-DC converters, wide input voltage range, and ruggedized designs, MIL-STD compliance for military applications.



XSENS



Thanks to their sensor fusion algorithm, provides advanced motion-tracking solutions with high-accuracy and wide-range sensors which are essential for precise orientation and stabilization in dynamic environments.

Usage

Inertial measurement units (IMUs) for precise motion tracking and north finding.

Unique Features

Kalman filter-based sensor fusion algorithms, real-time orientation estimation, suitable for dynamic motion environments.



DIAMOND SYSTEMS



Specializes in fanless embedded computers with scalable performance options, designed for harsh environmental conditions and mission-critical applications.

Usage

Embedded computing platforms for control and data processing.

Unique Features

Fanless operation and ruggedized construction, scalable performance options, extended temperature range, and MIL-STD compliance.



SECO



Offers compact and modular embedded computing solutions with high computational power and long-term availability, ideal for real-time applications.

Usage

Compact computing solutions for real-time applications.

Unique Features

Modular design for flexible integration, high computational power in a small footprint, long-term availability, and lifecycle management.



SAFRAN SENSING TECHNOLOGIES NORWAY AS



Focused on high precision tactical grade MEMS Based gyroscopes and IMUs.

Usage

With exceptional durability, low Size-Weight-Power (SWaP) profile, and long-term performance, they provide reliable data for critical missions.

Unique Features

ITAR Free, Hermetic package, ARM microcontroller provides flexibility in configuration, like choice of output unit, sampling frequency, LP filter -3dB frequency and RS422 bit-rate.



REI



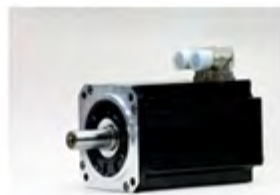
REI offers best customized and off-the-shelf solutions to meet the needs of system integrators through it's highly reliable and durable critical components.

Usage

REI's products are primarily used in applications where precision is critical.

Unique Features

Multi-sector specialization, precision and reliability, in-house design and assembly capabilities from R&D to production and inspection, enabling full control over performance and quality.



ICPE



Specializes in high-torque, custom-made compact motors ideal for precision motion control in gimbal and turret systems.

Usage

Precision motion in gimbal and turret systems.

Unique Features

High torque-to-weight ratio, compact design for space-constrained applications, high power density.



PANLINK



High-performance slip rings with low electrical noise and compact designs, RF and fiber optic rotary joints.

Usage

Transmitting power and signals in rotating assemblies.

Unique Features

Low electrical noise and signal degradation, high bandwidth for data transmission, compact and lightweight design. Throughbore models allow designers to solve the complicity of multiple cable existences.



ADVANCED MOTION CONTROLS



Offers advanced motor driver solutions with high power density and fault-tolerant designs, ensuring reliable operation in dynamic environments. Suitable for all motor types and feedback devices.

Usage

Motor control and stabilization in dynamic environments.

Unique Features

Advanced servo algorithms for smooth operation, high power density and thermal management, fault-tolerant, and mini-sized design for reliability under stress.



NETZER



Known for non-contact, high-precision encoders that offer reliable position feedback with its low-profile and weight.

Usage

Durable and accurate position feedback in gimbal and turret systems.

Unique Features

Non-contact, absolute position measurement, high resolution, and accuracy, resistance to shock, vibration, and extreme temperatures.



LIN ENGINEERING



Capable of manufacturing hybrid stepper motors, BLDC motors, gearboxes, frameless motors, linear actuators, micro DC motors, drive wheels.

Usage

Commonly used in aerospace, robotics, medical devices, automation systems, tracking systems, satellites and other precision industrial equipment.

Unique Features

Lin Engineering products are designed for high performance, low power consumption, low noise, low vibration, high accuracy & long life.



OMNETICS



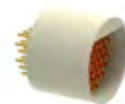
Offers miniature connectors with Mil-Spec and custom designs, providing secure and reliable connections in space-constrained environments.

Usage

Miniature connectors for aerospace and defense applications.

Unique Features

Mil-Spec and custom designs available, high-density contact layouts, secure locking mechanisms, and EMI shielding.



IEH



Known for high-density connectors with hyperboloid contact technology, ensuring robust signal integrity and reliability in moving parts.

Usage

High-density connectors for signal integrity in moving parts.

Unique Features

Hyperboloid contact technology for superior reliability, miniaturized form factors for space-constrained installations, resistance to shock, vibration, and environmental contaminants.



EMI SOLUTIONS



Specializes in EMI/RFI filtering solutions tailored to specific application requirements, ensuring high attenuation and compliance with military standards.

Usage

EMI/RFI filtering and suppression in electronic assemblies.

Unique Features

Customized solutions tailored to specific application requirements, high attenuation performance across wide frequency ranges.



MICROPOL



Provides fiber optic connectors that have expanded beam technology with high-speed data transmission capabilities and enhanced ruggedness.

Usage

Expanded beam fiber connectors for high-speed data transmission.

Unique Features

Low profile and lightweight construction, high reliability in extreme temperatures.



The logo for SynQor, featuring the word "SynQor" in a bold, black, sans-serif font. The "Q" is stylized with a red diagonal line through it.The logo for xsens by Movella. "xsens" is in a bold, blue, sans-serif font, and "by Movella" is in a smaller, red, sans-serif font below it.The logo for Diamond Systems. It features a stylized, multi-colored diamond shape to the left of the words "DIAMOND SYSTEMS" in a bold, black, sans-serif font.The logo for SAFRAN. It features a stylized blue "S" to the left of the word "SAFRAN" in a bold, black, sans-serif font.The logo for SECO, featuring the word "SECO" in a bold, black, sans-serif font.The logo for REI. It features a red circular icon with a white "R" and the word "RACING" inside, followed by the word "REI" in a bold, black, sans-serif font.The logo for PANLINK. It features the word "PANLINK" in a bold, black, sans-serif font, with the Chinese characters "奔联技术" (Bēn Lián Jì Shù) below it.The logo for ADVANCED MOTION CONTROLS. It features a red triangle to the left of the words "ADVANCED MOTION CONTROLS" in a bold, black, sans-serif font.The logo for Netzer Precision Motion Sensors. It features a stylized green "N" to the left of the word "Netzer" in a bold, black, sans-serif font, with "Precision Motion Sensors" in a smaller, black, sans-serif font below it.The logo for LIN ENGINEERING. It features a stylized blue "E" to the left of the words "LIN ENGINEERING" in a bold, black, sans-serif font, with "MOTOR SPECIALISTS IN MOTION" and "A MOONS COMPANY" in smaller, black, sans-serif font below it.The logo for OMNETICS. It features the word "OMNETICS" in a bold, blue, sans-serif font, with "CONNECTOR CORPORATION" in a smaller, blue, sans-serif font below it.The logo for IEH, featuring the letters "IEH" in a bold, green, sans-serif font, with a yellow underline.The logo for EMI SOLUTIONS INC. It features the letters "EMI" in a bold, red, sans-serif font, with "SOLUTIONS INC" in a smaller, black, sans-serif font below it.The logo for MICROPOL. It features a stylized blue starburst icon to the left of the word "MICROPOL" in a bold, black, sans-serif font.

Achieve Stability:
Newest Electronic Components for Gimbal & Turret Designs

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P O L A N D

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