

Beyond Standard

Most of our products are custom-made, designed, and produced for OEM.

Our customers' unique needs are embedded in our products.

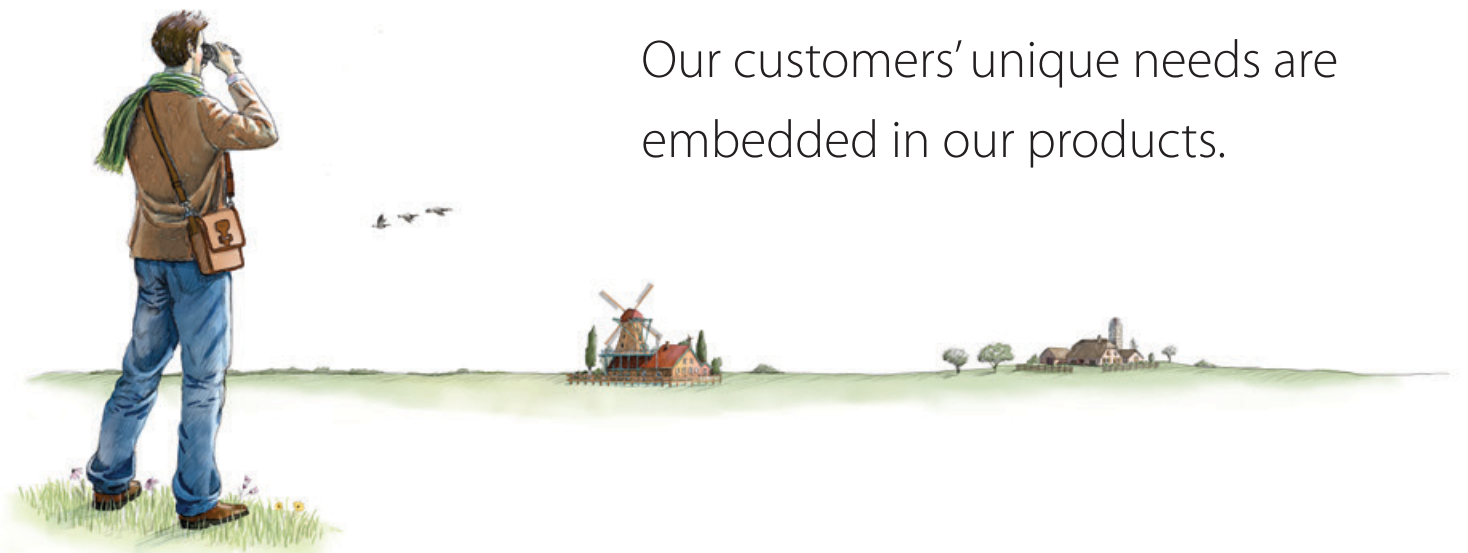
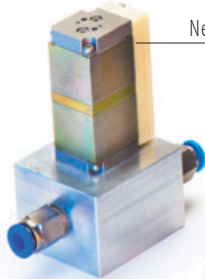


Illustration:
Mario Sermoneta
for Gevasol

VALVES

You have an innovative product, no wonder you need supporting solutions that are not off-the-shelf components. We enjoy making custom-made products for any fluid control application you may have.

High sensitivity
proportional
solenoid valve



Needle design



Vacuum control
manifold



Magnetic coupled
ball valve, leak tight



For CO₂ dispensing

Aerospace
modular manifold for oxygen



Low flow propor-
tional valve for
analytics



Balanced proportional
valve for gasses

3A certified



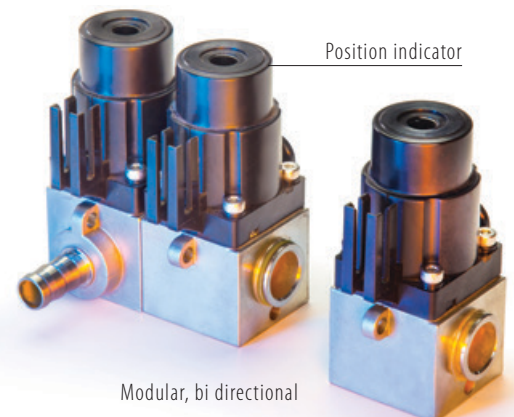
DN20 diverter

Air operated, hygienic valves,
sanitary design

Block-Bleed-Block valve
with position indication



Position indicator



Modular, bi directional

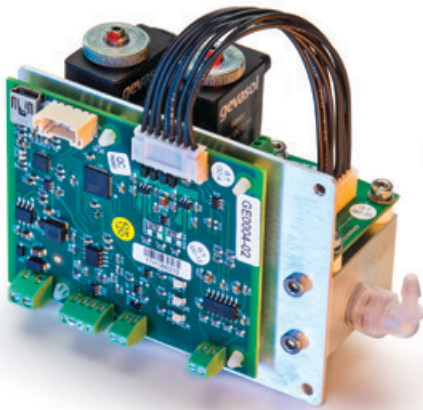
MECHATRONICS

Our strength is in integrating physics analysis into electronics design.

We study the intricacies of how a solenoid works.

We examine the magnetics, force interactions, and dynamics of movement.

Electronics then translate our understanding into useful functions such as valve position detection, damping, or high precision dosing.



I to P closed loop regulator for vacuum and small flow gas pressure. Customer configurable PID parameters

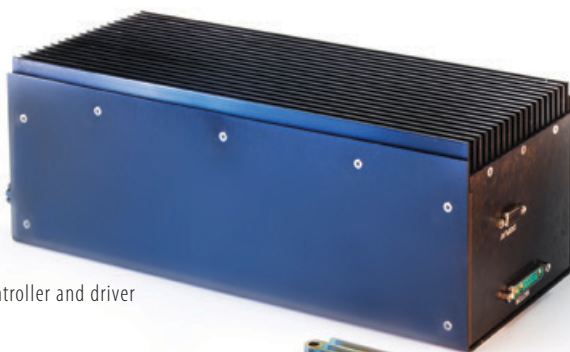


Precision flow controller and solenoid valves for liquid spraying

Up to 100 valves in series with integrated communication bus

MOTION CONTROL

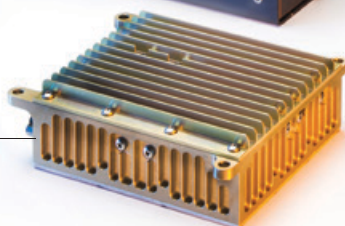
We develop systems for control/design, and process identification. These systems may be integrated into existing OEM controller environments; they allow for the automatic and semi-automatic feedback design of actuators with one or multiple sensors.



Speed controller and driver



Remote input



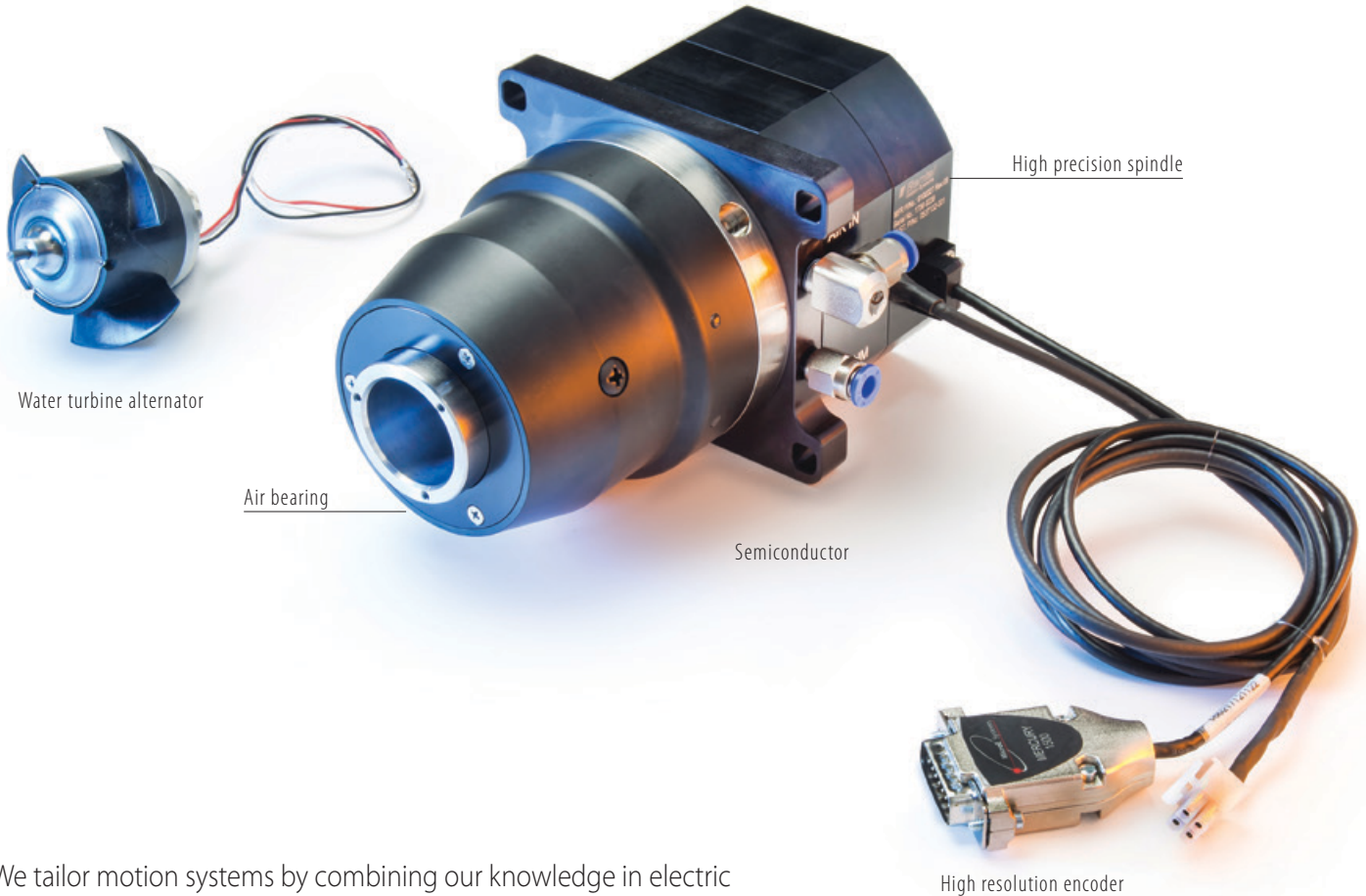
650 W airborne GCU



Speed control and drive

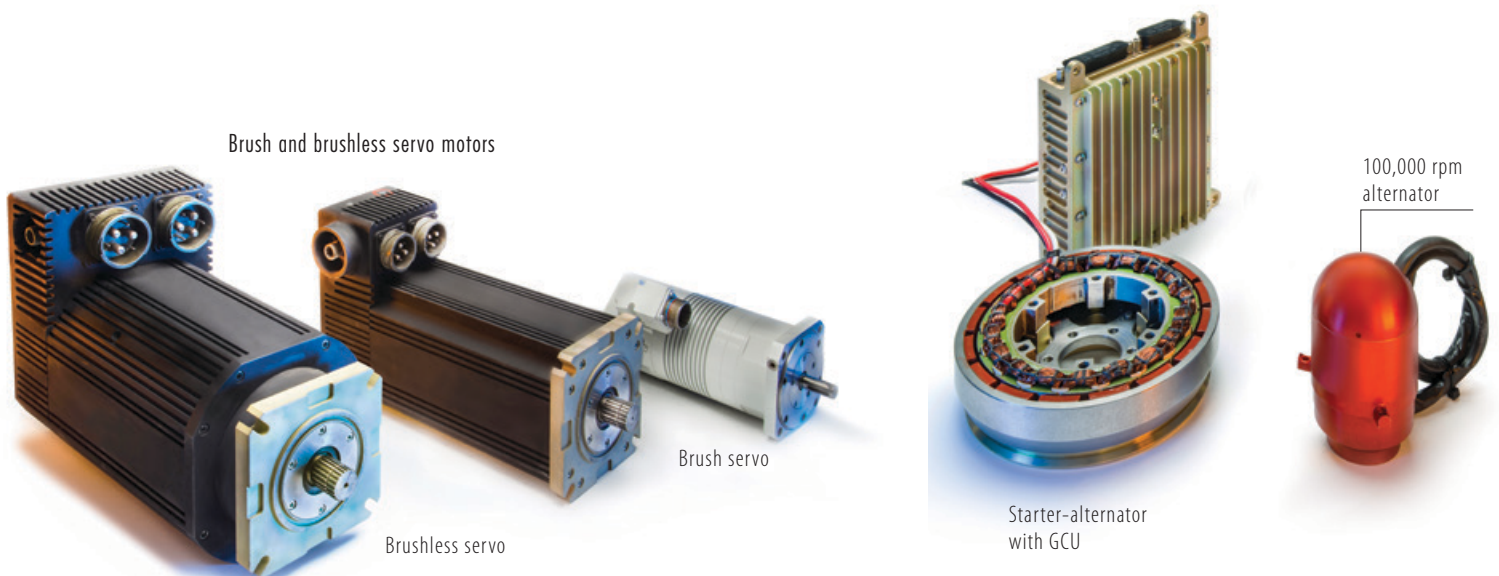
ELECTRIC MACHINES

Customized for demanding applications



We tailor motion systems by combining our knowledge in electric machines engineering with our vast manufacturing experience. We bring together a specific motor topology, the right materials, analysis of rotor dynamics, thermal motor behavior, structural strength, and bearings type to create a motor that is suitable for our clients' needs.

Airborne alternators and GCU
(Generator Control Unit)



SEALS & ROTARY SYSTEMS

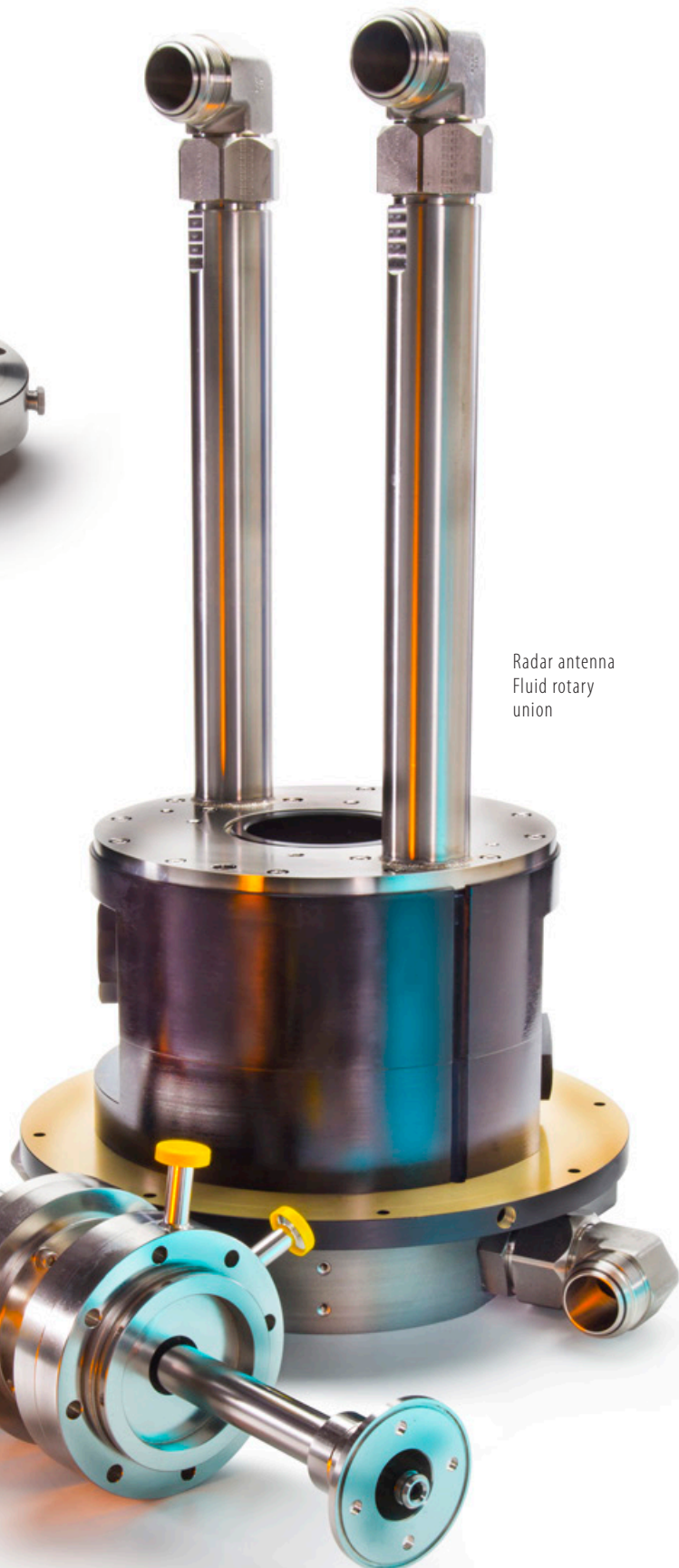
When reliability, safety, and leakage prevention are critical, we will design, manufacture, assemble, and test the performance specified seals and engineered rotary units you need.



Catalog and application specific cartridge seals



Application specific turbine and chemical cartridge seals

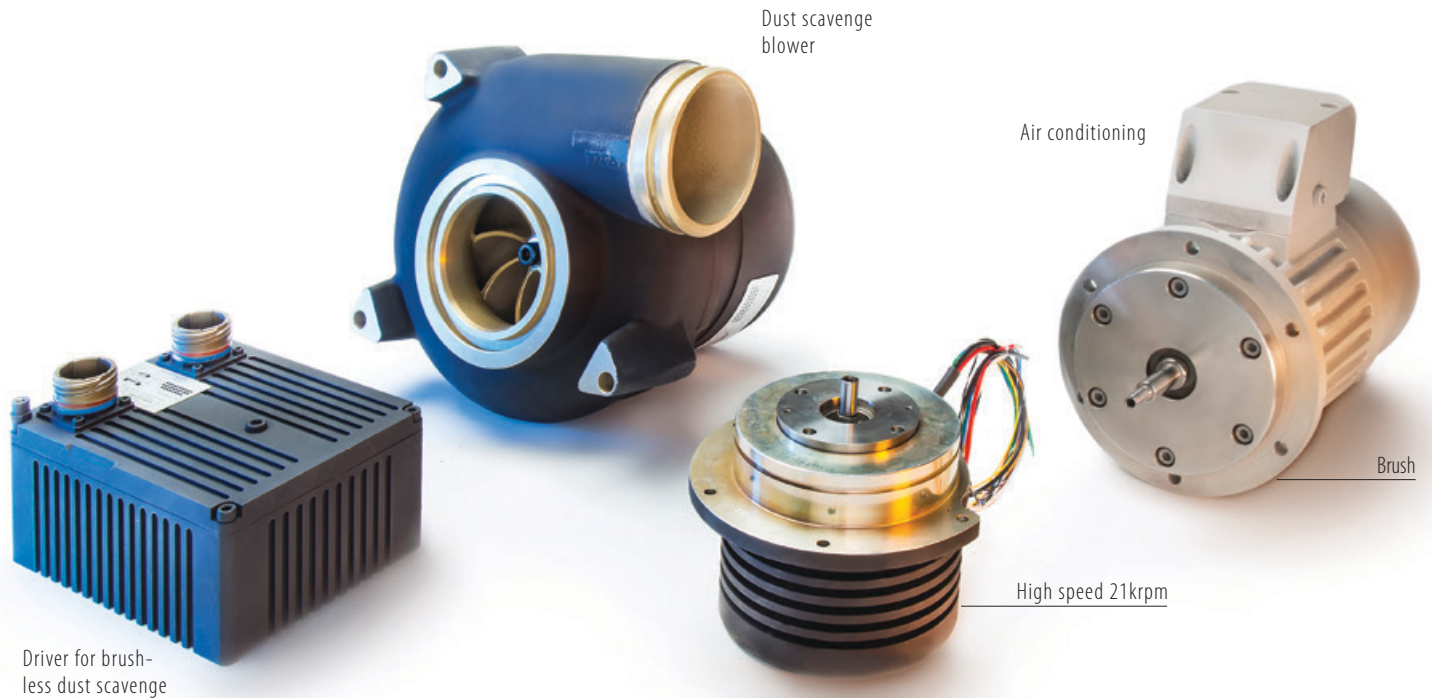


Radar antenna
Fluid rotary
union

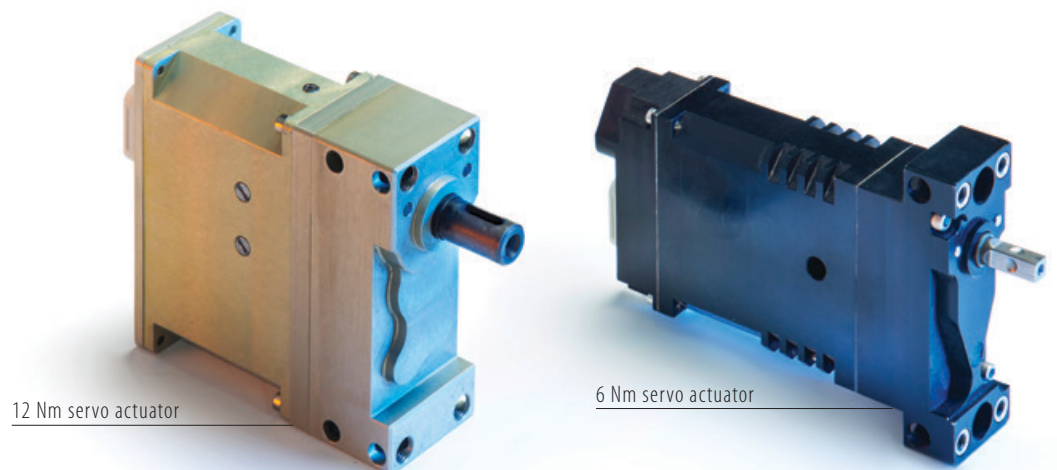
Bio-reactor
fluid rotary drive unit

ELECTRIC MACHINES

Dust scavengers, blowers, and blower motors for ground combat vehicles



Airborne servo actuators including brushless motor, Reduction Gear, output shaft position feedback, servo control, driver, and communication electronics in one lightweight package.



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