

ADVANCED MOTION CONTROL SYSTEMS

R&D /// TOOLING /// PRODUCTION /// TESTING



**MOTION IS ENERGY.
CONTROL IS ENGINEERING.**

Where power is transmitted, vibration is generated and structure is stressed – control becomes a critical function.

CORASRL.IT



WHAT WE ENGINEER

**We engineer motion.
We control vibration.**

We design, validate and manufacture high-performance rubber-to-metal systems engineered to transmit torque, control vibration and protect mechanical integrity in demanding dynamic environments.

From vehicle powertrains to marine propulsion and power generation systems, we engineer technologies around the dynamic behaviour of each application.

- **Patented flexible couplings**
- **Torsional vibration control**
- **Structural isolation**



FROM CONCEPT TO VALIDATION

About us

Since 1984, we have engineered rubber-to-metal systems for controlled motion. From flexible couplings and torsional vibration dampers to structural isolation systems, we develop solutions for OEM and aftermarket applications across automotive, off-highway, marine, power generation and industrial systems.



**DIFFERENT APPLICATIONS.
ONE ENGINEERING STANDARD.**

R&D AND ENGINEERING

Research, engineering, industrialization and validation.
One integrated process.

**Simulated before production.
Validated before delivery.**

- Concept, feasibility, reverse engineering and benchmarking
- Elastomer compound selection and rubber-to-metal interface design
- NVH tuning: natural frequency, dynamic stiffness, hysteresis and damping
- Dynamic simulation ahead of prototyping
- Functional prototyping, pre-series and iterative validation

New product development

We develop new products together with our customers, from initial concept to validated series production.

Our engineering focus: motion transmission, torsional damping, vibration control and structural isolation.

In-house testing & validation

We measure static and dynamic stiffness, fatigue, thermal cycles, accelerated ageing, hysteresis and natural frequency.

Performance is measured and validated in our own laboratory.

Patented technology

Two proprietary engineering platforms.

Our flexible coupling technology was patented in 1993 and awarded at the International Exhibition of Inventions in Geneva in 1999.

It has been continuously developed ever since.

Our viscous torsional dampers are based on our own proprietary construction for automotive, heavy-duty and industrial vibration control.

Developed. Protected. Industrialized in-house.



Supported by:

- R&D, tooling, production and testing on one site
- Over forty years of expertise in torsional vibration control
- Application-specific elastomer engineering
- OEM and aftermarket applications, one engineering standard
- ISO 9001 certification covering design and development — not manufacturing alone
- Performance measured and validated in our own laboratory

ENGINEERED FOR EVERY MOTION

ENGINEERING, END TO END

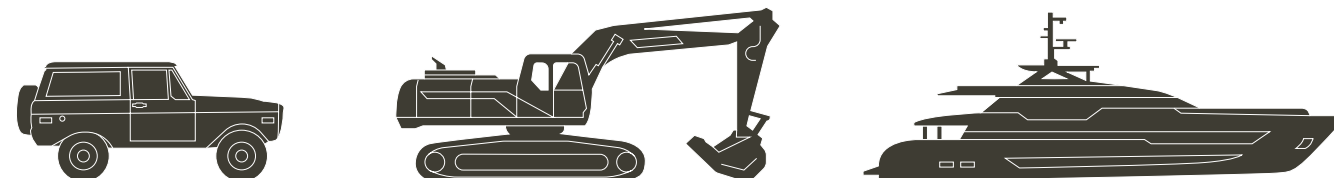
Two core technologies.
One motion control expertise.

Flexible coupling systems

for controlled torque transmission.

Torsional vibration damping systems

for controlling oscillations within rotating systems.



One engineering approach.
Multiple industries.

From automotive and off-highway to marine, power generation and industrial systems, we apply the same engineering principles across radically different operating environments.

ONE ENGINEERING STANDARD. OEM AND AFTERMARKET.

➤ **AUTOMOTIVE**

Torsional vibration dampers, DDS, viscous dampers and flexible couplings engineered for passenger cars, commercial vehicles and high-performance applications.

➤ **AGRICULTURAL & FORESTRY**

Flexible couplings and isolation systems engineered for tractors, harvesters and forestry machinery operating under demanding duty cycles, torque shocks and misalignment.

➤ **CONSTRUCTION & EARTH MOVING**

Couplings and isolation systems for excavators, loaders and earth-moving machinery operating under severe cyclic loads and high-shock conditions.

➤ **MARINE**

Flexible couplings, torsional vibration control and isolation solutions for propulsion systems, marine transmissions and auxiliary power applications.

➤ **POWER GENERATION**

Flexible couplings and torsional vibration dampers for generator sets and mission-critical power applications.

Two complementary technologies addressing different functions within the same dynamic system: controlling torsional vibration and transmitting torque through the engine-generator driveline.

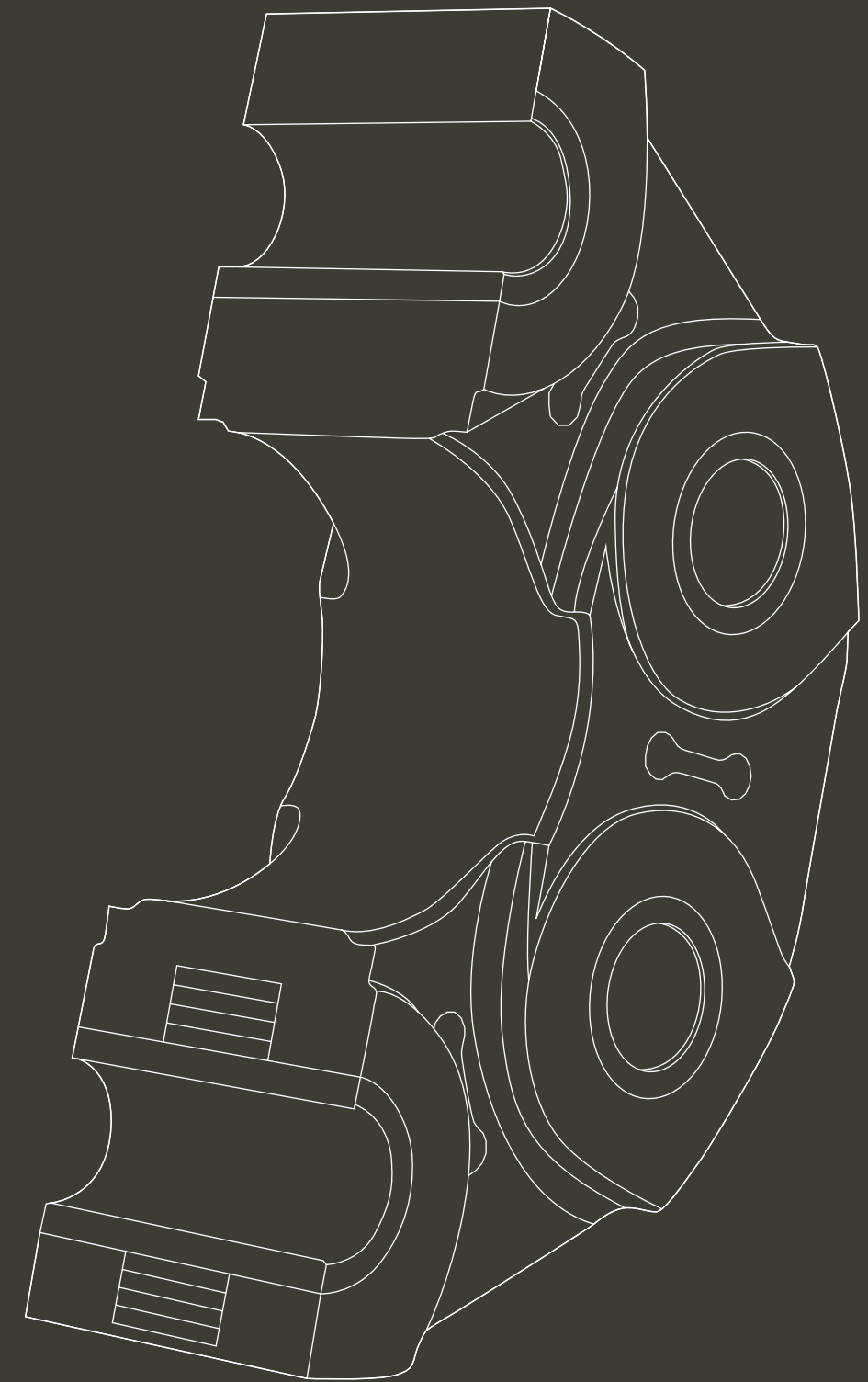
From industrial and standby gensets to **data center power generation**, we engineer around the dynamic requirements of the complete application.

➤ **INDUSTRIAL & ENERGY**

Motion and vibration control solutions for rotating machinery, industrial drives, energy equipment and auxiliary systems operating under demanding conditions.

➤ **POWER TRANSMISSION & SPECIAL APPLICATIONS**

Torque transmission systems and custom-engineered solutions for continuous-duty applications across industrial and mobile machinery.

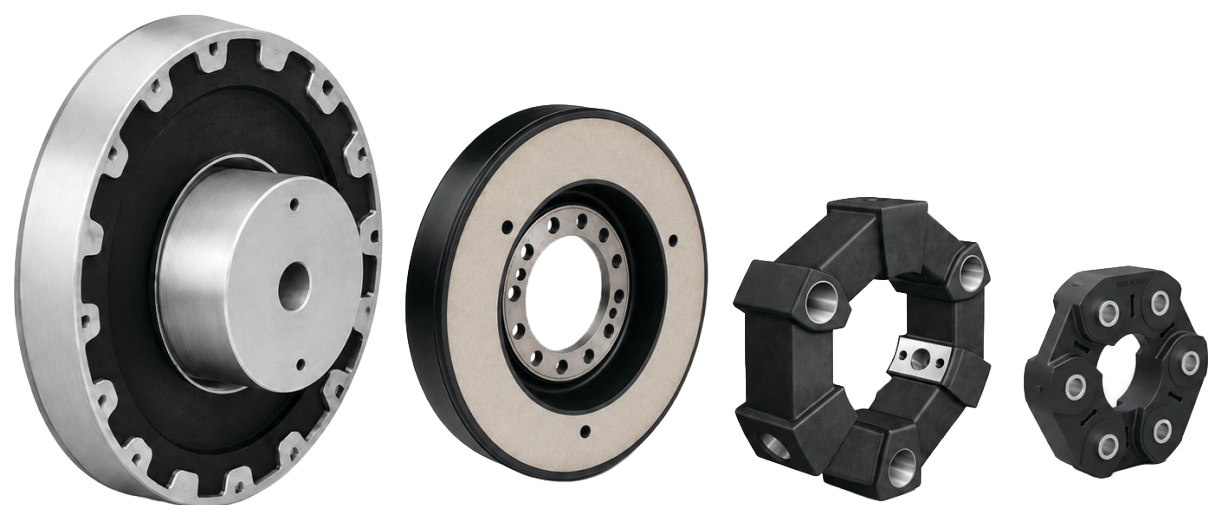


AUTOMOTIVE / AGRICULTURAL & FORESTRY / CONSTRUCTION & EARTH MOVING MARINE INDUS-
TRIAL / ENERGY & OIL-AND-GAS INDUSTRIAL / POWER TRANSMISSION & SPECIAL APPLICATIONS
/ AUTOMOTIVE / AGRICULTURAL & FORESTRY / CONSTRUCTION & EARTH MOVING MARINE INDUS-
TRIAL / ENERGY & OIL-AND-GAS INDUSTRIAL / POWER TRANSMISSION & SPECIAL APPLICATIONS

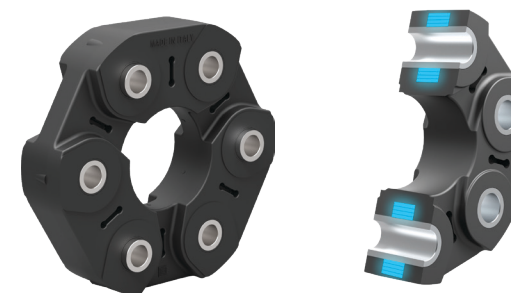
DISCOVER OUR PRODUCTS

FLEXIBLE COUPLINGS

CORA B
CORA T
CORA V
CORA S

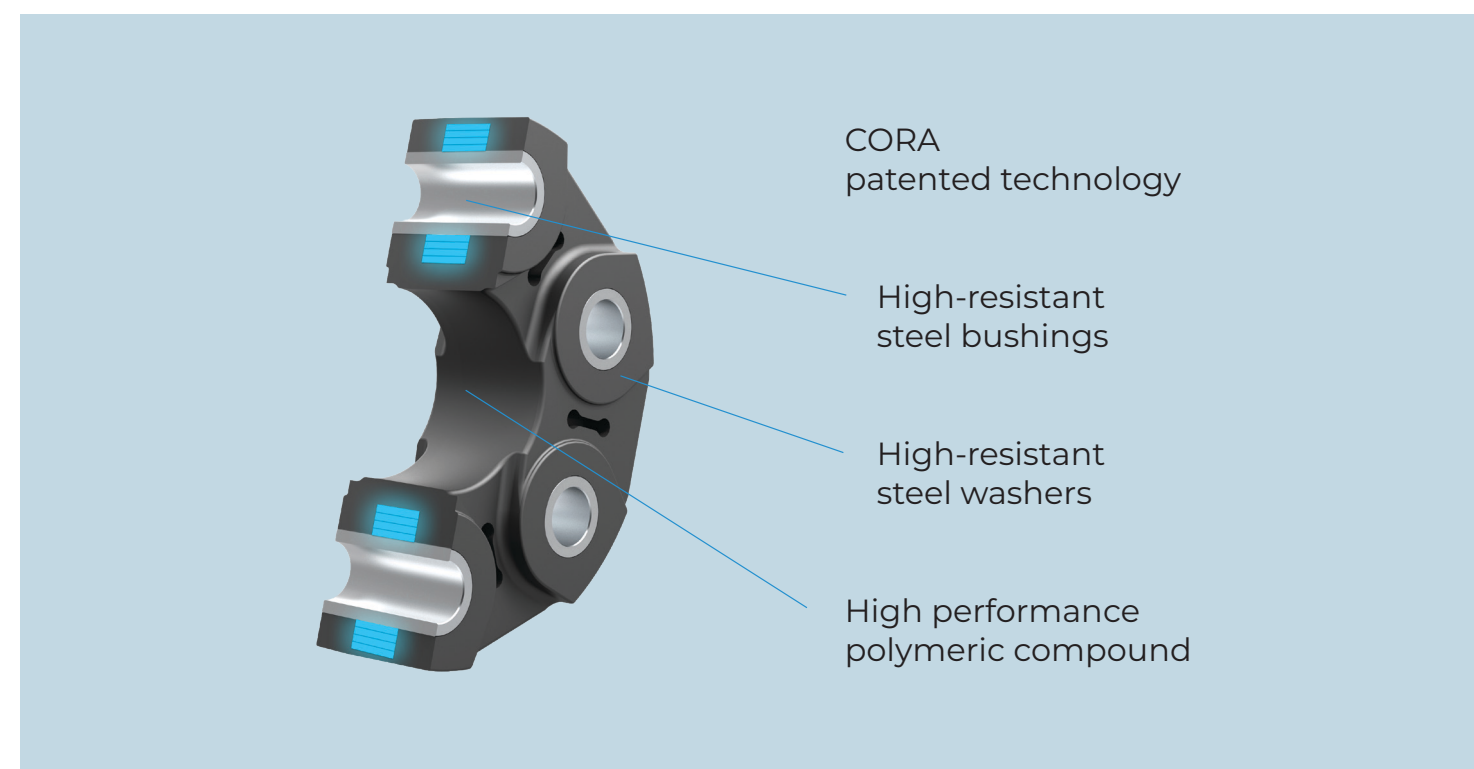


└ CORA B Base



Compact torque transmission with controlled elastic response.

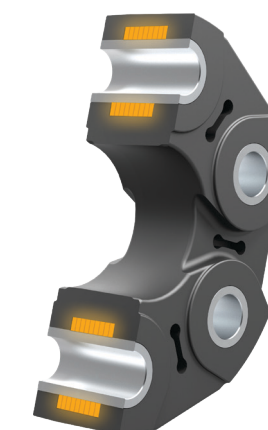
Engineered for stability under combined loads and repeated operating cycles.



One patented architecture.

Engineered to transmit torque while managing shocks, misalignment and vibration throughout rotating drivetrains.

From mobile machinery and marine propulsion to power generation, we engineer coupling characteristics around the dynamic requirements of the application.



✎ CORA T Transmission



Multidirectional flexibility for agricultural, industrial, marine, off-highway and power transmission applications.

Engineered to transmit torque while accommodating axial, radial and angular misalignment.

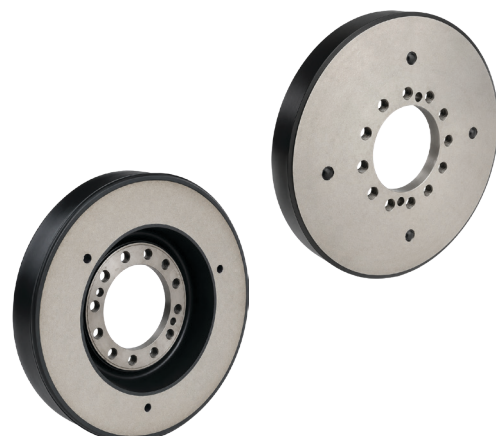
✎ CORA V Vibration



High torsional flexibility combined with effective vibration damping.

Engineered for applications where torque transmission and torsional behaviour must be controlled together, including **power generation, marine propulsion and heavy-duty rotating systems.**

✎ CORA S Speed



Engineered for high-speed test environments where ultra-low torsional stiffness and precise dynamic decoupling are critical.

Elastomer hardness allows torsional characteristics to be tuned to the application. Combined with CV joints, slip joints, flanges and custom adapters, CORA S becomes part of modular high-speed shaft systems for development and end-of-line testing.

TORSIONAL VIBRATION CONTROL SYSTEMS

TORSIONAL | VIBRATION | CONTROL | SYSTEMS



Control the oscillation. Protect the system.

We engineer damping technologies to control torsional oscillations, reduce dynamic loads and protect mechanical integrity. From automotive powertrains to heavy-duty engines and power generation applications, torsional behaviour is part of the system — and must be engineered accordingly.

TVD | DDS | PATENTED VISCOUS DAMPERS

TV Torsional Vibration Damper



Tuned elastomeric damping engineered around the crankshaft's critical frequency.

A core technology across passenger-car, commercial-vehicle, heavy-duty and applicable power generation systems.

DD Double Damping System



Two damping stages integrated into one unit.

Engineered to control two resonance modes simultaneously in powertrains with complex torsional behaviour.

PATENTED Viscous Damper



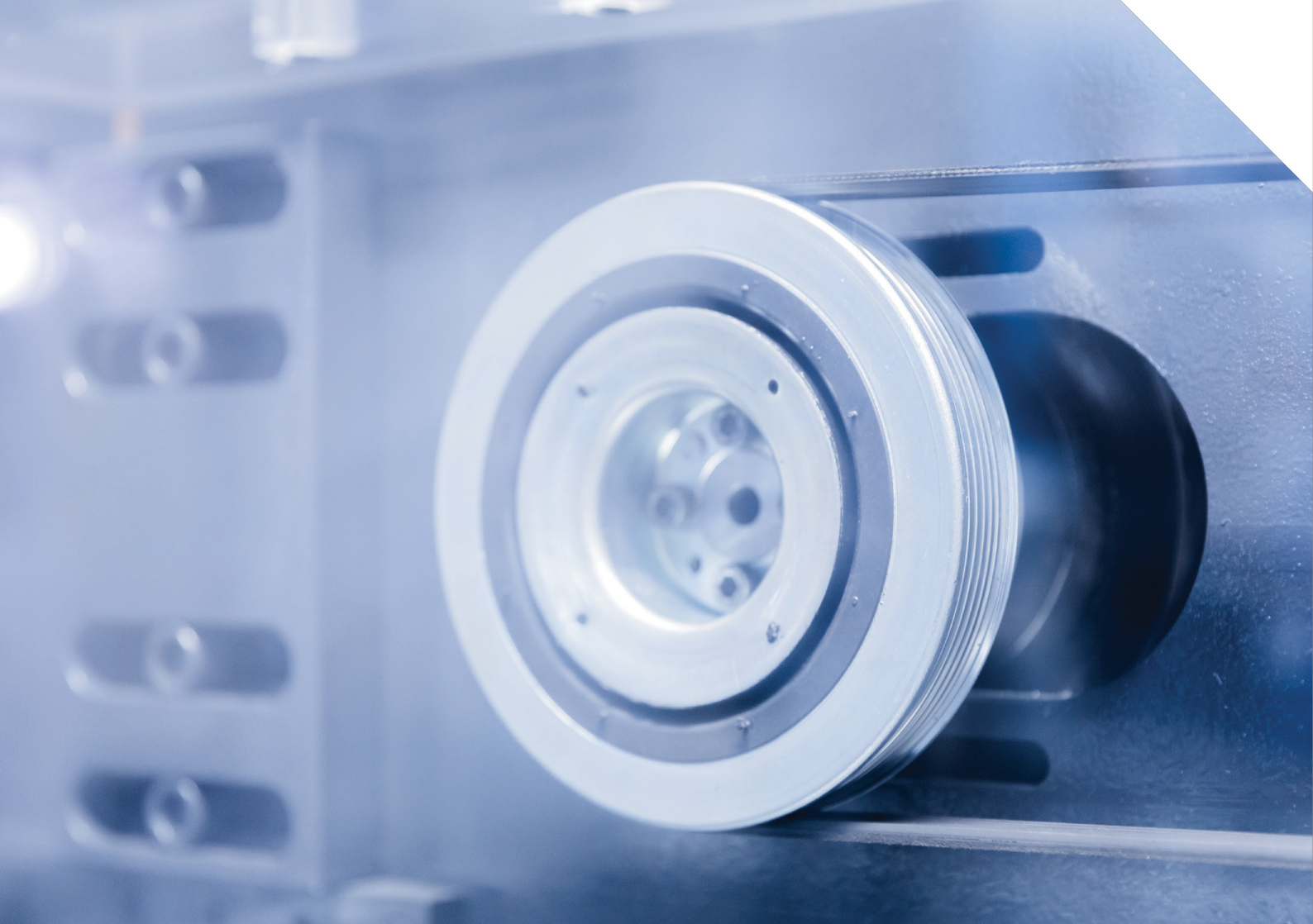
Silicone-fluid damping based on our proprietary construction.

Broadband torsional vibration control for heavy-duty and industrial engines operating across demanding speed and load ranges.

DIFFERENT
ARCHITECTURES.
THE SAME
ENGINEERING
CHALLENGE:

CONTROL
TORSIONAL
VIBRATION
BEFORE
IT BECOMES
MECHANICAL
STRESS.

TORSIONAL VIBRATION CONTROL SYSTEMS / TORSIONAL VIBRATION DAMPER / DOUBLE DAMPING SYSTEM / VISCOUS DAMPER / TORSIONAL VIBRATION CONTROL SYSTEMS / TORSIONAL VIBRATION DAMPER / DOUBLE DAMPING SYSTEM / VISCOUS DAMPER / TORSIONAL VIBRATION CONTROL SYSTEMS / TORSIONAL VIBRATION DAMPER / DOUBLE DAMPING SYSTEM / VISCOUS DAMPER / TVD

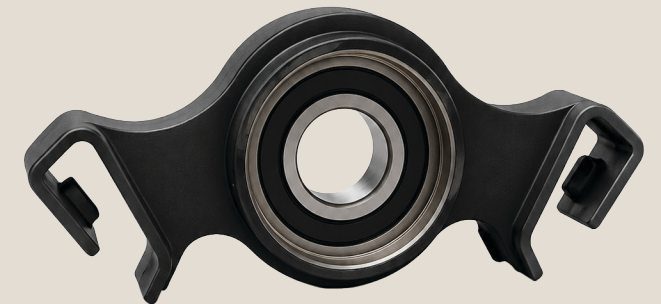


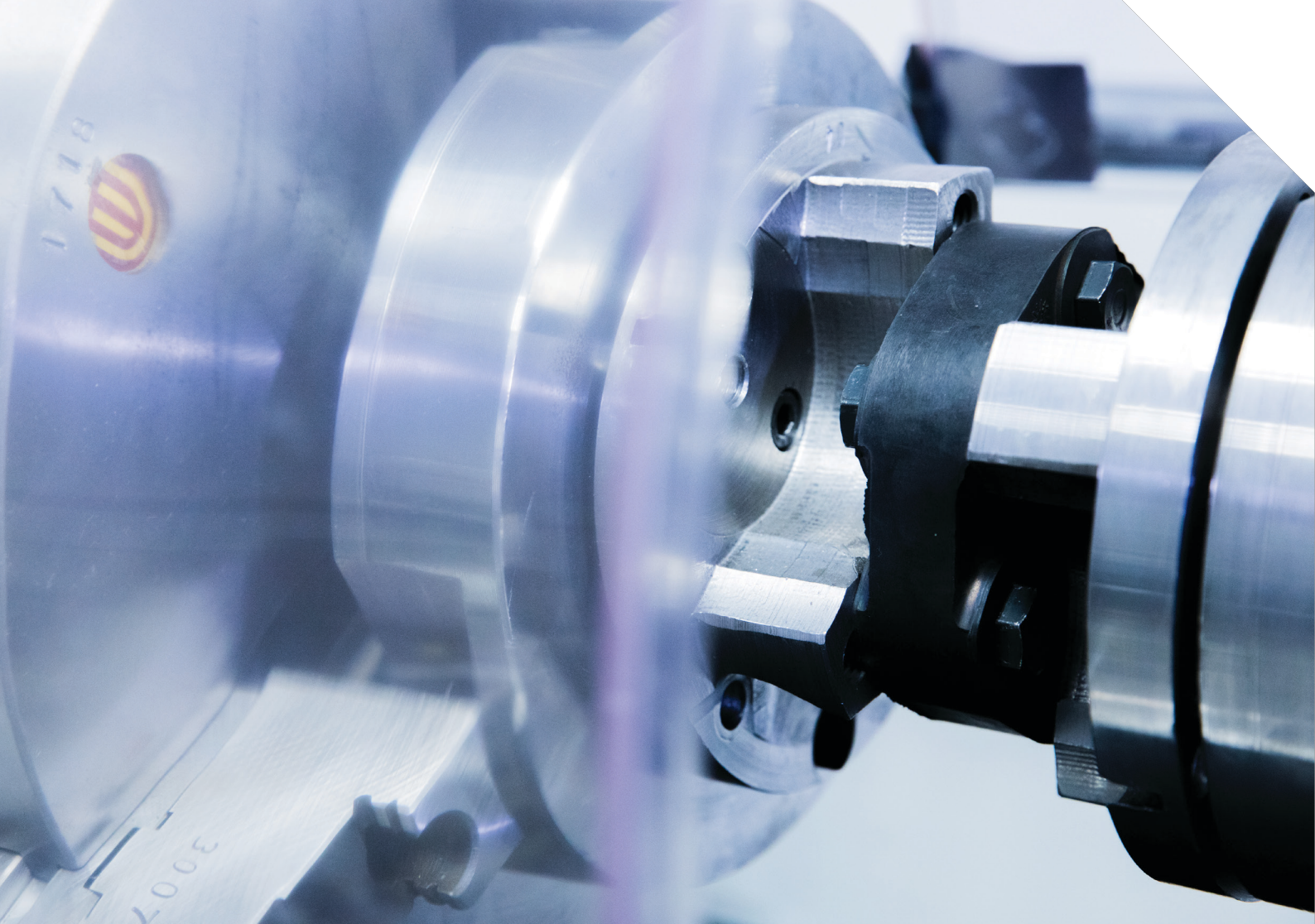
STRUCTURAL ISOLATION

Structural Isolation Systems DECOUPLE | PROTECT | STABILIZE

Rubber-to-metal systems engineered to isolate vibration, decouple assemblies and protect structures under demanding operating conditions.

From water-pump pulleys and transmission mounts to silent blocks, subframe and cabin isolation systems — including custom-engineered solutions for severe-duty applications.





QUALITY

Performance must be measured.

Traceability, in-process control and internal validation throughout the production cycle.



- Static and dynamic stiffness.
- Hysteresis.
- Natural frequency.
- Fatigue.
- Thermal cycles.
- Accelerated ageing.

We validate performance in-house across our rubber-to-metal technology platforms.

Our ISO 9001 certification extends beyond manufacturing to design and development.

ENGINEERED. TESTED. VALIDATED.

Let's engineer your next solution

From an existing application to a completely new engineering challenge, bring us the geometry, torque, vibration targets and operating conditions.

From automotive and off-highway to marine, power generation and industrial systems, we develop around the dynamic requirements of the application.

We turn requirements into validated solutions.

Certified throughout the entire process

Design. R&D. Industrialization. Manufacturing. Testing.

One integrated process under certified management systems.



ISO 9001:2015

Design, Development & Manufacturing



ISO 14001:2015

Environmental Management



ISO 45001:2018

Occupational Health & Safety



LEGALITY RATING

Awarded by the Italian Competition Authority (AGCM) for ethical, legal and organizational compliance.



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