DATWYLER

BRAKE SYSTEMS

POLYMER COMPONENTS FOR BRAKE APPLICATIONS

LEADING SUPPLIER FOR THE MOBILITY INDUSTRY

Datwyler focuses on high-quality, system-critical polymer components and has leading positions in attractive global markets such as mobility, healthcare, oil & gas, food & beverage and general industry.

>500
global customers and innovation leaders

24
manufacturing sites

6,700
talents worldwide

80 million
components produced per day

1'000 million
CHF in annual revenues

Thanks to its core competencies solution design, material expertise, and operational excellence, Datwyler supports and assists its customers at every stage of the process – from early development through to serial production of molded parts, components molded onto metal or plastic, and O-rings with specific requirements.

Datwyler's Core Competencies

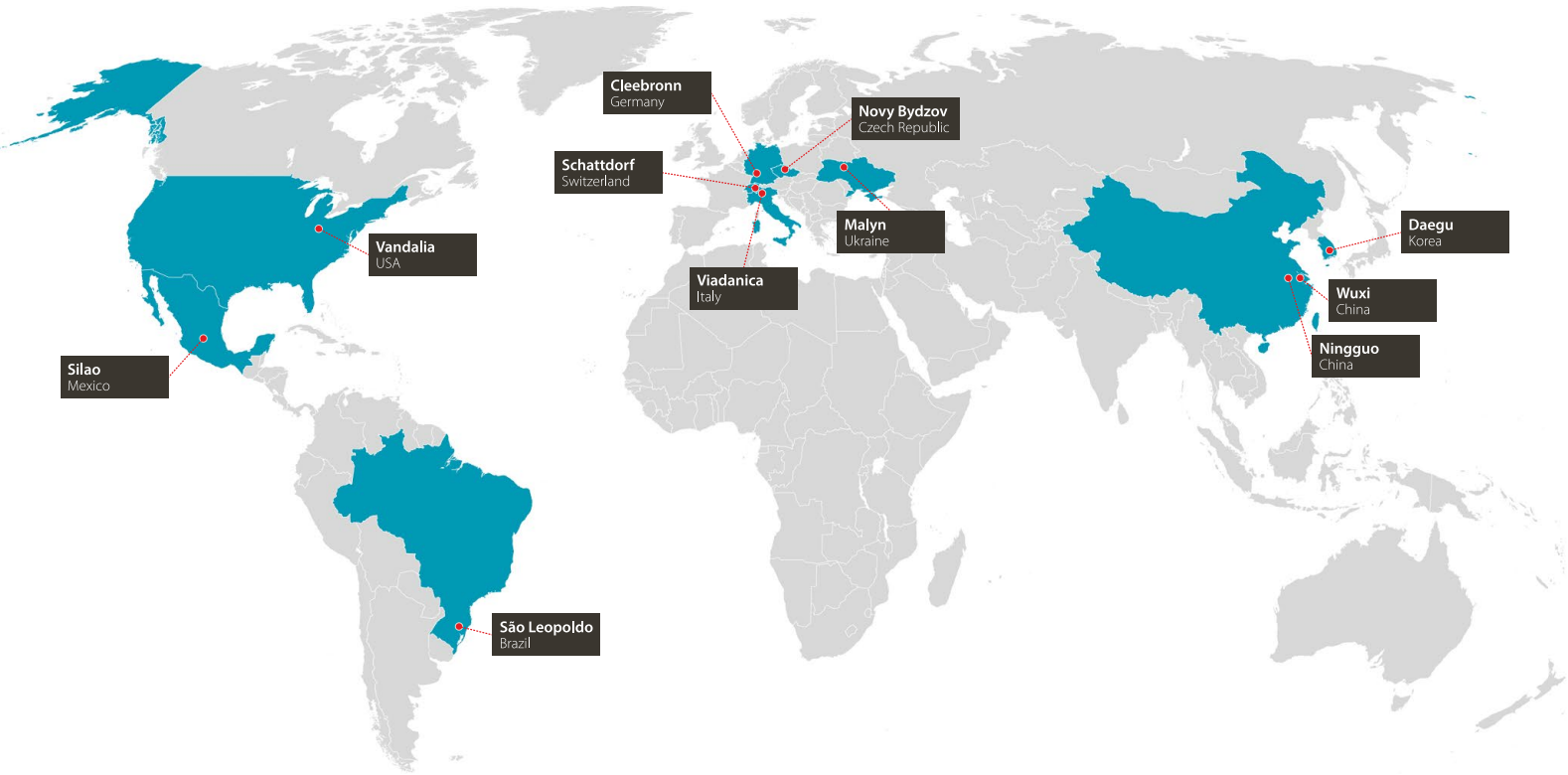
Datwyler supports its partners to promote a mobility that is safe, intelligent, and sustainable

SUSTAINABLE AND RELIABLE

Datwyler maintains a sustainable management approach and acts as a reliable partner in its social and environmental responsibilities. This is reflected in its membership of the UN Global Compact. Datwyler also has public targets for reducing the relative consumption of natural resources per unit of sales. With the EcoVadis audit, the company makes its corporate social responsibility and sustainability activities available to its customers in a standardized way.

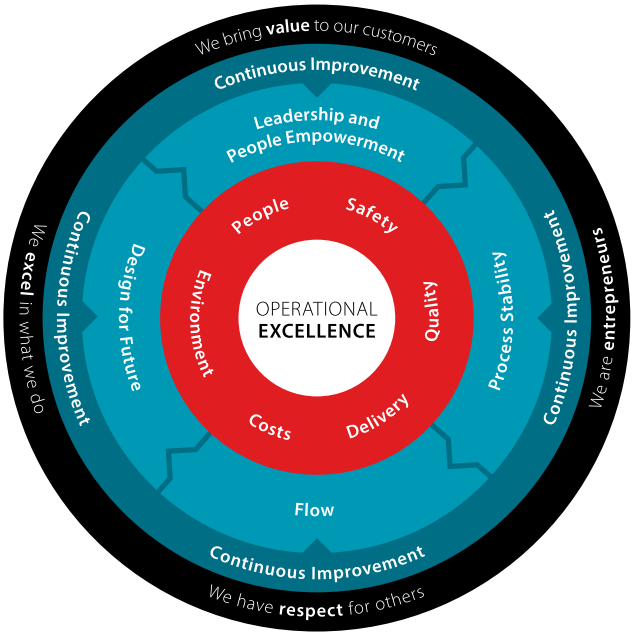
MOBILITY GLOBAL FOOTPRINT & SERVICES

With 11 strategic locations across key mobility markets including Europe, Asia, South America, and the NAFTA region, Datwyler's state-of-the-art production sites guarantee the highest levels of service, expertise, and flexibility, exactly where its customers need it. Datwyler's global set-up of modern mixing facilities ensures processed compounds of the highest quality.



BEST-IN-CLASS PROCESSING

The Datwyler Production System (DPS) ensures Datwyler produces best-in-class sealing solutions that meet the highest industry standards. Dedicated DPS professionals drive continuous improvement within Datwyler's production processes, allowing Datwyler to guarantee the highest quality with short lead times, to deliver with maximum efficiency. From state-of-the-art factory designs and layout to reliable and future-proof technologies, all processes are monitored and scrutinized to the highest possible degree.

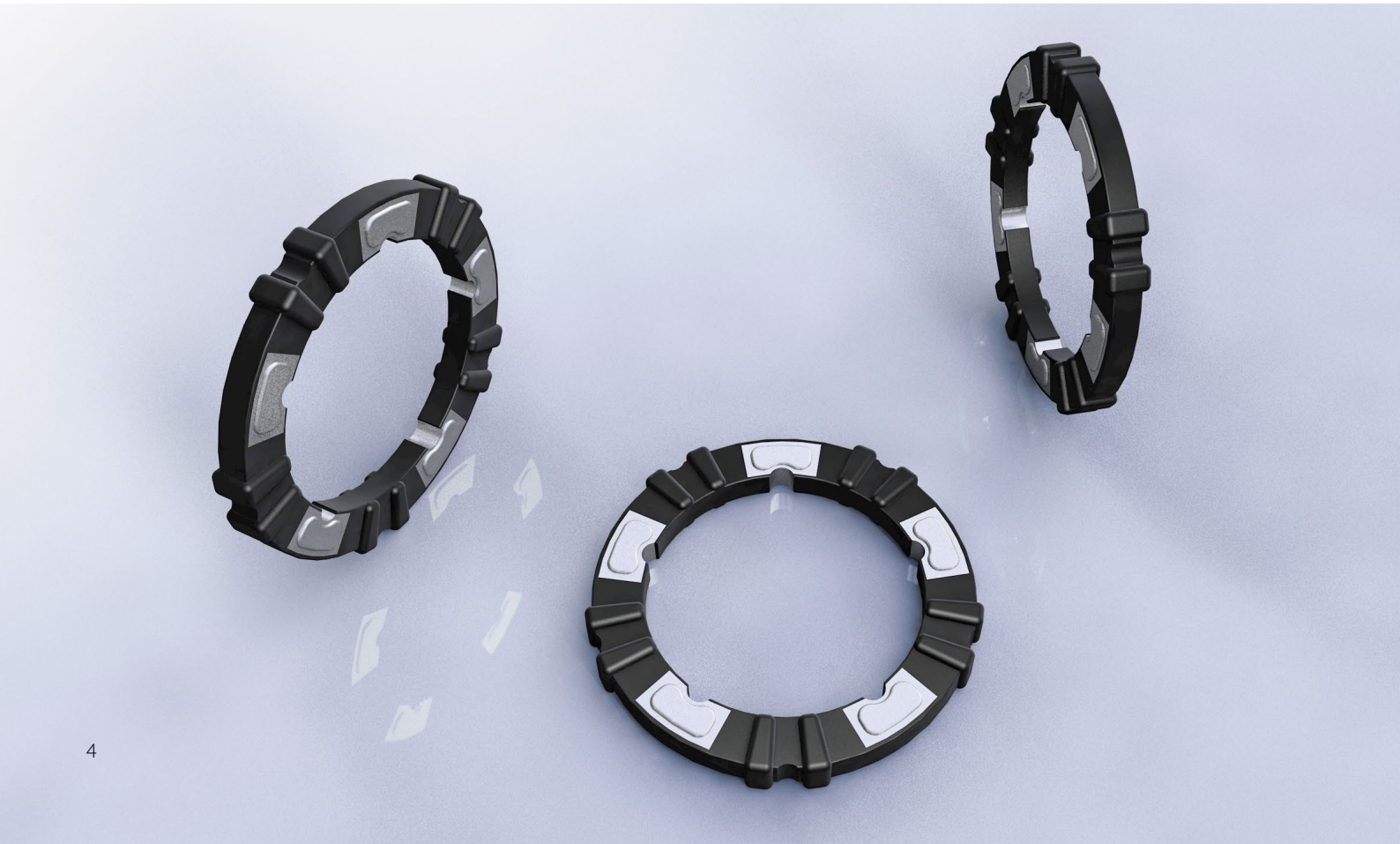


Datwyler Production System (DPS)

HIGH-PERFORMANCE COMPONENTS FOR BRAKE SYSTEMS

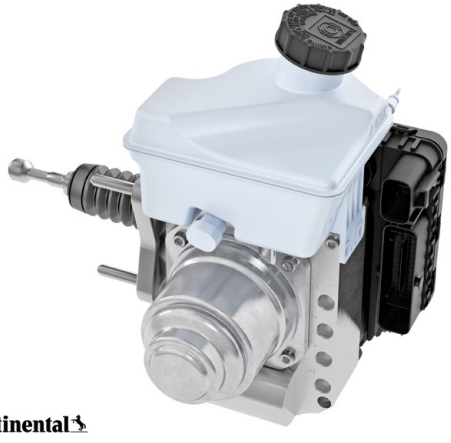
In-depth expertise in brake systems enables Datwyler to produce high-performance polymer components for use in a wide range of temperatures and pressure. Meeting the highest safety standards, Datwyler's system-critical brake components are characterized by mechanical-dynamic stability, resistance to high and low temperature and media for maximum durability.

Components for brake systems cover numerous applications for actuation such as vacuum brake booster and EHB (electrohydraulic brake booster). Datwyler is also a global leader for components used in foundation, EPB (electric parking brake), as well as in future-oriented technologies like brake-by-wire.



CO-ENGINEERING FOR FUTURE BRAKE TECHNOLOGIES

The brake technology has evolved and will continue to do so. The evolution into the electrohydraulic booster (EHB) technology has largely been driven by the move towards the electrification of vehicles and the increasing amount of advanced driver assistance systems. Regarding electric vehicles (EV), EHB is a natural fit, particularly given there is no internal vacuum creation that is required for the vacuum booster.



Continental's EHB MK C1, where Datwyler's high-performance polymer components are integrated, is one of the leading electrohydraulic brake systems

DATWYLER'S ADVANCEMENT IN SEALING APPLICATIONS ENABLES THE USE OF SENSORS FOR STREAMLINED PRODUCTION AND TRACKING

The traceability of parts via smart sealings – for example with embedded sensor technology – could expedite a product recall if required, minimizing the safety impact and potential reputational damage a brand could suffer. Sensors could also be used for predictive maintenance purposes in the future, along with providing solutions relating to authenticity that could combat counterfeiting and ensure parts are from the original manufacturer. Not least, Datwyler's sealing solutions designed and co-engineered specifically for purpose in these new applications will provide the highest levels of quality and integrity, ensuring the safe operation of the brake system throughout its lifetime.

Thanks to close and trustful engineering relationships with market leaders over decades, Datwyler is the right partner for future-oriented brake systems and already involved in numerous projects.

Things move fast, and the industry is already seeing the emergence of brake-by-wire technology. This is considered to be the next level after EHB, and the main component differences are that there are no brake fluids within the system, meaning it will be smaller still when compared to EHB. The parts and their associated components will be even more sophisticated, there will be a very high focus on precision molding and a move towards automated processes.

With the supply of system-critical components for brake systems, Datwyler makes an important contribution to the road safety worldwide.

LEAN & CLEAN PRODUCTION LAYOUT IN SWITZERLAND

To meet the significantly increasing requirements of the mobility industry, Datwyler developed the new production layout "Lean & Clean" in Schattdorf, Switzerland, in order to minimize the residual dirt and contamination of the production processes and parts. Focusing on highly automated processes, Datwyler is a first-class supplier for products with demanding requirements on technical aspects, safety, quality, and cleanliness, from in-house prototyping to serial production.

Datwyler assists its customers to meet the highest industry standards

KEY PRODUCTS

Components for brake systems include seals and dampers like dust boots, bushings, primary and secondary seals, O-rings, piston seals, and diaphragms. Materials include EPDM, FKM, SBR, HNBR, AEM, and silicon materials.

DATWYLER HELPS ITS CUSTOMERS TO SHAPE NEW MOBILITY – NO MATTER WHAT THE FUTURE HOLDS

As a leading global supplier of high-performance polymer components, Datwyler helps its partners to swiftly address emerging opportunities to shape the future of mobility with:

INNOVATION & DESIGN

- Advanced materials
- Customized design and simulation services
- Advanced technologies
- Global network of technology leaders

MANUFACTURING EXCELLENCE

- Best-in-class processing
- Global footprint and services
  (Europe, Asia, South America, and the NAFTA region)
- Broad range of technologies

HIGH-PERFORMANCE COMPONENTS

- Emission reduction systems
- Electrification
- Advanced driver assistance systems
- Brake systems
- Powertrain
- Fuel systems
- Comfort systems

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