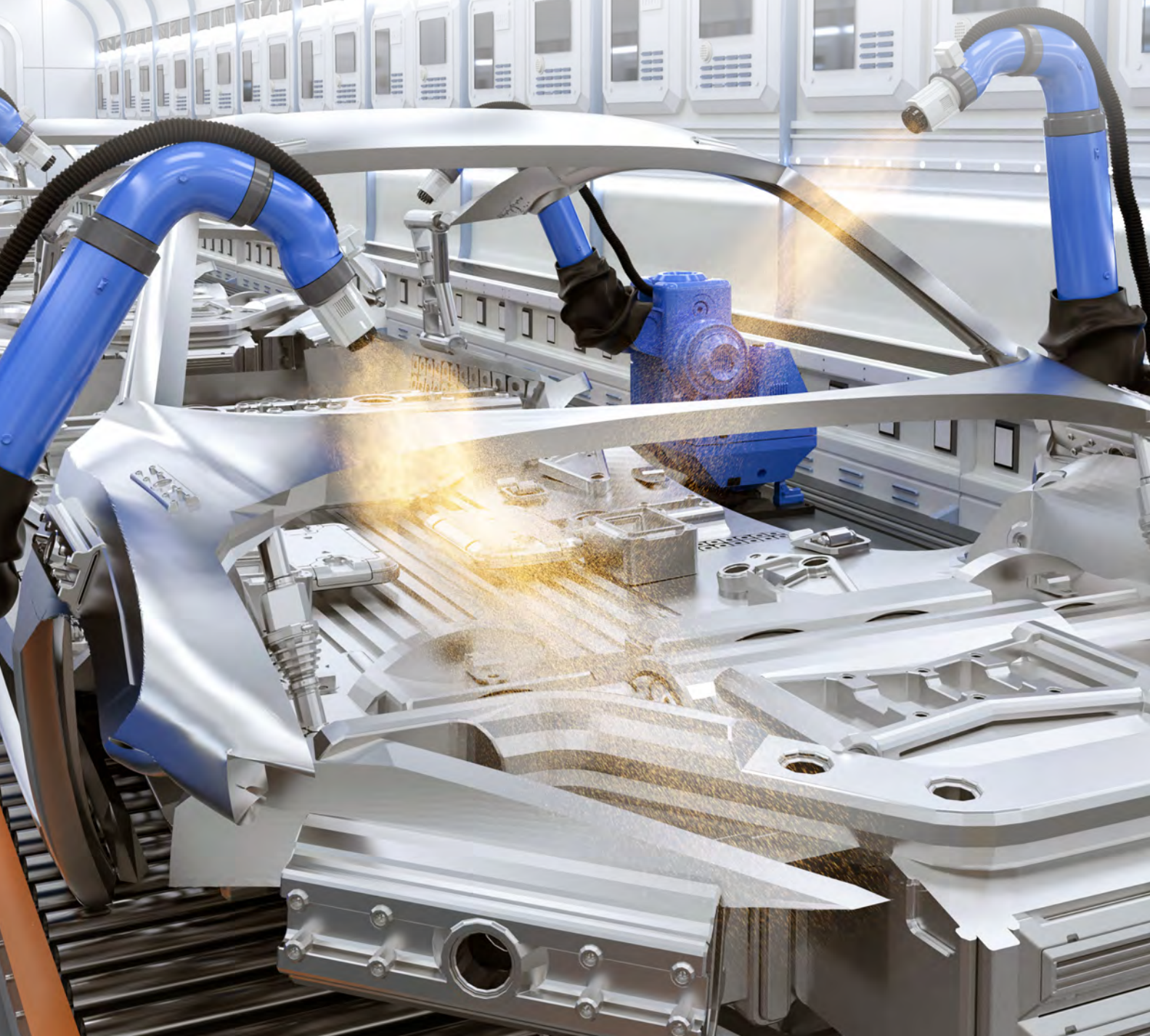


DISPENSING AND SPRAY EQUIPMENT

HIGH PERFORMANCE SEALING SOLUTIONS



DISPENSING SYSTEMS

Dispensing systems are used in various industries to economically bond or glue parts together or encapsulate items for protection. They can take different forms, from simple tabletop devices to more advanced robotic equipment.

Effective seals are needed in the pumps and metering components to ensure proper system performance. Specially tailored sealing devices are also essential for extending service life.

Challenges

Heat and high pressure: Conveying and metering adhesives take place at high pressure to overcome fluid viscosities. Heat may be employed to allow media to flow more easily.

Damaging leakage: Glue can harden and result in damage to critical components. Some operators will use plasticizers to prevent glue from hardening. If not sealed appropriately, plasticizers can present a safety hazard. Intermittent use of cleaning agents can also result in chemical attack to the sealing components.



Solutions

Chesterton® sealing solutions combine innovative concepts with chemically resistant materials and abrasion-resistant profiles. Coupling thermoplastic technologies and application-optimized components, we can provide high performance products to meet the needs of dispensing system applications.



SPRING-ENERGIZED SEALS (SES):

- Durable thermoplastic jacket provides low-friction performance
- Corrosion- and chemical-resistant metal spring helps create uniform loading
- Single point profile yields high sealability and can be optimized to double as a scraper
- Seals are designed to fit existing equipment
- High-pressure reciprocating action across a wide temperature range

Meet High Pressure Sealing Challenges with Confidence

Chesterton is the reliable sealing solution provider for customers across multiple industries.

SPRAYING SYSTEMS

Spray equipment, used to apply paint and other coatings that provide protection against corrosion, erosion, and other potential damage, requires robust seals for optimal equipment performance.

Effective seals are needed to ensure proper function and extend service life.



Industries Served

- Automotive
- Medical
- Electronics
- Aerospace
- Industrial

Challenges



High pressure: Paint and other coatings are pushed through systems at a relatively high pressure by a reciprocating pump. If not appropriately sealed, equipment failure can occur as a result of leakage.

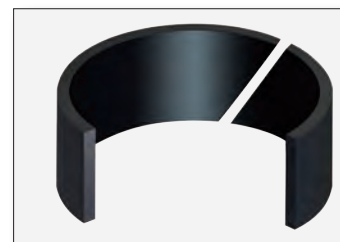
Product buildup: Paint can build up internally in the pump, resulting in low product flow and may result in unintended rod and cylinder scoring. Seals must be able to resist chemical attack from the solvents used to flush the system and keep it functioning longer.

Solutions

Chesterton seals provide high pressure and abrasion resistance with chemical compatibility. Our design philosophies and high-end materials allow us to help your equipment work longer.

WEAR RINGS:

- Helps prevent metal-to-metal scoring and helps prolong equipment life
- Reduces radial misalignment and provides extended life
- Design can be split for ease of assembly
- Thermoplastic material helps optimize load capacity and yields low-friction performance



Chesterton Sealing Solution Benefits:

- Improved process reliability
- Decreased downtime
- Accurate dosing and precision control
- Increased mean time between maintenance (MTBM) intervals

CHESTERTON ADVANTAGES:

Responsive Engineering

- Applications Expertise
- Finite Element Analysis (FEA) Support
- Engineer-to-Engineer Contact
- Custom Solutions



Flexible Manufacturing

- Large Range of Profiles and Diameters
- Fast Prototyping
- Short Lead Times
- Quick Delivery



A Reliable Partner

- Personalized Service
- Dedicated Sales Engineers
- Value-Driven Solutions



Global Solutions, Local Service

Since its founding in 1884, the A.W. Chesterton Company has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 113 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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