

LOCTITE

Henkel's Solutions for the Elevator Industry



Henkel



Global Leadership

Henkel is the global leader in brands and adhesive technologies with the widest product range sold through an extensive sales and distributor network.

Cost Savings & Reliability

Our solutions are more cost efficient and create competitive advantages for our customers.

Value-Added Partnership

Our experienced team of engineers provide the support needed in developing reliable and sustainable solutions.

Superior Product Performance

Henkel's adhesives, sealants, and surface treatments are recognized as the best performing products in the industry.

End-User Training

We provide professional training programs to customers enabling them to identify opportunities and improve process efficiency, quality and costs.

Henkel has the world's leading brands of industrial adhesives & sealants covering the widest scope of applications. Our solutions reduce cost and increase reliability.

Sustainability

Achieving more with less

Our commitment to leadership in sustainability is deeply embedded in our values. With our Sustainability Strategy for 2030, we are building on our strong track record. At the same time, we are aiming to address one of the central future challenges: to decouple growth from resource consumption. At the heart of this strategy is therefore the simple, yet challenging, ambition: to achieve more with less. It aims to create more value for our customers, consumers, communities and the company alike, while simultaneously reducing the impact on our environment.



The Solution Partner for the Elevator Industry



Henkel products offer reliable and sustainable solutions for the whole elevator life cycle



▶ DESIGN



▶ MANUFACTURING



▶ INSTALLATION



▶ SERVICE

CUSTOMER BENEFITS

- More efficient elevators through significant weight reduction
- Optimized manufacturing processes
- Innovative and sustainable solutions for safer elevator factories
- Increased reliability, reducing repair time, labor cost and downtime
- Overall cost reduction

Henkel's expertise in the elevator industry helps customers improve their products' performance and achieve cost savings in their manufacturing plants. Henkel's solutions are extensively used in every stage of the elevator life cycle by:

- Allowing ecological, innovative and appealing designs with a broader choice of shapes and materials
- Reducing manufacturing costs and improving workers' health and safety during assembly
- Offering installation alternatives that contribute to a more reliable elevator operation
- Reduces repair time, labor costs and downtime

HENKEL'S SOLUTIONS

CARS AND DOORS
Assembly and Finishing

TRACTION DRIVES
Construction and Assembly

METAL STRUCTURES
Surface Protection and Rust Prevention

ELEVATOR SUB-COMPONENTS

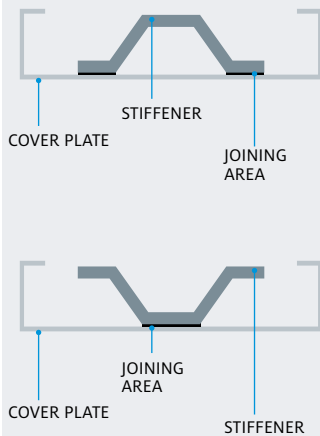
CARS AND DOORS



Assembly and Finishing

STIFFENER DESIGN

Example of two typical panel configurations using bonded stiffeners:



Panels used to manufacture cars and doors may have different configurations. Henkel helps elevator manufacturers reduce panel weight, improve elevator performance (strength and sound deadening) and achieve large savings in terms of manufacturing costs when assembling and installing:

- Car / landing doors
- Wall panels
- Interior cladding



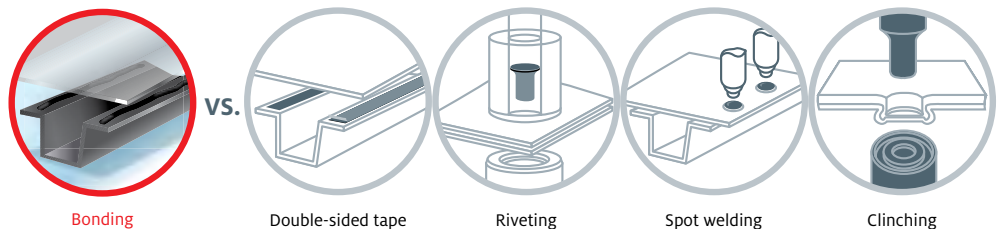
Landing doors

Car side-wall panels

Interior cladding

When manufacturing door and car panels, stiffener bonding offers major advantages over other assembly methods. Additionally, our door and car interior cladding bonding solutions enable customer to minimize production times while absorbing wider part tolerances.

OUR SOLUTION VS. TRADITIONAL METHODS



Customer Benefits

- Room temperature, one step process
- Fast fixture while allowing part re-alignment during assembly
- Versatile and compatible with most finishings
- Aesthetic solution — bridges part tolerances while maintaining panel and cladding flatness
- Improved corrosion protection
- Joints bonded and sealed at the same time
- Sound deadening and fire resistant solutions available

TRACTION DRIVES

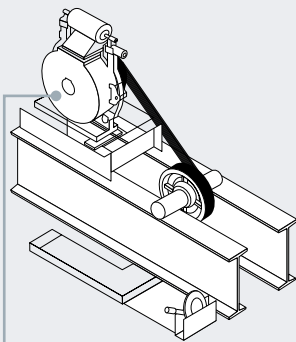


Construction and Assembly

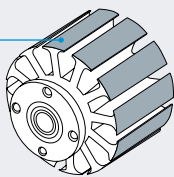
The assembly of geared and gearless traction drives relies on different adhesive techniques to guarantee a robust operation. Threadlockers, gasketing products and retainers are commonly used for this purpose.

However, it's in the motor construction where adhesive play a major role to improve the traction drive performance and significantly reduce assembly times. Often occurring bottlenecks in the assembly of permanent magnets can be overcome by using Henkel's magnet bonders.

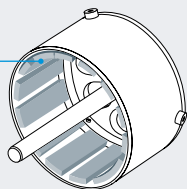
ELECTRIC MOTOR



Option 1:
Magnets on
the rotor



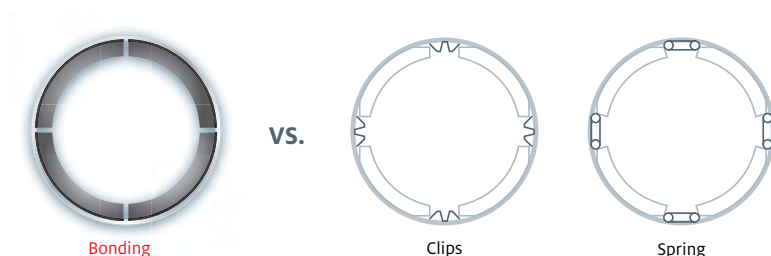
Option 2:
Magnets on
the stator



Magnet Fixation

General bonding applications are usually characterized by the use of an adhesive as the only means of structurally joining two parts that have a relatively small gap between them, typically 0.05 mm to 2.5 mm. Henkel's modern magnet bonders offer the best solution to assemble motors. These adhesives meet the highest requirements while enabling process automation and reducing overall costs.

OUR SOLUTION VS. TRADITIONAL METHODS



Customer Benefits

- Increased output by using long open time fast curing products*
- Ultra-fast automated production lines feasible
- Prevents magnet damage (no chipping, corrosion free*)
- Meets the most demanding customer requirements (e.g. strength, shock resistance, thermal resistance and durability)
- Prevents vibration noise leading to improved motor performance

* For selected products only; please contact our technical service department for details.

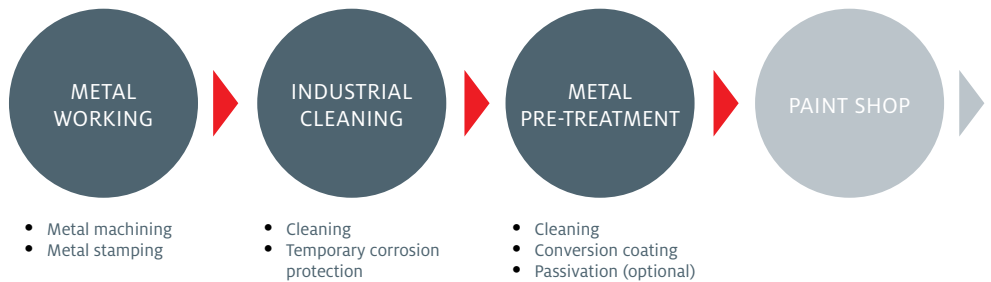
METAL STRUCTURES



Surface Protection and Rust Prevention

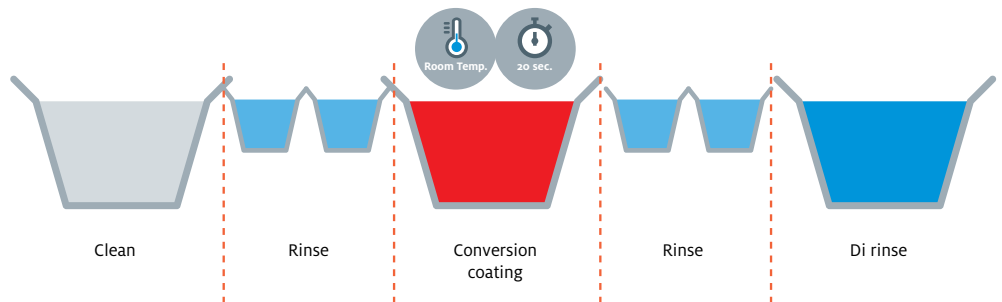
Henkel offers a variety of coatings to provide excellent corrosion protection on metal surfaces. We work in partnership with our customers to improve design, productivity, quality and profitability.

SURFACE TREATMENT VALUE CHAIN PRIOR TO PAINTING



Pre-treatment of Metal Panels

MODERN NANOTECH LINE SET-UP VS. TRADITIONAL IRON PHOSPHATING PROCESS



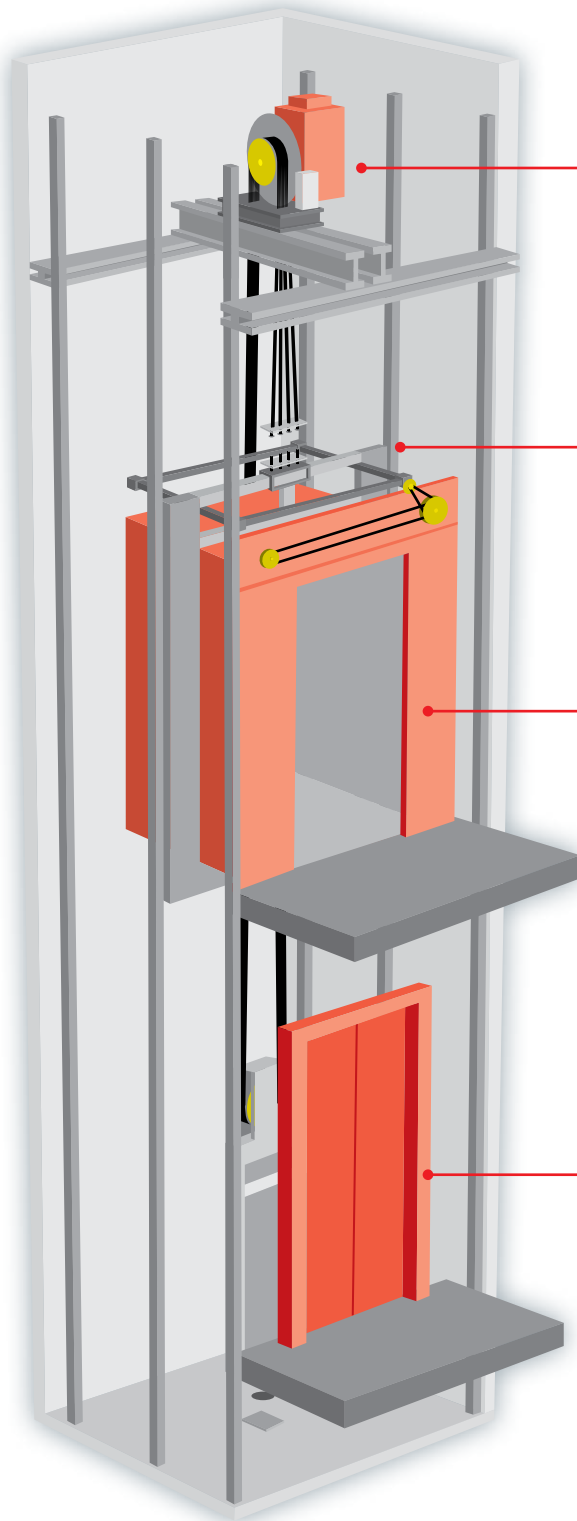
Customer Benefits

- Improved corrosion protection and paint adhesion at a lower cost
- Contains no organic ingredients, no phosphates and no toxic heavy metals, with zero COD and BOD
- Lower temperature, reduced contact time and one step less, which substantially reduces energy costs
- Major reduction in waste water treatment and water disposal



Painted Components

APPLICATIONS AT A GLANCE



TRACTION DRIVES

- Electrical motor construction
- Metal part precision machining
- Bolt loosening prevention
- Gasketing / flange reinforcement
- Shoe / pad brake bonding

METAL STRUCTURES

- Structure corrosion protection
- Bolt anti-seizing

CARS AND FRAMES

- Sidewall construction and finishing (cladding)
- Ceiling / roof construction
- Car door construction and finishing
- Window bonding and sealing
- Frame and panel corrosion protection
- Small part bonding
- Floor bonding
- Bolt loosening prevention
- Sound deadening and fire resistant systems

LANDING DOORS

- Landing door construction and finishing
- Window bonding and sealing
- Bolt loosening prevention
- Small part bonding
- Sound deadening and fire resistant systems

OTHER APPLICATIONS

SHAFT COMPONENTS

- Corrosion protection
- Threadlockers and anti-seizes on bolts, studs and nuts
- Retaining of bearings

ELECTRONICS AND ELECTRICAL CONNECTIONS

- Potting
- Molding control connections
- Bonding and sealing
- Cleaning

DOOR MECHANISMS

- Anaerobic threadlockers and retainers
- Instant bonding of plastic / rubber parts

LOCTITE®
BONDERITE®
TECHNOMELT®
TEROSON®
AQUENCE®

Henkel Adhesives Technologies India Private Limited

Mumbai

Corporate Office

L & T Seawoods, Grand Central,
401, B Wing, 4th Floor, Tower 1,
Seawoods, Navi Mumbai - 400 706,
Maharashtra, India.
Phone : +91 22 7130 1300

Chennai

Arunodayam, No. 14 & 16,
Raman Street, North Boag Road,
T. Nagar, Chennai - 600 017,
Tamil Nadu, India.
Phone : +91 44 3354 6123

Pune

Survey No. 234, 235 and 245,
India Land Global Industrial Park,
Phase 1, Hinjewadi, Pune - 411 057,
Maharashtra, India.
Phone : +91 20 7199 7000

Delhi

74, Industrial Corporation,
Mehrauli Gurgaon road,
Gurgaon - 122 001,
Haryana, India.
Phone : +91 0124 509 7000

Factory

D3/D4, MIDC Industrial Estate,
Jejuri, Purandhar, Pune - 412 303,
Maharashtra, India.
Phone : +91 2115 718 000

www.henkel.in

www.henkel-adhesives.com/in

www.linkedin.com/company/henkel-adhesives