

Roxtec

Flexible Cable, Pipe and Conduit Seals for Railroad Vehicles

Roxtec has an impressive history when it comes to solving safety problems in the rolling stock industry. The company has developed penetration seals that fulfil the highest fire resistance requirements and cover the highest hazard levels to help avoid accidents and downtime.

Roxtec seals can be used as a standard solution for sealing around cables, hydraulic pipes and plastic conduits in fire rated barriers throughout the railroad vehicle structure. The seals withstand multiple hazards such as fire, smoke, water, air-shock and vibration, and provide excellent cable retention.

Launching New Innovative Seals

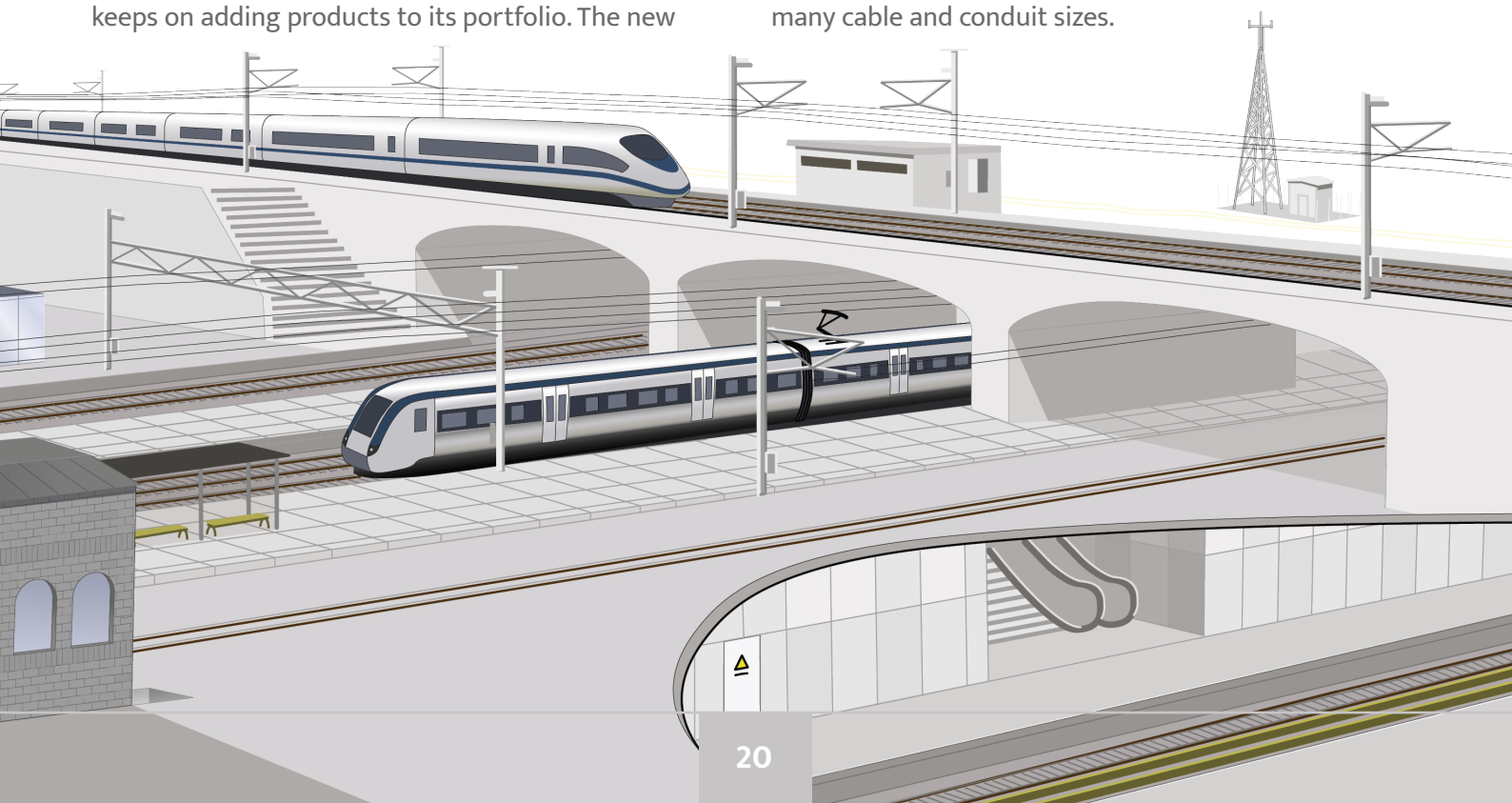
As a world-leading cable and pipe transit provider, Roxtec is focusing on continuous development and keeps on adding products to its portfolio. The new

series of compact and lightweight yet very strong transits are ideal for rolling stock.

The Roxtec C LW/K and the Roxtec C LH multi-cable and pipe transits have aluminium frames. The first one is attached to the structure by welding, the other one by bolting. The frames are used with sealing modules that adapt to cables and pipes of different sizes and that can be used to add spare capacity in the seal. The area-efficient seals provide ingress and fire protection as well as vibration-proof cable retention and are used in floor and wall applications.

Good Choice for Serial Production

There is also the Roxtec C RS SLO seal for single cable and pipe entries in cabinets, enclosures and equipment. It consists of an adaptable Roxtec C RS seal and a Roxtec C SLO sleeve. It is lightweight, reliable and perfectly suited for serial production, accommodating many cable and conduit sizes.



All-in-One Solutions

The versatile Roxtec CRF transit is another example. It can be used either with Roxtec CRF and CRF PPS modules for high-speed installations in serial production processes, with known cable and conduit sizes, or with compact Roxtec CM and CM PPS modules that adapt to cables and conduits of various sizes. The PPS versions of each module type contain intumescent material that expands to protect plastic conduit applications in case of fire. Regular-sized Roxtec RM PPS modules provide the same flexibility and fire protection for plastic conduits when used in Roxtec GH, S, SF or SK frames.

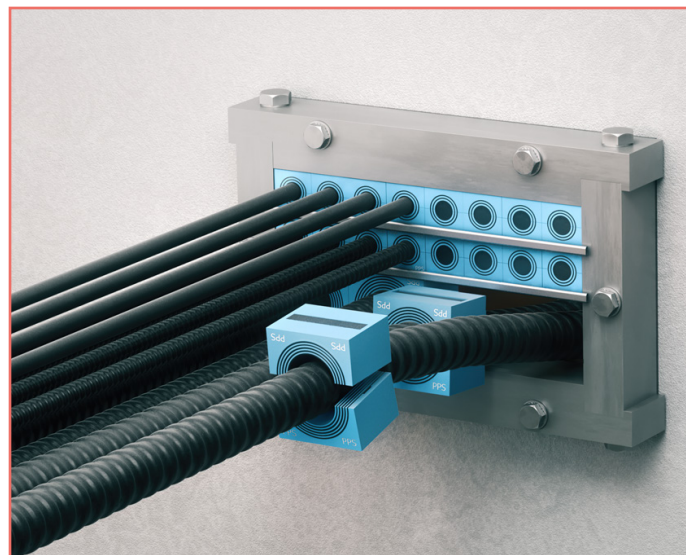
Welding Process in Line with EN 15085

With a mindset concentrating on supporting rolling stock players in everything from design through to manufacturing, globally and locally, Roxtec has made sure to meet quality control and inspection standards. These standards can regulate production processes as well as documentation needs for the manufacturers. Therefore, the production and performance of Roxtec sealing solutions are certified according to a variety of standards, including the welding process standard EN 15085.

Covering Many Application Areas

The sealing solutions from Roxtec enable standardisation since they fit a multitude of applications:

- Cable management – the sealing system is gentle to the cable sheath and excellent for keeping cables in place to avoid damage. It simplifies installation and maintenance work.
- Converters and inverters – the compact seals are lightweight and quick to install and they ensure peace of mind for years to come. The built-in spare capacity simplifies retrofits and upgrades.
- Floors – bolted and welded transits are the right choice for demanding floor applications. A wide range of Roxtec frames with varying packing space and frame depth makes design work easy.
- Junction boxes – Roxtec seals allow for high cable density, which enables designers to reduce the size and weight of junction boxes. The seals withstand harsh and high temperature environments.
- Pantographs – Roxtec provides solutions for sealing



and grounding of high-voltage power cables. There are round seals for area-efficient installations and high environmental protection.

- Partition walls – the seals are easy to install since each module is adaptable to cables, hydraulic pipes and plastic conduits of different sizes. It makes it easy to maintain the integrity of the fire barrier.
- Rooftops – the seals for rooftop-mounted equipment ensure long-term reliability of air-conditioning systems and antennas. The modular-based concept makes retrofits and service a smooth task.
- Pipes – Roxtec round and compact sealing solutions can be used for the vehicle undercarriage to seal off around hydraulic pipes.

Meet Roxtec at InnoTrans

Would you like to know more about Roxtec sealing solutions or additional Roxtec services such as installation training for installers and supervisors? Are you interested in learning more about Roxtec transit design and management software, such as Roxtec Transit Designer™ which allows you to filter by application, certificate and sealing requirements to select the right sealing solution for optimised safety?

Feel free to visit Roxtec in **Hall 15.1 Stand 255** and **Hall 22 Stand 280** at InnoTrans 2024.



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Optimize space, weight, and safety

Roxtec cable, pipe, and conduit seals are compact and lightweight yet strong and robust. They are ideal as a cost-efficient standard solution when you want to improve speed, safety, strength-to-weight ratio, performance, and energy efficiency.

- Ingress protection
- Fire protection
- Cable retention