

CUSTOMER REFERENCE

EXTREMELY SAFE CONTAINER TRANSPORT WITH ALPHA



TENTE

BETTER MOBILITY. BETTER LIFE.



WHEN SAFETY IS CRITICAL: CASTERS FOR THE FIRE SERVICE

Thomas Braun, Managing Director of Braun Feuerwehrtechnik GmbH, has turned his passion into his profession. At the age of five he was already a member of the junior fire brigade; today he serves as fire brigade commander in a volunteer fire brigade in Austria. With his company, he supplies fire brigades worldwide as well as the Austrian Red Cross. Braun Feuerwehrtechnik GmbH has received several awards, including an innovation award and the i2B award, because it aligns its products precisely with the needs of fire-fighters. In doing so, the company relies on casters and mobility solutions from TENTE.



THE INITIAL SITUATION

Braun Feuerwehrtechnik GmbH provides products and services in three segments: it manufactures its own products such as roll containers for fire brigades, equips vehicles with customised interior fittings and offers special engineering solutions. This includes, for example, providing extinguishing water during the construction of a high-rise building for the upper floors when the permanent water supply has not yet been established.

Fire brigades use special roll containers to make their vehicles more flexible and to reduce costs. Equipment is stored in these roll containers, which are then loaded onto the fire engine depending on the operational requirements. Whether the equipment is used for firefighting, for pumping out floodwater, or for breathing apparatus and heavy rescue or work equipment, all of it is transported in such containers.

FAST AND SAFE TO DEPLOYMENT

An important aspect in the design of the roll containers is that they must be flexible in size and in the fittings used to store the equipment, while their mobility must be ensured by durable, robust and reliably lockable casters. Suitable tread materials and high-quality ball bearings ensure the necessary speed, while reliable locking ensures safety during operations.

OUR INTELLIGENT MOBILITY SOLUTION

Alpha casters from TENTE with a diameter of 200 millimetres and a dynamic load capacity of 400 kilograms per wheel are used on the fire brigade roll containers from Braun Feuerwehrtechnik because they are particularly durable and safe. Four TENTE casters are installed per container and all are connected via a linkage to a central locking system. Particularly heavy containers are equipped with six TENTE casters. Braun Feuerwehrtechnik uses a linkage system for the central locking mechanism, which is less susceptible to faults than Bowden cables. After all, fire brigades operate in extreme conditions: in heat and cold, in wind and rain, as well as in snow and ice.

Other manufacturers use two swivel casters with locks and two fixed casters. When firefighters push a container onto the loading platform of a vehicle, it can happen that the container protrudes and only one caster is locked. Even the slightest movement may cause the container to slip, posing an immediate safety risk to the firefighters. The central locking of all casters ensures secure positioning and therefore safety for the firefighters. From a weight of 450 kilograms, fire brigade containers must in any case be equipped with a central locking system for safety reasons.

SUITABLE FOR EMERGENCY SERVICES AND COMPANIES

The central locking system is operated via a handle bar which, when pressed by hand, pushes against a second bar via a gas spring and prevents sudden braking. Such sudden braking could be dangerous for firefighters because the container might tip over. The handle bar operates all casters simultaneously and ensures that they are either locked or ready for movement. Braun Feuerwehrtechnik and TENTE have jointly developed a solution that enables safe braking even with the limited leverage available in the locking mechanism.

A key advantage here is the swivel bearing protection of the Alpha caster from TENTE. It is unique and provides additional safety when locking because the wheel does not deflect as strongly to the sides, preventing the container from tipping. The Alpha caster from TENTE is available with different tread materials and mountings, as well as in an ESD version, making it extremely versatile. It is suitable for fire brigades, but also for all emergency services and companies where safety plays a particularly important role.

Central locking system and swivel head protection ensure maximum safety – even under extreme operating conditions.



“For many years we have worked closely together. TENTE always takes our challenges seriously, and together we develop solutions that are precisely tailored to our customers, for whom safety plays a crucial role.”

Thomas Braun
Founder and managing director of Braun Feuerwehrtechnik GmbH





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PRODUCTIVITY



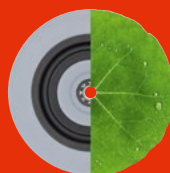
SAFETY



DESIGN



DURABILITY



ENVIRONMENT