

SYSTEM: STRAINBOX

MODEL: L



Product description

The StrainBox L enables ADR-compliant transport and the safe storage of critical and defective lithium-ion batteries. Its compact design has been specifically developed for batteries used in small energy storage systems, such as those found in e-bikes, power tools or mobile devices.

The design is engineered to withstand lithium-ion battery failures and controls the thermal and mechanical stresses arising from a potential thermal runaway. The integrated thermal management system limits heat transfer to the outside and prevents critical heating of the outer surfaces.

An integrated gas venting and filtration system reduces the release of toxic reaction gases and retains particles and solid reaction products within the enclosure. The pressure-resistant design prevents the escape of flames, sparks, liquids and solids.

To protect people and property, the StrainBox L features proven safety features from Stöbich Brandschutz GmbH, including the integrated gas ducting and filtration system, a mechanically robust design and the integrated thermal management system.

Main features

ADR-compliant transport of critical and defective lithium-ion batteries

Retention of liquids and solids

pressure-resistant construction

Secure and stable locking

integrated gas delivery and filtration system

Neutralisation of the pollutant gases that occur

mechanical strength

Protection of persons and property

tested complete system

Absorption and dissipation of thermal energy

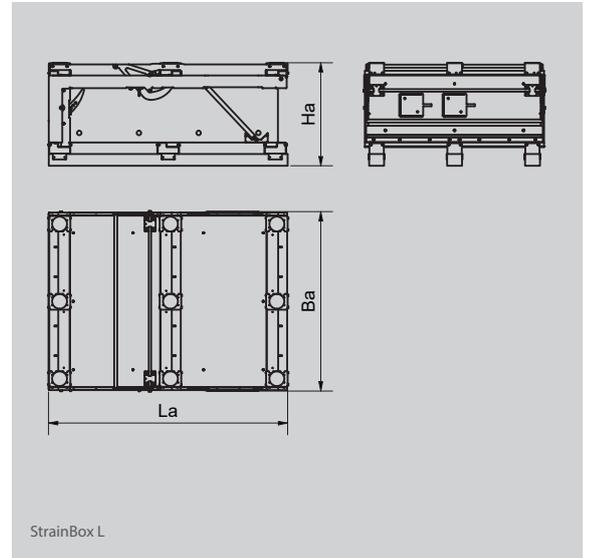
No escape of sparks and flames

No dusting fillers

Product features

Technical data	StrainBox L	StrainBox L120-M
External dimensions $L_a \times W_a \times H_a$	1,600 x 1,200 x 696 mm	1,207 x 980 x 765 mm
Inner dimensions $L_i \times W_i \times H_i$	1,378 x 887 x 326 mm	700 x 520 x 326 mm
max. empty weight	557 kg	300 kg
max. payload (transport)	260 kg	-
Maximum energy content (storage)	31.2 kWh – critical fault unrestricted	15 kWh – critical fault unrestricted
Maximum energy content (transport)	31.2 kWh – critical fault unrestricted	-
Capacity	399 l	119 l
Approval and compliance	UN-approved packaging for dangerous goods with X-coding for transport in accordance with ADR, RID and the IMDG Code. A specification or statement from the testing body is available separately for the transport of lithium-ion batteries with critical defects.* CE marked.	For integration into internal automated processes. CE marked.

* ADR SV 230 P 903, SV 310 P 910, SV 377 P 909, SV 376 P 908 / P 911 for road, rail, inland waterway and maritime transport; Stöbich is a manufacturer of packaging for dangerous goods with a recognised quality assurance programme in accordance with BAM dangerous goods regulations.



Variants

All versions are available with an electric drive system for automated opening and closing of the packaging. The M variants contain a control unit for this purpose, which can also be integrated into production lines.

Description of the components

Gas delivery and filtration system

Locking system

Lashing eyes for load securing

Gas springs

Drip tray for liquids

Number plate holder for signage

Notes

Dimensions and colour schemes can be customised to the customer's requirements following prior consultation. As standard, the product is supplied in a single colour: traffic red RAL 3020, as specified in the quotation.



StrainBox L in RAL 3020