

# SYSTEM: STRAINBOX

MODEL: XL



## Product description

The StrainBox XL 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 XL 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

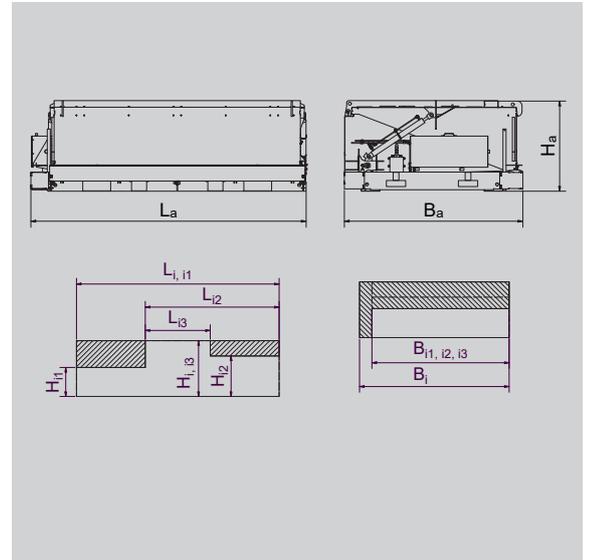
## Product features

Technical data	StrainBox XL	StrainBox XL3000
External dimensions $L_a \times W_a \times H_a$	3,557 x 2,300 x 1,179 mm	
Inner dimensions $L_i \times W_i \times H_i$	2,778 x 2,050 x 770 mm	(1) 2,778 x 1,880 x 400 mm (2) 1,834 x 1,880 x 560 mm (3) 890 x 1,880 x 770 mm
max. empty weight	3,187 kg 3,237 kg (M)	3,265 kg 3,315 kg (M)
max. payload (transport)	1,583 kg 1,533 kg (M)	1,505 kg 1,455 kg (M)
Maximum energy content (storage)	125 kWh – critical fault unrestricted	125 kWh – critical fault unrestricted
Maximum energy content (transport)	125 kWh – critical fault	unrestricted
Capacity	4,335 l	2,992 l
Approval and compliance	Einzelfallfestlegung für den Transport kritisch-defekter Lithium-Ionen-Batterien nach ADR SV 376 LP 906, RID und IMDG-Code.* CE-gekennzeichnet.	Zugelassene UN-Gefahrgutverpackung mit X-Codierung für den Transport nach ADR SV 230 LP 903, SV 310 LP 905, SV 376 LP 904, RID und IMDG-Code.* CE-gekennzeichnet.

\* für die Verkehrsträger Straße, Eisenbahn, Binnen- und Seeschifffahrt; Stöbich ist Hersteller von Gefahrgutverpackungen mit anerkanntem Qualitätssicherungsprogramm nach BAM-Gefahrgutregeln.



StrainBox XL3000-M in RAL 3020



### Variants

The StrainBox XL is also available as an approved packaging solution for dangerous goods. In the StrainBox XL3000 variant, the usable internal volume has been limited to less than 3 m<sup>3</sup> to comply with ADR requirements. Thanks to an optimised layout of the interior, the available storage space can still be utilised efficiently.

All versions are optionally available with an electric hydraulic system for opening and closing the packaging. The M variants feature an integrated hydraulic unit with a control unit and a wired remote control. The additional unit results in a corresponding change to the unladen weight and permissible payload.

### Description of the components

- Gas delivery and filtration system
- Hydraulic cylinder with hydraulic unit
- Electric hydraulic unit (optional)
- Locking system
- Reinforced frame with transport openings
- Folding board 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.