

Product  
**CATALOG**

Version 1.2

**(R) ROTHSCHENK**  
Load securement  
Made in Germany

We didn't invent  
load securing.

But we mastered it.



**LOAD SECUREMENT. MADE IN GERMANY.**

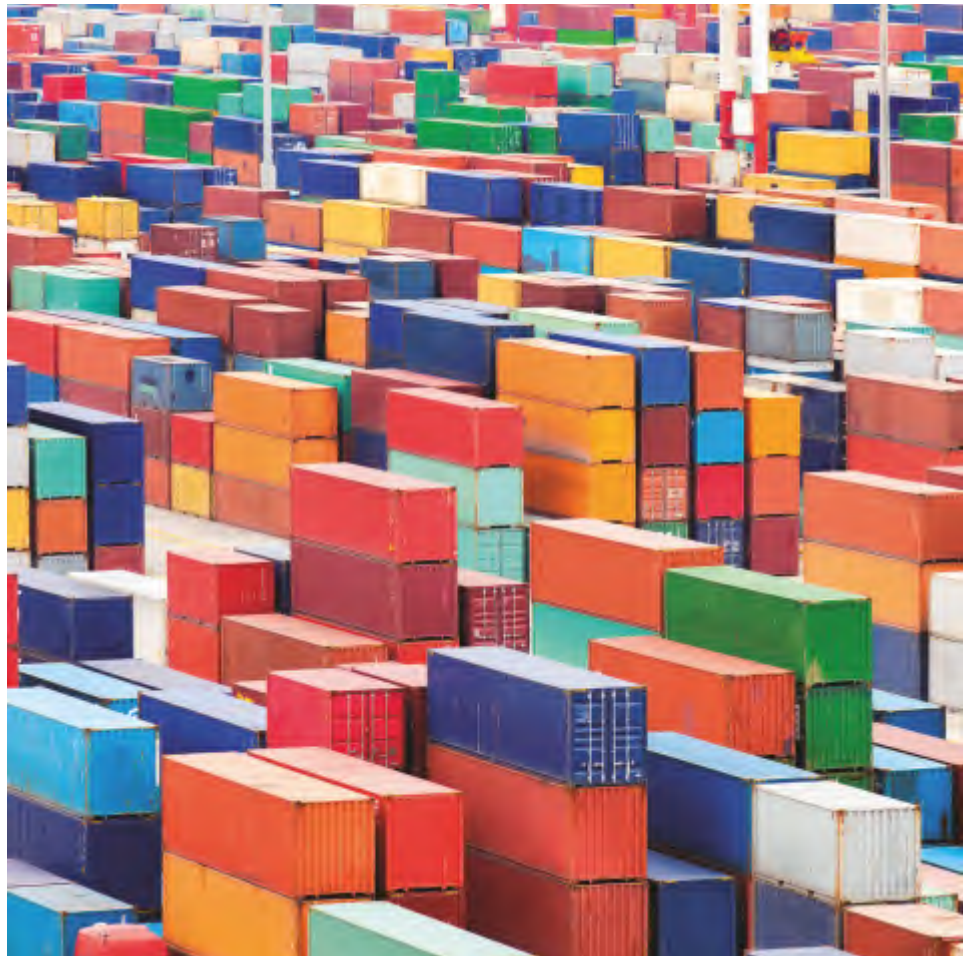
# The ROTHSCHEMK Principle 360 Load Securing

As a specialist in professional load securing, we ensure the safe transport of goods worldwide, whether they are transported by road, rail, air, or water.

We offer a wide range of proven standard products, configure them individually according to customer requirements, or develop, plan, and produce unique solutions made from fabric, film, and webbing.

This is what we stand for:

- Over 28 years of experience in the field of load securing
- Innovative, certified, and CTU Code compliant products
- Customer-oriented and solution-focused
- Well-trained and experienced employees
- Rothschenk quality 'Made in Germany'
- High-quality and tested materials
- Consulting by experienced, certified trainers and consultants



## Container Load securement



Flatrack  
20' Container  
40' Container  
Reefer Container  
Open Top Container  
High Cube Container

Pages 8 - 61



## Truck Load Securing



Flatbed  
Box trailer  
Curtain sider  
Light commercial vehicle

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## Packaging formation | Transport/Bundle protection



Pages 84 - 103



## Our services



Pages 104 - 111

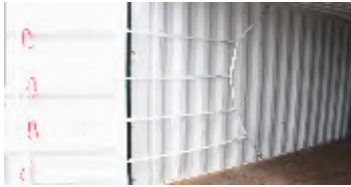




**White Lash Web**  
The classic, bagged goods

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**White Lash System**  
Cost-effective, ready for use immediately

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Pages 10-11



**Red Lash System**  
Our bestseller

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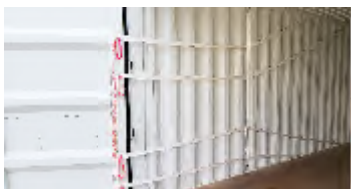
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**Pro Lash Tec**  
Specifically for flexible packaging

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**Pro Lash Flex**  
Highest retention force

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**Lashing special**  
Application-specific solutions

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**Full Safety**  
Surface retention systems

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Pages 24-27



**Lashing accessories**  
Tools and accessories edge protection

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**White Line**  
Affordable, DEKRA certified

Pages 36-37



**Red Line**  
Best price-performance ratio, Level 1 AAR certified

Pages 38-39



**Pro Line**  
For the highest performance

Pages 40-43



**SAM**  
Container restraint system

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**Dunnage bag special**  
Application-specific solutions

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**Dunnage bag tools**  
Filling technology and positioning aids

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**Desiccant**

Desiccants and accessories

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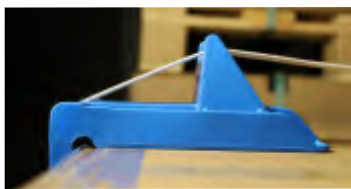
**Ratchet strap**  
The classic

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**Anti slip**  
Friction value increase

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**Edge protection**  
Product protection

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**Truck dunnage bag**  
Multi-way use

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**Truck special**  
Special solutions

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**Accessories**  
Tools and aids

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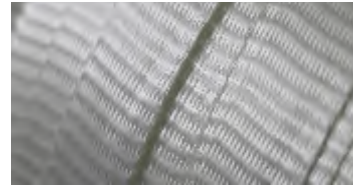
## Composite straps The classic

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## Woven straps Flexibly applicable

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## Drum securement Single-use and reusable solutions

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## Small canister securement Single-use and reusable solutions

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## Accessory packaging formation Tools and aids

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## Transport/product protection Protection for your goods

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## Rothschenk Our services for you

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### Application purpose

[R] White Lash Web is ideal as a cost-optimized entry into load securing. [R] White Lash is used whenever secure and flexible securing is required at a low cost. Multiple individual components can be combined into a complete system for this purpose.

Our webbing can be easily cut to the required length by the user and is very well suited for reliably securing one-way tie-downs, for example in containers, railway rail cars or on flat racks.

We offer [R] White Lash as bagged goods in various breaking strengths and strap widths of 32-50 mm. The strengths of our lashings are certified by TÜV Rheinland and ensure maximum safety when used with our compatible fasteners and hooks.



Various strap widths



Webbing cutter for shortening














Practical holding magnets



**Advantages**

- Easy handling by manual cutting of the strap
- Cargo can be reliably secured
- Strap is certified by TÜV Rheinland
- 32/40 mm strap: AAR certified (Association of American Railroads)
- Depending on the application, CTU code compliant for many load types
- Recyclable

-   **CERTIFIED**
-   **6 TONS MAX**
-   **INDIVIDUAL PRODUCTION**
-   **CTU CODE CONFORM**
-   **RECYCLABLE**



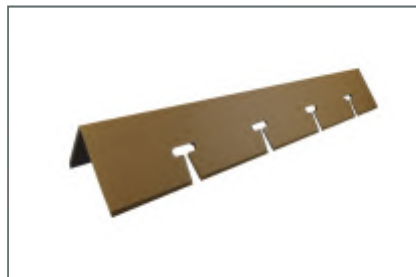
**Standard article**

Designation	Quantity per pallet / sack	Load capacity	Article Number
White Lash Web 32 mm	6.250 m / 250 m	2.300 daN	17391-E
White Lash Web 38 mm	4.600 m / 200 m	3.500 daN	17337-E
White Lash Web 40 mm	3.600 m / 200 m	5.000 daN	12008-E

**Makes good even better**



Holding magnets



Cardboard edge protection angle with milling



Reel tensioner

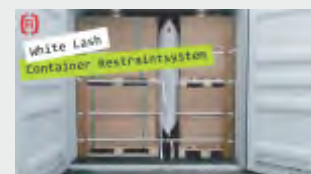
**Technical Data**

- Widths: 32/38/40/50 mm
- Available as bulk packaging (150 - 250 m)
- Linear strengths of 2,300 - 6,000 daN

**Here you will find**



- Certificates
- User Information



- Application Video



**Application purpose**

Developed as an efficient and cost-effective entry solution into the world of pre-assembled lashing systems. Our [R] White Lash System allows for quick application of the lashings in the container. Before loading, the straps can be easily and flexibly adjusted in height to fit your goods and then secured using strap buckles.

Our webbing straps are pre-assembled at the factory. This means that the straps are cut to the correct lengths, fitted with our special button hooks, and all assembled into a ready-to-use lashing, which is then sewn together. This gives you an immediately usable system for quickly securing various cargo units in the container.

We offer [R] White Lash in different designs, e.g., with two, three, or four cross straps. They have been tested for load capacity by Rothschenk, certified by TÜV, and ensure high safety for your goods when combined with our accessories.



PWLS 28-11-20/1/B



Optimized positioning aid













Ready for immediate use



Cross straps are height-adjustable

## Advantages

- Quick and easy handling in everyday use
- Cargo is reliably and effectively secured
- Certified by TÜV Rheinland
- CTU code compliant for weights up to 6 tons
- Cross straps infinitely height-adjustable and extendable
- Button hooks with safety feature
- Suitable for standard or HQ containers

-  
-  
-  
-  
-  

## Standard article

Designation	Dimensions	Design	Article Number
White Lash 2.32	2.600 / 2x cross 3.100 - 32 mm	looped	24718-E
White Lash 3.32	2.600 / 3x cross 3.100 - 32 mm	looped	24720-E
White Lash 4.32	2.600 / 4x cross 3.100 - 32 mm	looped	24722-E



## Makes good even better



Positioning aid



Corner protection angle cardboard



Lashing tensioner

## Technical data

- Band width 32 mm
- available with 2/3/4 horizontal straps

## Here you will find



- Certificates
- User information



- Application video



**Application purpose**

The [R] Red Lash is our classic when it comes to pre-assembled restraint systems in containers. The lashing significantly increases the safety of your goods during transport and ensures that your cargo arrives safely and without damage at its destination.

[R] Red Lash is used for securing stable cargo such as drums, cartons, IBCs, or wooden crates in standard containers. Our [R] Red Lash comes in many different variants, where two cross straps are securely attached to the restraint straps at a fixed distance and can be adjusted. This allows it to be optimally adapted to your application and the shipped units.

Our [R] Red Lash system is a very flexible container restraint system that is very easy to use. Additionally, it is certified by TÜV Rheinland, tested in numerous practical trials, and guarantees you CTU code-compliant securing of your goods.



PHIGS-28-11-25/11B

**Varianten**



2 horizontal straps



3 horizontal straps













4 horizontal straps



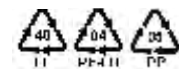
## Advantages

- Pre-assembled for quick and easy handling in everyday use
- Cargo is reliably and effectively secured up to 12 tons
- Cross straps are easily adjustable in height without steps
- Expandable with additional cross straps
- Hooks with button safety
- Suitable for standard and high cube containers
- Certified by TÜV Rheinland

-   CERTIFIED
-   12 TONS MAX
-   INDIVIDUAL PRODUCTION
-   CTU CODE COMPLIANT
-   RECYCLABLE

## Standard article

Designation	Dimensions	Design	Article Number
Red Lash System 2.38	2.600 / 2x cross 3.100 - 38 mm	height adjustable	20243
Red Lash System 3.38	2.600 / 3x cross 3.100 - 38 mm	height adjustable	23031
Red Lash System 4.38	2.600 / 4x cross 3.100 - 38 mm	height adjustable	21237



## Makes good even better



Buckle 4030



Positioning aid, magnetic



Battery lashing tensioner LT38e

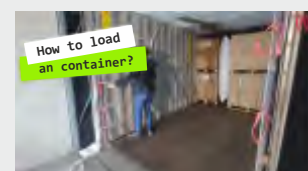
## Technical data

- Straps: Height 2.600 | 2/3/4 straps horizontal 3.100 - 38 mm
- Hook with lock button
- CV 400 - 1.650 mm (Distance between the upper and lower strap)

## Here you will find



- Certificates
- User Information



- Application Video



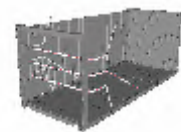
**Application purpose**

The [R] Red Lash+ is the logical evolution of our [R] Red Lash restraint system. Its innovative design allows for quick adjustments tailored to load weights (from 12 to 24 tons) in no time.

With the vertical holding strap, additional horizontal webbing straps can easily be added for higher load weights. This enables the use of more container lashing points, thereby achieving greater restraint forces.

Depending on the number of additional auxiliary straps with button hooks used, values of up to 24 tons of cargo weight can be secured in compliance with CTU Code. The outstanding function of the [R] Red Lash base system, such as the flexible height adjustment, is also present in the [R] Red Lash+

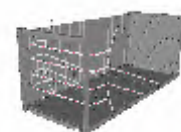
**Variation**



1 auxiliary strap, 6 loops



2 auxiliary straps, 8 loops













2 auxiliary strap (variation)



PHL-S-04-12/20/17B

## Advantages

- Pre-assembled for quick, flexible, and easy handling in everyday use
- Cargo is reliably and effectively secured
- Cross straps are easily adjustable in height without steps
- Expandable with additional cross straps
- Hooks with button safety
- Certified by TÜV Rheinland
- Custom designs also possible

-   CERTIFIED
-   24 TONS MAX
-   INDIVIDUAL PRODUCTION
-   CTU CODE COMPLIANT
-   RECYCLABLE

## Standard article

Designation	Dimensions	Design	Article Number
Red Lash+ System 2.38	2.600/2x cross CV 400	Universal lashing/Holestrap	26065
Extension band 38 mm	Length: 6.300 mm	Safety hook	24708
Extension band 38 mm	Length: 5.200 mm	Safety hook	26076



## Makes good even better



Buckle 4030



Ddesiccant



Battery lashing tensioner LT38e

## Technical data

- Straps: Hight 2.600 | 2/3/4 straps horizontal 3.100 - 38 mm
- Hook with lock button
- CV 400 - 1.650 mm (Distance between the upper and lower strap)

## Here you will find



- Certificates
- User Information







**Application purpose**

[R] Pro Lash Tec has been specifically developed to secure flexible packaging in shipping containers! Flexible packaging, such as sacks or big bags, is difficult to secure due to its special properties. As a result, changes in the load can occur during long transports. One possible consequence could be the slipping or sagging of the lateral straps of the lashing.

With [R] Pro Lash Tec and its specially integrated rubber bands, the lateral straps of the lashing are always kept in the correct position, regardless of whether the cargo settles or slips out of and back into the lateral straps. The tension of the lashing prevents sagging or slipping of the horizontal straps.

[R] Pro Lash Tec is certified by EUROSAFE and ensures maximum safety when transporting flexible packaging in shipping containers.



Tensioning function via rubber band



Flexible height adjustment













Pointed hook with lock button



**Advantages**

- Specifically designed for securing flexible packaging
- Integrated rubber band prevents sagging or slipping of the lateral straps during loading and unloading of the cargo during transport
- CTU Code compliant for many loads
- Quick and easy handling in everyday use
- Secure cargo reliably and effectively
- Continuously adjustable in height and expandable
- Also available as a "Plus" version with an additional lateral strap
- Certified by EUROSAFE

-   **CERTIFIED**
-   **12 TONS MAX**
-   **INDIVIDUAL PRODUCTION**
-   **CTU CODE COMPLIANT**
-   **RECYCLABLE**

**Standard article**

Designation	Dimensions	Design	Article Number
Pro Lash Tec 2.38	2.600 / 2x cross CV 400	elastic extension band	24693
Pro Lash Tec 3.38	2.600 / 3x cross CV 1.200	elastic extension band	23196
Pro Lash Tec 4.38	2.600 / 4x cross CV 1.600	elastic extension band	23624



**Makes good even better**



Positioning aid, magnetic



Edge protector Flex Protect



Battery lashing tensioner LT38e

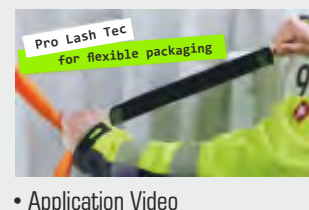
**Technical data**

- Straps: Height 2.600 | 2/3/4 straps horizontal 3.100 - 38 mm
- Hook with lock button
- Integrated rubber bands for automatic reset function
- CV 400 - 1.650 mm (Distance between the upper and lower strap)

**Here you will find**



- Certificates
- User Information



- Application Video



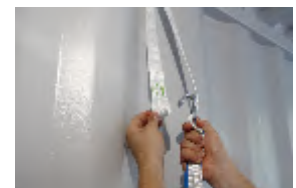
**Application purpose**

(R) Pro Lash Flex restraint systems are used whenever the highest demands are placed on cargo securing and user-friendliness. Our (R) Pro Lash Flex is our best system to ensure maximum safety for the transport of your goods. As standard, this system uses 8 lash points to secure your cargo. Upon request, our (R) Pro Lash Flex can be customized to meet your individual needs. With the (R) Pro Lash Flex and its specially integrated rubber band, hooking into the lashing points is a breeze. Additionally, the strap is positioned close to the side wall or behind the container lip, allowing goods to be easily passed by the lashing.

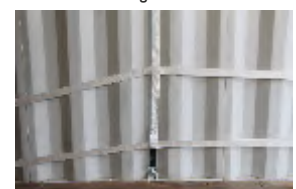
Due to its modular design, the restraint system can be adjusted rapidly to achieve the desired holding forces. To make application even more comfortable, faster, and more efficient, our quick-release mechanism can be optionally used. This is already threaded in to further enhance efficiency in daily use.



Automatic fixation



Extension for high cube



Loop strap for increased flexibility

PHLF-29-11-23/1TB

**Advantages**

- Certified by VCT Bremen GmbH
- CTU code compliant for many loadings
- Fast & easy handling in everyday use
- Secure cargo reliably & effectively
- Flexible to use and adaptable
- Only one lashing suitable for both standard and high cube containers
- One packaging unit contains all components for container loading
- Ideal in combination with our magnetic positioning aid

- ✓ **CERTIFIED**
- ✓ **24 TONS MAX**
- ✓ **INDIVIDUAL PRODUCTION**
- ✓ **CTU CODE COMPLIANCE**
- ✓ **RECYCLABLE**

**Standard article**

Designation	Dimensions	Design	Article Number
Pro Lash Flex 2.38	2.815 / 2x cross 3.100 - 38 mm	elastic extension band	24706
Pro Lash Flex 3.38	2.815 / 3x cross 3.100 - 38 mm	elastic extension band	24705
Pro Lash Flex 4.38	2.815 / 4x cross 3.100 - 38 mm	elastic extension band	24704



**Makes good even better**



Sustainable packaging/cert. upon request



Available with quick release upon request



Batt. lashing tensioner [R] LT38e Performance

**Technical data**

- Straps: Hight 2.600 | 2/3/4 straps horizontal 3.100 - 38 mm
- Hook with lock button
- Integrated rubber band for securing the holding strap

**Here you will find**



- Certificates
- User Information



- Application Video





**Application purpose**

Welcome to our area of expertise. Developing special solutions is one of our core competencies. As a German manufacturer with our own production facility in Franconian Aub, we have access to all the necessary resources (research/development/certification/production/testing). Many of our products have emerged from the individual needs of our customers for which there were no solutions available on the market.

Our experienced specialists have then developed affordable and practical solutions in close collaboration with our customers. We often combine well-known basic products with new approaches to create entirely new solutions.

The products that need securing are usually as diverse as the resulting possibilities. Consulting by our certified advisors is a crucial factor in this process. If you wish, we can also have the solutions developed for you certified by independent institutions.



Combination dunnage bag/lashing



Comb. with plastic edge protector



Combination with Flexprotect

PLASPE-01/24/1B



**Customer example for a special solution**

**Objective:**

Improvement of the past loading process at the customer and complete avoidance of damage to paper rolls. Additionally, a consistent achievement of pre-tensioning forces, filling of airbags without air hoses, and certification of the loading process.

**Past loading**

On the customer side, attempts have been made to secure the rolls using tie-down straps and standard airbags. Since the products used were not suitable for proper load securing, damage occurred repeatedly.



**Damage caused by metal fittings**

The use of a ratchet caused damage to the edge of the goods



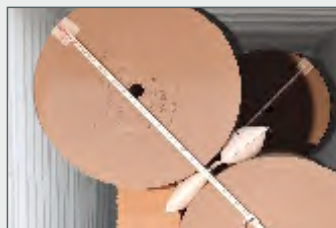
**Damage caused by dunnage bags**

The use of a single dunnage bag led to changes in the air distribution within the airbag. As a result, the airbag was able to work its way out of the gap during transport.



**Optimization by Rothschenk**

By using (R) Lashing Spezial, a lashing could be applied significantly behind the goods. This was made possible, among other things, by the use of a special positioning aid. Additionally, the customer is now using a two-chamber cushioning bag. This allows for consistent stable pressure conditions on both sides.



Since then, according to our customer, there have been no more damages.

Previous customer application

New application

- CERTIFIED**
- MAXIMUM LOAD CAPACITY**
- INDIVIDUAL PRODUCTION**
- CTU CODE COMPLIANCE**
- RECYCLABLE**



**Did you know?**

We are one of the few manufacturers of load securing products with a production facility in Germany.

Our customers benefit, for example, from short delivery times and a highly flexible adaptation of our products to specific customer requirements.

**Here you will find**



- Certificates
- User Information





**Application purpose**

Constantly changing loading scenarios require maximum flexibility. To meet this customer demand, we have developed the [R] lashing point extension. The goal was to create a modular system that allows securing the cargo at any location within the container.

The basis of the system is a special lashing system that runs along the container wall. This is connected to the existing lashing points. Due to this design, it can be attached to both the lower and upper lashing points.

Subsequently, the system can be expanded with additional lashing straps to secure the cargo. A special feature is a system for securing the cargo using our double ratchet.



Flex. lashing points along the container wall



Lashing points usable at top/bottom



Flexible use through double ratchets

PLA-ZE-30-01-24/1-TB

## Application:

### Objective

Development of a flexible lashing point to be independent of the existing container lugs. The focus of the development was on maximum flexibility and highest load capacity.

### Basis of the modular system

A special lashing strap is hooked into the existing container lugs using adapters with snap hooks at the available lashing points. This forms the basis for the flexible use of additional lashing straps.



### Maximum load capacity

By utilizing all the lashing points available in the container, the system achieves a maximum load capacity.



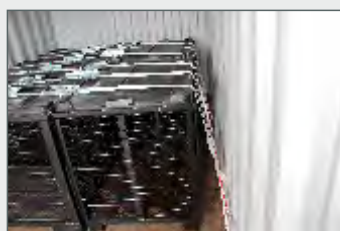
### Vertical use











Due to its design, the system can be used in both vertical and horizontal applications. In vertical use, your goods can be directly secured to the container wall.



### Horizontal use

In horizontal use, it is possible to combine the system with a low binding. With our double ratchet, multiple uses (e.g., outbound and return trips) are possible.



-   CERTIFIED
-   MAXIMUM LOAD CAPACITY
-   INDIVIDUAL PRODUCTION
-   CTU CODE COMPLIANT
-   RECYCLABLE



### Did you know?

We are one of the few manufacturers of cargo securing products with a production facility in Germany.

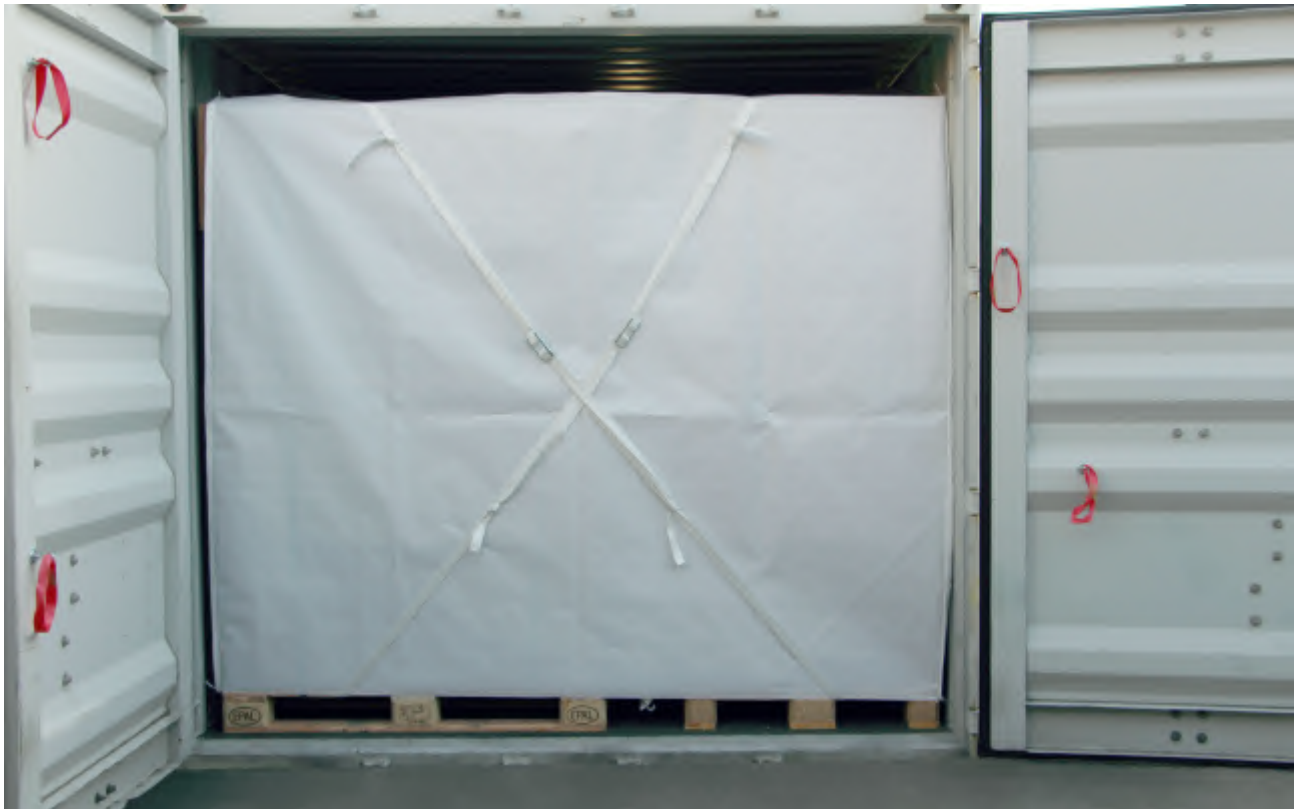
Our customers benefit, for example, from short delivery times and a highly flexible adaptation of our products to specific customer requirements.

## Here you will find



- Certificates
- User Information





### Application purpose

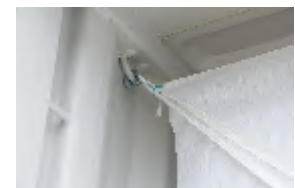
Our [R] Lashing Full Safety is a full-area restraint system designed for use in containers. The system has been specifically developed by us to secure goods or small packages from falling out.

[R] Full Safety keeps your cargo safely and effectively secured from the container door through a combination of a flat tarpaulin and stitched webbing. Since we have various variations in our product range, we can meet your requirements and offer you the optimal solution.

Additionally, employees at the unloading location are also protected, as the Full Safety prevents packages from falling out when opening the container doors.



Fast attachment with hooks



Completely pre-assembled













Closure using strap buckles

PPH/RSR/26-11-20/1TB



## Advantages

- Quick and easy handling in everyday use
- Cargo is reliably and effectively secured
- Optionally pre-assembled with closures and hooks with button safety
- Made from robust PP tape fabric
- Use of certified Lashing (R) webbing in 32/38 mm width
- Retaining force up to 5,200 kg according to CTU Code 2014 calculation
- Recyclable

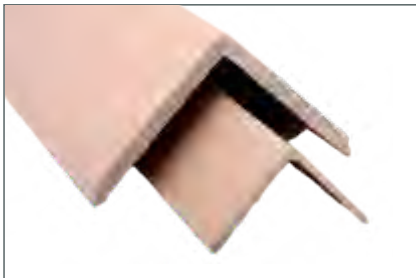
-   CERTIFIED
-   5,2 TONS MAX
-   INDIVIDUAL PRODUCTION
-   CTU CODE COMPLIANT
-   RECYCLABLE

## Standard article

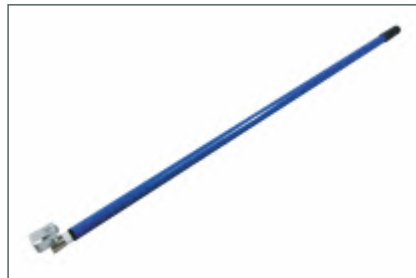
Designation	Dimensions	Quantity Pallet	Article Number
Full Safety tarpaulin	2.000 x 2.300 mm	100 Stück	24571
Full Safety tarpaulin	2.250 x 2.250 mm	250 Stück	25519-E
Full Safety tarpaulin pre-threaded	2.250 x 2.250 mm	180 Stück	25653-E



## Makes good even better



Edge protection cardboard



Magnetic positioning aid



Battery lashing tensioner LT38e

## Technical data

- Material: robust PP tape fabric
- Use of certified Lashing (R) webbing in 32/38 mm width
- Optionally pre-assembled with button hooks and closures for easier and faster application

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

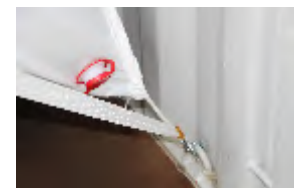
Our (R) Lashing Full Safety is a full-area restraint system with an integrated buffer bag for use in containers. This combination allows us to reduce the distance to the door, ideally achieving a form closure and thereby securely restraining your goods. The special design prevents the goods from exerting pressure on the doors.

Full Safety with buffer cushion can be installed after loading the container as a final step in the loading process. The attached strap, combined with a refillable air cushion, reliably and safely keeps your packages away from the container door.

Additionally, employees at the destination are protected, as no packages can fall out when opening the container doors with our Full Safety system. Different valve types also allow for quick and efficient filling of the buffer cushions. The flexibility in valve types enables you to choose the same valve as on your buffer cushions.



Various options available



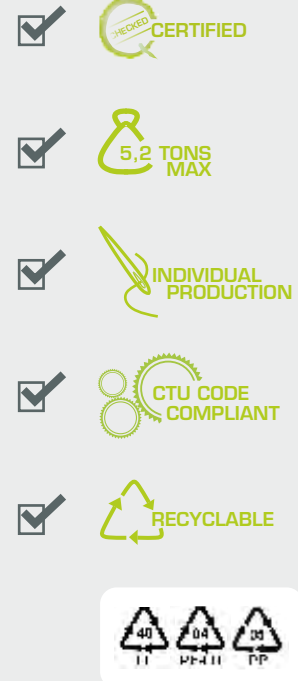
Pre-packaged on request



Can create form closure to the door

## Advantages

- Quick and easy handling in everyday use
- Cargo is secured reliably and effectively
- Optional hooks with button safety
- Optional pre-packaged with button hooks and fasteners
- Use of tested Lashing (R) webbing in widths of 38 to 50 mm
- Retaining force up to 5,200 kg according to CTU Code 2014 calculations
- Custom designs also possible, recyclable



## Standard article

Designation	Dimensions	Design	Article Number
Full Safety dunnage bag	1.500 x 2.400 mm	SMART valve	22367
Full Safety dunnage bag	1.800 x 2.400 mm	SMART valve	12671
Full Safety dunnage bag	2.000 x 2.300 mm	SMART valve	23267-E
Full Safety dunnage bag	2.000 x 2.400 mm	SMART valve	22753

## Makes good even better



Positioning aid



Makita battery blower



Battery lashing tensioner LT38e

## Technical data

- Robust stowage cushion
- Use of certified Lashing (R) webbing in widths of 38-50 mm
- Optional pre-packaged with button hooks and fasteners for effective and quick attachment

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

An improvement over existing battery tensioning devices available on the market. The objective of the development was to keep the weight very low, to avoid manual operation with a lever, and to ensure consistent results.

We achieve all these requirements with our LT38e and LT38e Performance, significantly increasing your productivity when using our lashing systems and simplifying the application.

In addition to its unbeatable weight of only 2.8 kg, it is a small and powerful device that requires no manual force. To ensure that the results are identical at all times and by every employee, as well as to prevent damage to the goods, we have integrated a torque setting.



adjustable torque for reproducible pre-tensioning forces



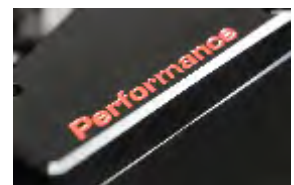
automatically opening/closing band brake



LT 38e (up to 500 daN Pre-tensioning)



LT 38e Performance (800 daN)



Ideal for [R] White Lash Web

PHASE-M15-01-24/1-TB












# Battery tensioner LT38e/Performance

## Advantages

- 30% lighter than comparable battery tensioners on the market
- Up to 800 daN pre-tensioning force achievable
- Adjustable torque preset
- Pre-tensioning forces are reproducible every time
- Automated band brake
- One-handed operation
- Reliable Milwaukee base unit
- Lithium-ion batteries with no self-discharge

Environmental notice: Do not dispose of Li-Ion batteries in household waste. Dispose of only in designated collection boxes or through specialized retailers.

-   CERTIFIED
-   QUALITY GRADE 3
-  INDIVIDUAL PRODUCTION
-   CTU CODE COMPLIANT
-   RECYCLABLE

## Standard article

Designation	Performance	Content	Article Number
Battery Lashing tensioner LT38e	up to 500 daN	Device, 2x battery, 1x charger	25645
B. Lash. Ten. LT38e Performance	up to 800 daN	Device, 2x battery, 1x charger	26015



## Makes good even better



[R] White Lash Web, various widths/lengths



Webbing cutter



Holding magnet

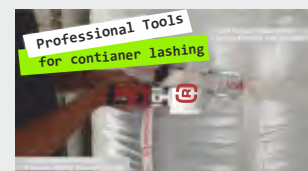
## Technical data

- 20 Torque settings
- 2x Li-Ion battery 12 V with 2.000 mAh or 4.000 mAh
- 1x charger from Milwaukee
- Weight
  - LT38e: 2,80 kg
  - LT38e Performance: 3,00 kg

## Here you will find



- Certificates
- User Information



- Application Video



## Application purpose

Extensive pressure often rests on the edges of the goods, which can damage them without protection. To prevent this and to reliably absorb the forces from the lashing, corner protection should be applied. Since the corner protection is only used once in the container, cardboard/paper corner protection is the first choice. We offer this in many dimensions and qualities, allowing us to meet your individual requirements.

A corner protector can also serve multiple functions in your application. It can stabilize the package, bridge gaps, and distribute forces over a larger area.

To secure the straps at height, we have corner protection elements with strap guides. This is complementary when used with our White Lash or Lashing Special.



Standard



With strap guide



Water-resistant / printed

PKSWPA21122011B

# Edge protector angle cardboard rectangular

## Advantages

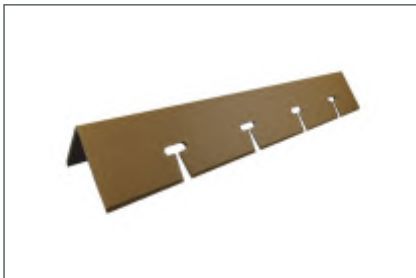
- Protection of your goods
- Protection of the strap/banding
- Available with custom printing upon customer request
- Available in water-resistant version upon customer request
- Environmentally friendly
- 100% recyclable



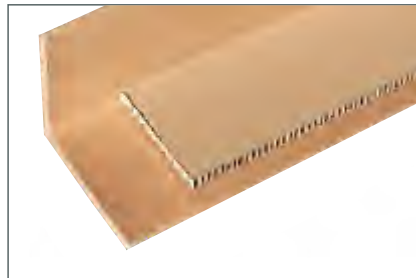
## Standard article

Designation	Dimensions	Design	Article Number
Kantenschutz eckig	600 x 100 x 100 x 8 mm	without milling	11604
Kantenschutz eckig	800 x 100 x 100 x 8 mm	without milling	14097
Kantenschutz eckig	1.200 x 150 x 150 x 9 mm	with „Mushroom“ milling	25404
Kantenschutz eckig	1.800 x 150 x 150 x 9 mm	with „Mushroom“ milling	24354
Kantenschutz eckig	2.200 x 150 x 150 x 9 mm	with „Mushroom“ milling	24567

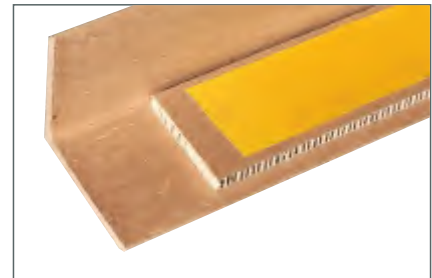
## Makes good even better



With strap guide for securing to the lashing



With padding for product protection



In self-adhesive version

## Technical data

- Material: PAP (cardboard)
- Construction: solid

## Here you will find



- Certificates
- User Information



- Application Video



**Application purpose**

For the shipping of "non-cubic" packages, such as drums, IBCs, big bags, octabins, or coils, it is often necessary to use a special edge protection to secure your goods and protect them from damage. Additionally, the edge protection increases the contact area for distributing the forces from the lashing. This can play an important role, especially with flowable materials.

We offer various designs of edge protection elements for securing. The classics are the quarter shells, which are mainly used for barrels and IBCs. However, we also have a flexible edge protection (FlexProtect). This can particularly show its strengths with big bags, octabins, or coils, as it can adapt perfectly to the goods.

All versions are available in standard design or with integrated strap guides.



Quarter shell for IBC containers



Quarter shell for steel drums



Flex Protect for plastic barrels



# Edge protection cardboard round

## Advantages

- Protection of the straps
- Protection of the goods
- Distribution of forces over the surface of the goods
- Curvatures adapted to the load units
- 100% recyclable



## Standard article

Designation	Dimensions	Design	Article Number
Edge protection round	1.000 x 200 x 15 mm	for IBC	22972
Edge protection round	850 x 610 x 10 mm	for drums	22348

## Makes good even better



Battery tensioner for straps



Drum securement single-use/multi-use



Interlayer for stabilization (cardboard)

## Technical data

- Material: PAP (cardboard)
- Construction: solid

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

The "tools of the trade" at the ramp. For various situations, we have developed high-quality products that make everyday life easier.

Our products are designed from practice for practice, which is why they are 100% user-friendly.

The high-quality materials make the tools true "tools of the trade," clearly distinguishing them from cheap products on the market.

There is no such thing as a universal tool. However, we have the right solution for (almost) every case.



Webbing scissors



Webbing safety cutter



Holding magnet with loop

PH-LS-201-01-264-1-B

**A selection of additional accessories**

**Double ratchet**

Our double ratchet is used whenever a standard closure is unsuitable, for example, when used for the forward and return transport of goods or when the goods are only transported internally.



**Ratchet tensioner for straps**

Ideal as an entry-level tool for tensioning straps, e.g., in lashing restraint systems. For more comfort, we recommend our modern battery-operated tensioning devices.



**Buckles**

For every strap, we naturally offer the appropriate buckle for fastening. We can provide you with different designs and strengths.



**Hooks**

Our drop-forged hooks are available in various sizes to match our White Lash straps.



**Reefer Lashingpoint**

With the flexibly deployable reefer lashing point, you can create any lashing points in refrigerated containers. It is inserted into the floor rails and fixed at the desired location using a torque wrench.



**TESTED IN PRACTICE**



**MAXIMUM LOAD CAPACITY**



**RECYCLABLE**



**Did you know?**

As a manufacturer, we have an extensive network for material procurement.

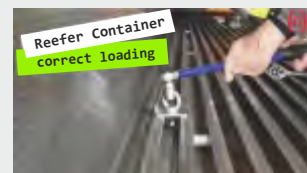
Benefit from our manufacturer prices and request a non-binding quote.

We are happy to assist you.

**Here you will find**



- Certificates
- User Information



- Application Video







## Application purpose

Our DEKRA certified [R] White Line dunnage bags are used, for example, in truck or container shipping. The Rothschenk [R] White Line dunnage bags were developed with a focus on cost savings for the customer. This is evident, for instance, through weight-optimized material thicknesses, without compromising on quality for the required application.

The type of cargo you want to secure is a relevant factor when choosing the right dunnage bag. Our [R] White Line dunnage bags are the right choice for goods that have a smooth surface of packaging, such as cardboard boxes or product packaging. Additionally, they are ideal for use in single-use shipping due to reduced material usage.

Most loading schemes can be implemented with standardized formats. We offer all common sizes, which are very competitively priced due to large quantities.



Plastic plug adapter



Quick Connect plastic



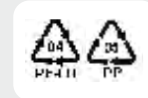
Quick Connect aluminium



# White Line dunnage bag

## Advantages

- Certified by DEKRA
- Moisture-resistant
- Environmentally friendly, 100% recyclable
- Easy & flexible to use
- Easily accessible valve position
- Quick filling thanks to Rothschenk filling systems
- Recycling content of 8%



## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
White Line	600 x 900 mm	1.000 pieces / 100 pieces	24964-A1
White Line	900 x 1.200 mm	750 pieces / 85 pieces	23365-A1
White Line	900 x 1.800 mm	600 pieces / 65 pieces	23367-A1
White Line	1.200 x 2.100 mm	400 pieces / 40 pieces	25244-A1

## Makes good even better



P.A.M. battery blower with Quick Connect



Air pressure gun with Quick Connect plastic



Air pressure gun with 90° angle adapter

## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART



## Here you will find



- Certificates
- User Information





## Application purpose

[R] Red Line dunnage bags are both robust and affordable. With Level 1 certification and approval by the AAR, they are optimal for most loading situations. Rothschenk's Red Line series dunnage bags are used to fill existing voids, creating a form fit between goods and the container wall. Customers can use dunnage bags for load gaps of up to 500 mm.

The filling of the dunnage bag can be done either with a stationary compressed air connection or via a battery-operated blower. One of the biggest advantages of our dunnage bags is the significant time savings compared to conventional techniques, such as using wooden pallets.

An advantage of the Red Line is the ability to release air afterwards and realign the position of the dunnage bag.



Compressed air gun



Digital filling gun



Makita battery blower











PHL:SP29-11-20/1-TB

## Advantages

- Meets AAR Level 1 according to AAR guidelines (Association of American Railroads)
- Resistant to mechanical damage due to laminated fabric
- Moisture-resistant, environmentally friendly, 100% recyclable
- Easy and flexible to use, optimally accessible valve position
- Automatically closing valve with locking mechanism for venting
- Quick filling with our Rothschenk filling systems
- Recycling content 8%

## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Red Line	600 x 900 mm	1.100 pieces / 80 pieces	21877-A1
Red Line	600 x 1.200 mm	750 pieces / 75 pieces	21878-A1
Red Line	900 x 1.200 mm	650 pieces / 60 pieces	21879-A1
Red Line	900 x 1.800 mm	500 pieces / 45 pieces	21880-A1
Red Line	1.200 x 2.100 mm	360 pieces / 30 pieces	21884-A1
Red Line	1.500 x 2.400 mm	250 pieces / 25 pieces	22023-A1

-   **CERTIFIED**
  -   **QUALITY GRADE 2**
  -  **INDIVIDUAL PRODUCTION**
  -   **CTU CODE COMPLIANT**
  -   **RECYCLABLE**
- 

## Makes good even better



Makita battery blower with Quick Connect



Quick fill gun with SMART valve adapter



Comp. air gun with digital pressure gauge

## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART



## Here you will find



- Certificates
- User Information



- Application Video





### Application purpose

[R] Bag Pro Line is our robust airbag in professional quality for filling gaps to achieve a form closure. Thanks to the higher material thickness and multi-layer construction, it is more resistant to mechanical damage, such as abrasion or chafing.

The [R] Bag Pro Line is available for loading gaps of up to approximately 500 mm or as a 3D variant for loading gaps of up to 800 mm. In addition to standard sizes, we can also offer custom solutions. This includes not only custom sizes but also the selection of our various valves. Since a construction of up to four layers is possible, our Pro Line can also be used as a fixed installation. This can be further customized through the use of different fastenings and venting aids.

With our production "Made in Germany," we benefit from short delivery times and manufacturing periods.



SLIM valve



TURBO valve



BIG valve



## Advantages

- Higher strength against chafing
- Higher abrasion resistance
- Less sensitive to edges compared to conventional cushions
- Moisture resistant
- Environmentally friendly, 100% recyclable
- Easy and flexible to use
- Custom manufacturing with all types of valves possible
- Quick filling with our Rothschenk filling systems
- Available in almost all custom sizes



## Individualanfertigung in den Breiten

270 / 600 / 700 / 900 / 1.000 / 1.200 / 1.500 / 1.800 / 2.000 mm

Lengths according to customer specifications

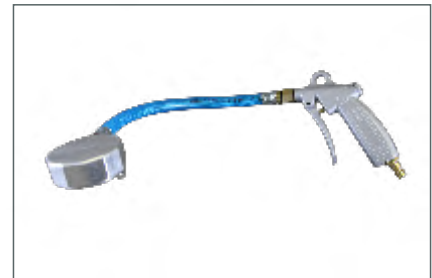
## Makes good even better



Makita battery blower with SMART adapter



Makita battery blower with TURBO adapter



Air pressure gun with BIG valve adapter

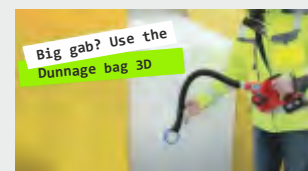
## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART, SLIM, TURBO, or BIG

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

Depending on the size, conventional blocking bags are no longer suitable for large loading gaps. 3D blocking bags have a special design and provide a significantly larger contact area with the cargo. Therefore, they are excellent for securing loads in gaps of up to 800 mm that standard blocking bags cannot cover.

The unique design ensures that the blocking cushion fits flush against the entire height of the load. This also reliably prevents the shifting of packages.

During the production of a 3D cushion, its special properties are taken into account. A special folding technique ensures that the cubic shape is automatically achieved during the filling process. Particularly abrasion-resistant materials make our products reusable multiple times upon request, combined with high moisture resistance.



SMART valve



TURBO valve



BIG valve (3D as a saddle bag)

## Advantages

- Suitable for individual blocking gaps
- Resistant to mechanical damage during transport
- Moisture-resistant
- Environmentally friendly, 100% recyclable
- Easy and flexible to use
- Easily accessible valve position
- Quick filling with compatible Rothschenk filling systems
- Available in all common sizes



## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Red Line 3D	1.450 x 900 x 560 mm	190 pieces / 20 pieces	22968
Red Line 3D	2.200 x 900 x 560 mm	140 pieces / 17 pieces	22338
Red Line 3D	2.400 x 900 x 560 mm	140 pieces / 16 pieces	22154
Red Line 3D	3.200 x 1.000 x 800 mm	85 pieces / 10 pieces	22932

## Makes good even better



Makita battery blower with Quick Connect



Quick fill gun with quick connect adapter



Druckluftpistole mit digitalem Manometer

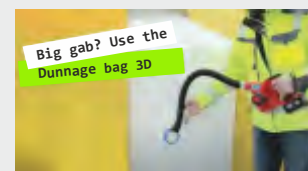
## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART, TURBO, or BIG

## Here you will find



- Certificates
- User Information



- Application Video



**Application purpose**

SAM is the abbreviation for "System of Anti-slip Material" and is based on the special coating of the retention system.

The retention system, specifically developed for temperature-controlled transport and tailored to containers and rigid vehicle structures, is used whenever the lack of tie-down points significantly complicates load securing conditions. In addition to specific modes of transport, our SAM can also be used in any standard container.

With the SAM blocking cushion, your load unit is securely enclosed with an official load securing system. To achieve the certified retaining force, our SAM features a special anti-slip coating on both side cushions. This allows for a tested and certified retaining force of up to 10,000 daN - completely without tie-down points!



Tilt test up to 53° inclination



High-tech anti-slip coating













Valve extension (TURBO valve)

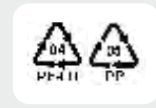
PSM-04-12/20/11/B



**Advantages**

- Certified by TÜV Rheinland
- No lashing equipment, lashing rails, or lashing eyes required
- Quick and easy application
- Also suitable for temperature-controlled transport
- Pre-assembled for quick attachment
- Customizable for individual applications
- Quick filling with our Rothschenk filling systems
- Positioning aid for easy insertion
- Recyclable

-  
-  
-  
-  
-  



**Standard article**

Designation	Dimensions	Quantity Pallet / Carton	Article Number
SAM	850 x 2.300 mm	50 pieces / 4 pieces	21051-E
SAM	1.950 x 2.300 mm	25 pieces / 3 pieces	21310

**Makes good even better**



Quick fill gun with Quick Connect adapter



Makita battery blower with TURBO adapter



Positioning aid for SAM

**Technical data**

- Material: robust PP ribbon fabric and PE liner
- Valve types: SLIM, SMART, TURBO
- optionally with TURBO valve extension for filling from greater distances
- high-tech anti-slip coating

**Here you will find**



- Certificates
- User Information



- Application Video



**Application purpose**

In the shipping of goods in intermodal transport, different loading schemes arise from correct load distribution in containers and trucks to optimally utilize the truck and container while complying with legal requirements. By considering axle loads or weight distribution, larger voids can frequently occur. To achieve a combination of the large support area of a 3D dunnage bag with the high load capacity of a standard dunnage bag, we have developed the Dually dunnage cushion. Due to its special manufacturing process, these dunnage bags are available in all qualities (White, Red, Pro-Line).

For quick and simple filling, our innovative Dually adapter was developed. This can be used with both our battery-operated blowers and the standard filling gun. It allows for simultaneous and even filling of both dunnage cushions. The Dually Bag replaces the use of pallets to fill gaps, providing both weight and cost savings.



Battery blower with Y-hose



Quick fill gun with Y-hose



Also usable horizontally

P4PL-SP-DB-05-12-20/1-18

## Advantages

- For voids up to 100 cm
- Easily accessible valve position
- Quick dual filling with Rothschenk Y-adapter
- Available in all common standard sizes
- Resistant to mechanical damage (depending on the grammage)
- Moisture-resistant
- Environmentally friendly and 100% recyclable
- Recycling content up to 8%



## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Dually Bag	900 x 1.200 mm	325 pieces / 25 pieces	26299
Dually Bag	1.200 x 1.800 mm	90 pieces / 12 pieces	26037
Dually Bag	1.200 x 2.100 mm	200 pieces / 6 pieces	26073

## Makes good even better



Y-hose with Quick Connect adapter



Makita battery blower with Y-hose



Fast filling gun with Y-hose

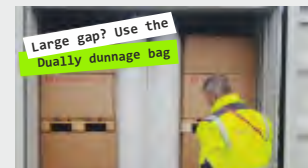
## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

Larger voids can occur both crosswise and lengthwise to the direction of travel. Often, 3D cushions are used for this purpose, but they do not have the same pressure stability as traditional air bags. In addition to our dual cushions, we have also developed our double chamber cushions.

These can absorb the forces exerted by the load and adapt to various gaps, filling even large voids.

Another significant advantage is the central filling of both cushions through a valve. This ensures an even distribution of the introduced air at all times. Our double chamber cushions are always custom-made, for example in our fixed installation. Upon request, they can also be equipped with automated filling.



Various types of valves possible



For large voids













Very robust construction



## Advantages

- Filling large voids
- High load capacity
- Highly variable, infinitely inflatable in width
- Central filling valve for even inflation
- Very easy to use
- Custom manufacturing according to customer specifications

-   CERTIFIED
-   QUALITY GRADE 3
-   INDIVIDUAL PRODUCTION
-   CTU CODE COMPLIANT
-   RECYCLABLE

- Recycling labeling



## Makes good even better



Makita battery blower with Quick Connect



Fast filling pistol with aluminium adapter



Hose with BIG-valve adapter

## Technical data

- Outer cushion: PP (polypropylene) ribbon fabric, coated
- Inner cushion: PE (polyethylene) film
- Valve: BIG, SMART, TURBO, SLIM

## Here you will find



- Certificates
- User Information



- Application Video



**Application purpose**

Pallets are standardized. The goods on the pallet are usually not. Sometimes, the goods have a so-called underhang to the pallet, meaning they have smaller dimensions than the base area of the pallet. This raises the question of whether it constitutes a transportable unit. This is often difficult to assess. To ensure safety in load securing, we have developed our saddle bag. By using it, you can fill voids and achieve form closure.

Another application area is the central positioning of pallets in containers and trucks with fixed structures, for example, to comply with axle loads and proper weight distribution. This creates large gaps that can be filled with a 3D-constructed saddle bag.

The two stowage bags are always connected with a fabric at the correct distance, providing good lateral stabilization of the pallets and reducing the risk of tipping. Furthermore, it can also help reduce the vertical movement of the package.



For gaps in the direction of travel



In the case of pallet undercut




Across the direction of travel

## Advantages

- Compensates for the storage of goods to the pallet
- Possible with classic air bags or 3D versions
- Optimal for weight distribution
- Additional holding function
- Additional tipping protection
- Easiest application and positioning
- One product - multiple functions
- Custom manufacturing according to customer specifications
- Significant time savings
- Different valves (BIG, SMART, SLIM, TURBO) possible

- Recycling labeling



-  CERTIFIED
-  QUALITY GRADE 3
-  INDIVIDUAL PRODUCTION
-  CTU CODE COMPLIANT
-  RECYCLABLE

## Makes good even better



Makita battery blower with SMART Adapter



Fast filling pistol with plastic adapter



Pistol with venturi nozzle and alu. adapter

## Technical data

- Outer cushion: PP (polypropylene) ribbon fabric, coated
- Inner cushion: PE (polyethylene) film
- Valve: BIG, SMART, TURBO, SLIM

## Here you will find



- Certificates
- User Information



- Application Video



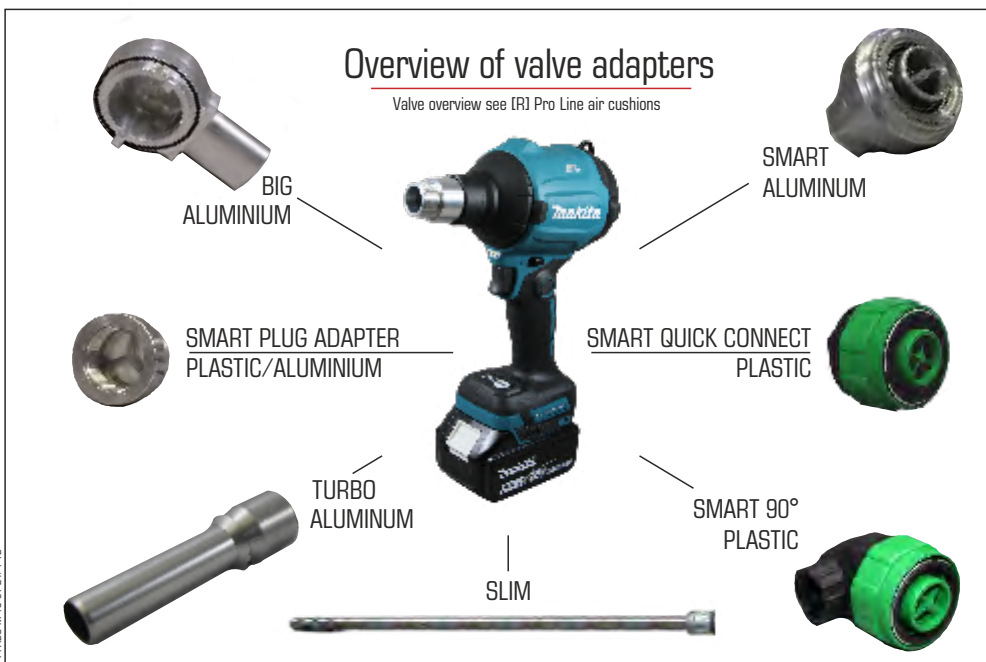
**Application purpose**

Rothschenk battery blowers offer enormous advantages during loading. Without being tied to stationary compressed air systems or power lines, they provide full mobility when filling the air cushions. Additionally, they offer a high level of work safety by avoiding tripping hazards from loose hoses.

Our highest quality filling system is our Makita blower. With the delivery of 2x 5.0 Ah batteries and a fast charger, safe use throughout the entire day is possible. Furthermore, it stands out from all other devices on the market with a filling pressure of 0.18 bar and easily replaces compressed air-operated filling guns. Since we focused on a very flexible range of applications during development, it can be used with all available valve types. To increase comfort during use, the blower can be combined with a strap and flexible hoses. By switching from stationary compressed air systems to mobile battery systems, many of our customers have already achieved significant savings in energy costs for their businesses.

**Overview of valve adapters**

Valve overview see (R) Pro Line air cushions



Flexible connection hose



Cold-resistant hose



Shoulder carrying strap

PHASE-M15-01-24/1-TB



# Battery blower Makita

## Advantages

- Professional quality, high user-friendliness
- Innovative features (filling/suction)
- Extensive selection of adapters
- Easy adapter change thanks to uniform connection thread
- Suitable for all Rothschenk valves
- Stable screw connection on the housing
- Compatible with other 18 V Makita battery devices

Environmental notice: Do not dispose of Li-Ion batteries in household waste. Disposal should only be done in appropriate collection boxes or through specialized retailers

## Standard article

Designation	Performance	Content	Article Number
Makita SMART plastic	18V	Device, 2x battery, 1x charger, strap	26192
Makita SMART aluminium	18V	Device, 2x battery, 1x charger, strap	26191
Makita TURBO aluminium	18V	Device, 2x battery, 1x charger, strap	26193
Dually Adapter with hose and adapter to 2x SMART valve			26002



## Makes good even better



Quick Connect directly screwed onto the device



TURBO adapter directly attached to the device



Makita battery blower with SLIM adapter

## Technical data

- Airflow: 785 (l/min.)
- 2x Li-Ion battery 18 V with 5.0 Ah
- 1x fast charger from Makita
- Max. filling pressure: 0.18 bar
- Weight: 1.65 kg (base unit with 5.0 Ah battery)

## Here you will find



- Certificates
- User Information



- Application Video

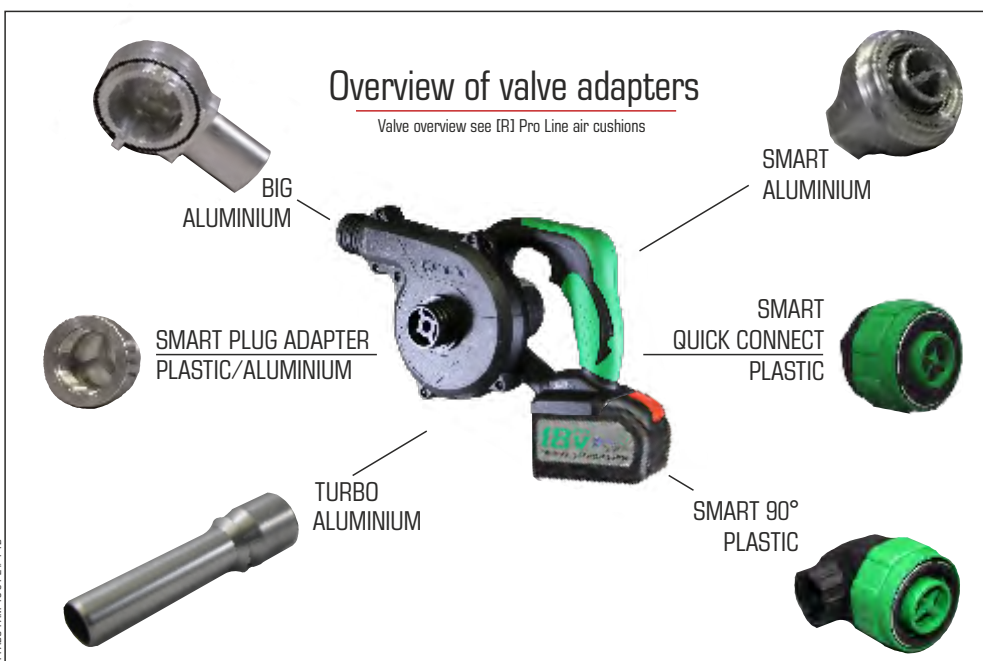


### Application purpose

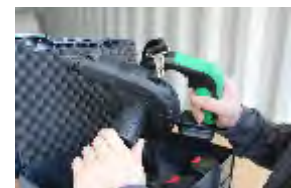
Rothschenk battery blowers are a useful aid at the ramp. Without being tied to stationary compressed air systems or power lines, users have complete freedom when filling the air cushions. Our entry into the battery-powered world of filling systems is the PAM.

Trip hazards from loose hoses are now a thing of the past, significantly increasing workplace safety. Our high-quality filling systems feature powerful interchangeable batteries that ensure long usage throughout the entire workday. In combination with the efficient blower motors, filling the air cushions with the required internal pressures is always guaranteed.

By switching from stationary compressed air systems to mobile battery systems, many of our customers have already achieved significant savings in energy costs for their businesses. Ultimately, we are happy to support our customers on their journey towards greater sustainability in load securing.



Flexible connection hose



Also suitable for suction



Gear coupling as intermediate piece

PHASE-PAM-15-01-24/1-B

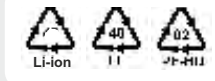
## Advantages

- High user-friendliness
- Innovative features (filling/suction)
- Extensive selection of adapters
- Compatible with all Rothschenk valves
- Developed from application for our industry
- Stable screw connection on the housing

Environmental notice: Do not dispose of Li-Ion batteries in household waste. Disposal should only be done in appropriate collection boxes or through specialized retailers

## Standard article

Designation	Performance	Content	Article Number
PAM SMART plastic	18V	Device, 2x battery, 1x charger, strap	24320
PAM SMART aluminium	18V	Device, 2x battery, 1x charger, strap	24335
PAM TURBO aluminium	18V	Device, 2x battery, 1x charger, strap	24337
Dually Adapter with hose and adapter to 2x SMART valve			26002



## Makes good even better



90° SMART Quick Connect adapter hose



BIG adapter hose



Y-hose for dual filling (Dually Bag)

## Technical data

- 2x Li-Ion battery 18 V with 6,600 mAh
- 1x charger from PAM
- Max. filling pressure: 0.08 bar
- Weight: 1.8 kg (base unit and 4.0 Ah battery)

## Here you will find



- Certificates
- User Information



- Application Video





### Application purpose

Our inflatable bags can be supplied with several types of valves. This ensures you always have the optimal solution, whether for tight loading gaps or multi-way applications. Additionally, you will receive the right filling technology for each valve.

The development focused heavily on user-friendliness and ergonomics. Therefore, we use high-quality materials in this area and emphasize the durability of the filling guns. At Rothschenk, we offer various battery-operated blowers or compressed air filling guns.

What makes us unique are the innovative adapters, so that each type of valve has its own filling adapter that fits both the compressed air gun and the battery blower.



Digital filling pistol with manometer



Pistol with SLIM adapter



Fast filling pistol with SMART 90°



## Advantages

- Professional quality
- High user-friendliness
- Innovative features
- Huge selection
- Compatible systems for Rothschenk valve types
- Developed from practice for practice
- Short delivery times, mostly available in stock



## Standard article

Designation	Connection	Version	Article Number
Pistole SMART plastic	1/4"	Compressed air / Venturi principle	21896
Pistole SMART aluminium	1/4"	Compressed air / Venturi principle	23826
Pistole TURBO aluminium	1/4"	Compressed air / Venturi principle	21036
Pistole 90° SMART plastic	1/4"	Compressed air / Venturi principle	24557

## Makes good even better



Check valve for quick-fill gun



Holding magnet for quick-fill gun



90° Quick Connect for SMART valve

## Technical data

- Material: Aluminum or durable plastic
- Standard compressed air connection
- Lightweight

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

For quick filling of our air bags, we recommend using our powerful battery blowers and robust filling guns.

To ensure maximum utilization, we offer a range of useful accessories. For example, angled adapters for hard-to-reach valve positions, digital compressed air guns with pressure gauge display, or simply practical helpers like a carrying strap for the battery blowers: Rothschenk tools are well thought out and always of the highest quality.

Time savings are a significant factor in daily loading operations, which is why the focus during the development of our tools was on this aspect. You will notice this in small details, such as the fact that our adapters and filling systems are generally compatible. This gives you maximum choice and always ensures you have the right tool at hand.



90° Quick Connect adapter



Magnetic attachment



Carrying strap with carabiner

## A selection of additional accessories

### Positioning aid

This was developed as a three-arm gripper and features a locking mechanism. This allows you to expand your working radius, for example, to position a dunnage bag. The positioning aid is also telescopic.



### Valve opener

Suitable for the SMART valve from Rothschenk, this small helper makes it easier to open and close our SMART multi-way valve. It is available in either robust metal or plastic.



### Level (2/3/4/5) adapter

For higher pressures, we have developed a SMART quick connect adapter with a bayonet lock. The additional screw closure ensures safe filling at higher filling pressures.



### Check valve for compressed air guns.

This allows for higher pressures to be achieved, as 'overflow' during overpressure is prevented. The filling process can also be briefly interrupted without any air escaping.



 TESTED IN PRACTICE



 MAXIMUM LOAD CAPACITY



 RECYCLABLE



### Did you know?

We develop our tools always close to practice.

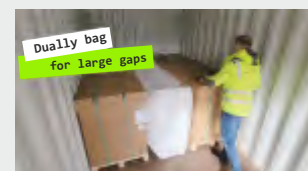
Many of them have been created based on suggestions from our customers.

Just reach out to us. We would be happy to come up with something for you.

## Here you will find



- Certificates
- User Information



- Application Video





### Application purpose

[R] Desiccants are an important aspect of packaging protection and thus also product protection. A container is exposed to different temperatures and humidity conditions during intermodal transport, which includes transportation by truck, rail, and ship.

Due to temperature differences in various climate zones or times of day, so-called 'container rain' can occur. Moisture condenses on the ceiling of the container and can then drip onto your goods.

To protect sensitive items and moisture-sensitive outer packaging such as cartons from moisture damage, desiccants have been developed. They have the ability to absorb and store maximum moisture from the surrounding air. Rothschenk desiccants are available in various designs tailored to the required applications.



Practical hooks



Practical positioning aid

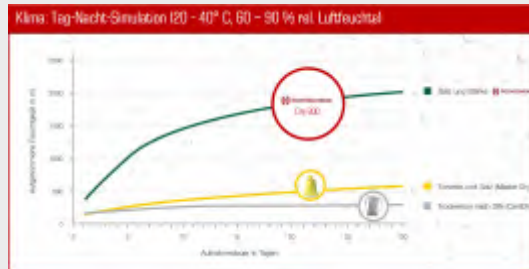


Space-saving horizontal design



**Advantages**

- Food law compliant
- Safely absorbs > 200% moisture
- No toxic or harmful substances
- Disposal via regular commercial waste
- Made in Germany



**Standard article**

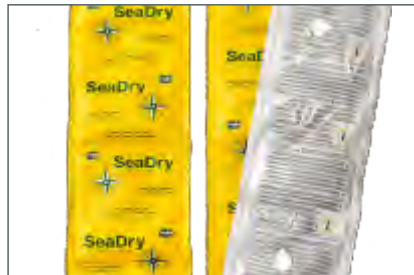
Designation	Version	Quantity Pallet / Carton	Article Number
Desiccant 600 g	chain with hook	800 pieces / 20 pieces	22140
Desiccant 800 g	bag with hook	504 pieces / 12 pieces	25566
Desiccant 1.200 g	hanger with hook	400 pieces / 10 pieces	23658

- CERTIFIED**
- QUALITY GRADE 3**
- INDIVIDUAL PRODUCTION**
- CTU CODE COMPLIANT**
- RECYCLABLE**

**Makes good even better**



Positioning aid for desiccant



Adhesive dots for securing on the goods



Data Logger: Data retrieval via USB connection

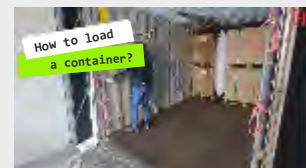
**Technical data**

- Composition: Salt and starch (calcium chloride)
- complies with Regulation 1907/26/EC, Article 31
- various designs available.

**Here you will find**



- Certificates
- User Information



- Application Video



## Application purpose

Straps are the tried-and-true classic in load securing – ideal for securing cargo in trucks or vans. Available in many designs, such as durable ratchet straps or ergonomic long lever ratchets.

With the two-part straps made of polyester fabric and with hook ends, you can easily and quickly secure your load on trucks and transport vehicles.

Additionally, our straps are equipped with high-quality, solid ratchets. You can choose between standard ratchets or ergonomic long lever ratchets for your load securing.



Different strengths



Professional ratchet

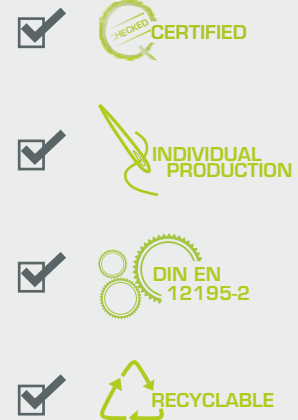


Long lever ratchet (Ergo)

PHC08122011TB

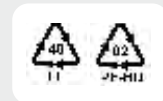
## Advantages

- High-quality polyester straps for professional use
- Easy and quick to attach
- Stable strap construction for longer durability and high abrasion resistance
- Our lashing straps comply with EN 12195-2
- Available with custom printing upon customer request
- Well-known and common application.

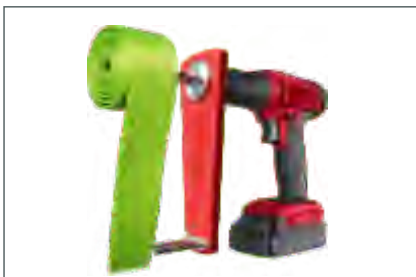


## Standard article

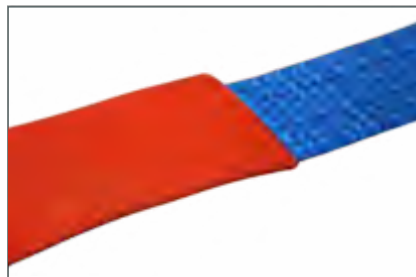
Designation	Version	Quantity Pallet / Carton	Article Number
Ratchet strap with ratchet handle	8,00 m	240 pieces / 10 pieces	11088-E
Ratchet strap with long lever ratchet	8,00 m	192 pieces / 8 pieces	12036-E



## Makes good even better



Lashing strap winder for cordless screwdriver



Edge protection sleeve against abrasion



Edge protection plastic

## Technical data

- Material webbing: PES (Polyethersulfone)
- Material fittings: Metal
- certified according to EN 12195-2

## Here you will find



- Certificates
- User Information



- Application Video





### Application purpose

Whenever the load shifts during transport, it is the result of simple physical principles. Our anti-slip products effectively counteract this principle with slip-resistant, quality-tested materials through a simple increase in friction.

As a result, it is often possible to significantly reduce the number of securing devices used. The anti-slip mat is recommended as a cost-effective aid for load securing during container and truck shipping. The bonded rubber granulate significantly increases the friction between the load and the pallet or container floor.

Anti-slip paper/cardboard, on the other hand, is a special kraft paper that has been coated with a friction-increasing layer. It serves, as a layer between the pallet and the goods or between layers of goods, preventing the load unit from shifting within itself.



Antislip pads



Antislip roll



Antislip paper











**Advantages**

Anti-slip mat:

- Serves to increase friction
- Meets the requirements according to VDI guideline 2700ff, sheet 3.2, sheet 9, and 15
- By using (R) anti-slip mats, the number of securing devices needed can be reduced
- Anti-slip mats are suitable for unprotected applications exposed to weather conditions.

Anti-slip paper:

- Slip-resistant material made from coated paper
- Ideal as a top or intermediate layer in pallet packaging

-   **CERTIFIED**
-   **INDIVIDUAL PRODUCTION**
-   **VDI 2700 ff COMPLIANT**
-   **RECYCLABLE**

**Standard article**

Designation	Dimensions	Quantity Pallet / Carton	Article Number
ASM cutting	200 x 100 x 8 mm	7.200 pieces / 100 pieces	11092
ASM strips	800 x 100 x 6 mm	2.400 pieces per pallet	11174
ASM roll	13.600 x 150 x 3 mm	120 pieces / pallet	12135



**Makes good even better**



Edge protection plastic



Edge protection cardboard



Edge protection application-specific

**Technical data**

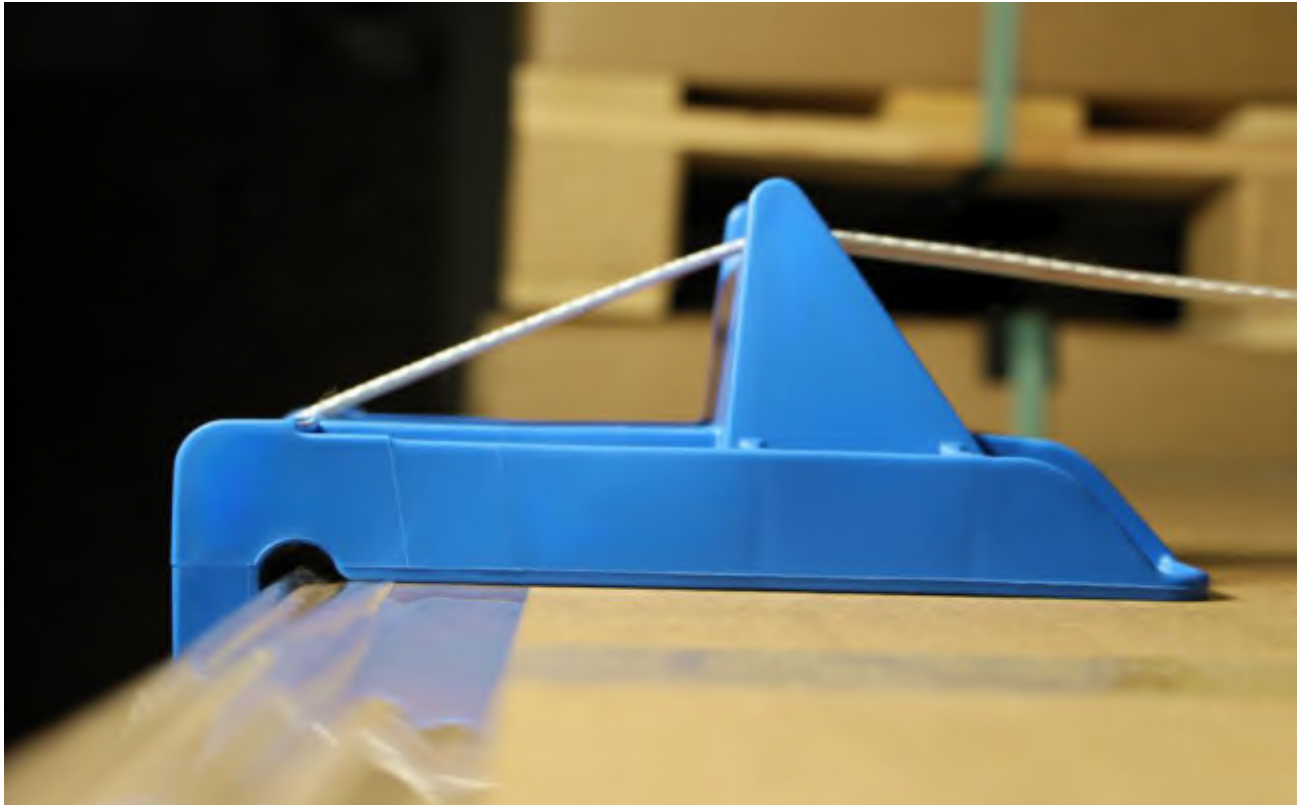
- Material: PU-bonded rubber granulate
- Thicknesses: 3-8 mm
- Temperature resistance: -30 °C to 100 °C

**Here you will find**



- Certificates
- User Information





### Application purpose

Plastic edge protection angles are versatile in cargo securing. However, depending on the application, there are specific shapes, including those for paper rolls, building materials, or other sometimes very sensitive cargo. At Rothschenk, you will find a wide selection of edge protection angles. By tensioning straps or strapping bands over an edge, this particular point of a load is subjected to especially high forces.

Plastic edge protection angles have been specifically developed for cargo securing to redirect the occurring pre-tension forces away from the edge into the surface area. Additionally, the design of the edge protection angles directs the pre-tension forces through the pivot points (K-factor) of the goods. This special construction significantly relieves the edge, and in the case of sensitive loads, it can even do so almost completely.

With their very robust design, plastic edge protection angles are just as stable as they are durable.



95 x 95 mm



180 x 60 mm




173 x 137 mm

PHSWM/20-1220/11B

## Advantages

- Significant relief of the edge
- Robust polypropylene
- Reusable

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## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Nova blue	145 x 135 x 80 mm	1.920 Stück / 96 Stück	10975
Nova black plus	150 x 180 x 60 mm	1.152 Stück / 72 Stück	16721
Edge protection black	150 x 190 x 110 mm	1.108 Stück / 72 Stück	25569



## Makes good even better



Positioning aid, telescopic



Short lever ratchet, 2-piece



Long lever pull ratchet

## Technical data

- Material: PP (Polypropylene)
- Construction: Solid

## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

Building materials can withstand quite a bit. However, our edge protection angles – made of hollow chamber plastic construction – are no exception. Due to their hollow chamber design, they are very lightweight and maximally robust. The edge protection angles are available in standard lengths as well as custom sizes, and they are perfectly suitable not only for building materials but also for cardboard and bagged goods.

Transporting building materials presents a special challenge in load securing. Heavy weights meet rough surfaces and often face exposure to the elements. Therefore, the appropriate edge protection angles must endure a lot.

Rothschenk edge protection angles have rounded edges. The robust plastic (PE) protects both the goods and the securing straps equally. They ensure an even distribution of tension forces on the load, effectively protect against damage, and preserve the securing equipment used.



120 x 120 mm plastic



190 x 190 mm plastic



100% recycling material

PKSWHK 20-02-20-11B



# Edge protection hollow chamber

## Advantages

- Significant edge relief
- Robust polypropylene
- Reusable
- Available in stock
- Custom lengths upon customer request

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## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
EP blue	800 x 120 x 120 x 12 mm	250 pieces / 30 pieces	12159
EP recycling	1.000 x 190 x 190 x 19 mm	125 pieces / 11 pieces	26436
EP orange	1.200 x 190 x 190 x 19 mm	125 pieces / 10 pieces	11165-E



## Makes good even better



Positioning aid, telescopic



Short lever ratchet, 2-piece



Long lever pull ratchet

## Technical data

- Material: PES (polyethersulfone)
- Structure: hollow chamber

## Here you will find



- Certificates
- User Information



- Application Video



## Application purpose

Goods on the truck are constantly changing, and so are the requirements for load securing. For example, round containers like barrels require different edge protection angles than cardboard boxes.

With Rothschenk edge protection angles made of cardboard, we offer you product protection tailored to the loading units. On one hand, this distributes the pre-tensioning forces over the surface of the goods, and on the other hand, it protects sensitive edges from damage.

Additionally, we can also provide flexible solutions, such as edge protection with hooks for hanging on barrels, with optimized strap guidance that keeps the straps in place. We will find the right professional solution for your loading situation.



For low binding



For head and tail lashing



Special solutions possible

PLKWA3SM-07-02244-1TB

# Truck edge protection cardboard

## Advantages

- Stabilizes pallet goods
- Protects sensitive edges
- Protects the strap
- Also available with custom printing upon customer request
- 100% recyclable

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## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
EP angular	800 x 100 x 100 x 8 mm	792 pieces / 25 pieces	14097
Flex protect	700 x 190 x 9 mm	480 pieces / 45 pieces	25846
Flex protect	725 x 800 x 9 mm	100 pieces / 10 pieces	25787



## Makes good even better



Positioning aid for edge protection angles



Lashing strap with ratchet



Long lever ratchet

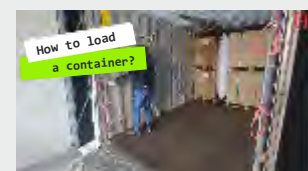
## Technical data

- Material: PAP (Cardboard)
- Construction: solid

## Here you will find



- Certificates
- User Information



- Application Video





## Application purpose

On the truck, loading situations are constantly changing, which means that the required load securing devices are subjected to high stress in order to provide the necessary securing force.

Our dunnage bags are therefore consistently designed as reusable solutions and made from robust materials. In addition, we have a suitable dunnage bags for every loading situation in our range. Whether it's our innovative [R] Dually Bag, the double-chamber cushion, or a 3D dunnage bags: they all share the common feature of being designed for particularly large voids.

If the goods have an underhang, meaning they are smaller than the footprint of the pallet, our saddle bag comes into play. The dunnage bag fills the voids so that a firm closure between the pallets is re-established.



Double chamber for large gaps



Saddle bag for overhang











Max. form closure: 3D storage bag

PHKWS-06-02-11B



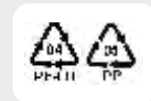
## Advantages

- Made of laminated fabric, resistant to mechanical damage
- Moisture-resistant
- Environmentally friendly, 100% recyclable
- Easy & flexible to use
- Easily accessible valve position
- Quick filling with compatible Rothschenk filling systems
- Custom sizes available.

-   CERTIFIED
-   INDIVIDUAL PRODUCTION
-   VDI / DIN EN COMPLIANT
-   RECYCLABLE

## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
White Line	900 x 1.200 mm	750 pieces / 85 pieces	23365-A1
Red Line	900 x 1.200 mm	650 pieces / 60 pieces	21879-A1
Dually Bag	1.500 x 2.400 mm	135 pieces / 10 pieces	25266
3D Stausack	3.200 x 1.000 x 800 mm	85 pieces / 10 pieces	22932



## Makes good even better



Makita battery blower with Quick Connect



Fast filling pistol with SMART valve adapter



Air pressure gun with digital manometer

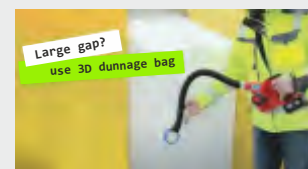
## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART, BIG, SLIM, TURBO

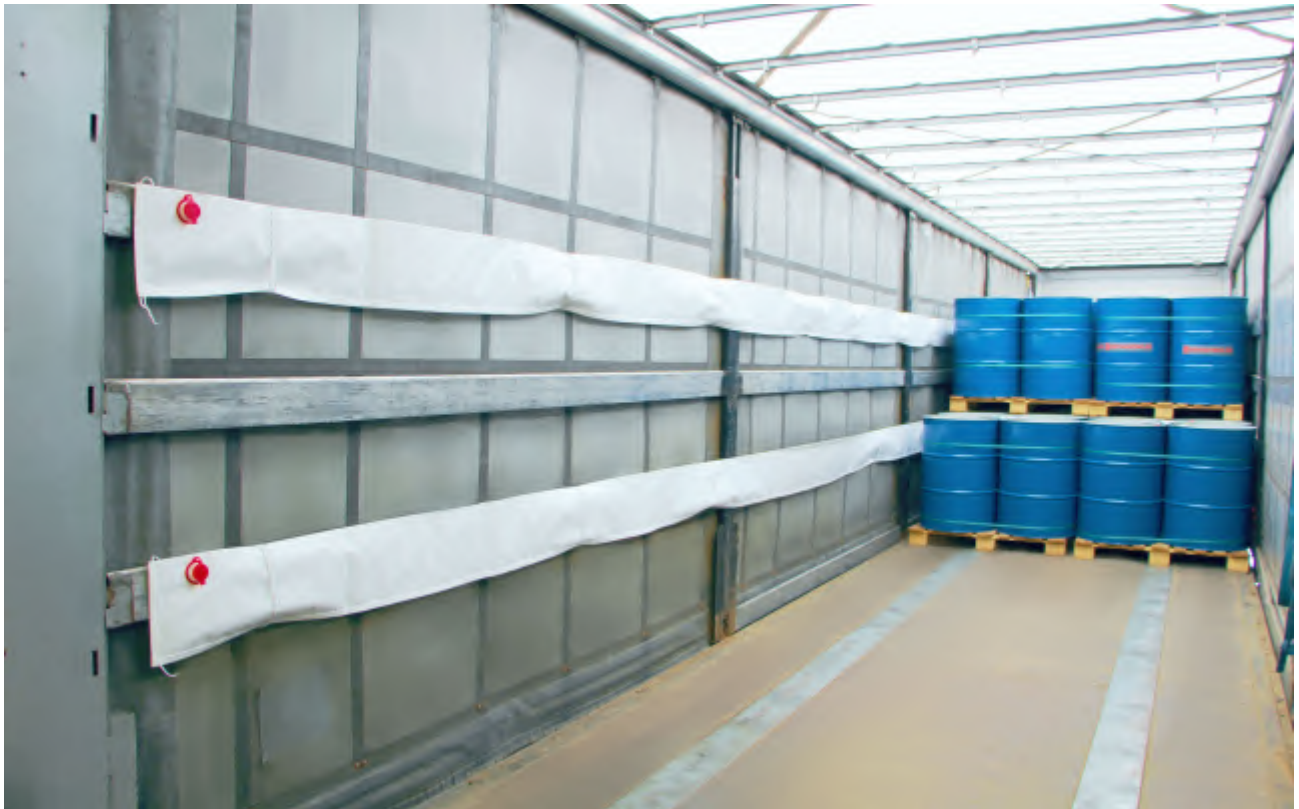
## Here you will find



- Certificates
- User Information



- Application Video



### Application purpose

[R] Tarpaulin cushions have been developed to fill the gaps between the side rails of a truck and the cargo. The goal is to create a form closure and prevent the cargo from tipping over.

They are attached along the entire length of the loading area using rubber bands. After that, loading can proceed as usual.

Once loading is complete, the [R] tarpaulin cushions are filled, with a mobile battery blower or compressed air.

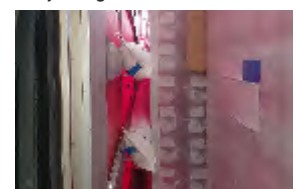
To ensure that the valves are always accessible from the rear side, both sides have a color-coded marking for use on the right or left side.



Quick fastening



Easy filling







Prevents tipping and shifting

PPL-SP-05-12-20/1-B

# Truck clipboard dunnage bag

## Advantages

- TÜV Rheinland certified
- Form closure achievable over the entire vehicle length
- Width 270 mm, flexible adjustable
- Easy operation using a mobile battery blower or compressed air
- Reusable
- Color coding for right/left
- Recyclable

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## Standard article

Designation	Dimensions	Quantity Pallet	Article Number
Clipboard dunnage bag right	270 x 12.600 mm	90 pieces	25279
Clipboard dunnage bag left	270 x 12.600 mm	90 pieces	25280



## Makes good even better



Makita battery blower with Quick Connect



Air pressure gun with SMART valve adapter



Air pressure gun with digital manometer

## Technical data

- Outer padding: PP (polypropylene) ribbon fabric, coated
- Inner padding: PE (polyethylene) film
- Valve: SMART

## Here you will find



- Certificates
- User Information



- Application Video







**Application purpose**

The [R] Truck Lash has been specifically developed for truck transport. It is used for securing loads with heavy cargo units that cannot be loaded form-fittingly on the sides (block formation), such as bagged goods/big bags. Additionally, it can also be used as a head or rear lashing. Due to its special design with a holding strap laid over the cargo, it is possible to load goods in such a way that there are no issues with axle loads.

Another application is the securing of stable cargo units. Often, when loading in a single layer, the maximum permissible payload has not yet been reached. A double-deck loading would be the solution, but how should the load securing be carried out?

The certified [R] Truck Lash (with steel edge barrels) can be used in this case like a head/rear lashing. The loader can achieve optimal axle load distribution. This allows for up to 27% more payload compared to traditional loading methods.



Retention system in driving direction



And rear load securing











Also suitable for block formation

PHTL4801-24/1-TB



**Advantages**

- Up to 27% more cargo per truck
- High cost savings
- Designed as a reusable system
- Suitable for block formation
- For the transport of hazardous goods with steel rim barrels
- EN 12195 compliant for many loading situations

-   **CERTIFIED**
-   **INDIVIDUAL PRODUCTION**
-   **DIN EN NORM COMPLIANT**
-   **RECYCLABLE**

**Standard article**

Designation	Intended Use	Quantity package	Article Number
Truck Lash	barrel loading	100 pieces	25744
Truck Lash clamp lock	flexibel, e.g. Big Bags	100 pieces	25807



**Makes good even better**



Antislip mat Gum



Edge protection cardboard Flex Protect



Ratchet strap

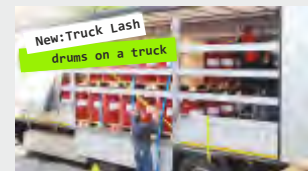
**Technical data**

- Straps: PES (polyethersulfone)
- Optional edge protection in the form of the goods (quarter shell, flexboard, etc.)
- Made in Germany

**Here you will find**



- Certificates
- User Information



- Application Video



### Application purpose

(R) Fixed installations for load securing in trucks are a clever idea for consistent, recurring loading situations. For this nearly fully automated load securing system, we collaborate with renowned body manufacturers.

The fixed installations are as ingenious as they are easy to handle. A device with dunnage bags is installed in the truck, which secures the cargo through an optional automated filling process.

The driver loads the vehicle as usual and then only needs to activate the automated filling process. The dunnage bags are inflated, automatically and reliably securing the load. The deflation of the dunnage bags can also be optionally automated, allowing the truck to be quickly reloaded.



PHFB-1102-24/1TB



Attachment in the roof area







For lateral form closure



Fast loading and unloading

**Advantages**

- Automated load securing process
- Ideal for recurring identical loading patterns
- One-time investment costs
- High sustainability factor
- Significant time savings for the loader

-  **CERTIFIED**
-  **INDIVIDUAL PRODUCTION**
-  **DIN EN NORM COMPLIANT**
-  **RECYCLABLE**

- Recycling labeling



**Makes good even better**



Antislip mat gum



Battery blower Makita



Fixed installations for trailers are also possible

**Technical data**

- The material used varies according to the design
- Made in Germany

**Here you will find**



- Certificates
- User Information



**APPLICATION VIDEO  
COMING SOON**



### Application purpose

Transporting soft building materials, such as insulation, can be a challenge. Therefore, we developed the (R) Y-Cover specifically for delivery to customers. The tarpaulin with strap prevents cargo shifting across the direction of travel and can be quickly opened and re-positioned.

Our Rothschenk Y-Cover is individually applicable for a wide variety of materials and is consistently designed as a reusable system. This saves costs and offers a high degree of flexibility for the loader. An additional goal in the development was to enhance work safety, as corner protection angles were often installed at considerable heights using a ladder. The risk of heavy angles falling has thus been eliminated.

The innovative design allows for very quick yet effective securing of the load. Especially on the last mile, time savings are a significant factor alongside safety.



PHC-80-01247-1B



Place before loading



Load goods







Tighten with ratchet straps



**Advantages**

- maximum work safety
- easy and quick to install
- reusable system
- certified by TÜV Rheinland
- cost-effective

-   **CERTIFIED**
-   **QUALITY GRADE 3**
-   **INDIVIDUAL PRODUCTION**
-   **RECYCLABLE**

**Standard article**

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Y-Cover	1.200 x 1.200 mm	60 pieces / 9 pieces	21041
Y-Cover	1.200 x 2.300 mm	45 pieces / 8 pieces	21040



**Makes good even better**



Antislip mat gum



Long lever ratchet



Magnetic strap winder

**Technical data**

- Material strap: PES (polyethersulfone)
- Material fittings: metal

**Here you will find**



- Certificates
- User Information



- Application Video



### Application purpose

For load securing on trucks and vans, we offer many detailed solutions, ranging from nets and strap protectors to simply practical tools like our ratchet strap winder with magnets.

The latter can be easily attached to a metallic surface using a magnet and allows for the quick rolling up of ratchet straps when they are no longer needed. In addition to the immense time savings, the straps are protected and always kept neatly organized.

Strap protectors also extend the service life of ratchet straps. They are pulled over the free end and prevent damage to the strap when it comes into contact with sharp edges on the cargo.



PLKW20/06-0224/11B



Adjustable preload force attachment



Trailer and transport nets



Cargo Net

**A selection of additional accessories**

**Preload measuring device**

To determine the preload forces applied to the lashing strap.

With display scale in daN.



**Positioning aid for edge protection**

With our telescopic positioning aid, you can also reach high locations. The securing clips allow you to attach edge protection angles quickly and safely.



**Guspako preload aid**

With the Guspako preload aid, you can preset the desired torque. Using the long lever and the slip protection, you can work safely and comfortably.



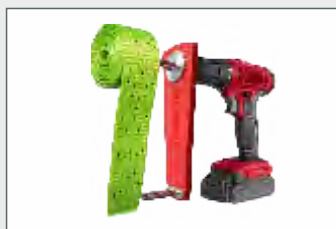
**Magnetic strap winder**

Our strap winder (order number 18156) has a magnetic holder and adheres to all metallic surfaces. With the slotted shaft and crank, the straps are wound up in seconds and remain clean, dry, and free of knots.



**Strap winder for cordless screwdrivers**

Our strap winder is simply inserted into the chuck of a cordless screwdriver and winds the strap without requiring special manual force.



**TESTED IN PRACTICE**



**MAXIMUM LOAD CAPACITY**



**RECYCLABLE**



**Did you know?**

As a manufacturer, we have an extensive network for material procurement.

Benefit from our wholesale prices and request a non-binding quote.

We are happy to assist you.

**Here you will find**



- Certificates
- User Information



- Application Video





**Application purpose**

With the help of a Rothschenk plastic strapping band, you can reliably and securely bundle cartons and loose goods into a load unit. We recommend using a strapping band dispenser cart and a battery-powered tensioning device (e.g., [R] ST25e) for this purpose.

When choosing the right strapping band, various factors such as the nature of the goods (weight, size, etc.) and environmental influences must be considered. The choice of the right wire closure clamp is also crucial. These are available in galvanized, embossed, and phosphated versions. We are happy to assist you in making the right choice for your application.

The distinction between manually tensioning the bands using a hand tensioner or a battery-powered tensioning device should not be underestimated. Here, the properties of the band are crucial for flawless processing.



Dispenser cart with storage tray



Printing possible



Wire closure clamps

PHUR-CP-16-01-24/17-18



## Advantages

- Formation of stable load units, high strength
- Easy and quick to apply
- Cost-effective packaging material
- Bundling small units into large packages
- Available in various widths and with custom printing

## Standard article

Designation	techn. data	Quantity Pallet / Carton	Article Number
Composite band 16 mm	750 daN	60 pieces / 2 pieces	25377
Composite band 19 mm	800 daN	60 pieces / 2 pieces	12913
Composite band 25 mm	1.150 daN	60 pieces / 2 pieces	25380
Composite band 32 mm	2.100 daN	60 pieces / 2 pieces	25382
Wire closure clamps 16 mm	galvanized/embossed	80.000/1.000 pieces	25392
Wire closure clamps 19 mm	galvanized/embossed	60.000/1.000 pieces	25393
Wire closure clamps 25 mm	galvanized/embossed	24.000/500 pieces	25394
Wire closure clamps 32 mm	galvanized/embossed	12.000/250 pieces	25395



## Makes good even better



Battery strapping tensioner [R] ST25e



Reel tensioner



Palletizing needle

## Technical data

- straps: PE (polyester)
- certified from the DNV

## Here you will find



- Certificates
- User Information





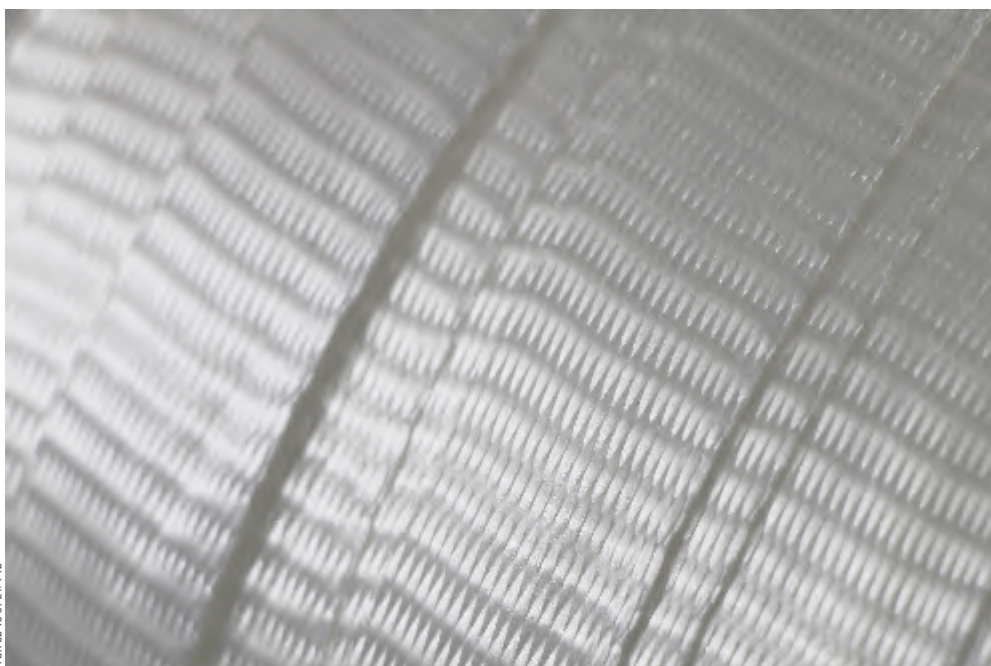
**Application purpose**

With the help of a woven polypropylene strapping band, you can reliably and securely bundle cartons and loose goods into a load unit. We recommend using a strapping dispenser and a suitable tensioning device (e.g., [R] ST25e) for this purpose.

Various factors such as size, weight, and shape of the load influence the choice of the right strapping band. For optimal material combination, there are suitable wire closure clips available in galvanized embossed and phosphated versions.

We are happy to advise you on choosing the right components for your application.

For tensioning the strapping bands, a hand tensioner or, for more comfort, our battery-operated tensioning device [R] ST25e is recommended.



Use with corner protection



Woven strapping band



Wire closure clamps

PHURCB-18-01-24/1-TB

## Advantages

- Formation of stable load units
- Easy and quick to apply
- High strength, cost-effective packaging material
- Bundling small units into stable packages
- Ideal for use at low temperatures
- More flexible than composite straps, various strap widths available



## Standard article

Designation	techn. Data	Quantity Pallet / Carton	Article Number
PE-woven strapping band 16 mm	600 daN	36 pieces / 2 pieces	23169
PE-woven strapping band 19 mm	740 daN	36 pieces / 2 pieces	24101
PE-woven strapping band 25 mm	950 daN	36 pieces / 2 pieces	25391
Wire closure clamps 16 mm	phosphated	80.000 / 1.000 pieces	19502
Wire closure clamps 19 mm	phosphated	60.000 / 1.000 pieces	17825
Wire closure clamps 25 mm	phosphated	24.000 / 500 pieces	14298

## Makes good even better



Battery strapping tensioner [R] ST25e



Reel tensioner



Palletizing needle

## Technical data

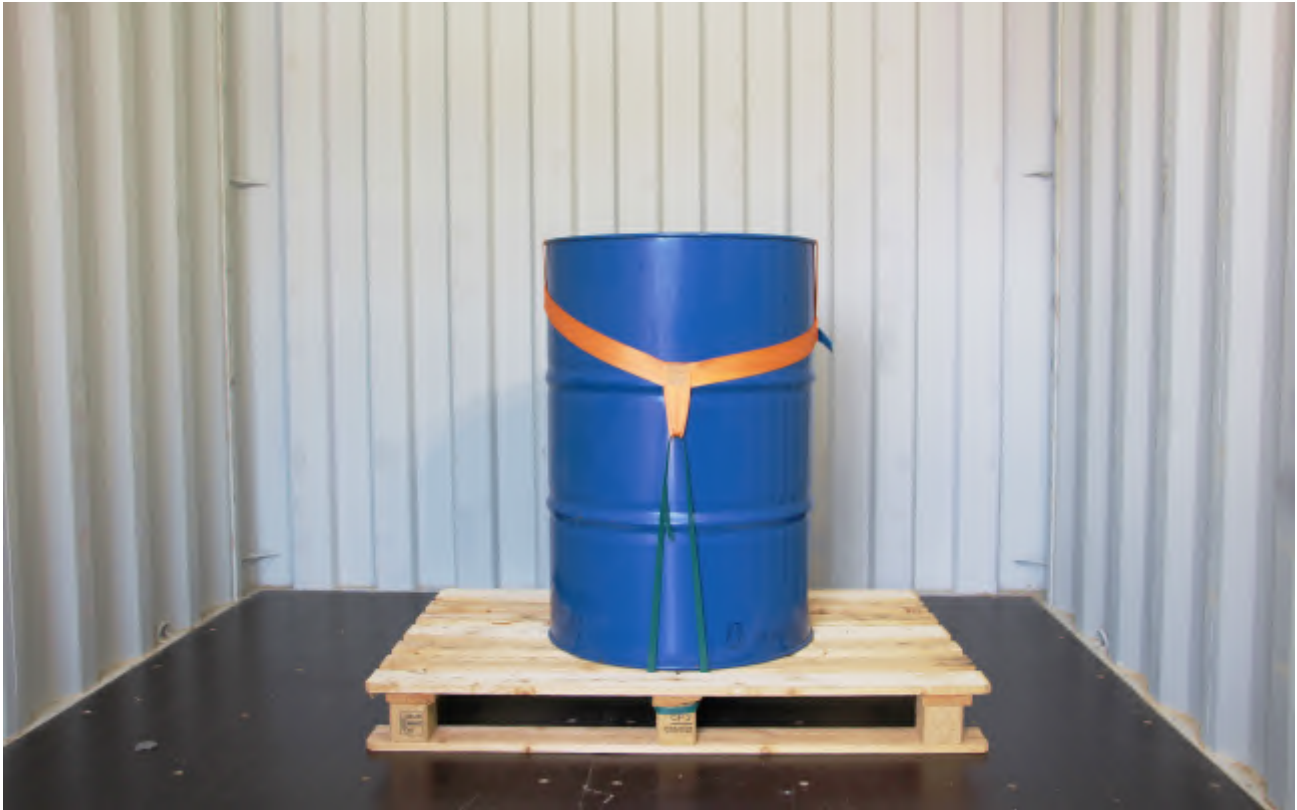
- Straps: PE (Polyester)
- certified by DNV

## Here you will find



- Certificates
- User Information





### Application purpose

Securing round goods on pallets properly is a special challenge in all types of transport. Due to their shape, drums are difficult to grip and cumbersome to handle.

With our self-developed drum securing system, you can quickly and easily create a secure load unit from one or more drums and a pallet. The drum securing system can be used with PET and composite straps as a single-use system, as well as with one-piece lashing straps or sewn webbing (as a multi-use system).

By utilizing the attached pallet hooks, significant time savings can be achieved during installation. The attached pallet hooks are simply hooked onto the pallet, and the system is tensioned. This makes the pre-configured drum securing system the ideal securing method for any mode of transport.



Multi-use solution with pallet hooks



Multi-use solution with ratchet



Three-barrel securing



## Advantages

- Certified as a stable load unit
- Compliant with DIN EN 55415 and EUMOS 40509
- Can be used as a single-use or multi-use system depending on needs
- Can be installed by a single person
- Quick & easy application thanks to pre-configuration

-   **CERTIFIED**
-   **QUALITY GRADE 3**
-   **INDIVIDUAL PRODUCTION**
-   **DIN / EUMOS COMPLIANT**
-   **RECYCLABLE**

## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Drum securement for plastic drum	Ø 600 mm	1.000 pieces / 100 pieces	20569
Drum sec. SET, pallet hook	Ø 600 mm	1 pieces	25888
Drum securement for steel drum	Ø 600 mm	1 pieces	24947



## Makes good even better



Anti slip paper



Composit strap



Ratchet strap single

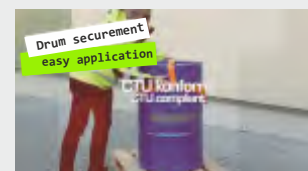
## Technical data

- Material webbing: PES (polyethersulfone)
- Material fittings: metal

## Here you will find



- Certificates
- User Information



- Application Video



**Application purpose**

Securing small canisters or Hobbocks on pallets properly is a special challenge in all types of transport. Due to their shape, these containers, especially when they are small or fall under hazardous goods regulations, have previously required significant effort to secure.

With our self-developed small container securing system, you can quickly and easily create a secure load unit from the goods and a pallet.

[R] The small container securing system can be used as a one-way system with PET and composite straps.

This pre-configured small container securing solution is the ideal choice for any mode of transport. We offer various designs specifically tailored to Hobbocks, fat buckets, and other small containers. Additionally, the use in the hazardous goods sector is independently certified by EUROSAFE.



Easy attachment with PET strap



E.g. for a Hobbock



E.g. for small drums

PKGS-08-02-24/11B

## Advantages

- Certified by EUROSAFE as a stable load unit
- Compliant with DIN EN 55415 and EUMOS 40509
- Can be used as a single-use or reusable system depending on needs
- Can be applied by a single person
- Quick and easy application thanks to pre-configuration



## Standard article

Designation	Dimensions	Quantity Pallet / Carton	Article Number
Small pack. sec. f. Hobbock/Cans	Ø 320 mm	2.000 pieces / 100 pieces	23366
Small pack. sec. f. Hobbock/Cans	Ø 380 mm	1.700 pieces / 100 pieces	14946
Small pack. sec. for steel drums	Ø 400 mm	600 pieces / 100 pieces	20610

## Makes good even better



Anti slip paper



Composit strap



Ratchet strap single

## Technical data

- Material webbing: PES (polyethersulfone)
- Material fittings: metal

## Here you will find



- Certificates
- User Information





### Application purpose

Our battery-operated tensioning device is the automated version of a conventional strap tensioner and is unique in the market. No other manufacturer offers a battery-operated tensioning device for strapping bands from 13 to 25 mm. The battery-operated tensioning device is designed to achieve reproducible results when tensioning the strapping band. Here too, our ST25e has finely tuned torque levels to avoid damaging your goods.

The advantages? With mobile battery operation, you significantly ease the laborious manual tensioning and thus the bundling of load units. Market-known devices are extremely heavy, weighing 4-5 kg. Our battery-operated tensioning device impresses with an unbeatable weight of only 2.5 kg, making it a true innovation in the market. Furthermore, the device features an automated cutting unit, allowing the band to be cut after the tensioning process without additional effort. The battery-powered tensioning device has a pre-tensioning force of 400 daN and comes with a rich array of accessories.



Automatic cutting of the straps



Autom. open/close strap brake



Tensioning force: flexible pre-selection

PH-ASB-RT-15-01-24/1-TB




# Strapping tensioner ST25e

## Advantages

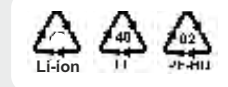
- 40% lighter than comparable battery tensioners on the market
- No comparable device available on the market
- Up to 400 daN tensioning force achievable
- Adjustable torque pre-selection
- Tensioning forces are reproducible at any time
- Automated strap brake and one-handed operation
- Reliable Bosch base unit
- For composite and woven straps up to a maximum width of 25 mm

Environmental notice: Do not dispose of Li-Ion batteries in household waste. Disposal should only be done in appropriate collection boxes or through specialized retailers.

-  CE COMPLIANT
-  QUALITY GRADE 3
-  INDIVIDUAL PRODUCTION
-  RECYCLABLE

## Standard article

Designation	Strength	Content	Article Number
Strapping tensioner ST25e	up to 422 daN	Device, 2x battery, 1x charger	25947



## Makes good even better



Strapping band



Wire closure clamps



Edge protection cardboard

## Technical data

- 20 torque settings
- 2x Li-Ion battery 12 V with 3,000 mAh
- 1x charger from Bosch
- Weight: 2.5 kg

## Here you will find



- Certificates
- User Information



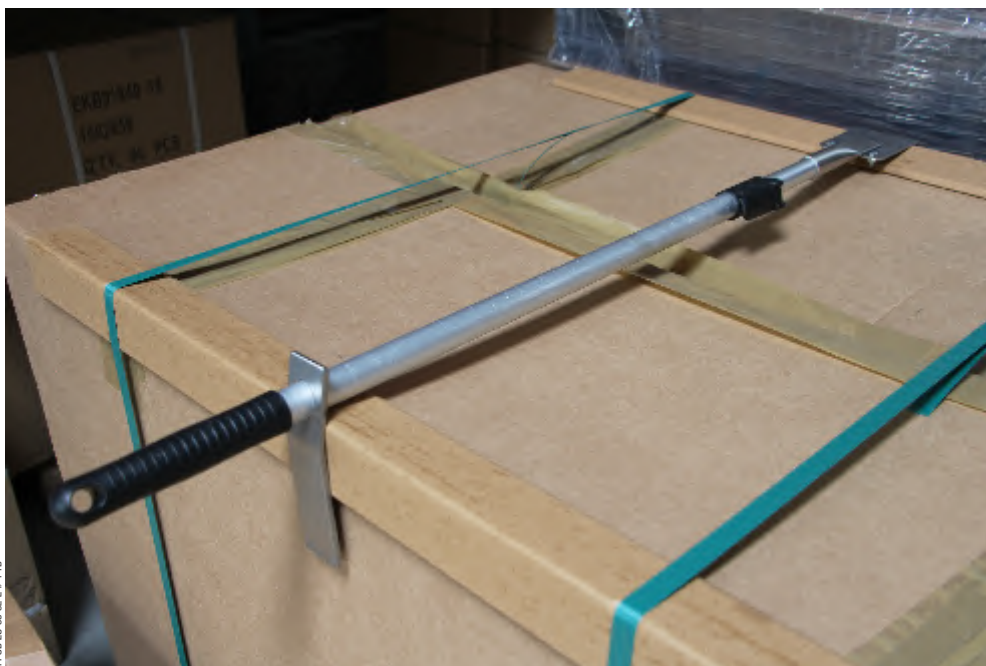


**Application purpose**

Professional packaging not only ensures that the load unit remains stable and undamaged throughout the entire transport process, but it also addresses the issue of workplace safety and depends on the quality of the materials used.

We offer optimally coordinated tools for our composite and woven strapping bands that significantly simplify everyday work. All components have been developed with a focus on ease of use, time optimization, and ergonomic handling.

With our corner protection angle positioning aid, you can secure the corner protection angles on both sides of the cartons to be bundled. This allows the user to have both hands free for applying the strapping.



PH98-70-06-02-01/1TB



Palletizing needle for threading




Unwinding cart (composite strap)



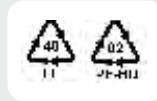
Unwinding cart (woven strap)

**Advantages**

- Ergonomic application
- Robust quality for daily use

-  **CERTIFIED**
-  **QUALITY GRADE 3**
-  **INDIVIDUAL PRODUCTION**
-  **RECYCLABLE**

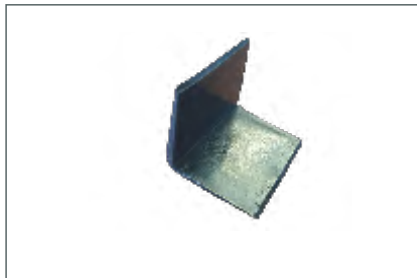
- Recycling labeling



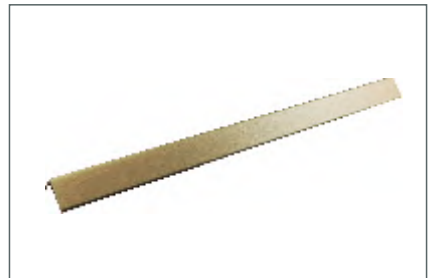
**Makes good even better**



Reel tensioner



Edge protection plastic



Edge protection cardboard

**Technical data**

- Material varies depending on the application

**Here you will find**



- Certificates
- User Information





### Application purpose

One of the most individualized areas where we find solutions for our customers is the topic of hood covers. No matter which package we are talking about, it often needs to be protected from various environmental influences or contamination during transport or storage.

For this purpose, a very high-quality and dirt-repellent tarpaulin is used. Through our own production facility in Germany, the hood covers are customized to fit the customers' goods and refined with additional components.

For efficient use and attachment of the hoods, high-quality Velcro straps or webbing with attached ratchets are employed. In addition to individual customization to your requirements, personalization with advertising banners is also possible.



Individual printed cover



Stable ratchet fastening



Integrated strapping solution

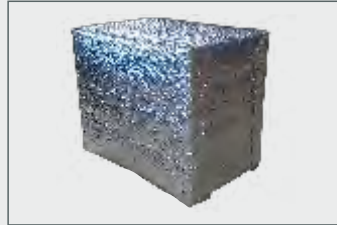
PHADH-16-01-24/11B



**Examples**

**Thermal hood**

Insulating, aluminum-coated fabric for temperature-controlled transport or to avoid significant temperature changes during the transportation of goods.



**Frame tarps**

Custom-made covers, e.g., for metal frames, used clothing containers, or mesh boxes. Made from various materials for multiple-use applications.



**Strapping tarp**

Tarp, which wraps around the goods in the sense of strapping, thereby securing smaller packages and stabilizing the transport frame.



**Pipe bag**

Our pipe bag is used for the storage and transport of pipes. It is placed over the ends and secured with a clamp strap to prevent the entry of foreign substances.



**Wind power**

Large machine parts must be particularly protected during transport. In the adjacent example, the gearbox of a wind turbine was covered with protective covers made of PP fabric.



- ✓   **CERTIFIED QUALITY MANAGEMENT**
- ✓   **MAXIMUM DELIVERY CAPABILITY**
- ✓   **INDIVIDUAL PRODUCTION**
- ✓   **TRAINED QUALIFIED STUFF**
- ✓   **MADE IN GERMANY**



**Did you know?**

With our production in Germany, we can leverage all our expertise in a consolidated manner.

This allows us to respond to customer requests in the shortest possible time and maintain maximum delivery capability.



**Here you will find**



- Individual production
- Examples





### Application purpose

When filling various substances into drums, the same issue always arises at the destination: complete emptying is only difficult to achieve, and the drums are usually no longer suitable for a second use. This is neither financially sensible nor sustainable. Therefore, using a bottom round bag before filling is a cost-effective and clever solution.

It is custom-made and can be easily attached by hand inside the drum. Once at the destination, the goods can be removed, and the drum can be reused without contamination. Industrial companies rely on machine-assisted insertion of the liners due to high demand. Our bottom round bags are also suitable for this purpose.

The same principle applies to our inliners in cartons or octabins. These prevent contamination of the goods or the carton and provide additional protection against spillage for bulk materials.



For fats and adhesives



State-of-the-art production facilities



Various versions available

**Advantages**

- Drums, octabins, and cartons remain free from contamination
- Easier retrieval of goods
- Cost-effective solution
- Fast, time-saving application
- Custom manufacturing to size

-  **CERTIFIED**
-  **INDIVIDUAL PRODUCTION**
-  **RECYCLABLE**

- Recycling labeling



**Makes good even better**



Battery strap tensioner [R] ST25e



Reel tensioner



Pallet needle

**Technical data**

- Material: PE foil

**Here you will find**



- Certificates
- User Information



- Application Video







**Application purpose**

In the production of a metal coil, manufacturers face a challenge. Immediately after winding, the coil tends to lose its round shape due to its high self-weight.

To address this problem, Rothschenk has invented the coil cushion. This is a specially manufactured support cushion in cylindrical form that is inserted into the core of the metal coil and inflated immediately after winding. The high strength of the support cushion and the uniform pressure on the eye of the coil prevent it from deforming.

Alternatively, it can also be used for other applications. For example, it is possible to press against the inner layer of a wall or to seal openings with it. The possibility of custom manufacturing according to customer specifications leads to a wide range of applications.



Filling with quick-fill gun



Special valve holder








Custom manufacturing (e.g. Ø)

RPLR-05-1104-24/1-TB

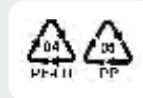


## Advantages

- Custom manufacturing according to customer specifications
- High load capacity
- Fastest, easy application
- Cost-effective solution with great benefits

-  CERTIFIED
-  QUALITY GRADE 3
-  INDIVIDUAL PRODUCTION
-  CTU CODE COMPLIANT
-  RECYCLABLE

- Recycling labeling



## Makes good even better



Makita filling set with Quick Connect dapter



Fast filling gun with aluminium adapter



Filling hose with BIG-valve adapter

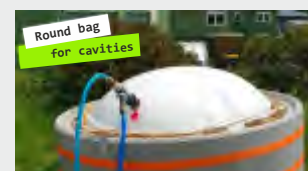
## Technical data

- Outer cushion: PP (polypropylene) ribbon fabric, coated
- Inner cushion: PE (polyethylene) film
- Valve: BIG, SMART

## Here you will find



- Certificates
- User Information



- Application Video





### Application purpose

High-quality products are often packaged in transport boxes, steel trays, or frames to protect them. However, the resulting empty spaces within the transport container pose a significant challenge for the packer to fill.

That's exactly why we have created our inbox solutions. Our air cushions fill the empty spaces and create a form fit within the transport container. Since each transport packaging has different requirements, we develop a tailored solution together with you.

To further optimize the workflow for a customer, we have integrated a fixed air cushion into the box. Due to the necessity of filling the air cushion only after closing the box, we have created an innovative solution with an external valve



RPL-4-11-08-24-11-B



Filling from the outside is possible






Easy release of air



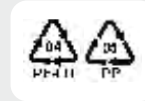
Use of different dunnage bags

**Advantages**

- Custom manufacturing according to customer specifications
- High load capacity
- Fast, easy application
- Cost-effective solution with great benefits

-  **CERTIFIED**
-  **QUALITY GRADE 3**
-  **INDIVIDUAL PRODUCTION**
-  **CTU CODE COMPLIANT**
-  **RECYCLABLE**

- Recycling labeling



**Makes good even better**



Makita filling set with Quick Connect adapter



Fast fillig gun with aluminium adapter



Filling hose with BIG-Ventil adapter

**Technical data**

- Outer cushion: PP (polypropylene) ribbon fabric, coated
- Inner cushion: PE (polyethylene) film
- Valve: BIG, SMART

**Here you will find**



- Certificates
- User Information





**Application purpose**

Since 1996, we have been developing, testing, and manufacturing load securing solutions at the highest level. Throughout this time, Rothschenk has always prioritized service and customer-oriented solutions that are closely aligned with the needs of our clients.

Many of our innovative load securing products have been created in close collaboration with our customers. Thanks to our own testing facilities and our production site in Aub, Lower Franconia, it is usually not far from the idea to the finished product.

As a manufacturer, we adhere to strict standards. This is not only to maintain consistent product quality but also to fulfill our responsibility towards our employees and the environment. Numerous awards such as DIN ISO 9001:2015 (DEKRA), EMAS, and Ecovadis impressively demonstrate this commitment.



Lashing production



Custom manufacturing



Dunnage bag production

PHBR-17-01-24/11B





**Our Services**

**Full warehouse**

- New logistics center (built in 2023)
- Centralized warehousing
- State-of-the-art logistics solutions
- Stock items or just-in-time production
- Over 2,000 pallet spaces in 5 warehouses



**Fast logistics**

- cooperation with renowned logistics partners
- Established supply chains
- Own express delivery fleet
- Short delivery times



**Proven quality**

- Quality management according to DIN EN ISO 9001:2015
- Defined raw material and product tests for quality assurance



**Special solutions**

- Needs analysis in cooperation with the customer
- Product development according to customer specifications
- Custom prototype construction by Rothschenk
- Application tests with certified experts



**Made in Germany**

- Own production facility in Germany
- Research and development in Germany
- Additional locations abroad with central management from Germany



- ✓ CERTIFIED QUALITY MANAGEMENT
- ✓ MAXIMUM DELIVERY CAPABILITY
- ✓ INDIVIDUEL PRODUCTION
- ✓ TRAINED QUALIFIED STUFF
- ✓ MADE IN GERMANY



**Did you know?**

With our production facility in Franconian Aub, we are one of the few manufacturers of load securing products with our own location in Germany.

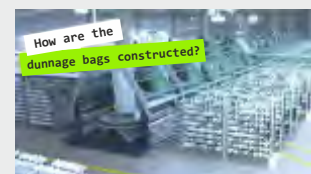
This allows us to respond to customer requests in the shortest possible time and maintain maximum delivery capability.



**Here you will find**



- History
- That's what we stand for



- Insight video partner plant





## Application purpose

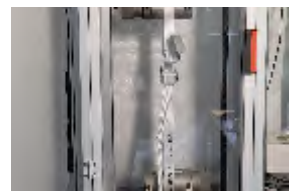
Our testing facilities are truly rigorous. We often achieve test values of 12 tons and more, far exceeding the regular requirements. Our dunnage bags and lashings must prove that they maintain the quality we promise.

Not all lashings are the same, as the weakest component determines the performance of the entire system. To optimally coordinate these factors, our lashing testing facility is an indispensable testing tool. Utilize our expertise for your own material and load tests on your products in use.

As a German manufacturer, the highest material quality and professional production are among our top priorities. Each component is thoroughly tested before further processing. This applies to load bags, straps, edge protectors, as well as to the raw materials used in our production facilities.



Pressure test edge protectors



Tensile test lashing strap



Tension test lashing



PH1817/20126/11/B

## Unsere Prüfanlagen im Detail

### Tension test system for lashing systems

- maximum load capacity: 12 tons
- eight attachment points
- digital measuring system with evaluation



### Tension test system for strapping and load securing bands

- Maximum load capacity: 10 tons
- Vertical tension
- Digital measuring system with evaluation



### Compression test edge protection

- Maximum load capacity: 10 tons
- Vertical pressure
- Digital measuring system with evaluation
- With fixture for three-point bending test according to ISO 178



### Burst test system for dunnage bags

- Maximum load capacity: Level 5
- Test gap variable
- Digital measuring system with evaluation



### Tilt test load unit

- External testing possible
- Certification of unit load formation
- Stability testing of load units
- According to DIN and EUMOS



-   **CERTIFIED TESTING PROCEDURE**
-   **MAXIMUM LOAD**
-   **TRAINED INSPECTION PERSONNEL**
-   **CTU CODE COMPLIANT**
-   **DIGITAL EVALUATION**



### Did you know?

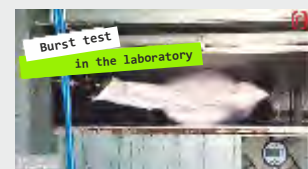
We can test your current products according to our testing procedures and quality standards.

This will provide you with realistic load values to compare the products with each other.

## Here you will find



- Certificates
- User Information



- Application Video





## Application purpose

Our products undergo numerous tests before they are allowed to secure our customers' goods. At the customer's request, we also organize driving tests to evaluate our products in practice and to have them certified.

Our customers often have exceptional products and requirements, which makes it necessary to find extraordinary solutions together with you. It's best to do this directly with the manufacturer – with us. Our own testing facilities allow us to replicate relevant scenarios that arise from customer requirements.

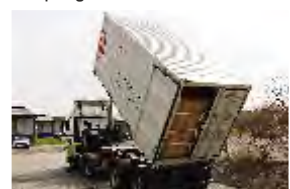
At sea, containers can be subjected to lateral inclinations of about 40 degrees or more. The forces during truck or rail transport should not be underestimated either, with values of 0.8g and 1.0g. To realistically represent these forces, we can simulate this with our containers on a platform. We are happy to assist you with your own dynamic tests or the organization of testing scenarios.



Driving test



Coupling brake test



Tilt test

PHOTO: P. V. 01-26/11/18





## Possible testing methods

### Brake test with truck

- Certification by external experts
- Dynamic test in driving direction
- Standardized test specifications to achieve the desired G-forces
- Suitability according to VDI 2700



### Evasion test with truck

- Certification by external experts
- Dynamic test perpendicular to driving direction
- Standardized test specifications to achieve the desired G-forces
- Suitability according to VDI 2700



### Impact test with the rail

- Certification by external experts
- Shock loading during shunting
- Standardized test specifications to achieve the desired G-forces



### Tipping test with platform

- Certification by external experts
- Tipping angle up to 50° inclination
- Simulation of inclination angles in combined transport (sea/truck/rail)



 CERTIFIED TESTING PROCEDURE



 MAXIMUM LOAD



 TRAINED INSPECTION PERSONNEL



 CTU/DIN/EN/UIC/DB COMPLIANT



 DIGITAL EVALUATION



### Did you know?

You can have a dynamic test of your load securing conducted together with us.

If desired, this can be externally supervised and certified.

We collaborate with the following partners:



## Here you will find



- Certificates
- User Information



- Application Video

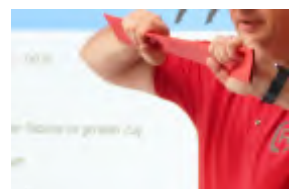


Application purpose

Good load securing constantly presents challenges for your company? Employees have varying levels of knowledge on the topic of load securing?

With our training, we make your company and employees experts in the area of load securing. The goal is to bring everyone up to date legally, technically, and practically, and to obtain immediately applicable solutions for your daily operations from the discussions.

On-site training by certified trainers and consultants has a special advantage. Your existing loading situation and loading concept can be examined by us and directly optimized in practice.



Theory explained in a practical way



Practical application at Rothschenk



Practical application at the customer

RSCH28-01-24/11B

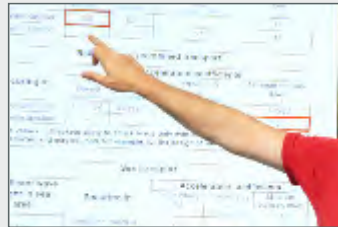


## Technical instructions

### Training on-site at the customer

- Training on the fundamentals according to VDI 2700 and/or CTU code (by external trainers)
- Legal, technical, and practical content is specifically tailored to your requirements in theory and practice
- In particular, during the practical part, the instructor addresses the loading requirements at the customer's site and explains potential optimization if necessary
- Already used LaSi products of the customer will be evaluated and optimized if necessary

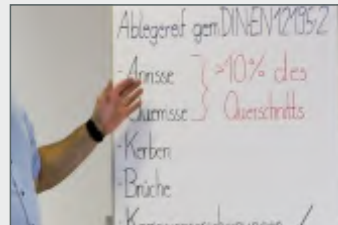
**FOCUS:** Raising employee awareness of load securing in everyday loading operations.



### Training at Rothschenk on-site

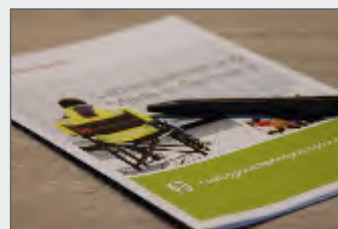
- Training on the fundamentals according to VDI 2700 and/or CTU code (by external trainers)
- Legal, technical, and practical content is conveyed in both theory and practice
- During the practical part, the instructor explains common mistakes, how to avoid them, as well as the application of standard load securing devices according to the current state of technology and standards.






**FOCUS:** Conveying all relevant technical knowledge according to the current state of technology and standards.



### Certificate

- Each course participant receives a certificate of participation for the content covered.



-  PARTICIPATION CERTIFICATE
-  ACCORDING TO VDI 2700 CTU CODE
-  CERTIFIED INSTRUCTOR
-  INDIVIDUALLY TAILORED
-  THEORY & PRACTICES

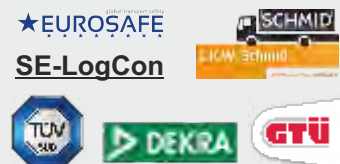


### Schon gewusst?

Auf Wunsch arbeiten wir bei unseren Schulungen mit unabhängigen Trainern und Ausbildern zusammen.

Dadurch können wir individuell auf die terminlichen und fachlichen Bedürfnisse unserer Kunden eingehen.

Unsere Partner sind u.a.:



## Here you will find



- Certificates
- User Information



How to find us?  
Simply good.

