Dolezych
EINFACH SICHER



# TIMES ARE CHAINGING

## Lighter, faster and more ergonomic lashing

## DoNova® PowerLash

## The idea:

# Replacing heavy steel chains with lightweight high-tech textile chains

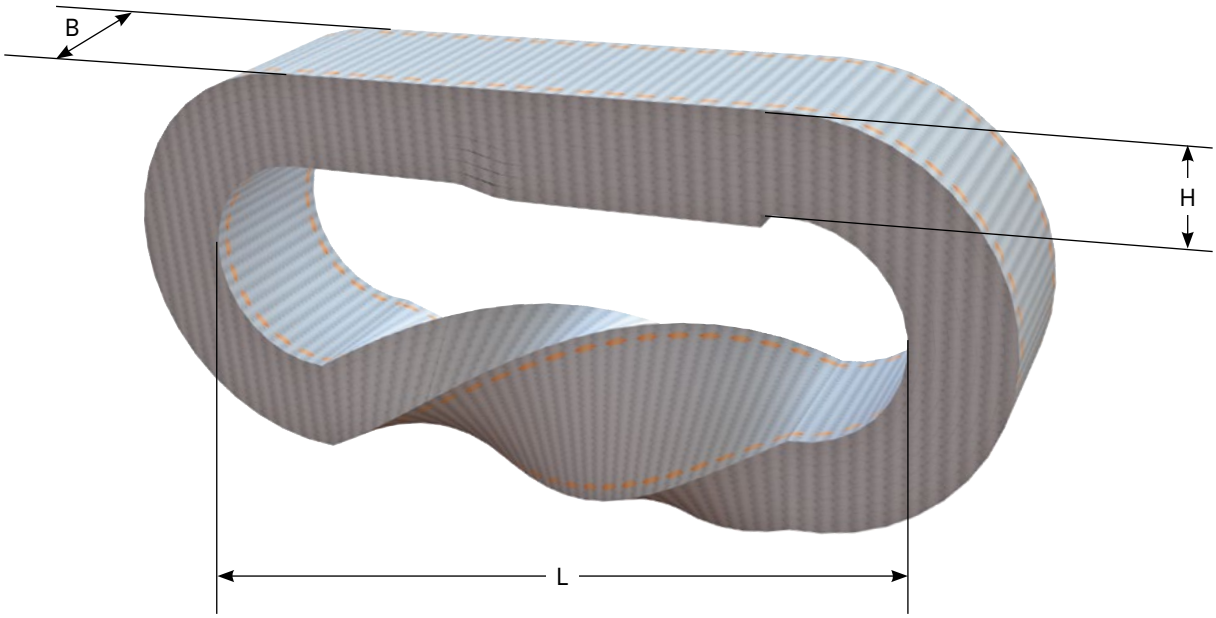


The textile chain Do*Nova*® is made of individual chain links like a steel chain. These links are placed one inside the other. The unique feature: Each Do*Nova*® chain link consists of several layers of webbing, which is laid and sewn in a so-called Möbius ring. The webbing is made of the high-performance fiber Dyneema® (HMPE). In terms of weight, Dyneema® is 15 times stronger than quality steel and up to 40 % stronger than aramid fiber.

This patented design creates unique advantages because the Do*Nova*® is just as tear-resistant as high-strength steel chains. Despite this strength, the Do*Nova*® has 85 % less weight per meter. The Do*Nova*® *PowerLash* is used when securing needs to be done faster and more efficiently.

## Our promise: “Working safely has never been so easy!“

# Technical characteristics




| DoNova® Version | 25/8 | 25/10 | 30/8 | 30/10 |
|---|---|---|---|---|
| Link division (L) */** | 100 mm | 100 mm | 125 mm | 143 mm |
| Chain thickness (H) */** | 12,5 mm | 15,5 mm | 16,3 mm | 19,4 mm |
| Chain width (B) */** | 25 mm | 25 mm | 30 mm | 30 mm |
| Weight per meter | ≈0,61 kg/m | ≈0,79 kg/m | ≈0,90 kg/m | ≈1,10 kg/m |
| Minimum breaking force (MBF) | 200 kN | 250 kN | 320 kN | 400 kN |
| Lashing capacity (LC) | 10.000 daN | 12.500 daN | 16.000 daN | 20.000 daN |

*Dimensions with load of 6 % MBF
**Tolerances: Link division +5 / +0 mm | chain thickness ± 4 % | chain width ± 1 mm




## Heavy-load securing made easy!

The Do*Nova*® *PowerLash* lashing chain can easily compete with high-strength steel chains up to grade 120 and nominal sizes up to 16 mm. The extremely low weight ensures easy handling of the heavy-duty securing system and also makes it possible for considerably longer lashing chains – e.g. with a usable length of 20 m and more – to be used by just one person.

# Advantages of the textile chain

Made in Germany

**Technical advantages:**

- Just as tear-resistant as steel chains
- Especially abrasion resistant compared to other textile load securing equipment
- Proven UV resistance thanks to “Skin Core Effect“
- Floatable (pure yard goods)
- Chemical and seawater resistant – cannot rust!

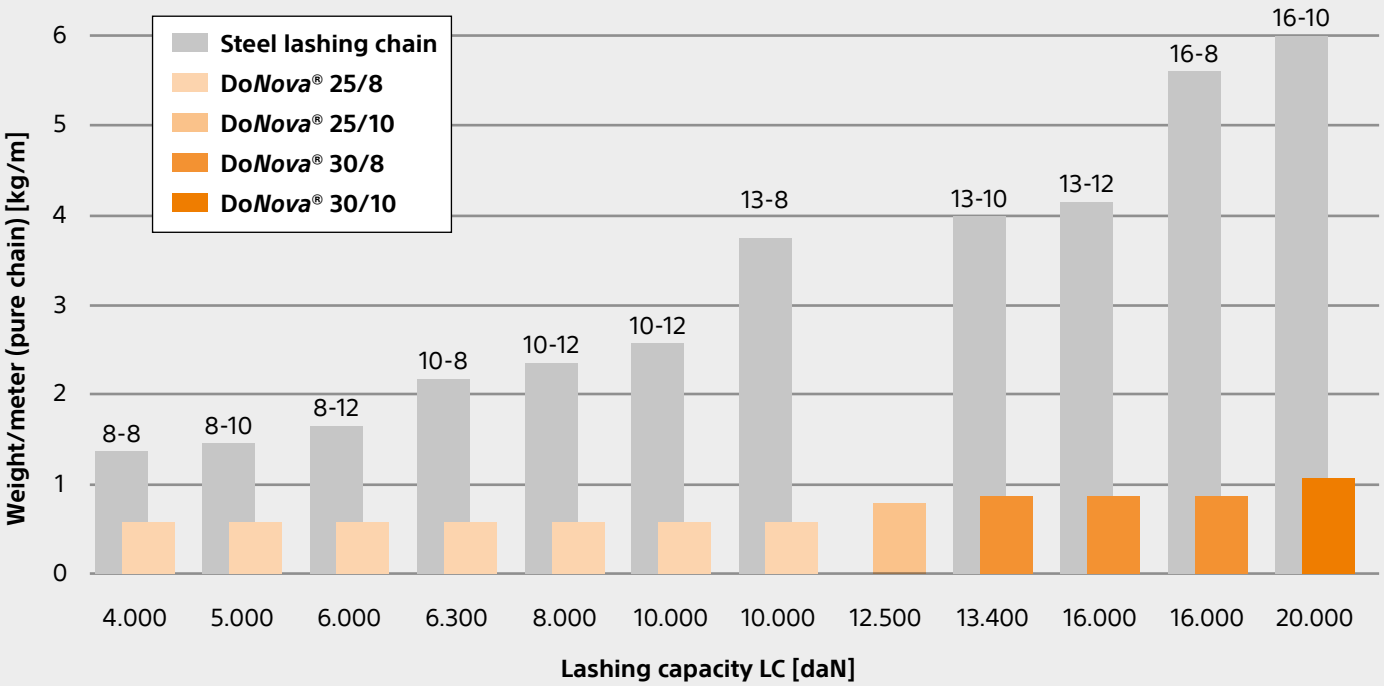
**Advantages for the user:**

- Reduces noise
- Ergonomic working thanks to lower weight
- Easy handling by only one person
- Textile material is gentle on sensitive surfaces and also the user’s hands
- Thanks to shortening hooks: Easier to shorten than steel chains with parallel hooks
- Repair option of individual chain links that are ready to be replaced by the Dolezych service team
- New textile sleeve including label to prevent steel tags from hitting sensitive loads

**Good to know:**

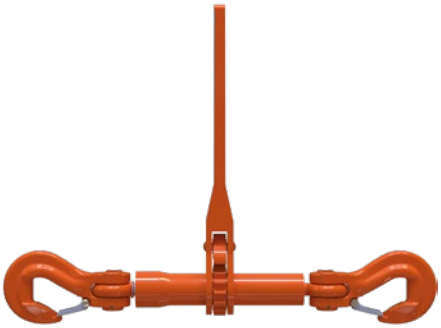
- Manufactured in accordance with DIN EN 12195-2 and -3
- Operating temperatures from -40 °C to +70 °C
- Breaking forces are based on the steel counterpart

**Weight comparison: Do*Nova*® vs. steel chain**
Overview of which steel chain is replaced by which Do*Nova*® variant



# Structure of the lashing chain

**The tensioning element**
Choose the right product from a range of clamping elements:



1. **Do*Ra***
   The ratchet load binder with telescope principle

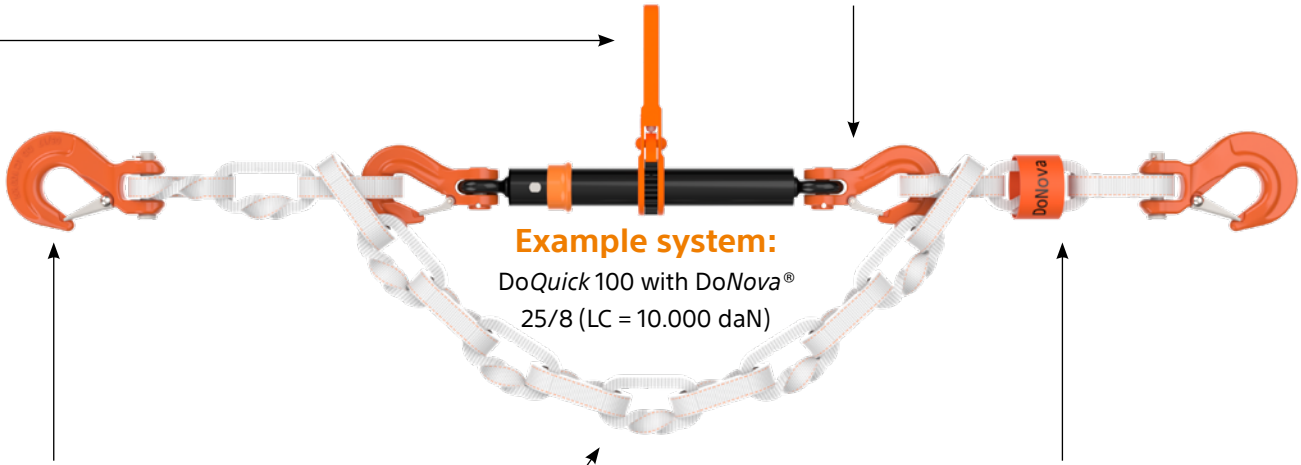


2. **Do*Quick***
   The ratchet load binder with quick-release function and swivel hook for even faster work without twisted chains



3. **Lashing strap tensioner**
   The replacement if you do not want to use a ratchet load binder

**The shortening hooks**
We have designed special shortening hooks for connecting our ratchet load binders to the textile chain. These protect the chain link in the best possible way thanks to a flat surface. Shortening is also very quick and easy to do.




**Example system:**
Do*Quick* 100 with Do*Nova*®
25/8 (LC = 10.000 daN)

**The fitting**
Special Do*Nova*® clevis hooks for all variants for lowest weight and easiest application.
If you need a different hook, there is the option of connecting various eye hooks to our coupling link.

**The Do*Nova*®**
Available in four different variants and lashing forces

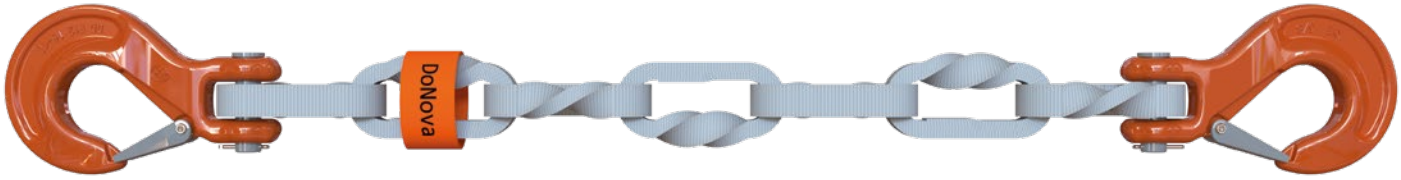
| | |
|---|---|
| 25/8 | LC = 10.000 daN |
| 25/10 | LC = 12.500 daN |
| 30/8 | LC = 16.000 daN |
| 30/10 | LC = 20.000 daN |

**The labeling sleeve**
In contrast to other lashing chains, we do not use steel tags.
Our PES sleeve with velcro fastener has an identification and test label on the inside. The Do*Nova*® version is also printed on the outside for quick and easy identification.

# Lashing chain with fitting parts

## Do*Nova*® *PowerLash* lashing chain with clevis hooks on both sides

| Item no. | Clevis hook version | For Do*Nova*® | Lashing capacity (LC) | Weight approx. for L1 = 3,5m | Weight approx. each further meter |
|---|---|---|---|---|---|
| 13 - 7725 0800 | small | 25/8 | 10.000 daN | 5,4 kg | + 0,61 kg/m |
| 13 - 7725 0801 | large | 25/8 | 10.000 daN | 7,3 kg | + 0,61 kg/m |
| 13 - 7725 1001 | large | 25/10 | 12.500 daN | 7,9 kg | + 0,79 kg/m |
| 13 - 7730 0801 | large | 30/8 | 16.000 daN | 11,6 kg | + 0,90 kg/m |
| 13 - 7730 1001 | large | 30/10 | 20.000 daN | 12,2 kg | + 1,10 kg/m |

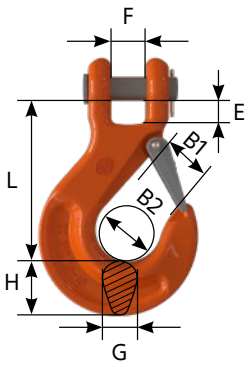



## Do*Nova*® *PowerLash* lashing chain with coupling link and eye hooks

| Item no. | Nominal size fittings | For Do*Nova*® | Lashing capacity (LC) | Weight approx. for L1 = 3,5m | Weight approx. each further meter |
|---|---|---|---|---|---|
| 11 - 7726 0800 | 13-10 | 25/8 | 10.000 daN | 8,0 kg | + 0,61 kg/m |
| 13 - 7725 1000 | 13-10 | 25/10 | 12.500 daN | 8,5 kg | + 0,79 kg/m |
| 13 - 7730 0800 | 16-10 | 30/8 | 16.000 daN | 13,0 kg | + 0,90 kg/m |
| 13 - 7730 1000 | 16-10 | 30/10 | 20.000 daN | 13,6 kg | + 1,10 kg/m |



## Do*Nova*® clevis hooks




| Item no. | Version | For Do*Nova*® | Nominal size | Dimensions in mm | | | | | | | Weight approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | L | B1 | B2 | E | F | G | H | |
| 29 - 2902 0613 | small | 25/8 | – | 113 | 34 | 24 | 19,5 | 27,5 | 27 | 40,5 | 1,7 |
| 69 - 2902 2013 | large | 25/8 & 25/10 | 13-10 | 141 | 36 | 36 | 21 | 27 | 32 | 43,5 | 2,6 |
| 69 - 2902 2016 | large | 30/8 & 30/10 | 16-10 | 164 | 46 | 46 | 26 | 33 | 38,5 | 52 | 4,3 |

**Modular system for every purpose**

**Our hooks cannot be used optimally in your application? You need a 1-piece system or you have special requirements? No problem for us!**
The modular system allows you to adapt various eye hooks from our high tensile accessories range. To do this, the Do*Nova*® is connected to the eye hook with a coupling link.

**Which hooks can be connected to the coupling link?**

- **Do*Nova*®** 25/8 — Components > 13-8 and 13-10 and 13-12
- **Do*Nova*®** 25/10 — Components > 16-8 and 13-10 and 13-12
- **Do*Nova*®** 30/8 — Components > 16-8 and 16-10 and 16-12
- **Do*Nova*®** 30/10 — Components > 20-8 and 16-10 and 16-12

# The tensioning element

## Do*Ra* – The compact telescopic ratchet load binder

DoRa100



DoRa200



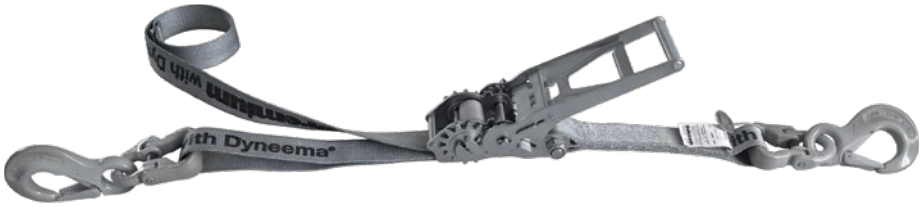
| Item no. | For Do*Nova*® | Lashing capacity (LC) | $S_{TF}$ (daN) | Length L1 approx. mm | Tensioning approx. mm | Weight approx. kg | Version |
|---|---|---|---|---|---|---|---|
| 29 - 0385 0101 | 25/8 | 10.000 | 1.500 | 484 - 757 | 273 | 6,2 | Do*Ra*100 |
| 29 - 0385 0169 | 25/10 | 12.500 | 1.875 | | | | |
| 29 - 0385 0159 | 30/8 | 16.000 | – | 544 - 845 | 301 | 10,5 | Do*Ra*200 |
| 29 - 0385 0149 | 30/10 | 20.000 | – | | | | |

## Do*Quick* – The fastest ratchet load binder in the world



| Item no. | For Do*Nova*® | Lashing capacity (LC) | $S_{TF}$ (daN) | Length L1 approx. mm | Tensioning approx. mm | Weight approx. kg |
|---|---|---|---|---|---|---|
| 29 - 0385 2001 | 25/8 | 10.000 | 1.500 | 595 - 856 | 261 | 6,3 |

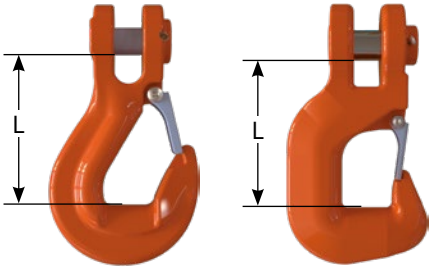
## Lashing strap tensioner with Dyneema® – The alternative to the ratchet load binder




| Item no. | For Do*Nova*® | Lashing capacity (LC) | $S_{TF}$ (daN) | Length L1 approx. mm | Weight approx. kg |
|---|---|---|---|---|---|
| 11 - 2650 9697 | 25/8 | 10.000 | 1.000 | 1,5 | 11,5 |

- Webbing made from 100 % Dyneema®
- In accordance with EN 12195-2
- Nominal length 1,5 m
- Fixed end = 0,7 m
- With gear ratchet
- Round sling coupler 13-10
- Eye hook 13-10

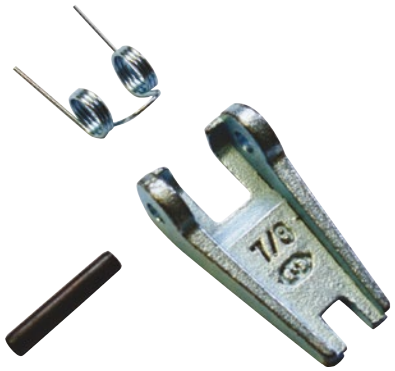
# Other accessories




29 – 0385 0162 29 – 0385 0161

## Do*Nova*® shortening hook for connection to Do*Ra* & Do*Quick*

| Item no. | For tensioning element | For Do*Nova*® | L mm | Weight approx. kg |
|---|---|---|---|---|
| 69 - 0385 0162 | Do*Ra*100 | 25/8 | 92 | 1,3 |
| 69 - 0385 0161 | Do*Ra*200 | 25/10, 30/8, 30/10 | 102 | 2,6 |



## Snappers as replacement part

| Item no. | For hooks |
|---|---|
| 69 - 2902 0713 | 29 - 2902 0613 |
| 69 - 2902 0714 | 69 - 2902 2013 |
| 69 - 2902 0716 | 69 - 2902 2016 |
| 69 - 0385 0166 | 69 - 0385 0162 |
| 69 - 0385 0167 | 69 - 0385 0161 |



## Cut protection 100 % Dyneema®

| Item no. | For Do*Nova*® | Flat width in mm | Weight approx. kg |
|---|---|---|---|
| 42 - 5562 0511 | 25/8 | 115 | 0,18 |
| | 25/10 | | |
| | 30/8 | | |
| | 30/10 | | |




- If the radius is less than or equal to 6 mm, a cut protective must be used.
- Wall thickness of the protective hose 6 mm
- Tube edges are stitched.

## Special heavy-duty solution



- Combination of Do*TEXtreme* LMT (load sling for lashing – mooring – towing) with our Do*Nova*®!
- More cost-effective and still all the advantages! This system is particularly suitable for systems > 6 m effective length! Just get in touch with us!

## DoNova® PowerLash in use

# Problem solving for almost every application

**Special systems needed?**
We assemble your **DoNova® PowerLash!**



As a special system with Dyneema® lashing strap



As a lashing chain with Dyneema® lashing strap



As a lashing chain with patented Do*Ra* ratchet load binder

The **Do*Nova*® *PowerLash*** lashing chain offers a secure solution for many applications and impresses with maximum flexibility!



As a lashing chain with patented Do*Quick* ratchet load binder

# The textile chain Do*Nova*®

**Find out more here: https://donova.info**

**The textile chain Do*Nova*® is also available for lifting:**

**Do*Nova*® *PowerLift***

## Purchase options


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