



VarioForce®

Balancing asymmetrical loads at lightning speed

VarioForce is the ideal lifting solution for safe and precise handling of asymmetric loads. Made of high-performance HMPE fibers, the braided rope can be easily combined with round slings to form a 2-, 3-, or 4-leg sling assembly. VarioForce impresses with its simplicity: it can be adjusted in seconds with centimeter precision, ensuring your load is perfectly balanced for a safe and efficient lifting operation.

Advantages at a glance



Bringing loads into balance

For asymmetrical loads, the length of one or more strands needs to be balanced, to precisely align the center of gravity. VarioForce slings can be infinitely adjusted by up to two meters. Variability from which you benefit in day-to-day business.



Super-fast and tool-free adjustment

The VarioForce sling leg can be adjusted in just seconds. With minimal effort and no additional tools, the rope can be easily shortened or extended, providing quick and flexible handling.



Centimeter-precise adjustment

VarioForce enables stepless and centimeter-precise adjustment. To do this, the shortener is loosened and the rope is pulled out at the bottom to lengthen it or at the top to shorten it. Then simply fix and secure the rope - done!



Absolutely economical

VarioForce is cost-efficient. The combination with round slings allows only the strings required for the application to be designed as VarioForce. In addition, thanks to the modular system, components can be replaced and repaired, saving you money and protecting the environment.



For the toughest operating conditions

VarioForce meets the strict requirements of the SpanSet factory standard. Rough surfaces, contamination with oil and grease and 20,000 load cycles - no problem!



Light and gentle

The textile lifting gear is gentle on the load, avoids costly reworking and is easy to handle thanks to its low weight.

SpanSet®

SpanSet GmbH & Co. KG

Jülicher Straße 49-51
52531 Übach-Palenberg

Phone +49 (0) 2451 4831-0

E-Mail info@spanset.de

Web www.spanset.de



www.spanset.de



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SpanSet®

Height Safety
Lifting
Load Control
Safety Management

VarioForce®



Lift asymmetrical loads precisely and quickly!

SpanSet
Certified
Safety

Innovation
by SpanSet

VarioForce®

Innovation by SpanSet – more than just a rope!

Made in Germany

VarioForce ropes are braided in Germany from extremely robust and low-stretch high-performance fibers. In combination with SpanSet round slings and ExoSet fittings, the result is an innovative sling that makes lifting operations more efficient and economical. VarioForce is manufactured in accordance with DIN EN 1492-2/4 and meets the requirements of the Machinery Directive and the strict specifications of the SpanSet factory standard.

Simple Inspection and Documentation

Vario Force is specially equipped with an RFID tag for sling testing and digital documentation. The ID of the tag is the key to the product history in your database. With IDXpert.net, SpanSet offers the right software for inspection documentation.

ExoSet - a perfect fit

ExoSet fittings are drop-forged from special grade steel in accordance with DIN EN 1677 and their geometries are specially adapted to VarioForce. They are free of burrs and edges, which effectively prevents unnecessary wear and ensures the durability of the fitting.

Perfectly labeled

In addition to the load capacity, the plate also contains information on the length and adjustment range of the hanger. Another feature is the indentation for the test seal. This effectively prevents damage.

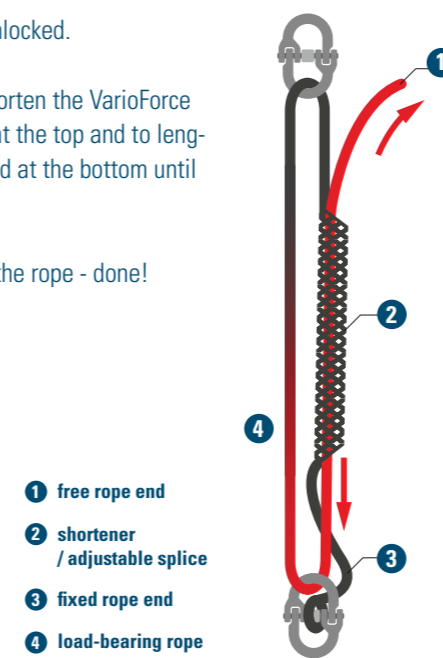
In use:

User-friendly application in just a few steps

VarioForce stands out for its exceptional ease of use. The lifting gear is compact, lightweight, and can be effortlessly hooked in place. An integrated adjuster allows for precise, tool-free rope adjustment. In just a few simple steps and with minimal effort, your load is ready for a safe lifting process.

Three Steps to Perfect Balance:

1. first, the shortener ❶ must be unlocked.
2. shorten/lengthen the rope: To shorten the VarioForce rope, pull out the free rope end ❷ at the top and to lengthen it, pull out the fixed rope ❸ end at the bottom until the required length is reached.
3. then simply reattach and secure the rope - done!



VarioForce in use explained very simply.



Scan the QR code with your smartphone camera and watch the clip.



Modular principle

Only use what is necessary!

VarioForce is available in load capacities ranging from 1 to 3 tons and in three different lengths. The assembly is delivered fully configured. Depending on the load requirements, you can decide how many round slings to use in combination with VarioForce, ensuring you only deploy what is necessary—maximizing cost efficiency.

VarioForce® string combinations

Strings	Load capacity/WLL [kg]	String combinations
	up to 45° up to 60°	
1-String	1.000 2.000 3.000	❶ 1 x VarioForce
2-String	1.400 1.000 2.800 2.000 4.200 3.000	❷ 1 x VarioForce ❸ 1 x Round sling ❹ 2 x VarioForce
3-String*	1.400 1.000 2.800 2.000 4.200 3.000	❷ 1 x VarioForce ❸ 2 x Round sling ❹ 2 x VarioForce ❺ 1 x Round sling ❻ 3 x VarioForce
4-String*	1.400 1.000 2.800 2.000 4.200 3.000	❷ 2 x VarioForce ❸ 2 x Round sling ❹ 3 x VarioForce ❺ 1 x Round sling ❻ 4 x VarioForce

*Asymmetrical loads have an influence on the load-bearing capacity. For asymmetrical loads the load-bearing capacities of the 2-leg suspension apply for 3- and 4-leg suspensions.

VarioForce® versions

Nominal length L1 [m]	Adjustability [m]	Adjustment range [m]	Load capacity [kg]		
			1.000	2.000	3.000
1,5	+/- 0,5	1,0 - 2,0	●	●	—
2,5	+/- 1,0	1,5 - 3,5	●	●	●
4,0	+/- 1,0	3,0 - 5,0	●	●	●

Special Requirements? No Problem!

Custom configurations are available on request. Contact us, and we'll work together to find the right solution.