



# MagnumForce Green

Advantageous in use,  
more gentle to nature.

## MagnumForce Green – orange outside, green inside.

### The heavy-duty round sling with reduced CO<sub>2</sub> footprint.

The MagnumForce Green is the first SpanSet heavy-duty round sling, whose core consists of a renewable basic material. The high-performance bio-based fiber used in its manufacture improves the round sling's CO<sub>2</sub> footprint and thus the CO<sub>2</sub> footprint of each lifting operation. In this way, the MagnumForce Green meets climate protection and safety requirements in equal measure.

The ultra-high molecular weight polyethylene (UHMWPE) is produced from Scandinavian wood oil, which is a by-product of pulp production. The production of one metric ton of bio-based fibers generates significantly less carbon dioxide than conventionally produced UHMWPE fibers. The saving is 29 metric tons.

### Just as strong and safe - but more sustainable!

MagnumForce Green has exactly the same properties in terms of strength and resistance to aggressive substances. UHMWPE fabrics are lighter than polyester fabrics. This simplifies the handling of the round slings. The material thickness under load is only half that of a polyester sling. The round sling is available in nominal carrying capacities from 10,000 to 100,000 kilograms.

### MagnumForce Green vs. polyester round sling:

- certified CO<sub>2</sub> neutral production
- up to 50 % less material thickness under load
- around 25 % less material width under load
- more than 60 % lower dead weight



## MagnumForce Green heavy-duty round sling



|                           | Nominal carrying capacity [kg] | Approx. material thickness under load [mm] | Approx. material width under load [mm] | L1 min. [m] | L1 max. [m] | Approx. weight per running m [kg] | Order number for standard lengths |                        |                        |                        |                        |
|---------------------------|--------------------------------|--|--|-------------|-------------|-----------------------------------|-----------------------------------|------------------------|------------------------|------------------------|------------------------|
|                           |                                |  |  |             |             |                                   | 4 m                               | 5 m                    | 6 m                    | 7 m                    | 8 m                    |
| MagnumForce Green 10,000  | 10,000                         | 7  | 70                                     | 2           | 30          | 0.8                               | D087962<br>GID 2024073            | D087963<br>GID 2024074 | D087964<br>GID 2024075 | D087965<br>GID 2024076 | D087966<br>GID 2024078 |
| MagnumForce Green 20,000  | 20,000                         | 18   | 91                                     | 2           | 30          | 1.6                               | D087967<br>GID 2024079            | D087968<br>GID 2024080 | D087969<br>GID 2024081 | D087970<br>GID 2024082 | D087971<br>GID 2024083 |
| MagnumForce Green 30,000  | 30,000                         | 20   | 115                                    | 2           | 30          | 2.6                               | D087972<br>GID 2024084            | D087973<br>GID 2024085 | D087974<br>GID 2024086 | D087975<br>GID 2024087 | D087976<br>GID 2024088 |
| MagnumForce Green 40,000  | 40,000                         | 22   | 135                                    | 3           | 30          | 3.4                               | D087977<br>GID 2024089            | D087978<br>GID 2024090 | D087979<br>GID 2024091 | D087980<br>GID 2024092 | D087981<br>GID 2024093 |
| MagnumForce Green 50,000  | 50,000                         | 23   | 152                                    | 3           | 30          | 4.2                               | D087982<br>GID 2024094            | D087983<br>GID 2024095 | D087984<br>GID 2024096 | D087985<br>GID 2024097 | D087986<br>GID 2024098 |
| MagnumForce Green 60,000  | 60,000                         | 23   | 165                                    | 3           | 30          | 5.0                               | D087987<br>GID 2024099            | D087988<br>GID 2024100 | D087989<br>GID 2024101 | D087990<br>GID 2024102 | D087991<br>GID 2024103 |
| MagnumForce Green 80,000  | 80,000                         | 27   | 200                                    | 3           | 30          | 6.1                               | D087992<br>GID 2024104            | D087993<br>GID 2024105 | D087994<br>GID 2024106 | D087995<br>GID 2024107 | D087996<br>GID 2024108 |
| MagnumForce Green 100,000 | 100,000                        | 35   | 190                                    | 3           | 30          | 7.1                               | D087997<br>GID 2024109            | D087998<br>GID 2024110 | D087999<br>GID 2024111 | D088000<br>GID 2024112 | D088001<br>GID 2024113 |

## MagnumForce Green – certified safety.

**Our supplier** DSM from the Netherlands is the only manufacturer worldwide to market the sustainable yarn under the brand name bio-based Dyneema® fiber. The core yarn is certified according to ISCC (International Sustainability and Carbon Certification).

**In endurance testing**, the MagnumForce Green was loaded 20,000 times to its load capacity, verifying the best core construction. This is an indication of long service life and therefore high cost-effectiveness.

**The suitability** for use of the MagnumForce Green was verified by DNV GL (Det Norske Veritas Germanischer Lloyd), one of the world's leading certification companies, and confirmed with the internationally recognized Verification Report.

**Our factory standard** places high demands on our products that go beyond the applicable standards and guidelines. The MagnumForce Green has passed all tests and inspections with flying colors.



### Digital operating instructions and Declaration of Conformity:

We reduce paper consumption. Each MagnumForce Green has a tag. By scanning the applied QR code or entering the domain, you can retrieve your desired documents at any time.



More information can be found here:  
[www.spanset.com](http://www.spanset.com)



SpanSet GmbH & Co. KG

Jülicher Straße 49-51  
52531 Übach-Palenberg  
Tel +49 (0) 24 51 48 31-0  
info@spanset.de  
www.spanset.de





## MagnumForce Green – strong, safe and sustainable

With the **MagnumForce Green**, SpanSet is setting new standards in lifting technology in terms of safety and environmental awareness. Through the processing of **bio-based fibers** in the core, the heavy-duty round sling generates a significantly lower CO<sub>2</sub> footprint. In addition, the MagnumForce Green optimally meets the diverse requirements of a **wide range of industries** and **covers the entire spectrum of applications**.

Proven SpanSet design features and **innovative high-performance materials** have been **optimally matched** and recombined in the round sling. **The result:** Maximum safety and perfect handling complemented by conscious sustainability in every lifting operation.

### The use of recycled UHMWPE

...contributes to sustainability. The MagnumForce Green core is made of a high-performance bio-based fiber that significantly reduces the CO<sub>2</sub> footprint of the round sling and thus also the CO<sub>2</sub> footprint of each individual lifting operation. The ultra-high molecular weight polyethylene (UHMWPE) also exhibits greater strength compared to polyester. This means less material is needed for slings of the same load capacity. This makes the MagnumForce Green more sustainable, more compact and lighter.



### Low elongation

...leads to a direct build-up of force when the load is lifted and thus enables precise lifting operations.

### High durability

...leads to long service lives and therefore **high cost-effectiveness**. Among other things, this is ensured by the sleeve: Its **ribbed construction** reinforced with high-performance fibers reduces abrasion and improves cut resistance. In addition, it is characterized by low formation of wrinkles, which also reduces wear. And last but not least, MagnumForce Green is UV-resistant.

### 60% lighter

...lighter than conventional polyester slings. This makes **handling** and **transport** easy. Industrial trucks for transport and hooking are not necessary. The process acceleration **saves time and money**.



### 50% less contact thickness

...under load than with conventional polyester slings allows them to be attached to smaller radii. **Advantage:** No time-consuming application of protection sleeves, wider application range, less application errors.



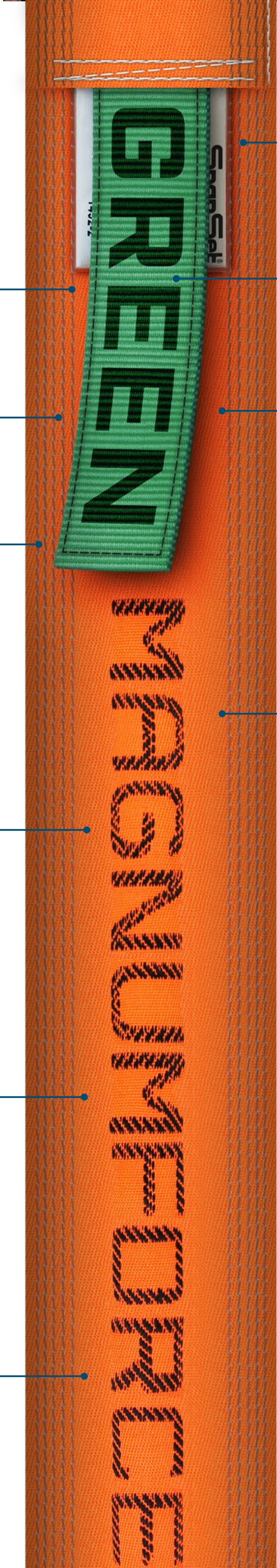
### Fits in even small crane hooks

...without being compressed.



### The RFID transponder

...on the label makes it possible to digitally document testing – a very simple process with IDXpert Net, the associated SpanSet database software. We would be happy to present the system to you. Simply make an appointment with us!



### Sustainability

...is not only shown by the use of sustainable materials in the core of the round sling. SpanSet operates its own environmental management system, for example. Our customers also benefit from this in a very concrete way when we simply repair their damaged MagnumForce Green. In this way, we not only protect important resources, but also their budget.

### The marking

...The marking by a sewn-in green strap with the inscription „Green“ signals to users at first glance that they leave a significantly lower CO<sub>2</sub> footprint with the lifting process than with a conventional heavy-duty round sling.

### The carrying capacity data

...is woven into the sling in a raised position and is therefore always recognizable, even when it is very dirty. This rules out any incorrect use and eliminates the need for replacement or repair. In short: **MagnumForce Green is certainly more economical.**



### Buoyancy

makes MagnumForce ideal for off-shore application: It is easy to recover should it drop into the water by accident.

### The compatibility

#### + Shackle

...in combination with the MagnumForce Green additionally increase safety with the same load capacity. We have tested this in cooperation with the BGHM (Berufsgenossenschaft Holz und Metall).

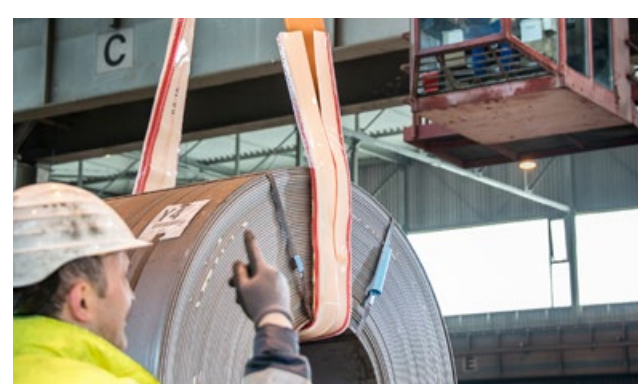


#### + Protection sleeves

...protect the MagnumForce Green against sharp edges. The MagnumForce combinations with NoCut or secutex protection sleeves have been tested on the sharpest radii under load.



SpanSet NoCut® sleeve – the textile protection sleeve.



secutex-Schutzschläuche – one and two-sided coatings of sleeves and clips.