

Information about REMA lifting slings and round slings

REMA lead in the area of production and sales of round slings and lifting slings for use in industry, construction and offshore.

All REMA lifting slings and round slings feature a safety label and meet European Standard EN 1492-2.

Colour coding:

Blue label polyester (PES)
Orange label high performance polyethylene (HPPE)

Part of the label is sewn under the strap, so the strap always remains traceable, even if the label is illegible, damaged or torn off.

Polyester (PES)

Product range Lifting slings and round slings.
Strap/sleeve Colour/stripe coding for each tonnage.
Label Blue.
Properties Excellent UV resistance.
 High resistance to damage from high temperatures.
 High tensile strength in relation to specific weight.
 Lower elongation at safe working load.
 No loss of strength in wet condition.
 Resistant to most acids.
Application Used in almost all industries.

High Performance Polyethylene (HPPE)

Product range Circular round sling and protective sleeves.
Strap White, colourfast, non-run, red wear warning threads.
Label Orange.
Properties Extremely high tensile strength in relation to specific weight.
 Wear-resistant, extremely resistant to friction, approx. 7x better than PES.
 Very high resistance to cutting by sharp edges and corners.
 User-friendly, only one-eighth as heavy as comparable WLL steel sling.
 Long service life and is used in demanding conditions.
 Resistant to alkalis and acids.
 Minimum elongation.
 Less suitable in high ambient temperatures.
Application Lifting of steel coils, natural stone and other heavy, irregularly-shaped loads with sharp edges.

Important information on use

- Never exceed the safe working load indicated.
- Avoid shock loads!
- For loads with sharp edges or rough surfaces, protective gear must be used.
- Lifting slings must be used such that they are loaded across their entire width.
- Use lifting slings and round slings such that the load cannot be distadged.
- Never pull the lifting sling or round sling out from under the load if this is lying on it.
- Never drop lifting slings with steel triangles.
- Polyester lifting slings and round slings must never be used in an alkaline environment.
- Nylon (polyamide) lifting slings must never be used in an acidic environment.
- Never use lifting slings or round slings outside the temperature range of -40°C to +100°C.
- For lifting slings with steel triangles, a working temperature of -20°C to +100°C applies.
- Inspect the lifting sling or round sling visually before use.
- Never use a worn or damaged lifting sling or round sling.
- Never use a lifting sling or round sling whose label is illegible or missing.
- Lifting slings and round slings must never be knotted.

WLL 1000 KG
 POLYESTER
 EN-1492-2
 S.NR
1234567891.

DATUM/DATE: 06.14
 REMA

POLYESTER

 800 KG	 2000 KG
 1400 KG	 1000 KG
 500 KG	 500 KG

CE EN 1492-2

Datum/ date:
 06.14

Lengte
 Länge
 Length
 Longueur
 0.5
 Mtr.

WLL 1000 KG

REMA®

S-5

Art.Nr. 1301000

Storage

- Preferably in a dry, cool and ventilated place.
- Protect against direct sunlight, weather influences and aggressive substances.

Technical information

* Decomposes on exposure to concentrated sulphuric acid.

Greater chemical concentrations and/or higher temperatures reduce the chemical stability of the fabric.

	PES-polyester	HPPE-polyethylene	PA-polyamide (nylon)
Strength (grams/denier)	7-10 GPD	32-44 GPD	8-9 GPD
Specific weight (kg)	1.38	0.97	1.14
Elongation at WLL	3-4%	0.5-1%	6-8%
Elongation at failure	12-18%	3.5-3.8%	15-28%
Moisture absorption	1% of own weight	0% of own weight	9% of own weight
Coefficient of friction	0.12-0.15	0.08	0.10-0.12
Ambient temperature	-40°C - 100°C	-50°C - 155°C	-40°C - 100°C
Melting temperature	254-260°C	144-155°C	218-258°C
Buoyant	no	yes	no

Material	Acids	Alkalies	Ethers	Aldehydes	Alcohol	Oils	Organic solvents	Water and seawater
Polyester	yes*	no	no	no	yes	yes	yes	yes
Polyamide	no	yes	yes	yes	yes	yes	yes	yes
Polyethylene	yes	yes	yes	yes	yes	yes	yes	yes



REMA FORCE | round slings for heavy loads

Material

Depending on the application, REMA Force round slings are available in three different versions. The core is always made of 100% Dyneema® strands and the protective outer sleeve is available in three versions:

- Special woven polyester sleeve with greater wear resistance.
- Dyneema® light duty sleeve with high wear resistance.
- Dyneema® heavy duty sleeve with extremely high resistance to cutting and wear.

Features

Dyneema® is a high-grade polyethylene fibre that combines maximum strength with minimum weight. Weight reduction in comparison with steel cable slings of approx. 80%.

Standards

- REMA Force round slings are manufactured according to the Machinery Directive with CE mark.
- REMA Force round slings are tested to 2 x WLL before delivery.

Applications

REMA Force round slings with heavy duty protective sleeve have been specially developed for applications with extreme friction and danger of cutting such as the lifting of steel coils. (Fig. 2)

REMA Force round slings with light duty protective sleeve are used where great wear resistance is required together with flexibility.

REMA Force round slings with polyester protective sleeve are used where less wear resistance is needed.

REMA Force lifting slings are exceptionally suitable for repetitive lifting work, due to their maximum strength and minimum weight.

Lower costs are achieved through reduced work force requirements and time gains when attaching loads, fewer hand injuries and back complaints etc.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

REMA FORCE | protective sleeve

The most common damage to lifting slings and round slings is caused by cutting or extreme friction. By making use of the Dyneema® protective sleeve which serves as a buffer between the load and the lifting sling, the sling can be protected against cutting and/or friction. The sleeve can easily be slid over the sling or stop. The Dyneema® sleeve gives seven to eight times better protection against friction than a polyester sleeve.

Two qualities are available:

- 1) DNLD flexible version offers very good protection against friction.
- 2) DNHD heavy version against extreme friction and very good resistance to cutting.

Available: Internal width: 65, 75, 90, 115, 125, 145, 175, 205, 275 and 335 mm.

REMA FORCE | edge protector

The Dyneema® edge protectors have been specially developed for the REMA Force round slings from **8 tonnes** to **115 tonnes** (Fig. 5). The Dyneema® edge protectors are used when a high risk of cutting is present. They are easy to fit with Velcro fixing.

Available internal widths: 125, 135, 155, 185, 230, 285, 345 and 460 mm.

CAUTION!

- Shifting of the load must be avoided at all times: movement of the load across the width of the lifting equipment can lead to serious cutting!

Prices on request