



# ESLINGAS SINTETICAS

## SuperMax<sup>®</sup> Chain



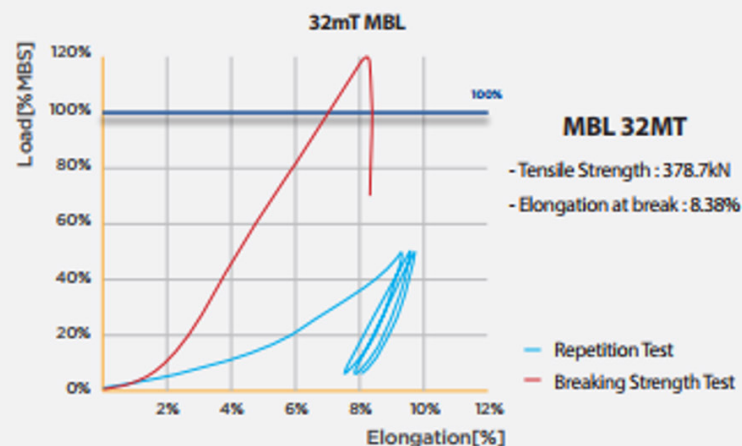
Product name : SuperMax Chain  
Explanation of products :  
SuperMax<sup>®</sup>Chain is THE WORLD'S STRONGEST fiber Chain.

### PRODUCT DETAIL

Strong		The world's strongest fiber Synthetic chains.Stronger than toughened steel and synthetic alternatives.
Light Weight		1/8 Of regular steel chain weight yet just as strong. Light enough for one person to work with all day long.
Resistance		Cuts and abrasions, dirt, UV, water, salt, chemicals, low temperature and non conductive.
Soft		Does not damage the moving object.
Safety		SuperMax <sup>®</sup> Chain contribute to reduced accidents and damage for both crew and cargo.

### SPECIFICATION

#### MBL TEST



**SuperMax<sup>®</sup> Chain is THE WORLD'S STRONGEST fiber Chain.**

The webbing is layered and twisted to form the links, which when combined form a chain.  
An entire chain is as strong as hardened steel, is light enough for one person to carry, and strong enough to lash outsize cargo.





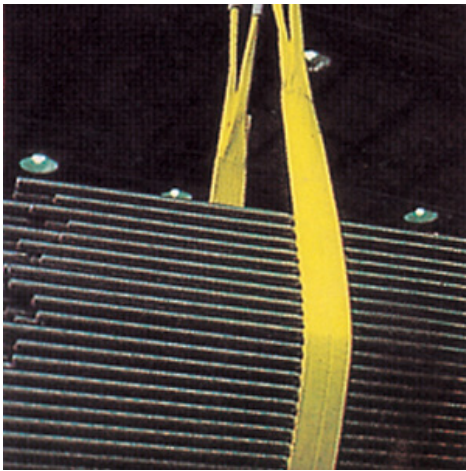
Product name : Lashing Systems

Explanation of products :

DSR's lashing webbings are produced from controlled tenacity polyester yarns. Metal components are selected to suit lashing webbings and meet international standards.

Properties

25mm 400kg up to 100mm 10,000kg








Product name : Super Sling®

Explanation of products :

Our products are “CE”mark proven by Lloyd’s Register. The “CE”mark can be obtained only when the manufacturer of supplier conforms to the health and safety requirements of Machinery Directive 89/392/EEC which is very difficult to follow as it is strictly controlled its founder E.U.

• Safety Factor 7:1 - DS-1 (Eye to Eye Double Ply Sling)

Color	S.W.L (Ton)	Working Load Limits					MIN B/S
		Straight Pull	Choker Hitch	Basket Pull	Basket 90°	Basket 120°	
							
VIOLET	1TON	1,000Kgs	800Kgs	2,000Kgs	1,400Kgs	1,000Kgs	7,000Kgs
GREEN	2	2,000	1,600	4,000	2,800	2,000	14,000
YELLOW	3	3,000	2,400	6,000	4,200	3,000	21,000
GREY	4	4,000	3,200	8,000	5,600	4,000	28,000
RED	5	5,000	4,000	10,000	7,000	5,000	35,000
BROWN	6	6,000	4,800	12,000	8,400	6,000	42,000
BLUE	8	8,000	6,400	16,000	11,200	8,000	56,000
ORANGE	10	10,000	8,000	20,000	14,000	10,000	70,000
ORANGE	12	12,000	9,600	24,000	16,800	12,000	84,000

### Properties

Light weight and excellent flexibility allow safer and easier handling of your valuable products. Slings are not slippery.

High resistance to chemical and oil contamination.

Various sizes available for every application.

Custom made slings for specific applications can be made to customer specifications.






Special treatment gives excellent resistance to surface abrasion. Various color are available.

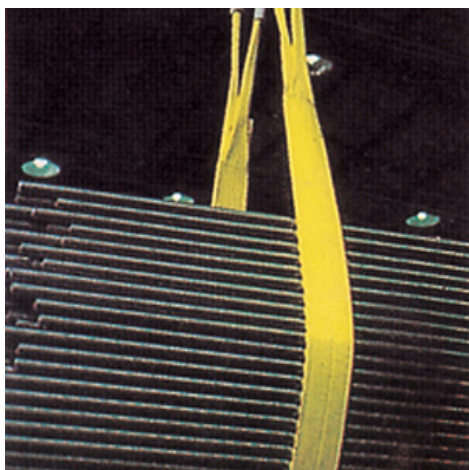
Quality is maintained through constant research.

Special stampings can be applied to the web surface.

Due to strong & high tenacity materials being used in the manufacture, working life of our super sling are dramatically extended, reducing bottom line cost.

• Safety Factor 7:1 - DS-2 (Endless Single Ply Sling)

Color	S.W.L (Ton)	Working Load Limits					MIN B/S
		Straight Pull	Choker Hitch	Basket Pull	Basket 90°	Basket 120°	
							
VIOLET	1TON	1,000Kgs	800Kgs	2,000Kgs	1,400Kgs	1,000Kgs	7,000Kgs
GREEN	2	2,000	1,600	4,000	2,800	2,000	14,000
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**· Safety Factor 6:1 - DS-1 (Eye to Eye Double Ply Sling)**

Color	S.W.L (TON)	Working Load Limits					MIN B/S
		Straight Pull	Choker Hitch	Basket Pull	Basket 90°	Basket 120°	
							
VIOLET	1TON	1,000Kgs	800Kgs	2,000Kgs	1,400Kgs	1,000Kgs	6,000Kgs
GREEN	2	2,000	1,600	4,000	2,800	2,000	12,000
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BROWN	6	6,000	4,800	12,000	8,400	6,000	36,000
BLUE	8	8,000	6,400	16,000	11,200	8,000	48,000
ORANGE	10	10,000	8,000	20,000	14,000	10,000	60,000
ORANGE	12	12,000	9,600	24,000	16,800	12,000	72,000

**Properties**

Light weight and excellent flexibility allow safer and easier handling of your valuable products. Slings are not slippery.

High resistance to chemical and oil contamination.

Various sizes available for every application.

Custom made slings for specific applications can be made to customer specifications.






Special treatment gives excellent resistance to surface abrasion. Various color are available.

Quality is maintained through constant research.

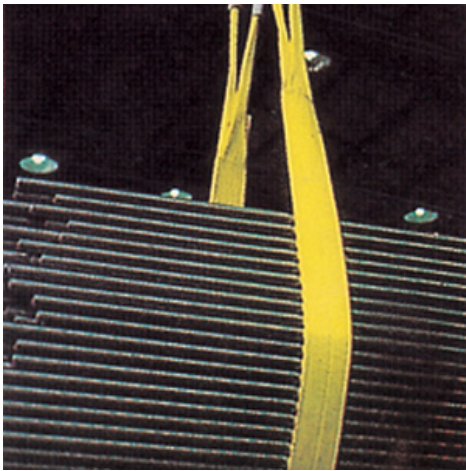
Special stampings can be applied to the web surface.

Due to strong & high tenacity materials being used in the manufacture, working life of our super sling are dramatically extended, reducing bottom line cost.

**· 안전율 6:1 - DS-2 (Eye to Eye Double Ply Sling)**

Color	S.W.L (Ton)	Working Load Limits					MIN B/S
		Straight Pull	Choker Hitch	Basket Pull	Basket 90°	Basket 120°	
							
VIOLET	1TON	1,000Kgs	800Kgs	2,000Kgs	1,400Kgs	1,000Kgs	7,000Kgs
GREEN	2	2,000	1,600	4,000	2,800	2,000	14,000
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Product name : Super Sling®

Explanation of products :

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• **Safety Factor 7:1 - DS-2 (Endless Single Ply Sling)**

Color	S.W.L (Ton)	Working Load Limits					MIN B/S
		Straight Pull	Choker Hitch	Basket Pull	Basket 90°	Basket 120°	
							
VIOLET	1TON	1,000Kgs	800Kgs	2,000Kgs	1,400Kgs	1,000Kgs	7,000Kgs
GREEN	2	2,000	1,600	4,000	2,800	2,000	14,000
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### Properties

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High resistance to chemical and oil contamination.

Various sizes available for every application.

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Special treatment gives excellent resistance to surface abrasion. Various color are available.

Quality is maintained through constant research.

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Due to strong & high tenacity materials being used in the manufacture, working life of our super sling are dramatically extended, reducing bottom line cost.

• **Safety Factor 6:1 - DS-1(Endless Single Ply Sling)**

Color	S.W.L (TON)	Working Load Limits					MIN B/S
		Straight Pull	Choker Hitch	Basket Pull	Basket 90°	Basket 120°	
							
VIOLET	1TON	1,000Kgs	800Kgs	2,000Kgs	1,400Kgs	1,000Kgs	6,000Kgs
GREEN	2	2,000	1,600	4,000	2,800	2,000	12,000
YELLOW	3	3,000	2,400	6,000	4,200	3,000	18,000
GREY	4	4,000	3,200	8,000	5,600	4,000	24,000
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ORANGE	10	10,000	8,000	20,000	14,000	10,000	60,000
ORANGE	12	12,000	9,600	24,000	16,800	12,000	72,000



Product name : Super Web™ (Webbings)

Explanation of products :

Webbing are manufactured from the highest quality durable polyester and nylon fibers. DSR webbings are designed for strength, excellent abrasion resistance and minimized elongation. Webbings are available in a variety of tensile strengths for various applications.

Properties

Light and easy to use, High chemical resistance.

Various use for every application.

#### • SuperWeb

Width		B.S(TON)					
MM	inch	SL I	SL II	SL III	LS I	LS II	LS III
25	1	4.4t	3.9t	3.4t	3.1t	2.7t	2.3t
50	2	8.9t	7.8t	6.8t	6.2t	5.4t	4.5t
75	3	13.3t	11.7t	10.2t	9.3t	8.2t	6.8t
100	4	17.8t	15.6t	13.6t	12.3t	10.9t	9.1t
125	5	22.2t	19.5t	17t	-	-	-
150	6	26.7t	23.4t	20.4t	-	-	-
200	8	35.6t	31.2t	27.2t	-	-	-
250	10	53.3t	46.8t	40.8t	-	-	-
300	12	53.3t	46.8t	40.8t	-	-	-



Product name : Safety Self-Check Sling

Explanation of products :

Safety Self-Check sling with Ultra High Molecular Weight Polyethylene(UHMWPE) could check the life time of SuperMax Round Sling.

Dyneema® fiber is super strong yet lightweight and ensures that you have the most reliable, safe and durable sling solution. Being softer and more flexible than traditional steel wire, slings with Dyneema® enable more precise and faster operations. Feel secure. Only with Dyneema®

Properties

Melting Point : 150°C

Temperature Range for USE : -40°C to 70°C

Elongation at Break : 4 ~ 5%

Specific Gravity : 0.97 (Float)

Water Proportion : None (Wet strength equals Dry strength)

Strongest fiber rope, maximum strength to weight ratio and strength comparable to steel wire rope.







Product name : SuperGuard

Explanation of products :

SuperGuard as method of perfect protection could be applied to SuperMax Rope as well as SuperMax Roundsling. SuperGuard will prevent SuperMax Rope as well as SuperMax Roundsling from abrasion and the life time of ropes and sling will be longer with perfection.

Properties

Longer life time of SuperMax Rope & SuperMax Roundsling is guaranteed. High abrasion resistance.



Product name : SuperMax<sup>®</sup> Jacket Sling

Explanation of products :

SuperMax<sup>®</sup> Round Sling is covered with the jacket to protect the inside of ropes and prevent damaging.

Dyneema<sup>®</sup> fiber is super strong yet lightweight and ensures that you have the most reliable, safe and durable sling solution. Being softer and more flexible than traditional steel wire, slings with Dyneema<sup>®</sup> enable more precise and faster operations. Feel secure. Only with Dyneema<sup>®</sup>

Properties

Longer life time of rope is guranteed.  
High abrasion resistance.





Product name : SuperMax® RoundSling






Explanation of products :

SuperMax® Round Sling is made of Ultra High Molecular Weight Polyethylene(UHMWPE) yarn covered by durable nylon cover to make high performance lifting round slings. While designed SuperMax® Round Sling, our goal was lightest lifting gear with higher breaking strength of wire rope. DSR used our long experience of designed and manufacturing know-how's to make SuperMax® Round Sling with low elongation while it is stronger than wire rope with less than 10% weight of wire rope. Low elongation of SuperMax® Round Sling makes lifting job much easier and safer. Low elongation enables very lash back. Also, SuperMax® Round Sling is very stable when used with hook, and you can avoid rotating problem of wire rope slings.

Dyneema® fiber is super strong yet lightweight and ensures that you have the most reliable, safe and durable sling solution. Being softer and more flexible than traditional steel wire, slings with Dyneema® enable more precise and faster operations. Feel secure. Only with Dyneema®



#### • ⓈMark Specifications

S.W.L (Safety Working Load) (KG)	Working Load Limits					Safety Factor 7 : 1 Breaking Strength (KG)
	Vertical 	Choker 	45° 	60° 	Basket 	
1,000	1,000	800	1,400	1,000	2,000	2,000
2,000	2,000	1,600	2,800	2,000	4,000	4,000
3,000	3,000	2,400	4,200	3,000	6,000	6,000
4,000	4,000	3,200	5,600	4,000	8,000	8,000
5,000	5,000	4,000	7,000	5,000	10,000	10,000
6,000	6,000	4,800	8,400	6,000	12,000	12,000
8,000	8,000	6,400	11,200	8,000	16,000	16,000
10,000	10,000	8,000	14,000	10,000	20,000	20,000
15,000	15,000	12,000	21,000	15,000	30,000	30,000
20,000	20,000	16,000	28,000	20,000	40,000	40,000
25,000	25,000	20,000	35,000	25,000	50,000	50,000
30,000	30,000	24,000	42,000	30,000	60,000	60,000
35,000	35,000	28,000	49,000	35,000	70,000	70,000
40,000	40,000	32,000	56,000	40,000	80,000	80,000

#### Properties

1/10 of wire rope of same breaking strength. Light weight enables easy installing and handling of sling, and higher productivity of lifting job.

Do not damage the material to be lifted. Positioning is fast and easy.

Can tighten up the material to avoid slip while lifting the products. Only small storage space is required because of its flexibility.

High initial investment cost. However, higher productivity, longer service life, easier handling and storage result in low total operating costs.



Product name : SuperMax® RoundSling

Explanation of products :

SuperMax® Round Sling is made of Ultra High Molecular Weight Polyethylene(UHMWPE) yarn covered by durable nylon cover to make high performance lifting round slings. While designed SuperMax® Round Sling, our goal was lightest lifting gear with higher breaking strength of wire rope. DSR used our long experience of designed and manufacturing know-how's to make SuperMax® Round Sling with low elongation while it is stronger than wire rope with less than 10% weight of wire rope. Low elongation of SuperMax® Round Sling makes lifting job much easier and safer. Low elongation enables very lash back. Also, SuperMax® Round Sling is very stable when used with hook, and you can avoid rotating problem of wire rope slings.

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## Properties

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## General Specifications

S.W.L (Safety Working Load) (KG)	Working Load Limits					Safety Factor 6 : 1 Breaking Strength (KG)	Safety Factor 5 : 1 Breaking Strength (KG)
	Vertical	Choker	45°	60°	Basket		
50,000	50,000	40,000	70,000	50,000	100,000	300,000	250,000
55,000	55,000	44,000	77,000	55,000	110,000	330,000	275,000
60,000	60,000	48,000	84,000	60,000	120,000	360,000	300,000
65,000	65,000	52,000	91,000	65,000	130,000	390,000	325,000
70,000	70,000	56,000	98,000	70,000	140,000	420,000	350,000
75,000	75,000	60,000	105,000	75,000	150,000	450,000	375,000
80,000	80,000	64,000	112,000	80,000	160,000	480,000	400,000
90,000	90,000	72,000	126,000	90,000	180,000	540,000	450,000
100,000	100,000	80,000	140,000	100,000	200,000	600,000	500,000
110,000	110,000	88,000	154,000	110,000	220,000	660,000	550,000
120,000	120,000	96,000	168,000	120,000	240,000	720,000	600,000
130,000	130,000	104,000	182,000	130,000	260,000	780,000	650,000
140,000	140,000	112,000	196,000	140,000	280,000	840,000	700,000
150,000	150,000	120,000	210,000	150,000	300,000	900,000	750,000
200,000	200,000	160,000	280,000	200,000	400,000	1,200,000	1,000,000
250,000	250,000	200,000	350,000	250,000	500,000	1,500,000	1,250,000
300,000	300,000	240,000	420,000	300,000	600,000	1,800,000	1,500,000





Product name : SuperMax® RoundSling

Explanation of products :

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Dyneema® fiber is super strong yet lightweight and ensures that you have the most reliable, safe and durable sling solution. Being softer and more flexible than traditional steel wire, slings with Dyneema® enable more precise and faster operations. Feel secure. Only with Dyneema®



## Properties

1/10 of wire rope of same breaking strength. Light weight enables easy installing and handling of sling, and higher productivity of lifting job.

Do not damage the material to be lifted. Positioning is fast and easy.

Can tighten up the material to avoid slip while lifting the products. Only small storage space is required because of its flexibility.

High initial investment cost. However, higher productivity, longer service life, easier handling and storage result in low total operating costs.

## • Comparison of SuperMax® Round Sling and Wire Rope Sling

	SuperMax® Round Sling	Steel Wire Rope Sling
Weight	1/10 of wire rope of same breaking strength. Light weight enables easy installing and handling of sling, and higher productivity of lifting job.	Because of heavy weight, it's very difficult to move and install the slings. Heavy wire rope sling can cause back pain of the users.
Stability	Do not damage the material to be lifted. Positioning is fast and easy. Can tighten up the material to avoid slip while lifting the products.	Can hurt the material to be lifted. Positioning is slow and difficult.
Durability	Durable against chemical contacts. Because of the flexibility, its bending ratio can be far smaller.	Easy to get rusted against acid or alkali. Because of stiffness, broken wire can occur unless extra care is taken.
Storability	Only small storage space is required because of its flexibility.	Large and dry storage space is required.
Economical Value	High initial investment cost. However, higher productivity, longer service life, easier handling and storage result in low total operating costs.	Low initial cost. However, more manpower and heavier equipments to move, install, and lift are required. Total operating cost is high.