



EL-CAR

www.elcar.ro

Experience is our strength
Complete solutions for lifting

Introduction

Quality products, technical support and very good services- there are customer expectations from their providers partners.

When the company was founded, in 1991, the management team already had a heavy experience in this field. Since 2004, the biggest part of investments is focused on implementation of Quality Management System, in obtaining certifications in field and upgrading our own laboratories.

Certifications:



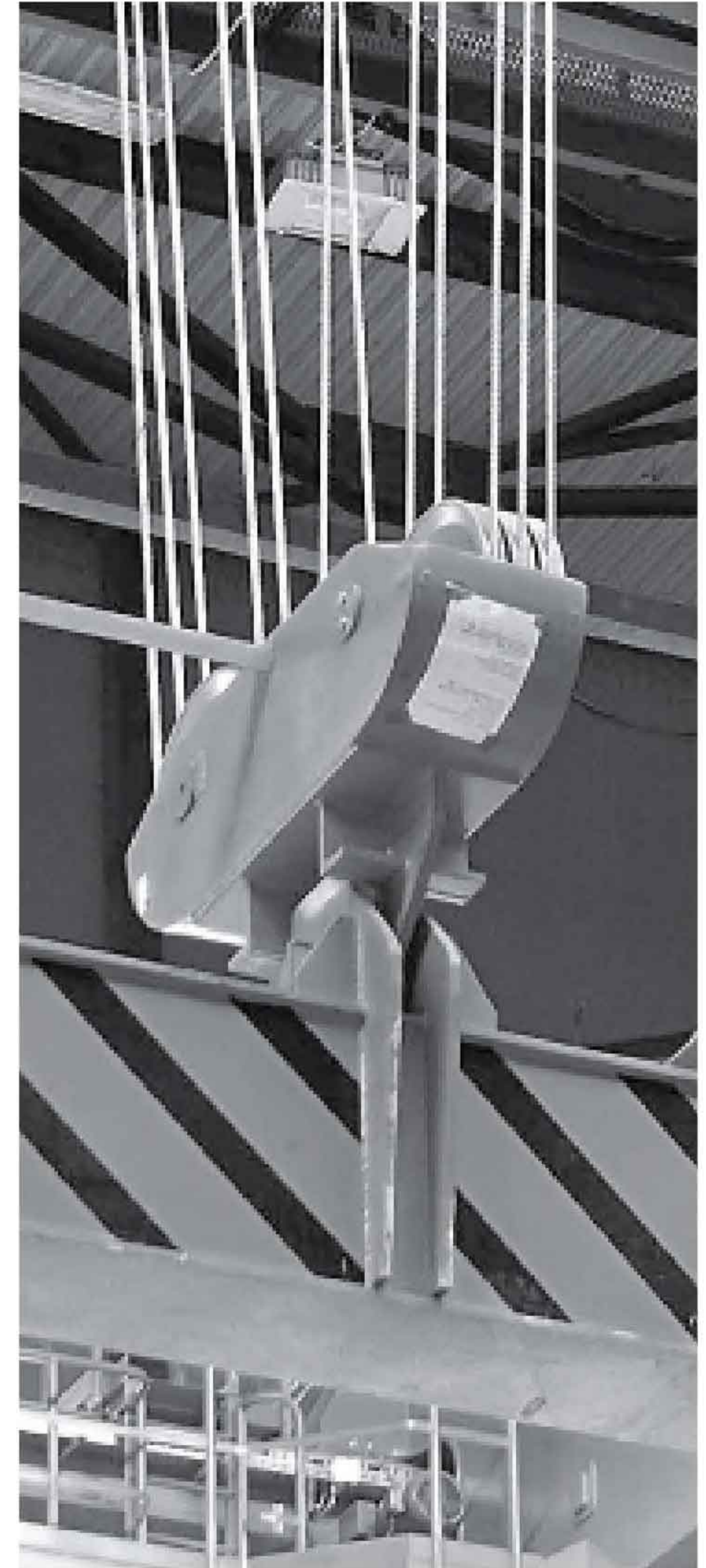
On internal market we are exclusive representative of the world's leader in special steel wire ropes.



WireCo WorldGroup is in global market, manufacturing and technical leader in wire ropes. WireCo WorldGroup markets products under several brands: Casar, Oliveira, Union, Camesa.



Our experience, technologies and exceptional solutions who generates performances over the years, are elements through which we succeed to offer best solutions relating to customer requirements.



Steel wire ropes

Personalised solutions for all industrial field: cranes, forestry, drilling (coal, oil, gas), hanging, lifting.

STANDARD STEEL WIRE ROPE

- Executed according to the main national and international standards (E.N. ; I.S.O. ; A.P.I.)
- Simple construction: STAS 1513; DIN 3052; EN DIN 12385
- Double construction: STAS 1353; DIN 3055; EN DIN 12385
- Double combined construction: STAS 1689; DIN 3058; EN DIN 12385
- Non rotating construction: STAS 2690; DIN 3069; EN DIN 12385
- Bright, galvanized, stainless steel, PVC, coated steel wire ropes

SPECIAL WIRE ROPES

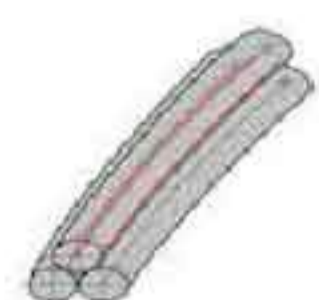
- The design is in accordance with the intended use
- Exceptional performance achieved by combining innovative technologies with a special design of the internal structure

Tehnologies

PARALLEL LAY ROPES

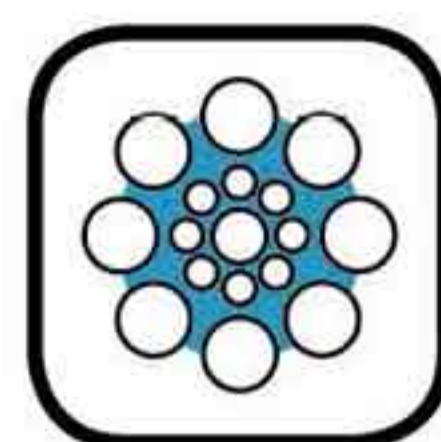


Parallel construction



- In a parallel lay rope all wires and strands have lay length
- The linear contact leads to an optimal stress distribution
- Furthermore the compacted parallel design leads to a higher fill factor and breaking strength

PLAST CORE



Plast core

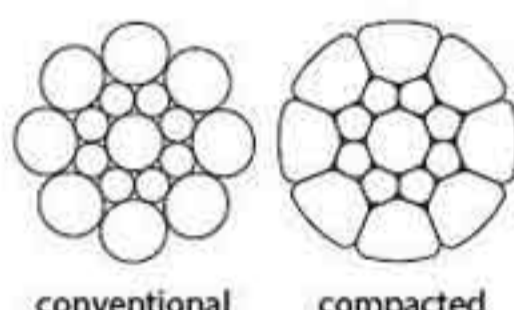


- Stabilizes the rope structure during installation and operation
- Prevents internal wire breaks
- Prevents metal-to-metal contact
- Seals in lubricant. Reduces the maintenance effort

ROPES WITH COMPACTED STRANDS



Compacted



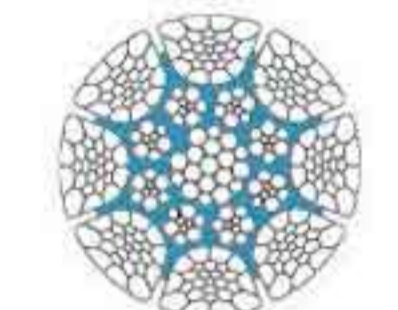
conventional compacted

- Higher breaking load
- Because the thicker outer wires and smaller exposed area they are more resistant to abrasion and corrosion
- Great flexibility
- Better rope-to-rope contact conditions.
- The rope life time on multiple layer drums is optimized.

SWAGED ROPE



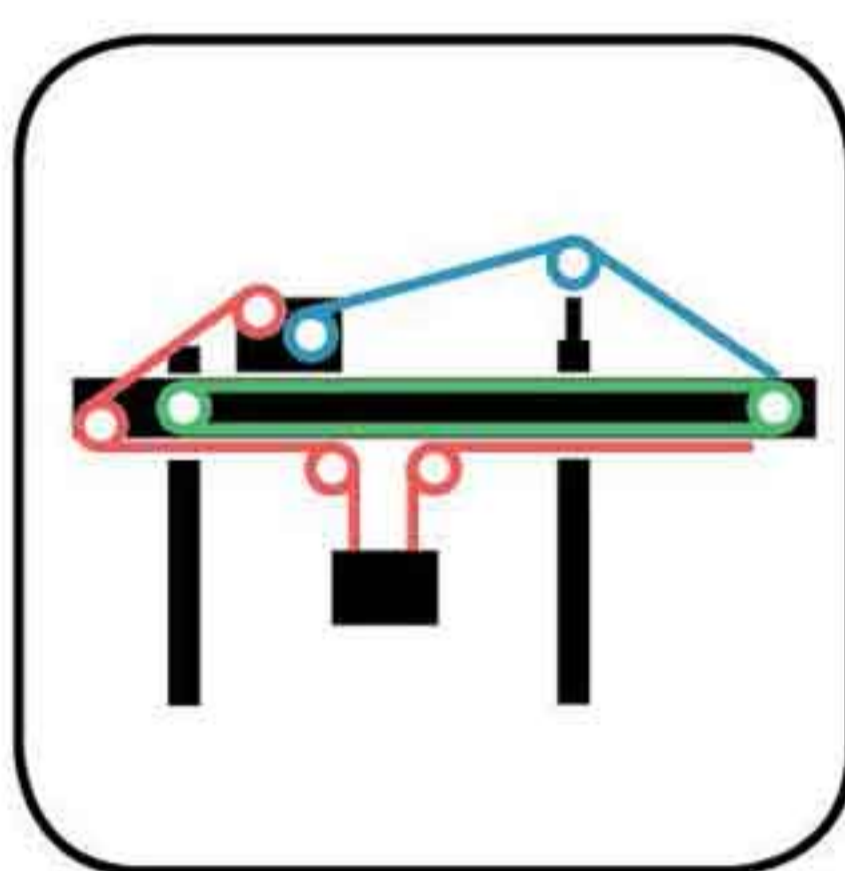
Swaged



- Designed for heavy duty applications
- Extremely high pressure resistance
- Reduced diameter reduction under tension
- High breaking load
- Strongly improved crushing resistance in crossovers
- Extremely smooth surface for less indentations or pressure

Main applications

Container crane



HOIST ROPE

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- CASAR PARAPLAST
- CASAR SUPERPLAST 8
- HD 8 K + PPI

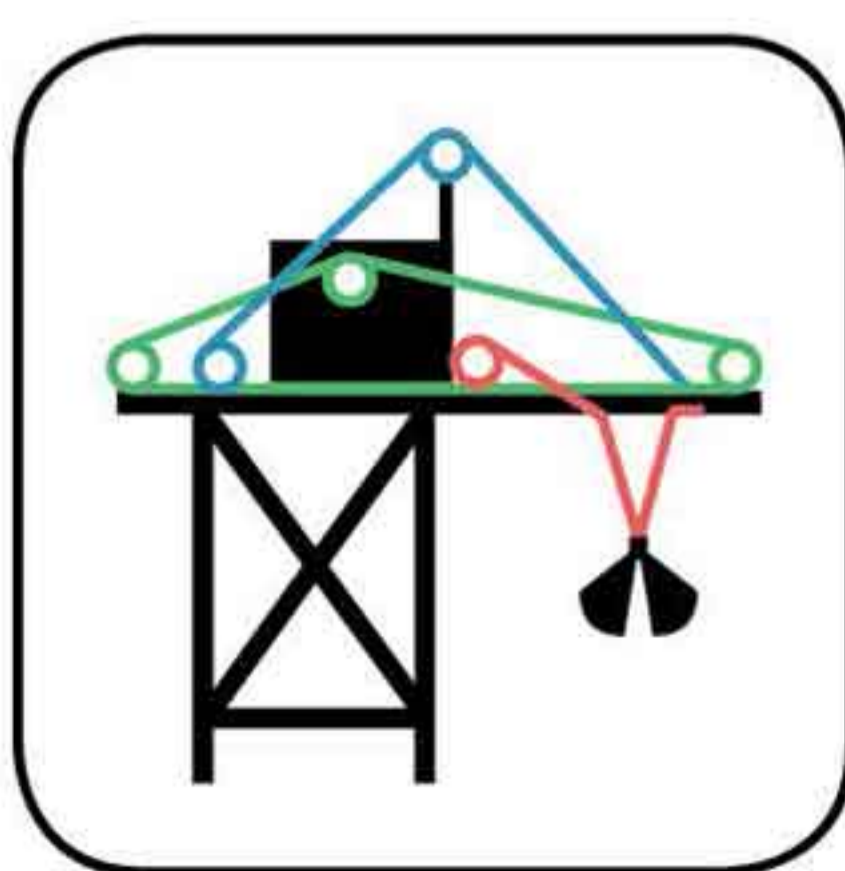
BOOM HOIST

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- CASAR PARAPLAST
- HD 8 K + PPI

TROLLEY/CATENARY

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- HD 8 K + PPI
- SC 8 C + PPI

Ship unloader



HOIST ROPE

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- HD 8 K + PPI

BOOM HOIST

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- HD 8 K + PPI

TROLLEY

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- HD 8 K + PPI
- SC 8 C + PPI

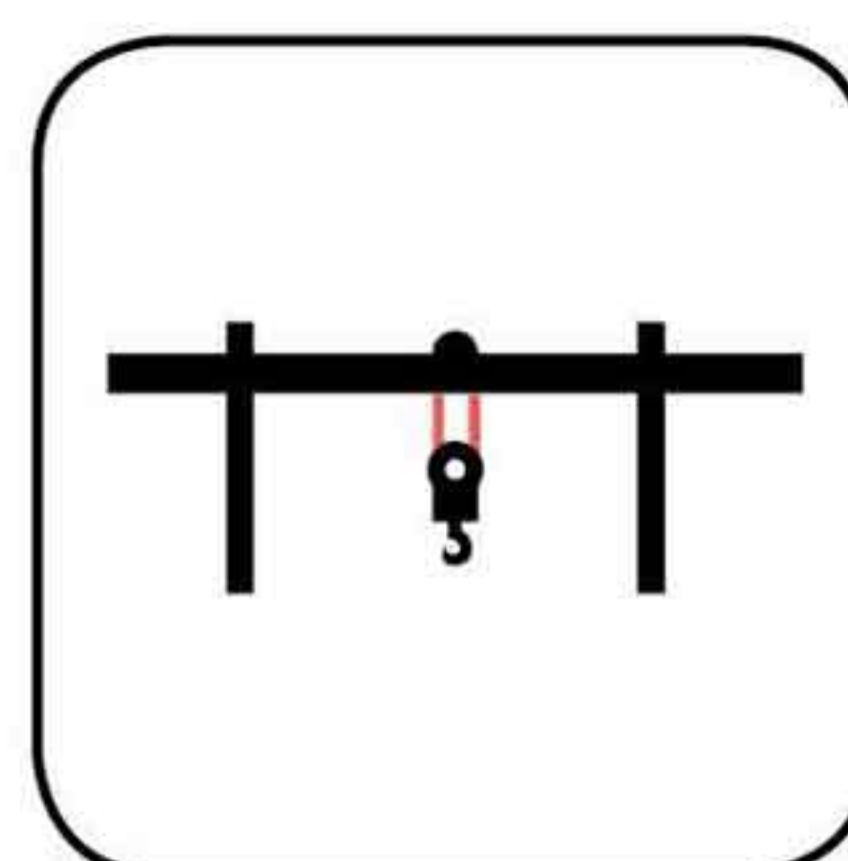
Skidder



HOIST ROPE

- Swaged rope
- Compacted rope

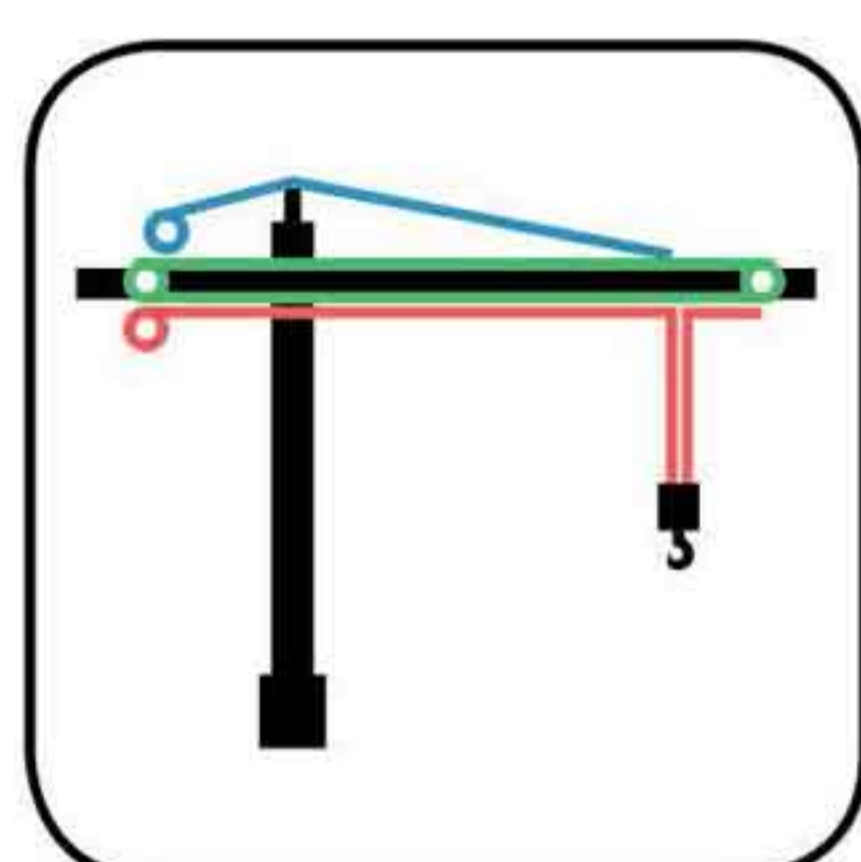
Rubber tired gantry / Rail mounted gantry



HOIST ROPE

- CASAR TURBOPLAST
- CASAR PARAPLAST
- HD 8 K + PPI
- DP 8 K + PPI

Tower crane



HOIST ROPE

- CASAR EUROLIFT
- CASAR STARLIFT
- CASAR STARLIFT PRO
- CASAR STARLIFT XTRA
- CASAR STARLIFT PLUS
- TOWERLIFT 15
- LT 24 C
- LT 24 K

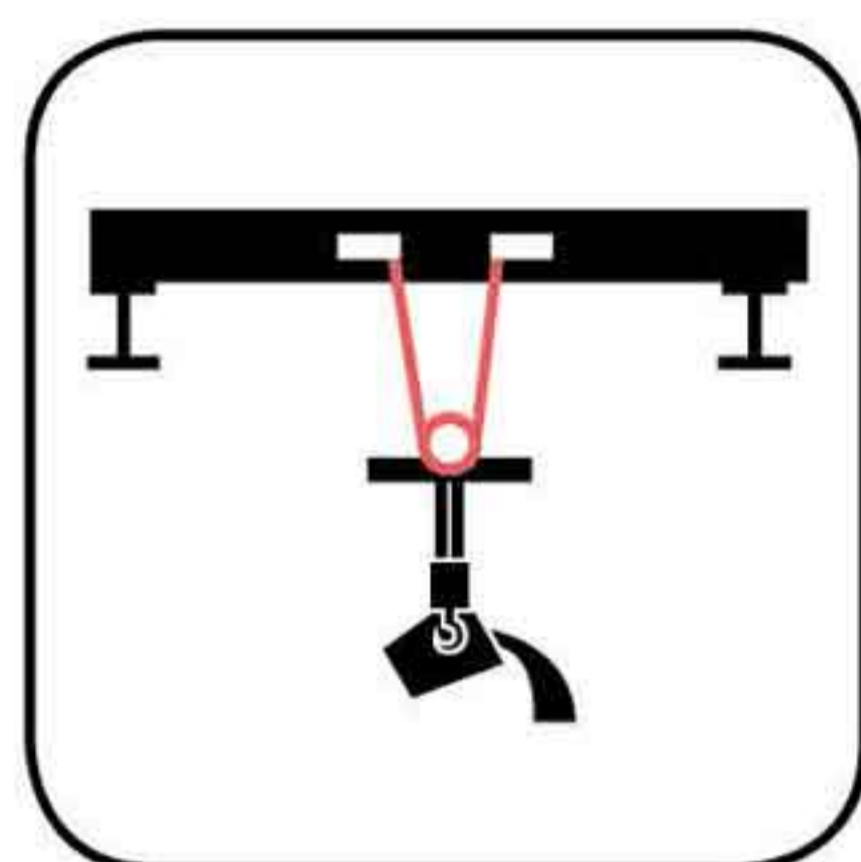
BOOM PENDANT

- CASAR TURBOLIFT
- CASAR STRATOLIFT
- CASAR SUPERLIFT
- HD 8 K + PPI

TROLLEY

- CASAR STRATOPLAST
- CASAR ALPHALIFT
- CASAR UNILIFT
- SC 8 C + PPI
- SC 6 K + PPI

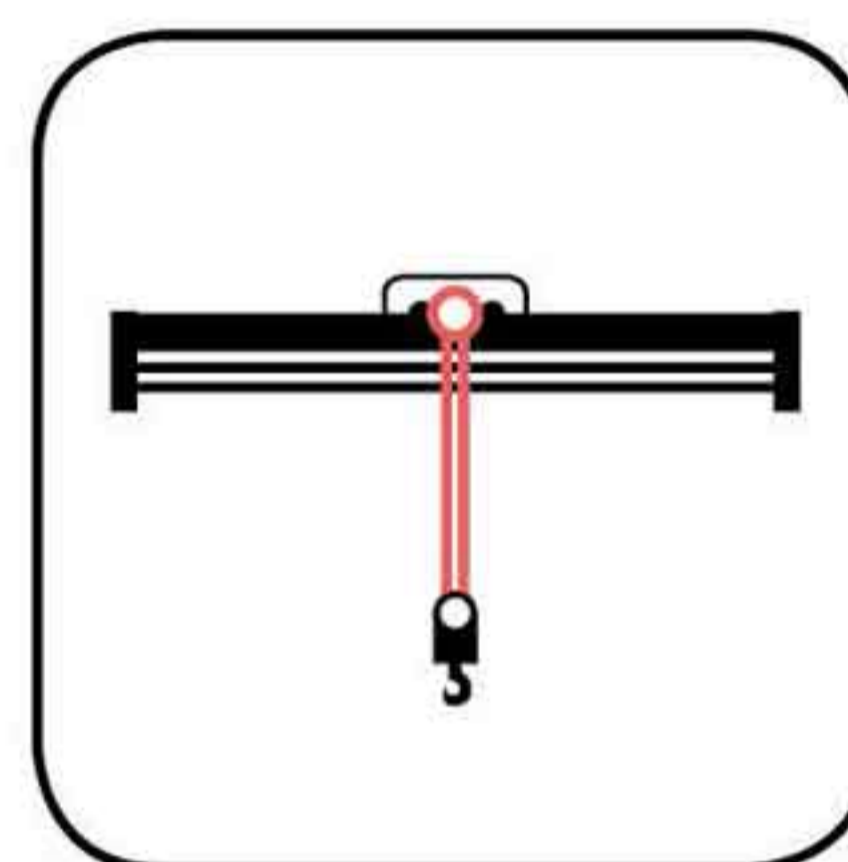
Steel works ladle



HOIST ROPE

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- CASAR TECHNOLIFT
- CASAR TECHNOLIFT PLUS
- HD 8 K + PPI
- SC 8 C + PPI
- SC 6 K

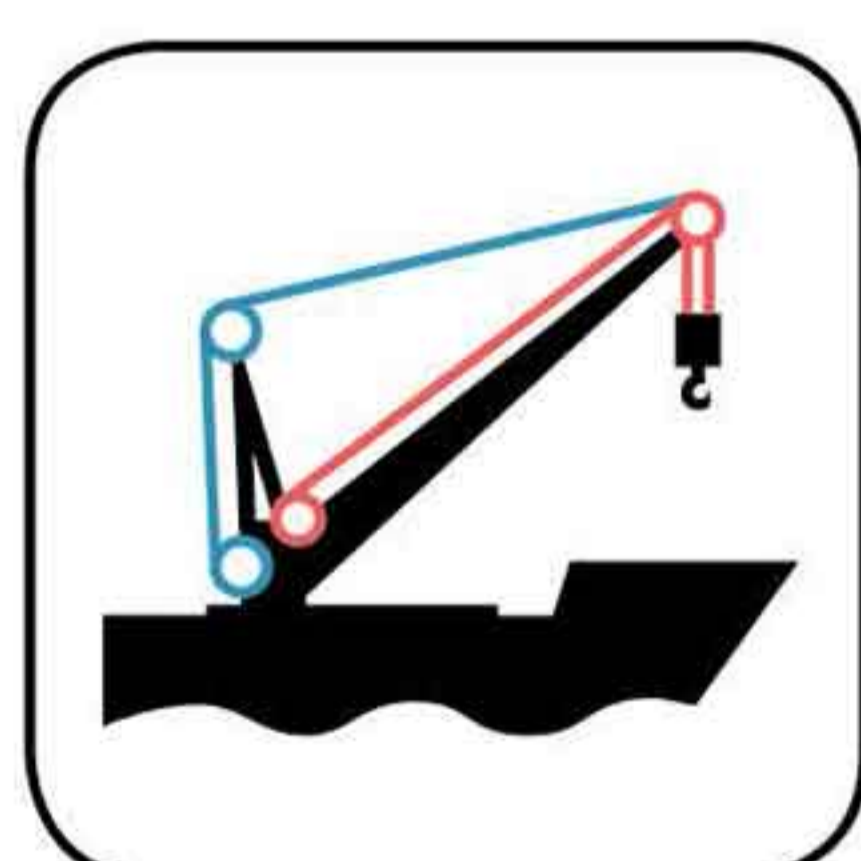
Overhead crane



HOIST ROPE

- CASAR TURBOPLAST
- CASAR STRATOPLAST
- CASAR PARAPLAST
- CASAR SUPERPLAST 8
- CASAR SUPERPLAST 10 MIX
- CASAR SUPERPLAST 10
- CASAR EUROLIFT
- CASAR STARLIFT
- CASAR QUADROLIFT

Deck crane



HOIST ROPE

- CASAR POWERPLAST
- CASAR STARFIT
- CASAR QUADROLIFT
- NR MAXIPACT + PPI
- NR 15 MAXILIFT + PPI

BOOM HOIST

- CASAR TURBOPLAST
- CASAR PARAFIT
- HD 8 K + PPI A

Offshore pedestal crane



HOIST ROPE

- CASAR POWERPLAST
- CASAR EUROLIFT
- NR MAXIPACT + PP

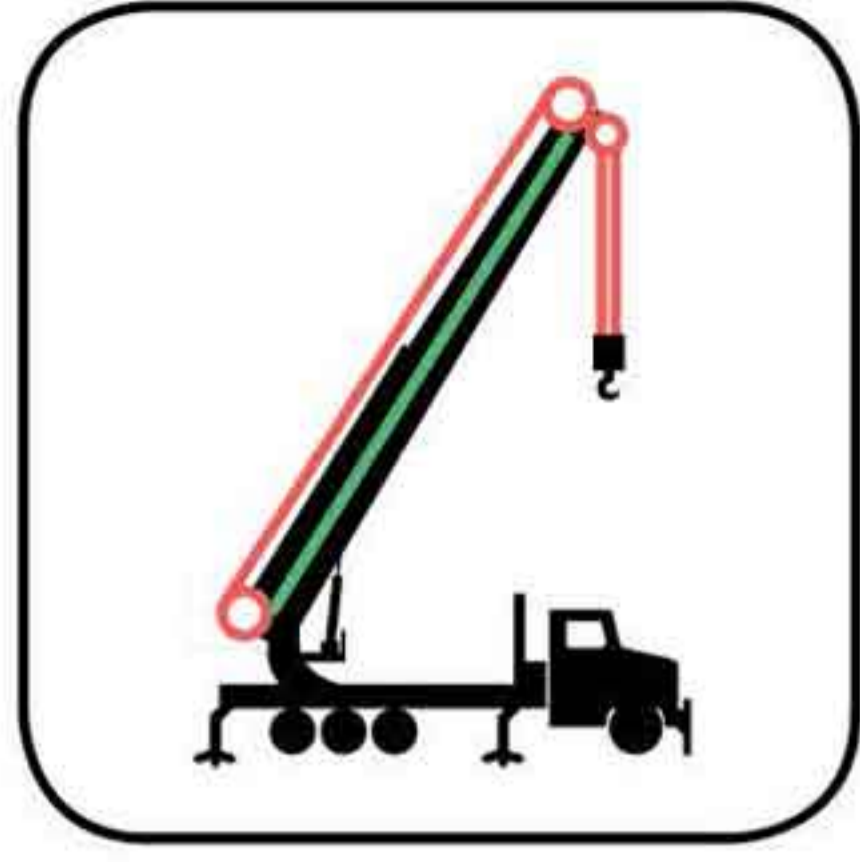
BOOM HOIST

- CASAR TURBOPLAST
- CASAR PARAPLAST
- CASAR SUPERPLAST8
- CASAR PARAFIT
- HD 8 K + PPI

AUXILIARY HOIST

- CASAR STRATOPLAST
- CASAR ALPHALIFT
- CASAR UNILIFT
- SC 8 C + PPI
- SC 6 K + PPI

Telescopic mobile crane



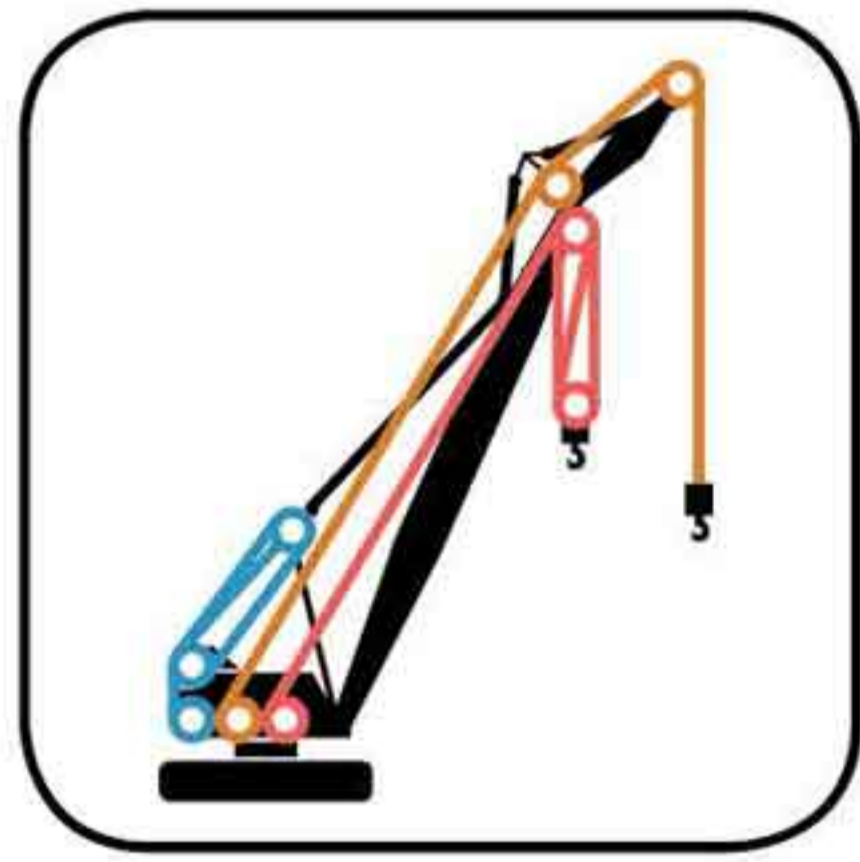
HOIST ROPE

- CASAR EUROLIFT
- CASAR STARLIFT
- CASAR STARLIFT PLUS
- NR MAXIPACT + PPI
- NR 15 MAXILIFT + PPI

RETRACTION ROPE

- CASAR BETALIFT
- CASAR TURBOLIFT

Lattice boom crawler crane



HOIST ROPE

- CASAR EUROLIFT
- CASAR STARLIFT
- CASAR STARLIFT PRO
- CASAR STARLIFT XTRA
- CASAR STARLIFT PLUS
- NR MAXIPACT + PP
- NR 15 MAXILIFT + PPI
- LT 24 K + PPI

BOOM HOIST

- CASAR PARAPLAST
- CASAR SUPERPLAST8
- CASAR PARAFIT
- DP 8 K + PPI
- HD 8 K + PPI

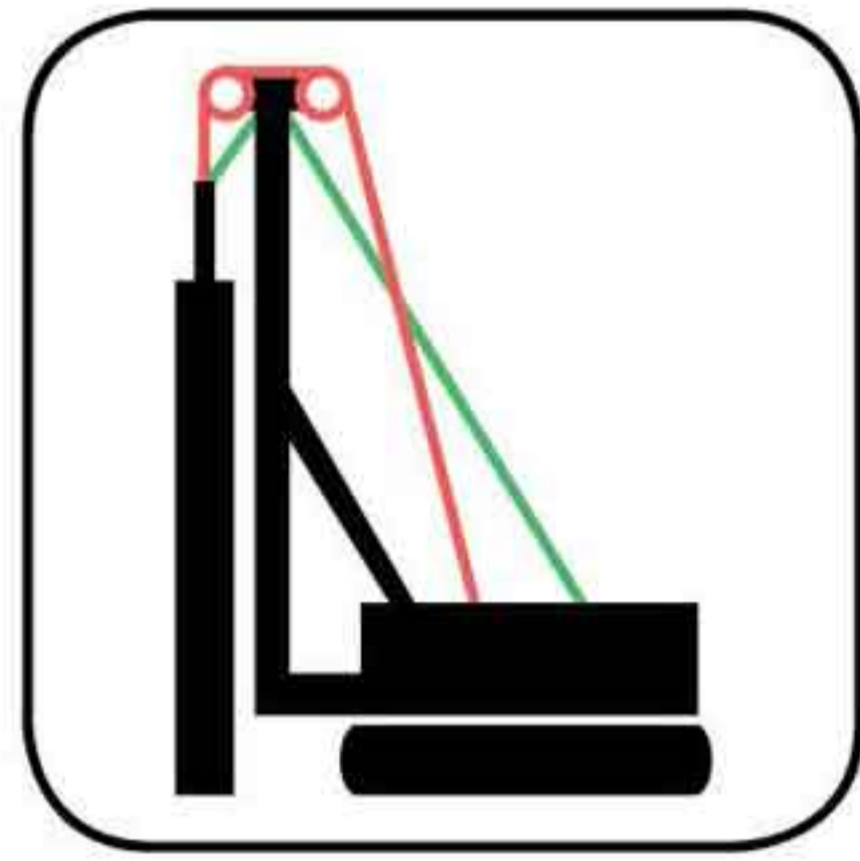
AUXILIARY HOIST

- CASAR EUROLIFT
- NR MAXIPACT + PP
- NR 15 MAXILIFT + PPI

BOOM PENDANT

- CASAR TURBOLIFT
- CASAR STARLIFT
- CASAR SUPERLIFT

Drilling / Piling



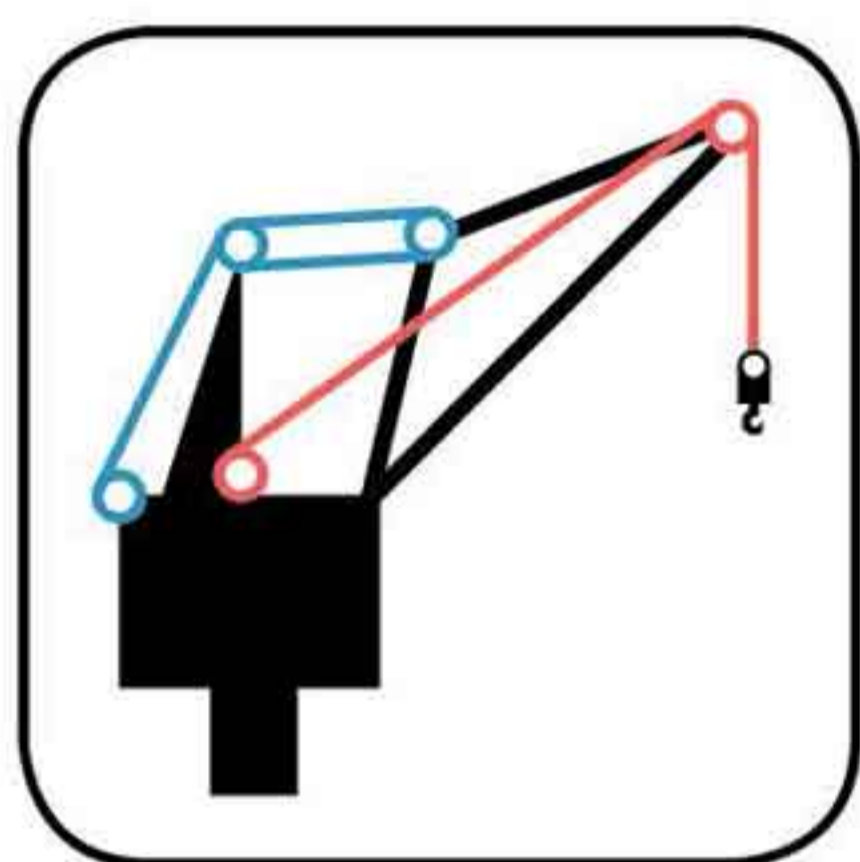
HOIST ROPE

- CASAR POWERPLAST
- CASAR EUROLIFT
- CASAR RAMMBOLIFT
- NR 15 MAXILIFT + PPI

FEED ROPE

- CASAR TURBOPLAST
- HD 8 K + PPI

Harbor mobile crane



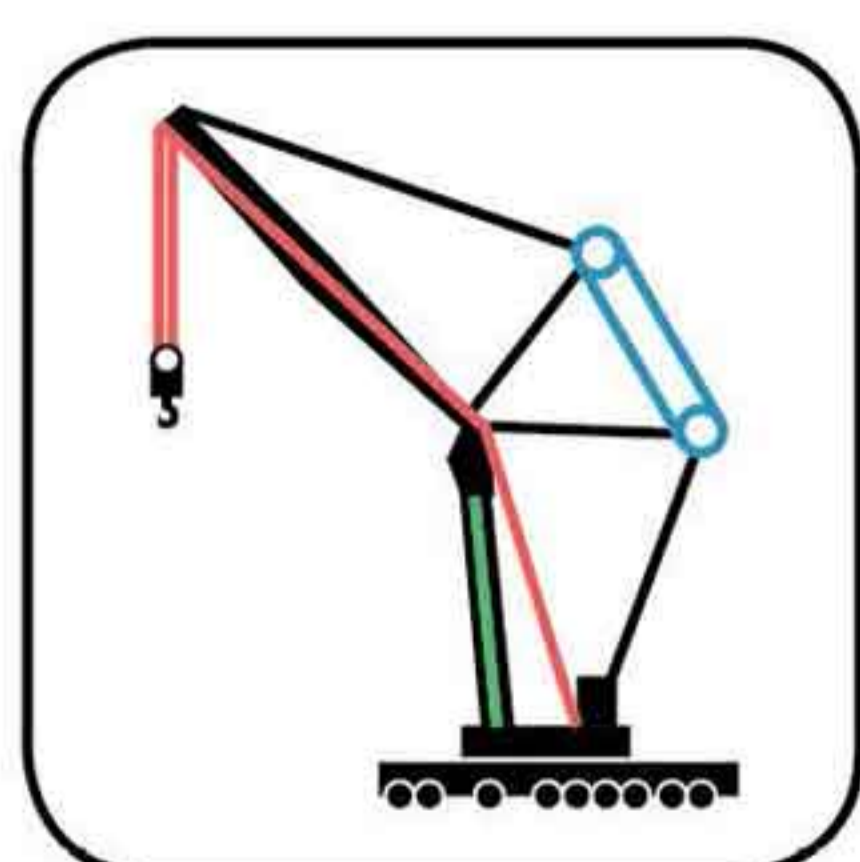
HOIST ROPE

- CASAR TURBOPLAST
- HD 8 K + PPI

BOOM HOIST

- CASAR TURBOPLAST
- CASAR PARAPLAST
- HD 8 K + PPI

Lattice boom mobile crane



HOIST ROPE

- CASAR EUROLIFT
- CASAR STARLIFT
- CASAR STARLIFT PRO
- CASAR STARLIFT XTRA
- CASAR STARLIFT PLUS
- NR MAXIPACT + PPI
- NR 15 MAXILIFT + PPI
- LT 24 K + PPI

BOOM HOIST

- CASAR PARAPLAST
- CASAR SUPERPLAST8
- CASAR PARAFIT
- DP 8 K + PPI
- HD 8 K + PPI

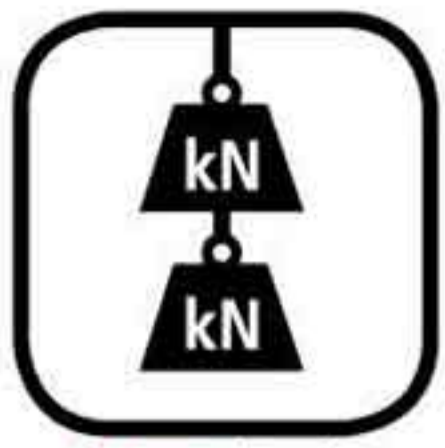
RETRACTION ROPE

- CASAR TURBOLIFT
- CASAR BETALIFT
- CASAR SUPERLIFT

Qualificatives



High breaking force



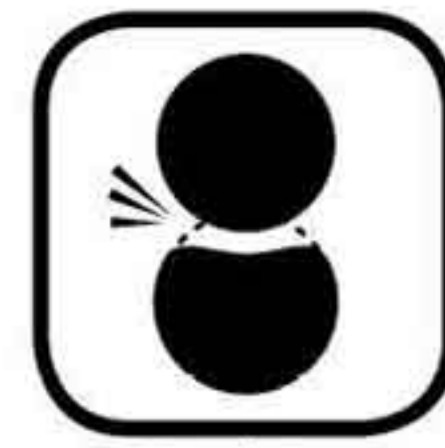
Very high breaking force



Abrasion resistance



High abrasion resistance



Crushing resistance



High crushing resistance



Bending resistance



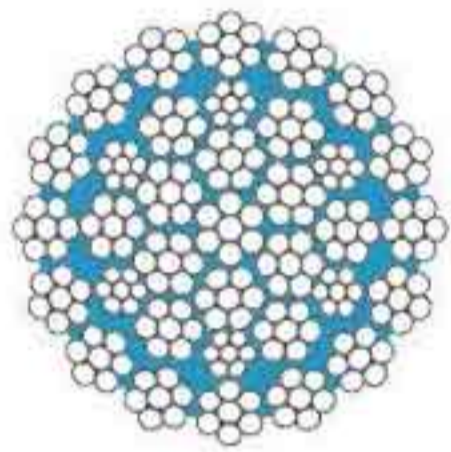
High bending resistance



Swivel

Rope selection guide

ROTATION RESISTANT



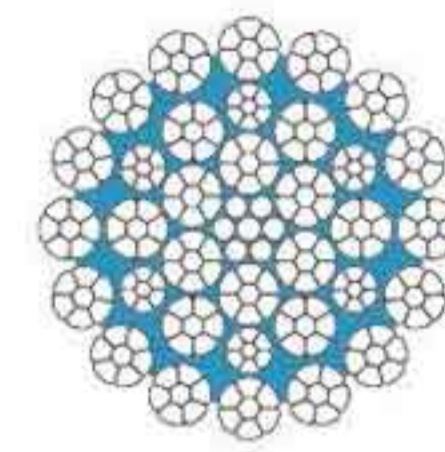
CASAR STARLIFT
Hoist rope for mobile cranes, electrical hoists and other application, where rotation resistance are required.



High bending resistance



Swivel



CASAR STARLIFT PLUS
Compacted hoist rope for mobile cranes, electrical hoists and other application, where rotation resistance are required.



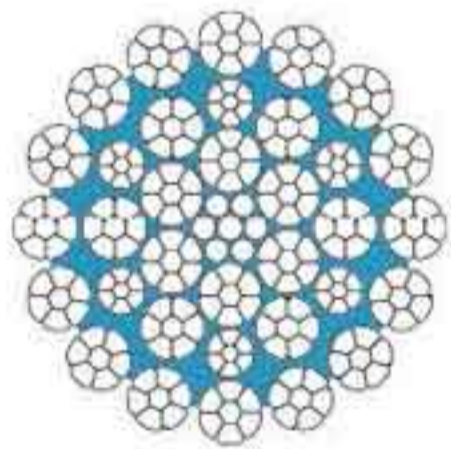
High bending resistance



Swivel



Compacted



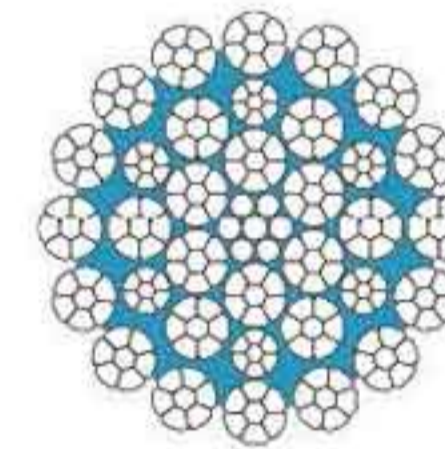
CASAR STARLIFT PRO
Hoist rope for tower cranes, mobile cranes or crawler cranes: unguided load on a single fall.



High crushing resistance



Swivel



CASAR STARLIFT XTRA
Very good resistance against drum crushing and abrasion on drums. Hoist rope for mobile cranes, electrical hoists and other application, where rotation resistance are required.



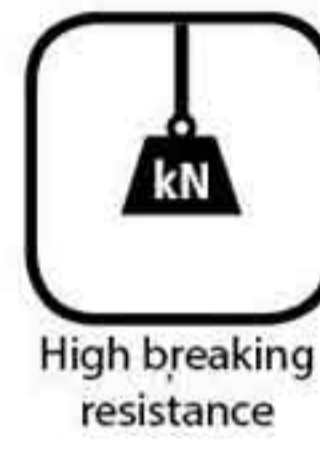
High abrasion resistance



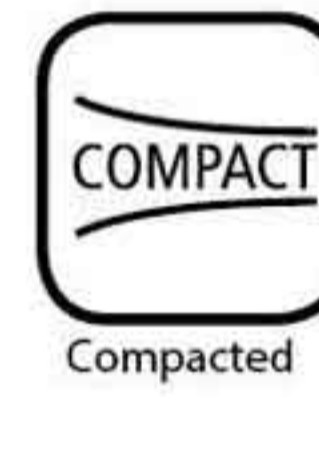
Swivel



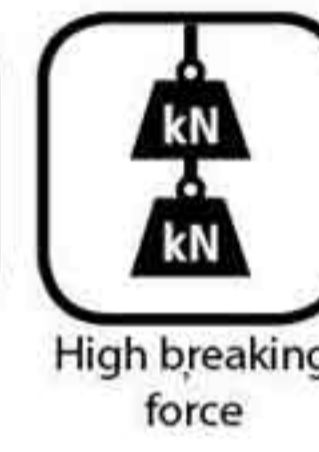
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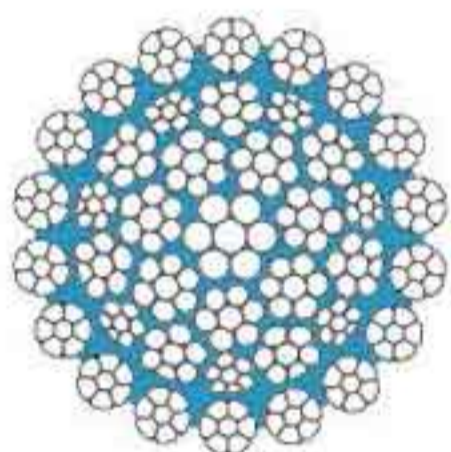
High breaking force



Compacted



High breaking force



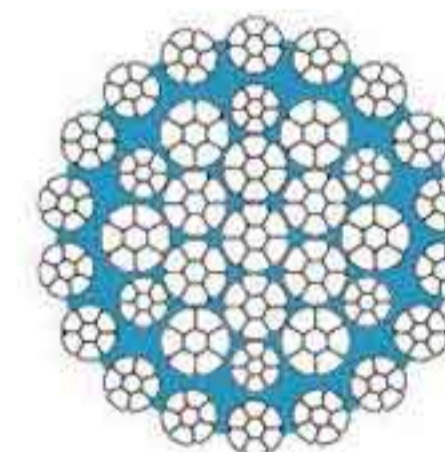
CASAR EUROLIFT
Hoist rope for mobile cranes, electrical hoists and other application, where rotation resistance are required.



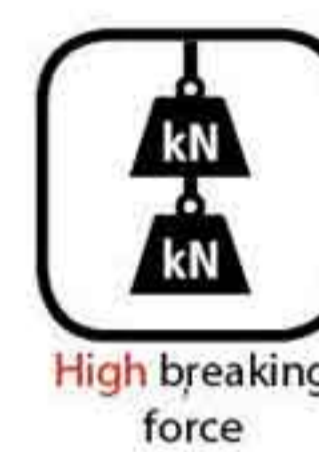
Swivel



Compacted



CASAR POWER PLAST
Hoist rope for deck cranes and offshore cranes, pull-in riser and other application in the marine environment, when rotation resistance rope are required.



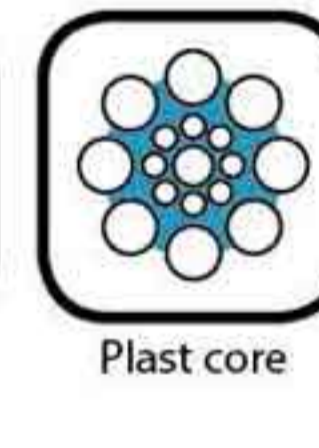
High breaking force



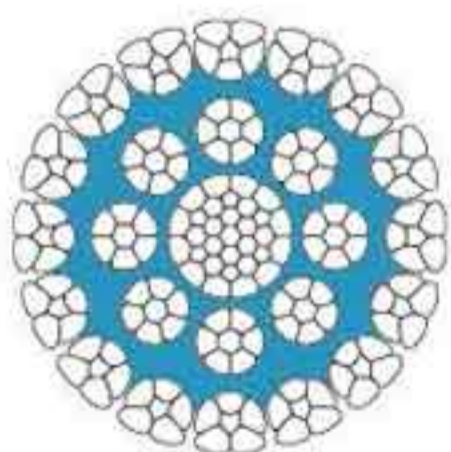
Swivel



Compacted



Plast core



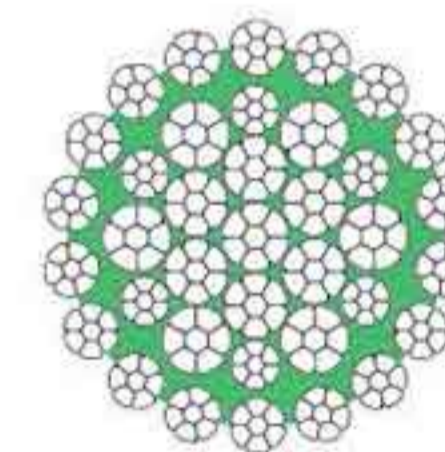
CASAR STARFIT
Hoist rope for deck cranes and offshore cranes, pull-in riser and other application in the marine environment, when rotation resistance rope are required.



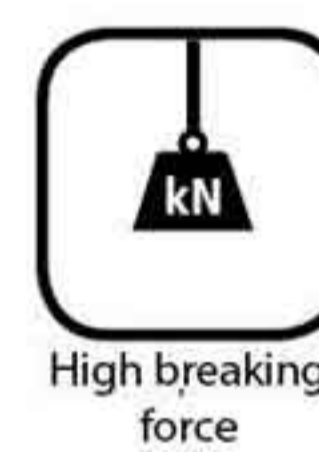
Swaged



Swivel



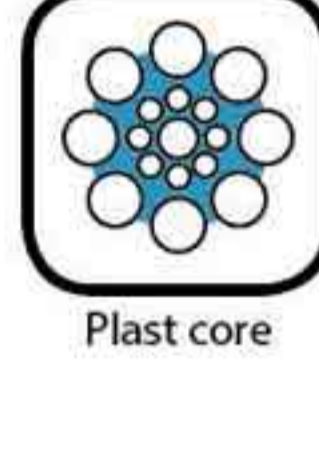
NR MAXIPACT + PPI
Cablul de ridicat pentru macarale navale (detalii p.8)



High breaking force



Swivel



Plast core



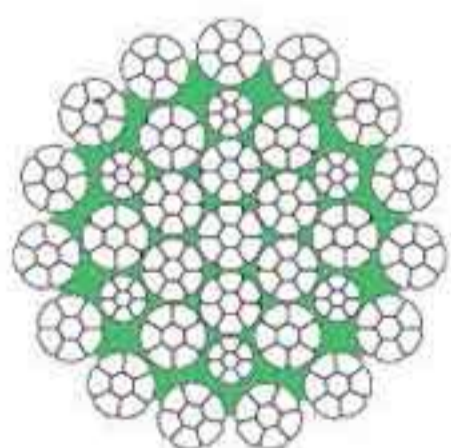
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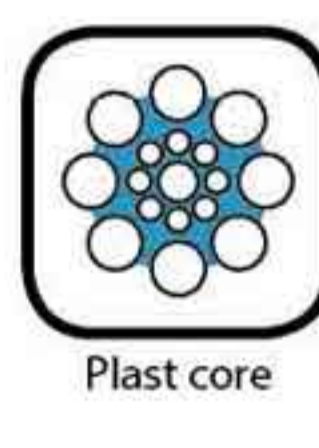
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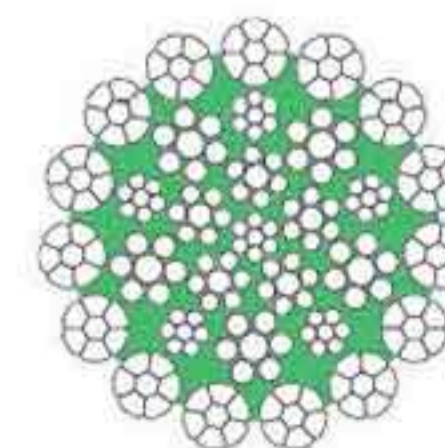
NR 15 MAXILIFT + PPI
For all the most severe hoist application, insive us, corrosive environment. Traditional applications like mobile cranes, tower cranes, crawler crane, offshore cranes, deck cranes, cargo cranes, harbor cranes.



Plast core



Swivel



TOWERLIFT 15 + PPI
The towerlift 15 can be used for all cranes and hoisting systems where non-rotating properties are required. Tower cranes, mobile cranes, crawler cranes, offshore cranes, cargo cranes.



Compacted



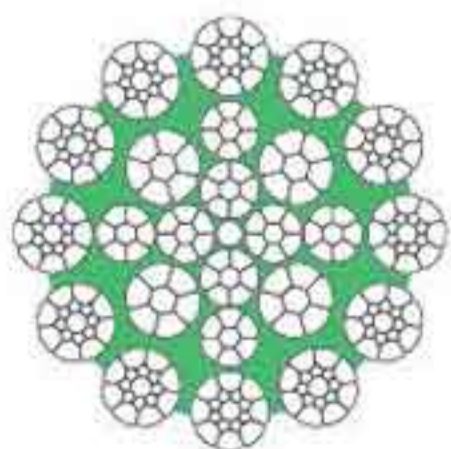
Swivel



Compacted



Plast core



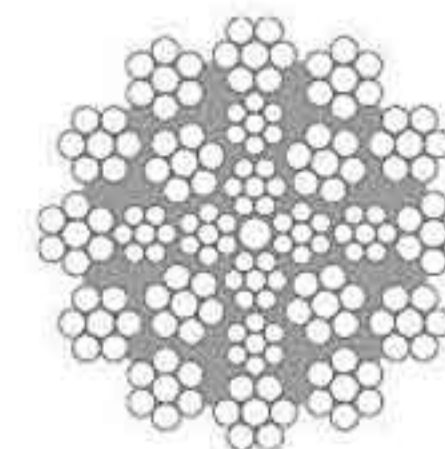
LT 24 K + PPI
Recommended for intensive use and severe hoist application where rotation resistance property is required like tower cranes. For lifting applicatins whit not less than 2 falls.



Compacted



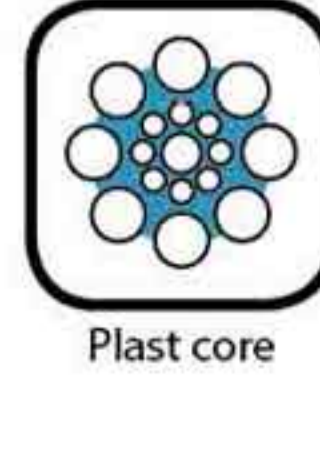
Swivel



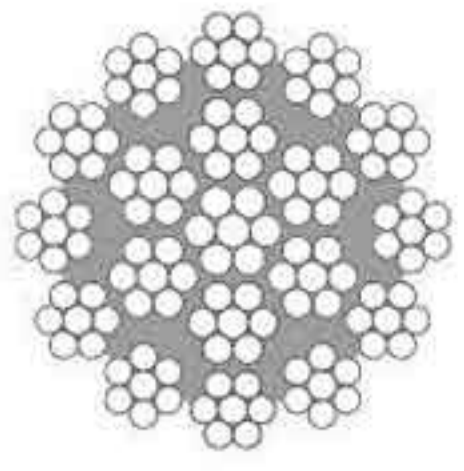
LT 24 C
All lifting applications when MBL is not critical, when rotation resistant properties only are required. For lifting applications whit not less 2 falls.



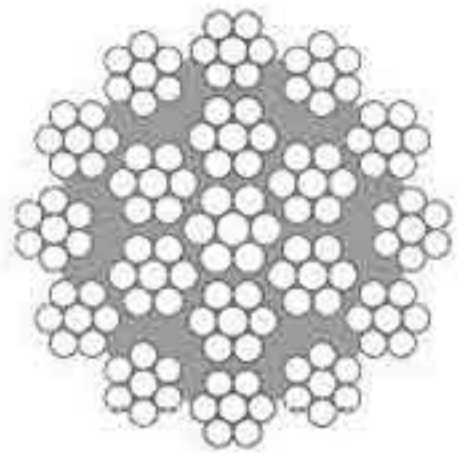
Swivel



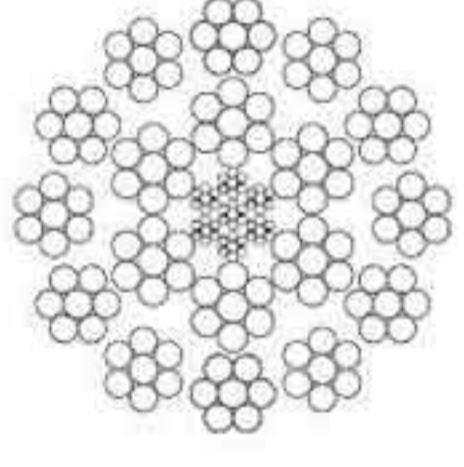
Plast core



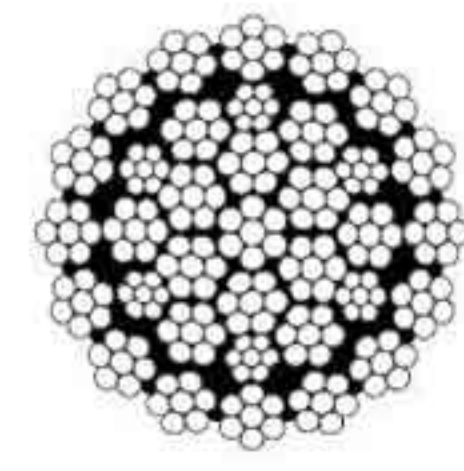
LT 18
Hoist rope. Can be used for all cranes



18x7 + IWRC (steel core)
Hoist rope for building and industrial cranes (cranes, travelling cranes, industrial overhead cranes) with medium lifting height



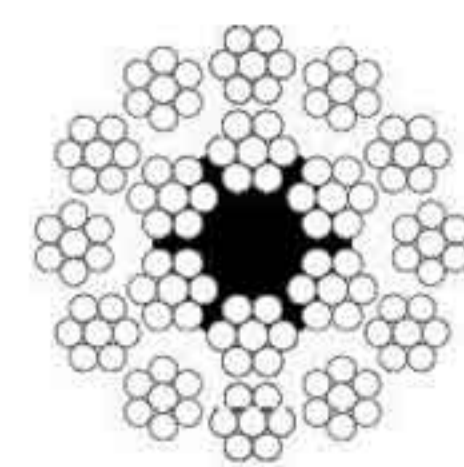
18x19S + IWRC (steel core)
Hoist rope for tower cranes and special travelling cranes with large lifting heights.



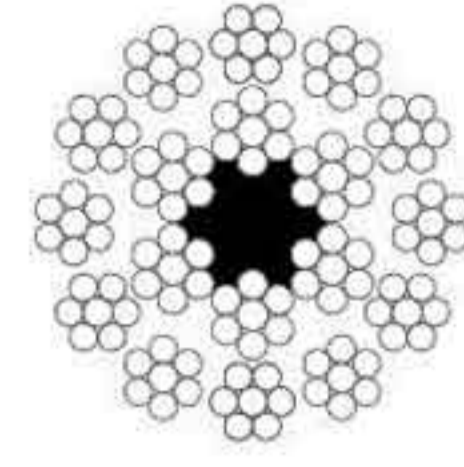
35Wx7
Rope used for industrial lifting equipment, harbour cranes, overhead cranes, container cranes and ship cranes.



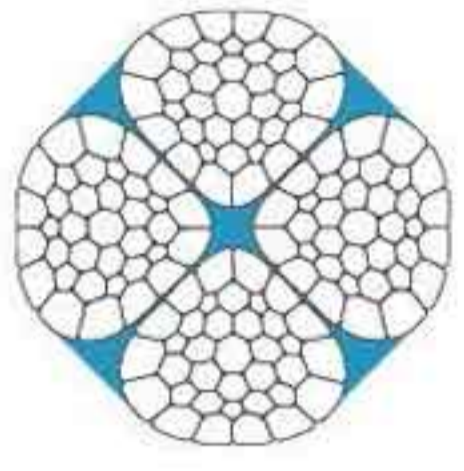
Bending resistance



18x7 + FC (fiber core)
Hoist rope for buildings and industrial cranes (cranes, travelling cranes, industrial overhead cranes) with medium lifting height



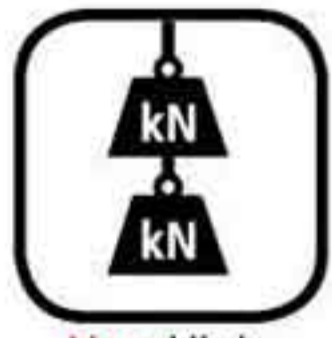
18x19S + FC (fiber core)
Hoist rope for tower cranes and special travelling cranes with large lifting heights.



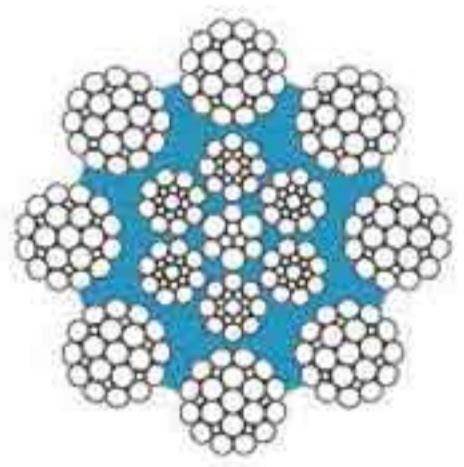
CASAR QUADROLIFT
Has a high breaking load and is very stable under forcible twist. Semi-rotation resistant hoist rope for deck crane and electrical hoist.



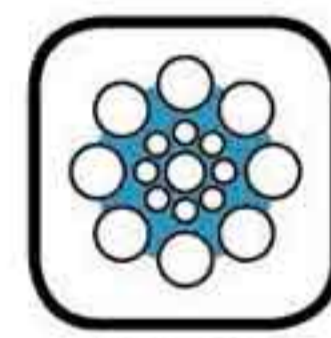
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Very High breaking force



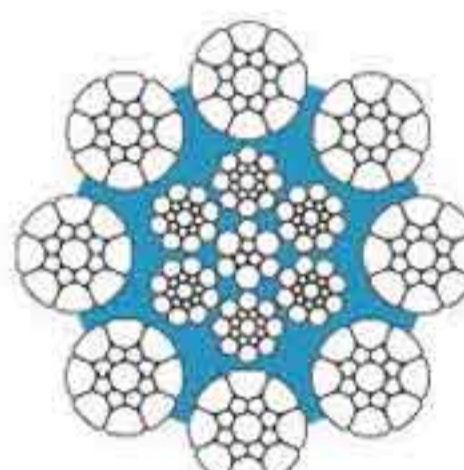
CASAR STRATOPLAST
Very flexible filler construction. Rope for a huge number of different applications.



Plast core



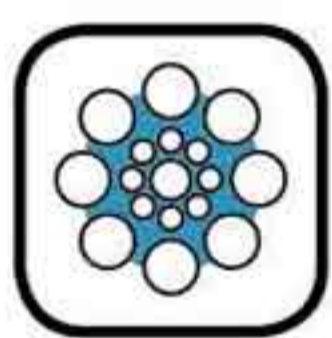
Bending resistance



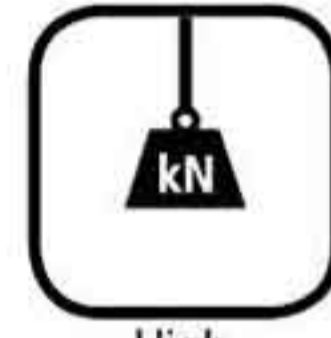
CASAR DUROPLAST
Various kinds of different applications whenever a high abrasion resistance is required where rotation resistant ropes are not required.



Compacted



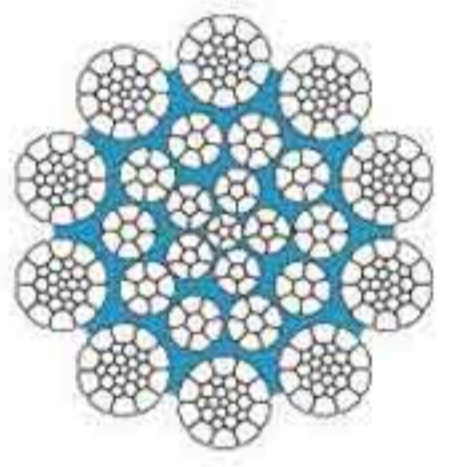
Plast core



High breaking force



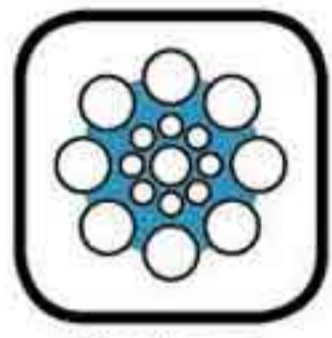
Abrasion resistance



CASAR SUPERPLAST10 MIX Very high bending fatigue performance a high minimum breaking load. Mainly overhead and industrial cranes where rotation resistant ropes are not required.



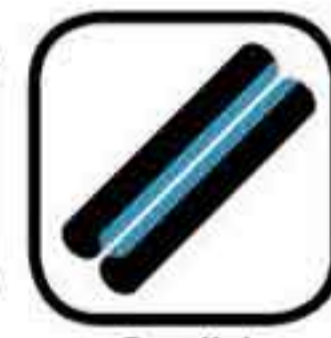
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Plast core



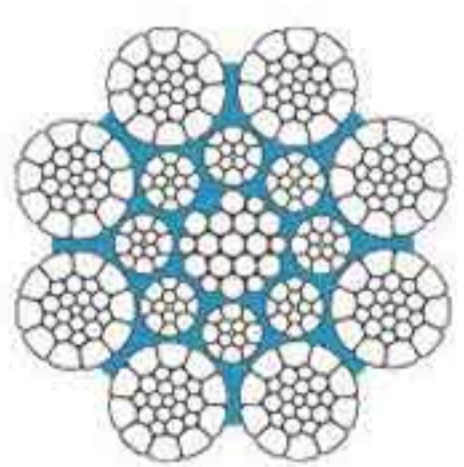
Bending resistance



Parallel construction



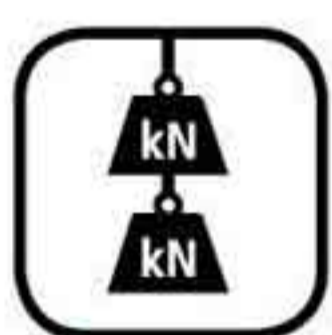
High breaking force



CASAR PARAPLAST
Very fatigue resistant and very high minimum breaking load. Hoist rope for electrical hoists and lifting devices with multiple part reeving.



Bending resistance



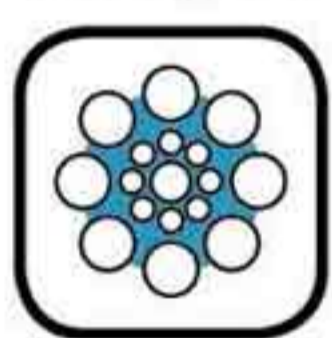
Very high breaking force



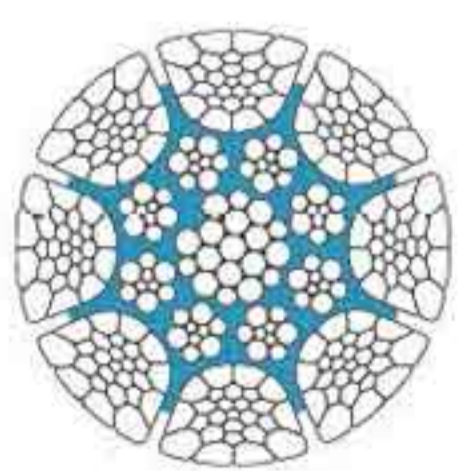
Parallel construction



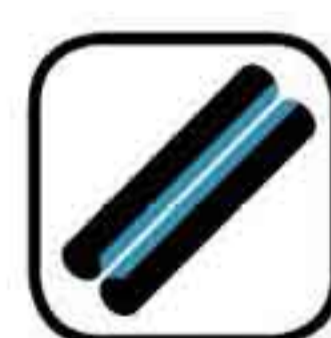
Compacted



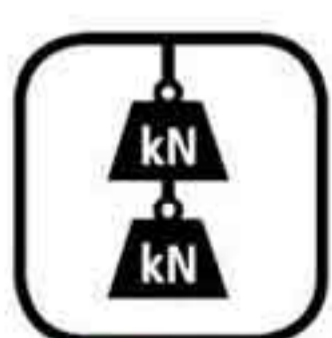
Plast core



CASAR PARAFIT
Boom hoist rope for all kind of crawler and mobile cranes especially suited for multi-layer spooling.



Parallel construction



Very high breaking force



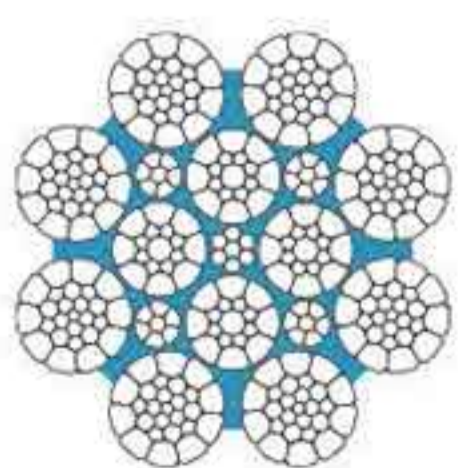
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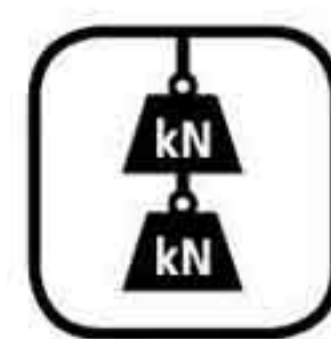
Plast core



Swaged



CASAR TURBOLIFT
Flexible construction with a high breaking load. Pendant ropes for tower cranes, mobile cranes, grabs, suspended structures, when high breaking load are required.



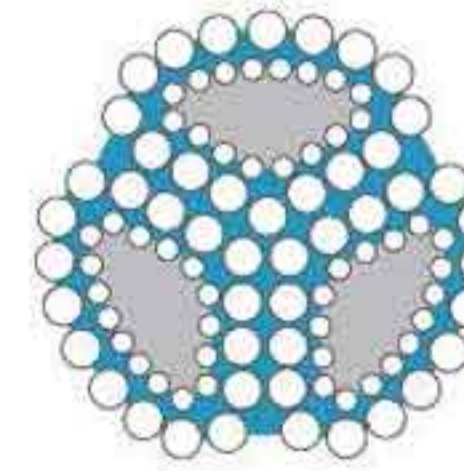
Very high breaking force



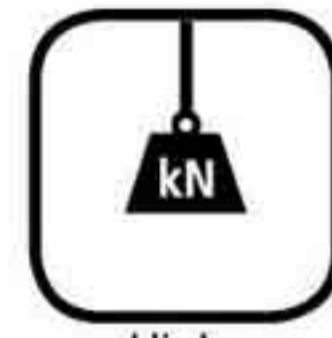
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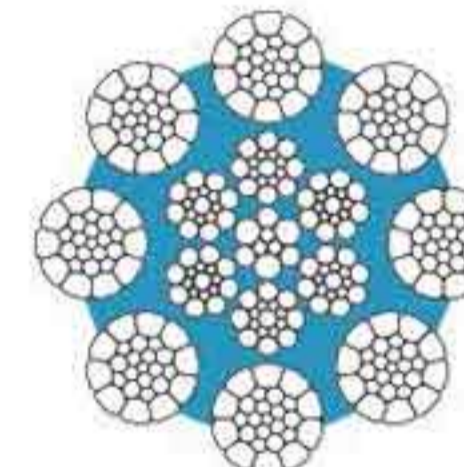
Parallel construction



CASAR RAMMBOLIFT
A semi-rotation 3-strand rope with a fiber core in every strand and a very round surface.



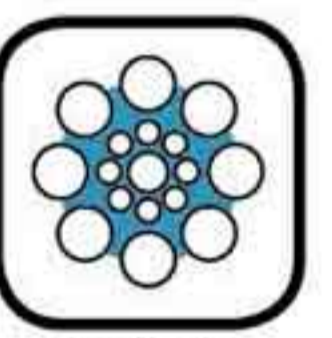
High breaking force



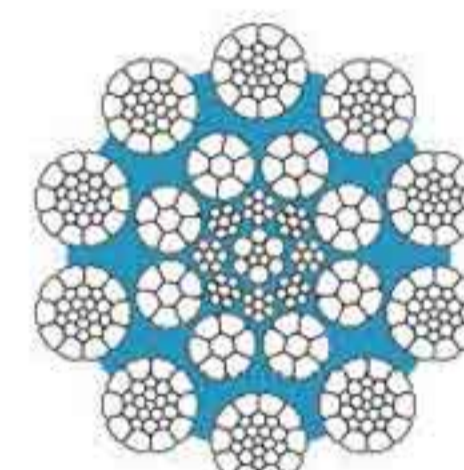
CASAR TURBOPLAST
High breaking load and good resistance against crushing. Hoist rope in multiple part reeving for smaller liftings and for twin hoist systems for greater lifting heights.



Compacted



Plast core



CASAR SUPERPLAST8
Very high breaking load and good resistance against drum crushing. Hoisting rope in multiple part reeving for smaller liftings and for twin hoist systems for greater lifting heights.



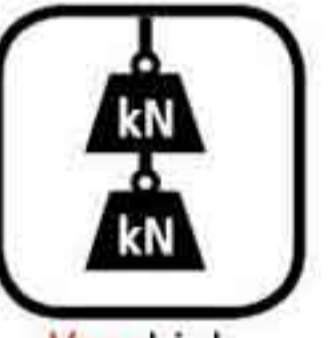
Compacted



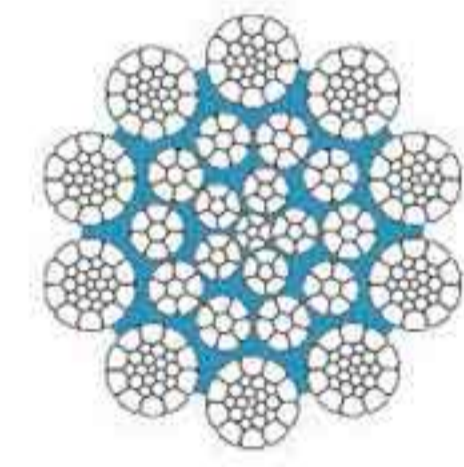
Plast core



Abrasion resistant



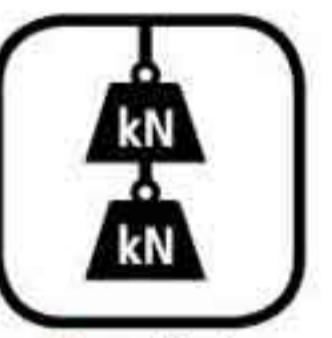
Very high breaking force



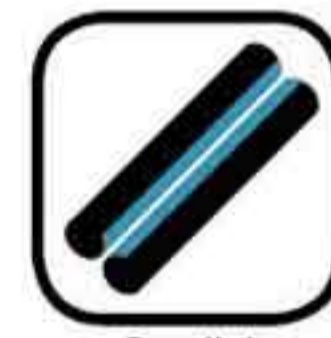
CASAR SUPERPLAST10
High bending fatigue performance and very high minimum breaking load. Mainly overhead and industrial crane when rotation resistant ropes are not required.



Bending resistance



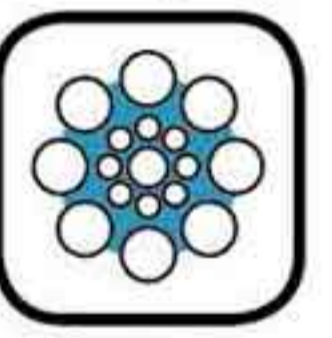
Very high breaking force



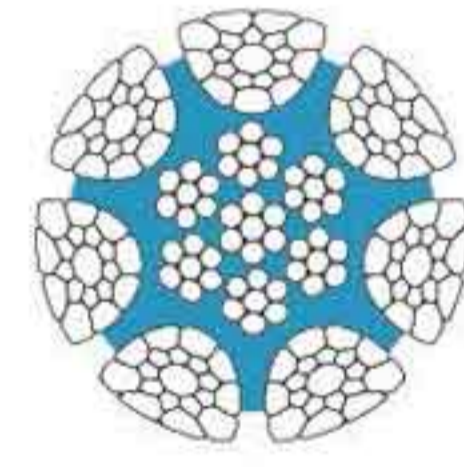
Parallel construction



Compacted



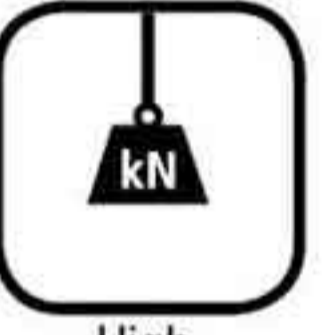
Plast core



CASAR ULTRAFIT
High abrasion resistance. Especially suitable for multi-layer spooling. Boom hoist rope for mobile cranes and grabs, hoist ropes for application where rotation resistant ropes are not required.



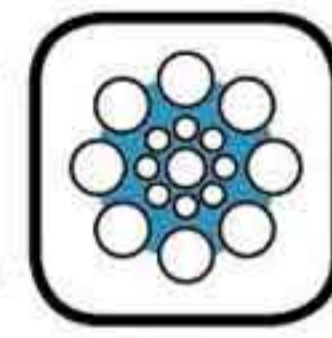
Abrasion resistant



High breaking force



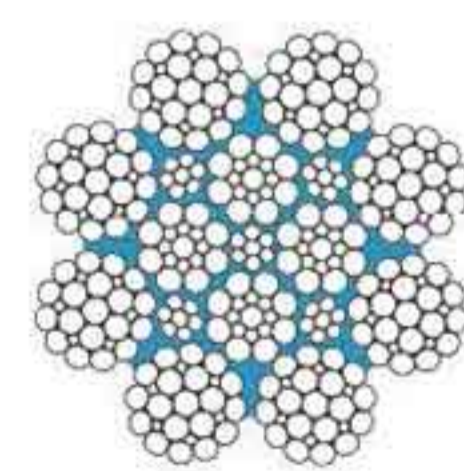
Compacted



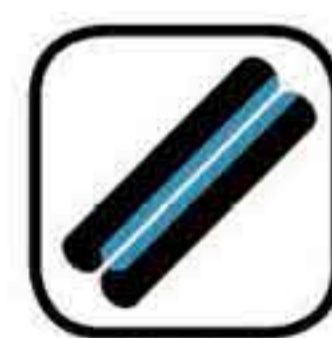
Plast core



Swaged



CASAR STRATOLIFT
Very flexible Filler construction. Pendant rope for tower cranes, mobile cranes, grabs.



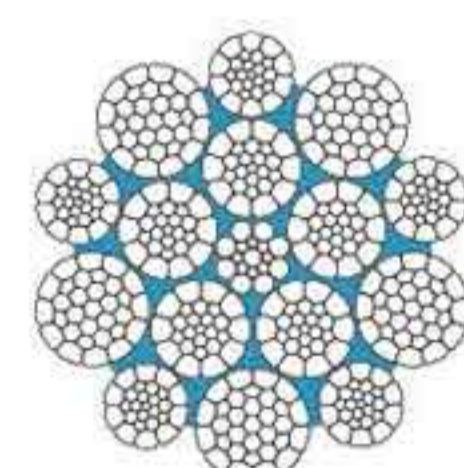
Parallel construction



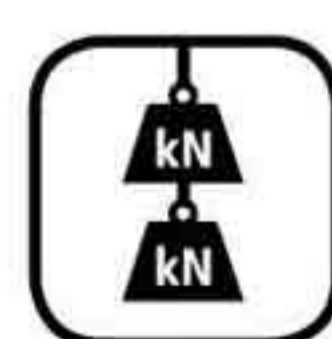
Bending resistance



High breaking force



CASAR SUPERLIFT
Very flexible construction with an extremely high breaking load. Pendant ropes for tower cranes, mobile cranes, grabs, suspended structures, when highest breaking loads are required.



Very high breaking force



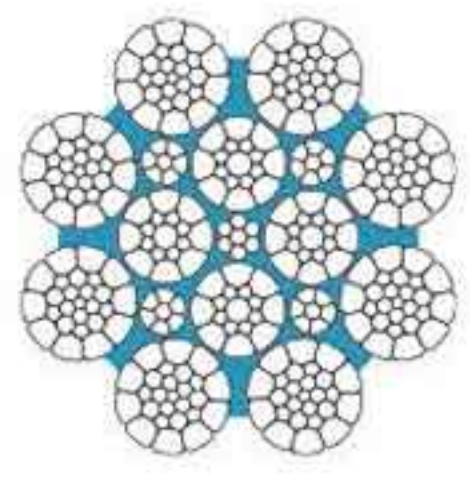
Parallel construction



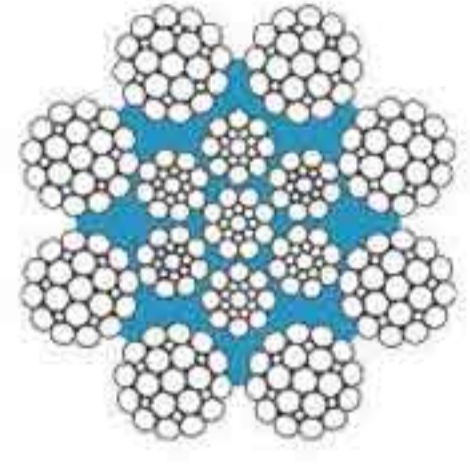
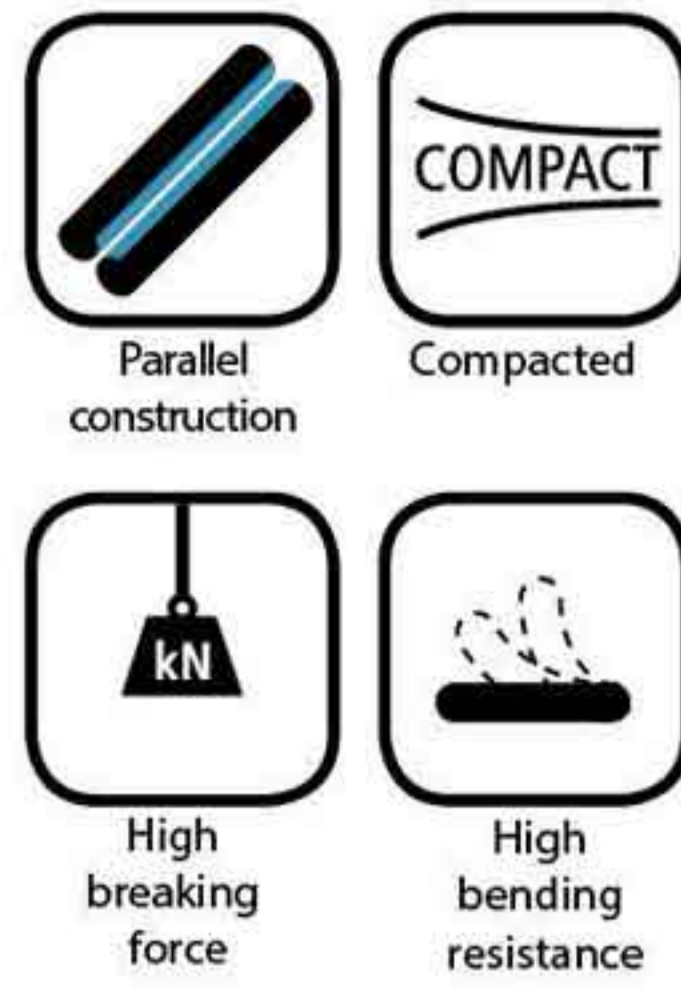
Bending resistance



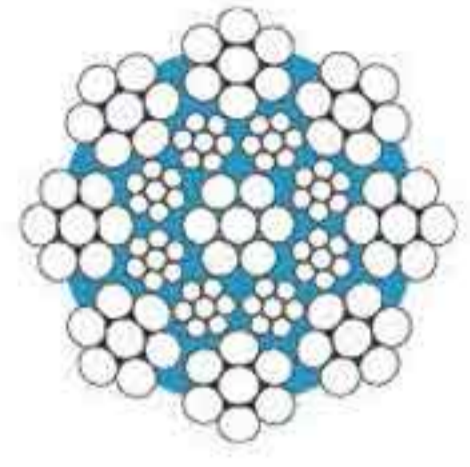
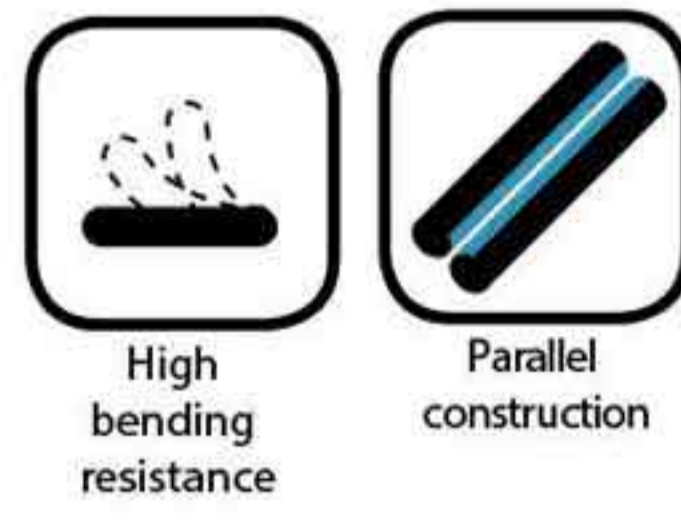
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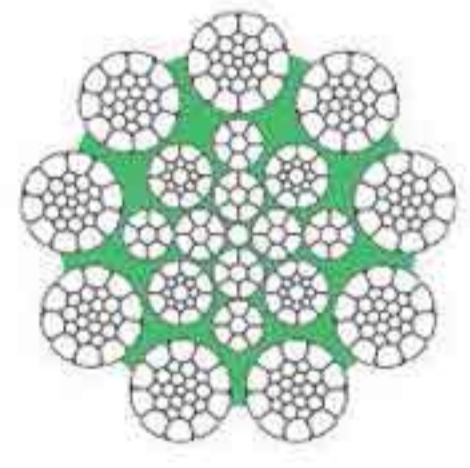
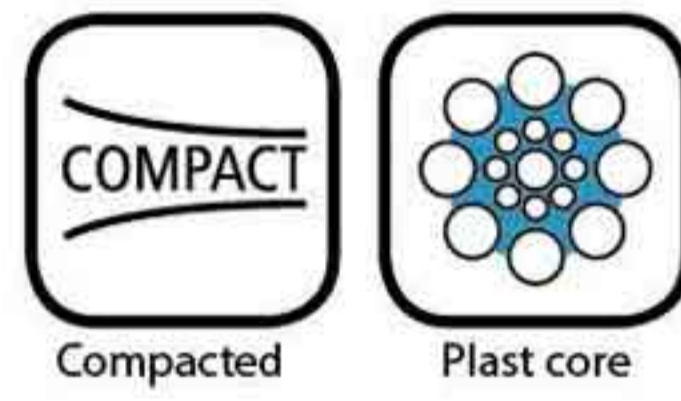
CASAR ALPHALIFT
Hoist rope for electrical hoist and other lifting device



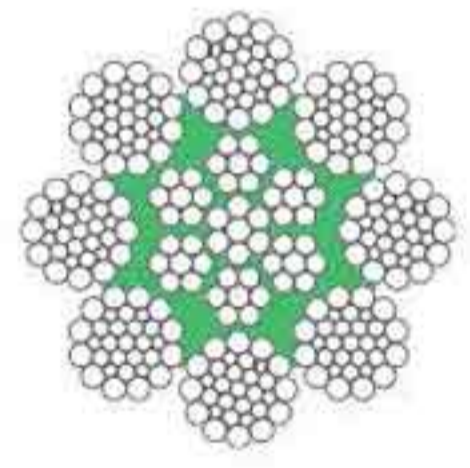
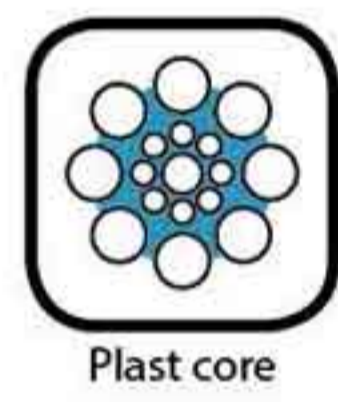
CASAR TECHNOLIFT
Hoist rope for overhead cranes, preferably ladle cranes with great rope lengths working in high temperature areas



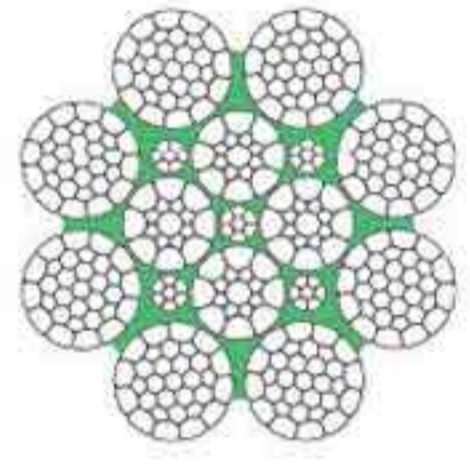
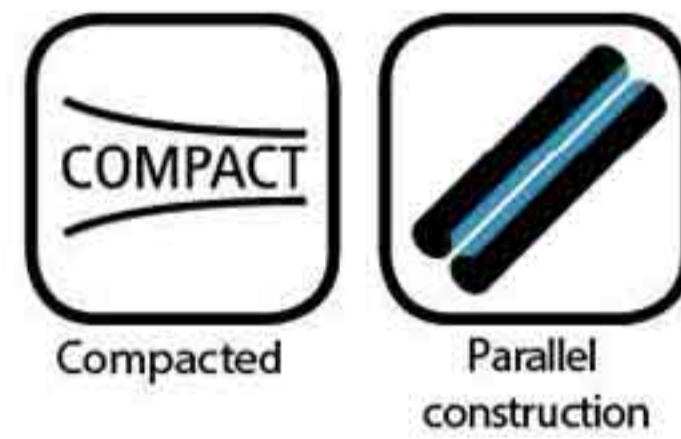
CASAR UNILIFT
Traction and haulback rope for scrapers and construction hoist, tag line and guide line for clam shells trolley rope for horizontal booms.



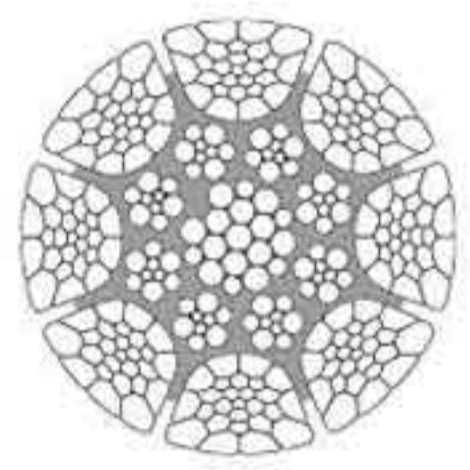
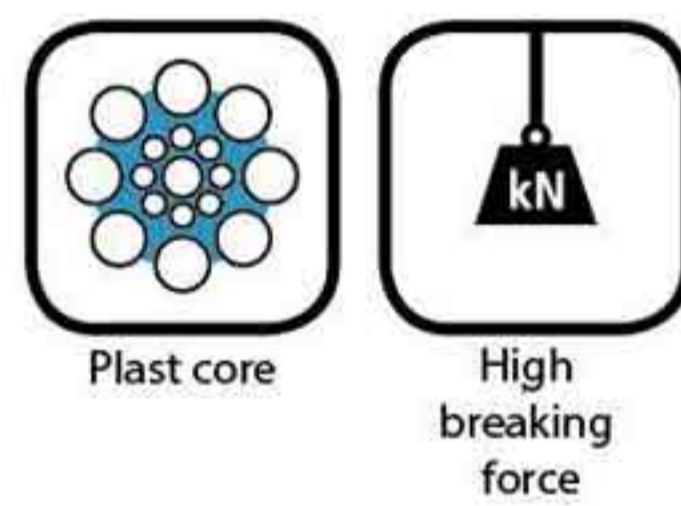
HD 9 K + PPI
Boom hoist for deck cranes, luffing for mobile and crawler, electric hoists, trolley for container cranes



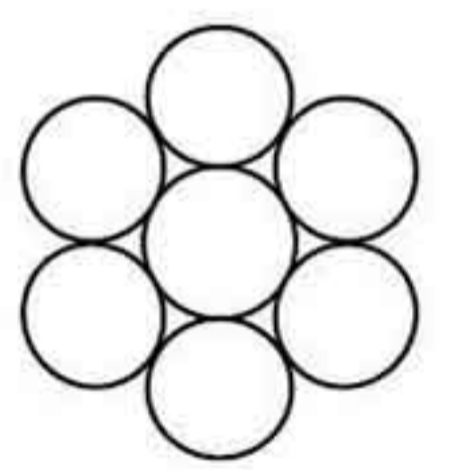
SC 8 C + PPI
Lifting rope. Can be used for all application as the HD 8 K when a very high MBL is not required.



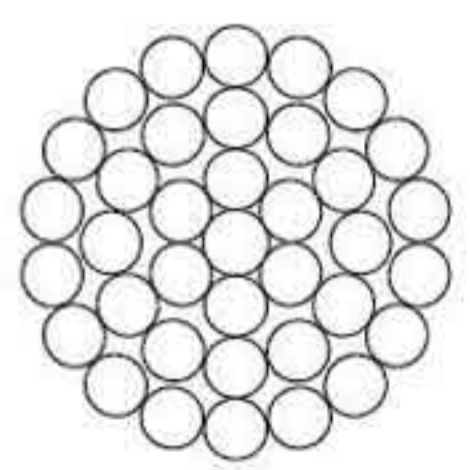
DP 8 K + PPI
For electric hoist, twin hoist systems, boom hoist and pendant rope for mobile cranes, tower cranes and all marine equipments.



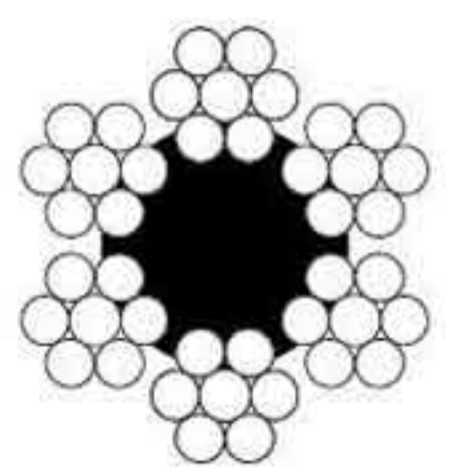
CS Forestier ciocănit
Traction swaged rope double construction used for forest industry.



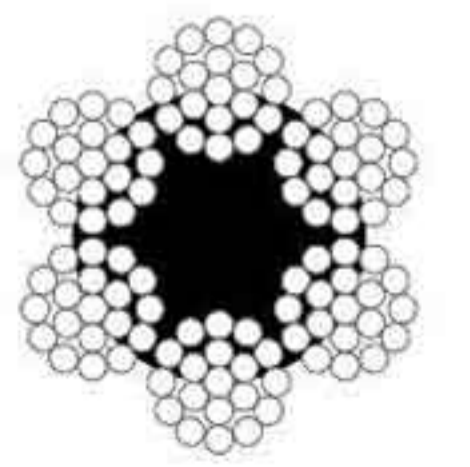
1x7
Traction rope simple construction used for anchorage.



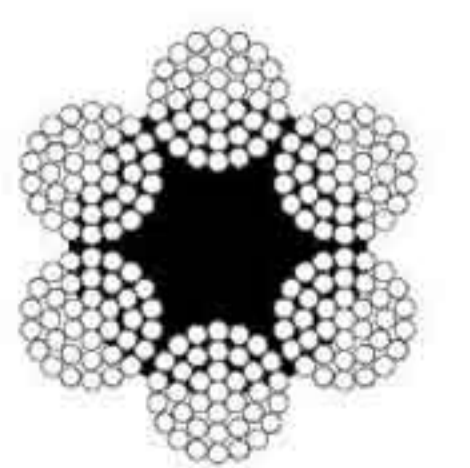
1x37
Traction rope simple construction used for anchorage and maintenance.



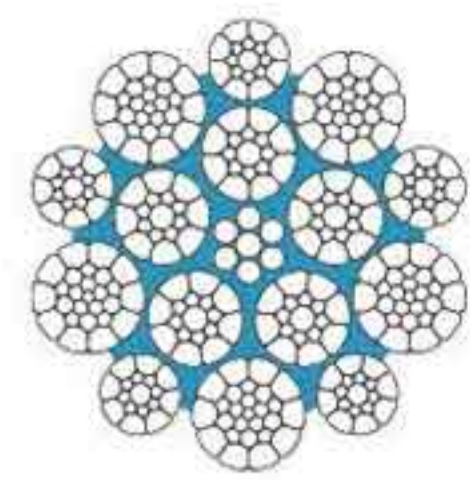
6x7 + FC (fiber core)
Traction rope double construction used for funicular, anchorage, lifting and lighting conductors.



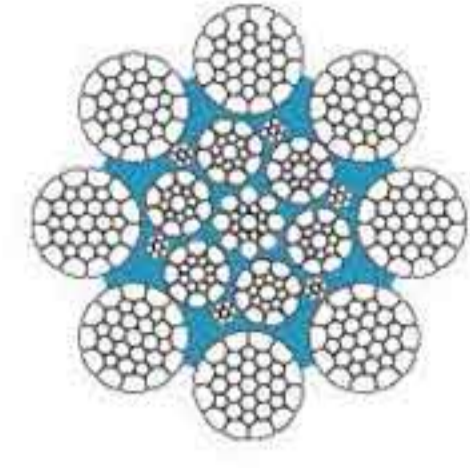
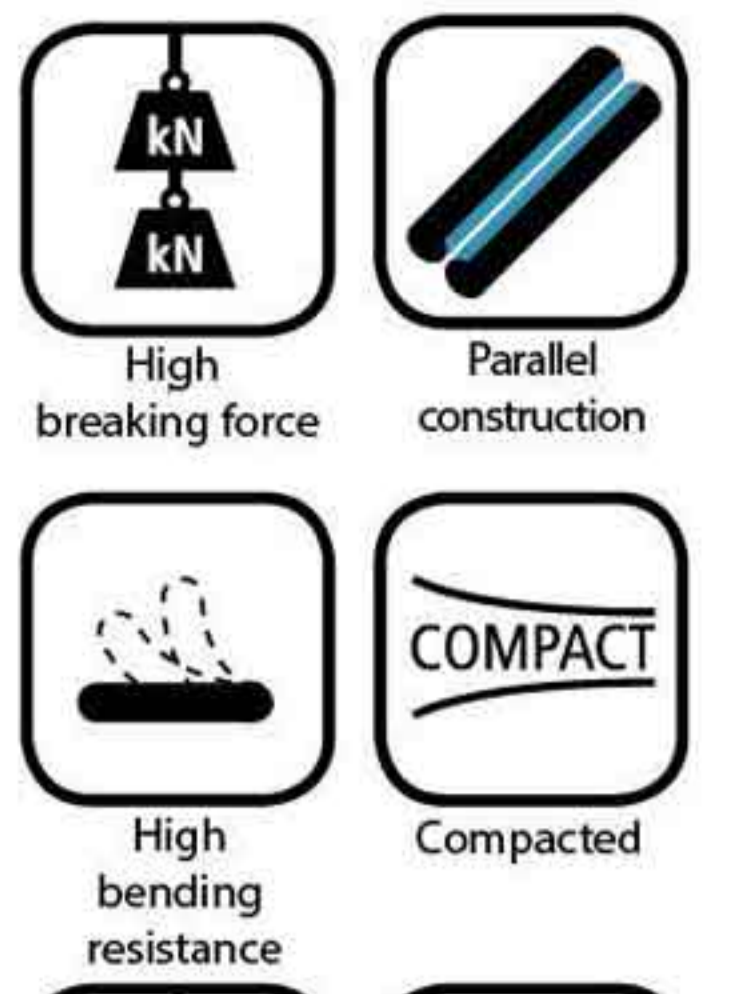
6x19 + FC (fiber core)
Traction rope double construction used for lifting, forest industry, elevator and off-shore industry



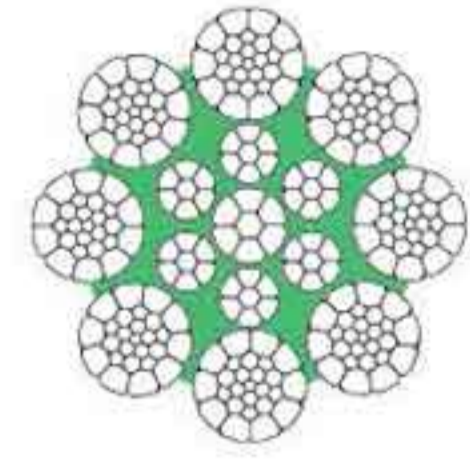
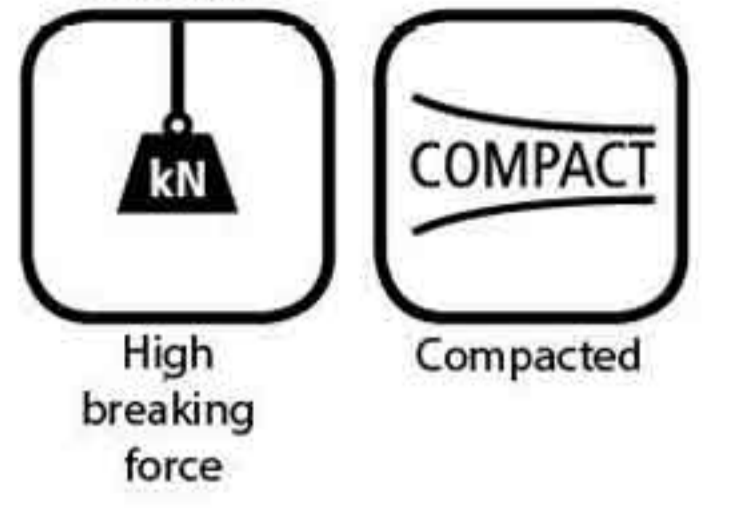
6x37 + FC (fiber core)
Traction rope double construction used for lifting, forest industry, elevator and off-shore industry



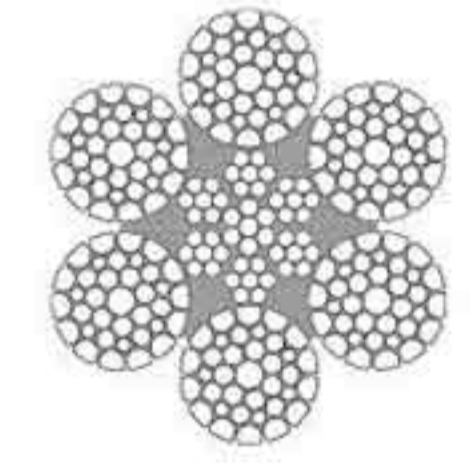
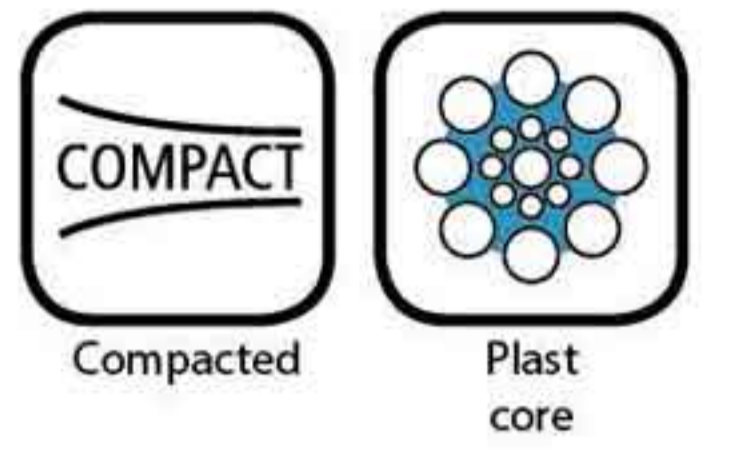
CASAR BETALIFT
Hoist rope for electrical hoist and other lifting device, where rotation resistant ropes are not required.



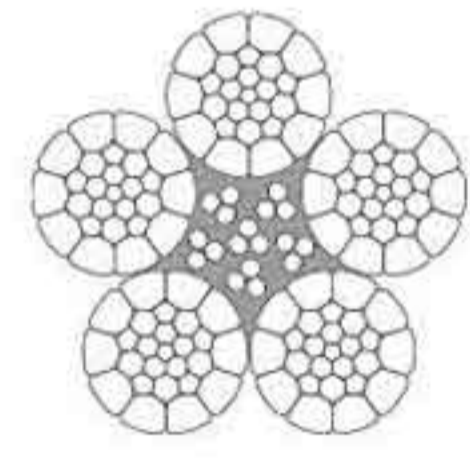
CASAR TECHNOLIFT PLUS
Hoist rope for overhead cranes Excellent service life.



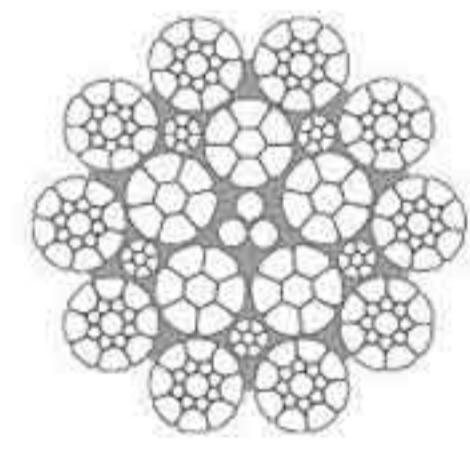
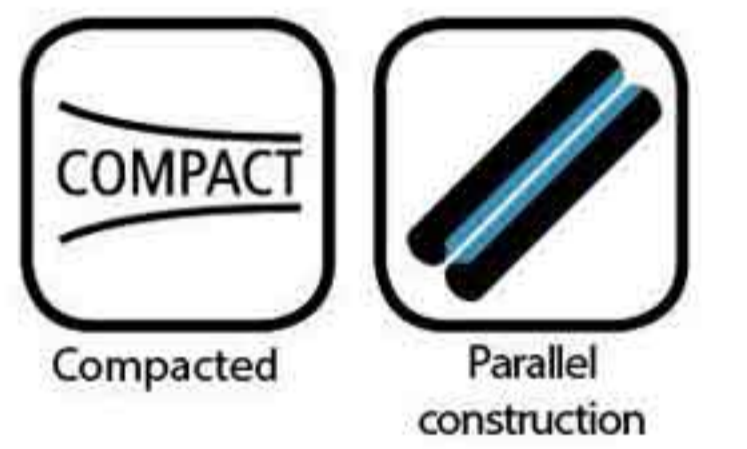
HD 8 K + PPI
Used for electric hoist, twin hoist systems, boom hoist and pendant rope for mobile cranes, tower cranes and all marine equipments.



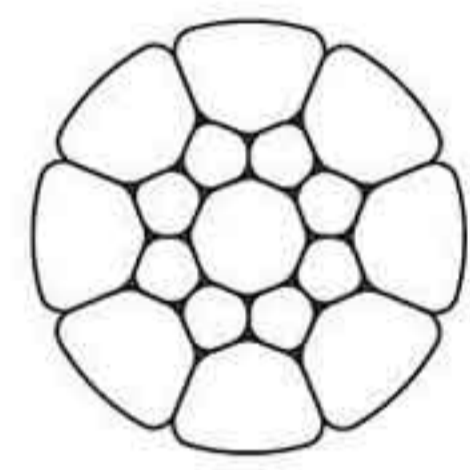
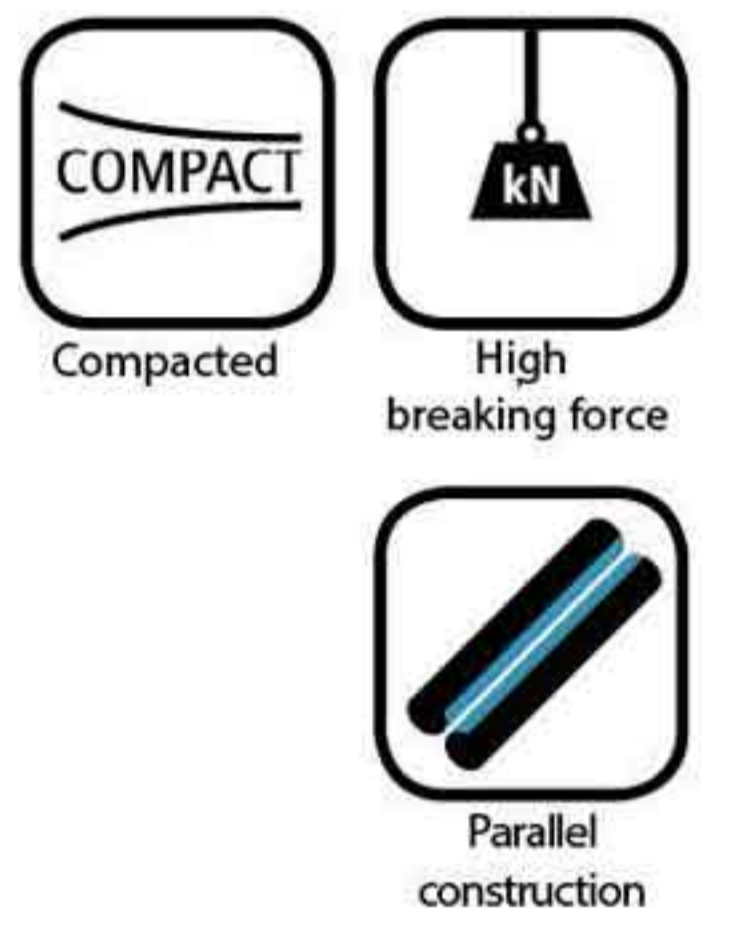
SC 6 K
Hoist rope for all hoist and pulling applications



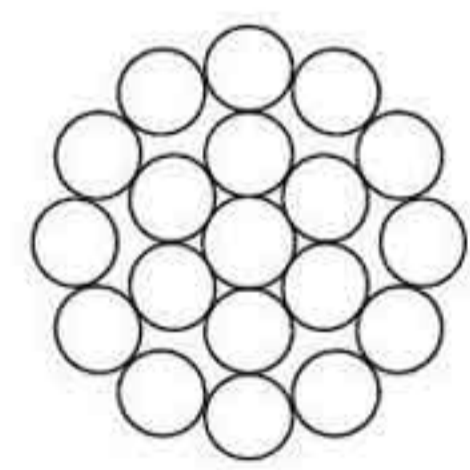
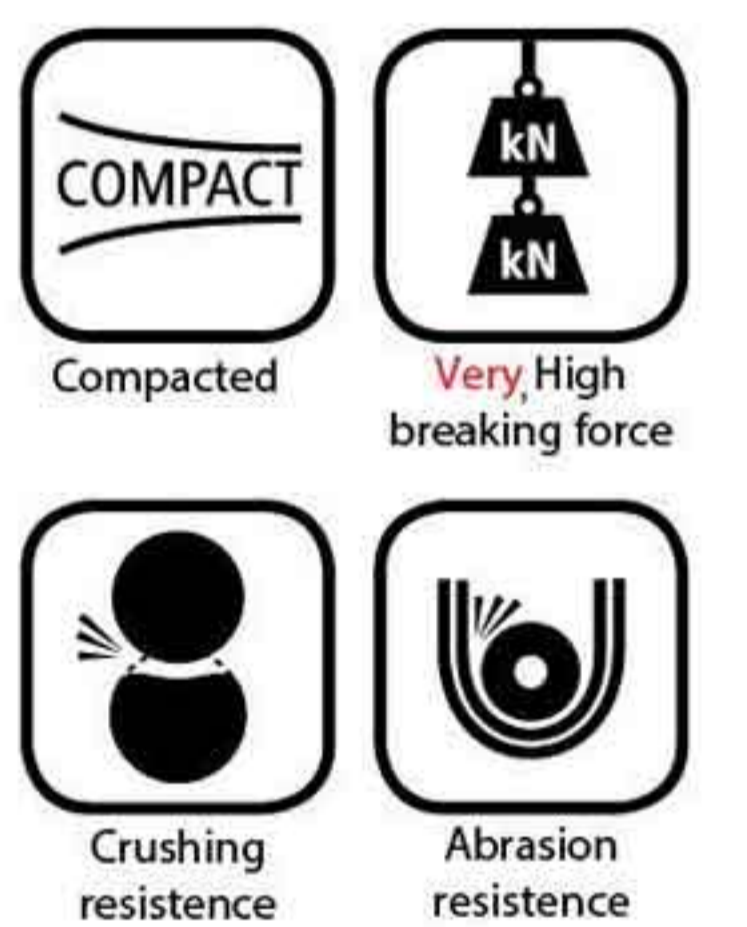
LP 5
Hoist rope used for different application



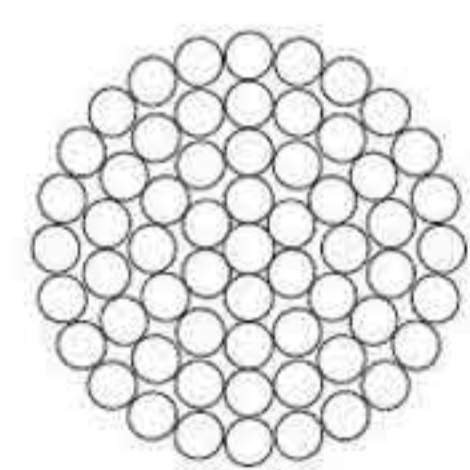
DP 10 K
Pendant rope for mobile cranes, tower cranes and all marine equipment



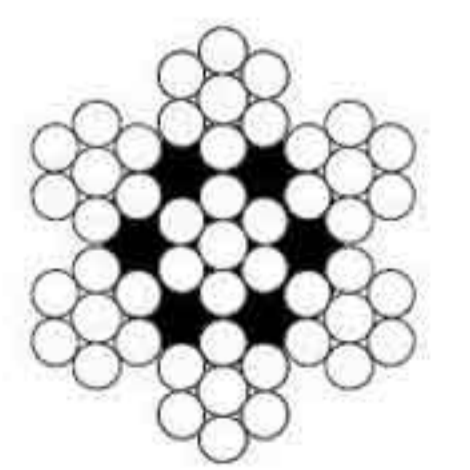
CS Forestier compactizat
Compacted rope used for forest industry



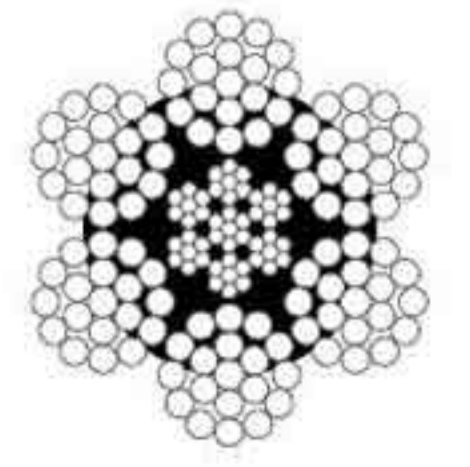
1x19
Traction rope simple construction user for ropeway, aviation, anchorage and mechanical transmission.



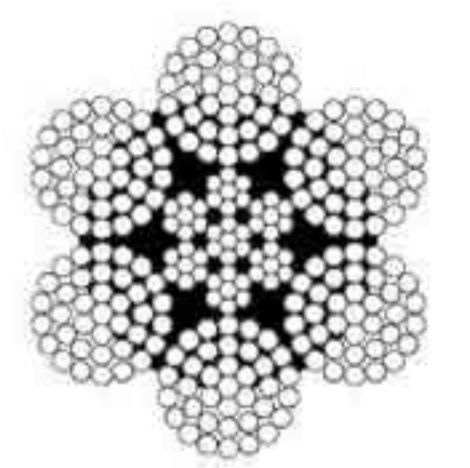
1x61
Traction rope simple construction for various kind of applications



6x7 + IWRC (steel core)
Traction rope double construction used for funicular, anchorage, lifting and lighting conductor



6x19 + IWRC (steel core)
Traction rope double construction used for lifting, forest industry, elevator and off-shore industry



6x37 + IWRC (inimă metalică)
Traction rope double construction used for lifting, forest industry, elevator and off-shore industry



Wire rope slings

Mechanical spliced eyes ropes

Nominal steel rope diameter [mm]	Mechanical spliced eyes ropes							
	Fiber core 1770 N/mm ²			Steel core 1770 N/mm ²				
	One leg slings	Two legs slings		Choker slings	One leg slings	Two legs slings		Choker slings
	[To]	[To]	[To]	[To]	[To]	[To]	[To]	[To]
8	0,70	0,95	0,70	1,10	0,75	1,05	0,750	1,20
9	0,85	1,20	0,85	1,40	0,95	1,30	0,950	1,50
10	1,05	1,50	1,05	1,70	1,15	1,60	1,15	1,85
11	1,30	1,80	1,30	2,12	1,40	2,00	1,40	2,25
12	1,55	2,12	1,55	2,50	1,70	2,30	1,70	2,70
13	1,80	2,50	1,80	2,90	2,00	2,80	2,00	3,15
14	2,12	3,00	2,12	3,30	2,25	3,15	2,25	3,70
16	2,70	3,85	2,70	4,35	3,00	4,20	3,00	4,80
18	3,40	4,80	3,40	5,65	3,70	5,20	3,70	6,00
20	4,35	6,00	4,35	6,90	4,60	6,50	4,60	7,35
22	5,20	7,20	5,20	8,40	5,65	7,80	5,65	9,00
24	6,30	8,80	6,30	10,00	6,70	9,40	6,70	10,60
26	7,20	10,00	7,20	11,80	7,80	11,00	7,80	12,50
28	8,40	11,80	8,40	13,50	9,00	12,50	9,00	14,50
32	11,00	15,00	11,00	18,00	11,80	16,50	11,800	19,00
36	14,00	19,00	14,00	22,50	15,00	21,00	15,00	23,50
40	17,00	23,50	17,00	28,00	18,50	26,00	18,50	30,00
44	21,00	29,00	21,00	33,50	22,50	31,50	22,50	36,00
48	25,00	35,00	25,00	40,00	26,00	37,00	26,00	42,00
52	29,00	40,00	29,00	47,00	31,50	44,00	31,50	50,00
56	33,50	47,00	33,50	54,00	36,00	50,00	36,00	58,00
60	39,00	54,00	39,00	63,00	42,00	58,00	42,00	67,00

* Safety factor 5:1

- the slings are manufactured according to SR EN 13414-1 and SR ISO 7531-96
- loops are obtain by pressing an aluminium ferrule (AIMg 2,5)
- the end eyes can be equipped whit fittings: hooks thimbles, turnbuckles, plate clamps.

UP (soft eyes without thimble)

UPR (one eye whit thimble)

UR (eyes whit thimble)

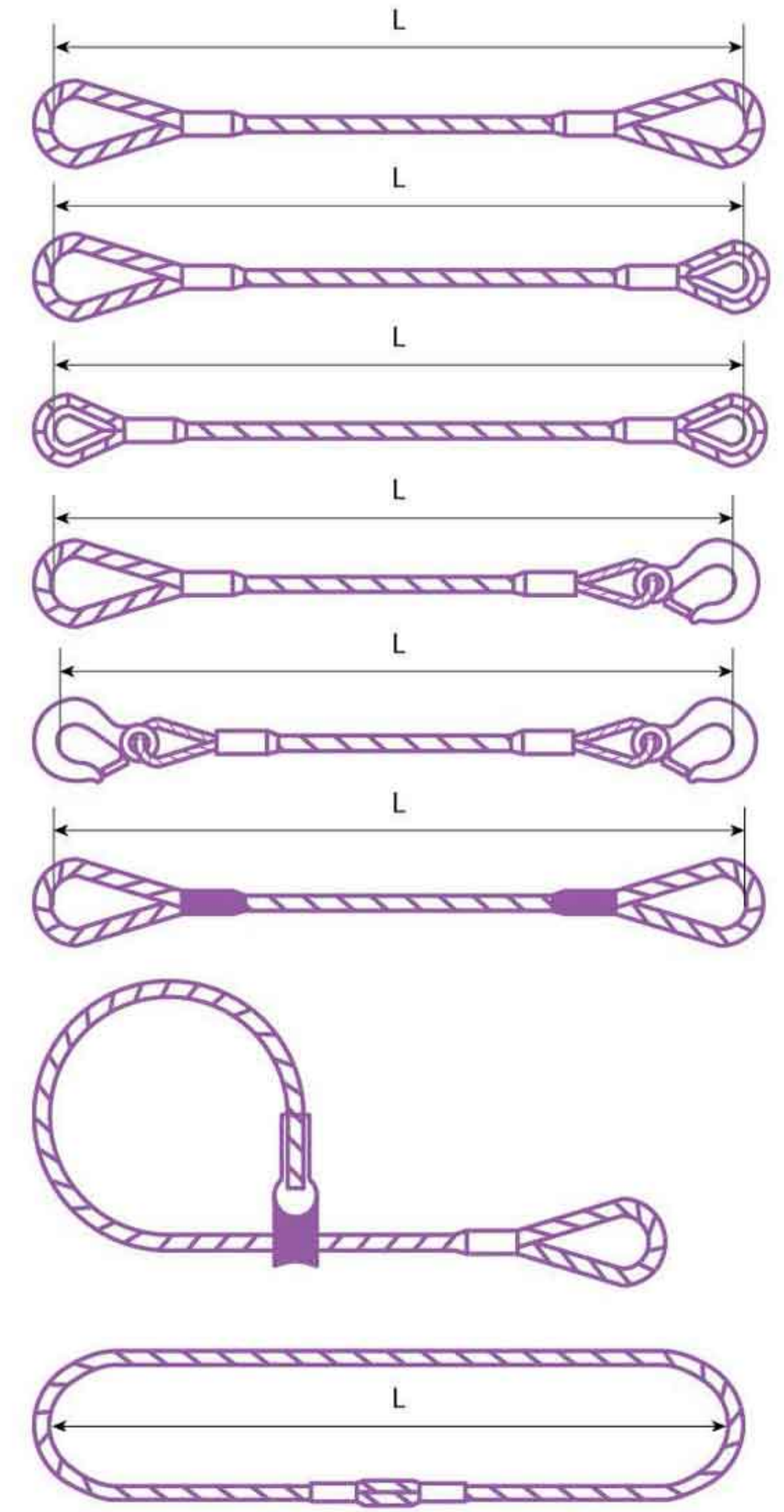
UPR-C (one eye whit thimble and hook)

UR-CC (both eyes whit thimble and hooks)

UP-FL (flamish eye)

wire rope slings whit shortening eye hook

I (endles wire rope slings)



L=Lenght:
*Lenght counts from the application point of the force

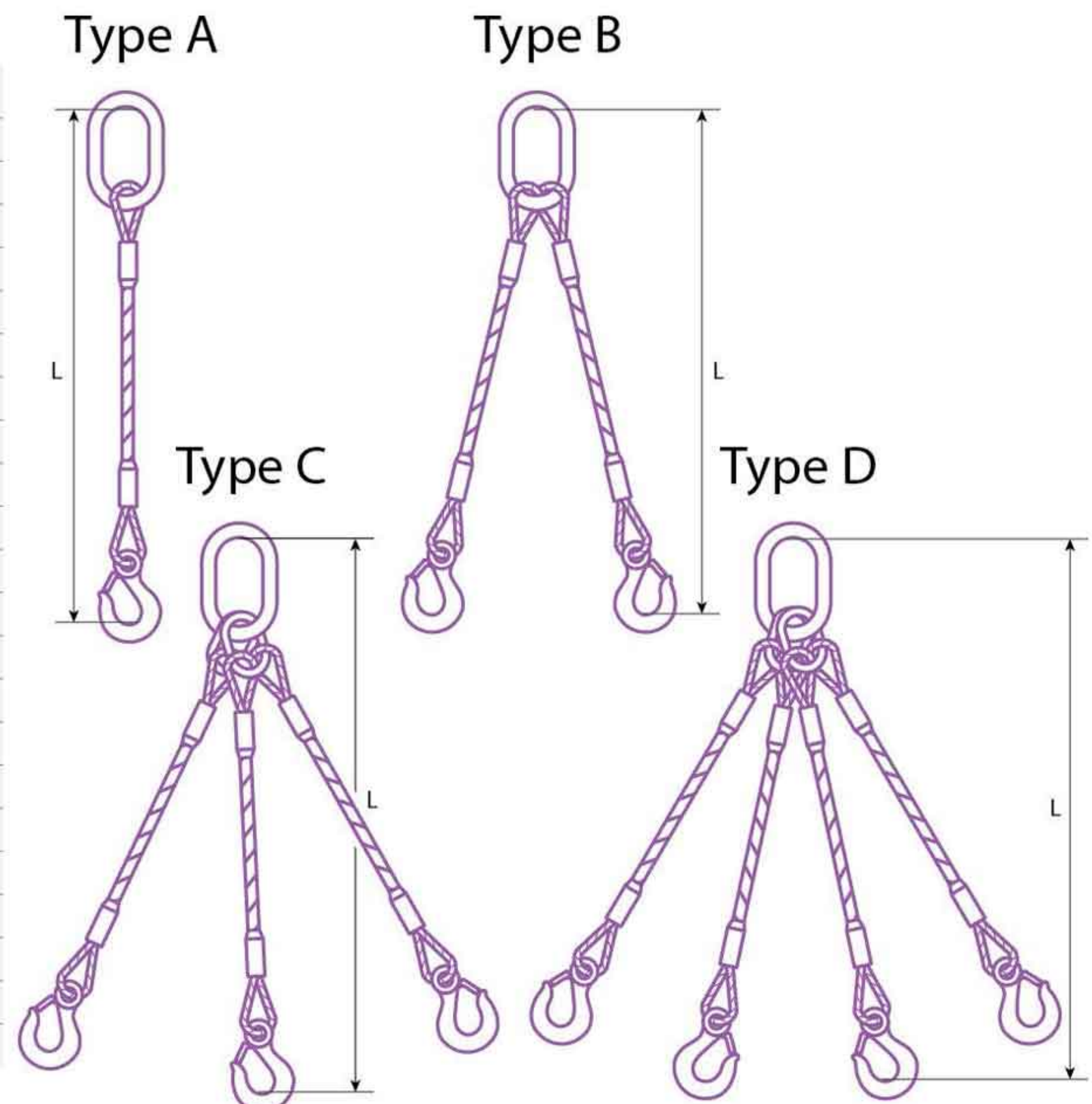
Multi leg rope slings

Nominal steel rope diameter [mm]	Multi leg rope slings, mechanical spliced eyes ropes									
	Fiber core 1770 N/mm ²			Fiber core 1770 N/mm ²						
	Type A one leg sling	Type B 2 leg slings		Type C / Type D 3 or 4 leg slings		Type A one leg sling	Type B 2 leg slings		Type C / Type D 3 or 4 leg slings	
	[To]	[To]	[To]	[To]	[To]	[To]	[To]	[To]	[To]	[To]
8	0,70	0,95	0,70	1,50	1,10	0,75	1,05	0,750	1,55	1,10
9	0,85	1,20	0,85	1,80	1,40	0,95	1,30	0,950	2,00	1,40
10	1,05	1,50	1,05	2,25	1,70	1,15	1,60	1,15	2,40	1,70
11	1,30	1,80	1,30	2,70	2,12	1,40	2,00	1,40	3,00	2,12
12	1,55	2,12	1,55	3,30	2,50	1,70	2,30	1,70	3,55	2,50
13	1,80	2,50	1,80	3,85	2,90	2,00	2,80	2,00	4,15	3,00
14	2,12	3,00	2,12	4,35	3,30	2,25	3,15	2,25	4,80	3,40
16	2,70	3,85	2,70	5,65	4,35	3,00	4,20	3,00	6,30	4,50
18	3,40	4,80	3,40	7,20	5,65	3,70	5,20	3,70	7,80	5,65
20	4,35	6,00	4,35	9,00	6,90	4,60	6,50	4,60	9,80	6,90
22	5,20	7,20	5,20	11,00	8,40	5,65	7,80	5,65	11,80	8,40
24	6,30	8,80	6,30	13,50	10,00	6,70	9,40	6,70	14,00	10,00
26	7,20	10,00	7,20	15,00	11,80	7,80	11,00	7,80	16,50	11,50
28	8,40	11,80	8,40	18,00	13,50	9,00	12,50	9,00	19,00	13,50
32	11,00	15,00	11,00	23,50	18,00	11,80	16,50	11,800	25,00	17,50
36	14,00	19,00	14,00	29,00	22,50	15,00	21,00	15,00	31,50	22,50
40	17,00	23,50	17,00	36,00	28,00	18,50	26,00	18,50	39,00	28,00
44	21,00	29,00	21,00	44,00	33,50	22,50	31,50	22,50	47,00	33,50
48	25,00	35,00	25,00	52,00	40,00	26,00	37,00	26,00	55,00	40,00
52	29,00	40,00	29,00	62,00	47,00	31,50	44,00	31,50	66,00	47,00
56	33,50	47,00	33,50	71,00	54,00	36,00	50,00	36,00	76,00	54,00
60	39,00	54,00	39,00	81,00	63,00	42,00	58,00	42,00	88,00	63,00

* Safety factor: 5:1

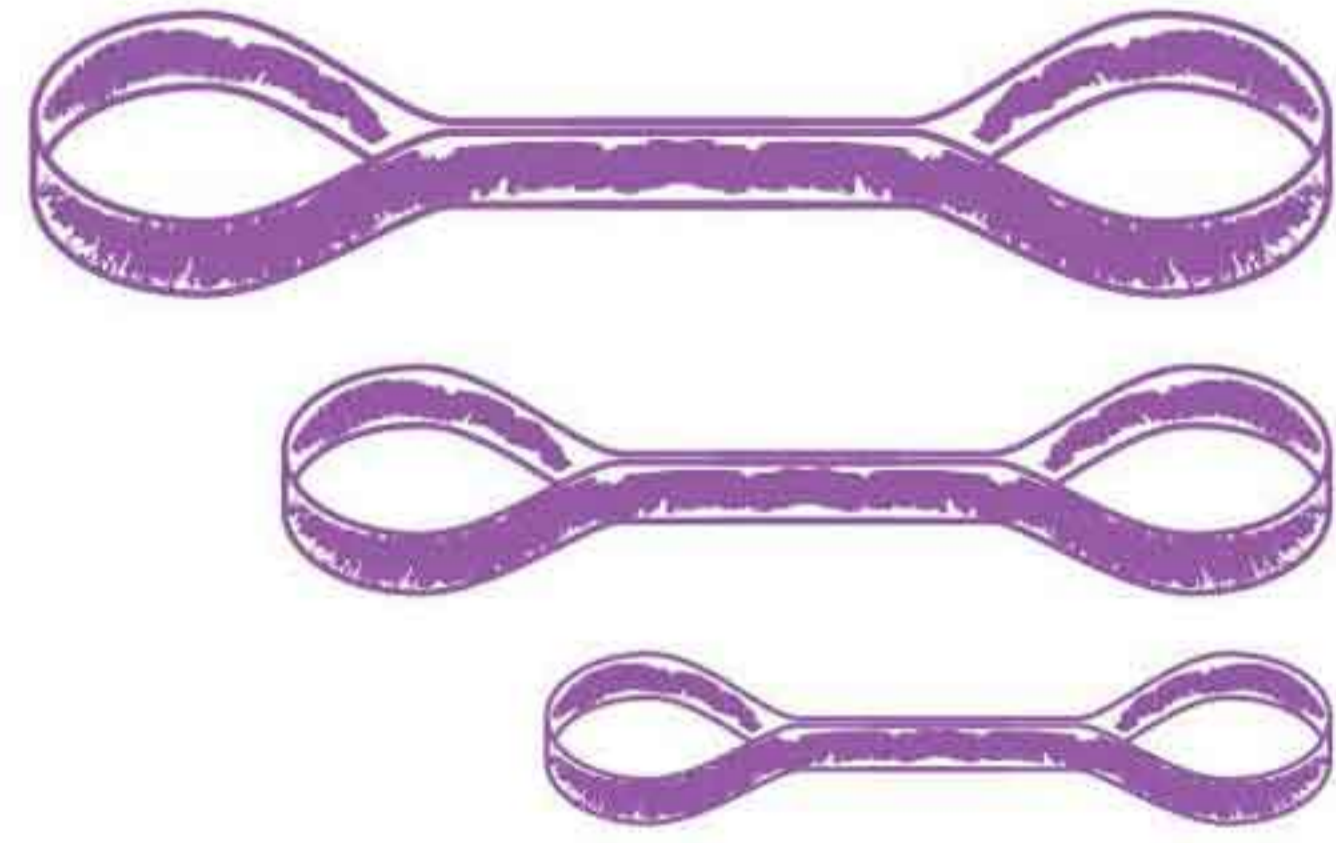
- the slings are manufactured according to: SR EN 13414-1 și SR ISO 7531-96
- the end eyes can be equipped whit fittings: thimbles, hooks, links, turnbuckles.

L=Lenght:
*Lenght counts from the application point of the force



Polyester slings

Polyester flat webbing slings



- low weight, easy to handle them
- protects the contact surface
- eliminates the risk of accidents
- can be used in acid or basic environment

Flat webbing slings

Width [mm]	Color code	WLL [kg]				
		Single	Double	U	45°	60°
30	Blue	1.000	800	2.000	1.400	1.000
60	Green	2.000	1.600	4.000	2.800	2.000
90	Yellow	3.000	2.400	6.000	4.200	3.000
120	Grey	4.000	3.200	8.000	5.600	4.000
150	Red	5.000	4.000	10.000	7.000	5.000
180	Light Green	6.000	4.800	12.000	8.400	6.000
240	Dark Blue	8.000	6.400	16.000	11.200	8.000
300	Orange	10.000	8.000	20.000	14.000	10.000
360	Light Orange	12.000	9.600	24.000	16.800	12.000
480	Dark Orange	15.000	12.800	32.000	22.400	16.000
600	Dark Orange	20.000	16.000	40.000	28.000	20.000

* Safety factor: 7:1

Polyester round slings

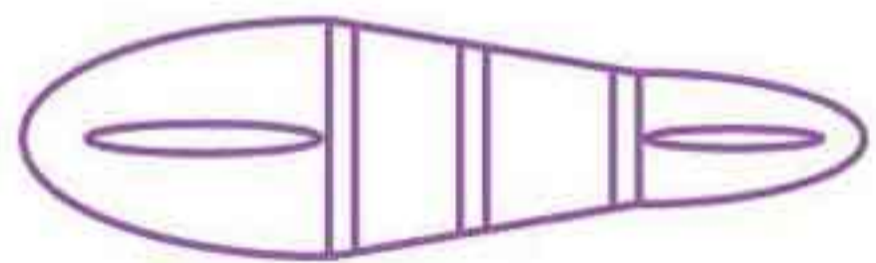


Round slings

Color code	WLL [kg]				
	Single	Double	U	45°	60°
Blue	1.000	800	2.000	1.400	1.000
Green	2.000	1.600	4.000	2.800	2.000
Yellow	3.000	2.400	6.000	4.200	3.000
Grey	4.000	3.200	8.000	5.600	4.000
Red	5.000	4.000	10.000	7.000	5.000
Light Green	6.000	4.800	12.000	8.400	6.000
Dark Blue	8.000	6.400	16.000	11.200	8.000
Orange	10.000	8.000	20.000	14.000	10.000
Light Orange	12.000	9.600	24.000	16.800	12.000
Dark Orange	15.000	12.000	30.000	21.000	15.000
Dark Orange	20.000	16.000	40.000	28.000	20.000
Dark Orange	25.000	20.000	50.000	35.000	25.000
Dark Orange	30.000	24.000	60.000	42.000	30.000
Dark Orange	40.000	32.000	80.000	56.000	40.000
Dark Orange	50.000	40.000	100.000	70.000	50.000
Dark Orange	60.000	48.000	120.000	84.000	60.000

* Safety factor: 7:1

Flat double slings



Working load [Kg]	Working load in "U" [Kg]	Width [mm]	Eye width [mm]	Number of layers
7.000	14.000	360	100	2
11.000	22.000	600	160	2
16.000	32.000	480	130	4
22.500	45.000	600	160	4

Polyester round slings

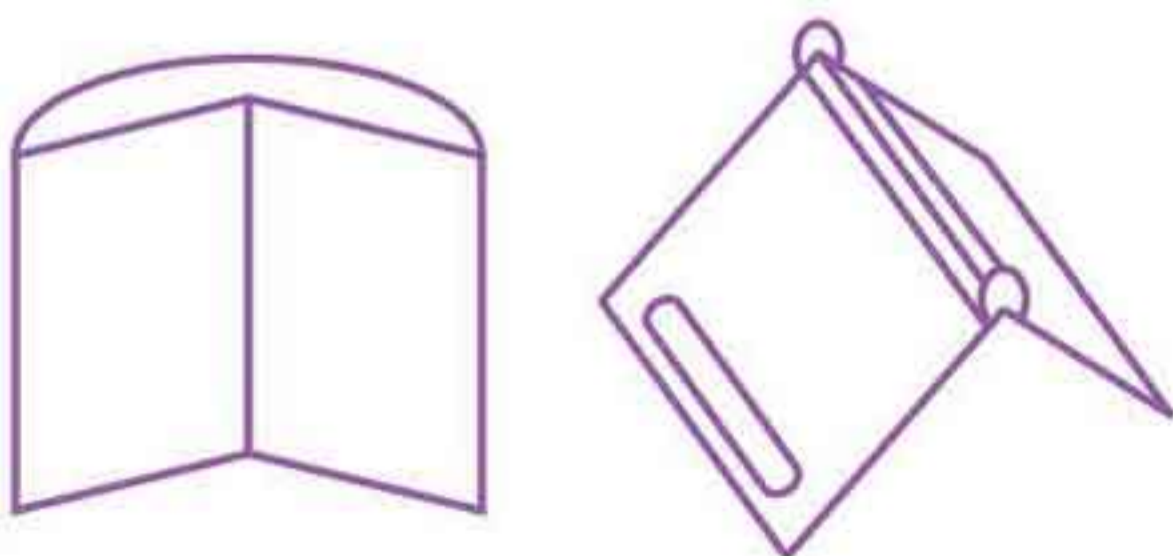


Round slings

Color code	WLL [kg]				
	Single	Double	U	45°	60°
Blue	1.000	800	2.000	1.400	1.000
Green	2.000	1.600	4.000	2.800	2.000
Yellow	3.000	2.400	6.000	4.200	3.000
Grey	4.000	3.200	8.000	5.600	4.000
Red	5.000	4.000	10.000	7.000	5.000
Light Green	6.000	4.800	12.000	8.400	6.000
Dark Blue	8.000	6.400	16.000	11.200	8.000
Orange	10.000	8.000	20.000	14.000	10.000
Light Orange	12.000	9.600	24.000	16.800	12.000
Dark Orange	15.000	12.000	30.000	21.000	15.000
Dark Orange	20.000	16.000	40.000	28.000	20.000
Dark Orange	25.000	20.000	50.000	35.000	25.000
Dark Orange	30.000	24.000	60.000	42.000	30.000
Dark Orange	40.000	32.000	80.000	56.000	40.000
Dark Orange	50.000	40.000	100.000	70.000	50.000
Dark Orange	60.000	48.000	120.000	84.000	60.000
Dark Orange	80.000	64.000	160.000	112.000	80.000
Dark Orange	100.000	80.000	200.000	140.000	100.000
Dark Orange	120.000	96.000	240.000	168.000	120.000
Dark Orange	130.000	104.000	260.000	182.000	130.000
Dark Orange	150.000	120.000	300.000	210.000	150.000

* Safety factor: 7:1

Sling protection



- various types of corners
- protection for cutting edges and wear
- polyurethane for one/two faces

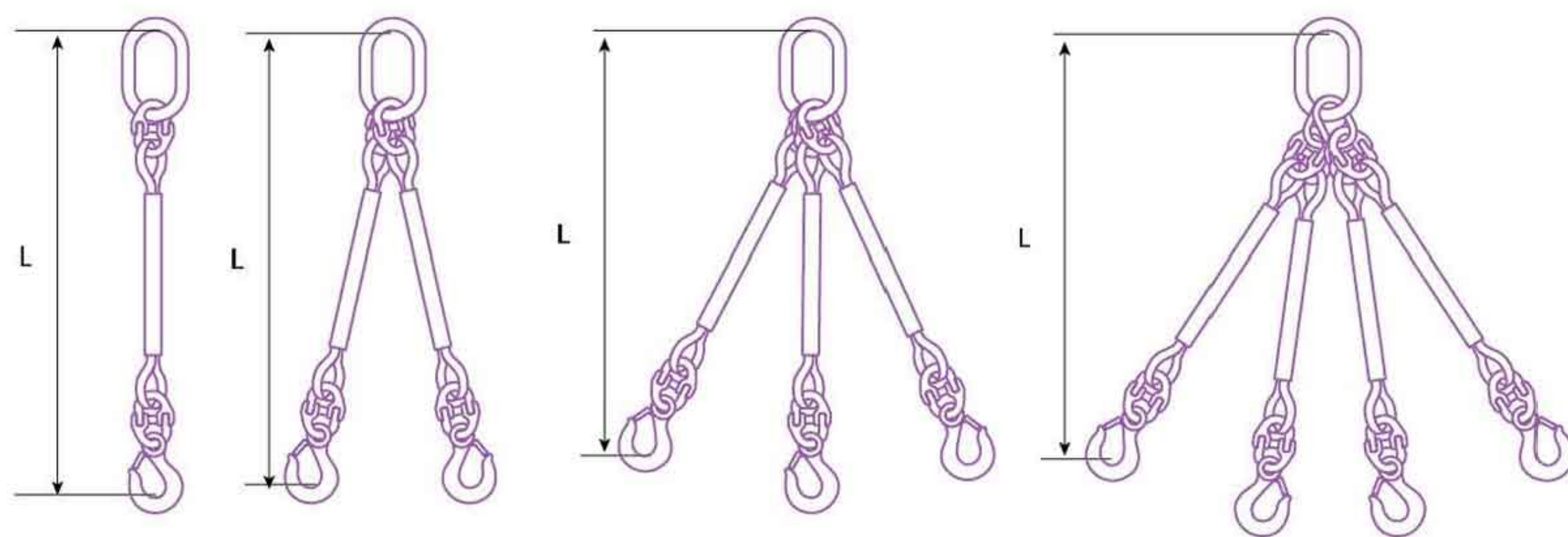
Polyester flat webbing slings fitted with steel triangles



Color	Blue	Green	Red	Yellow	Grey	Dark Red	Dark Blue	Light Red
Work	1 to	2 to	2,5 to	3 to	4 to	5 to	6 to	10 to
Lățime bandă	30 mm	60 mm	75 mm	90 mm	120 mm	150 mm	180 mm	300 mm

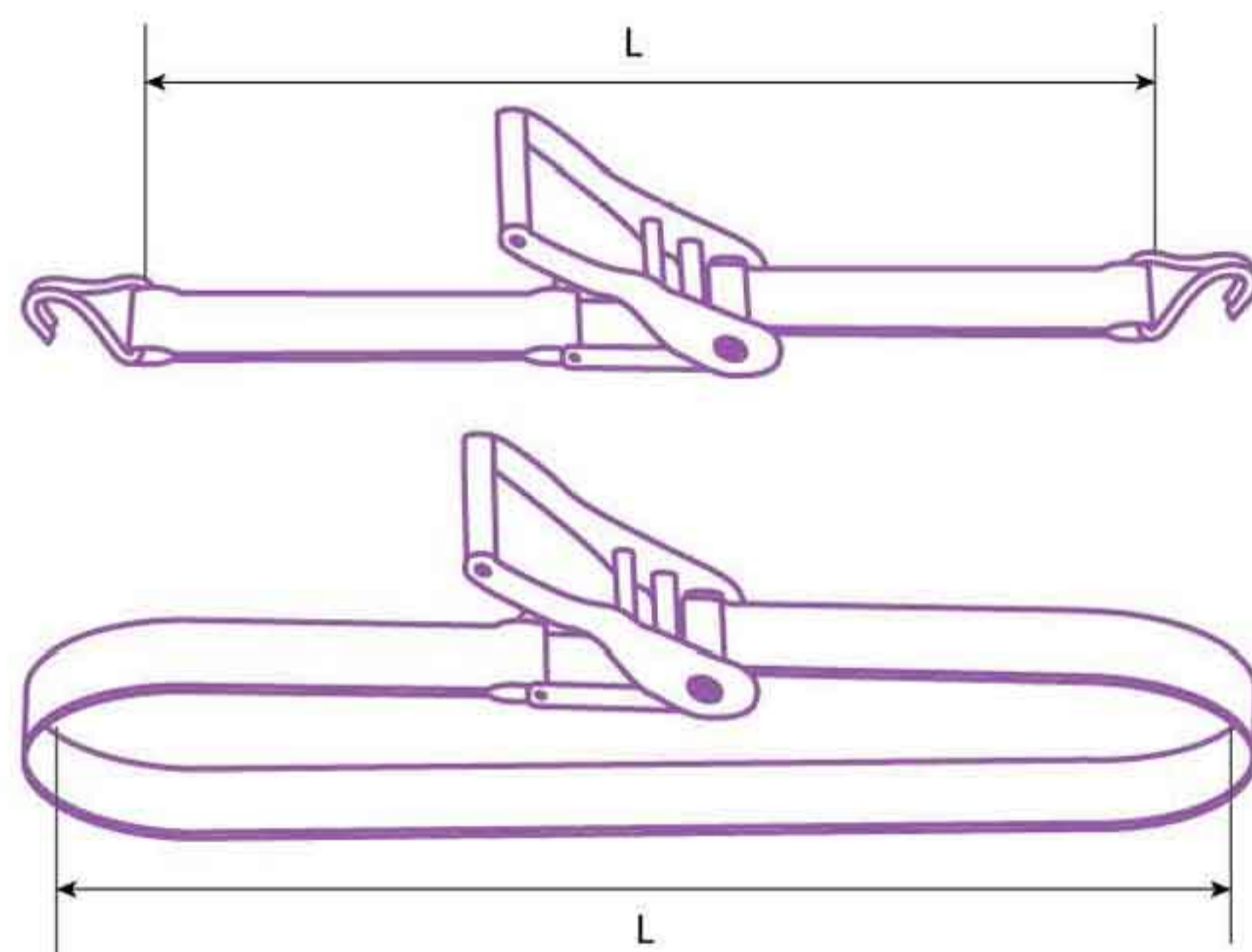
Polyester slings

Multi-leg polyester slings



Code	Working load [To]			
	1 leg	2 legs	3 legs	4 legs
FK 10	1,0	1,4	2,1	2,1
FK 20	2,0	2,8	4,2	4,2
FK 30	3,0	4,2	6,3	6,3
FK 40	4,0	5,6	8,4	8,4
FK 50	5,0	5,6	10,5	10,5
FK 60	6,0	8,4	12,6	12,6
FK 80	8,0	11,2	16,8	16,8
FK 100	10,0	14,00	21,0	21,0

Polyester cargo lashings



- robust tension system
- anti-corrosion protection
- can be equipped with fittings

Cargo lashings are two type:

- A two part system consists of a short part and a long part with a tensioning device provided on the short part. Variety of hooks can be provided.
- Single Part System (Without hooks)

Color	working load [kg]	Width [mm]
Blue	2.500	35
Orange	4.000	50
Red	5.000	50
Yellow	10.000	75

Polyester and polypropylene ropes



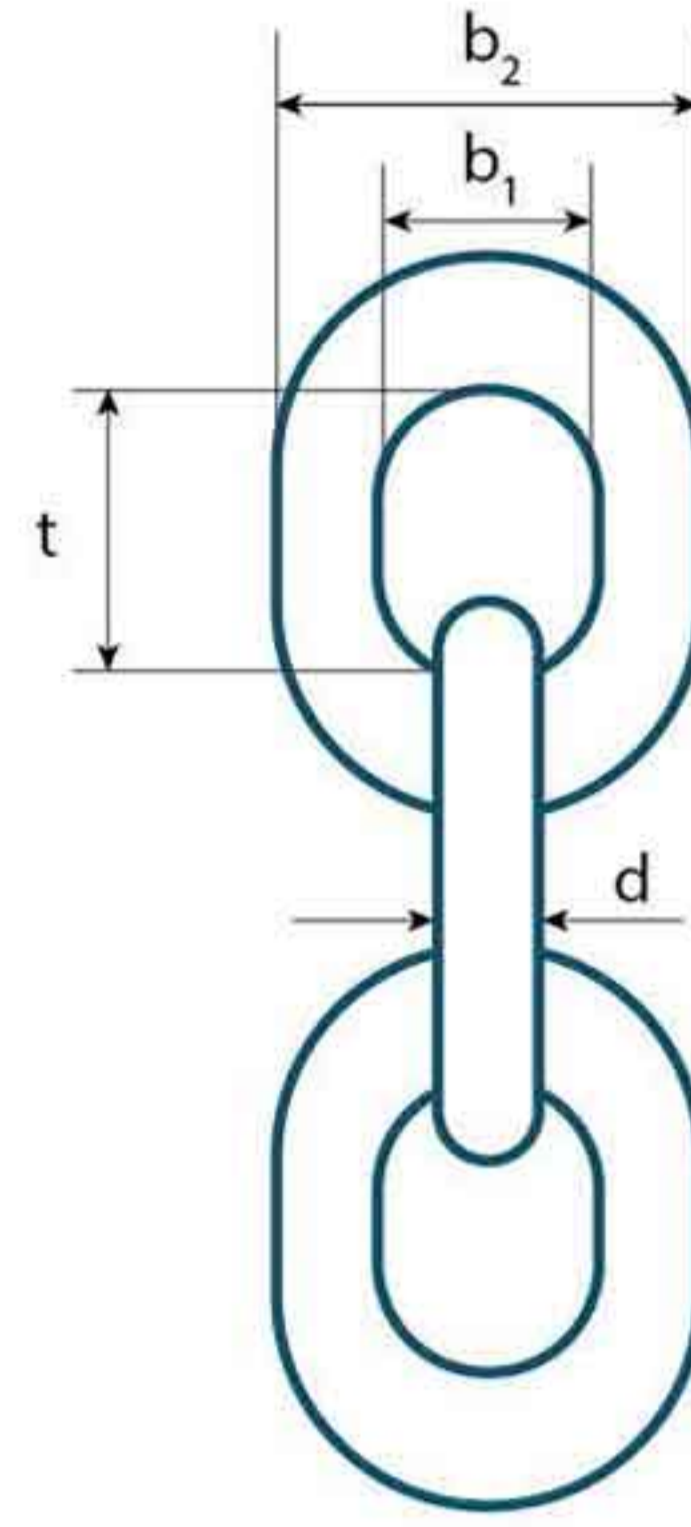
- synthetic fiber (polypropylene, polyamide)
- natural fiber (hemp, jute)
- used in large fields of activity (industrial, shipping)
- diameter up to 100 mm
- polyester or polypropylene slings with/without eyes for marine

d [mm]	Polypropylene rope		Jute rope		Polyester rope	
	Weight [kg/m]	Breaking force [daN]	Weight [kg/m]	Breaking load [daN]	Weight [kg/m]	Breaking force [daN]
4					0,006	70
6					0,020	170
8	0,029	750	0,04	350	0,039	200
10	0,056	1150	0,06	510	0,060	370
12	0,059	1550	0,08	600	0,083	750
14	0,091	2170	0,11	720	0,105	1500
16	0,116	2700	0,15	870	0,160	2400
18	0,149	3400	0,18	1050		
20	0,179	4100	0,24	1260		

Round steel link chains

Round steel link chains DIN 766

Wire diameter d [mm]	Inside length t [mm]	Inside width b ₁ [mm]	Weight [kg/m]	WLL [kg]	Test load [kN]	Breaking load [kN]
4	16	4,8	0,32	200	5	8,0
5	18,5	6,0	0,50	320	8	12,5
6	18,5	7,2	0,80	400	10	16,0
7	22	8,4	1,10	630	16	25,0
8	24	9,6	1,40	800	20	32,0
9	27	10,8	1,80	1.000	25	40,0
10	28	12,0	2,30	1.250	32	50,0
11	31	13,2	2,70	1.600	40	63,0
13	36	15,6	3,90	2.000	50	80,0
16	45	19,2	5,80	3.200	80	125,0
18	50	21,6	7,40	4000	100	160,0
20	56	24,0	9,00	5.000	125	200,0
23	64	27,6	12,00	6300	160	250,0
26	73	31,2	15,00	8.000	200	320,0
28	78	33,6	18,00	10.000	250	400,0
30	84	36,0	20,00	11.200	280	450,0
32	90	38,4	23,00	12.500	320	500,0
36	101	43,2	29,00	16.000	400	630,0
40	112	48,0	35,00	20.000	500	800,0



- Finish:
- bright
 - galvanised
 - stainless steel

Round steel link chains for conveyors DIN 764

Wire diameter d [mm]	Inside length t [mm]	Inside width b ₁ [mm]	Weight [kg/m]	WLL [kg]	Test load [kN]	Breaking load [kN]
10	35	14	2,0	13	32	50
13	45	18	3,5	21	53	85
16	56	22	5,2	32	80	125
18	63	24	6,5	40	100	160
20	70	27	8,2	50	125	200
23	80	31	11,0	67	170	265
26	91	35	14,0	85	212	340
28	98	36	16,5	100	250	400
30	105	39	19,0	112	280	450
33	115	43	22,5	132	335	530
36	126	47	26,5	160	400	630
39	136	51	31,0	190	475	750
42	147	55	36,0	224	560	900

Round steel link chains for conveyors DIN 762

Wire diameter d [mm]	Inside length t [mm]	Inside width b ₁ [mm]	Weight [kg/m]	WLL [kg]	Test load [kN]	Breaking load [kN]
10	50	14,0	1,8	10	25	50
13	65	18,2	3,1	16	40	80
16	80	22,4	4,7	25	63	125
18	90	25,0	6	32	80	160
20	100	28,0	7,4	40	100	200

- Finish:
- bright
 - galvanised
 - stainless steel

High tensile-mining chains DIN 22252

Wire diameter d [mm]	Inside length t [mm]	Inside width b ₁ [mm]	Weight [kg/m]	WLL [kN]	Breaking load [kN]
14	50	17	4,0	200	250
18	64	21	6,6	330	410
19	64,5	22	7,6	360	450
22	86	26	9,5	490	610
24	87,5	28	11,5	580	720
26	92	30	13,7	640	850
30	108	34	18,0	850	1.130
34	126	38	22,7	1080	1.450

Commercial chain DIN 5685/A

Ød [mm]	Inside length t [mm]	Inside width b ₁ [mm]	Weight Kg/100m
2 ±0,1	12 ±0,6	3,5	7
2,5 ±0,1	14 ±0,7	4,5	11
3 ±0,2	16 ±0,8	5,5	17
3,5 ±0,2	18 ±0,9	6,0	23
4 ±0,2	19 ±1,0	7,0	30
5 ±0,3	21 ±1,1	9,0	50
6 ±0,3	24 ±1,2	11,0	73
7 ±0,4	28 ±1,4	12,0	99
8 ±0,4	32 ±1,6	14,0	130
10 ±0,5	40 ±2,0	18,0	200
13 ±0,7	52 ±2,6	23,0	340

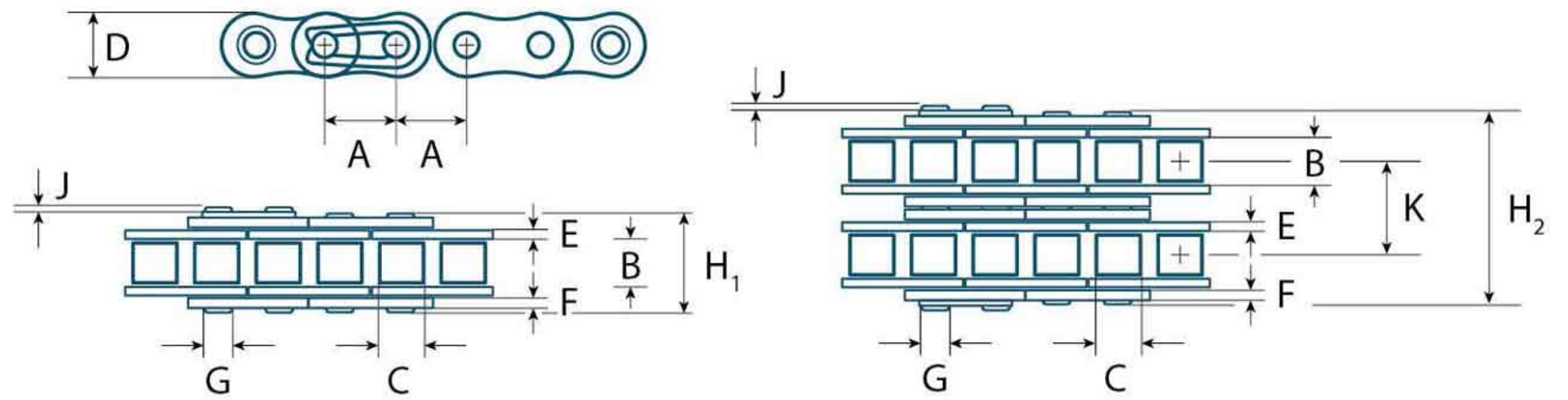
- Finish:
- bright
 - galvanised
 - stainless steel

Commercial chain DIN 5685/C

Ød [mm]	Inside length t [mm]	Inside width b ₁ [mm]	Weight Kg/100m
2 ±0,1	22 ±1,1	3,5	6
2,5 ±0,1	24 ±1,2	4,5	10
3 ±0,2	26 ±1,3	5,5	14
3,5 ±0,2	28 ±1,4	6,0	20
4 ±0,2	32 ±1,6	7,0	26
5 ±0,3	35 ±1,8	9,0	42
6 ±0,3	42 ±2,1	11,0	61
7 ±0,4	49 ±2,5	12,0	82
8 ±0,4	52 ±2,6	14,0	110
10 ±0,5	65 ±3,3	18,0	170
13 ±0,3	82 ±4,1	23,0	290

Roller chains

- for farming
- for cement industry
- for wood industry
- for oil industry
- roller chain type A și B (ISO, ANSI), cu 1-8 rows



European standard (BS) - Simple

Chain type	Pitch [mm]	Interior width [mm]	Roll diameter [mm]	Bolt diameter [mm]	Bolt length [mm]	Breaking strength [Min][ISO]	Weight [kg/m]
05B-1	8,00	3,00	5,00	2,31	8,00	4.400	0,20
06B-1	9,525	5,72	6,35	3,28	13,20	8.900	0,41
08B-1	12,70	7,75	8,51	4,45	16,70	17.800	0,69
10B-1	15,875	9,65	10,16	5,08	19,60	22.200	0,93
12B-1	19,05	11,68	12,07	5,72	22,50	28.900	1,15
16B-1	25,40	17,02	15,88	8,28	36,00	60.000	2,71
20B-1	31,75	19,56	19,05	10,19	41,10	95.000	3,70
24B-1	38,10	25,40	25,40	14,63	53,30	160.000	7,10
28B-1	44,45	30,99	27,94	15,90	64,80	200.000	8,50
32B-1	50,80	30,99	29,91	17,81	66,20	250.000	10,25

American standard (ANSI) - Simple

Chain type	Pitch [mm]	Interior width [mm]	Roll diameter [mm]	Bolt diameter [mm]	Bolt length [mm]	Breaking strength [Min][ISO]	Weight [kg/m]
A25-1	6,35	3,18	3,30	2,31	7,80	3.500	0,15
A35-1	9,525	4,77	5,08	3,58	12,15	7.900	0,33
A41-1	12,70	6,25	7,77	3,58	13,75	6.700	0,41
A40-1	12,70	7,85	7,95	3,96	16,60	13.900	0,62
A50-1	15,875	9,40	10,16	5,08	20,90	21.800	1,02
A60-1	19,05	12,57	11,91	5,94	25,90	31.300	1,50
A80-1	25,40	15,75	15,88	7,92	32,80	55.600	2,60
A100-1	31,75	18,90	19,05	9,53	40,00	87.000	3,91
A120-1	38,10	25,22	22,23	11,10	50,45	125.000	5,62
A140-1	44,45	25,22	25,40	12,70	54,90	170.000	7,50
A160-1	50,80	31,55	28,58	14,27	65,50	223.000	10,10

European standard (BS) - Double

Chain Type	Pitch [mm]	Interior width [mm]	Roll diameter [mm]	Bolt diameter [mm]	Bolt length [mm]	Breaking strength [Min][ISO]	Weight [kg/m]
B06b-2	9,525	5,72	6,35	3,28	23,5	16.000	0,77
B08b-2	12,70	7,75	8,51	4,45	31,0	31.100	1,34
B10b-2	15,875	9,65	10,16	5,08	36,2	44.500	1,84
B12b-2	19,05	11,68	12,07	5,72	42,1	57.800	2,31
B16b-2	25,40	17,02	15,88	8,28	67,5	106.000	5,42
B20b-2	31,75	19,65	19,05	10,19	77,2	170.000	7,20
B24b-2	38,10	25,40	25,40	14,63	101,6	280.000	13,40
B28b-2	44,45	30,99	27,94	15,90	124,1	360.000	16,60
B32b-2	50,80	30,99	29,21	17,81	124,6	450.000	21,00

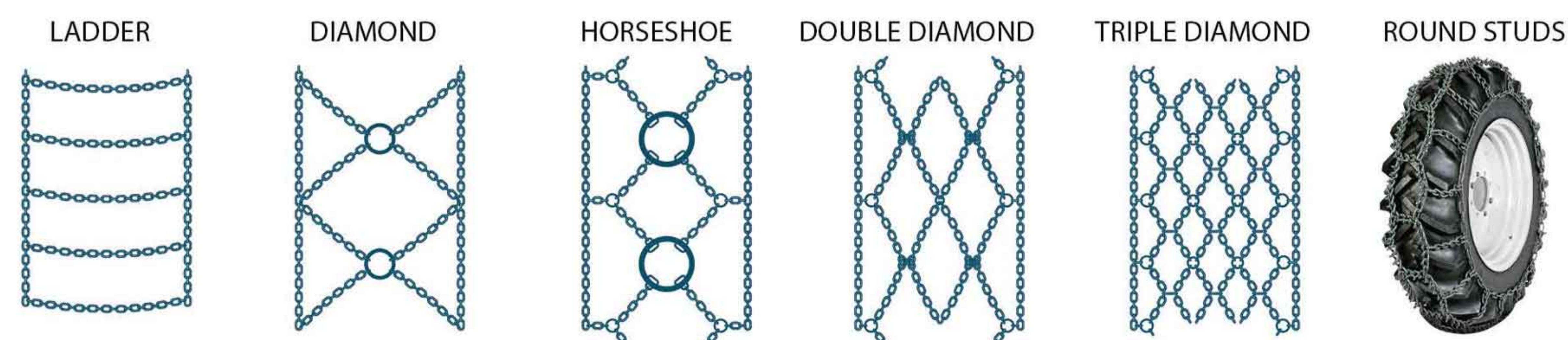
American standard (ANSI) - Double

Chain type	Pitch [mm]	Interior width [mm]	Roll diameter [mm]	Bolt diameter [mm]	Bolt length [mm]	Breaking strength [Min][ISO]	Weight [kg/m]
A40-2	12,70	7,85	7,95	3,96	31,10	27.800	1,12
A50-2	15,875	9,40	10,16	5,08	39,00	43.600	2,00
A60-2	19,05	12,57	11,91	5,94	48,80	62.600	2,92
A80-2	25,40	15,75	15,88	7,92	61,90	111.200	5,15
A100-2	31,75	18,90	19,05	9,53	76,20	174.000	7,80
A120-2	38,10	25,22	22,23	11,10	95,40	250.000	11,70
A140-2	44,45	25,22	25,40	12,70	103,10	340.000	15,14
A160-2	50,80	31,55	28,58	14,27	122,90	446.000	20,14

Snow chains

Snow chain for forestry vehicles

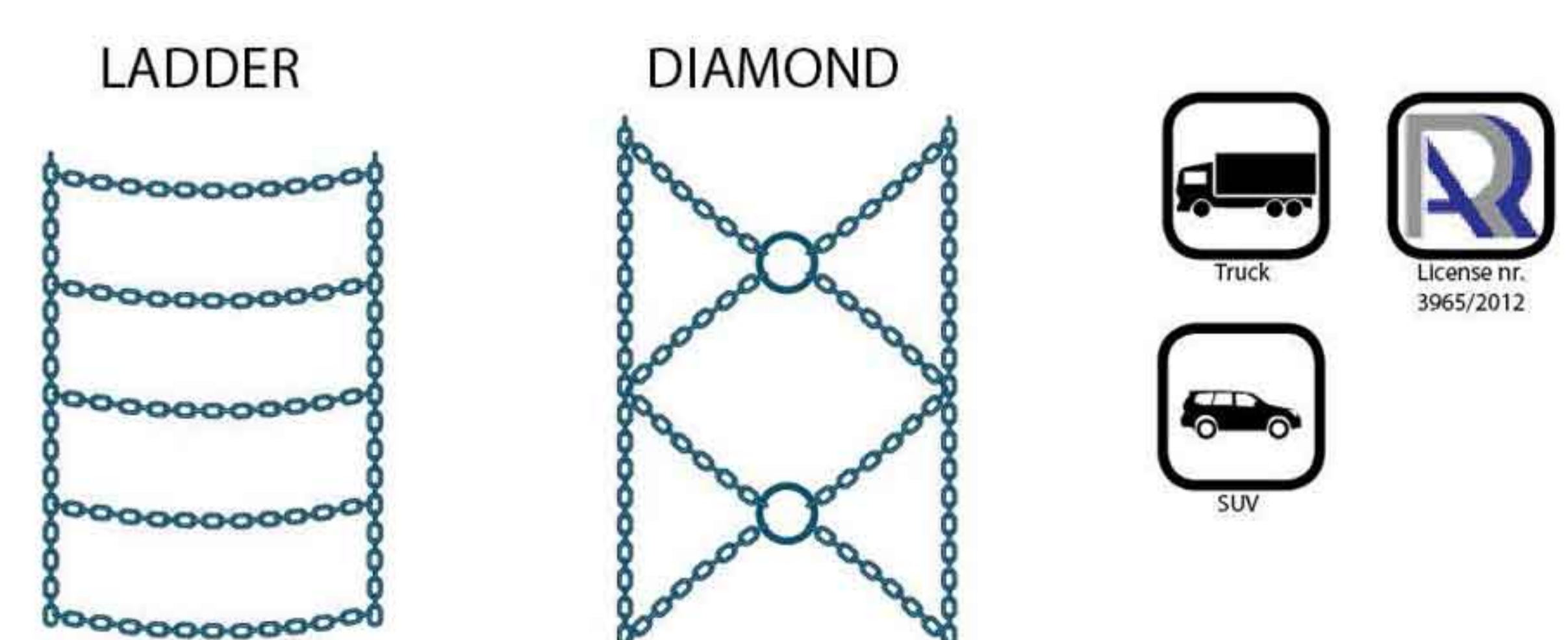
- manufactured from high resistance industrial chain according DIN 766 for extreme conditions in the areas of: forestry, agricultural, havy industry
- bigger chain diameter for increased adhesion on any surface (snow, ice, mud), high breaking forces (6 Tf - 8,5 Tf)
- various designs: ladder, diamond, horseshoe, double diamond, triplle diamond and diamond chain with 11 mm round studs.
- chei de strângere pentru o tensionare permanentă a lanțului pe profilul anvelopei



- Skidder
- Tractor
- Dozer
- Forklift
- Dumper

For trucks and various industry vehicles

- manufactured from hardening chain (chain whit high breaking force and hardening at surface)
- chain design for adhesion and density to ensure to move safety
- according ONORM v5119 and approved RAR

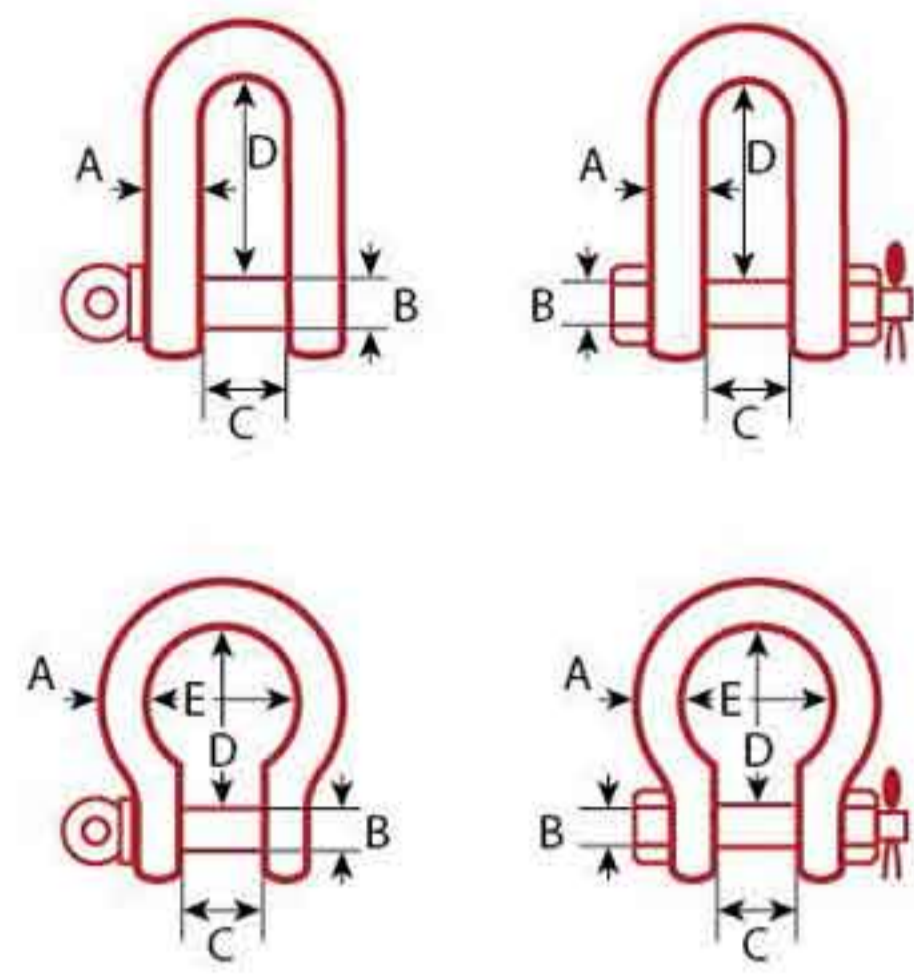


- Trucks
- SUV (4x4)
- OFF-ROAD vehicles
- Vans

Accessories for cables and chains

Shackles

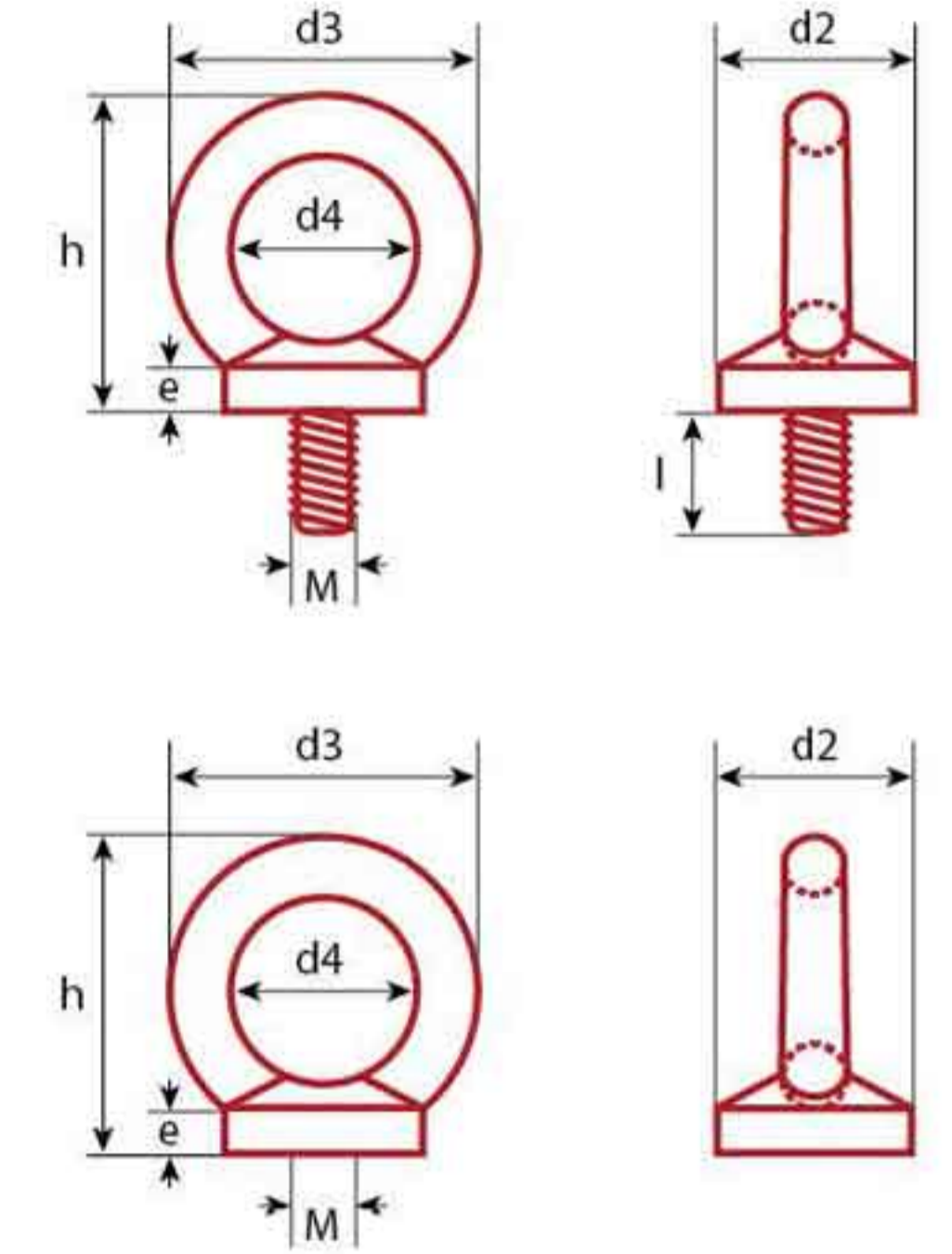
WLL [To]	∅ pin [mm]	c [mm]
0,33	6	9,5
0,50	8	12,0
0,75	10	13,5
1,00	11	17,0
1,50	12	18,5
2,00	16	22,0
3,25	19	27,0
4,75	22	31,0
6,50	25	36,0
8,50	28	43,0
9,50	32	47,0
12,00	35	51,0
13,50	38	57,0
17,00	42	60,0
25,00	50	74,0
35,00	57	83,0
42,50	65	95,0
55,00	70	105,0
85,00	80	127,0



- dee
- bow
- whit screw pin
- whit safety bolt

Eye bolts and nuts

Dimension	W [kg]	
	0°	0-60°
M 6	0,09	0,06
M 8	0,14	0,10
M 10	0,23	0,17
M 12	0,34	0,24
M 14	0,50	0,35
M 16	0,70	0,50
M 18	0,93	0,65
M 20	1,20	0,83
M 22	1,50	1,05
M 24	1,80	1,27
M 27	2,50	1,83
M 27	2,50	1,83
M 30	3,60	2,60
M 33	4,20	3,05
M 36	5,10	3,70
M 42	7,00	5,00
M 48	8,60	6,10
M 56	11,50	8,30
M 64	16,00	11,00



Galvanized turnbuckles

Dimensions	WLL [kg]			
	75	225	75	225
M 6	75	225	75	225
M 8	165	410	165	410
M 10	235	650	235	650
M 12	320	930	320	930
M 14	420	1.320	420	1.320
M 16	530	1.770	530	1.770
M 20	730	2.700	730	2.700
M 22	1.120	3.300	1.120	3.300
M 24	1.550	3.920	1.550	3.920
M 27	1.870	4.950	1.870	4.950
M 30	2.240	6.250	2.240	6.250
M 33	2.850	7.560	2.850	7.560
M 36	---	---	---	9.100
M 39	---	---	---	10.600
M 42	---	---	---	12.500
M 45	---	---	---	14.400
M 48	---	---	---	16.500
M 50	---	---	---	18.100
M 52	---	---	---	19.800
M 56	---	---	---	23.000

Industrial wire rope clips

Wire rope diameter [mm]											
5	6	8	10	13	16	19	22	26	30	34	40
N* 3	3	5	5	5	5	5	7	7	8	8	8

*Minimum number of clips required

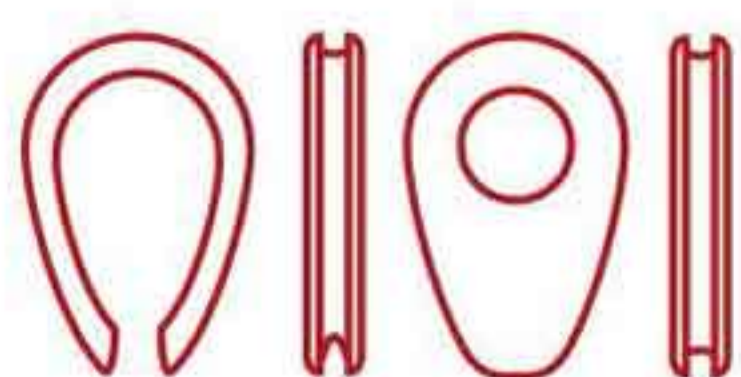


Wire rope clips acc. to DIN 714

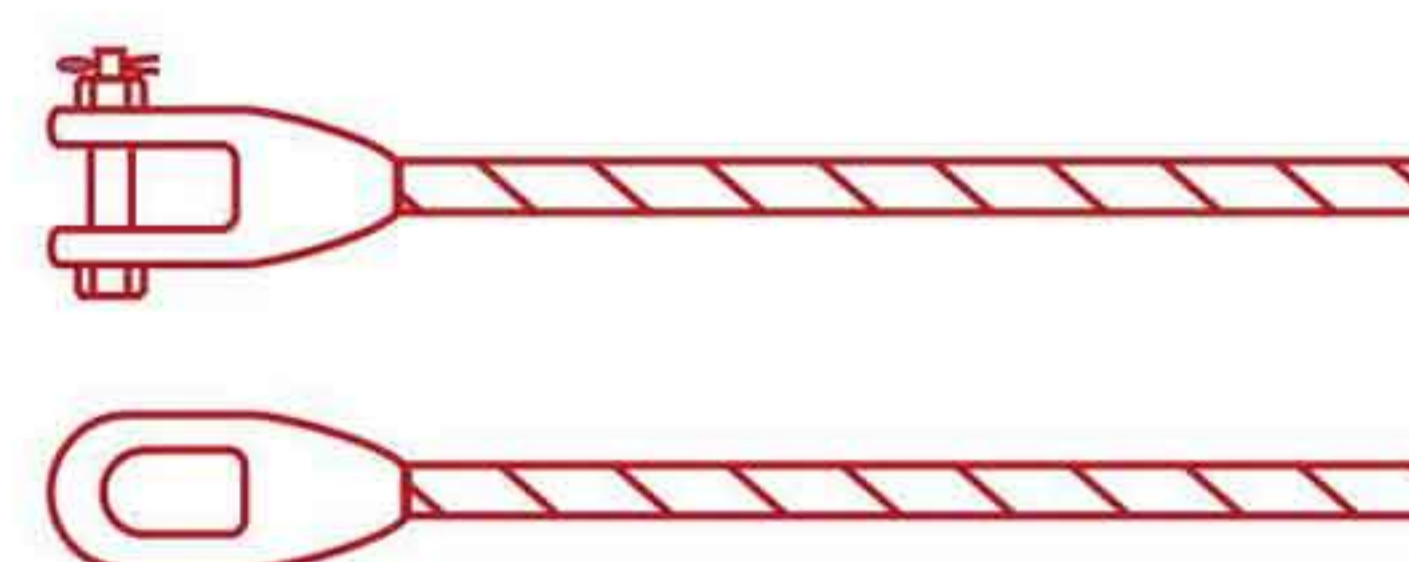
Wire rope diameter [mm]													
3	5	6	8	10	11	12	16	19	22	26	30	34	40



Zinc coated thimbles, solid thimbles



Spelter socket

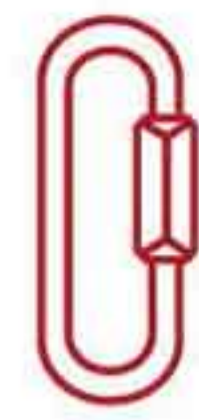


- for cranes and other equipment

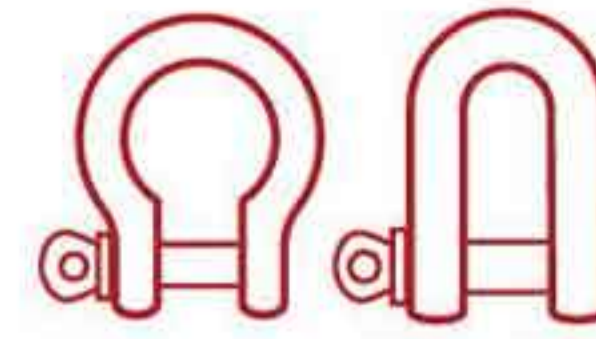
Commercial products



Snap hook



Snap whit safety screw



Commercial shackles



Wire-ties for agriculture



Commercial type turnbuckle



Eye bolt



Carlig rotativ inox

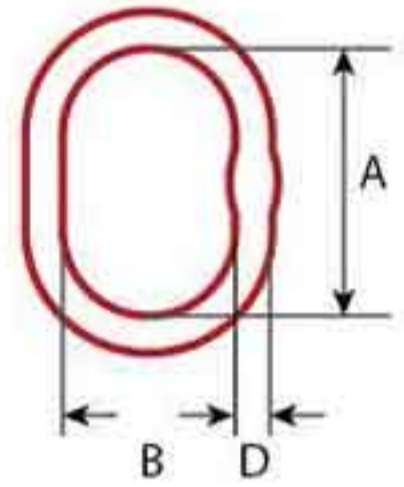


Open swage sockets



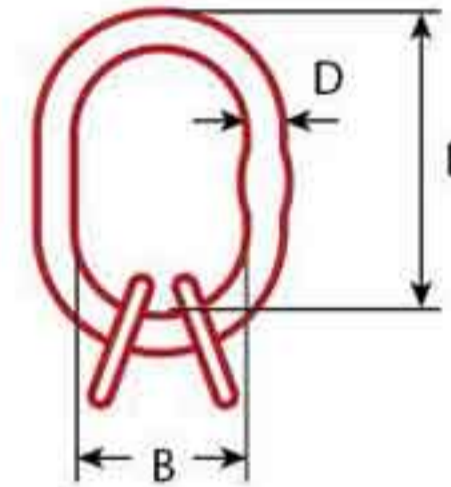
Simplex and duplex wire rope clips

Master link



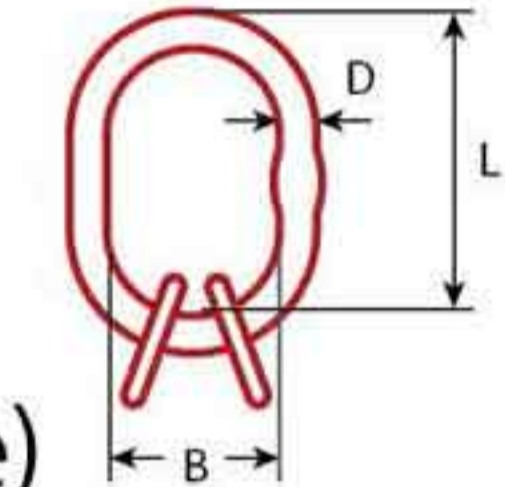
Type	[WLL/To]	A [mm]	B [mm]	D [mm]
8-6	1,60	110	60	13
8-7/8	2,12	110	60	16
8-8	3,15	135	75	18
8-10	5,30	160	90	22
8-13	8,00	180	100	26
8-16	11,20	200	110	32
8-18	14,00	260	140	36
8-20	17,00	300	160	40
8-22	21,20	340	180	45
8-26	31,50	350	190	50
8-32	45,00	400	200	56
8-72	63,00	460	250	72

Master link assembly (for chain)



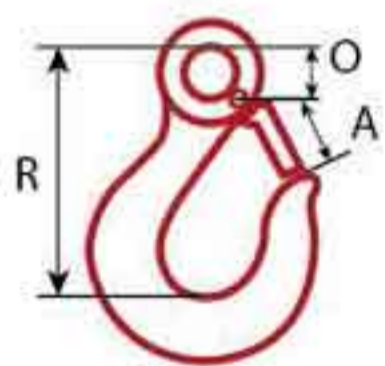
Type	[WLL/To]	B [mm]	D [mm]	L [mm]
8-6	2,36	75	18	135
8-7/8	4,25	90	22	160
8-10	6,70	100	26	180
8-13	11,20	110	32	200
8-16	17,00	140	36	260
8-20	26,50	190	50	350
8-22	31,50	190	50	350

Master link assembly (for wire rope)



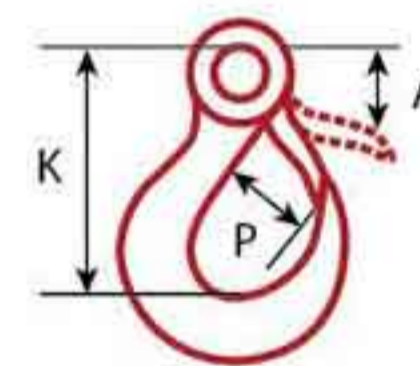
Type	[WLL/To]	B [mm]	D [mm]	L [mm]
8-7	5,50	95	20	160
8-10	9,40	110	26	190
8-13	14,20	130	32	230
8-16	22,30	150	38	275
8-20	33,50	180	45	340
8-22	40,80	190	50	350

Eye sling hook



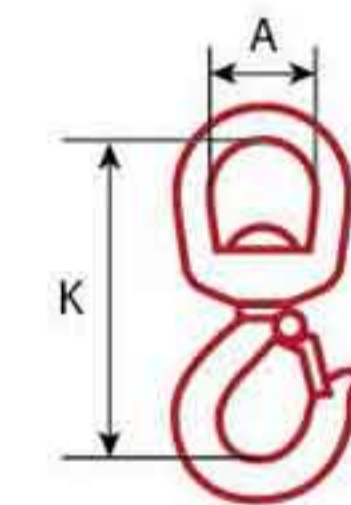
Type	[WLL/To]	A [mm]	B [mm]	O [mm]
8-6	1,12	24	80	20
8-7/8	2,00	30	98	25
8-10	3,15	34	120	38
8-13	5,30	39	153	43
8-16	8,00	46	185	50
8-20	12,50	61	217	62
8-22	15,00	71	224	62
8-26	21,20	81	237	64
8-32	32,50	102	259	88

Eye self locking hook



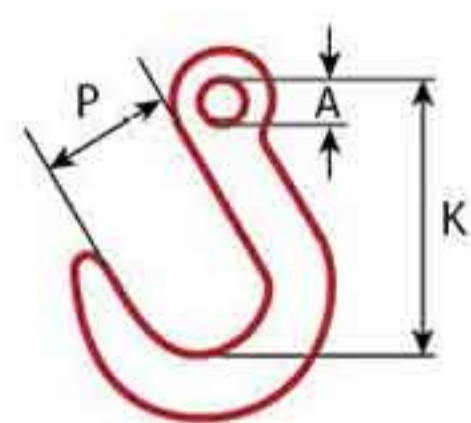
Type	[WLL/To]	A [mm]	P [mm]	K [mm]
8-6	1,12	21	7,5	110,5
8-7/8	2,00	24	35	136
8-10	3,15	30	43	171
8-13	5,30	40	51	208,5
8-16	8,00	60	82	257,5
8-20	12,50	63	88	275
8-22	15,00	70	88	320
8-26	21,20	80	110	363

Swivel hook



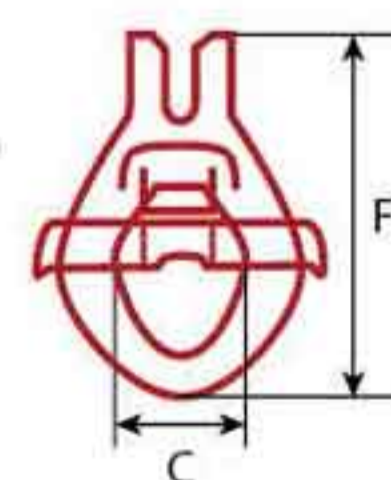
Type	[WLL/To]	A [mm]	K [mm]
8-6	1,12	32,5	149
8-7/8	2,00	36	187
8-10	3,15	42	223
8-13	5,30	49	268
8-16	8,00	61	330
8-20	10,00	79	332
8-22	15,00	105	431
8-26	20,00	105	472

Foundry hook



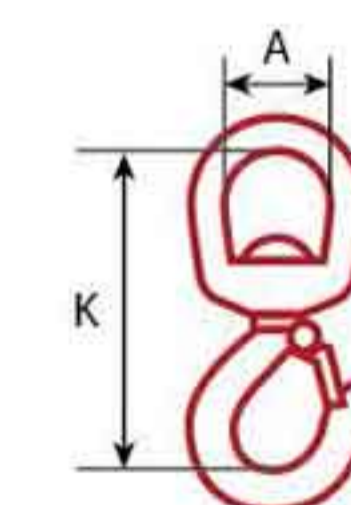
Type	[WLL/To]	A [mm]	P [mm]	K [mm]
8-7/8	2,00	18	63,5	120
8-10	3,15	22	76	146
8-13	5,30	27	89	175
8-16	8,00	32	102	205
8-20	12,50	38	114,5	235
8-22	15,00	45	127,5	264

Container Hook



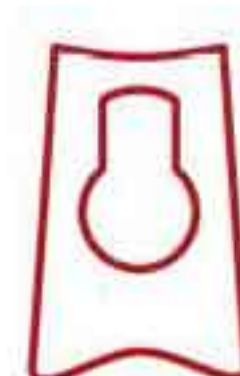
[WLL/To]	C [mm]	F [mm]
5,30	72	194

Self-locking swivel hook



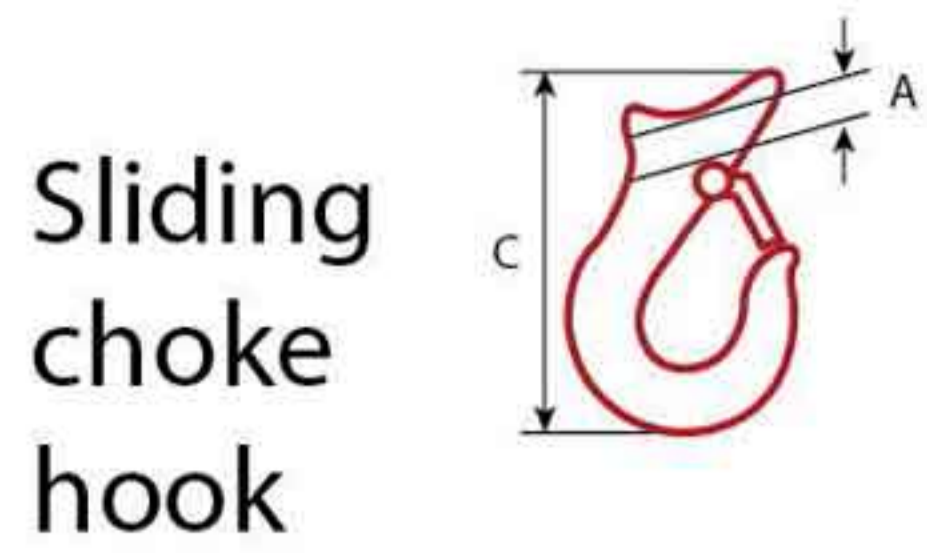
Type	[WLL/To]	A [mm]	K [mm]
8-6	1,12	32,5	149
8-7/8	2,00	36	187
8-10	3,15	42	223
8-13	5,30	49	268
8-16	8,00	61	330
8-20	10,00	79	332
8-22	15,00	105	431
8-26	20,00	105	472

Choker Hook For Logging



Chain Connector for Logging

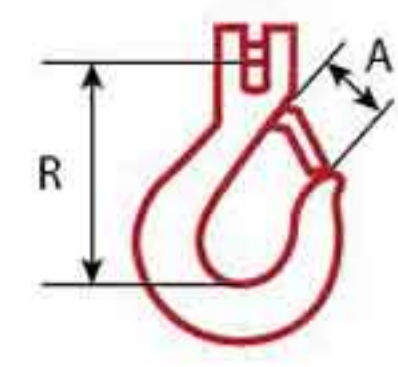




Sliding choke hook

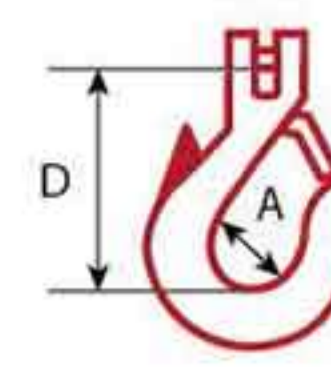
WLL	A [mm]	C [mm]
1,60	17	132
2,00	22	151,5
3,00	28	170
5,00	32,5	213

Clevis sling hook



Type	[WLL/To]	A [mm]	R [mm]
8-6	1,12	32,5	149
8-7/8	2,00	36	187
8-10	3,15	42	223
8-13	5,30	49	268
8-16	8,00	61	330
8-20	10,00	79	332
8-22	15,00	105	431
8-26	20,00	105	472

Self locking clevis hook



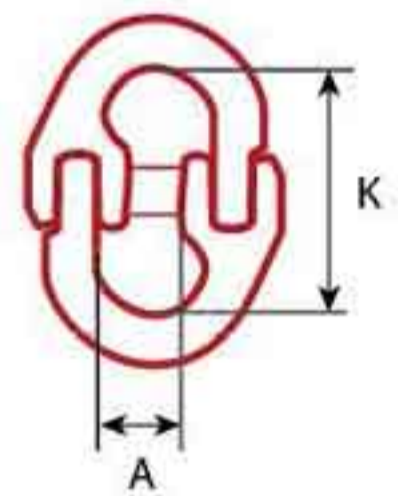
Type	[WLL/To]	A [mm]	D [mm]
8-6	1,12	32,5	149
8-7/8	2,00	36	187
8-10	3,15	42	223
8-13	5,30	49	268
8-16	8,00	61	330
8-20	10,00	79	332
8-22	15,00	105	431
8-26	20,00	105	472

Clevis shortening hook



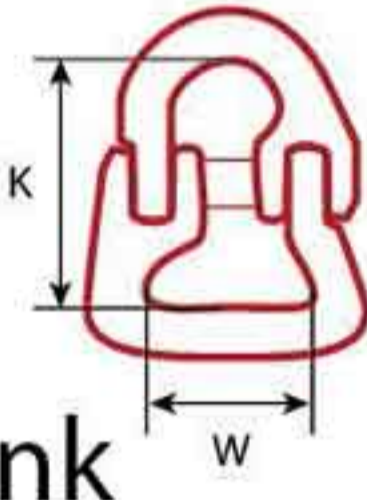
Type	[WLL/To]	E [mm]
8-6	1,12	8
8-7/8	2,00	11
8-10	3,15	14
8-13	5,30	18
8-16	8,00	21
8-20	12,50	24
8-22	15,00	27
8-26	21,20	30

Connecting link



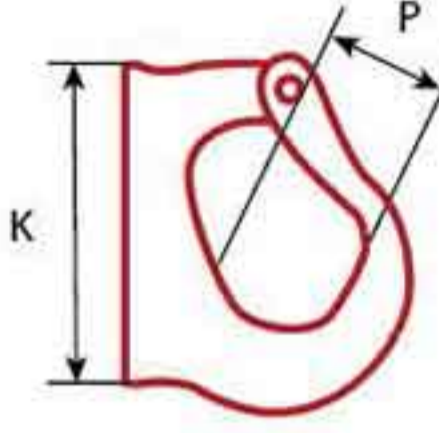
Type	[WLL/To]	A [mm]	K [mm]
8-6	1,12	15	42
8-7/8	2,00	18	60,5
8-10	3,15	25	68
8-13	5,30	29	87
8-16	8,00	34,5	108,4
8-20	12,50	41	121,5
8-22	15,00	48	141,5
8-26	21,20	57,5	158
8-32	31,50	67	205

Webbing sling connection link



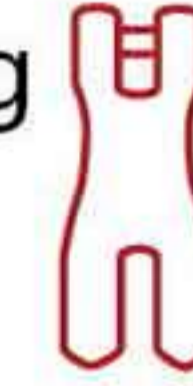
[WLL/To]	K [mm]	W [mm]
1,12	56	40
2,00	31,7	40
3,15	83	39
5,30	93,7	55
8,00	120	65,5
12,50	138	80

Welding hook



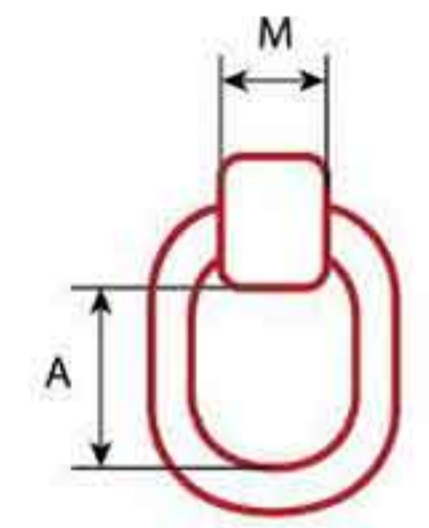
WLL	K [mm]	P [mm]
2,00	114	26,5
3,20	129	30,5
5,30	171	34
8,00	177	34
10,00	223	51

Shortening clutch



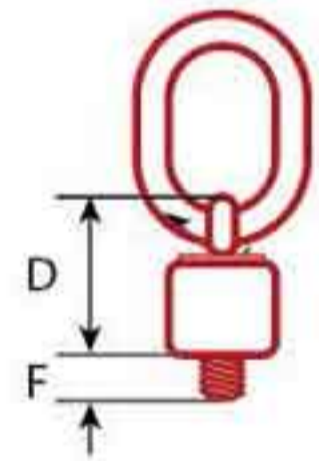
Type	[WLL/To]
8-6	1,12
8-7/8	2,00
8-10	3,15
8-13	5,30
8-16	8,00
8-20	12,50
8-22	15,00

Welding ring



[WLL/To]	A [mm]	M [mm]
1,12	78	37
2,00	88	40
3,15	94	42,5
5,30	118	50
8,00	141	66,6
15,00	188	90

Swivel eye bolt whit ring



Type	WLL		D [mm]	F [mm]
	90°	0°		
M 8x13	0,30	0,60	51	13
M 10x18	0,45	0,90	51	18
M 12x18	0,50	1,00	51	18
M 16x20	1,12	2,00	52	20
M 20x30	2,00	4,00	68	30
M 24x30	3,15	6,30	78	30
M 30x35	5,30	10,60	96,5	35
M 36x50	8,00	11,80	109	50
M 39x90	8,00	11,80	109	90
M 42x50	10,00	15,00	109	50

Spare parts for clevis sling hook

[WLL/To]
1,12
2,00
3,15
5,30
8,00
12,50



Spare parts for eye sling hook

[WLL/To]
1,12
2,00
3,15
5,30
8,00
12,50

Spare part for self locking hook

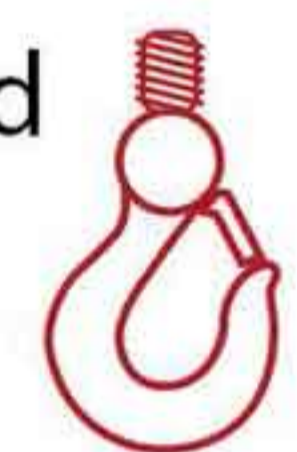
[WLL/To]
1,12
2,00
3,15
5,30
8,20
12,50



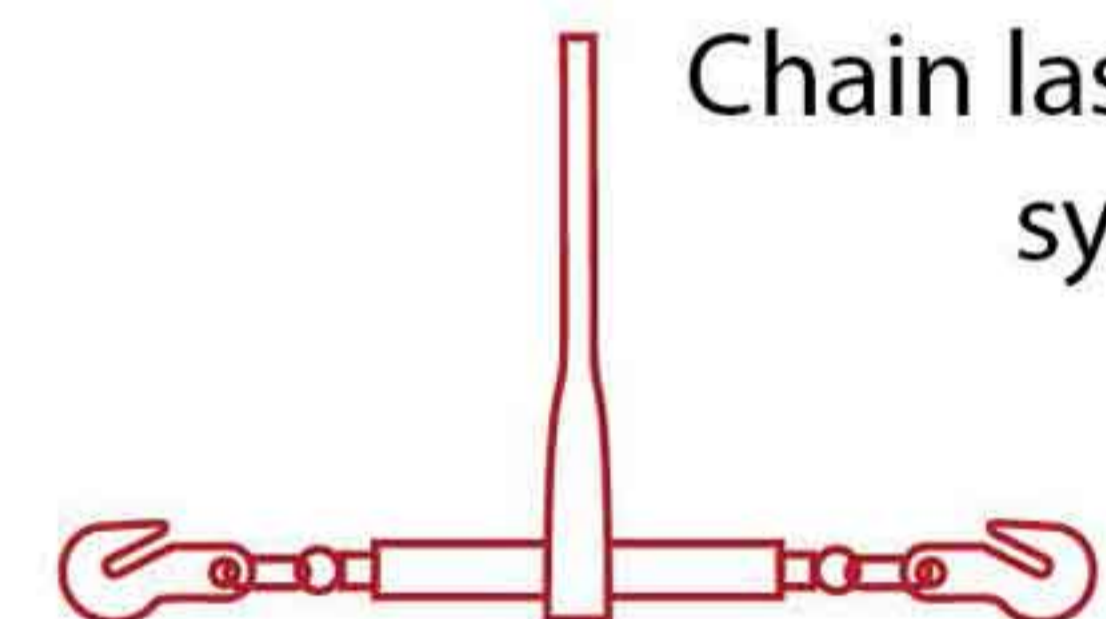
Chain shackles



Threaded Shank Hooklig



Chain lashing system



Sheet clamps

Horizontal



WLL [To]	Opening [mm]
0,5	0-30
1,0	0-60
1,5	0-60
2,0	0-60
3,0	0-60
4,0	0-60
5,0	0-60

Universal



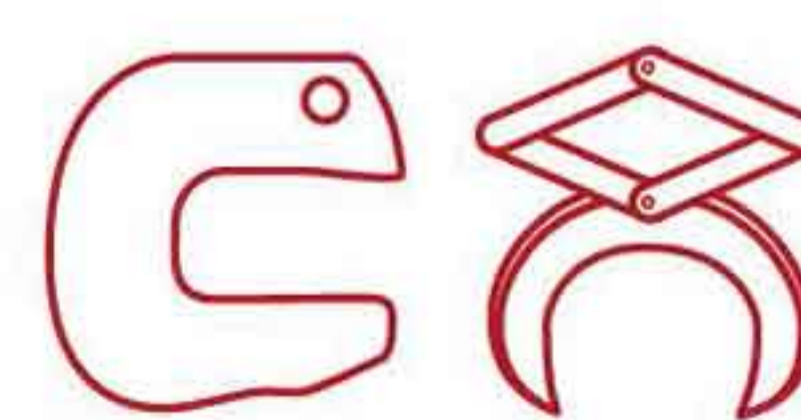
WLL [To]	Opening [mm]
0,5	0-15
1,0	0-20
2,0	0-25
3,0	0-30
5,0	0-50

Manipulation Clamps

Concrete pipe clamp



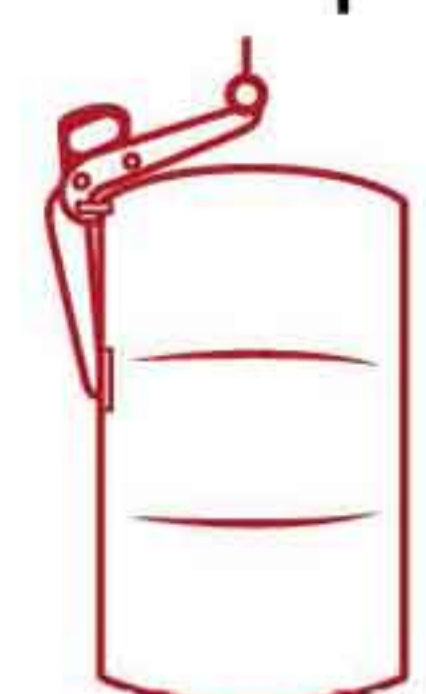
Pipe grab



Profile clamp



Barrel clamp



Lifting devices

Hand chain hoist

- Portable lifting device, used for periodic lifting or maintenance.

WLL [To]	Lifting height [m]	Test load [kN]	Manual effort [N]	Number of legs	Chain diameter [mm]
0,5	3	7,5	231	1	6x18
1	3	15	309	1	6x18
1,5	3	22,5	320	1	8x24
2	3	30	360	1	8x24
3	3	45	340	2	8x24
5	3	62,5	414	2	10x30
10	3	125	414	4	10x30
20	3	250	414x2	8	10x30



Lever chain hoist

- 360° rotation hook
- used for various kind of applications
- made for lifting, pulling

WLL [To]	Lifting height [m]	Test load [kN]	Minimum height [mm]	Number of legs	Chain diameter [mm]
0,5	1,5	0,75	300	1	5x15
0,75	1,5	1,12	320	1	6x18
1,5	1,5	2,5	380	1	8x24
3	1,5	3,8	480	1	10x30
6	1,5	7,65	600	2	10x30
9	1,5	11,5	700	3	10x30



Electric chain hoist



WLL [To]
0,5
1
1,5
2
3
5

- 3 phase
- load limiter
- remote controller

Beam push trolley



WLL [To]
1,00
2,00
3,00

- manual/electrical operation
- chain drive
- for IPN, IPE and H profile

Wire rope gripper (Tirfor)



- Multifunctional equipment for pulling and lifting
- For horizontal, vertical and diagonal use
- Adaptable to any type of activity

Rope diameter [mm]	WLL [To]	Rope length [m]
8	0,8	20
11	1,6	20
16	1,5	20
20	5,4	20

Electric winch

- Used for pulling and lifting
- Easy installation
- Automatic brake
- included: wire rope, hook and wire remote controller



Off-Road winch for 12V/24V

Car winches - hobby series

- Ideal for off-road applications
- For small and medium cars and industrial vehicles



Car winches - professional series

- Used for off-road extreme conditions
- For large cars and industrial vehicles



TOW TRUCK ELECTRIC WINCHES

- high resistance to extreme conditions of use
- Large amount of workload



Beam clamp

- robust construction
- easy to use and install



Crane fork

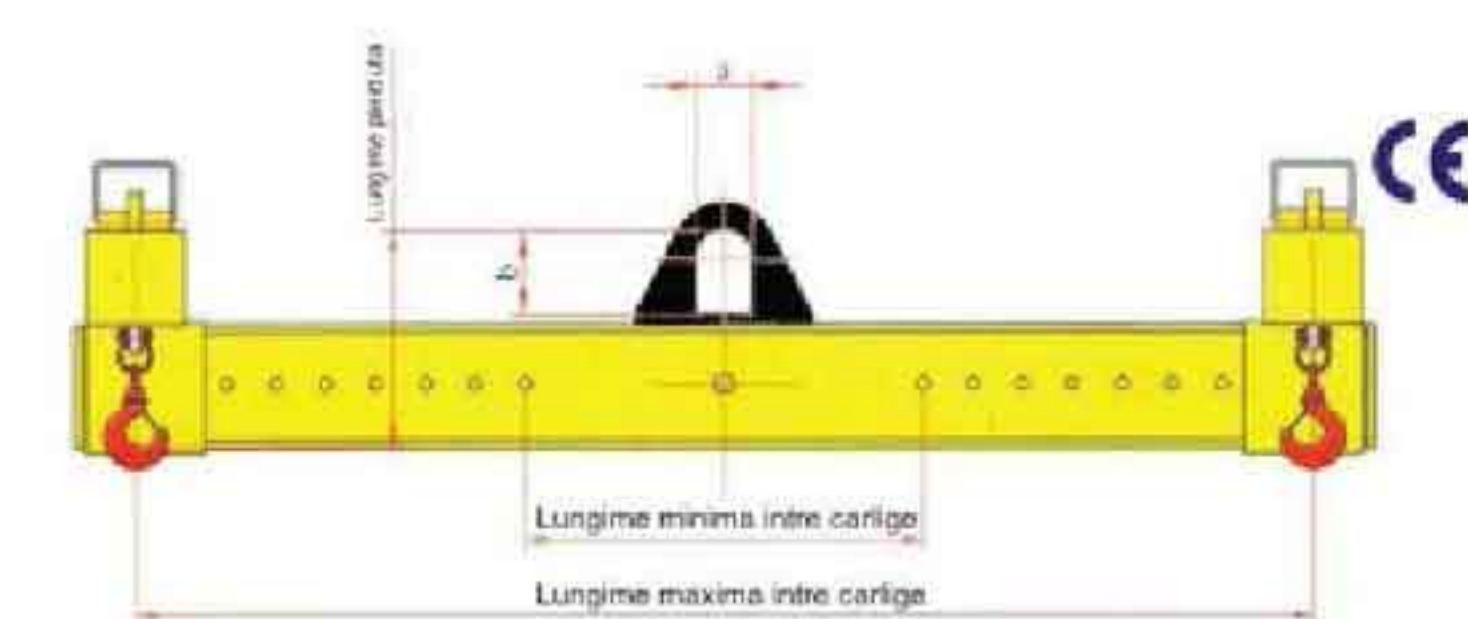


Manual winch



WLL [To]
545
816
1.749

Hoist traverse beam



- length: 4-12 ml
- working load: 2-150 to
- possible execution according to the project

PORTABLE ELECTRIC WINCH

- ATV, UTV, boats



Winch for general purposes

- whit hook
- whit shackle



Hidraulic trolley floor jack



WLL [To]
2
3
5
10

Hydraulic jack



WLL [To]
2
3
5
8
10
15
20
30
50

Dynamometer



Sarcina de lucru [To]
1,0
3,2
6,3
10,0

Rack and pinion jack



WLL [To]
3
5
10
16
20

Farm jack



Permanent lifting magnet



WLL [To]
0,1
0,3
0,6
1,0
2,0
3,0
6,0

Car body stand



Manual palet truck

- Load capacity: 100kg
- Lift height: 1600 cm



Platform truck



Pallet truck

- Load capacity: 2.500 kg



Mobile workshop crane



Troller skates



Truck for barrels



Strapping devices and tapes

Steel strapping band



- Steel strapping band is used for heavy packing applications, who required maximum safety during transport

Steel strapping tensioner



PP strapping band



- Polypropylene strapping band is widely used tightening and packing.
- For machine binding automatic and semi-automatic strapping machines

PP strapping device.



PET strapping band



- It's ideal for goods securing
- Large amount of workload

PES strapping machine



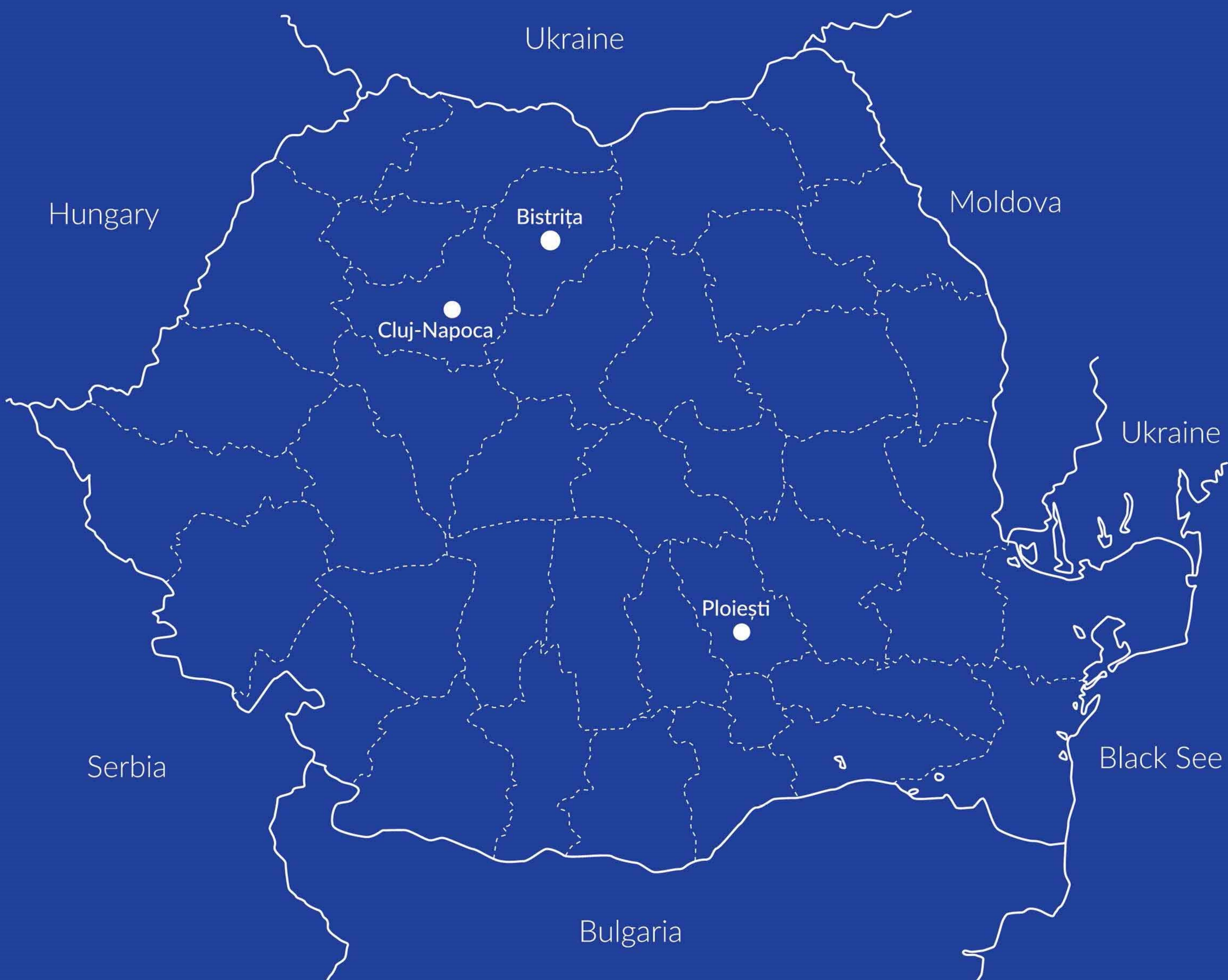
PES strapping band



- Pes strapping band can replace the binding metal belt
- The strips are made of polyester fiber fabric cross

PES strapping device





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