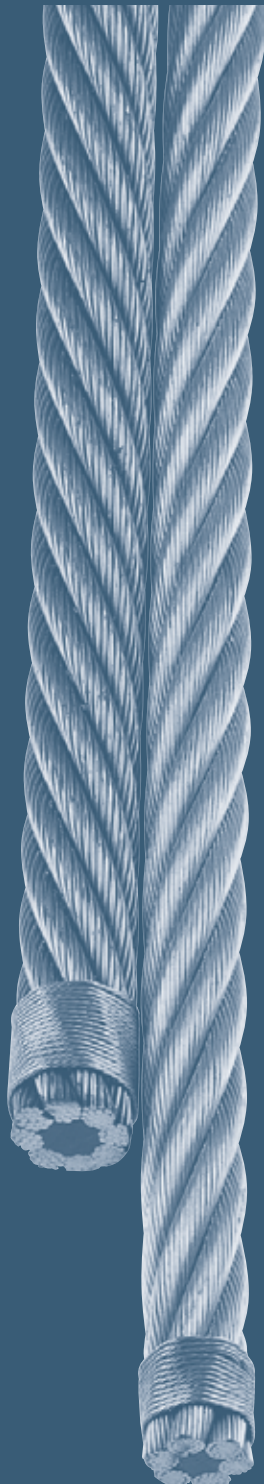




## Carl Stahl U.A.E



## International Offices



Dear Customers and Friends of Carl Stahl,

We are proud to present to you the latest edition of our Carl Stahl U.A.E catalogue. Some of the products have been edited from the original German version to serve more our customers in ever growing region.

It is our goal to make our products and services more accessible to everyone looking for safe and reliable solutions in all aspects of lifting, lashing, handling, and personal safety.

We have worked to make this catalogue as concise and comprehensive as possible without omitting any information that could be important to you.

Continuous improvement of our products and services is not just an empty promise; it is basic principle of the whole Carl Stahl Group.

With more than 1,200 employees in 52 subsidiaries worldwide we are where you need us. Benefit from our international competence and experience. We take the time to give you technical advice. But not only the product itself, also its safe and efficient use is becoming increasingly important for many customers. Therefore we are offering training in Germany at the Carl Stahl Academy in Suessen as well as internationally by Carl Stahl Evita including the United Arab Emirates.

Please benefit from our wide range of products and services.

Offering an additional benefit you will not find anywhere else, we want to join a productive and trustworthy partnership with our customers, find tailor-made solutions to your specific problems and offer an after-sales service that will never leave you alone.

We hope you will find this catalogue a useful purchasing and reference tool and will be pleased to assist you with all your questions & queries and look forward to having you as a customer.

Put us to the test; you will not be disappointed.

Carl Stahl U.A.E team



Welcome to Carl Stahl	2
INDEX	3
INTRODUCTION	4
WIRE ROPE GUIDELINES	5 - 7
ACCESSORIES	8
SLINGS: WIRE / GROMMET / CHAIN / SYNTHETIC & FIBRE	9 - 29
CHAIN & ACCESSORIES	30 - 33
MANUAL LIFTING EQUIPMENT	34 - 38
STEEL WIRE ROPE & ACCESORIES	39 - 48
LOAD RESTRAINT SYSTEMS	49 - 51
INDUSTRIAL TRUCKS / LIFTING MAGNETS	52
DIGITAL LOAD SUSPENSION EQUIPMENTS	53
SPECIAL LIFTING EQUIPMENT	54
QUALITY TRAINING (COURSES & CONTENTS)	55 - 56
ARCHITECTURE: I-SYS / X-TEND / X-LED	57 -61
ARCHITECTURAL PRODUCT PROGRAM	62
OUR SUCCESSFUL PRODUCTS	63



▶ Impressum

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The specialist company from Germany, founded in 1880, is constantly opening up new horizons with consistently thought-through applications and first-class quality.

Carl Stahl provides you with a complete range of materials handling products.

By contacting Carl Stahl UAE, you can receive up to the minute prices & availability on all our below mentioned products & services.

## OUR PRODUCTS (available from our workshop in the U.A.E)

- Steel Wire Rope Slings & Grommets.
- Polyester Webbing Slings and Ratchet Lashing Assemblies.
- Grade 80 Chain Slings (available in single leg & multi leg formats).
- Polypropylene, Nylon & Manila Rope Slings.
- Chain Block, Lever Hoist, Pulling Machine, Pallet Truck, Lifting Clamp, Trolleys, Shackles, Hooks, etc.
- CASAR special wire for cranes (agent & stockholder).
- Stainless Steel Cable-Systems-Solutions (wire rope with terminations & accessories, Architectural & Safety flexible wire mesh, cable suspension system for indoor applications).
- A whole range of equipment as detailed in our catalogues, available from our European offices.

## OUR SERVICES (provided from our facilities in the U.A.E)

- Tests, Inspection and Certification of onshore and offshore cranes, lifting devices and lifting equipment using calibrated test weights, load cells and water bags.
- Design and Fabrication of Spreader Beams / Systems.
- Conceptualization of Specialized Lifting systems (as per client requirement).
- Carl Stahl provides Training services through its group company Carl Stahl Evita.
- Developing a custom tailored solution for your project. Planning, analysis, and assembly  
-All exclusive from Carl Stahl.

## APPROVALS

- DNV Quality System ISO 9001:2008
- Registered by Dubai Municipality as per Law 2/2010
- Approved by Ministry of Labour & Social Affairs
- JAFZA approved Third Party Inspection Body
- Dubai Municipality Accredited Certifying Body ISO/IEC 17020:1998 (no IB-017)
- Full member of Lifting Equipment Engineers Association, UK (certificate no 248)
- I-SYS certification no Z 14,7-435 by the German Institute for Civil Engineering
- Member of the American Wire Rope Fabricators (certificate no 691)

Our work & services are conducted in accordance to the relevant local laws and ordinances, and carried out according to British and International standards as well as L.E.E.A

We supply quality products that give value for money and are always pleased to give technical support and advice.

Our technical and sales staff are knowledgeable, friendly and ready to take your call

We look forward to helping you with your enquiry.



# Steel Wire Rope

Carl Stahl offer a full range of steel wire ropes. From high performance special crane ropes to general purpose ropes for use in a variety of applications.

The guidelines on the following pages are principally directed towards crane operators who need to periodically replace steel wire ropes and to crane designers who are required to specify ropes for new build projects.

When replacing a steel wire rope on any crane or appliance reference should be made to the relevant original equipment manufacturers manual, the wire rope manufacturers test certificate originally supplied with the crane or appliance and to any other relevant documentation.

In order to ensure safe and efficient operation Carl Stahl recommend that any replacement wire rope should conform with the specified nominal diameter and at least equal the required strength originally specified by the manufacturer of the machine or appliance.

Additionally the wire rope construction selected should provide an equal or greater resistance to rotation, bend fatigue, crushing, abrasive wear, and corrosion when compared to the originally specified rope.

[www.carlstahl.ae](http://www.carlstahl.ae)

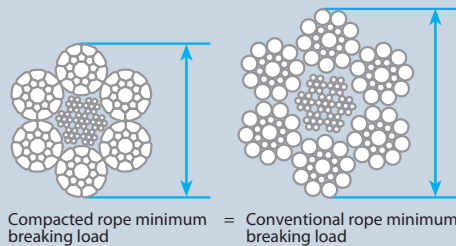


## Strength

Wire rope strength is normally referred to as minimum breaking force or minimum breaking load. The minimum breaking load of any given rope diameter can be increased in two basic ways;

- An increase in the tensile strength of the wire used to manufacture the rope will increase the minimum breaking load of the final rope. Typical tensile grades of wire used for crane rope manufacture are 1770 N/mm<sup>2</sup>, 1960 N/mm<sup>2</sup> and 2160 N/mm<sup>2</sup>
- Additionally it is possible to increase the steel fill factor of the wire rope. Fill factor means the ratio between the sum of the nominal cross sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter. More simply it measures the metallic cross sectional area of the rope.

It is possible to marginally increase the fill factor by varying the construction i.e. adding smaller filler wires. More effectively the individual strands of the rope can be compacted.



The resultant rope has a very high steel fill factor and consequently a relatively high minimum breaking load for any given diameter when compared with a conventional rope.

The high breaking load to diameter relationship offered by compacted ropes can allow crane manufacturers to optimise the design of crane components such as winding drums and sheaves whilst still complying with international crane design standards.

Lower stress levels which occur when crane operators replace a conventional rope with an identical diameter of high strength compacted rope can lead to more 'comfortable' operation and longer rope life.

## Diameter

Correct and consistent wire rope diameter is critical to performance on a modern crane, and a rope which is too large or too small, for the drum and sheaves in which it is operating can cause premature rope failure.

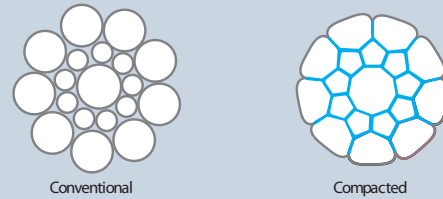
It is not only important to select a rope which has the correct nominal diameter according to the original equipment operating manual, but it is also important that the diameter of the rope is consistent throughout its entire length. Inconsistency in diameter, particularly short lengths where the rope is oversize, can cause premature localised wire breaks and short rope life.

## Bend Fatigue Resistance

Bend fatigue resistance is the ability of the wire rope to withstand repeated bending under constant or fluctuating loads. As the load increases in any reeving system so the rate of fatigue will increase. As bending radii decrease in a reeving system so the rate of fatigue will increase.

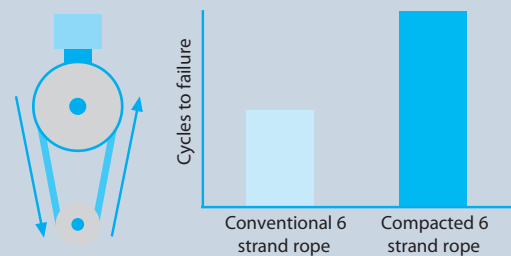
A wire rope which has an increased number of wires such as 6x36 construction will have greater resistance to fatigue than a 6x19 construction.

Extra fatigue life can be achieved by moving to compacted rope.

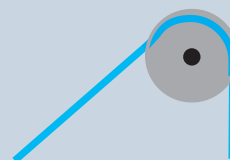


The compacted strand has very favourable internal and external contact conditions when compared with the point contact of round wires within a conventional strand.

The smooth surface of compacted rope offers a wider bearing surface to the sheave or drum groove. Increased fill factor, lowering internal stress levels, combined with improved internal and external contact conditions lead to longer rope life.



Laboratory fatigue testing indicates that it is possible to achieve up to two times normal rope life when comparing compacted rope with a conventional rope of equivalent construction.

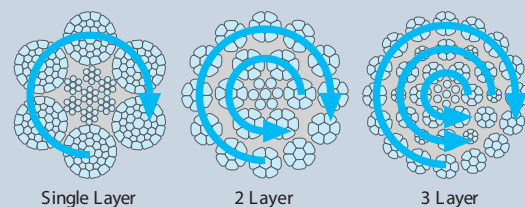


The smooth external surface of compacted rope can also lead to less wear on the sheave and winding drum.

## Rotation Resistance

Each wire rope construction will have an inherent torque characteristic where both ends of the rope are secured and an applied force will generate torque at the fixing points. Each wire rope construction will have an inherent turn characteristic where one end of the rope is free to rotate and an applied force will cause the free end of the rope to turn.

The torque or turn generated will depend upon the magnitude of the force applied and also upon the construction of the wire rope selected. In terms of resistance to rotation wire ropes can be divided into three basic categories.





Single layer ropes have a much greater tendency to rotate under load than the two or three layer ropes which are often referred to as rotation resistant. Similarly the three layer rope will have less tendency to rotate when compared with the two layer rope.

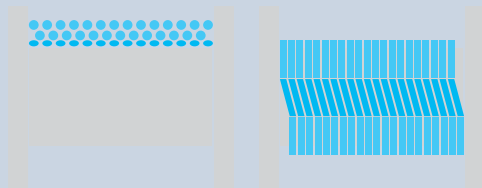
Both the two layer and three layer ropes depend on torsional balance between the outer and inner layers to create rotational stability. With correct rope selection rotation should not cause a problem in service provided that the rope has been correctly balanced in design and manufacture.

Before selecting a rotation resistant rope, consideration should be given to a single layer construction. If the application/duty in question does not require the rope to resist rotation then it is possible that a single layer rope can represent a more robust and more effective solution.

Safety note- Single layer Langs lay ropes (where the direction of strand lay is the same as the direction of rope lay) have exceptionally bad rotational characteristics and must only be used in applications where both ends of the rope are securely fixed.

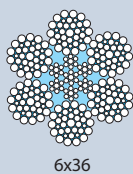
### Crush Resistance

Selection of a rope with an independent wire rope core or wire strand core as opposed to a fibre rope core can improve resistance to crushing.

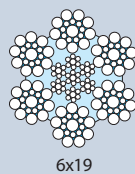


In multi-layer coiling situations where crushing of lower layers particularly at crossover point is unavoidable. Carl Stahl UK would recommend the use of compacted rope. The high steel fill factor, which is a feature of the compaction process, will offer greater resistance to crushing than an equivalent conventional rope.

### Resistance to Wear and Abrasion

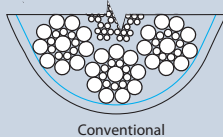


6x36

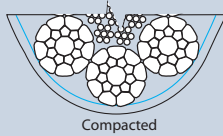


6x19

Larger external wires can provide greater resistance to wear and abrasion therefore a 6x19 construction might be selected in preference to a 6x36 construction in a situation in which wear and abrasion rather than bend fatigue are the principle cause of rope deterioration.



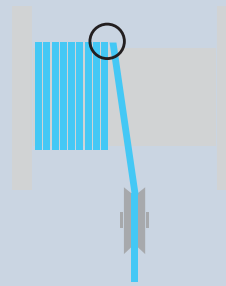
Conventional



Compacted

Maximum resistance to wear and abrasion can be achieved by selecting a compacted rope.

The smooth surface of the compacted rope offers a wider bearing surface to the sheave or drum groove resulting in improved resistance to wear and abrasion.



Abrasive wear can occur between the rope and any ancillary equipment such as sheaves and the surface of the winding drum but probably the most significant cause of abrasive wear on cranes takes place between adjacent laps of rope where the rope moves on and off the winding drum.

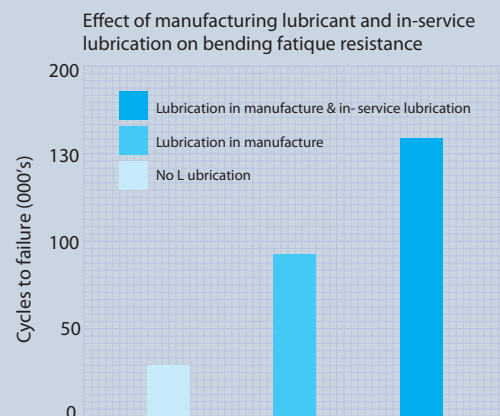
Selection of a compacted rope with its smooth external surface and very good contact condition will minimise abrasive wear between the rope and ancillary equipment and also between adjacent laps of rope.

### Corrosion Resistance

It is normal to select a rope with galvanised finish if it is likely to be used in a corrosive environment.

### Lubrication

Effective lubrication with the correct rope lubricant can extend fatigue life, minimise abrasive wear and help to minimise corrosion.



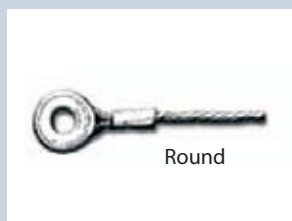
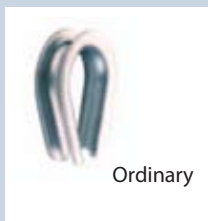
Laboratory bend fatigue tests show the significant effect which high performance manufacturing lubricant and in-service lubrication has on rope life. In-service lubrication with a suitable lubricant should be carried out wherever possible however the best opportunity to introduce lubricant into the rope is during manufacture.



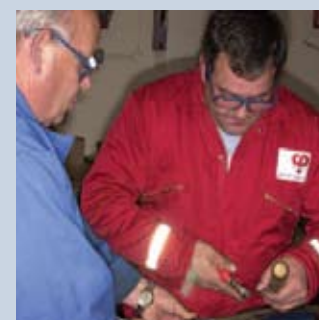
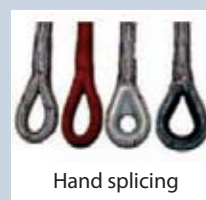


Available end terminations for wire rope

Thimbles



Eyes formed by



Sockets formed using white metal, zinc, resin



Field applied terminations



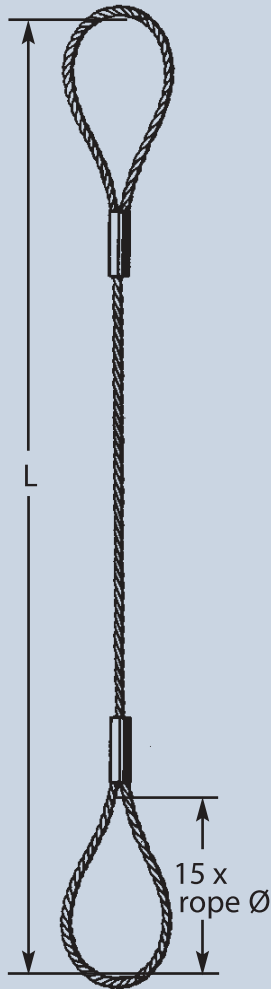
Other terminations



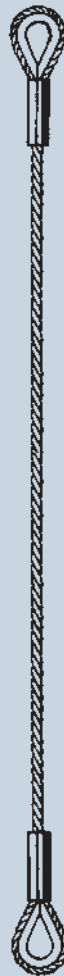




1102.  
Wire rope sling  
with pressed loops



1105.  
Wire rope sling with  
pressed thimble



1106.  
Wire rope sling with  
pressed loop and  
shackle



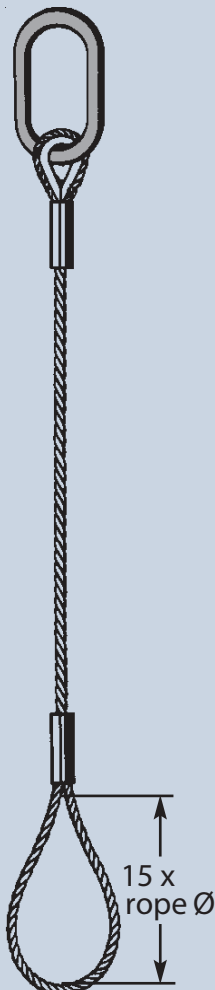
Rope ø in mm	WLL single direct in kg	Item no.	Item no.	Item no.
8	750	1102.01.08	1105.01.08	1106.01.08
10	1300	1102.01.10	1105.01.10	1106.01.10
12	2000	1102.01.12	1105.01.12	1106.01.12
13	2100	1102.01.13	1105.01.13	1106.01.13
14	2500	1102.01.14	1105.01.14	1106.01.14
16	3300	1102.01.16	1105.01.16	1106.01.16
19	4600	1102.01.18	1105.01.18	1106.01.18
20	5000	1102.01.20	1105.01.20	1106.01.20
22	6200	1102.01.22	1105.01.22	1106.01.22
24	7300	1102.01.24	1105.01.24	1106.01.24
26	8600	1102.01.26	1105.01.26	1106.01.26
28	10000	1102.01.28	1105.01.28	1106.01.28
32	13100	1102.01.32	1105.01.32	1106.01.32
36	15700	1102.01.36	1105.01.36	1106.01.36
38	18500	1102.01.40	1105.01.40	1106.01.40
44	25000	1102.01.44	1105.01.44	1106.01.44
52	35000	1102.01.48	1105.01.48	1106.01.48

Higher load capacities available on request. Please contact us.

1112.  
Wire rope sling with  
pressed loop and safety  
eye hook.



1113.  
Wire rope slings with  
master link and pressed  
loop



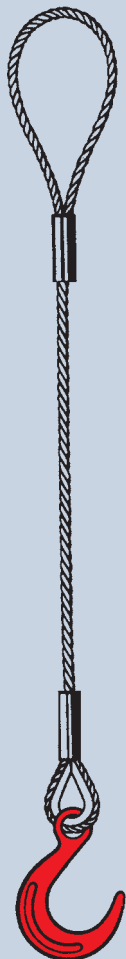
1115.  
Wire rope sling with  
pressed loop and self-  
locking eye hook



Rope ø in mm	WLL single direct in kg	Item no.	Item no.	Item no.
8	750	1112.01.08	1113.01.08	1115.01.08
10	1300	1112.01.10	1113.01.10	1115.01.10
12	2000	1112.01.12	1113.01.12	1115.01.12
13	2100	1112.01.13	1113.01.13	1115.01.13
14	2500	1112.01.14	1113.01.14	1115.01.14
16	3300	1112.01.16	1113.01.16	1115.01.16
19	4600	1112.01.18	1113.01.18	1115.01.18
20	5000	1112.01.20	1113.01.20	1115.01.20
22	6200	1112.01.22	1113.01.22	1115.01.22
24	7300	1112.01.24	1113.01.24	1115.01.24
26	8600	1112.01.26	1113.01.26	1115.01.26
28	10000	1112.01.28	1113.01.28	1115.01.28
32	13100	1112.01.32	1113.01.32	1115.01.32
36	15700	1112.01.36	1113.01.36	1115.01.36
38	18500	1112.01.40	1113.01.40	1115.01.40
44	25000	1112.01.44	1113.01.44	-
52	35000	1112.01.48	1113.01.48	-

Higher load capacities available on request. Please contact us.

1117.  
Wire rope sling with  
pressed loop and foundry  
hook



1118.  
Wire rope sling with  
master link and foundry  
hook



1121.  
Wire rope sling with  
pressed loop and safety  
hook



1122.  
Wire rope sling with  
master link and safety  
hook



Rope ø in mm	WLL single direct in kg	Item no.	Item no.	Item no.	Item no.
8	750	1117.01.08	1118.01.08	1121.01.08	1122.01.08
10	1300	1117.01.10	1118.01.10	1121.01.10	1122.01.10
12	2000	1117.01.12	1118.01.12	1121.01.12	1122.01.12
13	2100	1117.01.13	1118.01.13	1121.01.13	1122.01.13
14	2500	1117.01.14	1118.01.14	1121.01.14	1122.01.14
16	3300	1117.01.16	1118.01.16	1121.01.16	1122.01.16
19	4600	1117.01.18	1118.01.18	1121.01.18	1122.01.18
20	5000	1117.01.20	1118.01.20	1121.01.20	1122.01.20
22	6200	1117.01.22	1118.01.22	1121.01.22	1122.01.22
24	7300	1117.01.24	1118.01.24	1121.01.24	1122.01.24
26	8600	1117.01.26	1118.01.26	1121.01.26	1122.01.26
28	10000	1117.01.28	1118.01.28	1121.01.28	1122.01.28
32	13100	1117.01.32	1118.01.32	1121.01.32	1122.01.32
36	15700	1117.01.36	1118.01.36	-	1122.01.36
38	18500	1117.01.40	1118.01.40	-	-
44	25000	1117.01.44	1118.01.44	-	-
52	35000	1117.01.48	1118.01.48	-	-

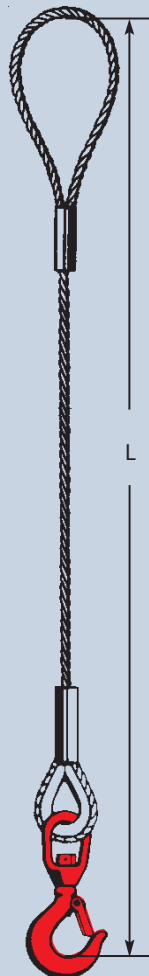
Higher load capacities available on request. Please contact us.



1133.  
Wire rope sling with  
pressed loop and  
swivel hook



1134.  
Wire rope sling with  
pressed loop and safety  
eye hook with swivel



1141.  
Wire rope sling master link  
and swivel hook



Rope $\varnothing$ in mm	WLL single direct in kg	Item no.	Item no.	Item no.
8	750	1133.01.08	1134.01.08	1141.01.08
10	1300	1133.01.10	1134.01.10	1141.01.10
12	2000	1133.01.12	1134.01.12	1141.01.12
13	2100	1133.01.13	1134.01.13	1141.01.13
14	2500	1133.01.14	1134.01.14	1141.01.14
16	3300	1133.01.16	1134.01.16	1141.01.16
19	4600	1133.01.18	1134.01.18	1141.01.18
20	5000	1133.01.20	1134.01.20	1141.01.20
22	6200	1133.01.22	1134.01.22	1141.01.22
24	7300	1133.01.24	1134.01.24	1141.01.24
26	8600	1133.01.26	1134.01.26	1141.01.26
28	10000	1133.01.28	1134.01.28	1141.01.28
32	13100	-	1134.01.32	-
36	15700	-	1134.01.36	-
38	18500	-	1134.01.40	-
44	25000	-	1134.01.44	-
52	35000	-	1134.01.48	-

Higher load capacities available on request. Please contact us.

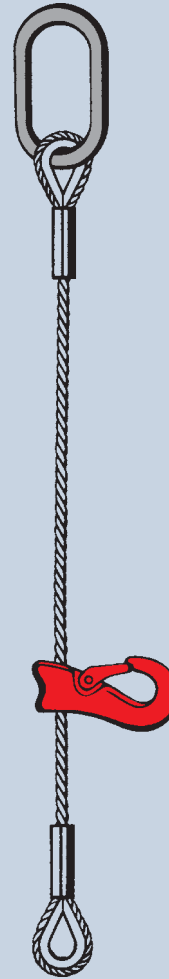
1142.  
Wire rope sling with  
master link and safety  
eye hook



1143.  
Wire rope sling with  
master link and safety  
eye hook with swivel



1144.  
Wire rope sling with  
master link, pressed  
thimble and choker hook



1146.  
Wire rope sling with  
master link and shackle



Rope $\phi$ in mm	WLL single direct in kg	Item no.	Item no.	Item no.	Item no.
8	750	1142.01.08	1143.01.08	1144.01.08	1146.01.08
10	1300	1142.01.10	1143.01.10	1144.01.10	1146.01.10
12	2000	1142.01.12	1143.01.12	1144.01.12	1146.01.12
13	2100	1142.01.13	1143.01.13	1144.01.13	1146.01.13
14	2500	1142.01.14	1143.01.14	1144.01.14	1146.01.14
16	3300	1142.01.16	1143.01.16	1144.01.16	1146.01.16
19	4600	1142.01.18	1143.01.18	1144.01.18	1146.01.18
20	5000	1142.01.20	1143.01.20	1144.01.20	1146.01.20
22	6200	1142.01.22	1143.01.22	1144.01.22	1146.01.22
24	7300	1142.01.24	1143.01.24	1144.01.24	1146.01.24
26	8600	1142.01.26	1143.01.26	-	1146.01.26
28	10000	1142.01.28	1143.01.28	-	1146.01.28
32	13100	1142.01.32	1143.01.32	-	1146.01.32
36	15700	1142.01.36	1143.01.36	-	1146.01.36
38	18500	1142.01.40	1143.01.40	-	1146.01.40
44	25000	1142.01.44	1143.01.44	-	1146.01.44
52	35000	1142.01.48	1143.01.48	-	1146.01.48

Higher load capacities available on request. Please contact us.

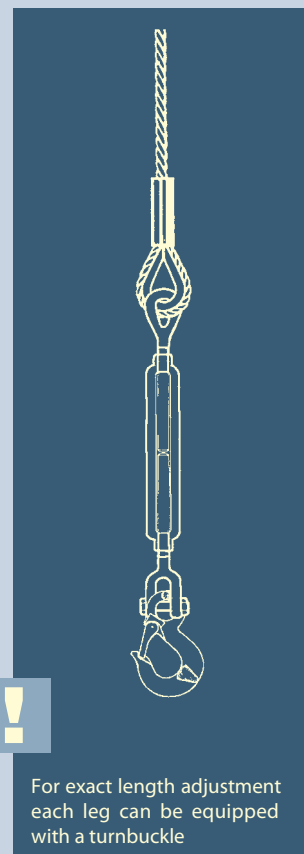
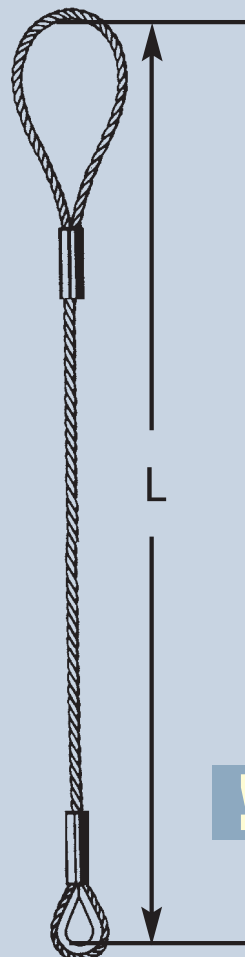
1148.  
Wire rope sling with  
master link and pressed  
thimble



1149.  
Wire rope sling with  
master link both ends



1170.  
Wire rope sling with  
pressed loop and pressed  
thimble



For exact length adjustment  
each leg can be equipped  
with a turnbuckle

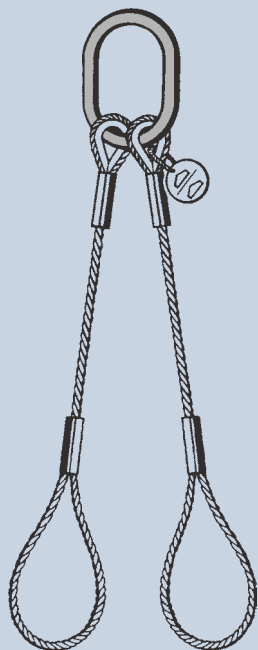
Rope ø in mm	WLL single direct in kg	Item no.	Item no.	Item no.
8	700	1148.01.08	1149.01.08	1170.01.08
10	1000	1148.01.10	1149.01.10	1170.01.10
12	2000	1148.01.12	1149.01.12	1170.01.12
14	2100	1148.01.13	1149.01.13	1170.01.13
14	2500	1148.01.14	1149.01.14	1170.01.14
16	2700	1148.01.16	1149.01.16	1170.01.16
18	3150	1148.01.18	1149.01.18	1170.01.18
20	4000	1148.01.20	1149.01.20	1170.01.20
22	5000	1148.01.22	1149.01.22	1170.01.22
24	6300	1148.01.24	1149.01.24	1170.01.24
26	7000	1148.01.26	1149.01.26	1170.01.26
28	8000	1148.01.28	1149.01.28	1170.01.28
32	11000	1148.01.32	1149.01.32	1170.01.32
36	14000	1148.01.36	1149.01.36	1170.01.36
40	17000	1148.01.40	1149.01.40	1170.01.40
44	21000	1148.01.44	1149.01.44	1170.01.44
48	25000	1148.01.48	1149.01.48	1170.01.48

Higher load capacities available on request. Please contact us.

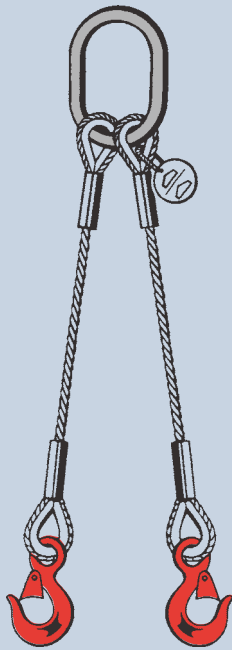


Wire rope slings according to DIN EN 13414-1 are manufactured and tested in accordance with the current requirements. Fittings and rope match exactly to guarantee the indicated load capacity. Strict quality control and clear marking ensure highest possible safety. Different configurations and lengths are available according to your individual requirements.

1214.  
2-leg wire rope sling  
with loops



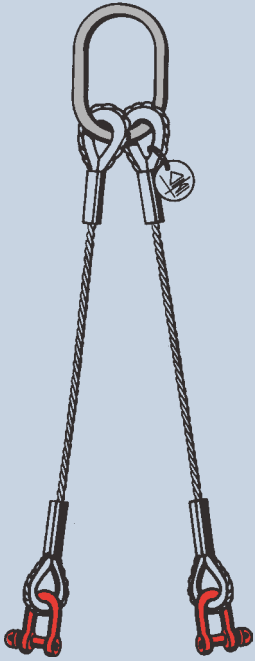
1215.  
2-leg wire rope sling  
with safety eye hook



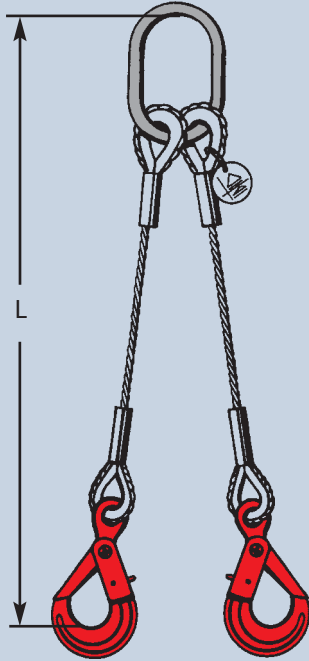
Rope $\varnothing$ in mm	Load capacity 2 leg in kg at angle 0-90°	Item no.	Item no.
8	1000	1214.01.08	1215.01.08
10	1830	1214.01.10	1215.01.10
12	2820	1214.01.12	1215.01.12
13	3000	1214.01.13	1215.01.13
14	3500	1214.01.14	1215.01.14
16	4600	1214.01.16	1215.01.16
19	6400	1214.01.18	1215.01.18
20	7000	1214.01.20	1215.01.20
22	8700	1214.01.22	1215.01.22
24	10300	1214.01.24	1215.01.24
26	12000	1214.01.26	1215.01.26
28	14000	1214.01.28	1215.01.28
32	18500	1214.01.32	1215.01.32

Higher load capacities available on request. Please contact us.

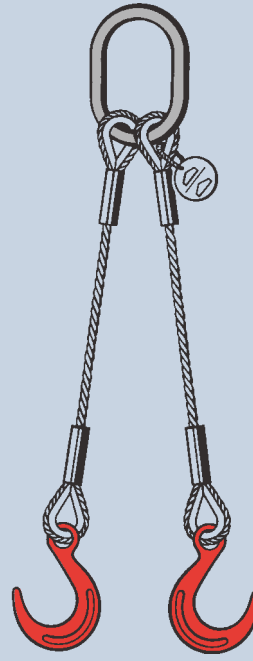
1216.  
2-leg wire rope sling  
with shackle



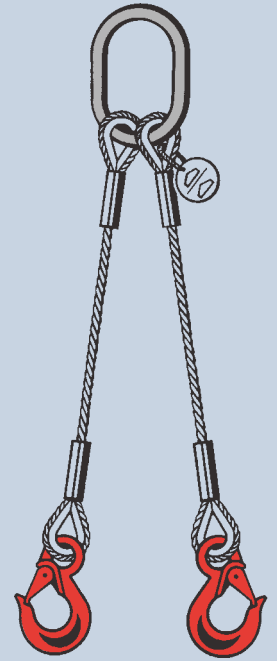
1217.  
2-leg wire rope sling  
with self-locking  
eye hook



1218.  
2-leg wire rope sling  
with foundry hook



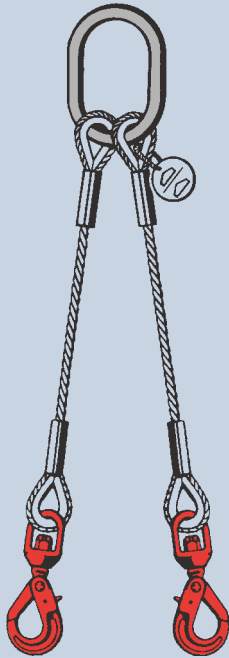
1219.  
2-leg wire rope sling  
with safety hook



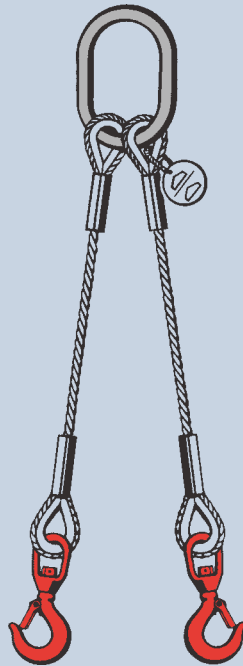
Rope $\varnothing$ in mm	Load capacity 2 leg in kg at angle 0-90°	Item no.	Item no.	Item no.	Item no.
8	1000	1216.01.08	1217.01.08	1218.01.08	1219.01.08
10	1830	1216.01.10	1217.01.10	1218.01.10	1219.01.10
12	2820	1216.01.12	1217.01.12	1218.01.12	1219.01.12
13	3000	1216.01.13	1217.01.13	1218.01.13	1219.01.13
14	3500	1216.01.14	1217.01.14	1218.01.14	1219.01.14
16	4600	1216.01.16	1217.01.16	1218.01.16	1219.01.16
19	6400	1216.01.18	1217.01.18	1218.01.18	1219.01.18
20	7000	1216.01.20	1217.01.20	1218.01.20	1219.01.20
22	8700	1216.01.22	1217.01.22	1218.01.22	1219.01.22
24	10300	1216.01.24	1217.01.24	1218.01.24	1219.01.24
26	12000	1216.01.26	1217.01.26	1218.01.26	1219.01.26
28	14000	1216.01.28	1217.01.28	1218.01.28	1219.01.28
32	18500	1216.01.32	1217.01.32	1218.01.32	1219.01.32



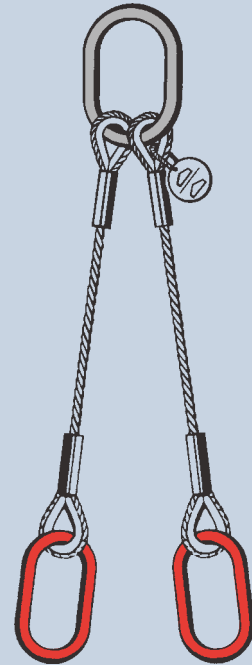
1224.  
2-leg wire rope sling  
with swivel hook



1225.  
2-leg wire rope sling  
with safety eye hook  
with swivel



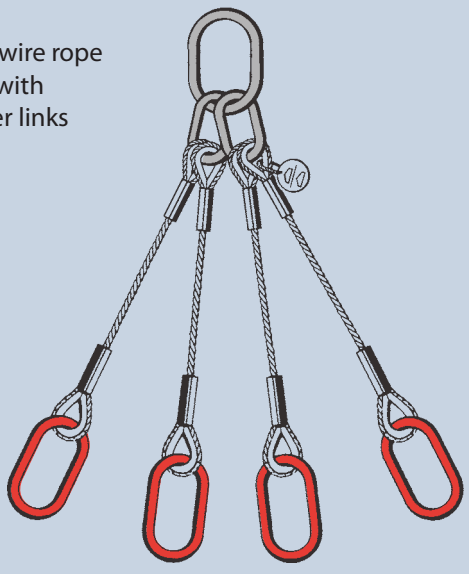
1226.  
2-leg wire rope sling  
with master links



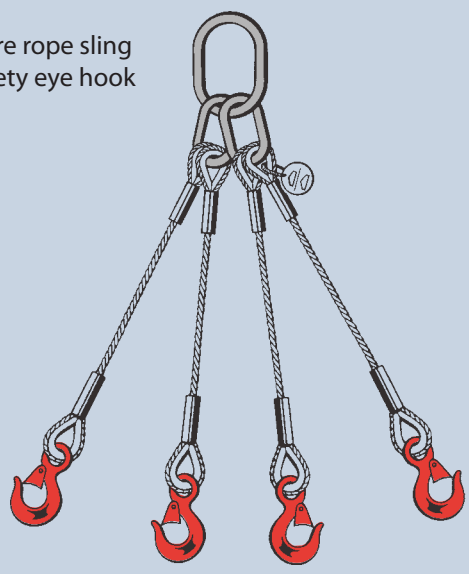
Rope $\varnothing$ in mm	Load capacity 2 leg in kg at angle 0-90°	Item no.	Item no.	Item no.
8	1000	1224.01.08	1225.01.08	1226.01.08
10	1830	1224.01.10	1225.01.10	1226.01.10
12	2820	1224.01.12	1225.01.12	1226.01.12
13	3000	1224.01.13	1225.01.13	1226.01.13
14	3500	1224.01.14	1225.01.14	1226.01.14
16	4600	1224.01.16	1225.01.16	1226.01.16
19	6400	1224.01.18	1225.01.18	1226.01.18
20	7000	1224.01.20	1225.01.20	1226.01.20
22	8700	1224.01.22	1225.01.22	1226.01.22
24	10300	1224.01.24	1225.01.24	1226.01.24
26	12000	1224.01.26	1225.01.26	1226.01.26
28	14000	1224.01.28	1225.01.28	1226.01.28
32	18500	1224.01.32	1225.01.32	1226.01.32



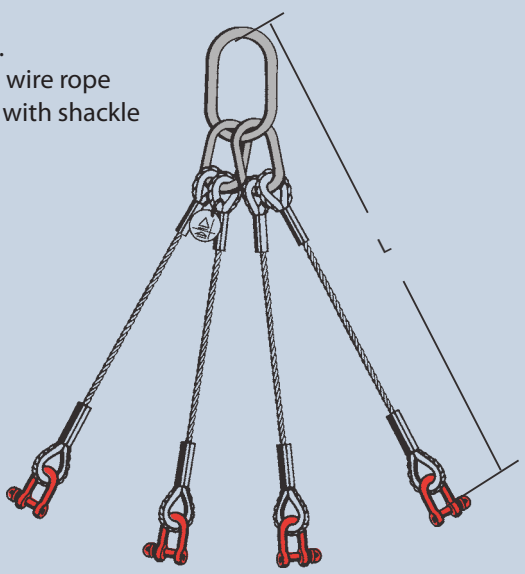
1426.  
4-leg wire rope  
sling with  
master links



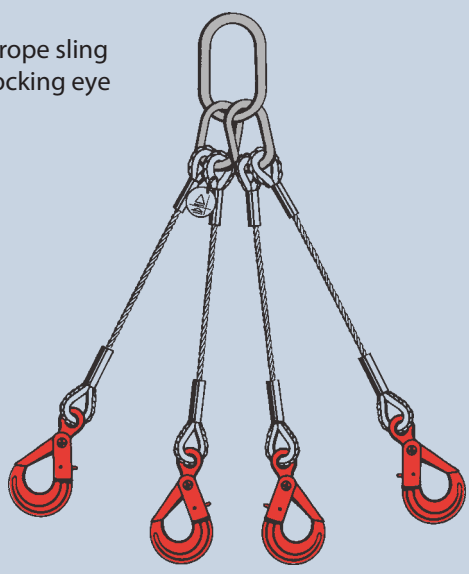
1415.  
4-leg wire rope sling  
with safety eye hook



1416.  
4-leg wire rope  
sling with shackle



1417.  
4-leg wire rope sling  
with self-locking eye  
hook

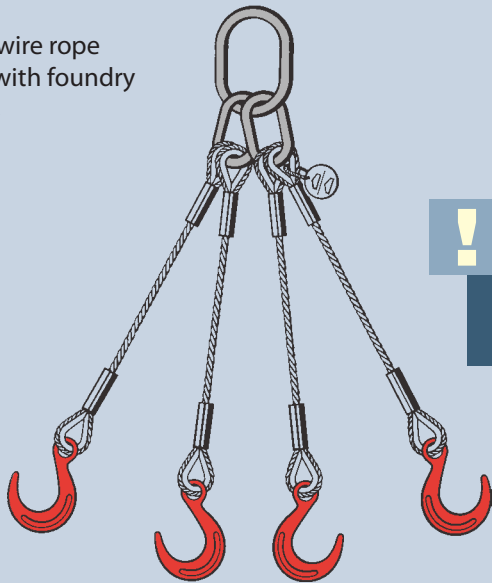


Rope ø in mm	Load capacity 4 leg in kg at angle 0-90°	Item no.	Item no.
8	1500	1426.01.08	1416.01.08
10	2700	1426.01.10	1416.01.10
12	4200	1426.01.12	1416.01.12
13	4500	1426.01.14	1416.01.14
14	5250	0000.00.00	0000.00.00
16	6900	1426.01.16	1416.01.16
19	9700	1426.01.18	1416.01.18
20	10500	1426.01.20	1416.01.20
22	13000	1426.01.22	1416.01.22
24	15300	1426.01.24	1416.01.24
26	18000	1426.01.26	1416.01.26
28	21000	1426.01.28	1416.01.28
32	27500	1426.01.32	1416.01.32

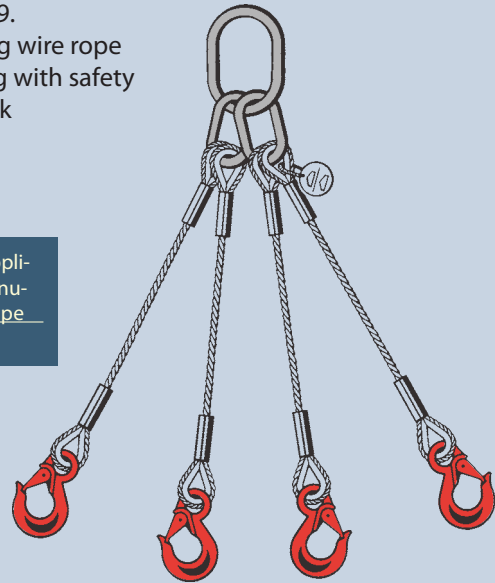
Rope ø in mm	Load capacity 4 leg in kg at angle 0-90°	Item no.	Item no.
8	1500	1415.01.08	1417.01.08
10	2700	1415.01.10	1417.01.10
12	4200	1415.01.12	1417.01.12
13	4500	0000.00.00	0000.00.00
14	5250	1415.01.14	1417.01.14
16	6900	1415.01.16	1417.01.16
19	9700	1415.01.18	1417.01.18
20	10500	1415.01.20	1417.01.20
22	13000	1415.01.22	1417.01.22
24	15300	1415.01.24	1417.01.24
26	18000	1415.01.26	1417.01.26
28	21000	1415.01.28	1417.01.28
32	27500	1415.01.32	1417.01.32

Higher load capacities available on request. Please contact us.

1418.  
4-leg wire rope  
sling with foundry  
hooks

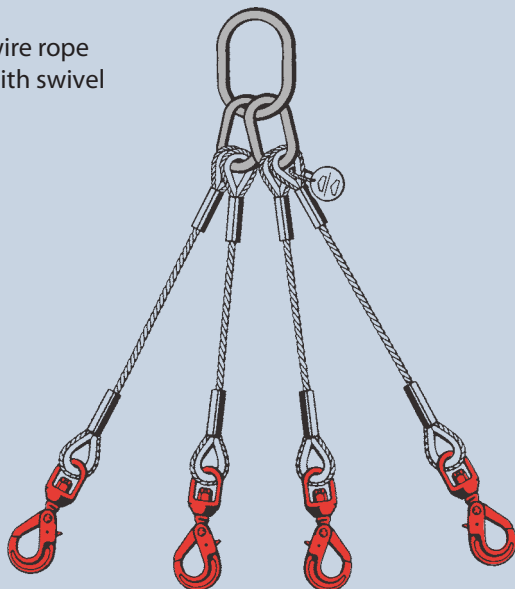


1419.  
4-leg wire rope  
sling with safety  
hook

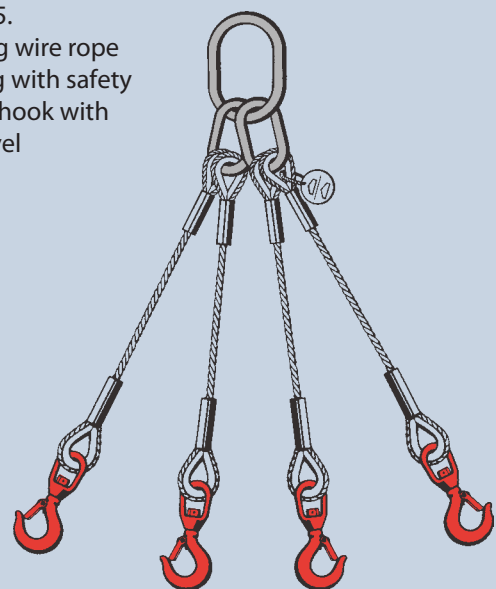


**!** For your individual application we will also manufacture 3-leg wire rope slings.

1424.  
4-leg wire rope  
sling with swivel  
hook



1425.  
4-leg wire rope  
sling with safety  
eye hook with  
swivel

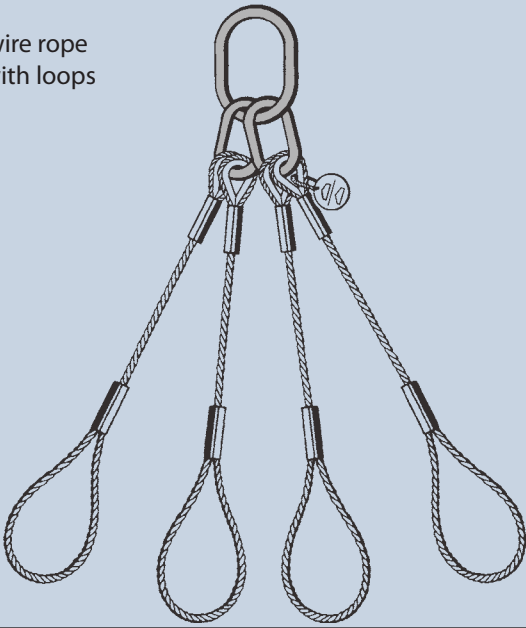


Rope ø in mm	Load capacity 4 leg in kg at angle 0-90°	Item no.	Item no.
8	1500	1418.01.08	1424.01.08
10	2700	1418.01.10	1424.01.10
12	4200	1418.01.12	1424.01.12
13	4500	0000.00.00	0000.00.00
14	5250	1418.01.14	1424.01.14
16	6900	1418.01.16	1424.01.16
19	9700	1418.01.18	1424.01.18
20	10500	1418.01.20	1424.01.20
22	13000	1418.01.22	1424.01.22
24	15300	1418.01.24	1424.01.24
26	18000	1418.01.26	1424.01.26
28	21000	1418.01.28	1424.01.28
32	27500	1418.01.32	1424.01.32

Rope ø in mm	Load capacity 4 leg in kg at angle 0-90°	Item no.	Item no.
8	1500	1419.01.08	1425.01.08
10	2700	1419.01.10	1425.01.10
12	4200	1419.01.12	1425.01.12
13	4500	0000.00.00	0000.00.00
14	5250	1419.01.14	1425.01.14
16	6900	1419.01.16	1425.01.16
19	9700	1419.01.18	1425.01.18
20	10500	1419.01.20	1425.01.20
22	13000	1419.01.22	1425.01.22
24	15300	1419.01.24	1425.01.24
26	18000	1419.01.26	1425.01.26
28	21000	1419.01.28	1425.01.28
32	27500	1419.01.32	1425.01.32

Higher load capacities available on request. Please contact us.

1414.  
4-leg wire rope  
sling with loops



Rope $\phi$ in mm	Load capacity 4 leg in kg at angle 0-90°	Item no.
8	1500	1414.01.08
10	2700	1414.01.10
12	4200	1414.01.12
13	4500	1414.01.14
14	5250	1414.01.14
16	6900	1414.01.16
19	9700	1414.01.18
20	10500	1414.01.20
22	13000	1414.01.22
24	15300	1414.01.24
26	18000	1414.01.26
28	21000	1414.01.28
32	27500	1414.01.32







Heavy grommet slings as used on a drilling rig.

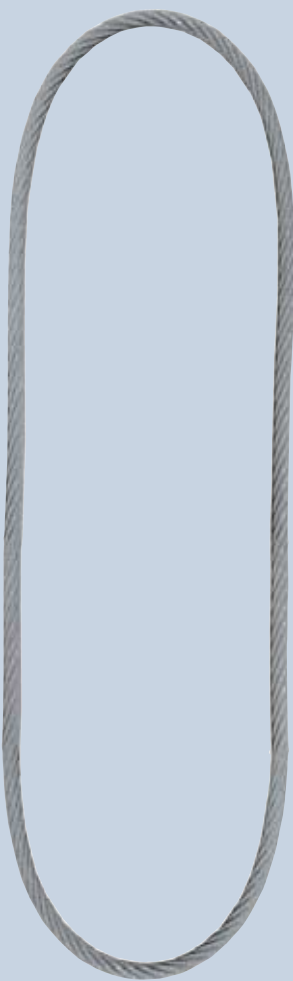
Photo: Gebr. Henschel



1197.

Highly flexible cable laid wire rope sling as endless grommet, according to DIN EN 13414-3

Wire rope construction with steel core, tensile strength 1960 N/mm<sup>2</sup>, minimum bending radius: 2 x ø

**Table G.1 — Working load limits for cable-laid endless slings (grommets) made of wire ropes with steel core of classes 6x19 and 6x36**



Angle to vertical	Endless sling (Grommet)	
	0°	0°
	direct	choke hitch
Nominal rope diameter		
mm	t	t
<b>24</b>	9,00	7,00
<b>27</b>	11,5	9,00
<b>30</b>	14,0	11,0
<b>33</b>	17,0	13,5
<b>36</b>	20,0	16,0
<b>39</b>	23,5	19,0
<b>42</b>	27,0	21,5
<b>48</b>	35,5	28,5
<b>54</b>	45,0	36,0
<b>60</b>	55,5	44,5
<b>66</b>	69,0	55,0
<b>72</b>	84,0	68,0
<b>78</b>	102	81,0
<b>84</b>	121	97,0
<b>90</b>	144	115
<b>96</b>	168	135
<b>102</b>	196	157
<b>108</b>	227	182
<b>114</b>	262	210
calculation factors	2	1,6

Rope ø 24-60 mm: Safety factor 5  
 Rope ø 66-132 mm: Safety factor 4,9-3

Rope ø up to 470 mm available on request. Please contact us.



## Grade 80



This mark identifies the highly dynamic, high-strength round steel chain with manufacturer's number. (1) means here that as first manufacturer RUD received the official approval for production of round steel chains according to DIN 5687-7 from German BG (Employers' Liability Insurance Association) in 1971. This mark can be found on every tenth chain link. Special product feature : Considerably improved corrosion protection compared with bright DIN versions.



V  
A Special marking for foolproof, highly dynamic chain slings , which are manufactured with tighter tolerances (dimension bi). Combined with RUD components an absolutely foolproof chain connection is guaranteed.

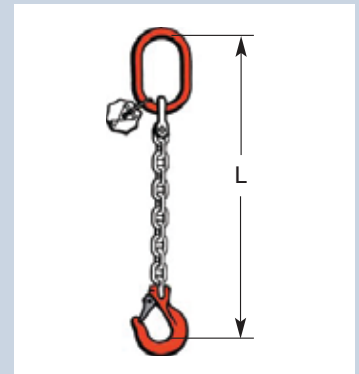
V  
A Marking on every chain link. Special product feature : longer service life due to improved wear area.

This lot number can be found on every highly dynamic round steel chain once per running metre. It indicates the manufacturing and proof test data of the chain. Special product feature : Up to 20% harder than a DIN chain sling.



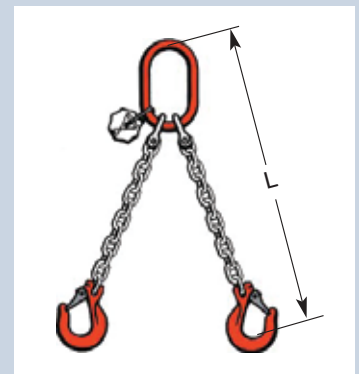
Chain size in mm	Load capacity 1-leg single direct in t	Item no.
7	1,5	6101.00.07
8	2	6101.00.08
10	3,2	6101.00.10
13	5,4	6101.00.13
16	8	6101.00.16
20	12,5	6101.00.20
22	15,5	6101.00.22
26	21,7	6101.00.26

6101.  
Chain sling, 1-leg,  
with safety hook  
with latch



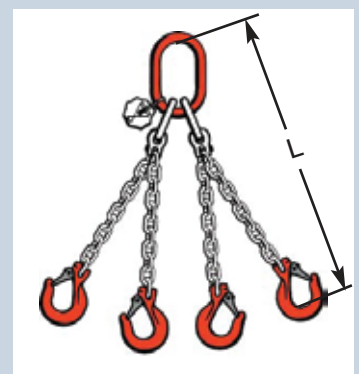
Chain size in mm	Load capacity 2-leg single direct in t 0-90°	Item no.
7	2,1	6201.00.07
8	2,8	6201.00.08
10	4,5	6201.00.10
13	7,6	6201.00.13
16	11,3	6201.00.16
20	17	6201.00.20
22	21,5	6201.00.22
26	30,2	6201.00.26

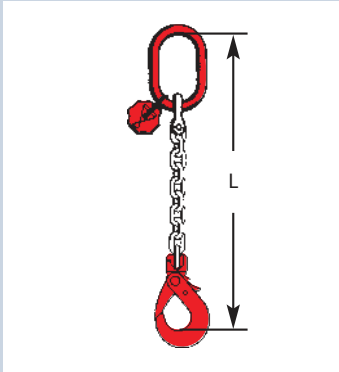
6201.  
Chain sling, 2-leg,  
with safety hook  
with latch



Chain size in mm	Load capacity 4-leg single direct in t 0-90°	Item no.
7	3,1	6401.00.07
8	4,2	6401.00.08
10	6,7	6401.00.10
13	11,3	6401.00.13
16	17	6401.00.16
20	26,8	6401.00.20
22	31,5	6401.00.22
26	45	6401.00.26

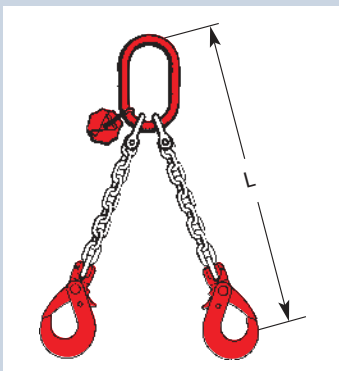
6401.  
Chain sling, 4-leg,  
with safety hook  
with latch





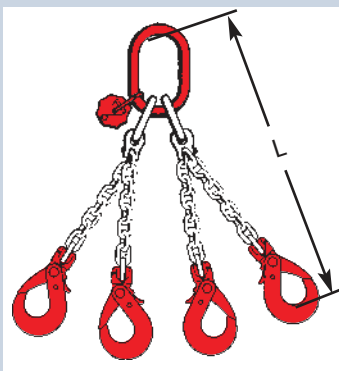
6108.  
Chain sling, 1-leg,  
with clevis self locking  
hook

Chain size in mm	Load capacity 1-leg single direct in t	Item no.
7	1,5	6108.00.07
8	2	6108.00.08
10	3,2	6108.00.10
13	5,4	6108.00.13
16	8	6108.00.16
20	12,5	6108.00.20
22	15,5	6108.00.22
26	21,7	6108.00.26



6208.  
Chain sling, 2-leg,  
with clevis self locking  
hook

Chain size in mm	Load capacity 2-leg single direct in t 0-90°	Item no.
7	2,1	6208.00.07
8	2,8	6208.00.08
10	4,5	6208.00.10
13	7,6	6208.00.13
16	11,3	6208.00.16
20	17	6208.00.20
22	21,5	6208.00.22
26	30,2	6208.00.26



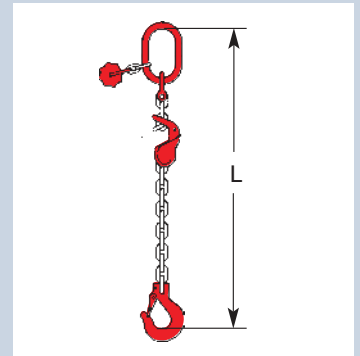
6408.  
Chain sling, 4-leg,  
with clevis self locking  
hook

Chain size in mm	Load capacity 4-leg single direct in t 0-90°	Item no.
7	3,1	6408.00.07
8	4,2	6408.00.08
10	6,7	6408.00.10
13	11,3	6408.00.13
16	17	6408.00.16
20	26,8	6408.00.20
22	31,5	6408.00.22
26	45	6408.00.26

Chain size in mm	Load capacity 1-leg single direct in t	Item no.
7	1,5	6101.01.07
8	2	6101.01.08
10	3,2	6101.01.10
13	5,4	6101.01.13
16	8	6101.01.16
20	12,5	6101.01.20
22	15,5	6101.01.22
26	21,7	6101.01.26

6101.01.

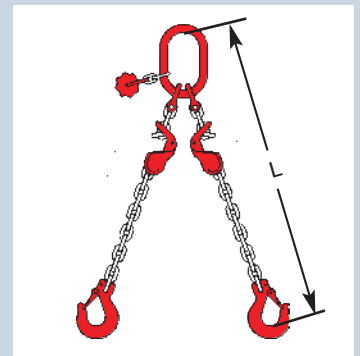
Chain sling, 1-leg, with shortening claw and safety hook with latch



Chain size in mm	Load capacity 2-leg single direct in t 0-90°	Item no.
7	2,1	6201.02.07
8	2,8	6201.02.08
10	4,5	6201.02.10
13	7,6	6201.02.13
16	11,3	6201.02.16
20	17	6201.02.20
22	21,5	6201.02.22
26	30,2	6201.02.26

6201.02.

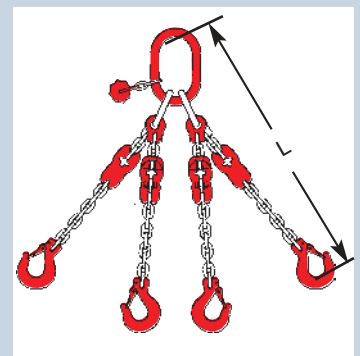
Chain sling, 2-leg, with shortening claw and safety hook with latch

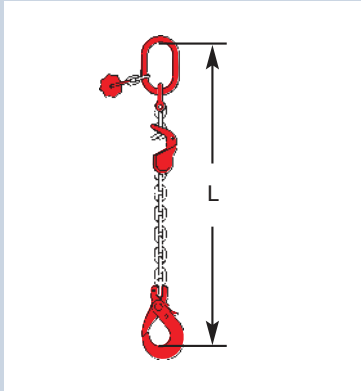


Chain size in mm	Load capacity 4-leg single direct in t 0-90°	Item no.
7	3,1	6401.04.07
8	4,2	6401.04.08
10	6,7	6401.04.10
13	11,3	6401.04.13
16	17	6401.04.16
20	26,8	6401.04.20
22	31,5	6401.04.22
26	45	6401.04.26

6401.04.

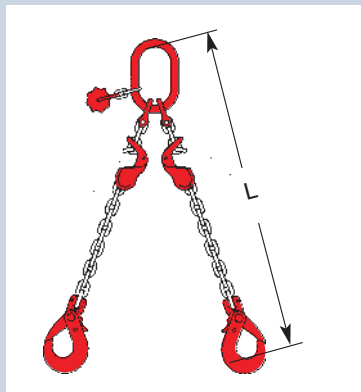
Chain sling, 4-leg, with shortening claw and safety hook with latch





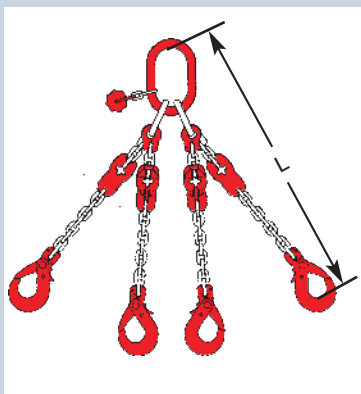
**6108.01.**  
Chain sling, 1-leg,  
with shortening claw  
and clevis self locking  
hook

Chain size in mm	Load capacity 1-leg single direct in t	Item no.
7	1,5	6108.01.07
8	2	6108.01.08
10	3,2	6108.01.10
13	5,4	6108.01.13
16	8	6108.01.16
20	12,5	6108.01.20
22	15,5	6108.01.22
26	21,7	6108.01.26



**6208.02.**  
Chain sling, 2-leg,  
with shortening claw  
and clevis self locking  
hook

Chain size in mm	Load capacity 2-leg single direct in t 0-90°	Item no.
7	2,1	6208.02.07
8	2,8	6208.02.08
10	4,5	6208.02.10
13	7,6	6208.02.13
16	11,3	6208.02.16
20	17	6208.02.20
22	21,5	6208.02.22
26	30,2	6208.02.26



**6408.04.**  
Chain sling, 4-leg,  
with shortening claw  
and clevis self locking  
hook

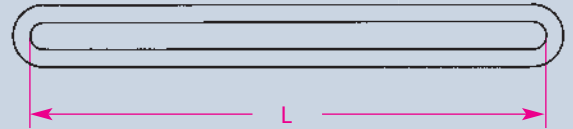
Chain size in mm	Load capacity 4-leg single direct in t 0-90°	Item no.
7	3,1	6408.04.07
8	4,2	6408.04.08
10	6,7	6408.04.10
13	11,3	6408.04.13
16	17	6408.04.16
20	26,8	6408.04.20
22	31,5	6408.04.22
26	45	6408.04.26



### 4503. Round Slings



*Specify length L when requesting prices!*



SWL in kg	COLOUR Code	PART No.
1000	Violet	4503.00.25
2000	Green	4503.00.50
3000	Yellow	4503.00.75
4000	Grey	4503.01.00
5000	Red	4503.01.25
6000	Brown	4503.01.50
8000	Blue	4503.02.00
10000	Orange	4503.02.50
12000	Orange	4503.03.00
Higher Capacities Available on Request		

### 4436. Flat webbing slings

Lifting sling with 2 loop ends



Width mm	Colour Code	Single Ply	Part No.	Double Ply	Part No.	4 Ply	Part No.
25	Violet	500 kg	4436.10.25	1000 kg	4436.20.25	2000kg	4436.40.25
50	Green	1000 kg	4436.10.50	2000 kg	4436.20.50	4000 kg	4436.40.50
75	Yellow	1500 kg	4436.10.75	3000 kg	4436.20.75	6000 kg	4436.40.75
100	Grey	2000 kg	4436.11.00	4000 kg	4436.21.00	8000 kg	4436.41.00
125	Red	2500 kg	4436.11.25	5000 kg	4436.21.25	10000 kg	4436.41.25
150	Brown	3000 kg	4436.11.50	6000 kg	4436.21.50	12000 kg	4436.41.50
200	Blue	4000 kg	4436.12.00	8000 kg	4436.22.00	16000 kg	4436.42.00
250	Orange	5000 kg	4436.12.50	10000 kg	4436.22.50	20000 kg	4436.42.50
300	Orange	6000 kg	4436.13.00	12000 kg	4436.23.00	24000 kg	4436.43.00
Safety Factor 7 : 1							

Carl Stahl-Roundsling multi-leg system with safety hook





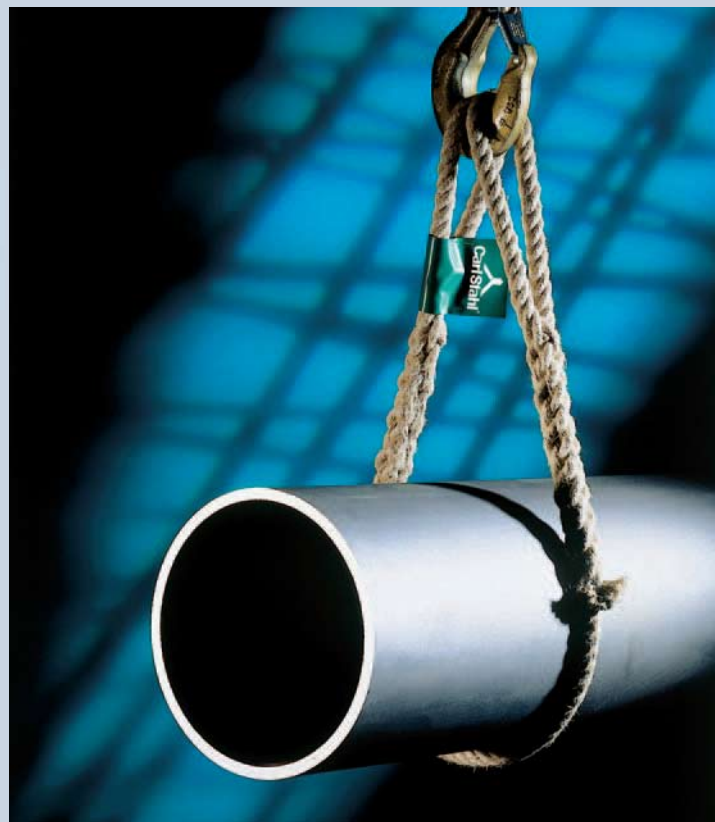
*Other hook types available on request!*

### 3500. Spliced hemp rope slings

Spliced loops at both ends,  
loop length 15 times the rope diameter.  
Made of long fibre hemp rope.





Rope- $\varnothing$ in mm	WLL in kg		Part No.: 3500.
	single direct 	single choked 	
16	212	170	3500.00.16
20	315	250	3500.00.20
24	450	355	3500.00.24
28	630	500	3500.00.28
32	800	630	3500.00.32
36	1060	850	3500.00.36
40	1250	1000	3500.00.40
48	1800	1400	3500.00.48



### 3600. Spliced polyamide (nylon) rope sling

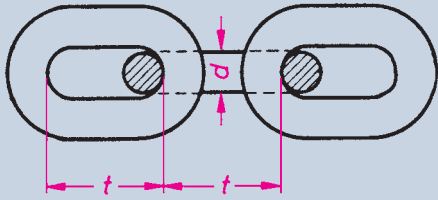
Spliced loops at both ends,  
loop length approximately 15 times the rope diameter.  
Made of polyamide rope.



Rope- $\varnothing$ in mm	WLL in kg		Part No.: 3600.
	single direct 	single choked 	
16	560	450	3600.00.16
20	850	670	3600.00.20
24	1250	1000	3600.00.24
28	1700	1320	3600.00.28
32	2120	1700	3600.00.32
36	2650	2120	3600.00.36
40	3150	2500	3600.00.40
48	4500	3550	3600.00.48

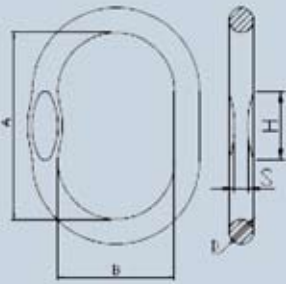


6000. Sling chain EN 818 grade 8, tested.



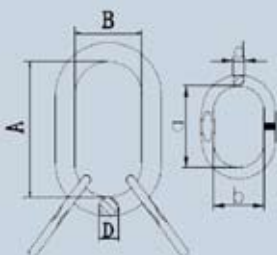
Dimensions		WLL kg	Weight kg/m	Part No.: 6000.
Size d	Inner length t			
7	21	1500	0.9	6002.00.07
8	24	2000	1.4	6002.00.08
10	30	3150	2.2	6002.00.10
13	39	5300	3.7	6002.00.13
16	48	8000	5.7	6002.00.16
20	60	12500	8.75	6002.00.18
22	66	15000	10.9	6002.00.22

6020. Master Links



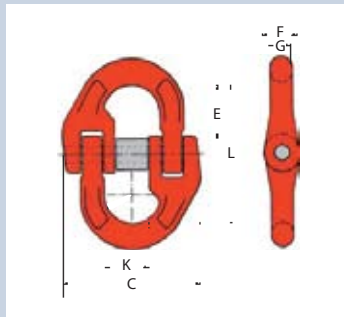
Code	Weight (Kg)	WLL (t)	A	B	D	S	H	Part No.
CS16ML	0.6	3.8	120	70	16	9	70	6020.00.16
CS20MLL	1.25	5.8	170	90	20	11	70	6020.10.20
CS22ML	1.53	7.6	170	90	22	11	70	6020.00.22
CS22MLL	1.83	6.4	210	110	22	12	70	6020.10.22
CS25ML	2.21	10	190	100	25	12	80	6020.00.25
CS28ML	3.06	12.7	210	110	28	13	80	6020.00.28
CS28MLL	3.81	10.5	270	140	28	15	70	6020.10.28
CS32ML	5.05	15.2	270	140	32	15	70	6020.00.32
CS38ML	7.3	25.1	270	140	38	17	55	6020.00.38
CS38MLL	10.78	17	420	220	38	20	55	6020.10.38
CS45ML	12.2	34	320	170	45	20	60	6020.00.45
CS50ML	17.65	40	380	200	50	24	-	6020.00.50
CS60ML	28.85	58	430	220	60	-	-	6020.00.60
CS64ML	30.7	72.6	406	203	63.5	-	-	6020.00.64
CS76ML	52	103	457	229	76.2	-	-	6020.00.76

6030. Master Links & Assemblies



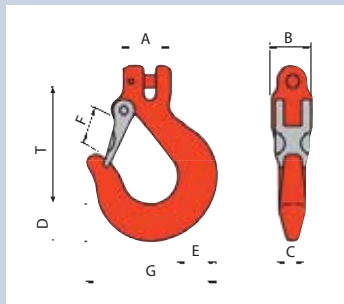
Code	Weight (Kg)	WLL (t)	A	B	D	a	b	d	Part No.
CS20QA	2.41	5.8	170	90	20	120	70	16	6030.00.20
CS22QA	3.77	7.6	170	90	22	150	80	20	6030.00.22
CS22QAL	3.3	5.8	270	140	22	150	75	16	6030.10.22
CS25QA	4.45	10	190	100	25	150	80	20	6030.00.25
CS28QA	6.12	12.7	210	110	28	170	90	22	6030.00.28
CS32QA	9.47	15.2	270	140	32	190	100	25	6030.00.32
CS38QA	17.4	25	270	140	38	270	140	32	6030.00.38
CS45QA	26.76	34	320	170	45	270	140	38	6030.00.45
CS50QA	33.2	40	380	200	50	270	140	38	6030.00.50

6556.  
Chain connector



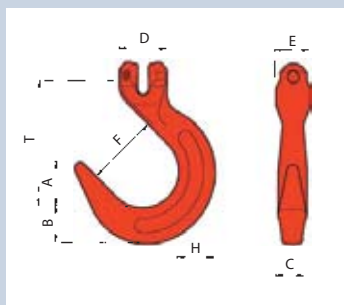
Chain size in mm	Load capacity in kg	Dimensions in mm						Weight in kg	Item no.
		C	E	F	G	K	L		
8	2000	52	22	13	8	20	58	0,07	6556.00.10
10	3150	67	26	17	10	26	68	0,25	6556.00.20
13	5300	81	32	23	15	30	86	0,35	6556.00.32
16	8000	100	41	28	20	34	105	0,68	6556.00.50
20	12500	114	45	34	23	41	118	1,10	6556.00.80
22	15000	139	52	37	27	49	137	1,70	6556.01.25

6550.  
Clevis hook with latch



Chain size in mm	Load capacity in kg	Dimensions in mm								Weight in kg	Item no.
		A	B	C	D	E	F	G	T		
7 - 8	2000	38	28	20	28	22	30	96	97	0,8	6550.00.08
10	3150	46	32	24	30	32	42	24	108	1,39	6550.00.10
13	5300	55	37	22	37	32	48	32	126	2,43	6550.00.13
16	8000	68	40	30	52	36	47	36	160	4,05	6550.00.16
20	12500	78	49	36	77	48	71	47	190	8,00	6550.00.20

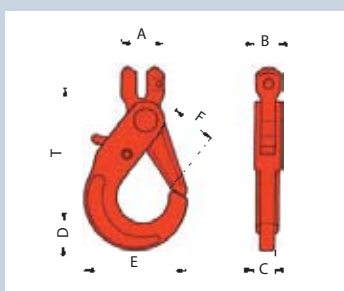
6559.  
Foundry hook WH



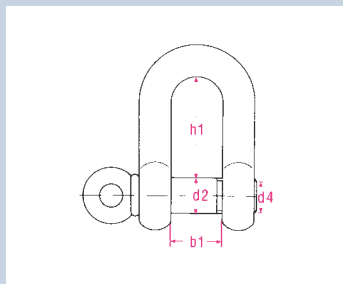
Chain size in mm	Load capacity in kg	Dimensions in mm								Weight in kg	Item no.	
		A	B	C	D	E	F	G	H			T
7 - 8	2000	40	29	26	40	29	64	26	30	115	0,9	6559.00.08
10	3150	46	37	30	50	36	76	30	37	130	1,7	6559.00.10
13	5300	51	45	37	64	46	90	37	51	168	3	6559.00.13
16	8000	64	56	40	75	56	102	40	58	190	5,7	6559.00.16
18	10000	-	54	51	-	-	114	-	-	218	8,8	6559.00.18
22	15000	-	60	56	-	-	124	-	-	237	12	6559.00.22

Also called container hook. With considerably larger opening but without safety latch. Only to be used where unintentional unhooking is impossible. Not allowed for overhead lifting as it does not comply with the EEC Machinery Directive 89/392/EWG I/4.4.1.

6554.  
Self-locking hook



Chain size in mm	Load capacity in kg	Dimensions in mm						Weight in kg	Item no.	
		A	B	C	D	E	F			T
7 - 8	2000	36	24	21	25	88	38	120	0,8	6554.01.08
10	3150	46	25	27	32	108	47	140	1,5	6554.01.10
13	5300	59	32	32	40	138	55	181	2,8	6554.01.13
16	8000	76	41	39	50	165	74	276	5,8	6554.01.16
20	12500	80	44	49	52	187	88	286	10	6554.01.20

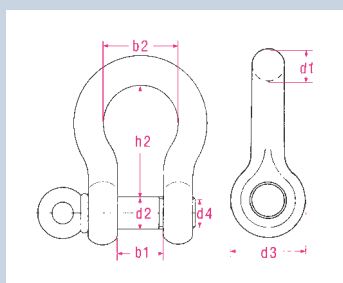


5630.

High strength dee shackle with screw pin, according to EN 13889, grade 6

Minimum breaking load is 6 times the WLL (working load limit), surface galvanised

Load capacity in kg	Nominal size in inches	Dimensions in mm								Weight in kg	Item no.
		d1	d2	d3	Inches d4	b1	b2	h1	h2		
500	1/4	6,5	8	17	5/16	12	20	-	28	0,05	5630.00.05
750	5/16	8	10	21	3/8	13	21	26	31	0,09	5630.00.07
1000	3/8	10	11	25	7/16	16	26	31	36	0,14	5630.00.10
1500	7/16	11	13	27	1/2	18	29	36	42	0,19	5630.00.15
2000	1/2	13	16	30	5/8	21	33	41	48	0,32	5630.00.20
3250	5/8	16	19	40	3/4	27	43	51	60	0,54	5630.00.32
4750	3/4	19	22	48	7/8	32	51	60	71	0,87	5630.00.47
6500	7/8	22	25	54	1	36	58	71	84	1,34	5630.00.65
8500	1	25	29	60	1 1/8	43	68	81	95	2,08	5630.00.85
9500	1 1/8	29	32	67	1 1/4	46	74	90	108	2,77	5630.00.95
12000	1 1/4	32	35	76	1 3/8	52	82	100	119	3,72	5630.01.20
13500	1 3/8	35	38	84	1 1/2	57	92	113	133	5,14	5630.01.35
17000	1 1/2	38	41	92	1 5/8	60	98	124	146	6,85	5630.01.70
25000	1 3/4	44	51	110	2	73	127	146	178	11,45	5630.02.50
35000	2	51	57	127	2 1/4	83	146	171	197	16,86	5630.03.50
55000	2 1/2	63	70	152	2 3/4	105	184	203	267	32,65	5630.05.50



5650.

High strength bow shackle with screw pin, according to EN 13889, grade 6

Minimum breaking load is 6 times the WLL (working load limit), surface galvanised

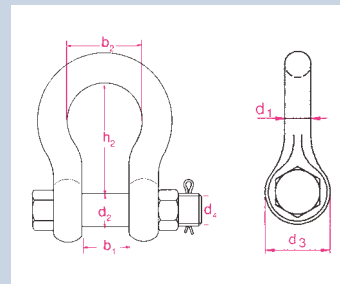
Load capacity in kg	Nominal size in inches	Dimensions in mm								Weight in kg	Item no.
		d1	d2	d3	Inches d4	b1	b2	h1	h2		
500	1/4	6,5	8	17	5/16	12	20	-	28	0,05	5650.00.05
750	5/16	8	10	21	3/8	13	21	26	31	0,1	5650.00.07
1000	3/8	10	11	25	7/16	16	26	31	36	0,14	5650.00.10
1500	7/16	11	13	27	1/2	18	29	36	42	0,19	5650.00.15
2000	1/2	13	16	30	5/8	21	33	41	48	0,36	5650.00.20
3250	5/8	16	19	40	3/4	27	43	51	60	0,63	5650.00.32
4750	3/4	19	22	48	7/8	32	51	60	71	1,01	5650.00.47
6500	7/8	22	25	54	1	36	58	71	84	1,5	5650.00.65
8500	1	25	29	60	1 1/8	43	68	81	95	2,21	5650.00.85
9500	1 1/8	29	32	67	1 1/4	46	74	90	108	3,16	5650.00.95
12000	1 1/4	32	35	76	1 3/8	52	82	100	119	4,31	5650.01.20
13500	1 3/8	35	38	84	1 1/2	57	92	113	133	5,55	5650.01.35
17000	1 1/2	38	41	92	1 5/8	60	98	124	146	7,43	5650.01.70
25000	1 3/4	44	51	110	2	73	127	146	178	12,84	5650.02.50
35000	2	51	57	127	2 1/4	83	146	171	197	18,15	5650.03.50
55000	2 1/2	63	70	152	2 3/4	105	184	203	267	37,6	5650.05.50



5660.

High strength bow shackle with bolt, nut and cotter pin according to EN 13889, grade 6

Minimum breaking load is 6 times the WLL (working load limit), surface galvanised

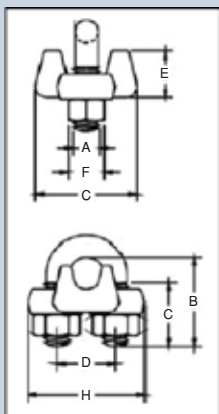


Load capacity in kg	Nominal size in inches	Dimensions in mm							Weight in kg	Item no.
		d1	d2	d3	Inches d4	b1	b2	h2		
1000	3/8	10	12	26	1/2	16	26	36	0,16	5660.00.10
2000	1/2	13	16	30	5/8	21	33	48	0,42	5660.00.20
3250	5/8	16	19	40	3/4	27	43	60	0,74	5660.00.32
4750	3/4	19	22	48	7/8	32	51	71	1,18	5660.00.47
6500	7/8	22	25	54	1	36	58	84	1,77	5660.00.65
8500	1	25	29	60	1 1/8	43	68	95	2,58	5660.00.85
9500	1 1/8	29	32	67	1 1/4	46	74	108	3,66	5660.00.95
12000	1 1/4	32	35	76	1 3/8	52	82	119	4,91	5660.01.20
13500	1 3/8	35	38	84	1 1/2	57	92	133	6,54	5660.01.35
17000	1 1/2	38	41	92	1 5/8	60	98	146	8,19	5660.01.70
25000	1 3/4	44	51	110	2	73	127	178	14,22	5660.02.50
35000	2	51	57	127	2 1/4	83	146	197	19,85	5660.03.50
55000	2 1/2	63	70	152	2 3/4	105	184	267	39,59	5660.05.50
85000	3	74	85	162	2 7/8	139	196	330	62,5	5660.08.50



5830. Galvanised Drop Forged Wire Rope Grips

Rope Size		Dimensions (in.)									Part No.
(in.)	(mm)	A	B	C	D	E	F	G	H		
1/4	6-7	.31	1.03	.50	.75	.66	.56	1.19	1.43	5830.00.06	
5/16	8	.38	1.38	.75	.88	.73	.69	1.31	1.66	5830.00.08	
3/8	9-10	.44	1.50	.75	1.00	.91	.75	1.63	1.94	5830.00.10	
1/2	12-13	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28	5830.00.13	
9/16	14.15	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50	5830.00.14	
5/8	16	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50	5830.00.16	
3/4	18-20	.62	2.75	1.44	1.50	1.39	1.06	2.25	2.84	5830.00.19	
7/8	20	.75	3.12	1.62	1.75	1.58	1.25	2.44	3.16	5830.00.22	
1	24-26	.75	3.50	1.81	1.88	1.77	1.25	2.63	3.47	5830.00.26	
1-1/8	28-30	.75	3.88	2.00	2	1.91	1.25	2.81	3.59	5830.00.28	
1-1/4	32-34	.88	4.44	2.22	2.34	2.17	1.44	3.13	4.13	5830.00.32	
1-3/8	36	.88	4.44	2.22	2.34	2.31	1.44	3.13	4.19	5830.00.36	
1-1/2	38	.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44	5830.00.38	
1-3/4	44-46	1.13	5.75	2.75	3.06	2.92	1.81	3.81	5.24	5830.00.44	
2	48-52	1.25	6.44	3.00	3.38	3.03	2.00	4.44	5.88	5830.00.52	
2-1/4	56-58	1.25	7.13	3.19	3.88	3.19	2.00	4.56	6.38	5830.00.56	
2-1/2	62-65	1.25	7.69	3.44	4.13	3.69	2.00	4.69	6.63	5830.00.64	
2-3/4	68-72	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88	5830.00.72	
3	75-78	1.50	9.19	3.88	4.75	4.44	2.38	5.31	7.61	5830.00.75	
3-1/2	85-90	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38	5830.00.85	



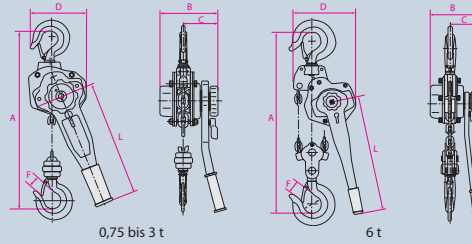
Above grips meets the performance requirements of US Federal Spec FF-C-450

HOISTS: Hand

*Top quality  
precision unit*

7311. Lever Hoist 1.5m standard lifting height Type RZ

- Excellent value for money
- Anti-corrosion treated chain
- Swivel hooks chain release
- Multi-purpose hoist, designed for work in any conditions



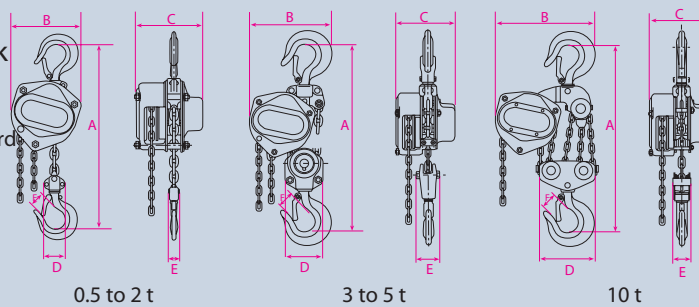
Ratschzug RZ mit 1,5 m Normalhub.

Load Capacity kg	Model	No of chains	Approx lever force N	Dimensions in mm							Weight at 1.5m lift kg	Part Number.
				A	B	C	D	H min.	F	L		
750	RZ 75	1	210	320	156	94	132	38	26	280	6.7	7311.50.07
1500	RZ 150	1	240	360	176	103	162	42	32	410	10.5	7311.50.15
2000	RZ 200	1	300	365	176	103	162	45	34	410	10.8	7311.50.20
3000	RZ 300	1	320	470	202	112	185	50	34	410	18.0	7311.50.30
6000	RZ 600	2	340	565	202	112	230	65	44	410	25.8	7311.50.60

HOISTS: Manual chain blocks

7311. Spur Wheel Chain Block Type FZ

With round steel chain. Standard height of lift 3m.



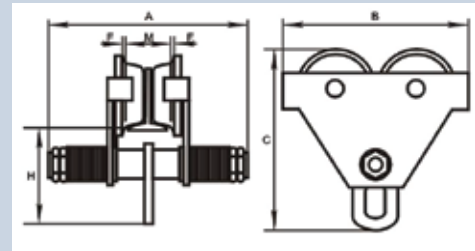
Spur Wheel Chain Block with 3m standard lifting height

Capacity kg	Model	No of chain falls	Approx lever force N	Dimensions in mm					Unit weight kg	Part Number.
				A	B	C	D	E		
500	FZ 05	1	260	312	140	131	60	33	8,2	7311.40.05
1000	FZ 10	1	310	360	156	151	61	31	11,3	7311.40.10
1500	FZ 15	1	350	385	176	151	60	44	13,2	7311.40.15
2000	FZ 20	1	390	430	223	183	67	58	21,3	7311.40.20
3000	FZ 30	2	460	490	223	151	106	85	21,7	7311.40.30
5000	FZ 50	2	470	675	252	183	133	64	39,7	7311.40.50
10000	FZ 100	4	490	880	380	183	263	88	66,0	7311.41.00

Higher Capacity Available on Request

**7213. Push/pull beam trolley type HTP**

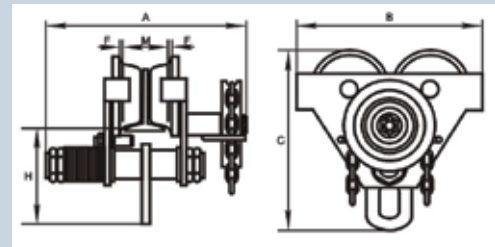
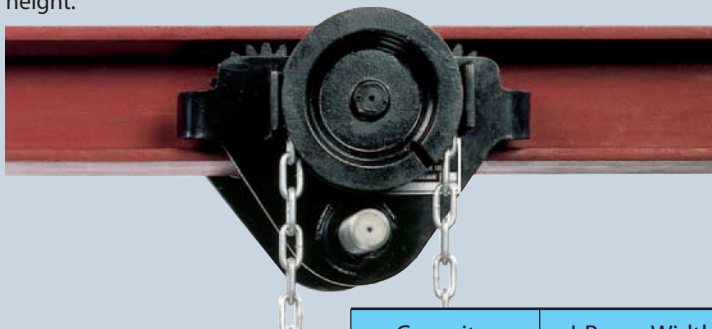
Low height due to compact design and construction. Can be set for a wide range of beam styles including different profiles (INP, IPE and IPB). Central load suspension, no side movement. Rollers of cast iron. Smooth running due to ball race bearings, tilting protection is standard. Continuously adjustable.



Capacity	I-Beam Width	N.W./KGS	A	B	C	Part No.
0.5t	50-220	5	285	198	158	7213.05
1t	58-220	8.7	285	238	183	7213.10
2t	66-220	13.9	300	277	208	7213.20
3t	74-220	23.5	321	324	249	7213.30
5t	90-220	40	354	373	296.5	7213.50

**7214. Geared beam trolley type HTG**

Chain drive. Low height due to compact design and construction. Can be set for a wide range of beam sizes including different profiles (INP, IPE and IPB). Central load suspension, no side movement on the traverse. Rollers of cast iron. Smooth running due to ball bearings, tilting protection is standard. Smoothly adjustable chain traverse drive with chain for 3m track height.



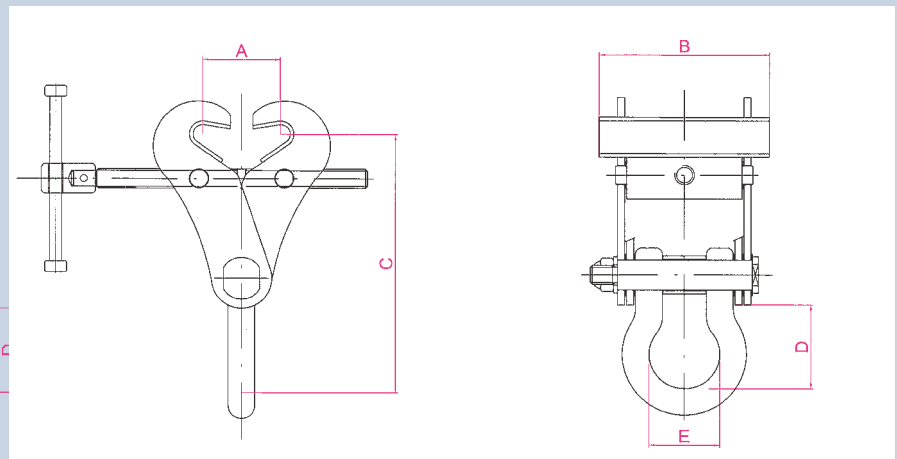
Capacity	I-Beam Width	N.W./KGS	A	B	C	Part No.
0.5t	50-220	9	352.5	198	158	7214.05
1t	58-220	12.6	353.5	238	183	7214.10
2t	66-220	18.5	362	277	208	7214.20
3t	74-220	28	406.5	324	249	7214.30
5t	90-220	45	434.5	373	296.5	7214.50
10t	125-220	98	490	455	340	7214.100

## 7216. Beam clamp type T

The simple and safe attachment point. Beam clamps with adjustable flange width can be attached quickly and easily without mounting tools or auxiliary material. The jaws are pressed on the beam by a clamping spindle and thus provides a suspension point for lifting gear, pulleys etc. Even heavy constructions or sections that are otherwise difficult to grab can be quickly and easily moved with these clamps.

Load capacity in kg	Type	Flange width A in mm	Abmessungen in mm				Weight in kg	Item no.
			B	C	D	E		
2000	T 2	43 - 246	121	270	97	79	5	7216.00.20
3000	T 3	69 - 350	152	360	114	102	6	7216.00.30
5000	T 5	57 - 345	149	350	99	120	13	7216.00.50
10000	T 10	100 - 365	200	470	176	150	38	7216.A1.00

Subject to technical changes.



## 7312. Rope pulling machine „Red Pull“

- Manual rope pulling machine with lever tube
- Overload protection by shear pins
- Neutral gear position for pulling out the unloaded rope
- Impact resistant aluminium housing
- Complies with UVV BGV D8 (German Accident Prevention Regulations)
- Special wire rope with safety hook included
- Available immediately from stock

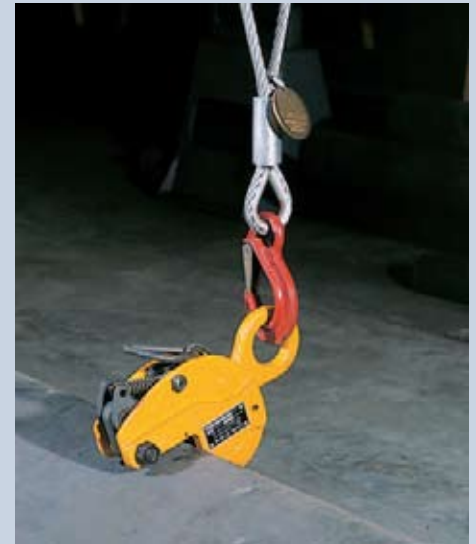
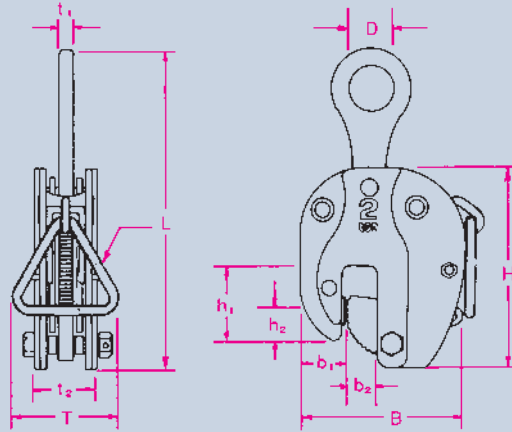
The low cost rope pulling machine!



Nominal capacity in daN	Rope $\phi$ in mm	Rope length in m	Weight without rope in kg	Item no.
800	8	20	6	7312.00.08
1600	11,2	20	11	7312.00.16
3200	16	20	22	7312.00.32
5400	20	20	26	7312.00.54

## 7121. Lifting clamp Type SVC-HE

For lifting metal plates and profiles. Low weight with high capacity, simple handling, with snap bolt lock. Two piece, forged body of high quality materials, constant production inspections, corrosion resistant due to special phosphate coating of all functional parts, all parts replaceable. Surface coating, clearly legible capacity and grab range forged into the body.

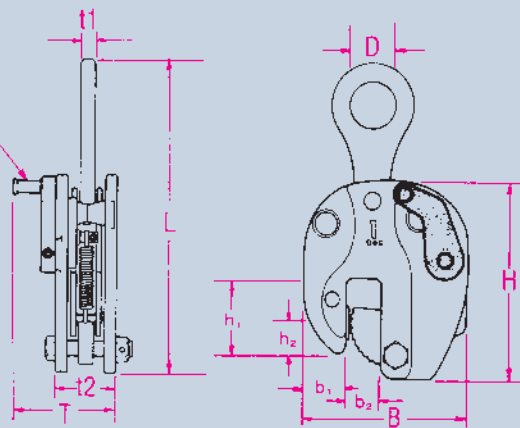


Surface hardness up to a max. 50 HRC.

Load capacity kg	Type	Grab range mm	Dimensions mm											Weight kg	Part No. 7121.
			L	t1	t2	T	h1	h2	H	b1	b2	B	D		
1000	SVC-1 HE	0-19	250	12	45	86	60	24	158	36	26	131	36	3.0	7121.19.01
2000	SVC-2 HE	0-25	310	16	59	86	69	24	185	42	32	152	48	6.0	7121.25.02
3000	SVC-3 HE	0-30	375	18	71	86	77	30	210	48	39	172	60	10.5	7121.30.03
4000	SVC-4 HE	0-35	405	20	75	86	81	34	225	51	42	182	66	12.5	7121.35.04
6000	SVC-6 HE	0-40	455	22	86	86	94	45	260	60	52	213	84	20.5	7121.40.06

## 7122. Lifting clamp Type SVC-LE

Low weight with high capacity, simple handling with built in remote unlocking and safety lever. Two piece forged clamp body made of high quality special steel, maximum possible safety due to high quality materials and constant production inspections, corrosion-resistant due to special phosphate coating of all functional parts, all parts replaceable. Surface coating, clearly legible capacity and grab range specifications forged into the clamp body.



Surface hardness up to a max. 50 HRC.

Load capacity kg	Type	Grab range mm	Dimensions mm											Weight kg	Part No. 7122.	£ per unit
			L	t1	t2	T	h1	h2	H	b1	b2	B	D			
1000	SVC-1 LE	0-19	250	12	45	80	34	24	158	36	26	131	36	3.0	7122.19.01	142.00
2000	SVC-2 LE	0-25	310	16	59	105	47	24	185	42	32	152	48	6.0	7122.25.02	202.00
3000	SVC-3 LE	0-30	375	18	71	118	52	30	210	48	39	172	60	10.5	7122.30.03	236.00
4000	SVC-4 LE	0-35	405	20	75	129	59	34	225	51	42	182	66	12.5	7122.35.04	285.00
6000	SVC-6 LE	0-40	455	22	86	148	76	45	260	60	52	213	84	12.5	7122.40.06	440.00



**CONTAINER LIFTING LUGS (SETS OF 4) TYPE MK**

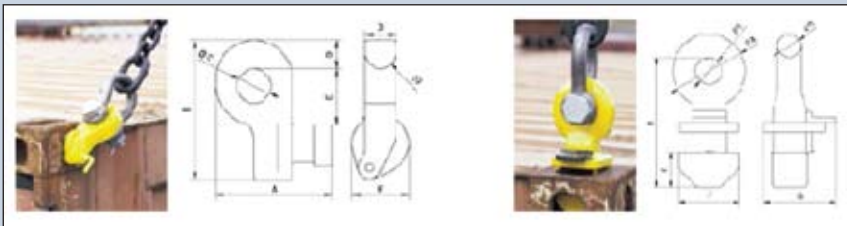
MODEL	WLL TONNES SET OF 4	CHAIN ANGLE	TYPE	WEIGHT kg
MKIIa	56	VERTICAL	TOP LIFTING	28
MKVa	40	DEG 36	BOTTOM LIFTING	18
MKVa	32	DEG 50	BOTTOM LIFTING	18



MKIIa



MKVa



Available as a set of 4 with a total WLL of 56 tonnes. Two types are available for either top lifting or bottom side lifting. MKIIa - Self locking lugs for top lifting of containers. Suitable for splicing direct to 4 vertical slings. The lug engages in the top corner aperture and when rotated through 90° a lock ring drops and firmly secures the lug. These lugs are used for lifting with a spreader frame and do not project over the container. MKVa - these lugs are designed to eliminate the dangerous use of standard hooks and are handed left and right. Maximum load is 40t at a sling angle of 36° or 32t at a sling angle of 50°. These lugs cannot drop out when the slings become slack as they are secured by a spring loaded pin.

**7541. Wire rope block**



Capacity kg	For wire rope mm	Roller ø mm	Weight approx. kg	Part No.: 7541.
2000	10	76	2	7541.00.07
4000	13	114	5	7541.00.11
8000	19	152	12	7541.00.15
8000	19	203	15	7541.00.20
8000	19	254	19	7541.00.25
8000	19	305	22	7541.00.30
8000	19	356	25	7541.00.35
15000	22	406	59	7541.00.40
15000	26	457	68	7541.00.45

## Steel Wire Ropes

- ▶ Crane and industrial wire ropes
- ▶ Round strand wire ropes
- ▶ Spiral ropes
- ▶ Ropes for theatre and stage technology



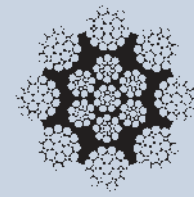
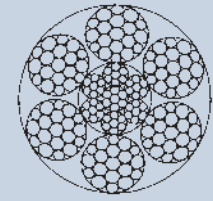
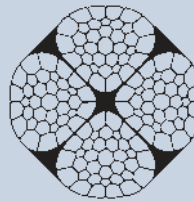
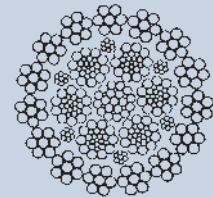
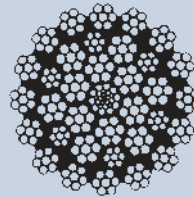
Photos: Wolffkran Group

Crane ropes for the following tower cranes:

- ▶ Liebherr
- ▶ MAN Wolff
- ▶ Potain
- ▶ Terex-Peines
- ▶ Cadillon
- ▶ PKZ
- ▶ Conducta
- ▶ Arcomet
- ▶ Ferro
- ▶ Terex-Comedil

Our product range includes:

- ▶ Hoist ropes
- ▶ Trolley ropes
- ▶ Assembly ropes
- ▶ Holding ropes
- ▶ Bracing ropes



**CondorRope**

**CASAR**

## Important terms and abbreviations out of DIN EN 12385

### Core types:

C	=	Core
FC	=	Fibre Core
NFC	=	Natural Fibre Core
SFC	=	Synthetic Fibre Core
WC	=	Steel Core
IWRC	=	Independent Wire Rope Core
WSC	=	Wire Strand Core

### Stranding types:

S	=	Seale
W	=	Warrington
F	=	Filler
WS	=	Warrington-Seale
M	=	Cross-Lay
N	=	Compound Lay

### Lays and Lay Directions:

z	=	Right hand lay
s	=	Left hand lay
sZ	=	Right hand ordinary lay
zS	=	Left hand ordinary lay
zZ	=	Right hand lang's lay
sS	=	Left hand lang's lay
aZ	=	Right hand alternate lay
aS	=	Left hand alternate lay

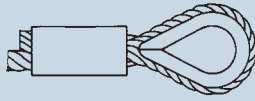
### Compaction:

K	=	Compacted
(K in front of strand = compacted strand, K in front of rope = compacted rope)		

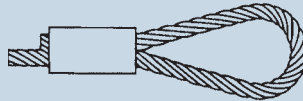


Wire rope terminations:

Pressed thimble DIN 6899-



Pressed Loop



Cast socket (incl. synthetic resin casting material)



Pointed end



Rope ø in mm	Item no. pressed thimble	Item no. pressed loop	Item no. cast socket	Item no. pointed end
5	PKZ0.00.50	PSZ0.00.50	-	1130.00.50
6	PKZ0.00.60	PSZ0.00.60	-	1130.00.60
7	PKZ0.00.70	PSZ0.00.70	-	1130.00.70
8	PKZ0.00.80	PSZ0.00.80	-	1130.00.80
9	PKZ0.00.90	PSZ0.00.90	-	1130.00.90
10	PKZ0.01.00	PSZ0.01.00	VE00.01.00	1130.01.00
11	PKZ0.01.10	PSZ0.01.10	VE00.01.10	1130.01.10
12	PKZ0.01.20	PSZ0.01.20	VE00.01.20	1130.01.20
13	PKZ0.01.30	PSZ0.01.30	VE00.01.30	1130.01.30
14	PKZ0.01.40	PSZ0.01.40	VE00.01.40	1130.01.40
16	PKZ0.01.60	PSZ0.01.60	VE00.01.60	1130.01.60
18	PKZ0.01.80	PSZ0.01.80	VE00.01.80	1130.01.80
20	PKZ0.02.00	PSZ0.02.00	VE00.02.00	1130.02.00
22	PKZ0.02.20	PSZ0.02.20	VE00.02.20	1130.02.20
24	PKZ0.02.40	PSZ0.02.40	VE00.02.40	1130.02.40



### Cablegrip type K I

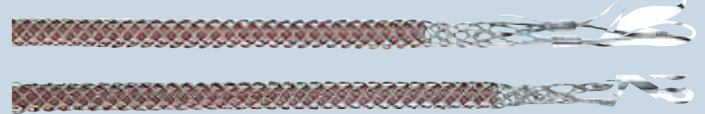
With single eye or pressed thimble



For quick and flexible fastening of cables, ropes or pipes free of damage to a traction or winch rope for towing in cable trenches, tubes etc. (Type K I-k ideal for use with swivel connectors)

### Cablegrip type K II

With double eyes or pressed thimbles



The type K II may not only be used for towing cables and pipes. It can also be moved alongside the cable due to its open front end for readjustment.

### Cablegrip type K N

With double eyes or pressed thimbles, open sided with lace-up strand



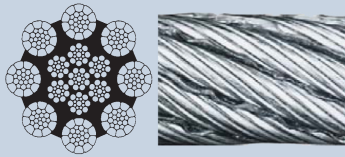
This open sided lace up type can be fitted anywhere along the cable, rope or pipe length. After the open side has been stitched together with the enclosed strand the cablegrip is ready for use.

### Cablegrip type K O

Open ended



This type is used for joining 2 cables or ropes. It is indispensable when replacing hoisting or elevator ropes. Use only if there is not too much torsion on the rope.

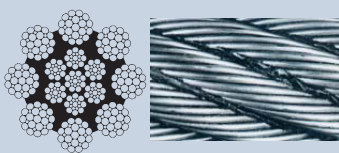


## 1841. Turboplast

Is an 8-strand rope made out of compacted outer strands. It is fully lubricated. It has a plastic layer between the steel core and the outer strands, giving the rope a high structural stability. Internal destruction of the rope is avoided and the steel core is protected against corrosion. This rope has a very high breaking load and a good resistance against drum crushing.

Applications: Derricking and boom rope for mobile cranes and grabs. Hoist rope for container-, floating-, dockside-, gantry cranes etc. in multi-fall operation and smaller lifting heights. With 2 ropes in right and left hand lay for high lifting heights. Holding and closing rope for grabs.

Rope ø in mm	Minimum breaking load (tensile strength 1770 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
8	51,1	5,20	0,290	1841.20.80
9	66,0	6,71	0,372	1841.20.90
10	80,2	8,15	0,461	1841.21.00
11	97,1	9,87	0,555	1841.21.10
12	115,1	11,70	0,658	1841.21.20
13	136,6	13,89	0,778	1841.21.30
14	157,9	16,05	0,897	1841.21.40
15	183,1	18,62	1,035	1841.21.50
16	207,2	21,06	1,179	1841.21.60
17	230,6	23,46	1,326	1841.21.70
18	260,2	26,46	1,469	1841.21.80
19	292,1	29,71	1,644	1841.21.90
20	321,0	32,64	1,833	1841.22.00
21	350,8	35,68	1,974	1841.22.10
22	391,7	39,83	2,191	1841.22.20
23	425,7	43,30	2,393	1841.22.30
24	464,5	47,24	2,606	1841.22.40
25	504,2	51,28	2,820	1841.22.50
26	548,9	55,82	3,066	1841.22.60
27	584,9	59,49	3,309	1841.22.70
28	629,6	64,04	3,525	1841.22.80
29	678,8	69,03	3,793	1841.22.90
30	727,1	73,94	4,096	1841.23.00
31	776,8	79,00	4,370	1841.23.10
32	828,0	84,21	4,643	1841.23.20
33	875,2	89,00	4,975	1841.23.30
34	936,4	95,23	5,232	1841.23.40
36	1040,1	105,77	5,834	1841.23.60



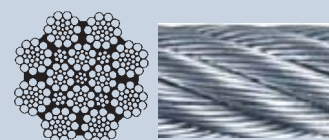
## 1831. Stratoplast

Is an 8-strand rope made out of conventional strands. It is fully lubricated. It has a plastic layer between the steel core and the outer strands, giving the rope a high structural stability. Internal destruction of the rope is avoided and the steel core is protected against corrosion. Stratoplast is a hoist rope for container-, floating-, dockside-, gantry cranes etc. in multi-fall operation and smaller lifting heights. With 2 ropes in right and left hand lay for high lifting heights. Holding and closing rope for grabs.

Rope ø in mm	Minimum breaking load (tensile strength 1770 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
8	47,2	4,800	0,283	1831.20.80
9	60,0	6,100	0,363	1831.20.90
10	74,0	7,350	0,444	1831.21.00
11	88,5	9,000	0,552	1831.21.10
12	106,6	10,840	0,643	1831.21.20
13	125,5	12,760	0,746	1831.21.30
14	144,6	14,710	0,864	1831.21.40
15	166,3	16,910	1,007	1831.21.50
16	189,0	19,220	1,140	1831.21.60
17	211,5	21,510	1,284	1831.21.70
18	239,8	24,380	1,437	1831.21.80
19	264,5	26,900	1,633	1831.21.90
20	295,3	30,030	1,802	1831.22.00
21	324,2	32,970	1,999	1831.22.10
22	356,2	36,230	2,186	1831.22.20
23	386,8	39,340	2,379	1831.22.30
24	423,4	43,060	2,579	1831.22.40



Rope ø in mm	Minimum breaking load (tensile strength 1770 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
4	11,7	1,19	0,071	1891.20.40
4,5	15,1	1,53	0,089	1891.20.45
5	19,0	1,94	0,109	1891.20.50
5,5	23,6	2,40	0,139	1891.20.55
6	28,5	2,89	0,163	1891.20.60
6,5	34,2	3,48	0,199	1891.20.65
7	38,5	3,92	0,225	1891.20.70
7,5	44,8	4,55	0,267	1891.20.75
8	49,6	5,05	0,294	1891.20.80
8,5	53,0	5,39	0,327	1891.20.85
9	65,0	6,61	0,378	1891.20.90
10	75,8	7,71	0,461	1891.21.00
11	92,9	9,45	0,566	1891.21.10
12	111,3	11,32	0,667	1891.21.20
13	129,4	13,16	0,775	1891.21.30
14	150,3	15,29	0,891	1891.21.40
16	196,1	19,94	1,175	1891.21.60
18	246,9	25,11	1,494	1891.21.80
20	308,6	31,38	1,859	1891.22.00
22	370,6	37,69	2,272	1891.22.20
24	435,7	44,31	2,665	1891.22.40
25	483,8	49,20	2,879	1891.22.50
26	519,7	52,85	3,109	1891.22.60
27	557,3	56,67	3,356	1891.22.70



## 1891. Alphalift

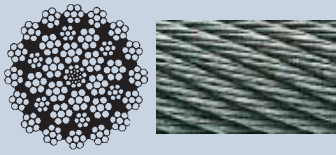
Is an 8-strand rope in non interfering double parallel lay construction made out of conventional strands. It is fully lubricated, very flexible and has a high breaking load.

Applications: Hoist rope for electric hoists and lifting devices with multi-fall operation if not – due to high lifting heights, unguided load or small number of falls - it is mandatory to use a rotation-resistant rope.



A works test certificate for your steel wire rope is available on request.

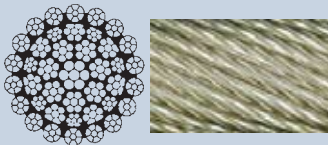




## 1801. Starlift

Special hoist rope, ungalvanised, rotation-resistant, flexible with high breaking load, fully lubricated, with compacted steel core avoiding crossovers between the strands and reducing the danger of internal rope destruction. Very suitable for most electric cranes and elevators. The smooth surface spares pulleys and drums. The service life is increased compared to standard ropes; trouble-free operation is guaranteed..

Rope ø in mm	Minimum breaking load (tensile strength 1770 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
7	34,1	3,47	0,225	1801.20.70
8	44,5	4,53	0,328	1801.20.80
9	55,4	5,63	0,367	1801.20.90
10	69,2	7,04	0,465	1801.21.00
11	83,1	8,45	0,560	1801.21.10
12	99,9	10,16	0,665	1801.21.20
13	117,3	11,92	0,782	1801.21.30
14	135,9	13,83	0,904	1801.21.40
15	156,3	15,89	1,044	1801.21.50
16	178,1	18,11	1,190	1801.21.60
17	200,1	20,35	1,330	1801.21.70
18	222,6	22,64	1,490	1801.21.80
19	250,9	25,52	1,679	1801.21.90
20	277,7	28,24	1,845	1801.22.00
21	306,3	31,15	2,040	1801.22.10
22	337,0	34,27	2,250	1801.22.20
23	366,5	37,28	2,441	1801.22.30
24	400,5	40,73	2,664	1801.22.40
25	431,9	43,93	2,879	1801.22.50
26	469,2	47,71	3,123	1801.22.60
27	508,3	51,69	3,356	1801.22.70
28	548,8	55,81	3,619	1801.22.80
29	585,8	59,57	3,892	1801.22.90
30	627,1	63,77	4,183	1801.23.00



## 1941. Eurolift

Rotation-resistant, flexible hoist rope made out of compacted outer strands and a compacted steel core. Fully lubricated. High breaking load and good resistance against drum crushing. Core in special design, avoiding crossovers between the strands and preventing internal rope destruction.

Available in:  
Ordinary lay or lang's lay



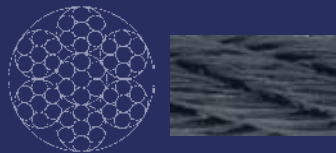
Rope ø in mm	Minimum breaking load (tensile strength 1770 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
10	81,9	8,33	0,490	1941.21.00
11	99,5	10,12	0,593	1941.21.10
12	118,2	12,10	0,705	1941.21.20
13	139,0	14,14	0,821	1941.21.30
14	161,7	16,50	0,949	1941.21.40
15	184,5	18,80	1,091	1941.21.50
16	209,4	21,29	1,257	1941.21.60
17	235,9	23,99	1,406	1941.21.70
18	266,9	27,15	1,601	1941.21.80
19	297,1	30,30	1,768	1941.21.90
20	329,3	33,49	1,956	1941.22.00
21	362,3	36,84	2,142	1941.22.10
22	398,5	40,60	2,373	1941.22.20
23	431,5	43,88	2,609	1941.22.30
24	474,3	48,30	2,813	1941.22.40
25	512,8	52,30	3,076	1941.22.50
26	555,0	56,60	3,285	1941.22.60
27	598,3	60,85	3,530	1941.22.70
28	643,7	65,60	3,846	1941.22.80
29	690,2	70,19	4,062	1941.22.90
30	738,1	75,30	4,347	1941.23.00
32	843,4	85,74	5,011	1941.23.20
34	950,8	96,69	5,640	1941.23.40
36	1070,0	109,10	6,327	1941.23.60
38	1191,0	121,50	7,081	1941.23.80
40	1360,0	138,00	7,831	1941.24.00



**1551.**  
Round strand rope  
with black surface  
and steel core

Construction 6x7 WSC,  
type Black Star, according to  
DIN EN 12385-4 (DIN 3055)

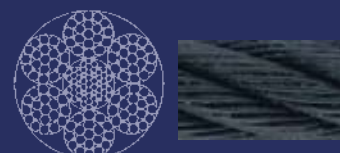
Application:  
Theatre and stage technology



**1601.**  
Round strand rope  
with black surface  
and steel core

Construction 6x19 WSC,  
type Black Star, according to  
DIN EN 12385-4 (DIN 3060)

Application:  
Theatre and stage technology



Rope ø in mm	Minimum breaking load (tensile strength 1960 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
1,5	1,57	0,160	0,0089	1551.30.15BS
2,0	2,81	0,287	0,0157	1551.30.20BS
2,5	4,39	0,448	0,0246	1551.30.25BS
3,0	6,32	0,646	0,0354	1551.30.30BS
4,0	11,3	1,140	0,0629	1551.30.40BS
5,0	17,6	1,800	0,0983	1551.30.50BS

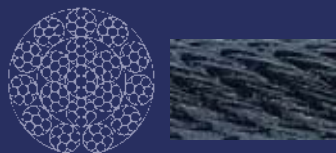
Rope ø in mm	Minimum breaking load (tensile strength 1960 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN	t		
3,0	5,86	0,598	0,0342	1601.30.30BS
4,0	10,4	1,060	0,0609	1601.30.40BS
5,0	16,3	1,660	0,0952	1601.30.50BS
6,0	23,5	2,390	0,1380	1601.30.60BS
7,0	31,9	3,260	0,1870	1601.30.70BS
8,0	41,6	4,240	0,2430	1601.30.80BS



**1K13.**  
Round strand rope  
with black surface  
and steel core

Construction 17x7 WSC,  
type Black Star, according to  
DIN EN 12385-4

Application:  
Theatre and stage technology

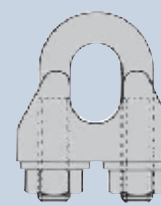


Rope ø in mm	Minimum breaking load (tensile strength 1960 N/mm <sup>2</sup> )		Weight in kg/m	Item no.
	kN			
4	13,6		0,0643	1K13.7B.311040
5	21,2		0,1	1K13.7B.311050
6	30,5		0,145	1K13.7B.311060
7	41,6		0,197	1K13.7B.311070
8	54,3		0,257	1K13.7B.311080

## Accessories for black ropes:



Thimbles



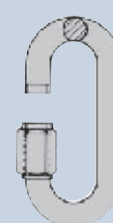
Wire rope clips



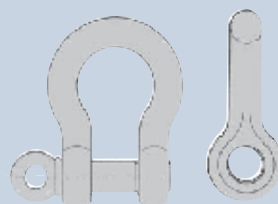
Turnbuckles



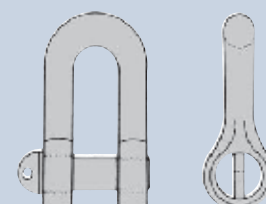
Snap hooks



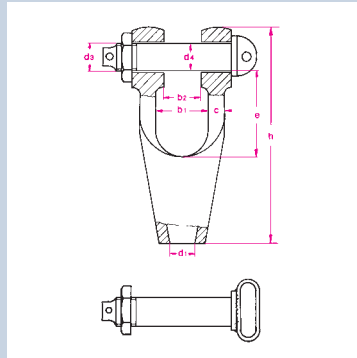
Quick link



Bow shackle



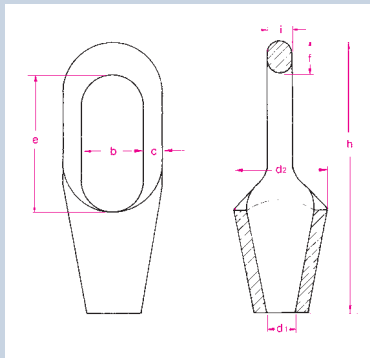
Dee shackle



5891. Open spelter socket without bolt

5892. Open spelter socket with bolt, nut and pin

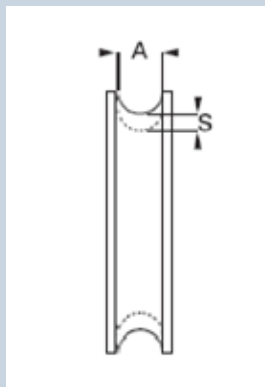
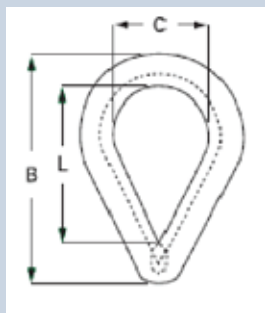
Load capacity in kg	Nominal size	for rope $\varnothing$ in mm	Dimensions in mm						Weight in kg		Item no.	Item no.
			b1	b2	c	d4	e	h	5891	5892		
1600	1,6	12-14	37	27	12	20	55	147	0,9	1,1	5891.00.16	5892.00.16
2500	2,5	14-18	45	33	14	24	67	175	1,4	1,8	5891.00.25	5892.00.25
3150	3,0	16-20	50	38	16	27	73	195	1,8	2,4	5891.00.31	5892.00.31
4000	4,0	18-22	54	42	18	30	81	212	2,4	3,2	5891.00.40	5892.00.40
5000	5,0	20-24	60	47	20	36	88	237	3,7	5	5891.00.50	5892.00.50
6300	6,0	22-28	67	53	23	39	94	262	5,0	6,7	5891.00.63	5892.00.63
8000	8,0	26-30	73	60	26	45	104	289	7,0	9,5	5891.00.80	5892.00.80
10000	10,0	28-34	80	66	29	48	116	320	10,0	13	5891.01.00	5892.01.00
12500	12,0	32-38	89	73	32	52	130	356	13,0	17	5891.01.25	5892.01.25
16000	16,0	36-44	100	81	35	60	143	397	18,0	24	5891.01.60	5892.01.60
20000	20,0	40-50	110	90	40	68	157	435	23,0	31	5891.02.00	5892.02.00
25000	25,0	44-54	120	100	43	72	179	480	31,0	41	5891.02.50	5892.02.50
31500	32,0	50-62	132	110	48	80	191	525	42,0	55	5891.03.15	5892.03.15
40000	40,0	58-72	150	125	54	90	218	595	60,0	80	5891.04.00	5892.04.00
50000	50,0	61-76	165	140	60	100	238	655	80,0	105	5891.05.00	5892.05.00



5890. Closed spelter socket

Load capacity in kg	Nominal size	for rope $\varnothing$ in mm	Dimensions in mm								Weight in kg	Item no.
			b	c	d1	d2	e	f	h	l		
1600	1,6	12-14	37	12	17	55	76	19	155	15	0,7	5890.00.16
2500	2,5	14-18	45	14	20	62	89	24	182	19	1,2	5890.00.25
3150	3,0	16-20	50	16	22	69	98	26	202	21	1,5	5890.00.31
4000	4,0	18-22	54	18	24	76	106	30	220	24	2,0	5890.00.40
5000	5,0	20-24	60	20	27	85	117	34	245	27	3,1	5890.00.50
6300	6,0	22-28	67	23	30	94	131	38	275	30	4,2	5890.00.63
8000	8,0	26-30	73	26	33	103	143	42	300	33	5,8	5890.00.80
10000	10,0	28-34	80	29	36	112	160	45	330	36	8,0	5890.01.00
12500	12,0	32-38	89	32	40	125	179	51	370	41	11,0	5890.01.25
16000	16,0	36-44	100	35	45	140	200	56	415	46	15,0	5890.01.60
20000	20,0	40-50	110	40	50	156	224	62	460	50	20,0	5890.02.00
25000	25,0	44-54	120	43	55	173	246	69	505	55	27,0	5890.02.50
31500	32,0	50-62	132	48	60	188	270	76	555	61	35,0	5890.03.15
40000	40,0	58-72	150	54	68	212	308	85	630	68	50,0	5890.04.00
50000	50,0	62-76	165	60	75	235	339	94	695	75	67,0	5890.05.00

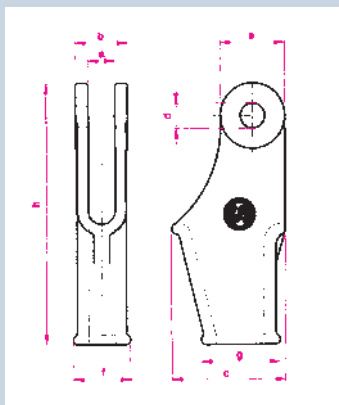
5960. Thimble according to BS 464



**Galvanised BS 464 Thimbles**

Rope Dia	A mm	B mm	L mm	C mm	S mm	Weight gs/10	Part No.
1/4"	7	45	26	18	4	4.1	5960.00.06
5/16"	8	54	33	22	4	6.5	5960.00.08
3/8"	10	64	38	25	4.8	9.5	5960.00.10
1/2"	14	80	44	32	5.6	13	5960.00.13
5/8"	16	98	59	41	7.9	30	5960.00.16
3/4"	21	123	73	51	9.5	51.5	5960.00.19
7/8"	22	133	83	57	9.5	69.0	5960.00.22
1"	27	162	108	70	10.3	99.5	5960.00.26
1 1/8"	29	178	111	76	12.7	129	5960.00.28
1 1/4"	33	197	133	95	12.7	145	5960.00.32
1 3/8"	38	229	152	105	15.9	238	5960.00.36
1 1/2"	41	254	165	114	17.5	340	5960.00.38
1 5/8"	43	254	165	114	17.5	499	5960.00.42
1 3/4"	51	286	178	127	25.4	532	5960.00.44
2"	64	330	203	140	28.6	695	5960.00.52

The thimbles detailed above will meet the performance requirements of the new Standard BS-EN-13411



**5880. Wedge socket according to DIN 43148**

(Sizes for rope  $\varnothing$  12-15 and bigger are non standard)  
 Material: Body up to rope  $\varnothing$  12-15: GTW-40 (malleable cast iron) according to DIN 1692. From rope  $\varnothing$  16-20: GS 60.1 according to DIN 1681.  
 Wedge: GTW-40 according to DIN 1692. All parts hot dip galvanised.

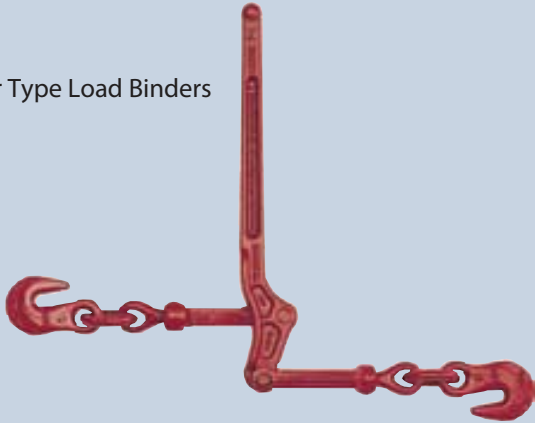
Not suitable for elevators!



Load capacity in kg	Nominal size rope $\varnothing$ in mm	Dimensions in mm								Weight in kg	Item no.
		a	b	c	d	e	f	g	h		
50	2-4	8	15	27	7,5	16	13	16,5	66	0,08	5880.02.04
250	4-5	12	23	37	12	31	23	27,5	108	0,36	5880.04.05
500	6-7	14	26	61,5	14	35	30	39	150	0,75	5880.06.07
500	8	14	26	61,5	14	35	30	39	150	0,69	5880.00.08
500	9-12	14	26	61,5	14	35	30	39	150	0,65	5880.09.12
1000	10-12	17	31	66	17	37	32	47	163	0,82	5880.10.12
1000	12-14	17	31	66	17	37	32	47	163	0,78	5880.12.14
2500	12-15	20	40	99	20	54	44	65	220	2,56	5880.12.15
5500	16-17	24	52	138	25	76	54	89	275	6,30	5880.16.17
5500	16-20	24	52	138	25	76	54	89	275	6,30	5880.16.20
8000	19-20	29	63	138	25	77	67	97	276	7,50	5880.19.20
6800	21-26	30	66	175	33,5	80	69	124	370	12,90	5880.21.26
6800	24-26	30	66	175	33,5	80	69	124	370	12,90	5880.24.26
10000	27-32	37	91	199	48,5	112	82	135	486	27,00	5880.27.32



5L25.  
Lever Type Load Binders



5R25.  
Ratchet Type Load Binders



Turnbuckles with extra long adjustment range

5731. with hook and eye



5732. with 2 eyes



5733. with fork and eye



5734. with 2 forks



PowerPoint-Star



PowerPoint-B



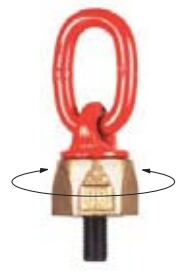
PowerPoint-VIP



VLBG  
Lifting ring



WBG-V  
Lifting ring



WBG Lifting ring



Starpoint VRS  
Eye Bolt



Starpoint  
VRM  
Eye Nut



INOX-  
STAR



High Strength Eye Bolt / Eye Nut



VRBG  
Lifting ring



## Load Restraint Systems

- ▶ Lashing Straps
- ▶ Lashing Chains
- ▶ Anti-slip Mats
- ▶ Accessories (Edge Protectors, Protective Sleeves etc.)



4155.  
Polyester strap with  
cambuckle according to  
DIN EN 12195-2

Width 25 mm  
Endless  
For light load restraint and in-house  
storage.



LC in daN	Length in m	Max. elongation at LC in %	Item no.
250	4	< 7	41550100.004000
250	6	< 7	41550100.006000

Other lengths available on request.




4802.  
Polyester ratchet strap  
according to  
DIN EN 12195-2

Width 25 mm  
Endless or two-part, with double J  
or snap hook. Specially suitable for  
use with roof racks and auto trailers  
for light duty.


Other lengths available on request.



LC in daN	Length in m	Max. elongation at LC in %	Item no.
 500	4	< 7	48020100.004000
500	6	< 7	48020100.006000


Polyester ratchet strap,  
width 25 mm, endless



LC in daN	Length in m	Max. elongation at LC in %	Item no.
 250 / 500	4	< 7	48020212.004000
250 / 500	6	< 7	48020212.006000

Polyester ratchet strap, width 25 mm,  
two-part with double J hook



LC in daN	Length in m	Max. elongation at LC in %	Item no.
 250 / 500	4	< 7	48020209.004000
250 / 500	6	< 7	48020209.006000

Polyester ratchet strap, width 25 mm,  
two-part with snap hook





## 4803.P Polyester ratchet strap

Width 50 mm

According to DIN EN 12195-2

Polyester ratchet strap,  
width 50 mm, two-part, with flat hook



LC in daN	Length in m	ST <sub>F</sub> in daN	Max. elongation at LC in %	Item no.
500 / 1000	4	210	< 7	4803P244.004000
500 / 1000	6	210	< 7	4803P244.006000

Polyester ratchet strap,  
width 50 mm, two-part, with snap hook



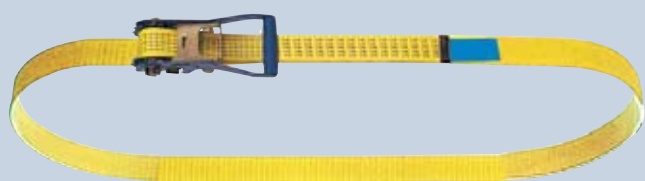
LC in daN	Length in m	ST <sub>F</sub> in daN	Max. elongation at LC in %	Item no.
500 / 1000	4	210	< 7	4803P209.004000
500 / 1000	6	210	< 7	4803P209.006000

Polyester ratchet strap,  
width 50 mm, two-part, with double J hook



LC in daN	Length in m	ST <sub>F</sub> in daN	Max. elongation at LC in %	Item no.
500 / 1000	4	210	< 7	4803P212.004000
500 / 1000	6	210	< 7	4803P212.006000

Polyester ratchet strap,  
width 50 mm, endless



LC in daN	Width in mm	Thickness not impregnated* in mm	Item no.
5000	50	2,9	48405100.008000

Polyester ratchet strap,  
width 50 mm, two-part with claw hook



LC in daN	ST <sub>F</sub> in daN	Width in mm	Thickness not impregnated* in mm	Item no.
2500/5000	450	50	2,9	48405204.008000

Polyester ratchet strap,  
width 50 mm, two-part with double J snap hook



LC in daN	ST <sub>F</sub> in daN	Width in mm	Thickness not impregnated* in mm	Item no.
2500/5000	450	50	2,9	48405215.008000

Polyester ratchet strap,  
width 50 mm, two-part with double J hook



LC in daN	ST <sub>F</sub> in daN	Width in mm	Thickness not impregnated* in mm	Item no.
2500/5000	450	50	2,9	48405201.008000

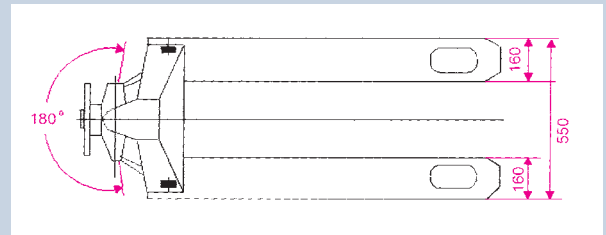
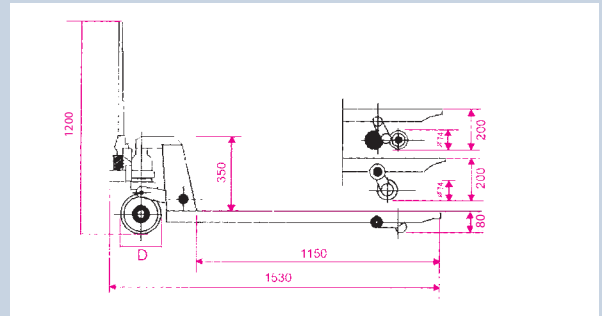
Polyester ratchet strap,  
width 50 mm, two-part with triangle and snap hook



LC in daN	ST <sub>F</sub> in daN	Width in mm	Thickness not impregnated* in mm	Item no.
2500/5000	450	50	2,9	48405253.008000



7785. Hand Pallet Trucks  
Load Capacity 3000 kg

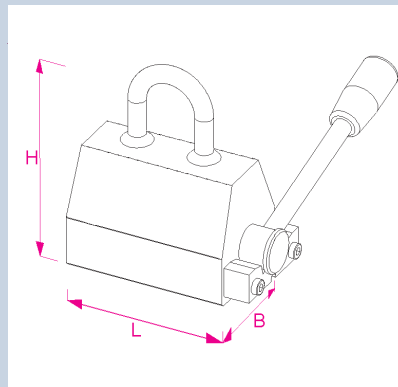


Load capacity in kg	Fork width in mm	Fork length in mm	Lifting height in mm	Steering wheels	Weight in kg	Item no.
3000	350	1150	200	Polyurethane	65	7785.60.30T

## Load Suspension Equipment: Lifting Magnets

7630.  
Permanent lifting magnets

CSN magnets are extremely powerful especially in case of air gaps or magnetically hard materials. The two-pole design with wide prism offers a high capacity for round material and also for thin flat material. The robust lever can be easily released and smoothly moved.



**Caution!** Ensure clean magnet and even work-piece surfaces!

Item no.	7630.01.04	7630.01.08	7630.01.14	7630.01.33	7630.01.60	
Type	CSN 125	CSN 250	CSN 500	CSN 1000	CSN 2000	
Recommended load capacity in kg	Flat material up to	125	250	500	1000	2000
	Round material up to	50	125	250	500	1000
Length in mm	95	151	246	306	480	
Width in mm	60	100	120	146	165	
Height to crane hook in mm	110	168	168	216	251	
Round material $\phi$ in mm	50-100	60-200	65-270	100-300	150-350	
Tested break-away force in daN*	400	800	1600	3200	6000	
Weight in kg	3	10	19	36	90	

\*The tested break-away force is determined on a steel plate (St37) with machined surface and a thickness of 50 mm.



## 7910./7911. Dynamometer and load indicator with digital display

Digital dynamometers according to European Standards EN 55022 and 50082.2 (electro-magnetic compatibility).

### Your advantages:

- Tare suppression over the whole measuring range
- Standard peak value display
- Automatic zero when switched on
- Automatic shutdown
- Low energy consumption (1 set of batteries lasts 350 hrs)
- Printer / PC connection
- Accuracy: 0,2% of result
- Modern design
- Range of radio control: 60-80 m (frequency 433,92 MHz)



### Dynamometer and load indicator with digital display with radio remote control type LLXTR

Suitable bow shackle

Measuring range in t	Min. value in kg	Dimensions L x W x H in mm	Weight in kg	Item no.
0,25	0,1	190 x 83 x 56	1,3	7910.00.02
0,5	0,2	190 x 83 x 56	1,3	7910.00.05
1,25	0,5	190 x 83 x 56	1,3	7910.00.12
2,5	1	214 x 83 x 56	1,6	7910.00.25
5	2	234 x 90 x 56	2,1	7910.00.50
12,5	5	310 x 110 x 58	4,0	7910.01.25
25	10	360 x 134 x 68	6,8	7910.02.50
50	20	440 x 164 x 98	15,2	7910.05.00
100	50	660 x 260 x 118	46	7910.10.00
250	100	905 x 424 x 248	215	7910.25.00

Item no.
5650.00.15
5650.00.15
5650.00.15
5650.00.32
5650.00.65
5650.01.35
5650.02.50
5650.05.50
-
-

Scope of delivery: Plastic case, 100 t and over: wooden box, batteries



### Dynamometer type LLX

Suitable bow shackle

Measuring range in t	Min. value in kg	Dimensions L x W x H in mm	Weight in kg	Item no.
0,25	0,1	190 x 83 x 56	1,1	7911.00.02
0,5	0,2	190 x 83 x 56	1,1	7911.00.05
1,25	0,5	190 x 83 x 56	1,1	7911.00.12
2,5	1	214 x 83 x 56	1,4	7911.00.25
5	2	234 x 90 x 56	1,9	7911.00.50
12,5	5	310 x 110 x 58	3,8	7911.01.25
25	10	360 x 134 x 68	6,6	7911.02.50
50	20	440 x 164 x 98	15	7911.05.00
100	50	660 x 260 x 118	46	7911.10.00
250	100	905 x 424 x 248	215	7911.25.00

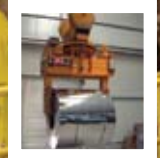
Item no.
5650.00.15
5650.00.15
5650.00.15
5650.00.32
5650.00.65
5650.01.35
5650.02.50
5650.05.50
-
-

Scope of delivery: Plastic case, 100 t and over: wooden box, batteries



**Roll transport**

**SPECIAL LIFTING EQUIPMENT FOR:**



**Vertical coil transport  
Horizontal coil transport**

**LOAD SUSPENSION EQUIPMENT**

Security is our utmost priority. For this reason, all Carl Stahl Nordgreif lifting equipment meets the latest accident prevention regulations from „Operating Lifting equipment BGR 500“ and the latest machine guidelines and the new EU standard. All our lifting equipment is CE-designated and is supplied with factory certification.

Technology and know-how to your advantage: use of fine-grain structural steels, construction and manufacture using cutting edge technology results in extremely durable lifting equipment even under extreme pressure. We build using CAD, two or three-dimensional.

Our lifting equipment is manufactured and supplied in accordance with DIN 15428 or DIN EN-13155, DIN 15018.

Carl Stahl Nordgreif has many years' experience in the lifting equipment field. Our activities are focussed particularly on developing and manufacturing tailor-made solutions for grab, pincer and crosshead technology. We also plan and develop special solutions for extremely diverse applications. Our strength lies in customer-oriented advice and individual planning according to your requirements.



**Slab transport**



**Slab handling**

**CUSTOMIZED SOLUTIONS**



**EVITA**

QUALITY TRAINING  
WORLDWIDE



Carl Stahl Evita Limited

# Quality Training Worldwide

Wire Rope

Fork Lift Trucks

Lifting Operations

Health and Safety

Confined Space

Welding



[www.carlstahl.ae](http://www.carlstahl.ae)





## Training for Managers

Management of lifting operations is no easy task whatever the job. Wherever you are, we will bring you up to date with all the changes in the legal framework, offer continued advice and support and provide consultancy whenever it is needed.

## Training for Competent and Appointed Persons

Many of our courses are aimed specifically at those who are appointed to specific lifting operational roles, especially in the oil, marine, steel and mining industries.

## Training for Wire Rope and Lifting Gear Sales

Product knowledge is all important when it comes to sales. With so many different types of rope and lifting gear accessories available, how do you get ahead of the competition?

We know the products, their strengths, characteristics and performance. We can help your sales teams sell the benefits of your products.

## Training for Warehouse Personnel

We offer training for warehouse operatives in health and safety, risk assessment, manual and mechanical handling. Fork lift truck training (ITSSAR and/or RTITB) to HSE guidelines.

## Training for those Working in Confined Spaces

When working in confined spaces, knowledge of safe working practices and the correct use of equipment is vital in order to avoid accidents.

On-site training, tailored to meet specific requirements, is also an option.

## Training for Engineers, Inspectors and Examiners

We carry out training for insurance engineers, inspectors, and examiners and our wire rope and lifting gear examiners programmes are internationally accepted as the standard.

## Training for Operators, Users and Maintenance Personnel

Safe use, operator and maintenance programmes for most lifting applications, appliances and tasks. If we do not have a listed course for your specific need then we will tailor one to suit.

## Training for Instructors

Our associate consultants are leading experts in wire rope, lifting gear, lifting operations and training. We offer invaluable advice and continued support to prospective trainers and coaches of lifting operations in all industries.

## Training for Welders

Welding training is carried out by our associates who have over 20 years experience. A unique friendly expert service based on quality and reliability is guaranteed. Optional certificate to any National or International standard.

## Further Information

If you would like any further information, please feel free to contact us. You can also visit our website, where you can download comprehensive details for all of our training courses.

## Carl Stahl Evita Limited

Course Name
Fork Lift Truck Instructor
Fork Lift Truck Operator
Fork Lift Truck Instructor Development
Side Loader
Pedestrian Operated Powered Pallet Truck
Wire Rope Examiners
Wire Rope Appreciation
Wire Rope Training for Sales
Wire Rope Management
Wire Rope Product Safety, Handling and Installation
Wire Rope Mechanical Splicing
Wire Rope Hand Splicing
Wire Rope Socketing
Lifting Gear Examination
Lifting Operations Instructors
Management of Lifting Operations
Lifting and Slings Safety
Mobile Elevated Work Platform Safety Awareness
LOLER & PUWER Regulations
Lorry Mounted Crane
Safe Operation of Overhead Travelling Crane
Appointed Persons (Foundation)
Confined Space Entry
Breathing and Escape Sets
Vessel Entry
Medium Risk Confined Space
Confined Space Entry Management & Supervisor
IOSH Managing Safety
Manual Handling Instructor
CIEH Principles of Manual Handling
CIEH Foundation in Health & Safety in the Workplace
Risk Assessment
CIEH Principles of COSHH
Power Tool Awareness
Abrasive Wheel Safety
Abrasive Wheel Instructor
Working at Height Regulations
Safe Use of Ladders
Asbestos Awareness
Noise at Work Regulations
Metal Inert/Active Gas Welding
Manual Metal Arc Welding
Tungsten Inert Gas Welding
Oxy-Fuel Gas Safety & Cutting






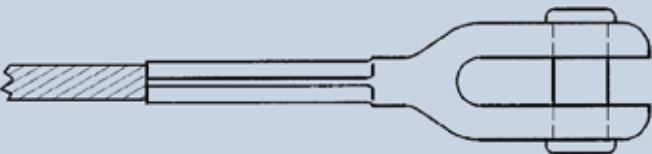
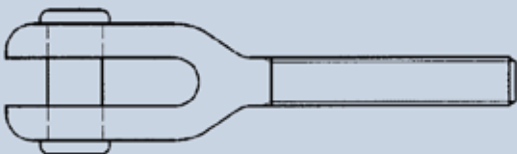
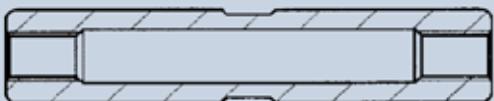
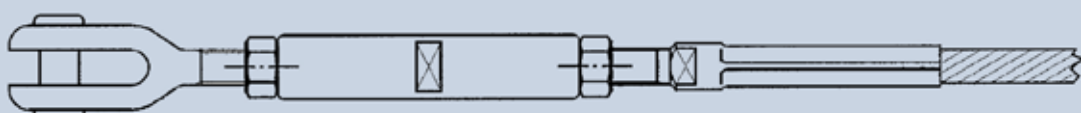
ARCHITEKTUR  
ARCHITECTURE

[www.carlstahl-architektur.de](http://www.carlstahl-architektur.de)





European Organisation for Technical Approvals

<p>Swaged external threaded end connector</p> 	<p>Swaged fork end connector</p> 
<p>Fork end connector with external thread</p> 	<p>Turnbuckle</p> 
<p>Combination of turnbuckle with swaged external threaded end connector and screwed in fork end connector</p> 	

**Carl Stahl Wire Ropes I-SYS**  
System, components

**Carl Stahl GmbH**  
Postweg 41  
D-73079 Sussen  
architektur@carlstahl.com

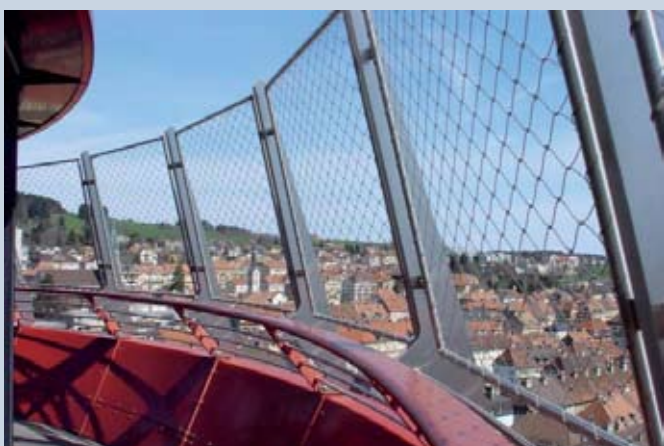
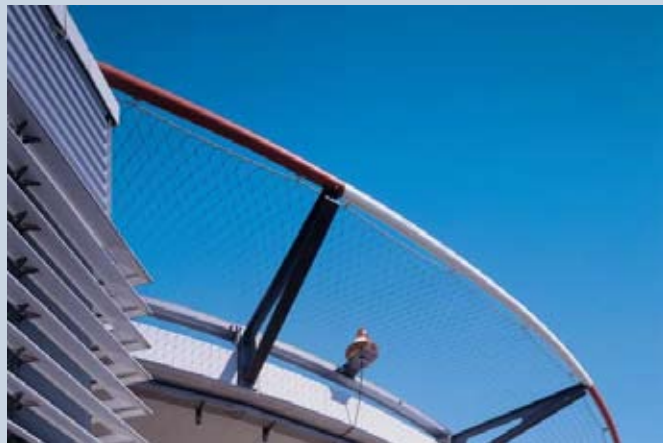


**Annex 1**  
to European  
Technical Approval

Page 8 of ETA-10/0358, issued on 27 October 2010  
English translation by Deutsches Institut für Bautechnik (DIBt)







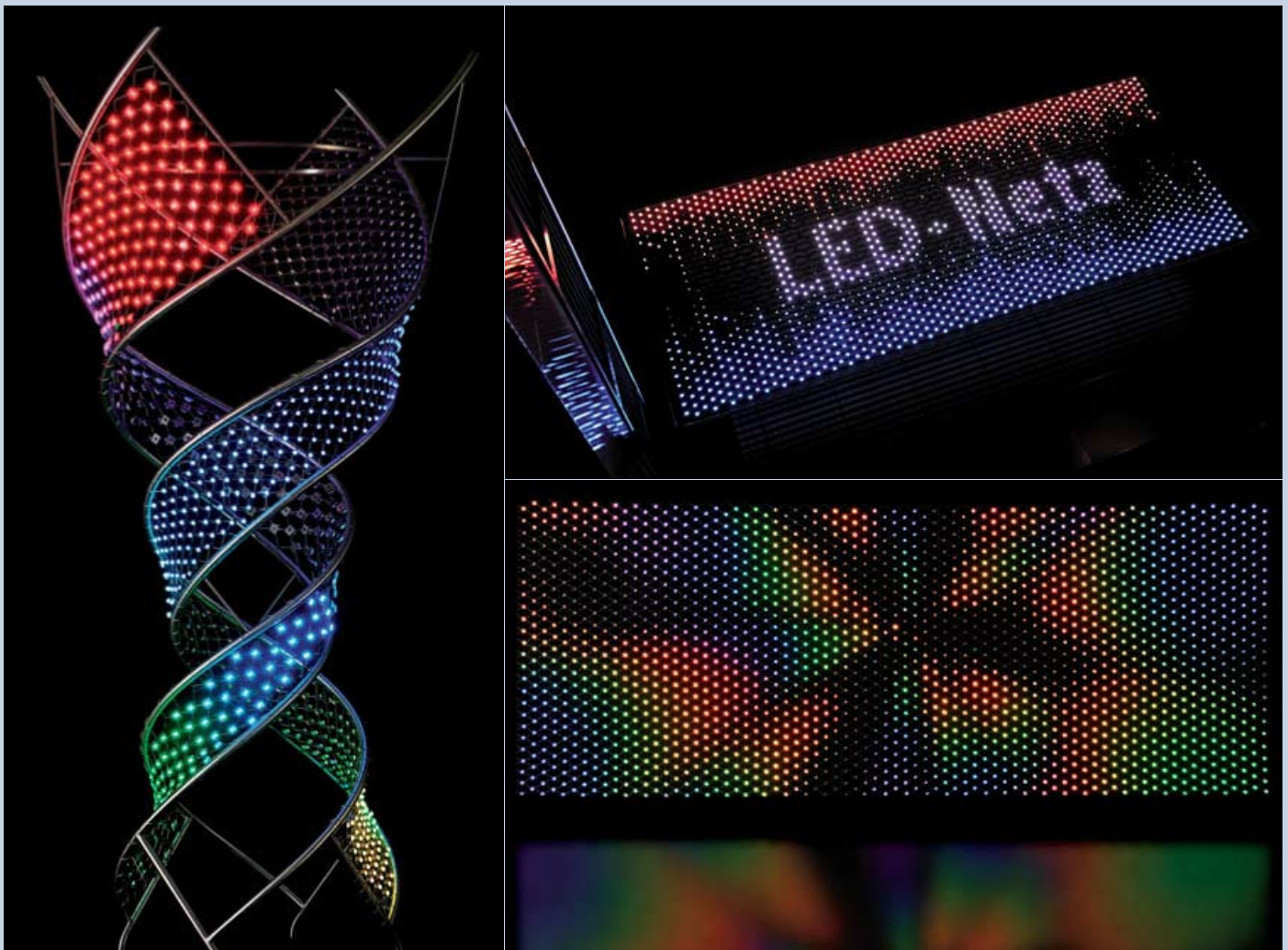


**X-LED**, die Kombination des bekannten Edelstahlnetzes **X-TEND** mit einem LED-Lichtmodulsystem. Die Trägerstruktur **X-TEND** ist die Verbindung von Edelstahlseilen und Klemmen und erlaubt somit vielfältige Formen vorgespannter Seilnetzkonstruktionen. Die Verknüpfung des LED-Lichtmodulsystems mit dem transparenten und filigran wirkenden Edelstahlnetz **X-TEND** ermöglicht völlig neue Gestaltungsansätze der modernen Architekturbeleuchtung und Architekturinszenierung. Dieses neuartige architektonische Gestaltungselement erlaubt die mediale Bespielung zweidimensionaler Flächen bis hin zu drei-dimensional geformten Körpern.

Die Darstellung bewegter Bilder, Animationen und Videoinhalten war eine Maxime bei der Entwicklung von **X-LED**. Neben der Möglichkeit einer Videodarstellung bietet das System **X-LED** eine maximale Transparenz bei bester Videodarstellung.

**X-LED** is the combination of the proven stainless steel mesh **X-TEND** with an ultra modern LED light module system. The basis is built upon **X-TEND** which is a connection of stainless steel cables and ferrules which allows multifaceted designs of pre-stressed cable constructions. The composition of the LED light module system with the transparent and delicate properties of **X-TEND** mesh offers new forming concepts of modern architectural illumination and orchestration. This novel design feature allows the medial performance of two dimensional faces culminating in three dimensional moulded bodies.

The presentation of moving pictures, animations and video content was paramount during the development of **X-LED**. In addition to the facility of a video presentation, the **X-LED** system offers maximum transparency whilst offering the best quality video display.



### Produktvorteile von X-LED

- ▶ hohe Licht- und Winddurchlässigkeit (z.B. 75 % bei Maschenweite 90 mm)
- ▶ freie Bild-/Lichtpunktfestlegung von 40 - 300 mm
- ▶ 3D-formbar
- ▶ geringes Eigengewicht
- ▶ videotauglich (DVI, VGA)
- ▶ Schutzgrad IP-66, outdoorfähig
- ▶ flexible Größendefinition

### Advantages of X-LED

- ▶ high transparency (75 % at mesh width 90 mm)
- ▶ free definition of pixel size between 40 - 300 mm
- ▶ 3D-modeling
- ▶ low self-weight
- ▶ video compatible (DVI, VGA)
- ▶ protection rating IP-66, outdoor weathering resistance
- ▶ flexible dimensions





X-TEND ,  
The flexible stainless steel net.  
Nets consisting of stainless steel cables  
Ø 1 - 4 mm and mesh width  
of 25 - 400 mm.



Green Wall Systems,  
Wall holder, cables and nets for  
delicate and abiding green areas.



I-SYS ,  
the stainless steel cable system.  
Cables of Ø 1 - 26 mm  
and about 1200 fitting parts.



X-LED ,  
the cable net combined  
with a LED-light module system.



I-SYS Edition ,  
a choice of the most established  
I-SYS components.



General planning approval for  
cable mesh constructions\*



POSILOCK ,  
the delicate cable system for interior  
work, booth and store construction.  
Cables of Ø 1 - 3 mm and  
individually combinable fitting parts.



General planning approval for  
cable bars\*

▶ Our successful Products

Wire Rope Slings



Chain Slings



Webbing Slings



Lifting Points



Special Wire Ropes



Load Suspension Equipment



Manual Hoists



Crane Systems



Grommet Slings



Load Restraint



Accessories



Training and seminars



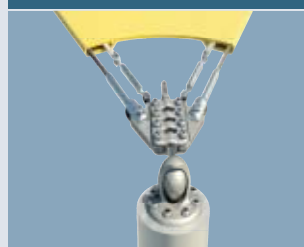
Stainless Steel Cable System I-SYS



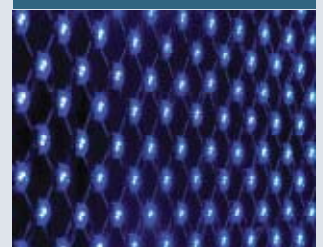
Stainless Steel Net X-TEND



TENNECT



X-LED





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