# Steel Chains

Manufactured by **Brevetti Stendalto**

CAVOTEC

# Steel Chains

## Who we are

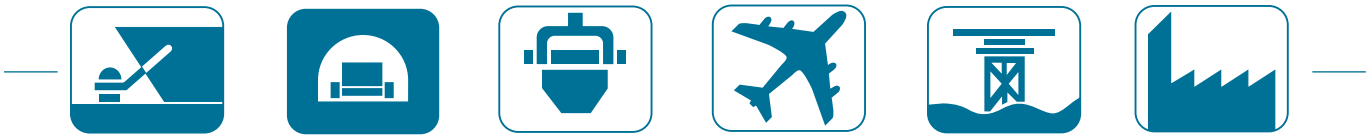
Cavotec is a multi-national group of companies serving the following industries: mining and tunnelling, ports and maritime, steel and aluminium, energy and offshore, airports, general industry and automation. In the early 1960's our main focus was the design and production of motorised cable reels primarily for manufacturers of tower cranes, harbour cranes and mining equipment. Today, Cavotec is connecting mobile equipment around the world in many diverse applications.

## Where we are

The Cavotec Group consists of 7 manufacturing "Centres of Excellence" located in Canada, France, Germany, Italy, Norway and Sweden and by 5 local manufacturing units located in Australia, China, Germany and the USA. For the distribution of products and providing support to customers Cavotec has 27 sales companies which, together with a network of distributors, serve more than 30 countries in five continents.
The ultimate objective is to be perceived as "local everywhere".

## How we work

Our aim is to work closely with our customers in order to build long-term partnerships. To achieve this aim we have created a working environment that attracts the best people, encourages them to stay and brings out their best qualities. By producing totally reliable systems and backing them with efficient service, we strive to create true customer satisfaction.



## Brevetti Stendalto

Founded in 1976 in Italy, Brevetti Stendalto was the first company ever to produce cable chains made from nylon. The production of this revolutionary concept marked the beginning of the global introduction of this new system to protect cables and hoses. Today, the company is an acknowledged leader and one of the most important manufacturers of nylon and steel cable chains in Europe.

Through their long standing partnership with the Cavotec Group, the company's products are also present in the energy and off-shore sector where their specially designed Steel Chains are the accepted method to protect cables and hoses in applications exposed to the very harsh operating conditions prevalent in this sector.

Thanks to their innovative design, the Steel Chains provide considerable efficiency and cost gains by allowing the application to move faster while fully protecting the cables and hoses inside. The chains allow for any type of combination of cables and are easy to maintain. Extensive endurance tests carried out by leading offshore operators and certification institutes have proven the reliability of the system even in the most extreme working conditions.

# Cavotec Group Organisation

*As shown here the Cavotec Group is organised to support its customers around the world through its manufacturing units and sales companies.*

*Each Cavotec manufacturing company, no matter where it is located, aims at being a market leader in its field by providing innovative and reliable products to Group customers.*

*Each Cavotec sales company, in the 27 countries where they operate, aims at better serving its local market following the Group philosophy "to be local everywhere".*

## Manufacturing network

### Centres of Excellence

**France**
**Cavotec RMS**
*Spring Driven Reels*

**Germany**
**Cavotec Alfo**
*Spring Driven Reels*
*Slipring Columns*

**Cavotec Fladung**
*Aircraft Support Systems*
*Security Systems*

**Italy**
**Cavotec Specimas**
*Motorized Cable Reels*
*Panzerbelt Cable Protection*
*Slipring Columns*

**Norway**
**Cavotec Micro-control**
*Radio Remote Controls*

**Sweden**
**Cavotec Connectors**
*Electrical Plugs & Sockets*

**New Zealand**
**Cavotec MoorMaster**
*Automated Mooring Systems*

### Local Manufacturing

**Australia**
**Cavotec Australia**
*Motorized Cable Reels*

**China**
**Cavotec China**
*Product Assembly*

**Germany**
**Cavotec Micro-control**
*Radio Remote Controls*

**Sweden**
**Cavotec Sweden**
*Product Assembly*

**USA**
**Cavotec USA**
*Product Assembly*

### Group Partners

**Belgium**
**Gantry**
*Crane Rail Systems*

**Italy**
**Brevetti Stendalto**
*Cable Chains*
**Prysmian (Pirelli)**
*Flexible Cables*
**Tratos Cavi**
*Flexible Cables*

## Sales network

### Cavotec Sales Companies

Cavotec Australia
Cavotec Belgium*
Cavotec BeNeLux
Cavotec Brazil*
Cavotec Canada
Cavotec Chile
Cavotec China
Cavotec Denmark
Cavotec Finland
Cavotec France
Cavotec Germany
Cavotec Hong Kong
Cavotec India
Cavotec Italy
Cavotec Korea
Cavotec Latin America
Cavotec Mexico
Cavotec Middle East
Cavotec Norway
Cavotec Russia*
Cavotec Singapore
Cavotec South Africa
Cavotec Sweden
Cavotec Turkey
Cavotec UK & Ireland
Cavotec USA

* Branch Office

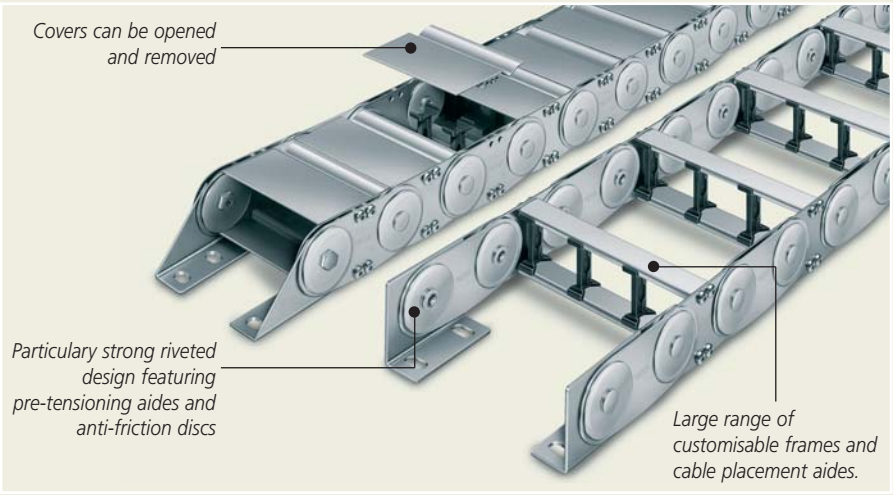
# General Information

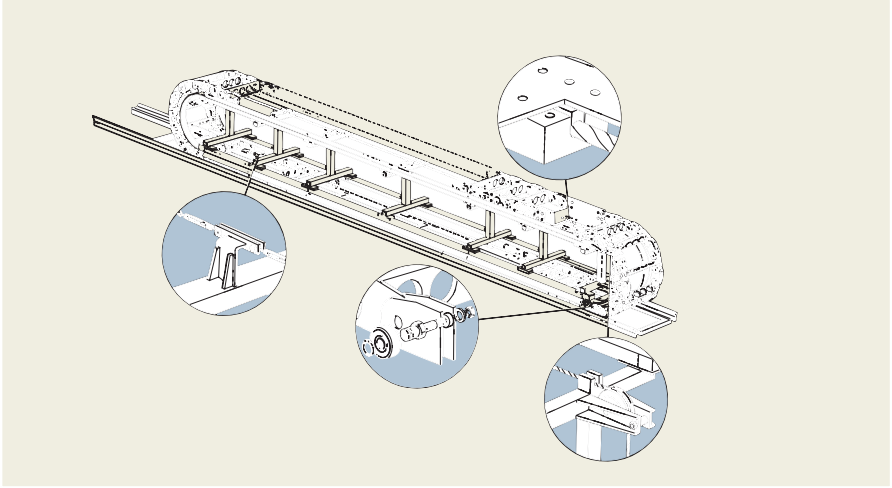
Specific applications, characterised by particularly aggressive working conditions, require cable chains in steel. Since the very beginning Brevetti Stendalto has offered their own range of steel cable chains designed to meet the ever increasing requirements from industry operators. Thanks to their uncompromising stance on providing only high quality and totally reliable cable chains, Brevetti Stendalto steel chains can be found in a multitude of applications in all types of industries around the world.

The internal and external links used in Brevetti steel chains are made of mild steel which has been bright zinc plated. These are separated by anti-friction spacers or with bronze spacers for high temperature applications. For special applications the steel components can be made from stainless steel AISI 316.

Internal cross elements are either two aluminium blocks, pre-cut with apertures for cables and hoses, or special rods with moveable separators. Special disc springs are installed to compensate for any play between pivot points.

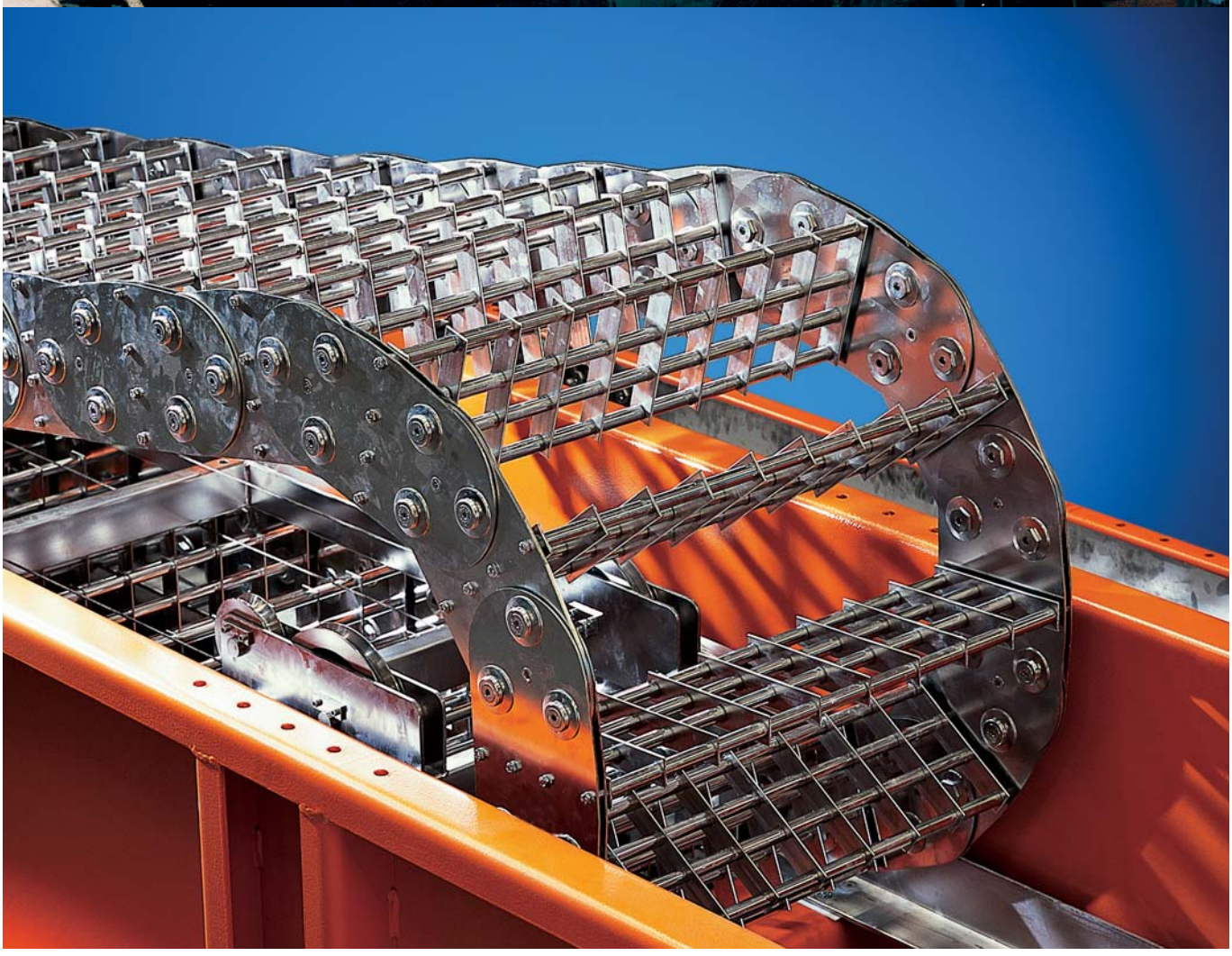
For special applications with long travel distances Brevetti Stendalto has developed its own system based on two steel drag chains and a travelling internal support frame. As shown in the drawing on the right, the chains are arranged in a closed loop configuration, and are fitted with a fixed bracket and a movable towing bracket. A second similarly closed loop, made of steel wire rope, drives the supporting frame along the entire travel at a suitable speed. This configuration ensures a continuous loop which relieves all stresses.



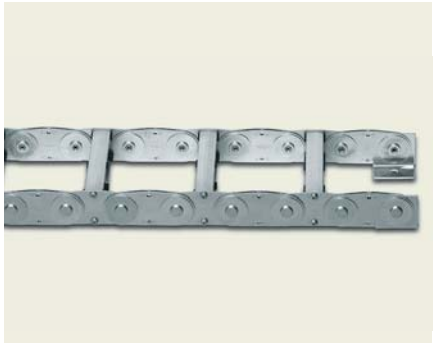
*A steel chain application in action on a de-iceing installation at Munich Airport.*

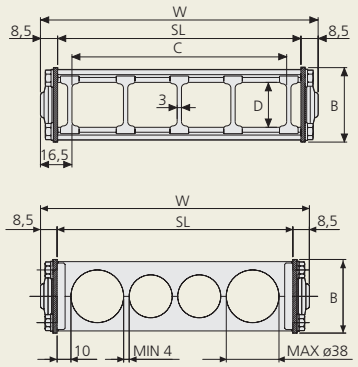

NEPT



# Steel Chains
## *BS2000 (32 mm)*

### CABLE CHAINS IN BRIGHT ZINC PLATED STEEL






This cable chain features a strong double share-link construction, single rivet fixing and a large washer and nylon anti-friction disk which ensures smooth movement and durability. The Alu-draw frames (T) and Alu-drilled plates (TL) can be unscrewed from either side. As a standard, frames are fitted every second link but, on request, frames can be fitted every link. Vertical and horizontal separator kits are available for this chain and it can also be supplied in stainless steel.

**Technical characteristics**
Speed: 0,5 m/s; acceleration: 2 m/s²

Please complete the **code** with the serial number and **radius** value (R)

e.g.: 2000NT154 2 5 0 ☐

Add additional information for chains with continuous Alu-draw frames

e.g.: 2000NT154 2 5 0 D

Please complete the code by inserting the value of the quote C and the radius (R)

e.g.: 2000NT 1 2 3 2 5 0 D

**Separator**
- unassembled: part.no S306CO
- assembled: part.no S306COMC

### Aluminium draw plates with separators in nylon

| A mm | B mm | C mm | D mm | R mm | Weight/m kg | Chain part number |
|---|---|---|---|---|---|---|
| 112 | 53 | 79 | 32 | 075-115-150-205-250-305 | 4,90 | 2000NT079☐☐☐ |
| 137 | 53 | 104 | 32 | 075-115-150-205-250-305 | 5,00 | 2000NT104☐☐☐ |
| 187 | 53 | 154 | 32 | 075-115-150-205-250-305 | 5,30 | 2000NT154☐☐☐ |
| 237 | 53 | 204 | 32 | 075-115-150-205-250-305 | 5,60 | 2000NT204☐☐☐ |
| 287 | 53 | 254 | 32 | 075-115-150-205-250-305 | 5,80 | 2000NT254☐☐☐ |
| 337 | 53 | 304 | 32 | 075-115-150-205-250-305 | 6,10 | 2000NT304☐☐☐ |
| C+33 | 53 | .... | 32 | 075-115-150-205-250-305 | | 2000NT☐☐☐☐☐☐ |

### Aluminium split cross piece

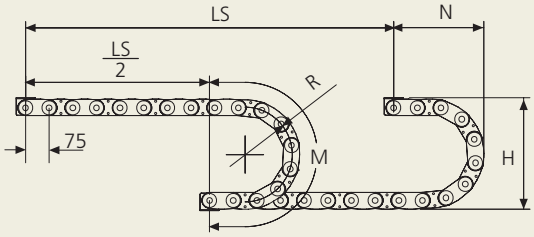
| W mm | B mm | R mm | Chain part number |
|---|---|---|---|
| SL+17 | 53 | 075-115-150-205-250-305 | 2000NTL☐☐☐☐☐☐ |

Please complete the **code** with the value SL and **radius** value (R)

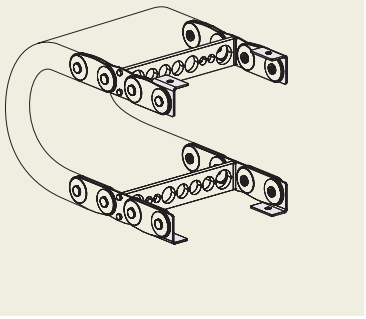
e.g.: 2000NT154 1 5 0 2 5 0

| R mm | H* mm | N mm | M mm |
|---|---|---|---|
| 075 | 214 | 180 | 390 |
| 115 | 294 | 220 | 515 |
| 150 | 364 | 255 | 625 |
| 205 | 474 | 310 | 795 |
| 250 | 564 | 360 | 940 |
| 305 | 674 | 410 | 1110 |

* The total space taken in height may vary up to 10mm/m in relationship to the pre-set.



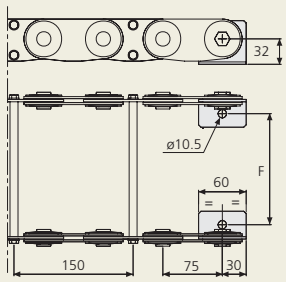

*Length of chains (L), half travel distance ($\frac{LS}{2}$) plus length of curve (M)* $\quad L = \frac{LS}{2} + M$



**End-brackets**
The end-brackets for this chain are completely bright zinc plated. A single set comprises four steel end-brackets which can be installed on the links enabling the chain to be fixed to the actual equipment.

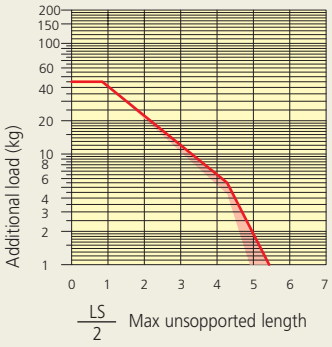
| Chain type | Description | End-brackets set |
|---|---|---|
| BS2000..... | Complete set assembled | A2000NKM |

| Chain type | Description | End-brackets set |
|---|---|---|
| BS2000..... | Complete set unassembled | A2000NK |

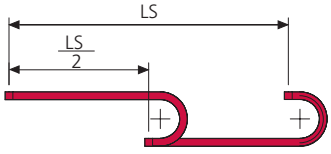



| Chain type | F mm |
|---|---|
| BS2000NT079 | 65 |
| BS2000NT104 | 90 |
| BS2000NT154 | 140 |
| BS2000NT204 | 190 |
| BS2000NT254 | 240 |
| BS2000NT304 | 290 |

Special dimension F=W-47

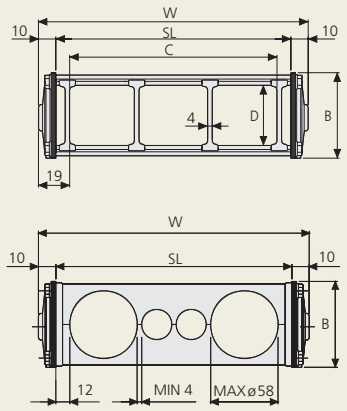



**Self-supporting capacity diagram**
The diagram on the left, together with drawing below, shows the relationship between the maximum self-supporting capacity length $\frac{LS}{2}$ and the weight of cables and hoses contained per linear meter. The red shading in the diagram highlights the difference of weight between various widths of chain assembled with aluminium draw plates every second pitch. For applications with $\frac{LS}{2}$ and weights not included in the diagram, please contact your local Cavotec office.



# Steel Chains
## *BS3000 (52 mm)*

### CABLE CHAINS IN BRIGHT ZINC PLATED STEEL




This cable chain features a strong double share-link construction, single rivet fixing and a large washer and nylon anti-friction disk which ensures smooth movement and durability. The Alu-draw frames (T) and Alu-drilled plates (TL) can be unscrewed from either side. As a standard, frames are fitted every second link but, on request, frames can be fitted every link. Vertical and horizontal separator kits are available for this chain and it can also be supplied in stainless steel.

**Technical characteristics**
Speed: 0,5 m/s; acceleration: 2 m/s²

Please complete the **code** with the serial number and **radius** value (R)

e.g.: 3000NT156 2 5 0 ☐

Add additional information for chains with continuous Alu-draw frames

e.g.: 3000NT156 2 5 0 D

Please complete the code by inserting the value of the quote C and the radius (R)

e.g.: 3000NT 1 2 3 2 5 0 D

### Aluminium draw plates with separators in nylon

| A mm | B mm | C mm | D mm | R mm | Weight/m kg | Chain part number |
|---|---|---|---|---|---|---|
| 144 | 74 | 106 | 52 | 150-220-250-305-400-535 | 7,40 | 3000NT106☐☐☐ |
| 194 | 74 | 156 | 52 | 150-220-250-305-400-535 | 7,60 | 3000NT156☐☐☐ |
| 244 | 74 | 206 | 52 | 150-220-250-305-400-535 | 7,80 | 3000NT206☐☐☐ |
| 294 | 74 | 256 | 52 | 150-220-250-305-400-535 | 8,00 | 3000NT256☐☐☐ |
| 344 | 74 | 306 | 52 | 150-220-250-305-400-535 | 8,20 | 3000NT306☐☐☐ |
| C+38 | 74 | .... | 52 | 150-220-250-305-400-535 | | 3000NT☐☐☐☐☐☐ |

### Aluminium split cross piece

| W mm | B mm | R mm | Chain part number |
|---|---|---|---|
| SL+20 | 74 | 150-220-250-305-400-535 | 3000NTL☐☐☐☐☐☐ |

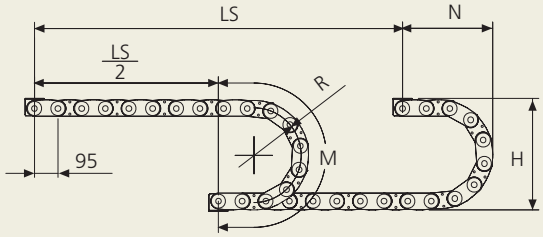
Please complete the **code** with the value SL and **radius** value (R)

e.g.: 3000NTL 1 5 0 2 5 0

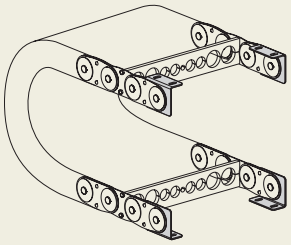
**Separator**
- unassembled: part.no S308CO
- assembled: part.no S308COMC

| R mm | H* mm | N mm | M mm |
|---|---|---|---|
| 150 | 388 | 290 | 670 |
| 220 | 528 | 360 | 890 |
| 250 | 588 | 385 | 980 |
| 305 | 698 | 440 | 1150 |
| 400 | 888 | 540 | 1450 |
| 535 | 1158 | 675 | 1880 |

* The total space taken in height may vary up to 10mm/m in relationship to the pre-set.



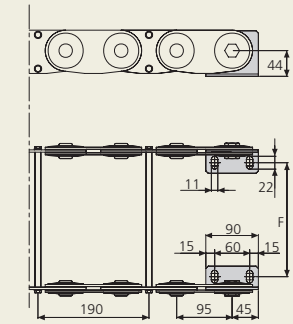

*Length of chains (L), half travel distance ($\frac{LS}{2}$) plus length of curve (M)* $\quad L = \frac{LS}{2} + M$



**End-brackets**
The end-brackets for this chain are completely bright zinc plated. A single set comprises four steel end-brackets which can be installed on the links enabling the chain to be fixed to the actual equipment.

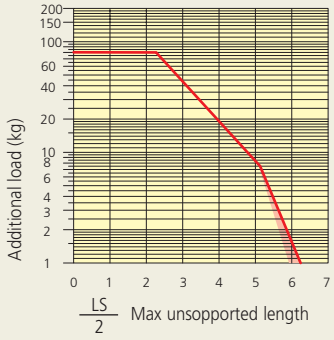
| Chain type | Description | End-brackets set |
|---|---|---|
| BS3000..... | Complete set assembled | A3000NKM |

| Chain type | Description | End-brackets set |
|---|---|---|
| BS3000..... | Complete set unassembled | A3000NK |

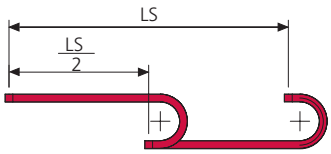



| Chain type | F mm |
|---|---|
| BS3000NT106 | 88 |
| BS3000NT156 | 138 |
| BS3000NT206 | 188 |
| BS3000NT256 | 238 |
| BS3000NT306 | 288 |

Special dimension F=W-56

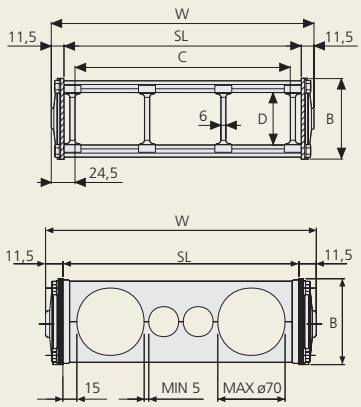



**Self-supporting capacity diagram**
The diagram on the left, together with drawing below, shows the relationship between the maximum self-supporting capacity length $\frac{LS}{2}$ and the weight of cables and hoses contained per linear meter. The red shading in the diagram highlights the difference of weight between various widths of chain assembled with aluminium draw plates every second pitch. For applications with $\frac{LS}{2}$ and weights not included in the diagram, please contact your local Cavotec office.



# Steel Chains
## *BS3500 (65 mm)*

### CABLE CHAINS IN BRIGHT ZINC PLATED STEEL




This cable chain features a strong double share-link construction, single rivet fixing and a large washer and nylon anti-friction disk which ensures smooth movement and durability. The Alu-draw frames (T) and Alu-drilled plates (TL) can be unscrewed from either side. As a standard, frames are fitted every second link but, on request, frames can be fitted every link. Vertical and horizontal separator kits are available for this chain and it can also be supplied in stainless steel.

**Technical characteristics**
Speed: 0,5 m/s; acceleration: 2 m/s²

Please complete the **code** with the serial number and **radius** value (R)

e.g.: 3500NT154 **2** **5** **0** ☐

Add additional information for chains with continuous Alu-draw frames

e.g.: 3500NT154 **2** **5** **0** **D**

Please complete the code by inserting the value of the quote C and the radius (R)

e.g.: 3500NT **1** **2** **3** **2** **5** **0** **D**

### Aluminium draw plates with separators in nylon

| A mm | B mm | C mm | D mm | R mm | Weight/m kg | Chain part number |
|---|---|---|---|---|---|---|
| 153 | 95 | 104 | 65 | 200-250-300-350-400-450-500-600 | 12,00 | 3500NT104☐☐☐ |
| 203 | 95 | 154 | 65 | 200-250-300-350-400-450-500-600 | 12,30 | 3500NT154☐☐☐ |
| 253 | 95 | 204 | 65 | 200-250-300-350-400-450-500-600 | 12,70 | 3500NT204☐☐☐ |
| 303 | 95 | 254 | 65 | 200-250-300-350-400-450-500-600 | 13,00 | 3500NT254☐☐☐ |
| 353 | 95 | 304 | 65 | 200-250-300-350-400-450-500-600 | 13,30 | 3500NT304☐☐☐ |
| 453 | 95 | 404 | 65 | 200-250-300-350-400-450-500-600 | 14,00 | 3500NT404☐☐☐ |
| C+49 | 95 | .... | 65 | 200-250-300-350-400-450-500-600 | | 3500NT☐☐☐☐☐☐ |

### Aluminium split cross piece

| W mm | B mm | R mm | Chain part number |
|---|---|---|---|
| SL+23 | 95 | 200-250-300-350-400-450-500-600 | 3500NTL☐☐☐☐☐☐ |

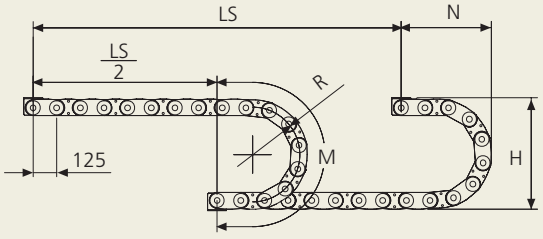
Please complete the **code** with the value SL and **radius** value (R)

e.g.: 3500NTL **1** **5** **0** **2** **5** **0**

**Separator**
- unassembled: part.no ST3500F
- assembled: part.no ST3500FMC

| R mm | H* mm | N mm | M mm |
|---|---|---|---|
| 200 | 512 | 375 | 880 |
| 250 | 612 | 425 | 1040 |
| 300 | 712 | 480 | 1200 |
| 350 | 812 | 525 | 1350 |
| 400 | 912 | 575 | 1510 |
| 450 | 1012 | 625 | 1670 |
| 500 | 1112 | 675 | 1825 |
| 600 | 1312 | 775 | 2140 |

* The total space taken in height may vary up to 10mm/m in relationship to the pre-set.

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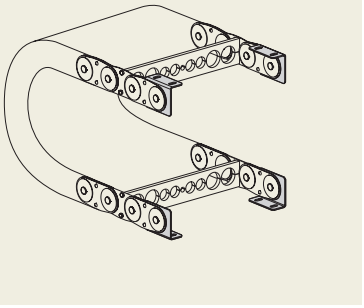
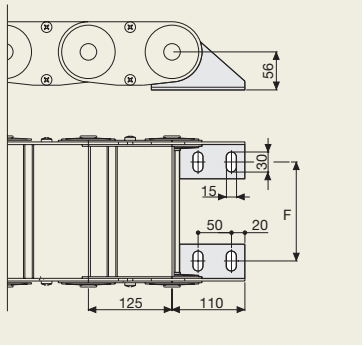


**End-brackets**
The end-brackets for this chain are completely bright zinc plated. A single set comprises four steel end-brackets which can be installed on the links enabling the chain to be fixed to the actual equipment.

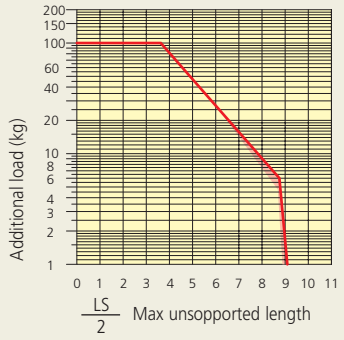
| Chain type | Description | End-brackets set |
|---|---|---|
| BS3500..... | Complete set assembled | A3500NKM |

| Chain type | Description | End-brackets set |
|---|---|---|
| BS3500..... | Complete set unassembled | A3500NK |




| Chain type | F mm |
|---|---|
| BS3500NT104 | 80 |
| BS3500NT154 | 130 |
| BS3500NT204 | 180 |
| BS3500NT254 | 230 |
| BS3500NT304 | 280 |
| BS3500NT404 | 380 |

Special dimension F=W-73

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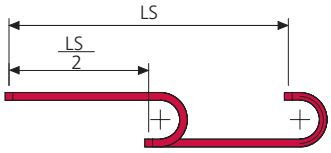
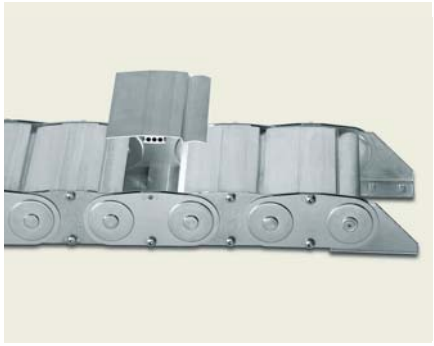


# Steel Chains
## *BS3500C (65 mm)*

### CABLE CHAINS IN BRIGHT ZINC PLATED STEEL



This cable chain features a strong double share-link construction, single rivet fixing and a large washer and nylon anti-friction disk which ensures smooth movement and durability. The strong Alu-covers can be unscrewed from either side. Vertical and horizontal separator kits are available for this chain.

**Technical characteristics**
Speed: 0,5 m/s; acceleration: 2 m/s²

Please complete the **code** with the serial number and **radius** value (R)

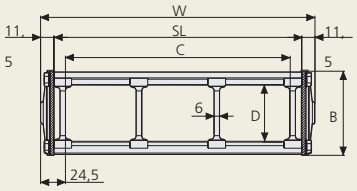
e.g.: 3500NT154 **2** **5** **0** ☐

Add additional information for chains with continuous covers

e.g.: 3500NT154 **2** **5** **0** **D**

Please complete the code by inserting the value of the quote C and the radius (R)

e.g.: 3500NT **1** **2** **3** **2** **5** **0** **D**



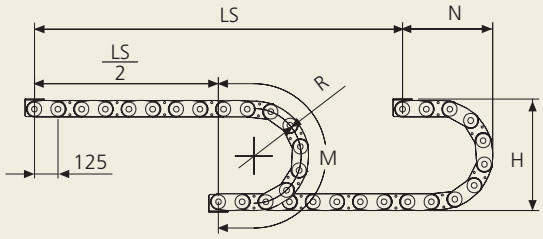

**Aluminium draw plates with separators in nylon**

| A mm | B mm | C mm | D mm | R mm | Weight/m kg | Chain part number |
|---|---|---|---|---|---|---|
| 153 | 95 | 104 | 65 | 200-250-300-350-400-450-500-600 | 13,80 | 3500NC104☐☐☐ |
| 203 | 95 | 154 | 65 | 200-250-300-350-400-450-500-600 | 14,80 | 3500NC154☐☐☐ |
| 253 | 95 | 204 | 65 | 200-250-300-350-400-450-500-600 | 15,80 | 3500NC204☐☐☐ |
| 303 | 95 | 254 | 65 | 200-250-300-350-400-450-500-600 | 16,80 | 3500NC254☐☐☐ |
| 353 | 95 | 304 | 65 | 200-250-300-350-400-450-500-600 | 17,80 | 3500NC304☐☐☐ |
| 453 | 95 | 404 | 65 | 200-250-300-350-400-450-500-600 | 19,80 | 3500NC404☐☐☐ |
| C+49 | 95 | .... | 65 | 200-250-300-350-400-450-500-600 | | 3500NC☐☐☐☐☐☐ |

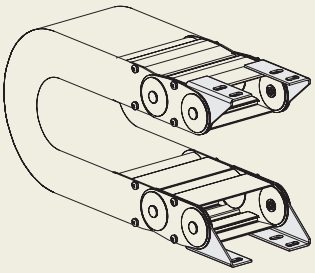
**Separator**
- unassembled: part.no ST3500F
- assembled: part.no ST3500FMC

| R mm | H* mm | N mm | M mm |
|---|---|---|---|
| 200 | 512 | 375 | 880 |
| 250 | 612 | 425 | 1040 |
| 300 | 712 | 480 | 1200 |
| 350 | 812 | 525 | 1350 |
| 400 | 912 | 575 | 1510 |
| 450 | 1012 | 625 | 1670 |
| 500 | 1112 | 675 | 1825 |
| 600 | 1312 | 775 | 2140 |

* The total space taken in height may vary up to 10mm/m in relationship to the pre-set.




*Length of chains (L), half travel distance ($\frac{LS}{2}$) plus length of curve (M)* $L = \frac{LS}{2} + M$

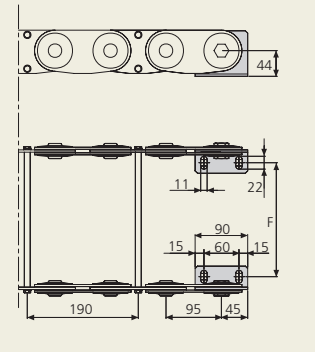


**End-brackets**
The end-brackets for this chain are completely bright zinc plated. A single set comprises four steel end-brackets which can be installed on the links enabling the chain to be fixed to the actual equipment.

| Chain type | Description | End-brackets set |
|---|---|---|
| BS3500C..... | Complete set assembled | A3500NCKM☐* |

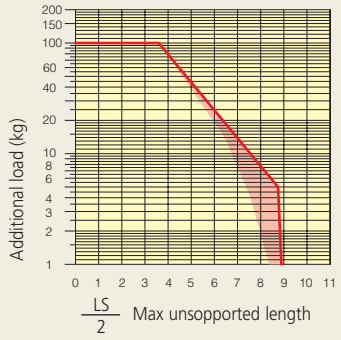
| Chain type | Description | End-brackets set |
|---|---|---|
| BS3500C..... | Complete set unassembled | A3500NCK |

* 1= pos. 1; 2= pos. 2; 3= pos. 3

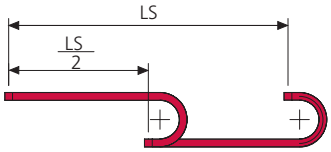



| Chain type | F mm |
|---|---|
| BS3500NCT104 | 80 |
| BS3500NCT154 | 130 |
| BS3500NCT204 | 180 |
| BS3500NCT254 | 230 |
| BS3500NCT304 | 280 |
| BS3500NCT404 | 380 |

Special dimension F=W-73

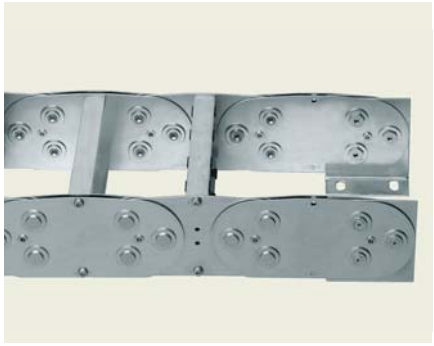


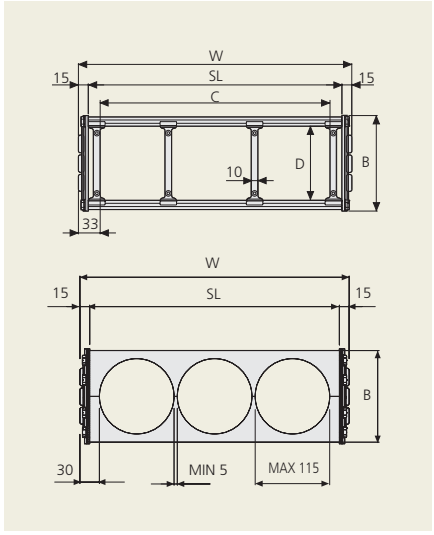

**Self-supporting capacity diagram**
The diagram on the left, together with drawing below, shows the relationship between the maximum self-supporting capacity length $\frac{LS}{2}$ and the weight of cables and hoses contained per linear meter. The red shading in the diagram highlights the difference of weight between various widths of chain assembled with aluminium draw plates every second pitch. For applications with $\frac{LS}{2}$ and weights not included in the diagram, please contact your local Cavotec office.



# Steel Chains
## *BS4000 (112,5 mm)*

### CABLE CHAINS IN BRIGHT ZINC PLATED STEEL






This cable chain features a strong double share-link construction, single rivet fixing and a large washer and nylon anti-friction disk which ensures smooth movement and durability. The Alu-draw frames (T), fitted every link, and Alu-drilled plates (TL), fitted every second link and Alu-draw frames every other link, can be unscrewed from either side. Vertical and horizontal separator kits are available for this chain and it can also be supplied in stainless steel.

**Technical characteristics**
Speed: 0,5 m/s; acceleration: 2 m/s²
Please complete the **code** with the serial number and **radius** value (R)
e.g.: 4000T150 **2** **5** **0** ☐

Add additional information for chains with continuous covers
e.g.: 4000T150 **2** **5** **0** **D**

Please complete the code by inserting the value of the quote C and the radius (R)
e.g.: 4000T **1** **2** **3** **2** **5** **0** **D**

### Aluminium draw plates with separators in nylon

| A mm | B mm | C mm | D mm | R mm | Weight/m kg | Chain part number |
|---|---|---|---|---|---|---|
| 216 | 145 | 150 | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 20,60 | 4000T150☐☐☐ |
| 266 | 145 | 200 | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 21,70 | 4000T200☐☐☐ |
| 316 | 145 | 250 | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 23,10 | 4000T250☐☐☐ |
| 366 | 145 | 300 | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 24,40 | 4000T300☐☐☐ |
| 466 | 145 | 400 | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 27,20 | 4000T400☐☐☐ |
| 566 | 145 | 500 | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 29,90 | 4000T500☐☐☐ |
| C+66 | 145 | .... | 112,5 | 250-300-350-400-450-500-550-600-700-750-850-1000 | | 4000T☐☐☐☐☐☐ |

### Aluminium split cross piece

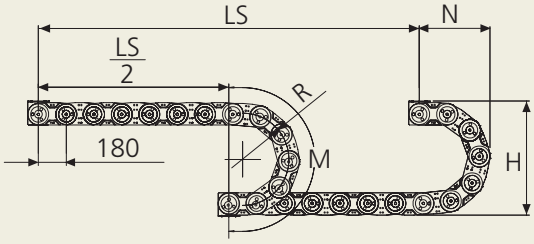
| W mm | B mm | R mm | Chain part number |
|---|---|---|---|
| SL+30 | 145 | 250-300-350-400-450-500-550-600-700-750-850-1000 | 4000NTL☐☐☐☐☐☐ |

Please complete the **code** with the value SL and **radius** value (R)
e.g.: 4000TL **1** **5** **0** **2** **5** **0**

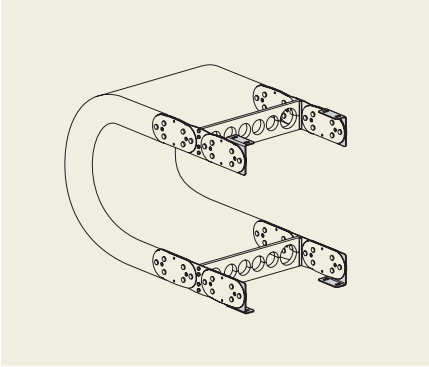
**Separator**
- unassembled: part.no ST3500F - S310TC
- assembled: part.no ST3500FMC - S310TCMC

| R mm | H* mm | N mm | M mm |
|---|---|---|---|
| 250 | 670 | 510 | 1150 |
| 300 | 770 | 555 | 1305 |
| 350 | 870 | 605 | 1460 |
| 400 | 970 | 655 | 1620 |
| 450 | 1070 | 710 | 1780 |
| 500 | 1170 | 755 | 1930 |
| 550 | 1270 | 805 | 2090 |
| 600 | 1370 | 855 | 2245 |
| 700 | 1570 | 955 | 2560 |
| 750 | 1670 | 1010 | 2720 |
| 850 | 1870 | 1105 | 3030 |
| 1000 | 2170 | 1255 | 3500 |

* The total space taken in height may vary up to 10mm/m in relationship to the pre-set.




*Length of chains (L), half travel distance ($\frac{LS}{2}$) plus length of curve (M)* **$L = \frac{LS}{2} + M$**

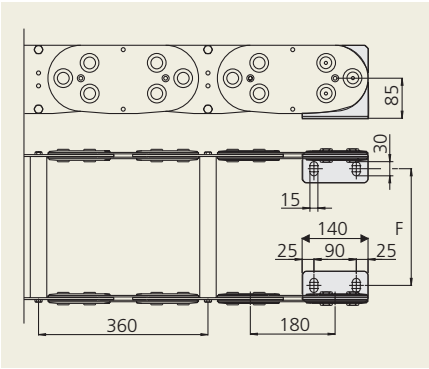


**End-brackets**
The end-brackets for this chain are completely bright zinc plated. A single set comprises four steel end-brackets which can be installed on the links enabling the chain to be fixed to the actual equipment.

| Chain type | Description | End-brackets set |
|---|---|---|
| BS4000..... | Complete set assembled | A4000KM☐* |

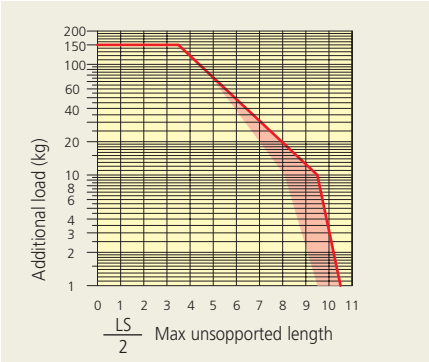
| Chain type | Description | End-brackets set |
|---|---|---|
| BS4000..... | Complete set unassembled | A4000K |

* 1= pos. 1; 2= pos. 2; 3= pos. 3

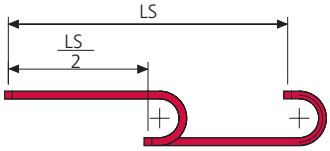



| Chain type | F mm |
|---|---|
| BS4000T150 | 136 |
| BS4000T200 | 186 |
| BS4000T250 | 236 |
| BS4000T300 | 286 |
| BS4000T400 | 386 |
| BS4000T500 | 486 |

Special dimension F=W-80

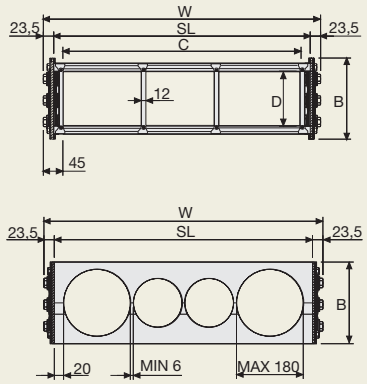



**Self-supporting capacity diagram**
The diagram on the left, together with drawing below, shows the relationship between the maximum self-supporting capacity length $\frac{LS}{2}$ and the weight of cables and hoses contained per linear meter. The red shading in the diagram highlights the difference of weight between various widths of chain assembled with aluminium draw plates every second pitch. For applications with $\frac{LS}{2}$ and weights not included in the diagram, please contact your local Cavotec office.



# Steel Chains
## *BS4500 (182 mm)*

### CABLE CHAINS IN BRIGHT ZINC PLATED STEEL




This cable chain features a strong double share-link construction, triple rivet fixing and a large washer and nylon anti-friction disk which ensures smooth movement and durability. The Alu-draw frames (T), fitted every link, and Alu-drilled plates (TL), fitted every second link and Alu-draw frames every other link, can be unscrewed from either side. Vertical and horizontal separator kits are available for this chain and it can also be supplied in stainless steel.

**Technical characteristics**
Speed: 0,5 m/s; acceleration: 2 m/s²

Please complete the **code** with the serial number and **radius** value (R)

e.g.: 4500T300 4 0 0 ☐

Add additional information for chains with continuous covers

e.g.: 4500T300 4 0 0 D

Please complete the code by inserting the value of the quote C and the radius (R)

e.g.: 4500T 1 2 3 4 0 0 D

**Separator**
- unassembled: part.no ST4500C
- assembled: part.no ST4500CMC

### Aluminium draw plates with separators in nylon

| A mm | B mm | C mm | D mm | R mm | Weight/m kg | Chain part number |
|---|---|---|---|---|---|---|
| 390 | 220 | 300 | 182 | 400-600-800-1000-1250-1500 | 46,5 | 4500T300☐☐☐ |
| 440 | 220 | 350 | 182 | 400-600-800-1000-1250-1500 | 47,5 | 4500T350☐☐☐ |
| 490 | 220 | 400 | 182 | 400-600-800-1000-1250-1500 | 48,5 | 4500T400☐☐☐ |
| 540 | 220 | 450 | 182 | 400-600-800-1000-1250-1500 | 49,0 | 4500T450☐☐☐ |
| 590 | 220 | 500 | 182 | 400-600-800-1000-1250-1500 | 49,5 | 4500T500☐☐☐ |
| 690 | 220 | 600 | 182 | 400-600-800-1000-1250-1500 | 51,0 | 4500T600☐☐☐ |
| C+90 | 220 | .... | 182 | 400-600-800-1000-1250-1500 | | 4500T☐☐☐☐☐☐ |

### Aluminium split cross piece

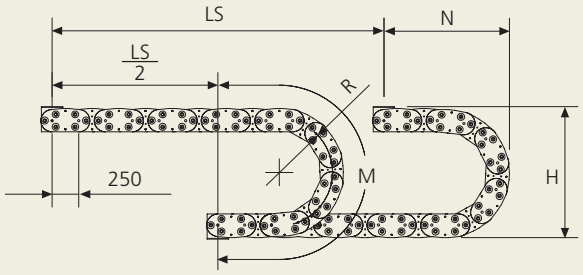
| W mm | B mm | R mm | Chain part number |
|---|---|---|---|
| SL+47 | 220 | 400-600-800-1000-1250-1500 | 4500NTL☐☐☐☐☐☐ |

Please complete the **code** with the value SL and **radius** value (R)

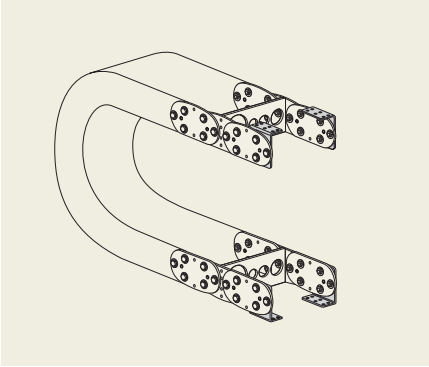
Es.: 4500TL 1 5 0 2 5 0

| R mm | H* mm | N mm | M mm |
|---|---|---|---|
| 400 | 1060 | 770 | 1760 |
| 600 | 1460 | 970 | 2390 |
| 800 | 1860 | 1170 | 3020 |
| 1000 | 2260 | 1370 | 3650 |
| 1250 | 2760 | 1620 | 4430 |
| 1500 | 3260 | 1870 | 5220 |

* The total space taken in height may vary up to 10mm/m in relationship to the pre-set.




*Length of chains (L), half travel distance ($\frac{LS}{2}$) plus length of curve (M)* $L = \frac{LS}{2} + M$

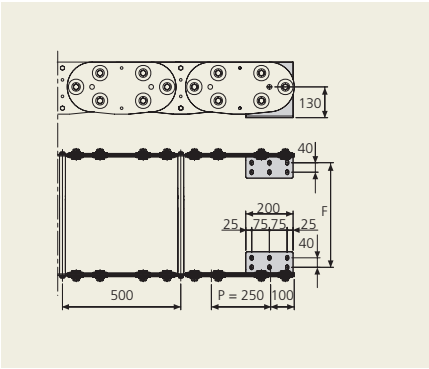


**End-brackets**
The end-brackets for this chain are completely bright zinc plated. A single set comprises four steel end-brackets which can be installed on the links enabling the chain to be fixed to the actual equipment.

| Chain type | Description | End brackets Set |
|---|---|---|
| BS4500..... | Complete set assembled | A4500KM☐* |

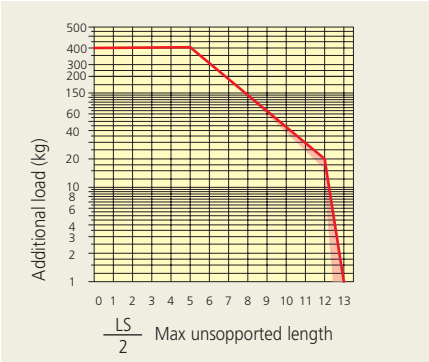
| Chain type | Description | End brackets Set |
|---|---|---|
| BS4500..... | Complete set unassembled | A4500K |

* 1= pos. 1; 2= pos. 2; 3= pos. 3ì

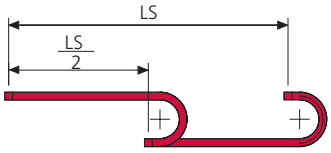


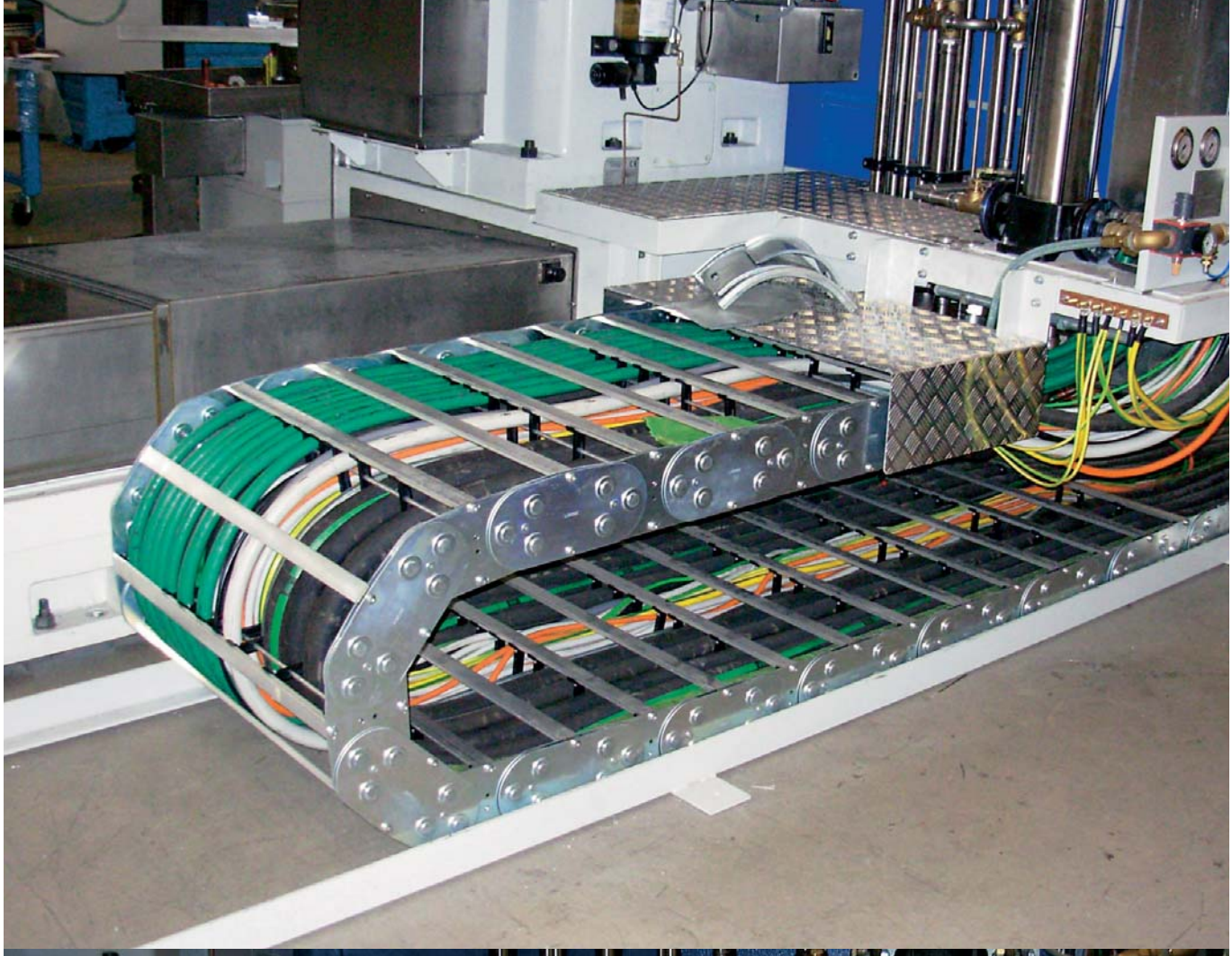

| Chain type | F mm |
|---|---|
| BS4500T300 | 285 |
| BS4500T350 | 335 |
| BS4500T400 | 385 |
| BS4500T450 | 435 |
| BS4500T500 | 485 |
| BS4500T600 | 585 |

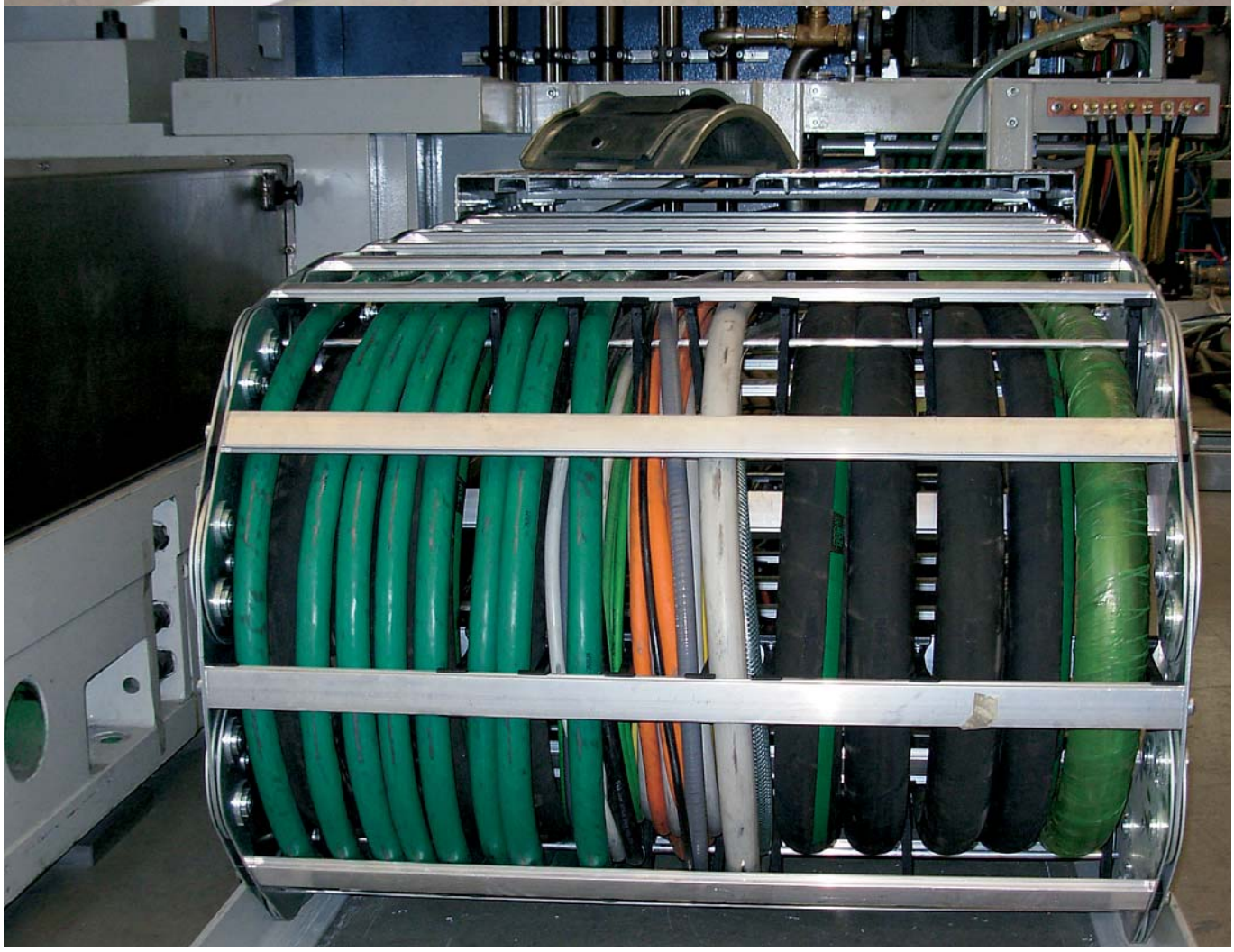
Special dimension F=W-105

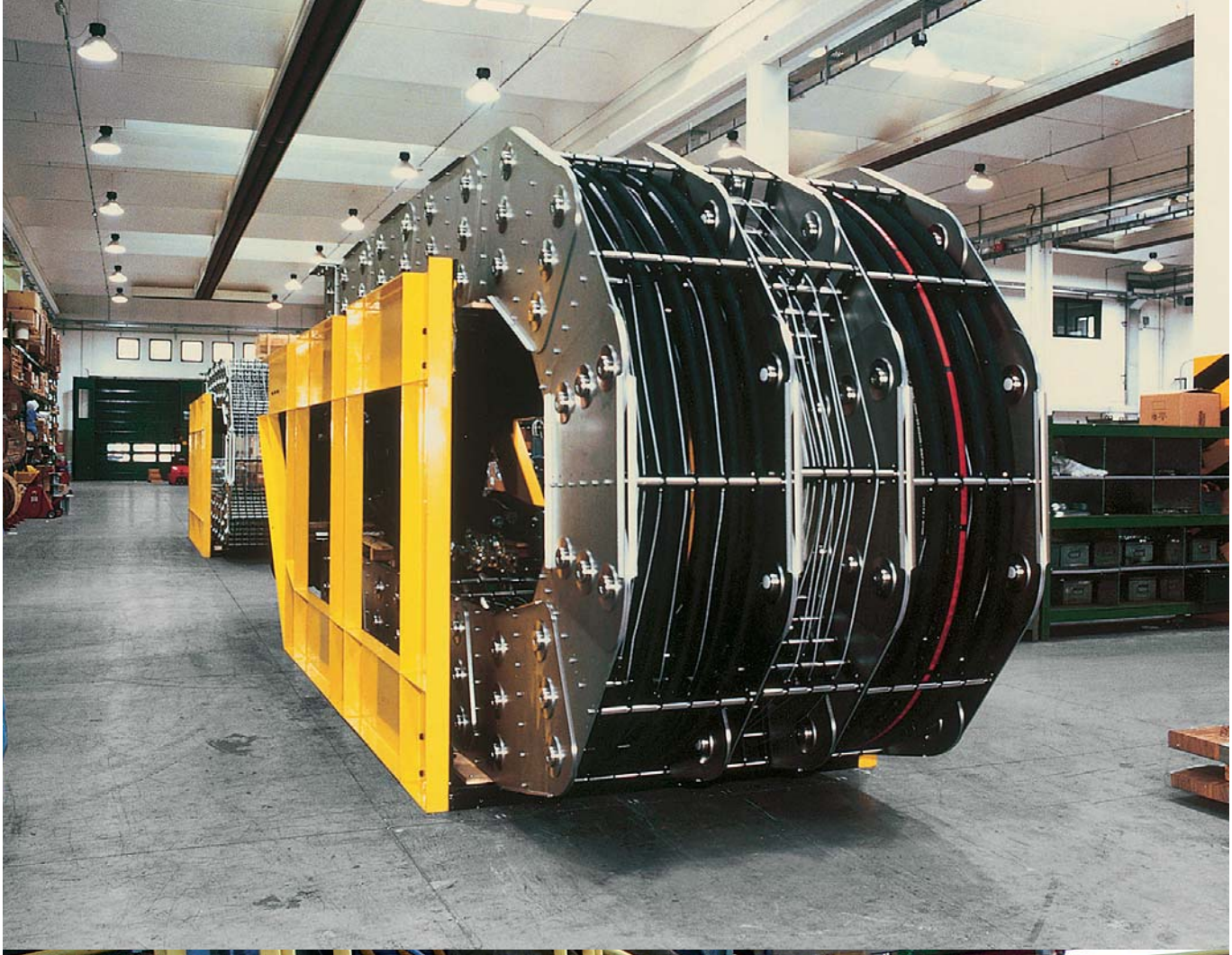



**Self-supporting capacity diagram**
The diagram on the left, together with drawing below, shows the relationship between the maximum self-supporting capacity length $\frac{LS}{2}$ and the weight of cables and hoses contained per linear meter. The red shading in the diagram highlights the difference of weight between various widths of chain assembled with aluminium draw plates every second pitch. For applications with $\frac{LS}{2}$ and weights not included in the diagram, please contact your local Cavotec office.









*Head Office*

**Cavotec MSL Holdings Ltd.**
*Cavotec MSL is listed on the* NZX

*Corporate Office*

**Cavotec (Swiss) SA**
Via Serafino Balestra 27
CH-6900 Lugano, Switzerland

*We are present in*

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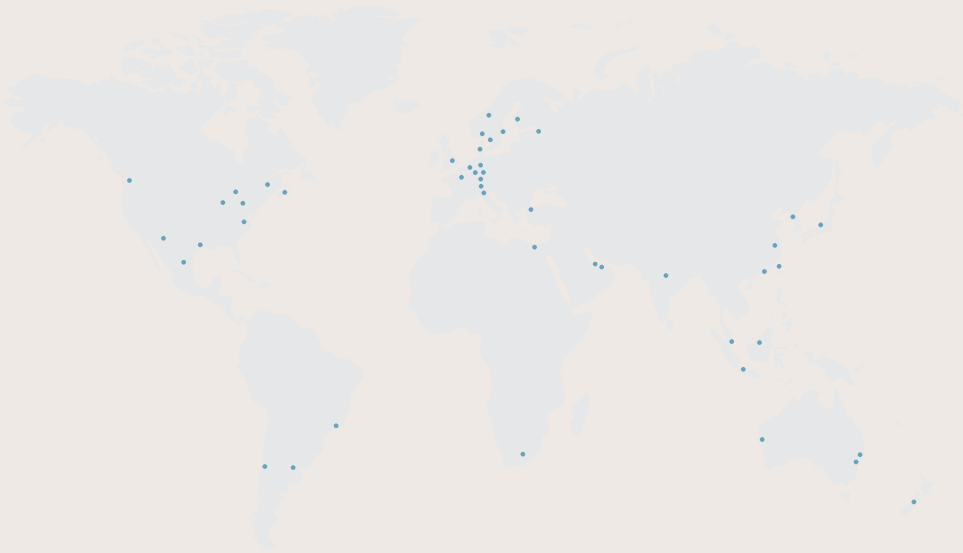

*For more information please visit our website* **www.cavotec.com**
*or contact us directly at* **info@cavotec.com**

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