







G.J. Wortelboer Jr. B.V.



WORTELBOER



FvE 1860



## COMPANY PROFILE

07 | Yachting division

09 | Service

### What we stand for

Our company is known worldwide for its ability to supply almost every type and size of anchor and chaincable. We are able to deliver promptly, because all of our products are kept in stock at our own yard, which covers roughly 18,000m<sup>2</sup>.

The combination of both quick delivery and assembly on board ensures that you will not lose valuable time.

Furthermore, we manufacture the famous Flipper Delta<sup>®</sup> anchors, which are widely used in the offshore market for lay and crane barges, multi-purpose offshore support vessels, drilling rigs, survey vessels and dredgers.

Should you need an anchor or chaincables, the best thing you can do is to come to us!

# YACHTING DIVISION





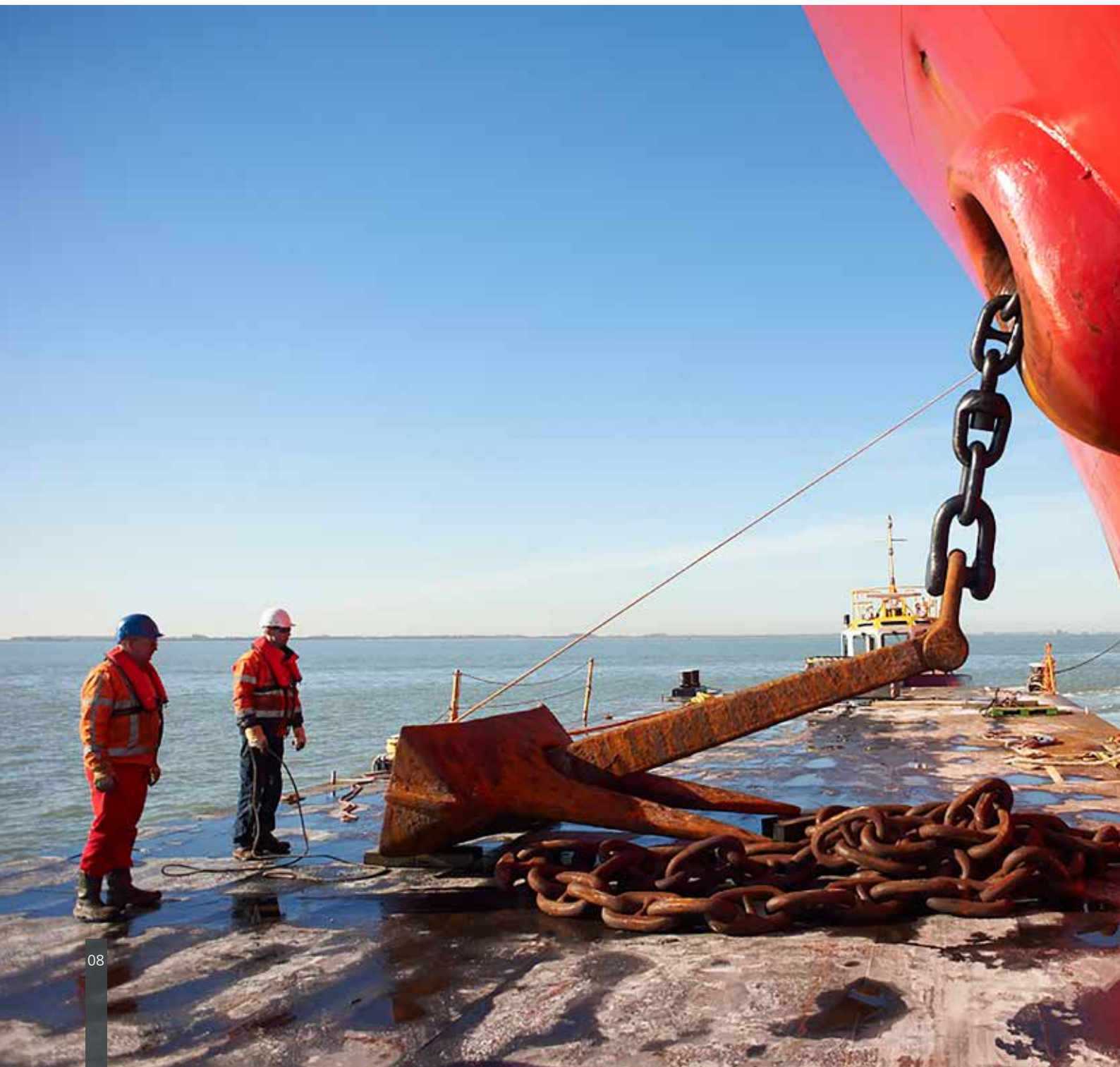
## Looking good

Sailing and motor yachts should be a feast for the eye. The finishing touch and quality are leading aspects within the yachting business and the anchors and chaincables need to look fantastic as well.

For years we supply to yacht builders all over the world. In cooperation with them we have improved the quality of our products. Our super mirror polished stainless steel and also our hot dip galvanized anchors and chaincables (shortlink and studlink) can be found on many yachts. Should you wish to hide the anchor from view, we are also able to deliver stainless steel pockets and bottom plates.

Your sail and / or motor yacht will look beautiful.

# SERVICE



## Fitting

We have a professional team that can do the testing, overhauling and replacement of all your mooring equipment during your vessel's voyage in Europe. Anchors and chaincables can be fitted on board at different locations, 24 hours a day, 7 days a week.

Our efficient way of working guarantees you that the job will be done in the quickest and most economical way.







# PRODUCTGUIDE

- 12 | Anchors
- 20 | Chaincables
- 30 | Special equipment
- 30 | Equipment table

# ANCHORS

13 | Super High Holding Power

14 | High Holding Power

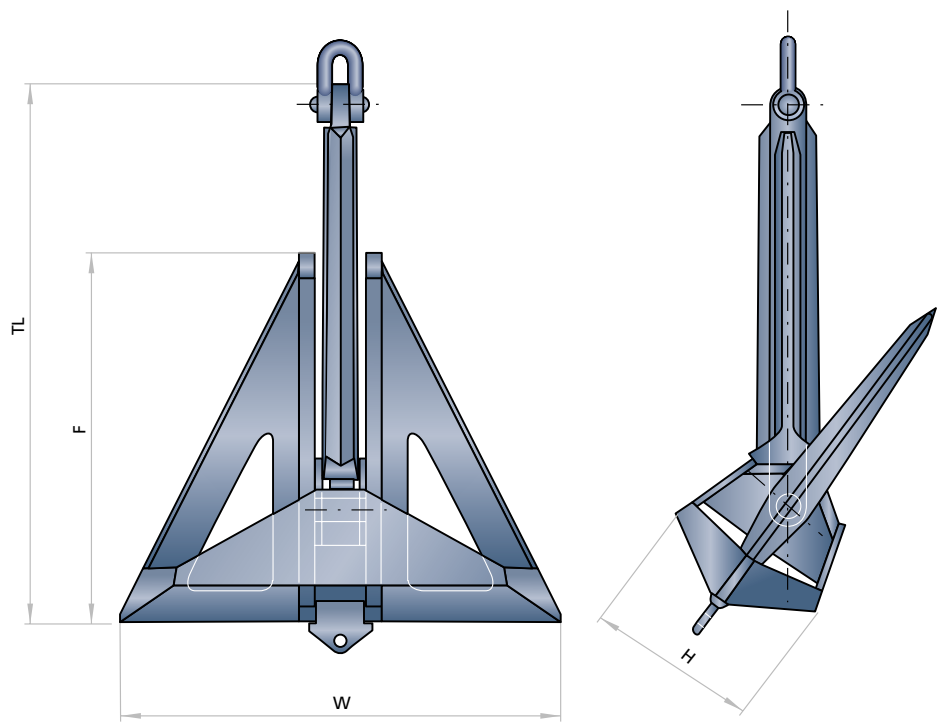
18 | Conventional



# FlipperDelta<sup>®</sup> anchor



Super High Holding Power |  
High Holding Power | Conventional



| Weight<br>[in kgs] | Dimensions [in mm] |      |      |      |
|--------------------|--------------------|------|------|------|
|                    | W                  | F    | H    | TL   |
| 500                | 1500               | 1200 | 570  | 1800 |
| 1000               | 1960               | 1560 | 740  | 2305 |
| 2000               | 2470               | 2000 | 930  | 2960 |
| 3000               | 2830               | 2285 | 1070 | 3380 |
| 5000               | 3300               | 2660 | 1260 | 3945 |
| 7000               | 3750               | 2995 | 1405 | 4440 |
| 7500               | 3850               | 3080 | 1435 | 4565 |
| 9000               | 4130               | 3320 | 1550 | 4925 |

Dimensions are not binding

| Weight<br>[in kgs] | Dimensions [in mm] |      |      |      |
|--------------------|--------------------|------|------|------|
|                    | W                  | F    | H    | TL   |
| 10000              | 4270               | 3400 | 1600 | 5040 |
| 12000              | 4530               | 3600 | 1705 | 5335 |
| 15000              | 4845               | 3875 | 1830 | 5735 |
| 22500              | 5490               | 4360 | 2060 | 6470 |
| 40000              | 6650               | 5290 | 2480 | 7850 |
| 50000              | 7150               | 5690 | 2670 | 8440 |
| 60000              | 7600               | 6040 | 2830 | 9000 |
| 75000              | 8200               | 6560 | 3100 | 9430 |

Dimensions are not binding

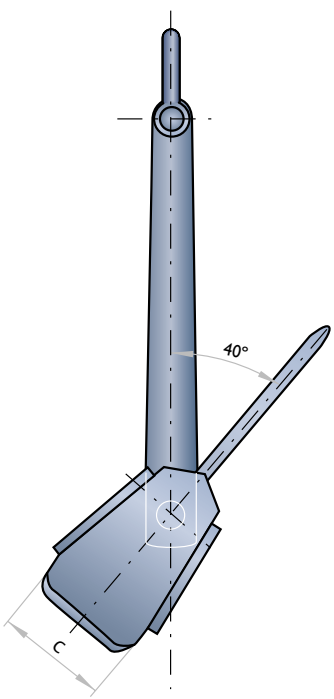
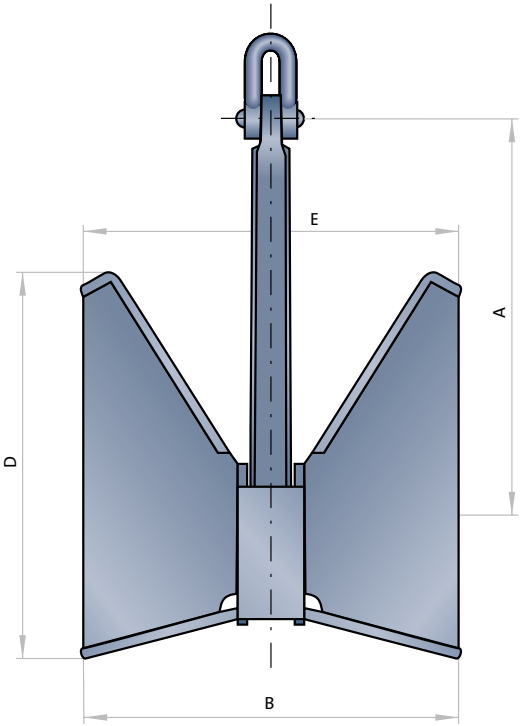
Other weights also available – for more information call us or send an email

Super high holding power

# POOL TW<sup>®</sup>/M<sup>®</sup> anchor



Super High Holding Power |  
**High Holding Power** | Conventional



Other types of Pool<sup>®</sup> anchors  
 available upon request:

- Pool<sup>®</sup> N
- Pool<sup>®</sup> KM

| Weight<br>[in kgs] | Dimensions [in mm] |      |     |      |      |
|--------------------|--------------------|------|-----|------|------|
|                    | A                  | B    | C   | D    | E    |
| 60                 | 585                | 543  | 201 | 555  | 535  |
| 90                 | 675                | 625  | 229 | 642  | 615  |
| 270                | 971                | 906  | 333 | 921  | 892  |
| 495                | 1174               | 1090 | 398 | 1115 | 1072 |
| 765                | 1377               | 1269 | 471 | 1309 | 1250 |
| 970                | 1480               | 1372 | 501 | 1407 | 1350 |
| 1305               | 1634               | 1509 | 556 | 1552 | 1486 |
| 1710               | 1786               | 1647 | 611 | 1698 | 1622 |

Dimensions are not binding

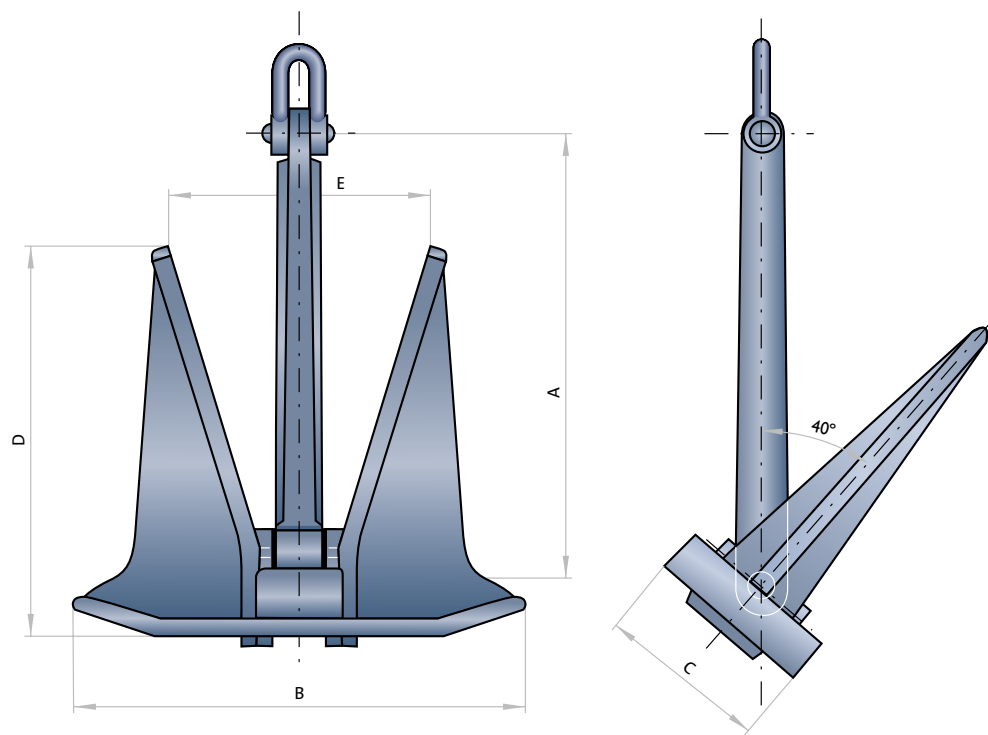
| Weight<br>[in kgs] | Dimensions [in mm] |      |      |      |      |
|--------------------|--------------------|------|------|------|------|
|                    | A                  | B    | C    | D    | E    |
| 2475               | 2004               | 1857 | 683  | 1906 | 1828 |
| 3240               | 2202               | 2040 | 751  | 2090 | 2008 |
| 4210               | 2413               | 2232 | 823  | 2291 | 2198 |
| 5175               | 2569               | 2372 | 878  | 2441 | 2336 |
| 6225               | 2756               | 2549 | 943  | 2619 | 2510 |
| 7875               | 2960               | 2717 | 1003 | 2812 | 2674 |
| 10575              | 3291               | 3032 | 1119 | 3127 | 2986 |
| 23250              | 4305               | 3955 | 1475 | 4080 | 3894 |

Dimensions are not binding

# D'Hone® special anchor



Super High Holding Power |  
**High Holding Power** | Conventional



| Weight<br>[in kgs] | Dimensions [in mm] |      |     |      |      |
|--------------------|--------------------|------|-----|------|------|
|                    | A                  | B    | C   | D    | E    |
| 48                 | 505                | 535  | 200 | 474  | 315  |
| 105                | 635                | 675  | 250 | 600  | 395  |
| 225                | 830                | 890  | 330 | 780  | 515  |
| 495                | 1085               | 1150 | 430 | 1020 | 675  |
| 765                | 1245               | 1320 | 490 | 1165 | 770  |
| 970                | 1345               | 1425 | 530 | 1260 | 830  |
| 1305               | 1490               | 1585 | 590 | 1400 | 925  |
| 1710               | 1630               | 1730 | 645 | 1530 | 1010 |

Dimensions are not binding

| Weight<br>[in kgs] | Dimensions [in mm] |      |      |      |      |
|--------------------|--------------------|------|------|------|------|
|                    | A                  | B    | C    | D    | E    |
| 2475               | 1830               | 1940 | 720  | 1715 | 1130 |
| 3240               | 1940               | 2060 | 770  | 1820 | 1200 |
| 4210               | 2020               | 2100 | 785  | 1880 | 1320 |
| 5175               | 2190               | 2150 | 935  | 1980 | 1455 |
| 6225               | 2500               | 2670 | 995  | 2355 | 1555 |
| 7875               | 2720               | 2890 | 1075 | 2550 | 1680 |
| 10575              | 2990               | 3175 | 1180 | 2800 | 1850 |

Dimensions are not binding

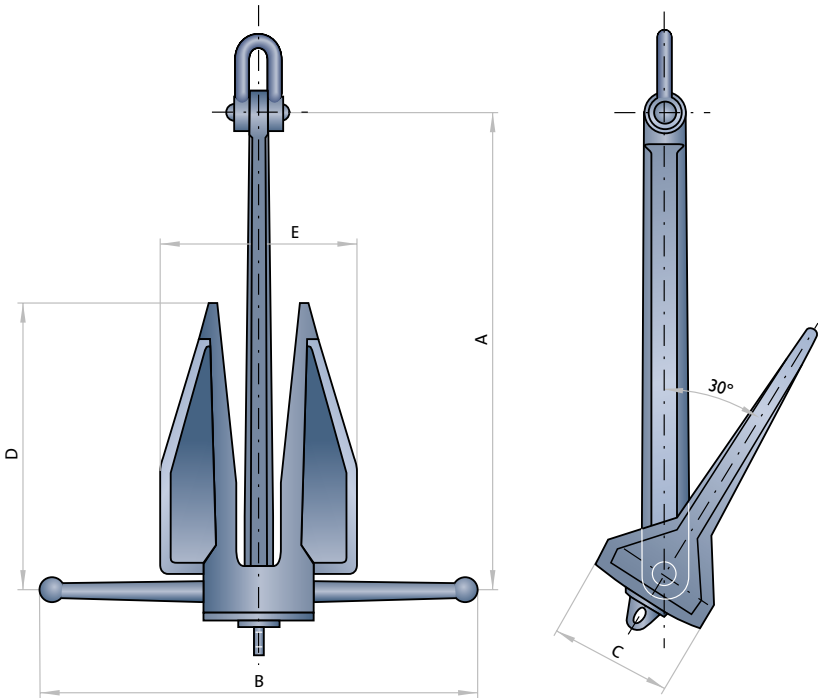
Other weights also available – for more information call us or send an email

High holding power

# Danforth anchor



Super High Holding Power |  
**High Holding Power** | Conventional



| Weight   |          | Dimensions [in mm] |      |     |      |      |
|----------|----------|--------------------|------|-----|------|------|
| [in lbs] | [in kgs] | A                  | B    | C   | D    | E    |
| 300      | 135      | 1350               | 1130 | 275 | 820  | 560  |
| 500      | 225      | 1600               | 1340 | 325 | 975  | 665  |
| 1000     | 455      | 1830               | 1580 | 410 | 1100 | 760  |
| 2000     | 910      | 2100               | 1820 | 525 | 1275 | 900  |
| 2500     | 1135     | 2260               | 2140 | 560 | 1350 | 930  |
| 3000     | 1360     | 2390               | 2260 | 595 | 1440 | 990  |
| 5000     | 2270     | 2780               | 2700 | 710 | 1650 | 1170 |
| 6000     | 2730     | 2960               | 2810 | 750 | 1780 | 1200 |

Dimensions are not binding

| Weight   |          | Dimensions [in mm] |      |      |      |      |
|----------|----------|--------------------|------|------|------|------|
| [in lbs] | [in kgs] | A                  | B    | C    | D    | E    |
| 7000     | 3180     | 3120               | 2960 | 790  | 1880 | 1260 |
| 8000     | 3635     | 3260               | 3090 | 825  | 1960 | 1320 |
| 10000    | 4540     | 3510               | 3330 | 890  | 2100 | 1420 |
| 12000    | 5445     | 3730               | 3540 | 945  | 2240 | 1510 |
| 16000    | 7260     | 4100               | 4000 | 1040 | 2470 | 1660 |
| 18000    | 8165     | 4270               | 4080 | 1080 | 2560 | 1730 |
| 20000    | 9075     | 4370               | 4150 | 1110 | 2620 | 1770 |
| 30000    | 13610    | 5000               | 4750 | 1270 | 3000 | 2025 |

Dimensions are not binding

High holding power

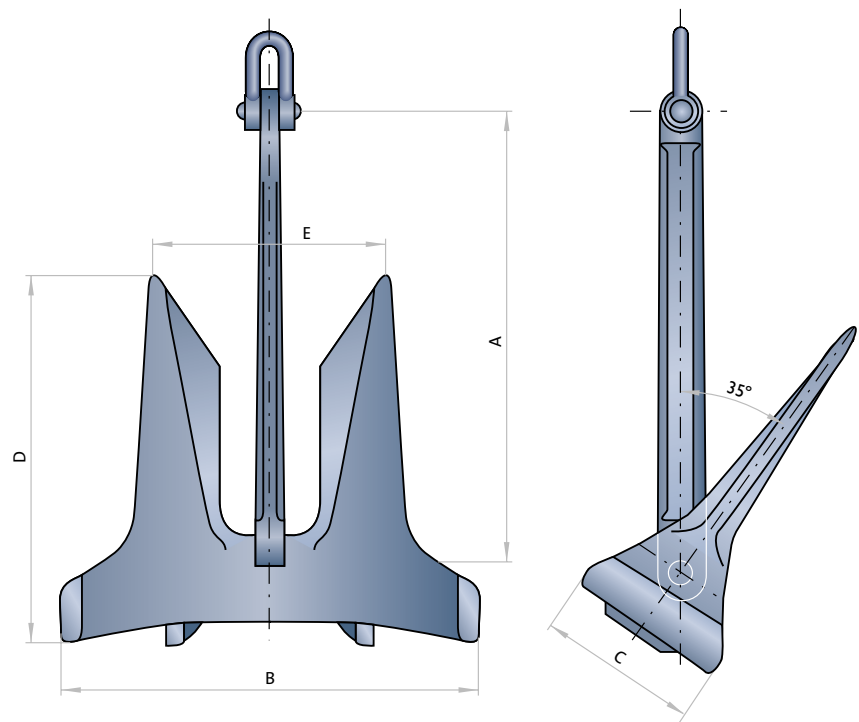
# AC-14 anchor



Super High Holding Power

High Holding Power

Conventional



| Weight<br>[in kgs] | Dimensions [in mm] |      |     |      |      |
|--------------------|--------------------|------|-----|------|------|
|                    | A                  | B    | C   | D    | E    |
| 970 - 1080         | 1810               | 1660 | 540 | 1530 | 885  |
| 1305 - 1575        | 2015               | 1845 | 600 | 1705 | 985  |
| 1980 - 2100        | 2100               | 1920 | 630 | 1820 | 1030 |
| 2295 - 2475        | 2300               | 2107 | 687 | 1945 | 1127 |
| 2655 - 2835        | 2388               | 2185 | 711 | 2016 | 1168 |
| 3040 - 3445        | 2560               | 2345 | 765 | 2165 | 1255 |
| 3670 - 3940        | 2586               | 2366 | 771 | 2185 | 1266 |
| 5175 - 5510        | 2925               | 2615 | 850 | 2350 | 1400 |

Dimensions are not binding

| Weight<br>[in kgs] | Dimensions [in mm] |      |      |      |      |
|--------------------|--------------------|------|------|------|------|
|                    | A                  | B    | C    | D    | E    |
| 5850 - 6225        | 3034               | 2600 | 869  | 2400 | 1460 |
| 6525 - 6975        | 3150               | 2688 | 902  | 2500 | 1516 |
| 8325 - 9675        | 3340               | 3000 | 1006 | 2800 | 1590 |
| 9945 - 10575       | 3500               | 3210 | 1050 | 2975 | 1720 |
| - 12075            | 3660               | 3350 | 1090 | 3095 | 1795 |
| - 15725            | 3950               | 3470 | 1260 | 3265 | 1900 |
| - 16125            | 4120               | 3470 | 1260 | 3265 | 1950 |
| - 17250            | 4120               | 3715 | 1260 | 3430 | 1990 |

Dimensions are not binding

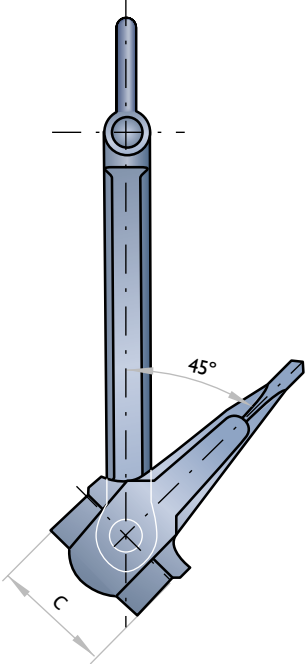
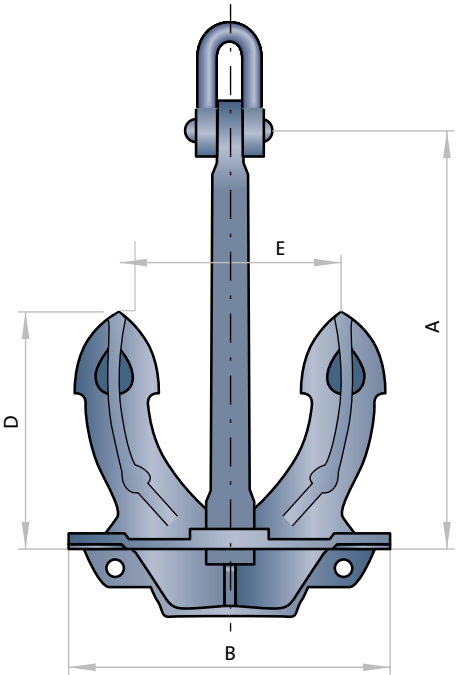
Other weights also available – for more information call us or send an email

High holding power

# Hall anchor



Super High Holding Power |  
High Holding Power | **Conventional**



| Weight<br>[in kgs] | Dimensions [in mm] |      |     |       |
|--------------------|--------------------|------|-----|-------|
|                    | A                  | B    | C   | D = E |
| 180 - 240          | 985                | 694  | 312 | 510   |
| 360 - 480          | 1220               | 860  | 380 | 630   |
| 780 - 900          | 1490               | 1053 | 480 | 772   |
| 1020 - 1140        | 1600               | 1126 | 512 | 825   |
| 1290 - 1440        | 1800               | 1245 | 550 | 895   |
| 1920 - 2100        | 2020               | 1407 | 623 | 1020  |
| 2280 - 2640        | 2170               | 1519 | 672 | 1085  |
| 3300 - 3780        | 2466               | 1740 | 733 | 1265  |

Dimensions are not binding

| Weight<br>[in kgs] | Dimensions [in mm] |      |      |       |
|--------------------|--------------------|------|------|-------|
|                    | A                  | B    | C    | D = E |
| 4050 - 4590        | 2784               | 1889 | 780  | 1384  |
| 4890 - 5610        | 2788               | 1952 | 864  | 1394  |
| 6000 - 6900        | 2930               | 2064 | 932  | 1512  |
| 8300 - 9300        | 3301               | 2311 | 1023 | 1650  |
| 9900 - 11100       | 3502               | 2452 | 1086 | 1751  |
| 13500 - 14700      | 3845               | 2690 | 1190 | 1925  |
| 17800 - 18800      | 4175               | 2920 | 1295 | 2085  |
| 20000 - 23000      | 4465               | 3125 | 1385 | 2230  |

Dimensions are not binding

Conventional

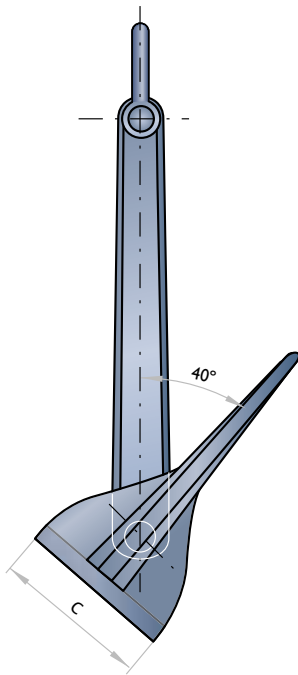
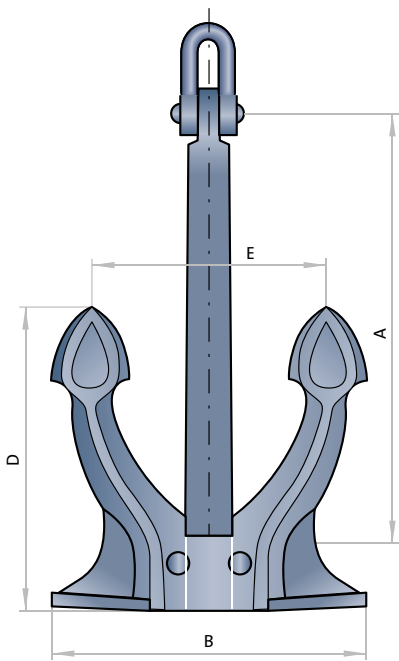
# Spek anchor



Super High Holding Power

High Holding Power

Conventional



| Weight<br>[in kgs] | Dimensions [in mm] |      |     |      |      |
|--------------------|--------------------|------|-----|------|------|
|                    | A                  | B    | C   | D    | E    |
| 480 - 660          | 1260               | 908  | 442 | 846  | 650  |
| 780 - 900          | 1300               | 1030 | 502 | 975  | 750  |
| 1290 - 1440        | 1430               | 1240 | 587 | 1165 | 900  |
| 1590 - 1740        | 1620               | 1299 | 644 | 1229 | 950  |
| 1920 - 2100        | 1755               | 1454 | 720 | 1370 | 1050 |
| 2460 - 2640        | 1866               | 1514 | 744 | 1424 | 1100 |
| 2850 - 3060        | 1940               | 1584 | 788 | 1502 | 1150 |
| 3300 - 3780        | 2160               | 1650 | 801 | 1560 | 1200 |

Dimensions are not binding

| Weight<br>[in kgs] | Dimensions [in mm] |      |      |      |      |
|--------------------|--------------------|------|------|------|------|
|                    | A                  | B    | C    | D    | E    |
| 4050 - 4890        | 2400               | 1927 | 910  | 1813 | 1400 |
| 5250 - 5610        | 2600               | 2000 | 954  | 1864 | 1450 |
| 6000 - 6450        | 2600               | 2060 | 998  | 1946 | 1500 |
| 6900 - 7800        | 2740               | 2138 | 1030 | 2006 | 1550 |
| 8300 - 9900        | 3060               | 2333 | 1118 | 2210 | 1700 |
| 10500 - 11700      | 3186               | 2440 | 1178 | 2301 | 1770 |
| 12300 - 14700      | 3438               | 2632 | 1270 | 2483 | 1910 |
| 15400 - 17800      | 3690               | 2825 | 1360 | 2665 | 2050 |

Dimensions are not binding

Other weights also available – for more information call us or send an email

Conventional

# CHAINCABLES

21 | Studlink chaincable

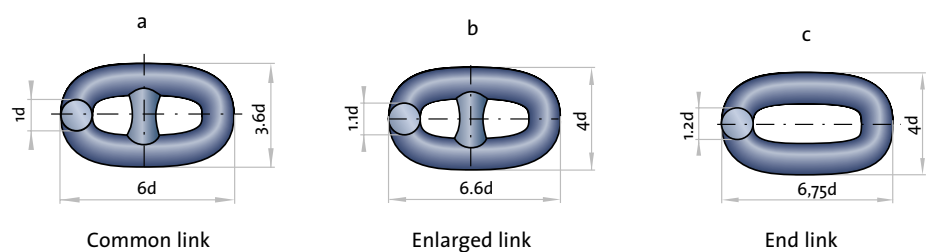
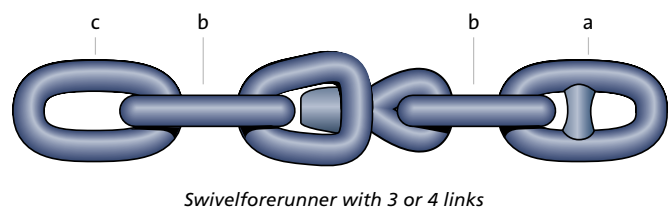
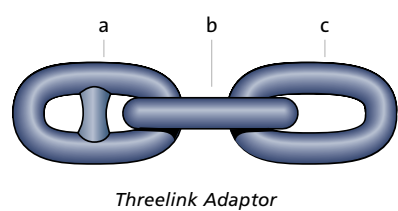
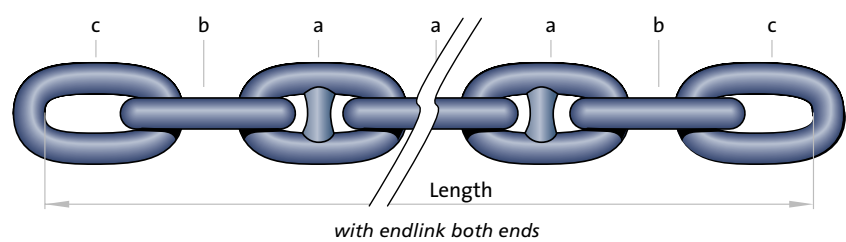
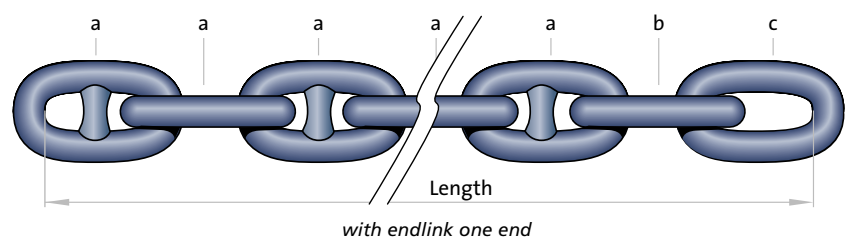
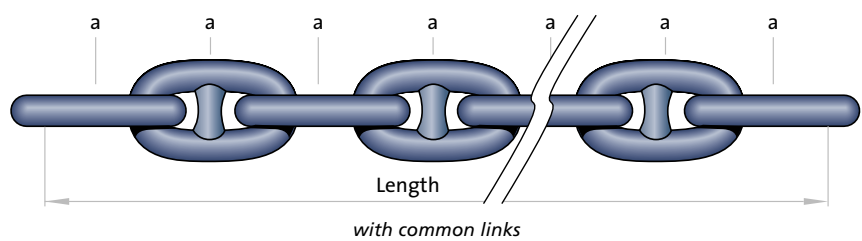
22 | Connecting parts

26 | Shortlink chaincable



# Studlink chaincable

Studlink chaincable |  
Connecting parts | Shortlink chaincable



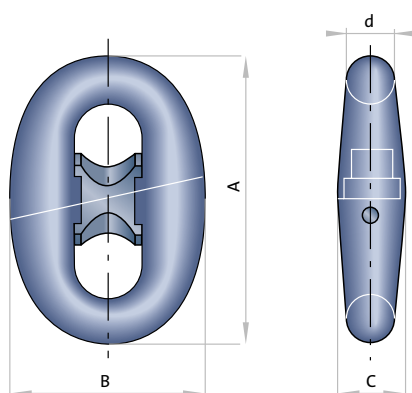
# Connecting parts



Studlink chaincable |  
**Connecting parts** | Shortlink chaincable



# Kenterjoiningshackle

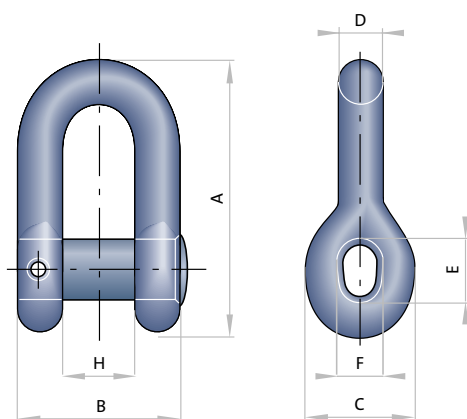


| Chain Diameter<br>[in mm] d | Dimensions [in mm] |       |       | Weight<br>[in kgs] |
|-----------------------------|--------------------|-------|-------|--------------------|
|                             | A                  | B     | C     |                    |
| 19                          | 114                | 79.8  | 28.9  | 1.1                |
| 26                          | 156                | 109.2 | 39.5  | 2.6                |
| 34                          | 204                | 142.8 | 51.7  | 6                  |
| 42                          | 252                | 176.4 | 63.8  | 11                 |
| 48                          | 288                | 201.6 | 73.0  | 16                 |
| 50                          | 300                | 210.0 | 76.0  | 21                 |
| 58                          | 348                | 243.6 | 88.2  | 31                 |
| 66                          | 396                | 277.2 | 100.3 | 42                 |
| 73                          | 438                | 306.5 | 111.0 | 64                 |
| 76                          | 456                | 319.0 | 115.5 | 68                 |
| 87                          | 522                | 365.4 | 132.2 | 103                |
| 97                          | 582                | 407.5 | 147.5 | 140                |
| 107                         | 642                | 449.5 | 162.6 | 192                |
| 111                         | 666                | 466.0 | 168.7 | 211                |
| 122                         | 732                | 512.4 | 185.4 | 285                |
| 132                         | 792                | 554.4 | 200.6 | 345                |

Dimensions are not binding

Other weights also available – for more information call us or send an email

# Anchor 'D' Endshackle



$$\begin{aligned} C &= 3.0 d & E &= 1.9 d \\ H &= 2.2 d & F &= 1.3 d \end{aligned}$$

| Chain Diameter<br>[in mm] d | Dimensions [in mm] |     |       | Weight<br>[in kgs] |
|-----------------------------|--------------------|-----|-------|--------------------|
|                             | A                  | B   | C     |                    |
| 19                          | 155.8              | 95  | 26.6  | 2.5                |
| 26                          | 213.2              | 130 | 36.4  | 7                  |
| 34                          | 278.8              | 170 | 47.6  | 15                 |
| 42                          | 344.4              | 210 | 58.8  | 26                 |
| 48                          | 393.6              | 240 | 67.2  | 39                 |
| 50                          | 410.0              | 250 | 70.0  | 45                 |
| 58                          | 475.6              | 290 | 81.2  | 72                 |
| 66                          | 541.2              | 330 | 92.4  | 106                |
| 73                          | 598.5              | 365 | 102.2 | 141                |
| 76                          | 623.0              | 380 | 106.4 | 160                |
| 87                          | 713.4              | 435 | 121.8 | 240                |
| 97                          | 795.5              | 485 | 135.8 | 330                |
| 107                         | 877.4              | 535 | 149.8 | 450                |
| 111                         | 910.0              | 555 | 155.4 | 495                |
| 122                         | 1000.4             | 610 | 170.8 | 675                |
| 132                         | 1082.4             | 660 | 184.8 | 860                |

Dimensions are not binding

Other weights also available – for more information call us or send an email

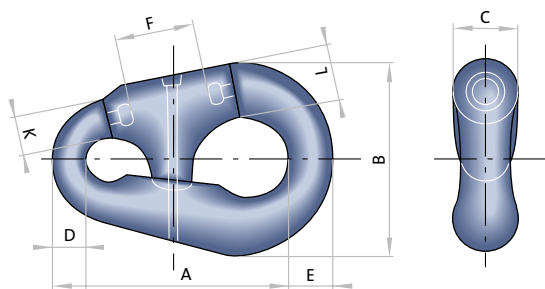
# Connecting parts



Studlink chaincable |  
**Connecting parts** | Shortlink chaincable



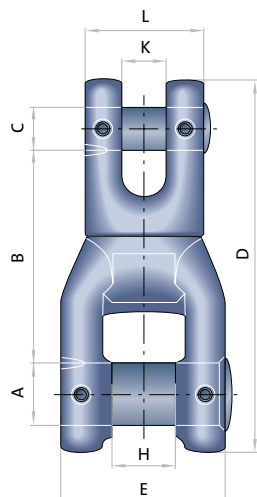
# Pearshackle 'Baldt' type



| Type<br>[No.] | Chain Diameter<br>[in mm] d | Dimensions [in mm] |     |     |    |     |     |         |     | Weight<br>[in kgs] |
|---------------|-----------------------------|--------------------|-----|-----|----|-----|-----|---------|-----|--------------------|
|               |                             | A                  | B   | C   | D  | E   | F   | K       | L   |                    |
| 3             | 26 - 30                     | 238                | 167 | 46  | 30 | 38  | 65  | 32      | 46  | 9                  |
| 4             | 32 - 40                     | 298                | 206 | 59  | 40 | 48  | 79  | 39x44   | 57  | 3                  |
| 5             | 42 - 50                     | 381                | 251 | 76  | 51 | 64  | 100 | 52x64   | 76  | 28                 |
| 6             | 52 - 60                     | 454                | 313 | 92  | 60 | 76  | 121 | 62x73   | 89  | 49                 |
| 7             | 62 - 76                     | 559                | 376 | 117 | 76 | 95  | 143 | 79      | 111 | 90                 |
| 8             | 78 - 92                     | 651                | 406 | 140 | 92 | 124 | 152 | 111x122 | 130 | 156                |

Dimensions are not binding

# GJW Superswivel



$$B = 7.7 d$$

$$D = 12.7 d$$

$$L = 4.0 d$$

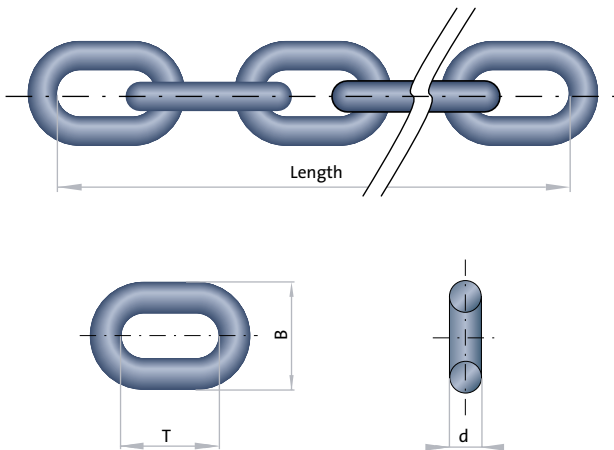
| Chain Diameter<br>[in mm] d | Dimensions [in mm] |       |       |       |       | Weight<br>[in kgs] |
|-----------------------------|--------------------|-------|-------|-------|-------|--------------------|
|                             | A                  | C     | E     | H     | K     |                    |
| 16 - 22                     | 37.4               | 28.6  | 123.2 | 48.4  | 30.8  | 9                  |
| 24 - 30                     | 51.0               | 39.0  | 168.0 | 66.0  | 42.0  | 20                 |
| 32 - 36                     | 61.2               | 46.8  | 201.6 | 79.2  | 50.4  | 38                 |
| 38 - 42                     | 71.4               | 54.6  | 235.2 | 92.4  | 58.8  | 60                 |
| 44 - 48                     | 81.6               | 62.4  | 268.8 | 105.6 | 67.2  | 90                 |
| 50 - 54                     | 91.8               | 70.2  | 302.4 | 118.8 | 75.6  | 135                |
| 56 - 60                     | 102.0              | 78.0  | 336.0 | 132.0 | 84.0  | 185                |
| 62 - 66                     | 112.2              | 85.8  | 369.6 | 145.2 | 92.4  | 250                |
| 68 - 73                     | 124.1              | 94.9  | 408.8 | 160.6 | 102.2 | 325                |
| 76 - 81                     | 137.7              | 105.3 | 453.6 | 178.2 | 113.4 | 550                |
| 84 - 92                     | 156.4              | 119.6 | 515.2 | 202.4 | 128.8 | 690                |
| 95 - 97                     | 164.9              | 126.1 | 543.2 | 213.4 | 135.8 | 900                |
| 100 - 102                   | 173.4              | 132.6 | 571.2 | 224.4 | 142.8 | 1200               |
| 111 - 114                   | 193.8              | 148.2 | 638.4 | 250.8 | 159.6 | 1400               |

Dimensions are not binding

# Shortlink chaincable



Studlink chaincable |  
Connecting parts | **Shortlink chaincable**



Other types of chaincables  
available upon request:

- Hatch cover
- Longlink

| Diameter<br>[in mm] d | Dimensions [in mm] |     | Weight<br>[in kgs] | Grade K2               |                           | ISO Grade 40 L.R.S.   |                          |
|-----------------------|--------------------|-----|--------------------|------------------------|---------------------------|-----------------------|--------------------------|
|                       | T                  | B   |                    | Proof Load<br>[in kgs] | Breaking Load<br>[in kgs] | Proof Load<br>[in kN] | Breaking Load<br>[in kN] |
| 8                     | 24                 | 26  | 1.35               | 2020                   | 4040                      | 20.1                  | 40.2                     |
| 9                     | 27                 | 30  | 1.80               | 2550                   | 5100                      | 25.4                  | 50.9                     |
| 10                    | 28                 | 34  | 2.25               | 3150                   | 6300                      | 31.4                  | 62.8                     |
| 11                    | 31                 | 36  | 2.7                | 3150                   | 6300                      | 39.4                  | 79.0                     |
| 13                    | 36                 | 44  | 3.8                | 4500                   | 9000                      | 49.2                  | 98.4                     |
| 14                    | 41                 | 47  | 4.4                | 5200                   | 10400                     | 61.8                  | 124.0                    |
| 16                    | 45                 | 54  | 5.8                | 6750                   | 13500                     | 80.4                  | 161.0                    |
| 18                    | 50                 | 60  | 7.3                | 8600                   | 17200                     | 102.0                 | 204.0                    |
| 20                    | 56                 | 67  | 9.0                | 10600                  | 21200                     | 126.0                 | 252.0                    |
| 23                    | 64                 | 77  | 12.0               | 14000                  | 28000                     | 158.0                 | 316.0                    |
| 26                    | 73                 | 87  | 15.0               | 17900                  | 35800                     | 197.0                 | 394.0                    |
| 28                    | 78                 | 94  | 17.5               | 20800                  | 41500                     | 246.0                 | 492.0                    |
| 30                    | 84                 | 101 | 20.0               | 23900                  | 47700                     | 284.0                 | 568.0                    |
| 33                    | 92                 | 112 | 24.5               | 28900                  | 57700                     | 322.0                 | 644.0                    |
| 36                    | 101                | 122 | 29.0               | 34300                  | 68600                     | 407.0                 | 814.0                    |
| 39                    | 109                | 132 | 34.0               | 40300                  | 80500                     | 503.0                 | 1010.0                   |

Dimensions are not binding

# SPECIAL EQUIPMENT

30 | Equipment table

32 | Weight table





## Special equipment | Weight table

In combination with  
anchor and chains we  
can also supply:

- Panama chocks (deck and bulwark type)
- Bollards (double and single leg)
- Chainstoppers and devilclaws
- Anchor pockets
- End connections for chainlocker
- Cast steel parts
- Fairleads
- Smit Brackets
- Mooring ropes
- Emergency Towing system components



# Equipment table



| Equipment Number |               | Equipment Letter |     |     |     | Stockless Bower Anchors |                   |                 | Studlink Chaincables |                        |                            |
|------------------|---------------|------------------|-----|-----|-----|-------------------------|-------------------|-----------------|----------------------|------------------------|----------------------------|
| Exceeding        | Not Exceeding | LRS              | ABS | DNV | GL  | Number of Anchors       | Weight per anchor |                 | Total Length         | Diameter               |                            |
|                  |               |                  |     |     |     |                         | Conv.<br>[in kgs] | HHP<br>[in kgs] | [in meters]          | Spec. Steel<br>[in mm] | Ex. Spec. steel<br>[in mm] |
| 50               | 70            | A                |     | a   | 102 | 2                       | 180               | 135             | 220                  | 12.5                   | -                          |
| 70               | 90            | B                |     | b   | 103 | 2                       | 240               | 180             | 220                  | 14                     | -                          |
| 90               | 110           | C                |     | c   | 104 | 2                       | 300               | 225             | 247.5                | 16                     | -                          |
| 110              | 130           | D                |     | d   | 105 | 2                       | 360               | 270             | 247.5                | 17.5                   | -                          |
| 130              | 150           | E                |     | e   | 106 | 2                       | 420               | 315             | 275                  | 17.5                   | -                          |
| 150              | 175           | F                | U6  | f   | 107 | 2                       | 480               | 360             | 275                  | 19                     | -                          |
| 175              | 205           | G                | U7  | g   | 108 | 2                       | 570               | 430             | 302.5                | 20.5                   | -                          |
| 205              | 240           | H                | U8  | h   | 109 | 2                       | 660               | 495             | 302.5                | 22                     | 20.5                       |
| 240              | 280           | I                | U9  | i   | 110 | 2                       | 780               | 585             | 330                  | 24                     | 22                         |
| 280              | 320           | J                | U10 | j   | 111 | 2                       | 900               | 675             | 357.5                | 26                     | 24                         |
| 320              | 360           | K                | U11 | k   | 112 | 2                       | 1020              | 765             | 357.5                | 28                     | 24                         |
| 360              | 400           | L                | U12 | l   | 113 | 2                       | 1140              | 855             | 385                  | 30                     | 26                         |
| 400              | 450           | M                | U13 | m   | 114 | 2                       | 1290              | 970             | 385                  | 32                     | 28                         |
| 450              | 500           | N                | U14 | n   | 115 | 2                       | 1440              | 1080            | 412.5                | 34                     | 30                         |
| 500              | 550           | O                | U15 | o   | 116 | 2                       | 1590              | 1195            | 412.5                | 34                     | 30                         |
| 550              | 600           | P                | U16 | p   | 117 | 2                       | 1740              | 1305            | 440                  | 36                     | 32                         |
| 600              | 660           | Q                | U17 | q   | 118 | 2                       | 1920              | 1440            | 440                  | 38                     | 34                         |
| 660              | 720           | R                | U18 | r   | 119 | 2                       | 2100              | 1575            | 440                  | 40                     | 36                         |
| 720              | 780           | S                | U19 | s   | 120 | 2                       | 2280              | 1710            | 467.5                | 42                     | 36                         |
| 780              | 840           | T                | U20 | t   | 121 | 2                       | 2460              | 1845            | 467.5                | 44                     | 38                         |
| 840              | 910           | U                | U21 | u   | 122 | 2                       | 2640              | 1980            | 467.5                | 46                     | 40                         |
| 910              | 980           | V                | U22 | v   | 123 | 2                       | 2850              | 2140            | 495                  | 48                     | 42                         |
| 980              | 1060          | W                | U23 | w   | 124 | 2                       | 3060              | 2295            | 495                  | 50                     | 44                         |
| 1060             | 1140          | X                | U24 | x   | 125 | 2                       | 3300              | 2475            | 495                  | 50                     | 46                         |
| 1140             | 1220          | Y                | U25 | y   | 126 | 2                       | 3540              | 2655            | 522.5                | 52                     | 46                         |
| 1220             | 1300          | Z                | U26 | z   | 127 | 2                       | 3780              | 2835            | 522.5                | 54                     | 48                         |
| 1300             | 1390          | A†               | U27 | A   | 128 | 2                       | 4050              | 3040            | 522.5                | 56                     | 50                         |
| 1390             | 1480          | B†               | U28 | B   | 129 | 2                       | 4320              | 3240            | 550                  | 58                     | 50                         |
| 1480             | 1570          | C†               | U29 | C   | 130 | 2                       | 4590              | 3445            | 550                  | 60                     | 52                         |
| 1570             | 1670          | D†               | U30 | D   | 131 | 2                       | 4890              | 3670            | 550                  | 62                     | 54                         |
| 1670             | 1790          | E†               | U31 | E   | 132 | 2                       | 5250              | 3940            | 577.5                | 64                     | 56                         |

Dimensions are not binding

## Special equipment |

### Weight table

| Equipment Number |               | Equipment Letter |     |     |     | Stockless Bower Anchors |                   |                 | Studlink Chaincables        |                        |                            |
|------------------|---------------|------------------|-----|-----|-----|-------------------------|-------------------|-----------------|-----------------------------|------------------------|----------------------------|
| Exceeding        | Not Exceeding | LRS              | ABS | DNV | GL  | Number of Anchors       | Weight per anchor |                 | Total Length<br>[in meters] | Diameter               |                            |
|                  |               |                  |     |     |     |                         | Conv.<br>[in kgs] | HHP<br>[in kgs] |                             | Spec. Steel<br>[in mm] | Ex. Spec. steel<br>[in mm] |
| 1790             | 1930          | F†               | U32 | F   | 133 | 2                       | 5610              | 4210            | 577.5                       | 66                     | 58                         |
| 1930             | 2080          | G†               | U33 | G   | 134 | 2                       | 6000              | 4500            | 577.5                       | 68                     | 60                         |
| 2080             | 2230          | H†               | U34 | H   | 135 | 2                       | 6450              | 4840            | 605                         | 70                     | 62                         |
| 2230             | 2380          | I†               | U35 | I   | 136 | 2                       | 6900              | 5175            | 605                         | 73                     | 64                         |
| 2380             | 2530          | J†               | U36 | J   | 137 | 2                       | 7350              | 5520            | 605                         | 76                     | 66                         |
| 2530             | 2700          | K†               | U37 | K   | 138 | 2                       | 7800              | 5850            | 632.5                       | 78                     | 68                         |
| 2700             | 2870          | L†               | U38 | L   | 139 | 2                       | 8300              | 6225            | 632.5                       | 81                     | 70                         |
| 2870             | 3040          | M†               | U39 | M   | 140 | 2                       | 8700              | 6525            | 632.5                       | 84                     | 73                         |
| 3040             | 3210          | N†               | U40 | N   | 141 | 2                       | 9300              | 6975            | 660                         | 84                     | 76                         |
| 3210             | 3400          | O†               | U41 | O   | 142 | 2                       | 9900              | 7425            | 660                         | 87                     | 78                         |
| 3400             | 3600          | P†               | U42 | P   | 143 | 2                       | 10500             | 7875            | 660                         | 90                     | 78                         |
| 3600             | 3800          | Q†               | U43 | Q   | 144 | 2                       | 11100             | 8325            | 687.5                       | 92                     | 81                         |
| 3800             | 4000          | R†               | U44 | R   | 145 | 2                       | 11700             | 8775            | 687.5                       | 95                     | 84                         |
| 4000             | 4200          | S†               | U45 | S   | 146 | 2                       | 12300             | 9225            | 687.5                       | 97                     | 87                         |
| 4200             | 4400          | T†               | U46 | T   | 147 | 2                       | 12900             | 9675            | 715                         | 100                    | 87                         |
| 4400             | 4600          | U†               | U47 | U   | 148 | 2                       | 13500             | 10125           | 715                         | 102                    | 90                         |
| 4600             | 4800          | V†               | U48 | V   | 149 | 2                       | 14100             | 10575           | 715                         | 105                    | 92                         |
| 4800             | 5000          | W†               | U49 | W   | 150 | 2                       | 14700             | 11025           | 742.5                       | 107                    | 95                         |
| 5000             | 5200          | X†               | U50 | X   | 151 | 2                       | 15400             | 11550           | 742.5                       | 111                    | 97                         |
| 5200             | 5500          | Y†               | U51 | Y   | 152 | 2                       | 16100             | 12075           | 742.5                       | 111                    | 97                         |
| 5500             | 5800          | Z†               | U52 | Z   | 153 | 2                       | 16900             | 12675           | 742.5                       | 114                    | 100                        |
| 5800             | 6100          | A*               | U53 | A*  | 154 | 2                       | 17800             | 13350           | 742.5                       | 117                    | 102                        |
| 6100             | 6500          | B*               | U54 | B*  | 155 | 2                       | 18800             | 14100           | 742.5                       | 120                    | 107                        |
| 6500             | 6900          | C*               | U55 | C*  | 156 | 2                       | 20000             | 15000           | 770                         | 124                    | 111                        |
| 6900             | 7400          | D*               | U56 | D*  | 157 | 2                       | 21500             | 16125           | 770                         | 127                    | 114                        |
| 7400             | 7900          | E*               | U57 | E*  | 158 | 2                       | 23000             | 17250           | 770                         | 132                    | 117                        |
| 7900             | 8400          | F*               | U58 | F*  | 159 | 2                       | 24500             | 18375           | 770                         | 137                    | 122                        |
| 8400             | 8900          | G*               | U59 | G*  | 160 | 2                       | 26000             | 19500           | 770                         | 142                    | 127                        |
| 8900             | 9400          | H*               | U60 | H*  | 161 | 2                       | 27500             | 20625           | 770                         | 147                    | 132                        |
| 9400             | 10000         | I*               | U61 | I*  | 162 | 2                       | 29000             | 21750           | 770                         | 152                    | 132                        |

Dimensions are not binding

# Weight table studlink chaincable

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Special equipment |  
**Weight table**



| Nominal Diameter<br>[in mm] d | Length<br>[27.5 mtr] | Kenter<br>Joining Shackle | Anchor 'D'<br>Endshackle | Swivel<br>Forerunner | GJW<br>Superswivel | Threelink<br>Adaptor |
|-------------------------------|----------------------|---------------------------|--------------------------|----------------------|--------------------|----------------------|
| 14                            | 140                  | 0.5                       | 1.7                      | 2.8                  | 7                  | 1.3                  |
| 16                            | 155                  | 0.7                       | 2.3                      | 3.3                  | 9                  | 1.5                  |
| 17.5                          | 185                  | 0.8                       | 2.4                      | 3.3                  | 9                  | 2.0                  |
| 19                            | 210                  | 1.1                       | 2.5                      | 7                    | 9                  | 2.4                  |
| 20.5                          | 260                  | 1.3                       | 3.5                      | 8                    | 9                  | 3                    |
| 22                            | 285                  | 1.6                       | 4                        | 10                   | 9                  | 4                    |
| 24                            | 360                  | 2.1                       | 5                        | 14                   | 20                 | 5                    |
| 26                            | 430                  | 2.6                       | 7                        | 16                   | 20                 | 6                    |
| 28                            | 490                  | 3.3                       | 9                        | 23                   | 20                 | 8                    |
| 30                            | 560                  | 4.2                       | 10                       | 29                   | 20                 | 10                   |
| 32                            | 640                  | 5.1                       | 12                       | 31                   | 38                 | 12                   |
| 34                            | 710                  | 6.0                       | 15                       | 37                   | 38                 | 14                   |
| 36                            | 795                  | 7.6                       | 18                       | 45                   | 38                 | 17                   |
| 38                            | 875                  | 7.7                       | 20                       | 50                   | 60                 | 19                   |
| 40                            | 985                  | 10                        | 23                       | 58                   | 60                 | 22                   |
| 42                            | 1075                 | 11                        | 26                       | 65                   | 60                 | 25                   |
| 44                            | 1160                 | 14                        | 32                       | 80                   | 91                 | 29                   |
| 46                            | 1285                 | 15                        | 36                       | 90                   | 91                 | 34                   |
| 48                            | 1395                 | 16                        | 39                       | 100                  | 91                 | 39                   |
| 50                            | 1515                 | 21                        | 45                       | 115                  | 135                | 44                   |
| 52                            | 1615                 | 22                        | 52                       | 130                  | 135                | 49                   |
| 54                            | 1730                 | 26                        | 57                       | 145                  | 135                | 55                   |
| 56                            | 1850                 | 27                        | 62                       | 160                  | 185                | 61                   |
| 58                            | 2055                 | 31                        | 72                       | 180                  | 185                | 68                   |
| 60                            | 2180                 | 32                        | 80                       | 200                  | 185                | 75                   |
| 62                            | 2310                 | 37                        | 86                       | 215                  | 250                | 81                   |
| 64                            | 2450                 | 40                        | 93                       | 235                  | 250                | 89                   |
| 66                            | 2580                 | 42                        | 106                      | 265                  | 250                | 101                  |
| 68                            | 2750                 | 48                        | 114                      | 285                  | 325                | 109                  |
| 70                            | 2925                 | 55                        | 130                      | 325                  | 325                | 119                  |
| 73                            | 3205                 | 64                        | 141                      | 355                  | 325                | 133                  |
| 76                            | 3445                 | 68                        | 160                      | 400                  | 550                | 153                  |
| 78                            | 3635                 | 72                        | 170                      | 425                  | 550                | 161                  |
| 81                            | 3870                 | 82                        | 192                      | 480                  | 550                | 184                  |
| 84                            | 4205                 | 92                        | 214                      | 535                  | 690                | 202                  |
| 87                            | 4450                 | 103                       | 240                      | 600                  | 690                | 230                  |
| 90                            | 4790                 | 114                       | 265                      | 665                  | 690                | 251                  |
| 92                            | 5060                 | 119                       | 281                      | 705                  | 690                | 271                  |
| 95                            | 5400                 | 131                       | 310                      | 775                  | 900                | 296                  |
| 97                            | 5565                 | 140                       | 330                      | 825                  | 900                | 315                  |
| 100                           | 5935                 | 154                       | 361                      | 905                  | 1200               | 347                  |
| 102                           | 6280                 | 167                       | 382                      | 955                  | 1200               | 359                  |
| 107                           | 6790                 | 192                       | 450                      | 1125                 | 1212               | 424                  |
| 111                           | 7385                 | 211                       | 495                      | 1240                 | 1400               | 471                  |
| 114                           | 7695                 | 231                       | 544                      | 1360                 | 1400               | 516                  |
| 117                           | 8100                 | 250                       | 586                      | 1465                 | -                  | 563                  |
| 120                           | 8685                 | 270                       | 632                      | 1580                 | -                  | 609                  |
| 122                           | 8850                 | 285                       | 675                      | 1685                 | -                  | 642                  |
| 124                           | 9270                 | 294                       | 690                      | 1765                 | -                  | 670                  |
| 127                           | 9550                 | 316                       | 740                      | 1850                 | -                  | 715                  |
| 132                           | 10685                | 345                       | 860                      | 2200                 | -                  | 814                  |

Weight in kgs



# FLIPPER DELTA®

35 | A special anchor



## A special anchor for special applications

Our **Flipper Delta**® superior high holding power anchor with its easy handling and rapid penetration in different soil conditions is known world wide. It is used in the offshore and dredging related business.

Manufactured from high tensile steel and approved by all classifications, we are able to offer you the **Flipper Delta**® anchor(s) you need for your project.

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