

# the quick release link



## characteristics

- Minimal breaking load of 25.000-260.000 kg
- Safe working loads of 3.000-42.500 kg (at grabbing operation)
- C-section of high-grade forged steel, refined to a tensile strength of 1000-1100 N/mm<sup>2</sup>
- Locking piece of high-grade forged steel, refined to a tensile strength of 800-1000N/mm<sup>2</sup>
- Locking piece is equipped with a safety lock
- Contact surfaces hardened
- A safe closing-mechanism; no risk of accidental unscrewing during operation
- Opens and closes within seconds
- Grab change in approx. 10 minutes by one person
- Can also be used as a split link between chains
- The perfect range of sizes ensures interchangeability of C-sections and locking pieces
- Every Quick Release Link is delivered with its own certificate

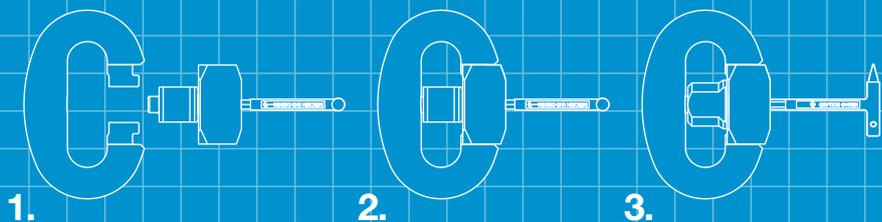
## coupling and uncoupling within a few seconds

### Coupling:

Step 1: place the locking piece in the C-section

Step 2: turn the key 90° to the right...

Step 3: until you hear a click

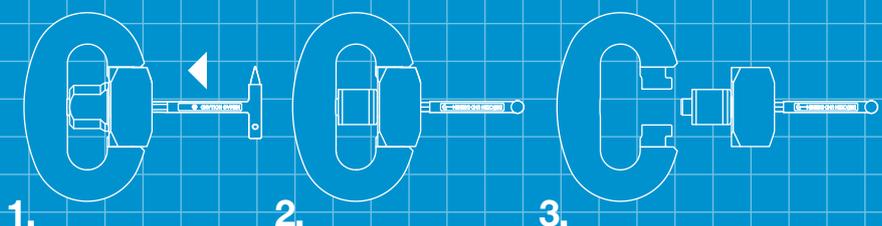


### Uncoupling:

Step 1: apply the key, press and...

Step 2: turn 90°

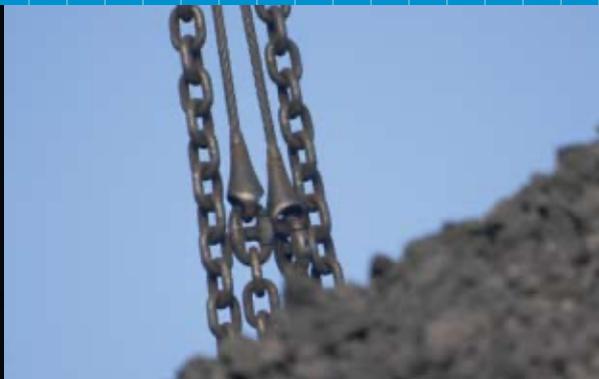
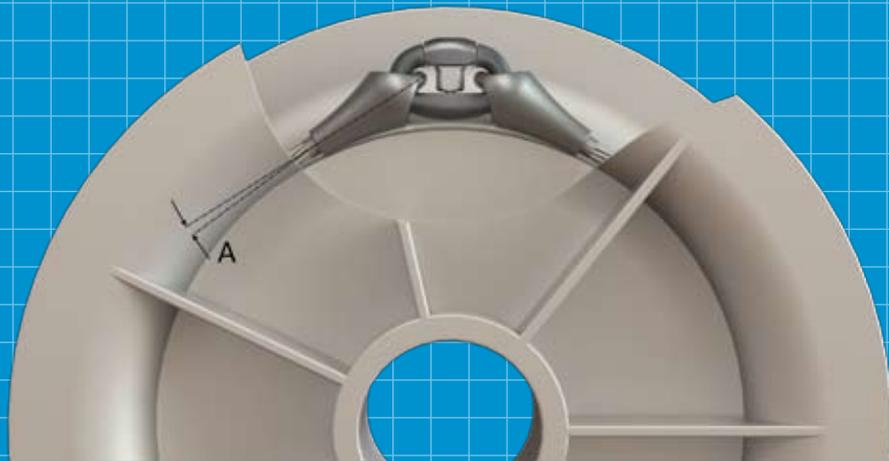
Step 3: remove the locking piece





## Ⓐ the quick release link

The Nemag Quick Release Link is developed to enable quick and straightforward coupling and uncoupling of grabs on cranes. The Nemag Quick Release Link is also being used for many years with great success in other applications where loads frequently have to be coupled or uncoupled using steel wire ropes and/or chains. The Nemag Quick Release Link is made up of a C-section and a locking piece. The C-section and the separate locking piece are made of special steel. The contact surfaces of the C-section have been hardened to achieve a long life span. The sealed locking piece is well protected against damage and dirt.



### Advantages of the Nemag Quick Release Link

- The Nemag Quick Release Link is fitted to Nemag grabs as standard, and is in addition also suitable for grabs from other manufacturers.
- The Nemag Quick Release Link has been balanced and perfected to become the most reliable, quickest and safest coupling method for ropes and chains.
- The Nemag Quick Release Link contributes to the efficiency of bulk handling, because the grabs can be changed in no time using the Nemag Quick Release Link and Rope Pear Socket. This guarantees optimal productivity of the crane. (4-rope grabs for a 40 ton crane can, for example, be changed in 10 minutes by one person)
- The contact surfaces of the C-section have been hardened, which considerably lengthens the life span.
- The construction of the locking piece

ensures reliable functioning; even under severe circumstances.

- The locking pieces are interchangeable.
- The ingenious locking piece guarantees maximum safety.
- The Nemag Quick Release Link stands out because of its great user-friendliness and extremely quick functioning.
- The quality and safe functioning of the Nemag Quick Release Link is checked continuously through internal procedures.
- If desired it can be supplied with a 3.2 mark (for example L.R.S. or A.B.S.)

### The key

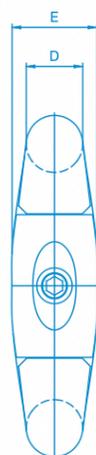
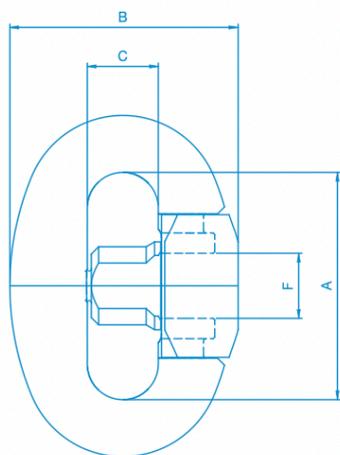
Nemag also supplies a key especially designed for the Quick Release Link. This key has a hexagonal head that fits into the keyhole of the locking piece. The horizontal handle provides sufficient grip to be able to open or close any locking piece with one short movement. The

sharp end of the handle can be used to remove dirt on the outside (of the keyhole).

### High capacities / special applications

Nemag is able to provide special Quick Release Links for out-of-the ordinary applications like off-shore applications. As part of that we supply special Quick Release Links with a breaking load up to 9000kN, including all required safety certificates.

# 1. Technical specifications of Nemag Quick Release Links



## Possible combinations

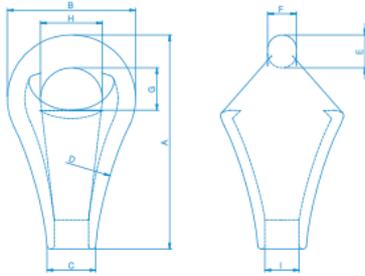
| Pear no. | Link no. |
|----------|----------|
| 1        |          |
| 2        |          |
| 3        | 4        |
| 4        | 4-5      |
| 5        | 4-5-6    |
| 6        | 5-6-7    |
| 7        | 6-7-8-9  |
| 8        | 7-8-9    |
| 9        | 8-9-10   |
| 10       | 9-10-11  |
| 11       | 10-11-12 |
| 12       | 11-12-13 |
| 13       | 12-13-14 |
| 14       | 13-14-15 |
| 15       | 14-15    |
| 17       | 17       |

## Possible combinations

| Pear no. | Link no. |
|----------|----------|
| 924      | 8-9-10   |
| 1026     | 9-10-11  |
| 1130     | 10-11-12 |
| 1232     | 11-12    |
| 1336     | 12-13-14 |
| 1440     | 13-14-15 |
| 3221     | 15       |
| 1548     | 14-15    |
| 1648     | 15-17    |

| Link no. | Working load*<br>kg | Breaking load<br>kg | Size in mm |     |      |    |      |    | Weight<br>kg |
|----------|---------------------|---------------------|------------|-----|------|----|------|----|--------------|
|          |                     |                     | A          | B   | C    | D  | E    | F  |              |
| 4        | 3000                | 25000               | 76         | 76  | 24,5 | 19 | 30   | 21 | 0,9          |
| 5        | 4500                | 33000               | 84         | 84  | 27   | 21 | 32,5 | 23 | 1,2          |
| 6        | 5000                | 37500               | 92         | 92  | 29,5 | 23 | 35   | 25 | 1,5          |
| 7        | 7000                | 49000               | 100        | 100 | 32   | 25 | 38   | 28 | 2,0          |
| 8        | 8000                | 54000               | 108        | 108 | 34,5 | 27 | 40,5 | 31 | 2,5          |
| 9        | 9500                | 60000               | 116        | 116 | 37   | 29 | 43,5 | 34 | 3,1          |
| 10       | 12000               | 75000               | 128        | 128 | 40,5 | 32 | 48   | 37 | 4,4          |
| 11       | 15000               | 95000               | 140        | 140 | 44   | 35 | 53   | 40 | 5,7          |
| 12       | 17000               | 110000              | 152        | 152 | 47,5 | 38 | 57   | 43 | 7,2          |
| 13       | 21000               | 135000              | 164        | 164 | 51   | 41 | 61,5 | 46 | 8,7          |
| 14       | 26000               | 160000              | 176        | 173 | 54   | 44 | 66   | 50 | 11           |
| 15       | 30000               | 175000              | 188        | 188 | 58   | 47 | 70,5 | 52 | 13,5         |
| 17       | 42500               | 260000              | 222        | 222 | 68   | 56 | 84   | 62 | 23           |

## 2. Technical specifications of Nemag Rope Pear Sockets

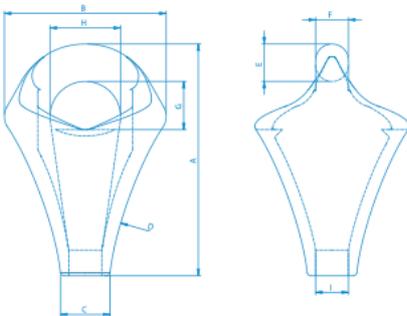


## 4. Possible combinations

| Pear no. | Link no. |
|----------|----------|
| 1        |          |
| 2        |          |
| 3        | 4        |
| 4        | 4-5      |
| 5        | 4-5-6    |
| 6        | 5-6-7    |
| 7        | 6-7-8-9  |
| 8        | 7-8-9    |
| 9        | 8-9-10   |
| 10       | 9-10-11  |
| 11       | 10-11-12 |
| 12       | 11-12-13 |
| 13       | 12-13-14 |
| 14       | 13-14-15 |
| 15       | 14-15    |
| 17       | 17       |

| Pear no. | Wire rope Ø | Work. load* | Break. load | Size in mm |     |    |     |      |      |    |    |    | Weight |
|----------|-------------|-------------|-------------|------------|-----|----|-----|------|------|----|----|----|--------|
|          | mm          |             |             | kg         | kg  | A  | B   | C    | D    | E  | F  | G  |        |
| 1        | 10-11       | 1500        | 10000       | 81         | 48  | 22 | 195 | 12   | 11,5 | 20 | 24 | 12 | 0,4    |
| 2        | 12-13       | 2000        | 14000       | 95         | 56  | 25 | 195 | 15,5 | 13,5 | 22 | 25 | 14 | 0,5    |
| 3        | 14-15       | 2500        | 17500       | 109        | 64  | 28 | 220 | 17,5 | 15,5 | 24 | 29 | 16 | 0,6    |
| 4        | 16-17       | 3000        | 22500       | 123        | 70  | 31 | 220 | 19,5 | 17,5 | 26 | 31 | 18 | 0,9    |
| 5        | 18-19       | 4500        | 27500       | 135        | 84  | 33 | 245 | 21   | 19   | 30 | 42 | 20 | 1,3    |
| 6        | 20-21       | 5000        | 35000       | 152        | 84  | 36 | 310 | 23   | 21   | 33 | 38 | 23 | 1,7    |
| 7        | 22-24       | 7000        | 42500       | 166        | 100 | 40 | 310 | 26   | 23   | 37 | 48 | 26 | 2,3    |
| 8        | 25-27       | 8000        | 52500       | 186        | 100 | 43 | 350 | 28   | 25   | 39 | 44 | 29 | 3,2    |
| 9        | 28-30       | 11000       | 70000       | 202        | 120 | 45 | 350 | 31   | 27   | 40 | 58 | 32 | 4,1    |
| 10       | 31-33       | 13000       | 85000       | 222        | 120 | 52 | 445 | 32   | 28,5 | 45 | 56 | 37 | 5,2    |
| 11       | 34-36       | 15000       | 95000       | 239        | 142 | 55 | 445 | 36   | 31,5 | 50 | 70 | 40 | 6,4    |
| 12       | 37-39       | 17000       | 110000      | 264        | 142 | 60 | 495 | 39   | 34,5 | 51 | 64 | 41 | 7,9    |
| 13       | 40-42       | 21000       | 125000      | 285        | 166 | 63 | 555 | 43   | 36,5 | 59 | 80 | 44 | 9,5    |
| 14       | 43-45       | 26000       | 155000      | 312        | 166 | 68 | 595 | 47   | 40   | 62 | 72 | 48 | 11,2   |
| 15       | 46-48       | 30000       | 180000      | 337        | 170 | 75 | 595 | 51   | 44   | 66 | 68 | 53 | 13     |
| 17       | 52-56       | 42500       | 240000      | 400        | 220 | 84 | 880 | 60   | 54   | 75 | 90 | 59 | 23     |

## 6. Technical specifications of Nemag Rope Pear Sockets type S



## 8. Possible combinations

| Pear no. | Link no. |
|----------|----------|
| 924      | 8-9-10   |
| 1026     | 9-10-11  |
| 1130     | 10-11-12 |
| 1232     | 11-12    |
| 1336     | 12-13-14 |
| 1440     | 13-14-15 |
| 3221     | 15       |
| 1548     | 14-15    |
| 1648     | 15-17    |

| Pear no. | Wire rope Ø | Work. load* | Break. load | Size in mm |     |    |     |    |      |    |    |    | Weight |
|----------|-------------|-------------|-------------|------------|-----|----|-----|----|------|----|----|----|--------|
|          | mm          |             |             | kg         | kg  | A  | B   | C  | D    | E  | F  | G  |        |
| 924      | 22-24       | 11000       | 70000       | 192        | 133 | 40 | 325 | 31 | 27   | 40 | 58 | 27 | 4      |
| 1026     | 25-27       | 13000       | 85000       | 212        | 143 | 43 | 375 | 35 | 30,5 | 43 | 60 | 30 | 5      |
| 1130     | 28-30       | 15000       | 95000       | 239        | 156 | 45 | 400 | 36 | 31,5 | 50 | 70 | 33 | 7      |
| 1232     | 31-33       | 17000       | 110000      | 249        | 165 | 52 | 450 | 39 | 34,5 | 57 | 72 | 36 | 8,5    |
| 1336     | 34-36       | 21000       | 125000      | 285        | 184 | 62 | 450 | 43 | 36,5 | 60 | 80 | 40 | 9,5    |
| 1440     | 37-40       | 26000       | 155000      | 297        | 192 | 60 | 475 | 47 | 40   | 62 | 80 | 44 | 12     |
| 3221     | 42-44       | 32500       | 189000      | 314        | 204 | 66 | 425 | 53 | 46   | 70 | 80 | 47 | 13,5   |
| 1548     | 46-48       | 30000       | 180000      | 329        | 192 | 67 | 575 | 51 | 44   | 66 | 80 | 52 | 12,5   |
| 1648     | 46-48       | 36000       | 215000      | 343        | 218 | 70 | 500 | 56 | 50   | 75 | 90 | 52 | 18     |