

# Female rod ends **DIN ISO 12240-4** ISO

## CFF<sub>RH</sub> Steel/self-lubricating bronze contact CFF<sub>LH</sub>

- Female threaded rod end conforming to  
DIN ISO 12240-4 K series

- Materials:

Sphere: Steel 100CG ground and polished

Insert: Bronze

Housing:

sizes 5 to 12- low carbonised steel

sizes 16 to 35 - high carbon steel alloy,

surface is galvanised and passivated

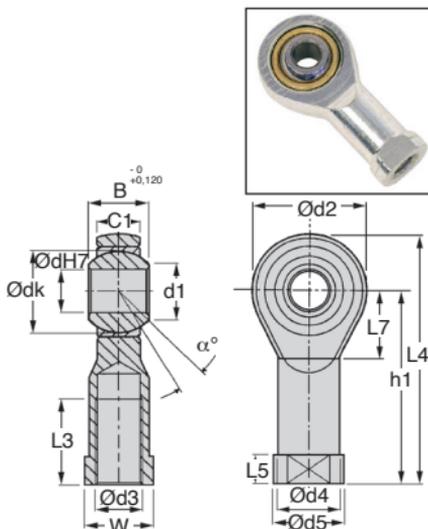
- Working temperature: -30°C to +120°C  
(150°C occasionally)

### Advantages

- Self-lubricating
- Maintenance free
- Bearing surface wear-resistant
- Low friction

### Application

- Oscillating movements



### DISCOUNTS

| Qty   | 1+   | 6+   | 20+  | 40+  | 60+        |
|-------|------|------|------|------|------------|
| Disc. | List | -15% | -20% | -30% | On request |

| Part number | Ød | Ød3      | B  | C1    | Ød1   | Ød2 | Ød4   | Ød5 | Ødk    | h1  | L3 | L4  | L5    | L7 | W  |
|-------------|----|----------|----|-------|-------|-----|-------|-----|--------|-----|----|-----|-------|----|----|
| CFF.00.05   | 5  | M5x0,8   | 8  | 6,00  | 7,70  | 18  | 9,00  | 11  | 11,112 | 27  | 10 | 36  | 4,00  | 10 | 9  |
| CFF.00.06   | 6  | M6x1     | 9  | 6,75  | 8,90  | 20  | 10,00 | 13  | 12,700 | 30  | 12 | 40  | 5,00  | 11 | 11 |
| CFF.00.08   | 8  | M8x1,25  | 12 | 9,00  | 10,40 | 24  | 12,50 | 16  | 15,875 | 36  | 16 | 48  | 5,00  | 13 | 14 |
| CFF.00.10   | 10 | M10x1,5  | 14 | 10,50 | 12,90 | 28  | 15,00 | 19  | 19,050 | 43  | 20 | 57  | 6,50  | 15 | 17 |
| CFF.00.12   | 12 | M12x1,75 | 16 | 12,00 | 15,40 | 32  | 17,50 | 22  | 22,225 | 50  | 22 | 66  | 6,50  | 17 | 19 |
| CFF.00.16   | 16 | M16x2    | 21 | 15,00 | 19,30 | 42  | 22,00 | 27  | 28,575 | 64  | 28 | 85  | 8,00  | 23 | 22 |
| CFF.00.20   | 20 | M20x2,5  | 25 | 18,00 | 24,30 | 50  | 27,50 | 34  | 34,925 | 77  | 33 | 102 | 10,00 | 27 | 30 |
| CFF.00.30   | 30 | M30x2    | 37 | 25,00 | 34,80 | 70  | 40,00 | 50  | 50,800 | 110 | 51 | 145 | 15,00 | 36 | 41 |
| CFF.00.35   | 35 | M36x2    | 43 | 28,00 | 37,70 | 80  | 46,00 | 58  | 57,150 | 125 | 56 | 165 | 17,00 | 41 | 50 |

| Part number               | Radial static load F <sub>s</sub> (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Stock* |    | Price each 1 to 5 |          |
|---------------------------|---|--------------------------------------|-------------------|------------|--------|----|-------------------|----------|
|                           |   |                                      |                   |            | RH     | LH | RH                | LH       |
| CFF.00.05/RH CFF.00.05/LH | 600                                     | 100                                  | 13                | 19         | ✓      | ✓  | 13,87 €           | 16,04 €  |
| CFF.00.06/RH CFF.00.06/LH | 700                                     | 120                                  | 13                | 26         | ✓      | ✓  | 11,89 €           | 13,77 €  |
| CFF.00.08/RH CFF.00.08/LH | 1 200                                   | 170                                  | 14                | 46         | ✓      | ✓  | 12,49 €           | 14,45 €  |
| CFF.00.10/RH CFF.00.10/LH | 1 400                                   | 200                                  | 13                | 76         | ✓      | ✓  | 14,11 €           | 16,33 €  |
| CFF.00.12/RH CFF.00.12/LH | 1 900                                   | 270                                  | 13                | 110        | ✓      | ✓  | 17,13 €           | 19,80 €  |
| CFF.00.16/RH CFF.00.16/LH | 4 800                                   | 550                                  | 15                | 220        | ✓      | ✓  | 34,40 €           | 39,72 €  |
| CFF.00.20/RH CFF.00.20/LH | 5 200                                   | 600                                  | 14                | 409        | ✓      | -  | 62,22 €           | 71,79 €  |
| CFF.00.30/RH CFF.00.30/LH | 10 800                                  | 1 200                                | 17                | 1 140      | ✓      | -  | 146,95 €          | 169,57 € |
| CFF.00.35/RH CFF.00.35/LH | 12 400                                  | 1 400                                | 19                | 1 600      | -      | -  | 180,24 €          | 207,99 € |

\*Depending on availability - Dimensions in mm



## Steel/self-lubricating bronze contact **CMMRH** **CMMLH**

### - Male threaded rod end conforming to DIN ISO 12240-4 K series

- Static axial load = 0.2 x static radial load

- Materials:

Sphere: Steel 100CG ground and polished

Insert: Bronze

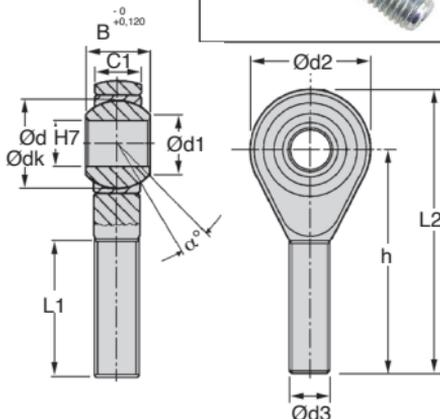
Housing:

sizes 5 to 12- low carbon steel

sizes 16 to 35 – high carbon steel alloy,

surface is galvanised and passivated

- Working temperature: -30°C to +120°C (150°C occasionally)



### Advantages

- Self-lubricating
- Maintenance free
- Bearing surface wear-resistant
- Low friction

### Application

- Oscillating movements

### DISCOUNTS

| Qty   | 1+   | 6+   | 20+  | 40+  | 60+        |
|-------|------|------|------|------|------------|
| Disc. | List | -15% | -20% | -30% | On request |

| Part number | Ød | Ød3        | B  | C1    | Ød1   | Ød2 | Ødk    | h  | L1 | L2  |
|-------------|----|------------|----|-------|-------|-----|--------|----|----|-----|
| CMM.00.05   | 5  | M5 x 0,8   | 8  | 6,00  | 7,70  | 18  | 11,112 | 33 | 19 | 42  |
| CMM.00.06   | 6  | M6 x 1     | 9  | 6,75  | 8,90  | 20  | 12,700 | 36 | 21 | 46  |
| CMM.00.08   | 8  | M8 x 1,25  | 12 | 9,00  | 10,40 | 24  | 15,875 | 42 | 25 | 54  |
| CMM.00.10   | 10 | M10 x 1,5  | 14 | 10,50 | 12,90 | 28  | 19,050 | 48 | 28 | 62  |
| CMM.00.12   | 12 | M12 x 1,75 | 16 | 12,00 | 15,40 | 32  | 22,225 | 54 | 32 | 70  |
| CMM.00.16   | 16 | M16 x 2    | 21 | 15,00 | 19,30 | 42  | 28,575 | 66 | 37 | 87  |
| CMM.00.20   | 20 | M20 x 2,5  | 25 | 18,00 | 24,30 | 50  | 34,925 | 78 | 45 | 103 |

| Part number  |              | Radial static load F <sub>s</sub> (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Stock* RH | Stock* LH | Price each 1 to 5 |         |
|--------------|--------------|---|--------------------------------------|-------------------|------------|-----------|-----------|-------------------|---------|
| RH threading | LH threading |   |                                      |                   |            |           |           | RH                | LH      |
| CMM.00.05/RH | CMM.00.05/LH | 300                                     | 100                                  | 13                | 15         | ✓         | -         | 19,52 €           | 22,49 € |
| CMM.00.06/RH | CMM.00.06/LH | 400                                     | 120                                  | 13                | 22         | ✓         | ✓         | 11,89 €           | 13,77 € |
| CMM.00.08/RH | CMM.00.08/LH | 800                                     | 170                                  | 14                | 38         | ✓         | ✓         | 12,56 €           | 14,54 € |
| CMM.00.10/RH | CMM.00.10/LH | 1 300                                   | 200                                  | 13                | 63         | ✓         | ✓         | 14,11 €           | 16,33 € |
| CMM.00.12/RH | CMM.00.12/LH | 1 700                                   | 270                                  | 13                | 100        | ✓         | ✓         | 17,13 €           | 19,80 € |
| CMM.00.16/RH | CMM.00.16/LH | 4 800                                   | 550                                  | 15                | 195        | ✓         | ✓         | 37,34 €           | 43,13 € |
| CMM.00.20/RH | -            | 5 200                                   | 600                                  | 14                | 370        | ✓         | -         | 57,06 €           | -       |

\* Depending on availability - Dimensions in mm

## CFF<sub>SS</sub> Stainless steel/self-lubricating bronze contact

- Female threaded rod end conforming to DIN ISO 12240-4

**K series**

- Materials:

- Sphere: Stainless steel 420, ground and polished
- Insert: self lubricating bronze
- Housing: Stainless steel 304

**Economy range**

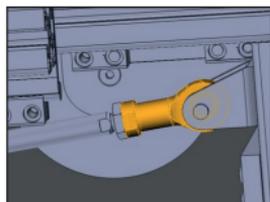


### Advantages

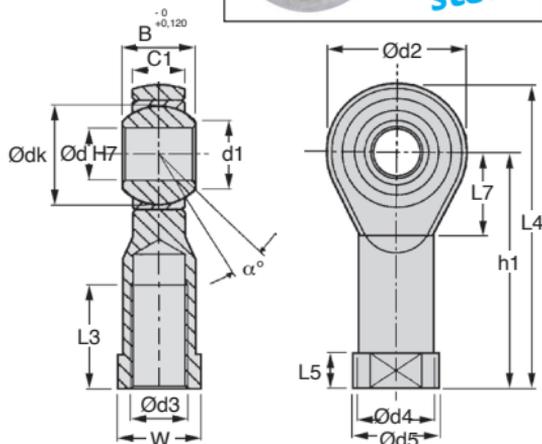
- Self-lubricating
- No maintenance required
- Bearing surface resistant to wear
- Low friction

### Application

- Oscillating movements



Typical application



### DISCOUNTS

|       |      |      |            |
|-------|------|------|------------|
| Qty   | 1+   | 6+   | 10+        |
| Disc. | List | -15% | On request |

| Part number  | Ød | Ød3      | B  | C1    | Ød1   | Ød2 | Ød4   | Ød5 | Ødk   | h1 | L3 | L4  | L5    | L7 | W  |
|--------------|----|----------|----|-------|-------|-----|-------|-----|-------|----|----|-----|-------|----|----|
| CFF.00.06/SS | 6  | M60x1    | 9  | 6,75  | 8,90  | 20  | 10,00 | 13  | 12,70 | 30 | 12 | 40  | 5,00  | 11 | 11 |
| CFF.00.08/SS | 8  | M80x1,25 | 12 | 09,00 | 10,40 | 24  | 12,50 | 16  | 15,90 | 36 | 16 | 048 | 05,00 | 13 | 14 |
| CFF.00.10/SS | 10 | M10x1,5  | 14 | 10,50 | 12,90 | 28  | 15,00 | 19  | 19,10 | 43 | 20 | 057 | 06,50 | 15 | 17 |
| CFF.00.12/SS | 12 | M12x1,75 | 16 | 12,00 | 15,40 | 32  | 17,50 | 22  | 22,22 | 50 | 22 | 066 | 06,50 | 17 | 19 |
| CFF.00.16/SS | 16 | M16x2    | 21 | 15,00 | 19,30 | 42  | 22,00 | 27  | 28,60 | 64 | 28 | 085 | 08,00 | 23 | 22 |
| CFF.00.20/SS | 20 | M20x2,5  | 25 | 18,00 | 24,30 | 50  | 27,50 | 34  | 34,90 | 77 | 33 | 102 | 10,00 | 27 | 30 |

| Part number<br>RH threading | Radial static load F <sub>s</sub> (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Price each 1 to 5 |
|-----------------------------|---|--------------------------------------|-------------------|------------|-------------------|
| CFF.00.06/RH/SS             | 700                                     | 120                                  | 13                | 25         | 79,49 €           |
| CFF.00.08/RH/SS             | 1 200                                   | 170                                  | 14                | 46         | 98,48 €           |
| CFF.00.10/RH/SS             | 1 400                                   | 200                                  | 13                | 75         | 121,51 €          |
| CFF.00.12/RH/SS             | 1 900                                   | 270                                  | 13                | 112        | 142,96 €          |
| CFF.00.16/RH/SS             | 4 800                                   | 550                                  | 15                | 222        | 265,33 €          |
| CFF.00.20/RH/SS             | 5 200                                   | 600                                  | 14                | 406        | 300,70 €          |

\*Depending on availability - Dimensions in mm

## Stainless steel/self-lubricating bronze **CMMss**

- **Male threaded rod end conforming to DIN ISO 12240-4 K series**

- **Materials:**

Sphere: Stainless steel 420, ground and polished

Insert: self lubricating bronze

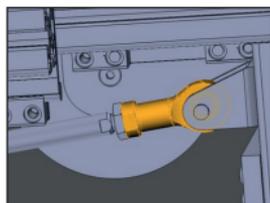
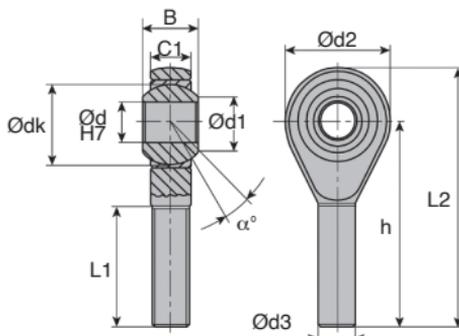
Housing: Stainless steel 304

### Advantages

- Self-lubricating
- Maintenance free
- Bearing surface resistant to wear
- Low friction

### Application

- Oscillating movements



Typical application

### DISCOUNTS

|       |      |      |            |
|-------|------|------|------------|
| Qty   | 1+   | 6+   | 10+        |
| Disc. | List | -15% | On request |

| Part number     | Ød | Ød3      | B  | C1    | Ød1   | Ød2 | Ødk    | h  | L1 | L2  |
|-----------------|----|----------|----|-------|-------|-----|--------|----|----|-----|
| CMM.00.06/RH/SS | 6  | M6x1,00  | 9  | 6,75  | 8,90  | 20  | 12,700 | 36 | 21 | 46  |
| CMM.00.08/RH/SS | 8  | M8x1,25  | 12 | 9,00  | 10,40 | 24  | 15,875 | 42 | 25 | 54  |
| CMM.00.10/RH/SS | 10 | M10x1,50 | 14 | 10,50 | 12,90 | 28  | 19,050 | 48 | 28 | 62  |
| CMM.00.12/RH/SS | 12 | M12x1,75 | 16 | 12,00 | 15,40 | 32  | 22,225 | 54 | 32 | 70  |
| CMM.00.16/RH/SS | 16 | M16x2,00 | 21 | 15,00 | 19,30 | 42  | 28,575 | 66 | 37 | 87  |
| CMM.00.20/RH/SS | 20 | M20x2,50 | 25 | 18,00 | 24,30 | 50  | 34,925 | 78 | 45 | 103 |

| Part number     | Radial static load F <sub>s</sub> (daN) | Axial holding load of the ball (daN) | Movement angle α° | Weight (g) | Stock* | Price each 1 to 5 |
|-----------------|---|--------------------------------------|-------------------|------------|--------|-------------------|
| CMM.00.06/RH/SS | 400                                     | 120                                  | 13°               | 21         | ✓      | 79,49 €           |
| CMM.00.08/RH/SS | 800                                     | 170                                  | 14°               | 40         | ✓      | 98,48 €           |
| CMM.00.10/RH/SS | 1300                                    | 200                                  | 13°               | 64         | ✓      | 121,51 €          |
| CMM.00.12/RH/SS | 1700                                    | 270                                  | 13°               | 97         | -      | 142,96 €          |
| CMM.00.16/RH/SS | 4800                                    | 550                                  | 15°               | 208        | -      | 265,33 €          |
| CMM.00.20/RH/SS | 5200                                    | 600                                  | 14°               | 367        | -      | 300,70 €          |

\*Depending on availability - Dimensions in mm

# Female rod ends



Stainless steel/Teflon contact

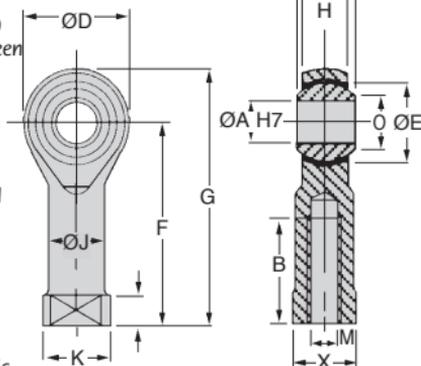
- Female threaded rod end
- Axial static load = 0.2 x radial static load
- Materials:  
Housing: stainless steel 303  
Insert: stainless steel 303  
Sphere: stainless steel 420  
Coating: UNIFLON® between ring and sphere

## Advantages

- Long life expectancy
- Low friction
- No maintenance required
- Corrosion resistant

## Applications

- Oscillating movement in hostile environments (water, salt, dampness, other difficult atmospheric conditions...)



Swiss precision



stainless steel

## DISCOUNTS

|       |      |      |            |
|-------|------|------|------------|
| Qty   | 1+   | 10+  | 24+        |
| Disc. | List | -20% | On request |

| Part number | ØA | B  | ØD | F  | G  | H     | ØJ    | K     | L     | M          | O     | W  | X     |
|-------------|----|----|----|----|----|-------|-------|-------|-------|------------|-------|----|-------|
| SFE3.45     | 3  | 10 | 12 | 21 | 27 | 4,50  | 5,00  | 6,50  | 3,00  | M3 x 0,50  | 5,18  | 6  | 5,50  |
| SFE5.45     | 5  | 14 | 16 | 27 | 35 | 6,00  | 7,50  | 9,50  | 4,00  | M5 x 0,80  | 7,71  | 8  | 8,00  |
| SFE6.45     | 6  | 14 | 18 | 30 | 39 | 6,75  | 9,50  | 12,00 | 5,00  | M6 x 1     | 8,98  | 9  | 10,00 |
| SFE8.45     | 8  | 17 | 22 | 36 | 47 | 9,00  | 12,50 | 16,00 | 5,00  | M8 x 1,25  | 10,40 | 12 | 13,00 |
| SFE10.45    | 10 | 20 | 26 | 43 | 56 | 10,50 | 15,00 | 19,00 | 6,50  | M10 x 1,50 | 12,92 | 14 | 16,00 |
| SFE12.45    | 12 | 22 | 30 | 50 | 65 | 12,00 | 17,50 | 22,00 | 6,50  | M12 x 1,75 | 15,43 | 16 | 18,00 |
| SFE14.45    | 14 | 27 | 34 | 57 | 74 | 13,50 | 20,00 | 25,00 | 8,00  | M14 x 2    | 16,86 | 19 | 21,00 |
| SFE16.45    | 16 | 33 | 38 | 64 | 83 | 15,00 | 22,00 | 27,00 | 8,00  | M16 x 2    | 19,39 | 21 | 24,00 |
| SFE18.45    | 18 | 36 | 42 | 71 | 92 | 16,50 | 25,00 | 31,00 | 10,00 | M18 x 1,50 | 21,89 | 23 | 27,00 |

| Part number | Radial static load (daN) | Sphere ØE | Weight (g) | Price each 1 to 5 |
|-------------|--------------------------|-----------|------------|-------------------|
| SFE3.45     | 160                      | 6,00      | 7          | 221,62 €          |
| SFE5.45     | 250                      | 11,11     | 14         | 173,36 €          |
| SFE6.45     | 300                      | 12,70     | 22         | 163,21 €          |
| SFE8.45     | 450                      | 15,88     | 38         | 173,68 €          |
| SFE10.45    | 600                      | 19,05     | 70         | 199,71 €          |
| SFE12.45    | 770                      | 22,23     | 110        | 238,39 €          |
| SFE14.45    | 940                      | 25,40     | 150        | 246,71 €          |
| SFE16.45    | 1140                     | 28,58     | 200        | 406,54 €          |
| SFE18.45    | 1370                     | 31,75     | 280        | 724,33 €          |

Dimensions in mm

- **Male threaded rod end**
- Axial static load = 0.2 x radial static load
- Materials:
  - Housing: stainless steel 303
  - Insert: stainless steel 303
  - Sphere: stainless steel 420
  - Coating UNIFLON® between ring and ball

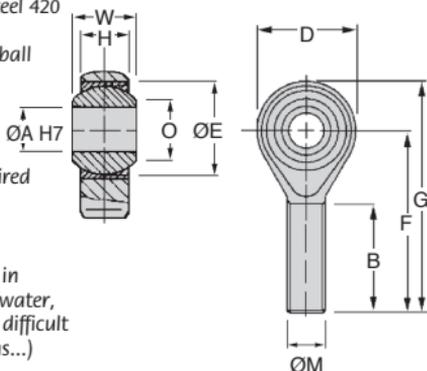
**Swiss precision**

### Advantages

- Long life expectancy
- Low friction
- No maintenance required
- Corrosion resistant

### Applications

- Oscillating movement in hostile environments (water, salt, dampness, other difficult atmospheric conditions...)



**stainless steel**

### DISCOUNTS

|       |      |      |            |
|-------|------|------|------------|
| Qty   | 1+   | 10+  | 24+        |
| Disc. | List | -20% | On request |

| Part number | ØA | B  | D  | F  | G  | H     | ØM         | O     | W  |
|-------------|----|----|----|----|----|-------|------------|-------|----|
| SME3.45     | 3  | 15 | 12 | 27 | 33 | 4,50  | M3 x 0,50  | 05,18 | 06 |
| SME5.45     | 5  | 20 | 16 | 33 | 41 | 6,00  | M5 x 0,80  | 07,71 | 08 |
| SME6.45     | 6  | 22 | 18 | 36 | 45 | 6,75  | M6 x 1     | 08,96 | 09 |
| SME8.45     | 8  | 25 | 22 | 42 | 53 | 9,00  | M8 x 1,25  | 10,40 | 12 |
| SME10.45    | 10 | 29 | 26 | 48 | 61 | 10,50 | M10 x 1,50 | 12,92 | 14 |
| SME12.45    | 12 | 33 | 30 | 54 | 69 | 12,00 | M12 x 1,75 | 15,43 | 16 |
| SME14.45    | 14 | 36 | 34 | 60 | 77 | 13,50 | M14 x 2    | 16,86 | 19 |
| SME16.45    | 16 | 40 | 38 | 66 | 85 | 15,00 | M16 x 2    | 19,39 | 21 |
| SME18.45    | 18 | 44 | 42 | 72 | 93 | 16,50 | M18 x 1,50 | 21,89 | 23 |

| Part number | Radial static load (daN) | Sphere ØE | Weight (g) | Price each 1 to 9 |
|-------------|--------------------------|-----------|------------|-------------------|
| SME3.45     | 50                       | 7,93      | 5          | 221,62 €          |
| SME5.45     | 150                      | 11,11     | 13         | 230,52 €          |
| SME6.45     | 210                      | 12,70     | 19         | 190,08 €          |
| SME8.45     | 400                      | 15,88     | 35         | 169,58 €          |
| SME10.45    | 600                      | 19,05     | 57         | 202,33 €          |
| SME12.45    | 770                      | 22,23     | 87         | 230,75 €          |
| SME14.45    | 940                      | 25,40     | 120        | 384,04 €          |
| SME16.45    | 1140                     | 28,58     | 170        | 428,57 €          |
| SME18.45    | 1370                     | 31,75     | 240        | 704,63 €          |

Dimensions in mm