

## Clamping Element Systems

EH 23700.



## PRODUCT DESCRIPTION

## Material

## Body

- Steel, blackened

## Wearing parts

- Heat-treated steel

## Pull-rod

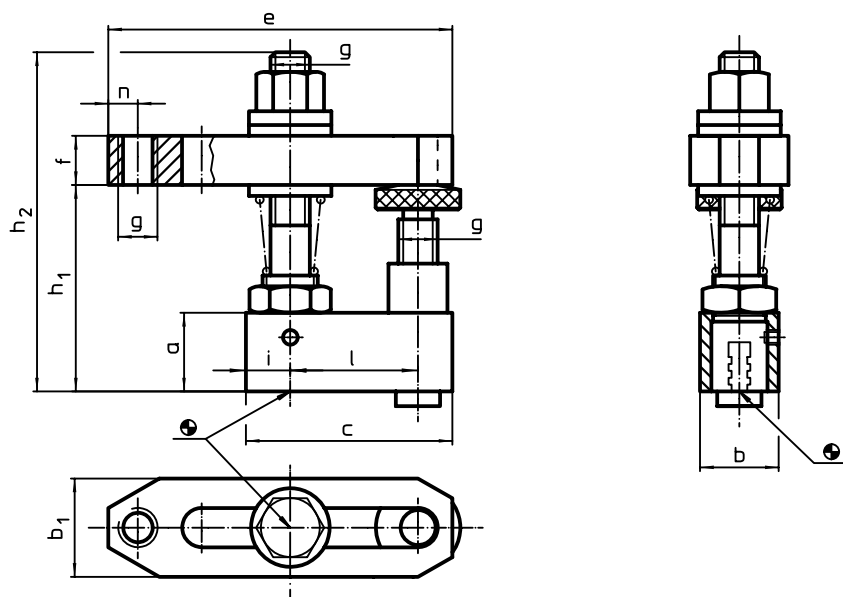
- Special steel

## MORE INFORMATION

## Further products

- Straight Clamps, long ..... → p. 447
- Intermediate Elements ..... → p. 448
- Intermediate Elements, with support... → p. 449
- Base Elements ..... → p. 450
- Base Elements, swivelling ..... → p. 451
- Base Elements, low ..... → p. 452
- Base Elements, for location hole ..... → p. 453

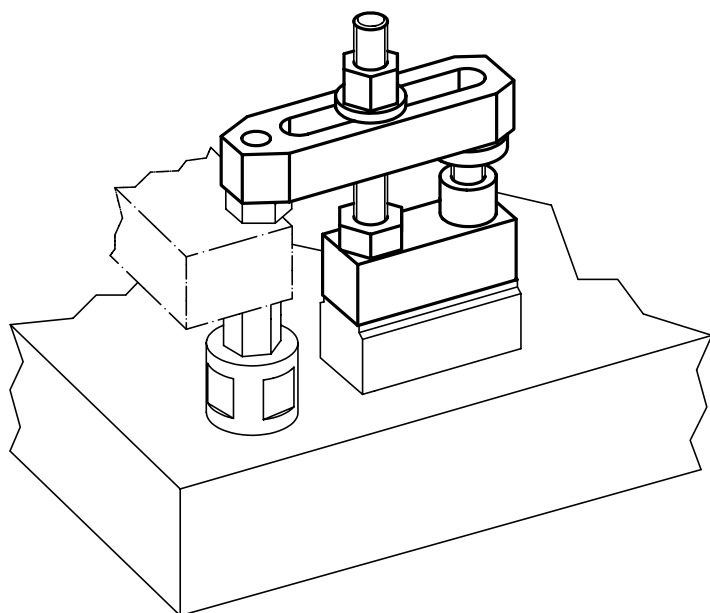
## DRAWING



## ORDER INFORMATION

| Dimensions |    |    |                |     |    |     |                |                |      |    |    |  | Art. No.   |
|------------|----|----|----------------|-----|----|-----|----------------|----------------|------|----|----|---------------------------------------------------------------------------------------|------------|
| a          | b  | c  | b <sub>1</sub> | e   | f  | g   | h <sub>1</sub> | h <sub>2</sub> | i    | l  | n  |                                                                                       |            |
| [mm]       |    |    |                |     |    |     |                |                |      |    |    | [g]                                                                                   |            |
| 25         | 25 | 65 | 35             | 110 | 20 | M12 | 48 – 78        | 112            | 12.5 | 40 | 10 | 870                                                                                   | 23700.0012 |
| 30         | 30 | 78 | 40             | 142 | 30 | M16 | 60 – 96        | 145            | 14.0 | 50 | 13 | 1703                                                                                  | 23700.0016 |

## APPLICATION EXAMPLE



Straight Clamps • short  
EH 23700.

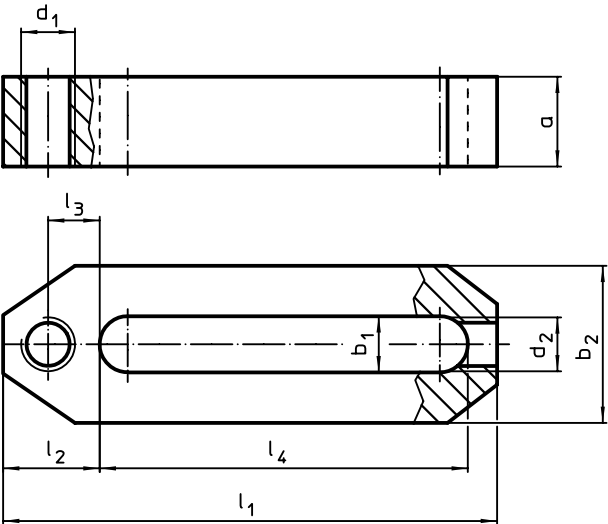


PRODUCT DESCRIPTION

Material

- Heat-treated steel, tempered, blackened

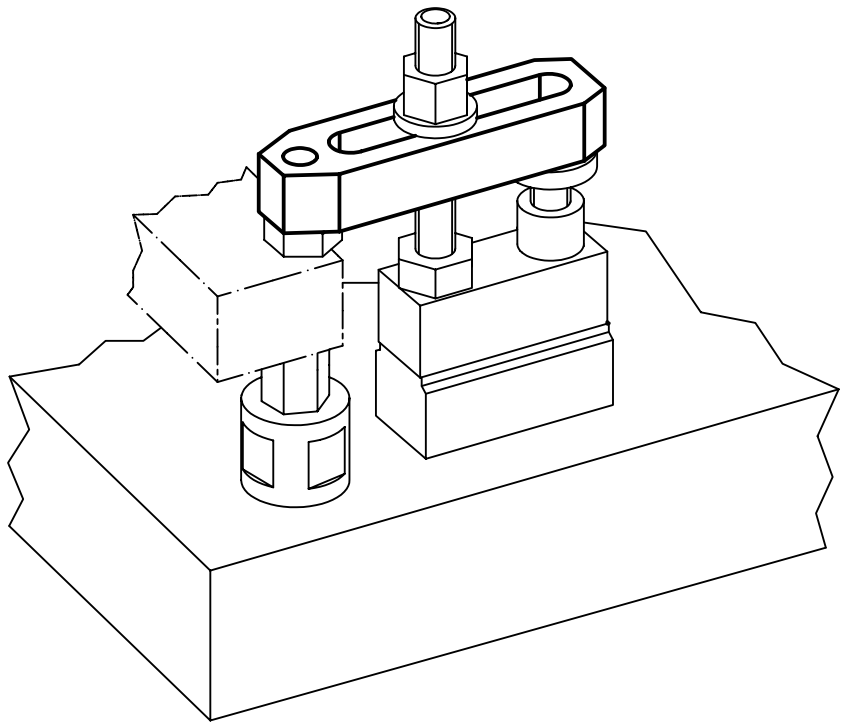
DRAWING



ORDER INFORMATION

| Dimensions |       |     |       |       |       |       |       |       |  | Art. No.                   |
|------------|-------|-----|-------|-------|-------|-------|-------|-------|---------------------------------------------------------------------------------------|----------------------------|
| $b_1$      | $l_1$ | $a$ | $b_2$ | $d_1$ | $d_2$ | $l_2$ | $l_3$ | $l_4$ |                                                                                       |                            |
| [mm]       |       |     |       |       |       |       |       |       | [g]                                                                                   |                            |
| 12.5       | 110   | 20  | 35    | M12   | M10   | 21.5  | 11.5  | 82    |                                                                                       |                            |
| 17.0       | 142   | 30  | 40    | M16   | M12   | 28.0  | 15.0  | 107   | 370                                                                                   | <a href="#">23700.0022</a> |
|            |       |     |       |       |       |       |       |       | 781                                                                                   | <a href="#">23700.0026</a> |

APPLICATION EXAMPLE



## Straight Clamps • long

EH 23700.

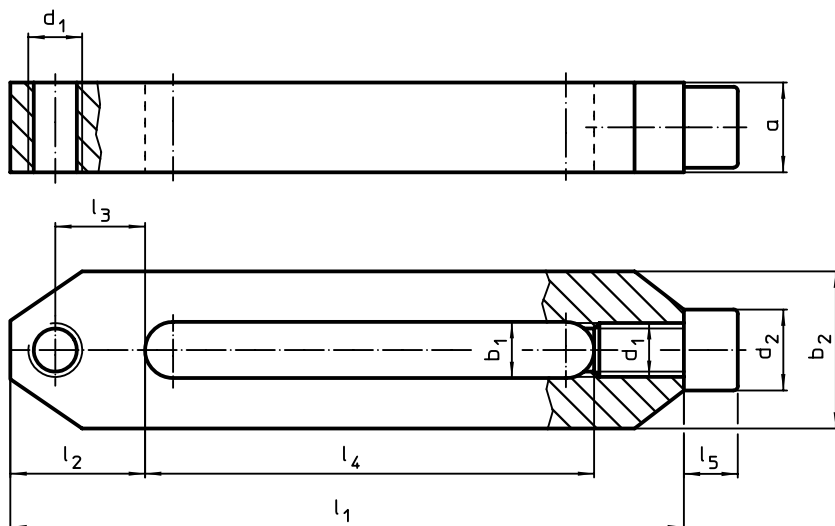


### PRODUCT DESCRIPTION

#### Material

- Heat-treated steel, tempered, blackened

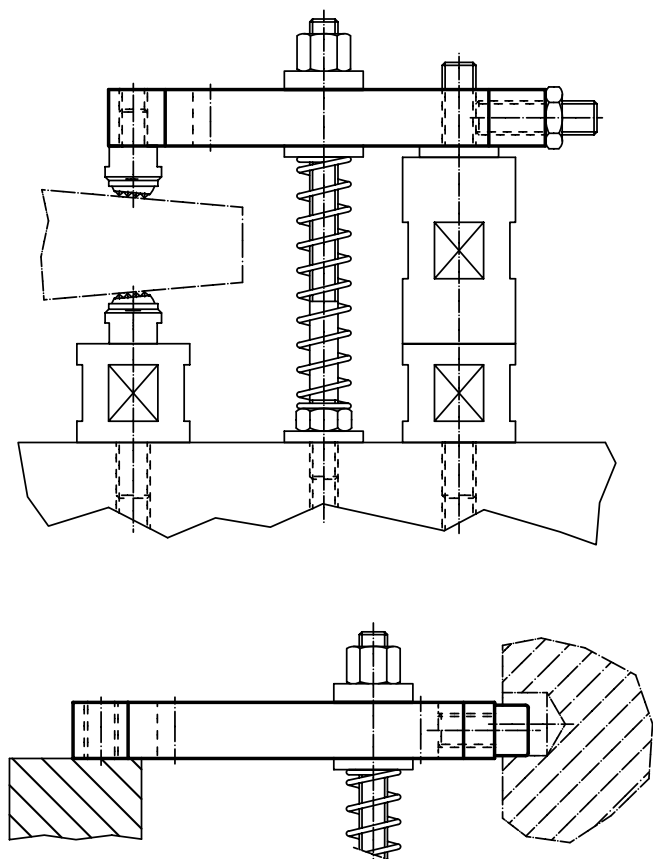
### DRAWING



### ORDER INFORMATION

| Dimensions |       |     |       |       |       |       |       |       |       |  | Art. No.   |
|------------|-------|-----|-------|-------|-------|-------|-------|-------|-------|---------------------------------------------------------------------------------------|------------|
| $b_1$      | $l_1$ | $a$ | $b_2$ | $d_1$ | $l_2$ | $l_3$ | $l_4$ | $l_5$ | $d_2$ |                                                                                       |            |
| [mm]       |       |     |       |       |       |       |       |       |       | [g]                                                                                   |            |
| 12.5       | 156   | 20  | 35.0  | M12   | 30    | 20    | 106   | 12    | 18    |                                                                                       |            |
| 17.0       | 196   | 30  | 45.5  | M16   | 35    | 22    | 136   | 16    | 24    | 1430                                                                                  | 23700.0046 |

### APPLICATION EXAMPLE



Intermediate Elements  
EH 23700.



PRODUCT DESCRIPTION

Material

Body

- Steel, blackened

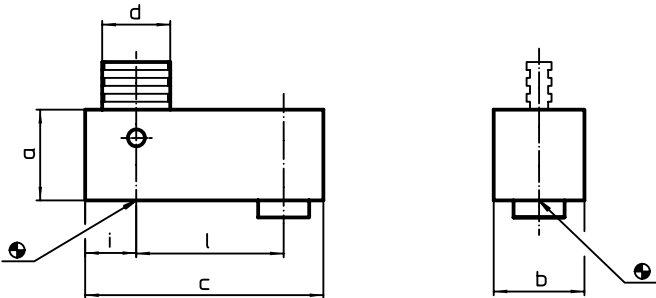
Wearing parts

- Heat-treated steel

Pull-rod

- Special steel

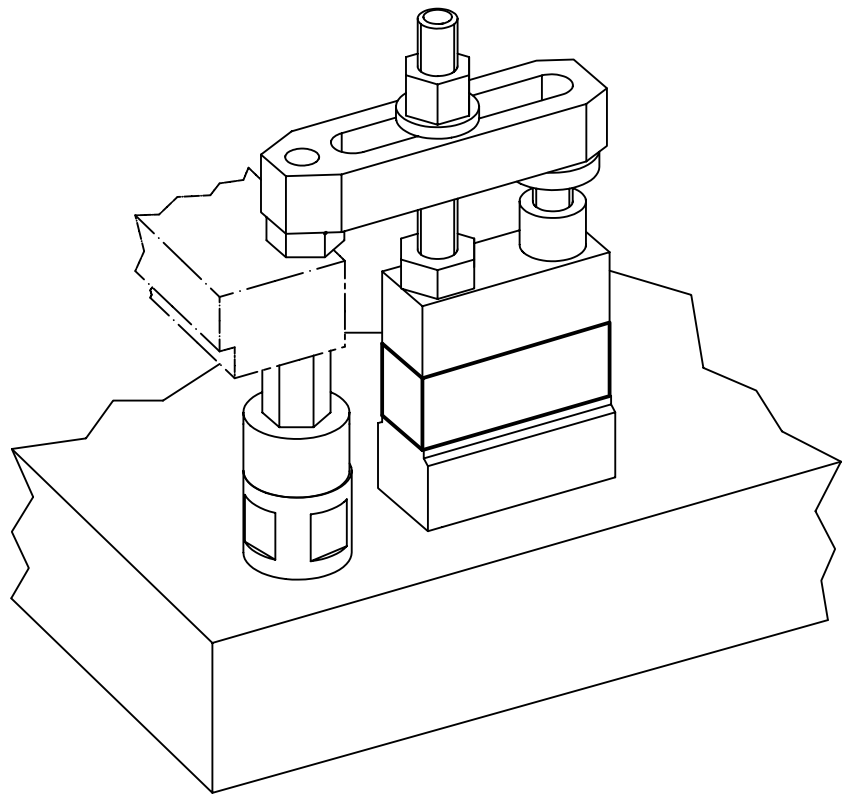
DRAWING



ORDER INFORMATION

| Dimensions |    |    |    |      |    |  | Art. No.                   |
|------------|----|----|----|------|----|-------------------------------------------------------------------------------------|----------------------------|
| a          | b  | c  | d  | i    | l  |                                                                                     |                            |
| [mm]       |    |    |    |      |    | [g]                                                                                 |                            |
| 25         | 25 | 65 | 16 | 12.5 | 40 | 261                                                                                 | <a href="#">23700.0121</a> |
| 50         | 25 | 65 | 16 | 12.5 | 40 | 580                                                                                 | <a href="#">23700.0122</a> |
| 100        | 25 | 65 | 16 | 12.5 | 40 | 1201                                                                                | <a href="#">23700.0123</a> |
| 30         | 30 | 78 | 22 | 14.0 | 50 | 468                                                                                 | <a href="#">23700.0161</a> |
| 60         | 30 | 78 | 22 | 14.0 | 50 | 1032                                                                                | <a href="#">23700.0162</a> |
| 120        | 30 | 78 | 22 | 14.0 | 50 | 2149                                                                                | <a href="#">23700.0163</a> |
| 240        | 30 | 78 | 22 | 14.0 | 50 | 4340                                                                                | <a href="#">23700.0164</a> |

APPLICATION EXAMPLE



**PRODUCT DESCRIPTION****Material****Body**

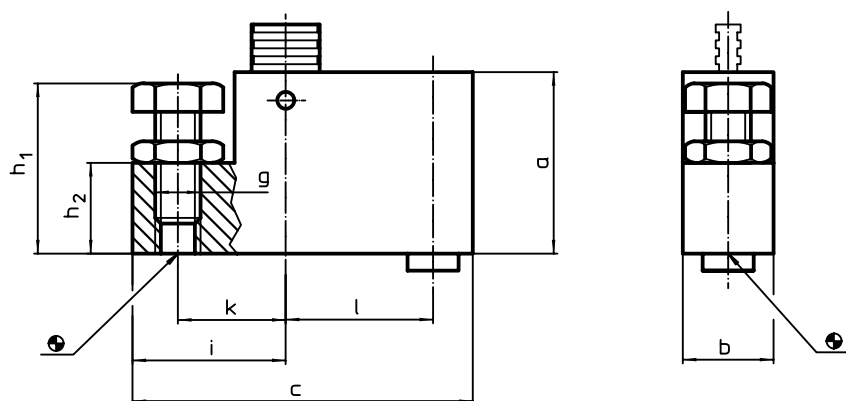
- Steel, blackened

**Wearing parts**

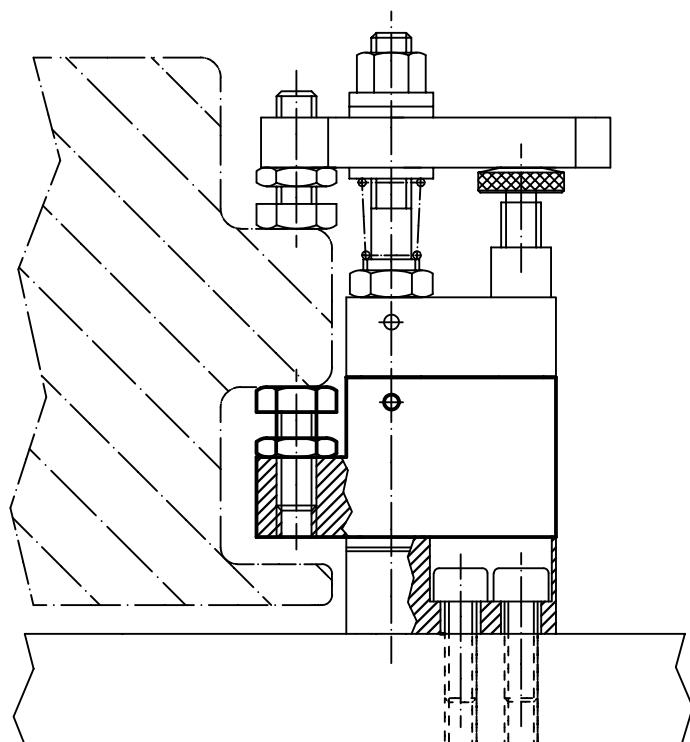
- Heat-treated steel

**Pull-rod**

- Special steel

**DRAWING****ORDER INFORMATION**

| Dimensions |    |     |     |                |                |      |    |    |  |  | Art. No.                   |
|------------|----|-----|-----|----------------|----------------|------|----|----|--|---------------------------------------------------------------------------------------|----------------------------|
| a          | b  | c   | g   | h <sub>1</sub> | h <sub>2</sub> | i    | k  | l  |  |                                                                                       |                            |
| [mm]       |    |     |     |                |                |      |    |    |  | [g]                                                                                   |                            |
| 50         | 25 | 92  | M12 | 38 – 53        | 25             | 39.5 | 28 | 40 |  | 733                                                                                   | <a href="#">23700.0212</a> |
| 60         | 30 | 112 | M16 | 48 – 68        | 30             | 48.0 | 34 | 50 |  | 1331                                                                                  | <a href="#">23700.0216</a> |

**APPLICATION EXAMPLE**

Base Elements

EH 23700.



PRODUCT DESCRIPTION

Material

Body

- Steel, blackened

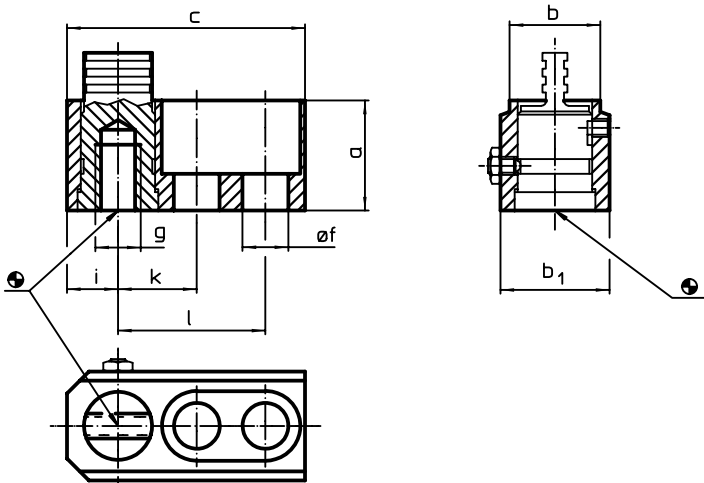
Wearing parts

- Heat-treated steel

Pull-rod

- Special steel

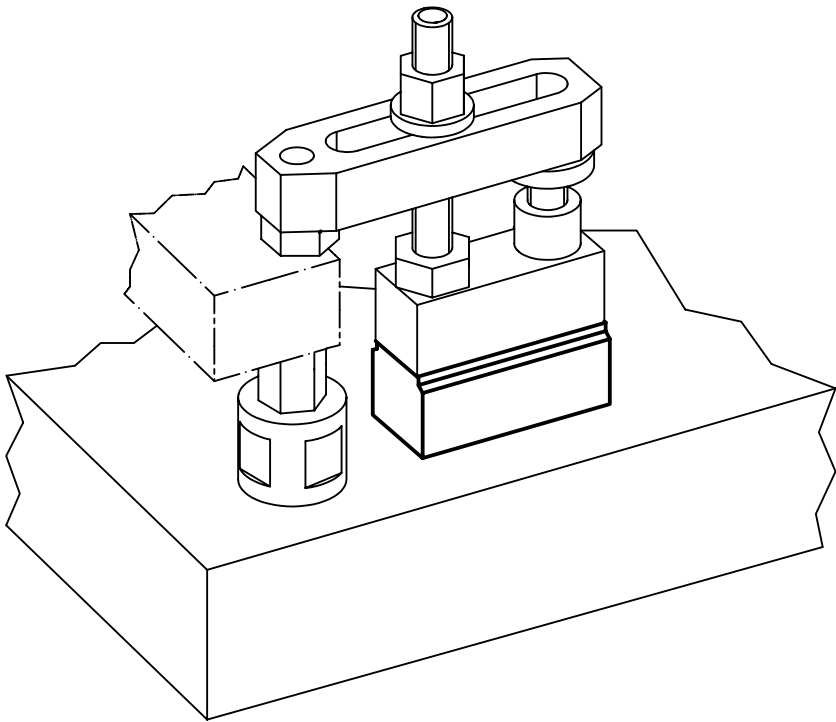
DRAWING



ORDER INFORMATION

| Dimensions |    |    |                |      |     |      |    |    |  | Art. No. |
|------------|----|----|----------------|------|-----|------|----|----|---------------------------------------------------------------------------------------|----------|
| a          | b  | c  | b <sub>1</sub> | f    | g   | i    | k  | l  |                                                                                       |          |
| [mm]       |    |    |                |      |     |      |    |    | [g]                                                                                   |          |
| 30         | 25 | 65 | 30             | 12.5 | M12 | 12.5 | 20 | 40 |                                                                                       |          |
| 40         | 30 | 80 | 40             | 17.0 | M16 | 16.0 | 25 | 50 |                                                                                       |          |

APPLICATION EXAMPLE





PRODUCT DESCRIPTION

Material

- Body**
- Steel, blackened

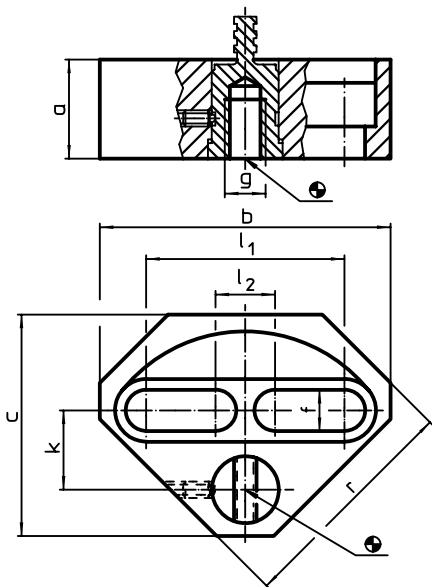
**Wearing parts**

- Heat-treated steel

**Pull-rod**

- Special steel

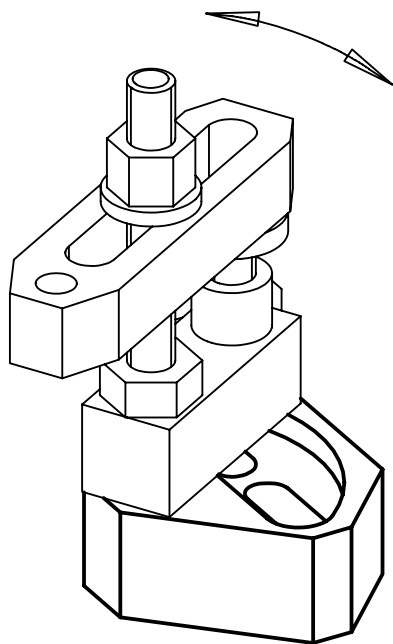
DRAWING



ORDER INFORMATION

| Dimensions |     |    |      |     |    |                |                |    |  | Art. No.                   |
|------------|-----|----|------|-----|----|----------------|----------------|----|---------------------------------------------------------------------------------------|----------------------------|
| a          | b   | c  | f    | g   | k  | l <sub>1</sub> | l <sub>2</sub> | r  |                                                                                       |                            |
| [mm]       |     |    |      |     |    |                |                |    | [g]                                                                                   |                            |
| 29.7       | 90  | 70 | 12.5 | M12 | 24 | 57             | 25             | 73 | 758                                                                                   | <a href="#">23700.0412</a> |
| 39.7       | 110 | 86 | 17.0 | M16 | 30 | 71             | 31             | 90 | 1507                                                                                  | <a href="#">23700.0416</a> |

APPLICATION EXAMPLE



Base Elements • low  
EH 23700.



PRODUCT DESCRIPTION

Material

Body

- Steel, blackened

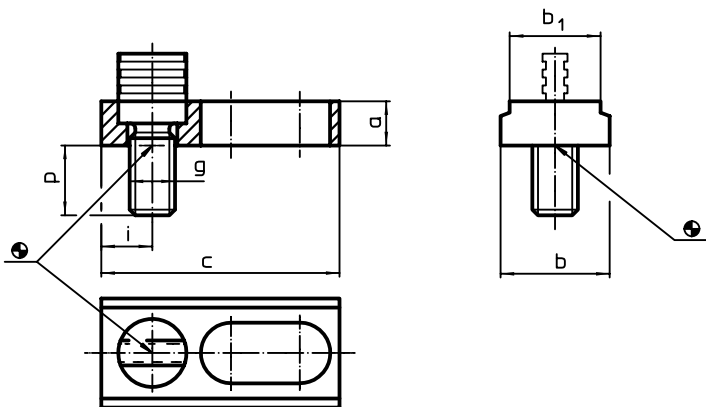
Wearing parts

- Heat-treated steel

Pull-rod

- Special steel

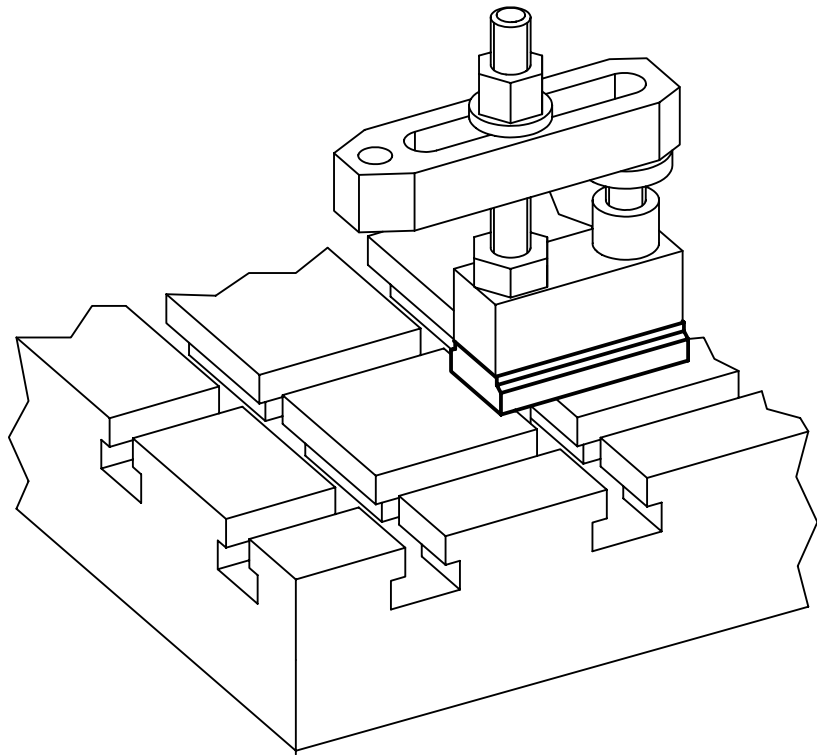
DRAWING



ORDER INFORMATION

| Dimensions |    |    |                        |     |      |    |  | Art. No.   |
|------------|----|----|------------------------|-----|------|----|---------------------------------------------------------------------------------------|------------|
| a          | b  | c  | b <sub>1</sub><br>[mm] | g   | i    | p  |                                                                                       |            |
| 12         | 30 | 65 | 25                     | M12 | 12.5 | 23 | [g]<br>146                                                                            | 23700.0612 |

APPLICATION EXAMPLE





PRODUCT DESCRIPTION

Material

- Body**
- Steel, blackened

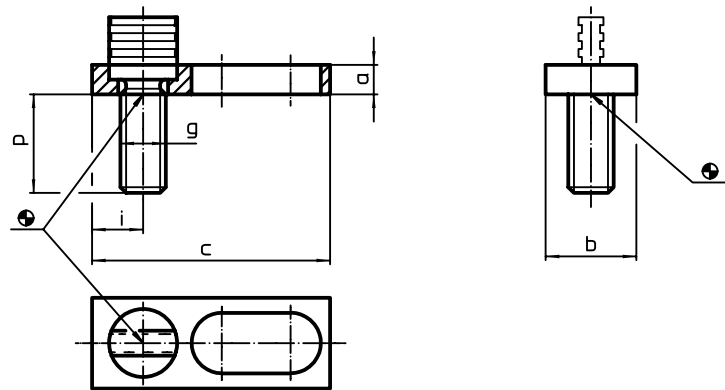
**Wearing parts**

- Heat-treated steel

**Pull-rod**

- Special steel

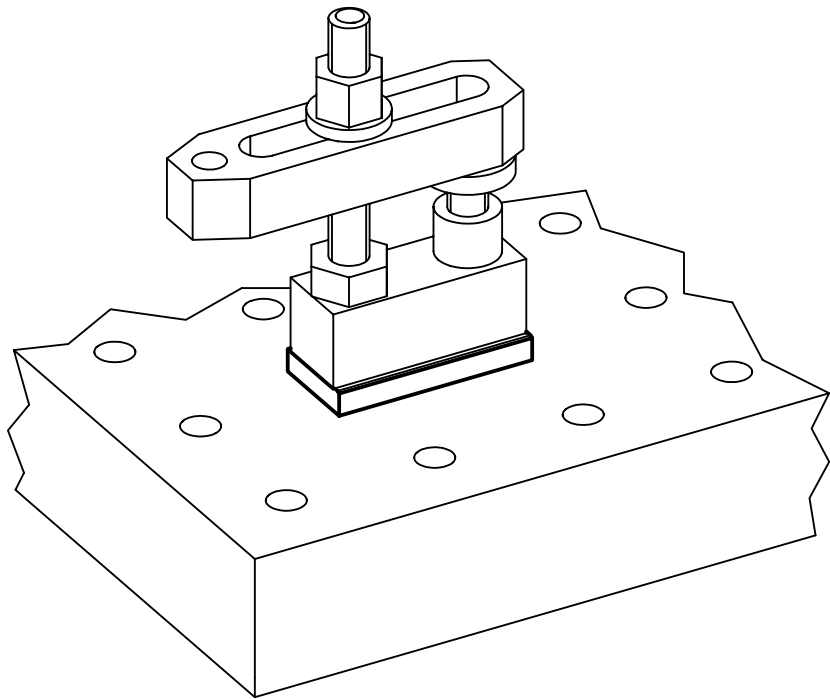
DRAWING



ORDER INFORMATION

| Dimensions |    |    |     |      |    |  | Art. No.                   |
|------------|----|----|-----|------|----|--------------------------------------------------------------------------------------|----------------------------|
| a          | b  | c  | g   | i    | p  |                                                                                      |                            |
| [mm]       |    |    |     |      |    | [g]                                                                                  |                            |
| 8          | 25 | 65 | M12 | 12.5 | 27 | 95                                                                                   | <a href="#">23700.0712</a> |
| 12         | 30 | 78 | M16 | 14.0 | 33 | 194                                                                                  | <a href="#">23700.0716</a> |

APPLICATION EXAMPLE



## Compact Clamps

EH 23690.

3



### PRODUCT DESCRIPTION

The compact clamps are all purpose clamping elements. Due to the self-locking tension lever application can either take place in horizontal or vertical position in both, machined and raw workpieces.

Features:

- Exact and position precise clamping
- Easy, universal handling
- High clamping force at low tightening torques, abrasion-resistant due to tension lever with bearings
- Continuous, large clamping area
- Tension lever entirely retractable for hindrance-free exchange of workpieces
- Tension lever with locating thread for various clamping elements, e.g. ball-ended thrust screws (EH 22700. - EH 22720.), self-aligning pads (EH 22730. / EH 22740.) etc.
- Large adjusting range at constant clamping force
- Continuous increase of the clamping range by height adapters 23690.0112 / .0116
- Easy and flexible mounting options
- Corrosion-resistant
- Resistant to dirt and chips

### Material

#### Body

- Heat-treated steel, black coated

#### Tension lever

- Heat-treated steel, tempered, silver coated

### Assembly

Assembly and Set-Up:

1. Take out stop pin ISO 4762-M 6 x 10.
2. Move back and take out tension lever.
3. Tightening by 2 screws with internal hexagon (included in supply volume).

4. Place tension lever in sliding rail and then insert.
5. Tighten stop pin ISO 4762 - M 6 x 10.

### Operation

Clamping Process:

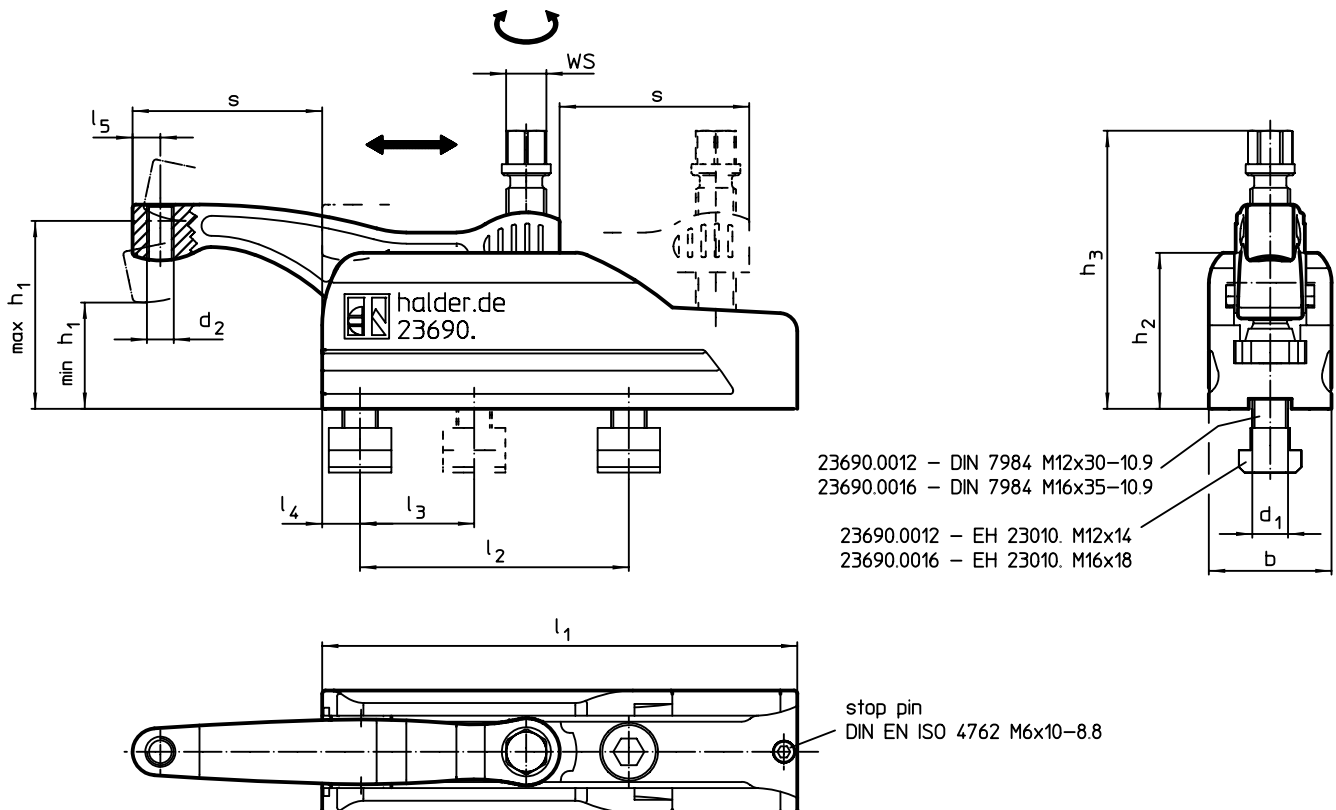
1. Slide tension lever to clamping position.
2. Clamping is made via a hexagon collar screw.
3. Releasing is done in reverse order.

### MORE INFORMATION

#### Further products

Height Adapters, for compact clamp . . → p. 560

### DRAWING



## Height Adapters • for compact clamp

EH 23690.



### PRODUCT DESCRIPTION

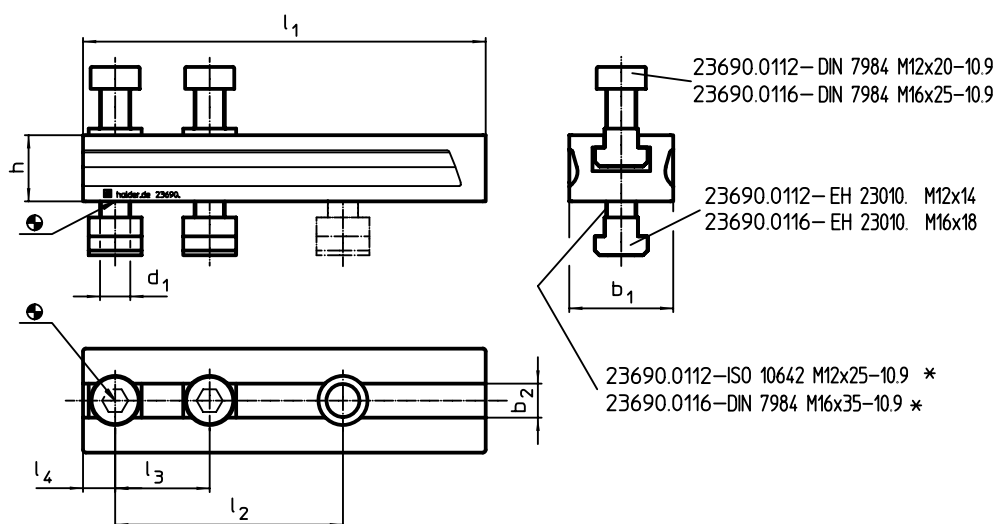
The height adapter for compact clamps allows a clamping height increase and has the following characteristics:

- Continuous covering of clamping height
- T-slot in the height adapter allows exact positioning by moving the compact clamp at specified grid spacings
- Height can be expanded user-defined

### Material

- Heat-treated steel, black coated

### DRAWING



\* When using more height adapters the screws ISO 10642 or DIN 7984 have to be replaced by screws extended by the dimension h.

### ORDER INFORMATION

| Dimensions |       |             |       |       |    |       |              |  | Art. No.   |
|------------|-------|-------------|-------|-------|----|-------|--------------|---------------------------------------------------------------------------------------|------------|
| $d_1$      | $l_1$ | $l_2$<br>+1 | $l_3$ | $l_4$ | h  | $b_1$ | $b_2$<br>H12 |                                                                                       |            |
| [mm]       |       |             |       |       |    |       |              | [g]                                                                                   |            |
| M12        | 134   | 70          | 50    | 13    | 20 | 45    | 14           | 874                                                                                   | 23690.0112 |
| M16        | 213   | 120         | 50    | 17    | 35 | 55    | 18           | 3000                                                                                  | 23690.0116 |

### APPLICATION EXAMPLE

