

**Note before filling out:** First save the form before filling out. To fill out and save, we recommend the latest Adobe Acrobat Reader, available at: <https://get.adobe.com/reader/>.

## Securing and holding inquiry

Our project:

Planned function of the clamping head in the machine / installation:

### 1. Force and load

\* Required fields

\*Load direction:

- Securing / holding in only one direction:  
 max.:  kN (static without safety factor)
- Compressive load on the mounting side (e.g. securing a cylinder against retracting)
- Tensile load on the mounting side (e.g. securing a cylinder against expanding)

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- Securing / holding in both directions:  
 Load direction 1:  
 max.:  kN (static without safety factor)
  - Load direction 2:  
 max.:  kN (static without safety factor)

### 2. Safety

\*Protective function:

(multiple selections possible)

- People are protected by the clamping head
- Machine parts / workpieces are protected by the clamping head
- The clamping is functional and necessary for operation of the machine (e.g. holding the position against a press force)

\*Safety factor:

- The holding force of the clamping head shall be a factor  higher than the maximum load to be secured / held
- not required
- as yet undefined

\*Clamping:

- Static clamping (the rod is always standing still when the clamp is activated)
- Dynamic clamping (occasional emergency braking)

While the clamp is being activated, the rod moves at a maximum speed of:

max.  m/s

**3. Function**

\* Required fields

Desired actuation by:

Hydraulics

System pressure in bar: min.:  bar available at all times

Fluid:  Hydraulic oil HLP 46  
 other:

Pneumatics

System pressure in bar: min.:  bar available at all times

Mode of actuation:

Electric actuation would be desirable

Purely mechanical actuation would be desirable (only possible in connection with a suspension element such as chain, rope, belt, ...)

\*Operating mode of the clamping head:

\*Clamp

definitely at pressure failure and at zero pressure

by pressure is allowed (only if it is not a safety function)

\*Release

with pressure

at zero pressure

\*Release operation

Must always be possible without movement of the rod whether a load is acting on the clamping head or not  
 (Attention! A lifted load might drop down as a consequence of releasing unless it is otherwise supported)

Releasing when a load is acting on the clamping head should not be possible: the release operation is connected by machine control with relieving the clamping head of the load (protection against unintended release)

Position:

The precise position must be held after clamping. Allowable tolerance when subject to the load given above:  mm

Admissible path of the rod when clamping

< 0,1 mm     < 2 mm     < 18 mm

Special version:

At the same time, a torque of max.  Nm must be held  
 (Clamping only at standstill, no braking of the rotational movement allowed)

**4. General specifications**

\* Required fields

\*Frequency of operation: Cycles per year:

Rod diameter:  undefined  
 fixed to  mm

Load direction:  horizontal  
 vertical

Layout: Add sketch as attachment if possible

Clamping head is:  stationary  
 moving

Size limits: Height / length:  
 max.  mm

Outer diameter / edge length:  
 max.  mm

Weight:  
 as small as possible  
 if possible less than  kg

Fixation of the clamping head:  The clamping head will not be mounted directly to a cylinder  
 The clamping head will be mounted directly to a cylinder  
 Type:

Rod during operation:  Rod must be able to leave the clamping head during operation  
 Note: lateral forces acting on the clamping head are not admissible and must be absorbed by suitable bearings

\*Environment:  
 (multiple selections possible)

- normal dry workshop at room ambient temperature
- humid
- outdoor application
- sea air
- aggressive environment (e.g. acidic vapours)
- considerable dirt / dust

\* Required fields

- extreme temperatures (< 0 °C and/or > 60 °C)
- machine tool wet
- machine tool dry
- food industry  
(use of steam jet cleaning, suds, or similar)
- clean room
- other (please specify)

## 5. Personal data

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\*Company

\*Name

Dept.

\*E-mail

Phone

Street / no.

Postal / zip code, city

Country

- Please call me
- Please e-mail me
- I acknowledge SITEMA's [privacy policy](#)

## 6. Potential need (optional)

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Price enquiry:

Please submit your best offer for:

- once  piece(s)
- per month  piece(s)
- per year  piece(s)

Desired delivery date:

Other remarks: