

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)

- 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
- machine tool wet
- machine tool dry
- food industry
(use of steam jet cleaning, suds, or similar)
- clean room
- other (please specify)

5. Personal data

*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)

Price enquiry:

Please submit your best offer for:

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

Desired delivery date:

Other remarks: