

## Securing and holding inquiry

Our project:

**How to fill in the questionnaire:** 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/>

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

| 1. Force and Load  |  | *Required fields |
|--|--|------------------|
| *Load direction  | Securing / holding in only one direction:<br>max.:            kN (static without safety factor)<br>Compressive load on the mounting side (e.g. securing a cylinder against retracting)<br>Tensile load on the mounting side (e.g. securing a cylinder against expanding) |                  |
|  | Securing / holding in both directions:<br>Load direction 1:<br>max.:            kN (static without safety factor)<br>Load direction 2:<br>max.:            kN (static without safety factor)   |                  |
| 2. Safety  |  | *Required fields |
| *Protective function<br>(Multiple selections are possible) | Clamping head protects people  |                  |
|  | Clamping head protects machine parts / workpieces  |                  |
|  | 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 should be by a factor of higher than the maximum load to be secured/held  |                  |
|  | not required   |                  |
|  | not yet defined  |                  |
| *Clamping  | Static clamping (the rod is not moving when the clamp is activated)  |                  |
|  | Clamping during movement (occasional emergency braking)<br>When the clamping starts, the rod is moving at a speed of:<br>m/s maximum.  |                  |

| 3. Function <span style="float: right;">*Required fields</span> |  |
|---|--|
| Actuation   | <p>Hydraulic pressure</p> <p>System pressure in bar: min.                      bar available at all times</p> <p>Fluid:</p> <p style="padding-left: 40px;">HLP 46 hydraulic oil</p> <p style="padding-left: 40px;">other:</p>  |
|   | <p>Pneumatic pressure</p> <p>System pressure in bar: min.                      bar available at all times</p>  |
|   | <p>Electric: purely electrical operation possible for loads of up to 2 metric tons.<br/>Please contact SITEMA.</p>   |
|   | <p>Purely mechanical actuation would be desirable<br/>(only possible in connection with a suspension element such as chain,<br/>rope, belt, ...)</p>   |
| Clamping on   | <p>Round rod (standard)</p> <p>Rail (e. g. T89/B)</p> <p>Steel wire rope</p>   |
| *Operating mode of the clamping head                            | <p>*Clamp</p> <p>definitely at pressure failure and at zero pressure</p> <p>by pressure is allowed (only if it is not a safety function)</p>   |
|   | <p>*Release</p> <p>with pressure</p> <p>at pressure failure and at zero pressure</p>   |
|   | <p>*Release operation</p> <p>Must always be possible without movement of the rod whether a load is acting on the clamping head or not<br/>(Attention! A lifted load might drop down as a consequence of releasing unless it is otherwise supported)</p> <p>Releasing when a load is acting on the clamping head should not be possible: the machine control automatically links the release operation with relieving the clamping head of the load = protection against accidental release</p> |
| Positioning   | <p>The position must be held precisely after clamping. Allowable tolerance when subject to the load given above:                      mm</p>   |
|   | <p>Admissible path of the rod when clamping:</p> <p>&lt; 0.1 mm      &lt; 2 mm      &lt; 18 mm</p>   |
| Special version for torque                                      | <p>At the same time, a torque of max.                      Nm must be held<br/>(Clamping only at standstill, no braking of the rotational movement allowed)</p>  |

| 4. General specifications                           |   | *Required fields |
|---|---|------------------|
| *Frequency of operation                             | Cycles per year:  |                  |
| Rod diameter  | undefined<br>defined with                      mm   |                  |
| Load direction                                      | horizontal<br>vertical  |                  |
| Layout of installation                              | Add sketch as attachment, if possible   |                  |
| Installation of clamping head                       | stationary<br>traveling with with the load  |                  |
| Size limits   | Height / length:                      max.                      mm<br>Outer diameter / edge lenth: max.                      mm<br>Weight:<br>as small as possible (traveling with the load)<br>If possible less than                      kg   |                  |
| Mounting of the clamping head                       | The clamping head will NOT be mounted directly to a cylinder<br>The clamping head will be mounted directly to a cylinder<br>Type:   |                  |
| Rod during operation:                               | Rod must be able to leave the clamping head during operation<br>Hint: lateral forces acting on the clamping head are not admissible and must be absorbed by suitable bearings   |                  |
| *Environment:<br>(multiple selections are possible) | normal dry workshop at room temperature<br>humid<br>outdoor application<br>sea air<br>aggressive environment, e.g. acidic vapors<br>considerable dirt / dust<br>Extreme temperatures (< 0 °C and/or > 60 °C)<br>machine tool wet<br>machine tool dry<br>food industry<br>usage of steam jet, detergent solutions or similar<br>clean room<br>other (please specify) |                  |

| 5. Personal data                      |  | * Required fields |
|---------------------------------------|--|-------------------|
| *Company                              |  |                   |
| *Name contact person                  |  |                   |
| Dept.                                 |  |                   |
| *E-mail                               |  |                   |
| Phone                                 |  |                   |
| Street/No.<br>Postal / Zip Code, City |  |                   |
| Country                               |  |                   |
| How to establish contact              | Please call Me<br>Please e-mail me   |                   |
| 6. Quantities required (optional)     |  |                   |
| Price inquiry                         | Please submit your best offer for:<br>once                      unit(s)<br>per month                unit(s)<br>per year                  unit(s) |                   |
| Desired delivery date                 |  |                   |
| Other remarks                         |  |                   |

Privacy Policy Declaration:

 I acknowledge the [Privacy Policy](#) of SITEMA.