

For special cases

There is nothing that SITEMA cannot do! From extremely small to large clamping heads for rods up to 300 millimeters in diameter. Whether in the open air, at below-zero temperatures, underwater, or in aggressive environments: Wherever rod clamping is in demand, we will find the right solution. What can we do for you?

A solution for any cylinder

We can supply the right clamping heads for any hydraulic and pneumatic cylinders commonly used on world markets. Talk to us!

Clamping and fixing without hydraulics and pneumatics

- Mechanical Safety Catcher KRM
- Electropneumatic Module EPM
- Electric Locking Unit



A strong brand for a unique technology

The proven self-intensifying clamping technology has made a name for itself around the world. This recognition allows us to ensure transparency on the market for clamping devices and linear brakes. SiForce Technology is not just about safety, but also relates to the principle of self-intensifying force.

Look out for this logo:



We are the specialists

SITEMA is the only company in the world specializing exclusively in the development and production of clamping devices and linear brakes on round rods. The consequence of that specialization: SITEMA is an internationally respected partner to machinery manufacturers. We specialize in securing, holding, locking, stabilizing, and emergency stopping loads in axial motion. It is a field in which we have been a leading brand name for many years, particularly with our SITEMA Clamping Heads. Alongside our broad product portfolio, we offer unique consulting and solution-delivering expertise to meet any challenge.

Our values reinforce trust

“Fulfilling the quality expectations of our customers is the top priority in all corporate processes.” That core tenet of our philosophy demonstrates: Quality is a fundamental principle to which we are committed.



SITEMA GmbH & Co. KG
Sicherheitstechnik und Maschinenbau

G.-Braun-Straße 13 Tel. +49 721 98661-0 info@sitema.de
76187 Karlsruhe, Germany Fax +49 721 98661-11 www.sitema.com





Safety Catchers

Series K, KR, KRP ...

- For medium-sized, large and very large loads
- DGUV approved
- One load direction



Safety Brakes

Series KSP

- For small to medium-sized loads
- DGUV approved
- One load direction



Safety Locks

Series KRG, KRGP

- For static or slow-moving masses
- Compact design
- One load direction



Locking Units

Series KFH, KFP, KB ...

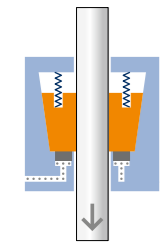
- Extensive standard range with numerous series for special applications, including outdoor, cylinders, machine tools
- DGUV and Lloyd's approved series available
- Both load directions



PowerStroke

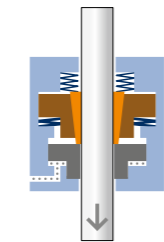
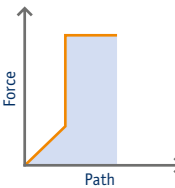
Series FSK, FSKP

- Clamping head with additional integrated short stroke function
- Ideal for pressing, stamping, joining, riveting, clinching, forming, embossing, closing molds, etc.



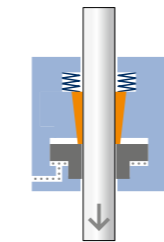
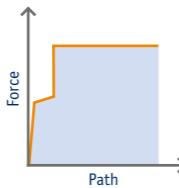
Properties

- SiForce Technology
- For loads from 10 kN to 1300 kN
- Safety factor built-in
- Very high B_{100} value
- Hydraulic or pneumatic control
- Overload-protected
- Protection against unintentional release
- Flexible actuation possible



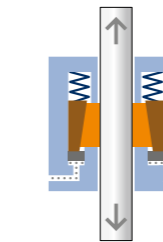
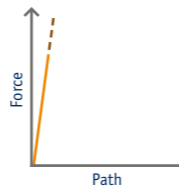
Properties

- SiForce Technology
- For loads from 2 kN to 30 kN
- Safety factor built-in
- Very high B_{100} value
- Pneumatic control
- Overload-protected
- Flexible actuation possible



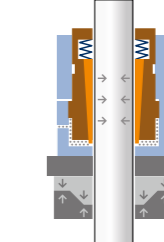
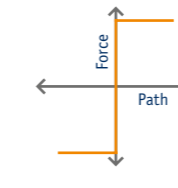
Properties

- SiForce Technology
- Very short tapering distance
- For static loads from 2 kN to 500 kN
- Hydraulic or pneumatic control
- Flexible actuation possible



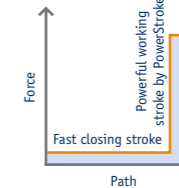
Properties

- Clamping by spring force
- Holding forces from 1 kN to 1500 kN
- Hydraulic or pneumatic control
- Clamping in both load directions with no axial play
- Flexible actuation possible
- Overload-protected
- Release possible in all operating states without moving the rod



Properties

- Hydraulic PowerStroke FSK
 - SiForce Technology
 - Working forces up to 180 metric tons with one unit
 - Rod diameters up to 200 mm
- Pneumatic PowerStroke FSKP
 - SiForce Technology
 - Working forces up to 3 metric tons with one unit (pneumatic only)



Applications

- Hydraulic presses
- Mechanical presses
- Injection-molding machinery (protection for closing stroke)
- Mould carriers
- Broaching machines
- Hydraulic freight elevators
- Chairlift drives

Hydraulic press
Safety Catcher as DGUV-approved restraint device



Applications

- Loading gantries
- Lifting equipment
- Vertical servo drives
- Linear axes
- Palletizers
- Component lifts
- Packaging machinery

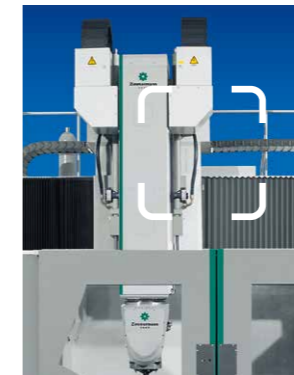
Grinding machine
Securing the Z-axis in case of emergency stop and for maintenance



Applications

- Scissor-type lifting panels
- Mobile elevated work platforms
- Theater lifting podiums
- Vehicle supports
- Tool trays

Elevating podium in the theater
Stepless holding of the podium position



Applications

- Machine tools
- Assembly lines
- Rolling mill stands
- Test rigs
- Steel hydraulics
- Steelworks
- Shipbuilding and offshore

Machine tool
Securing the Z-axis with linear drive



Applications

- Internal high-pressure presses
- Injection molding machines (for holding closed)
- Mold presses
- Vacuum presses
- Welding presses
- Test rigs
- Leak testing

Hydraulic internal high-pressure press
Generating 400 metric tons closing force