



Eberspächer high-pressure hydraulics

Post-tensioning systems



**for 0.5" and 0.6" strands
for all commonly available systems**

Systems:

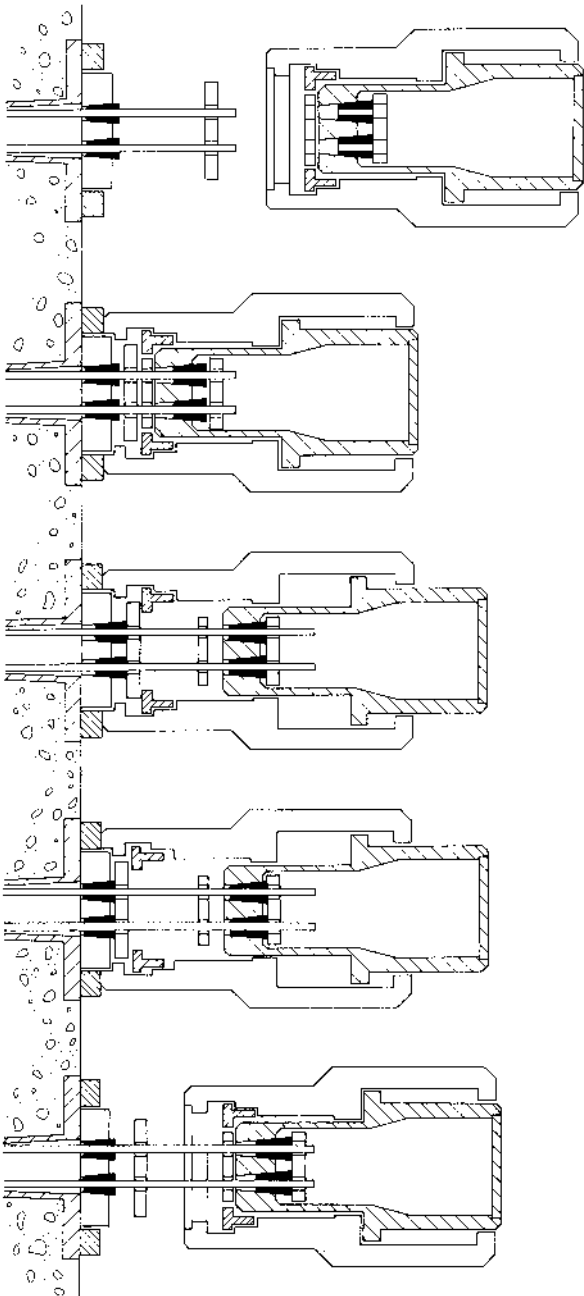
Eberspächer supplies strand tensioners and strand tensioning and wedging systems in all possible technical designs for 0.5" and 0.6" strands – these systems include both monotensioning presses for individual strands and multitensioning presses for tensioning several strands simultaneously.

The systems represented in this brochure have been originated for, and in co-operation with, individual customers. Strand tensioners are available for tensioning strands to 65x0.5" and 55x0.6". We will be pleased to inform you on the dimensions of the devices on request.

Further special design features to customer's specification are possible.



Advantage: Very compact, automatic tensioning head.
Disadvantage: More complex and more expensive system.



System 1:

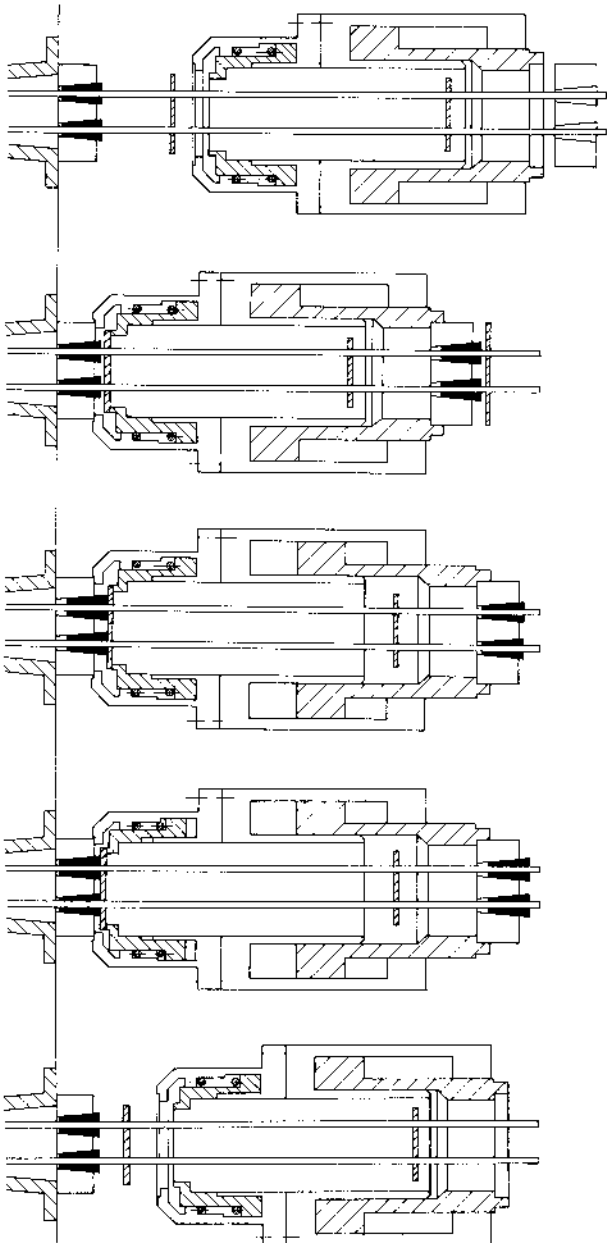
Tensioning: Tensioning anchorage fixture at front, integrated in the tensioning jack.

Wedging: Done hydraulically.

1. Set anchor head with anchor wedges on structure. Slide the temporary supporting plate, the wedging plate and the tensioning jack (with tensioning wedges open) onto the stands.
2. The system will be immediately ready for tensioning. As soon as the tensioning operation is started, the tensioning wedges will grasp the strands automatically.
3. Tension the strands to the specified tensioning force. In so doing, the motion of the anchor wedges on the structure will be limited by the wedging plate.
4. Hydraulic locking of the anchor wedges at defined wedging force. Retract the pistons of the tensioning press and let off wedging pressure.
5. Remove the individual parts of the tensioners in reverse sequence .



Advantage: Universal, clearly defined system.
Disadvantage: Longer strands, more erection work.



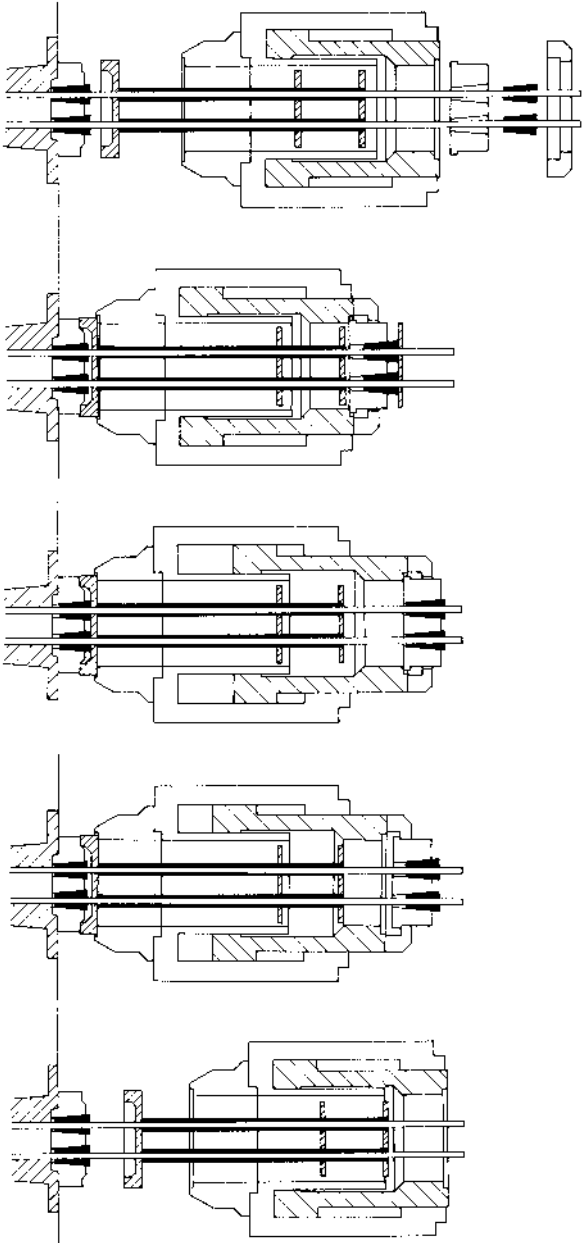
System 2:

Tensioning: Tensioning anchorage fixture at rear, at the piston end of the tensioning press.

Wedging: Done hydraulically.

1. Set anchor head with anchor wedges on structure. Slide the wedging plate, the strand guide and the tensioning jack onto the strands.
2. Mount the tensioning anchor, the holdback plate and the tensioning wedges on the tensioning jack. Pressing the tensioning wedges with the wedge pressing plate.
3. Tension the strands to the specified tensioning force. In so doing, the motion of the anchorage wedges on the structure will be limited by the wedging plate.
4. Hydraulic locking of the anchorage wedges at defined wedging force. Retract the pistons of the tensioning press and let off wedging pressure.
5. Remove the individual parts of the tensioners in reverse sequence.

Advantage: Simple and cost-advantageous system.
Disadvantage: Longer strands, more erection work.



System 3:

Tensioning: Tensioning anchorage fixture at rear, at the piston end of the tensioning press.

Wedging: By pulling in the strands on load removal.

1. Set anchor head with anchorage wedges on structure. Slide the supporting plate with guide tube and the tensioning jack onto the strands.
2. Mount the tensioning anchorage, the holdback plate and the tensioning wedge on the tensioning jack. Press the tensioning wedge with the wedge pressing plate.
3. Tension the strands to the specified tensioning force. In so doing, the motion of the anchorage wedges on the structure will be limited by the wedging plate.
4. The strands will anchor in the anchorage bush uniformly as the tensioning pressure is lowered. Retract the pistons of the tensioning press.
5. Remove the individual parts of the tensioners in reverse sequence.



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