

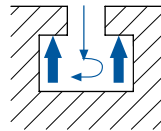
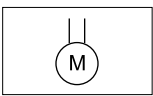
# Electromechanical Slide Lock System

## OSV II

### Application area

- For medium and larger presses
- For locking the slide during works in the die room or on the press
- For mechanical and hydraulic presses
- Requires contour plates which are externally welded to the slide or recesses in the surface
- Stationary installation on the press crown

### Mode of operation

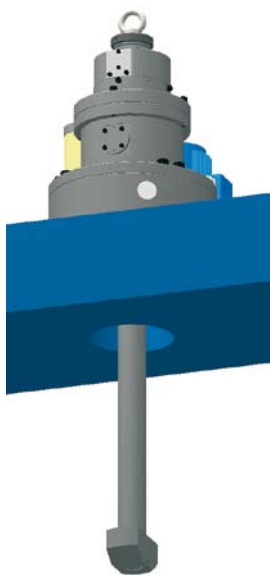


- An electric motor with gearbox produces the axial movement.
- The tie rod head performs a 90° rotation at the beginning of the locking procedure and towards the end of the unlocking procedure.
- The press slide may be locked in any position
- The slide lock system supports the mass of the slide and its attached parts.

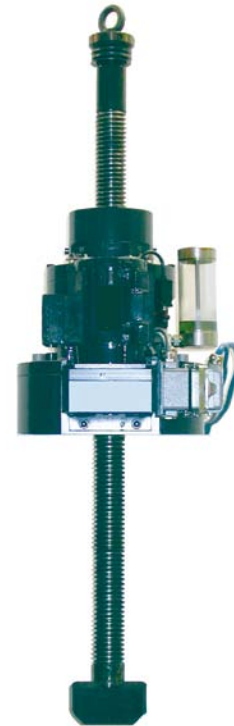
### Description

An electric motor operating via a gearbox causes a spindle nut to rotate. Through this the spindle is moved up and down. The tie rod, which is completely extended in its park position, first performs a 90° rotation and then moves directly to the slide respectively the contour plate. The mass of the slide and its attached parts is secured against lowering. A hydraulic cushion guarantees unlocking of the tie rod even under load (within the possible release stroke). Sticking of the tie rod is impossible.

Unlocking of the slide is effected by reversing this sequence.



Fixing is achieved with four socket head cap screws (DIN 912) M16 x 200, strength class 8.8 (not included).



### Advantages

- Locking the slide in any position
- Unlocking the slide even under load is possible
- All important functions electrically monitored
- Compact dimensions
- One-motor operation
- Approval as per safety category 4 on request

### Accessories

- Plug connectors

### Technical Data

Type	OSV II 500
Max. loading force [kN] <sup>1)</sup>	500
Locking speed [mm/s]	85
Motor: Type	three-phase motor
Supply voltage	400 V, 50 HZ, S3-ED 15%
Motor power [kW]	0,55
Limit switches: Number / Type	<ul style="list-style-type: none"> <li>• Two inductive proximity switches</li> <li>• One mechanical limit switch</li> </ul>
Switch voltage	<ul style="list-style-type: none"> <li>• 10-30V DC (inductive proximity switch)</li> <li>• 250V AC, 230V DC (mechanical limit switch)</li> </ul>
Connection type	<ul style="list-style-type: none"> <li>• inductive: - PNP normally open</li> <li>• mechanical: - one forced normally closed as per VDE 0113</li> <li>- one normally open</li> </ul>
Designation	<ul style="list-style-type: none"> <li>• Tie rod extended (Slide free) S1 (induc.)</li> <li>• Tie rod turned to end position S2 (induc.)</li> <li>• Slide secured S3 (mech.)</li> </ul>
Plug connectors	Han® 25 D / Han® 3 HvE
Max. operating temperature [°C]	70
Weight [kg] ca.	220

1) Mechanical damage may occur at higher load.

# Electromechanical Slide Lock System

## OSV II

**Example order**

**OSV II 500 (-S) - 750**

Type \_\_\_\_\_

Telescopic spring cover (optional) \_\_\_\_\_

Dimension X \_\_\_\_\_

1) Please state dimension X when ordering.  
 2) Dimension K applies up to X = 920mm.  
 For other lengths, please enquire separately.  
 (without telescopic spring cover K = 0)

(Custom designs available on request)

Type	A	B	C	D	E	F	G	Ø H	K <sup>2)</sup>	M	Ø N	P	Q
OSV II 500	431	139	315	109	47	70	Tr60x9	90	75	M16	145	68	70