

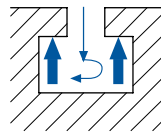
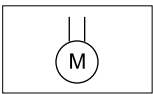
Electromechanical Slide Lock System

OSV

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 suspended under 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. Thereby, the mass of the slide and its attached parts are 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 the sequence.

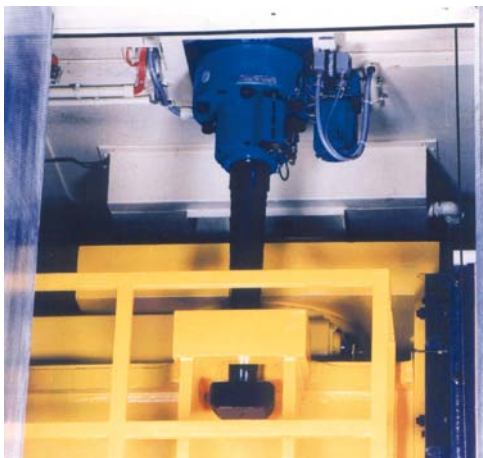


Advantages

- Locking the tie rod in any position
- Unlocking the tie rod 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



Fixing is achieved by socket head cap screws (DIN 912):
 OSV 300: 4xM20x180, strength class 12.9
 OSV 500: 4xM30x200, strength class 10.9
 OSV 800: 6xM36x210, strength class 8.8
 OSV 1200: 6xM36x210, strength class 12.9
 (not included).

Technical Data

Type	OSV 300	OSV 500	OSV 800	OSV 1200
Max. loading force [kN] ¹⁾	300	500	800	1200
Locking speed [mm/s]	80	85	80	80
Motor: Type	three-phase motor			
Supply voltage	400 V, 50 HZ, S3-ED 15%			
Motor power [kW]	0,55	0,75	1,5	
Limit switches: Number / Type	<ul style="list-style-type: none"> • Two inductive proximity switches • One mechanical limit switch 			
Switch voltage	<ul style="list-style-type: none"> • 10-30V DC (inductive proximity switch) • 250V AC, 230V DC (mechanical limit switch) 			
Connection type	<ul style="list-style-type: none"> • inductive: - PNP normally open • mechanical: - one forced normally closed as per VDE 0113 - one normally open 			
Designation	<ul style="list-style-type: none"> • Tie rod extended (slide free) S1 (induc.) • Tie rod turned to end position S2 (induc.) • Slide secured S3 (mech.) 			
Plug connectors	Han® 25 D / Han® 3 HvE			
Max. operating temperature [°C]	70			
Weight [kg] ca.	140	200	280	300

1) Mechanical damage may occur at higher load.

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Example order

OSV 800 (-S) - 950

Type _____

Telescopic spring cover (optional) _____

Dimension X _____

(Custom designs available on request)

X (OSV 800/1200)

X (OSV 300/500)

¹⁾ Please state dimension X when ordering.

²⁾ Dimension K applies up to X = 1350mm. For other lengths, please enquire separately. (without telescopic spring cover K = 0)

Type	A	B	C	D	E	F	G	ØH	ØJ	K ²⁾	L	M	ØN	P	Q	ØR	ØT	Z
OSV 300	325	140	301	95	48	60	Tr44x7	75	22	75	151	M10	130	50	65	300	260	330
OSV 500	340	145	332	109	47	70	Tr60x9	90	33	75	187	M16	145	68	70	360	310	349
OSV 800	380	155	370	124	52	90	Tr80x10	110	39	100	217	M20	220	90	120	420	360	379
OSV 1200	380	155	370	124	52	90	Tr80x10	110	39	100	217	M20	220	90	120	420	360	379