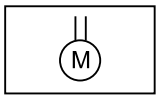
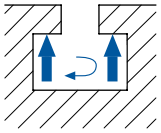
Electromechanical Turn Clamp Unit
ED

Application area

- For medium and larger presses
- For clamping upper dies
- For dies or adapter plate with identical dimensions or U-recesses
- Stationary installation on the slide edge

Mode of operation





- An electric motor with gear drive provides the clamping force.
- During the clamping and unclamping movement the tie rod is turned through 90°.

Description

By means of a gear drive an electric motor causes a spindle to rotate. Through this a nut and the tie rod connected to it move up and down.

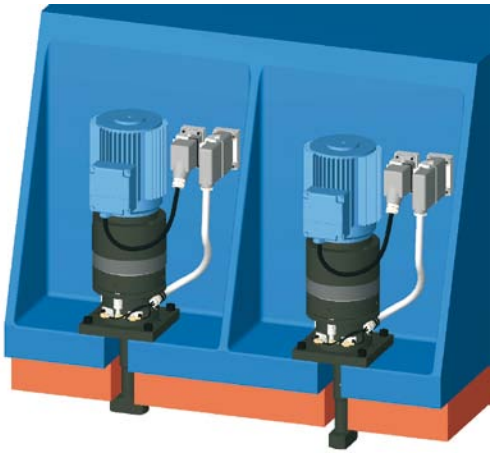
The rotation movement of the tie rod is effected by a friction element. Energy is only required during the processes of clamping and unclamping. The clamp unit is mechanically self-locking. The clamping force is continuously monitored.

Advantages

- Mechanically self-locking
- Electric monitoring of all functions
- Fully automated operation
- Large clamping dimension tolerance
- Continuous clamping force monitoring

Accessories

- Limit switches / cables
- Plug connectors



Technical Data

Type		ED 60	ED 120	ED 240
Clamping force [kN]		60	120	240
Max. loading force [kN] 1)		100	200	400
Clamping dimension tolerance [mm]		+/- 7		
Stroke [mm]		18		
Clamping speed [mm/s]		3		
Motor: Type Supply voltage		three-phase 400 V 50 HZ		
Limit switches:	Number / Type Supply voltage Connection type Designation	• Three inductive proximity switches • PNP normally open; 10-30V DC • Plug-in type (M8x1) • Tie rod in clamping position S5 • Continuous clamping force monitoring S6 • Tie rod in unclamping position S7		
Max. operating temperature [°C]		70		
Weight [Kg]		33	36	45

1) Mechanical damage may occur at higher loads.
Fixing is achieved with four screws M12, DIN 912 strength class 8.8 (not included).

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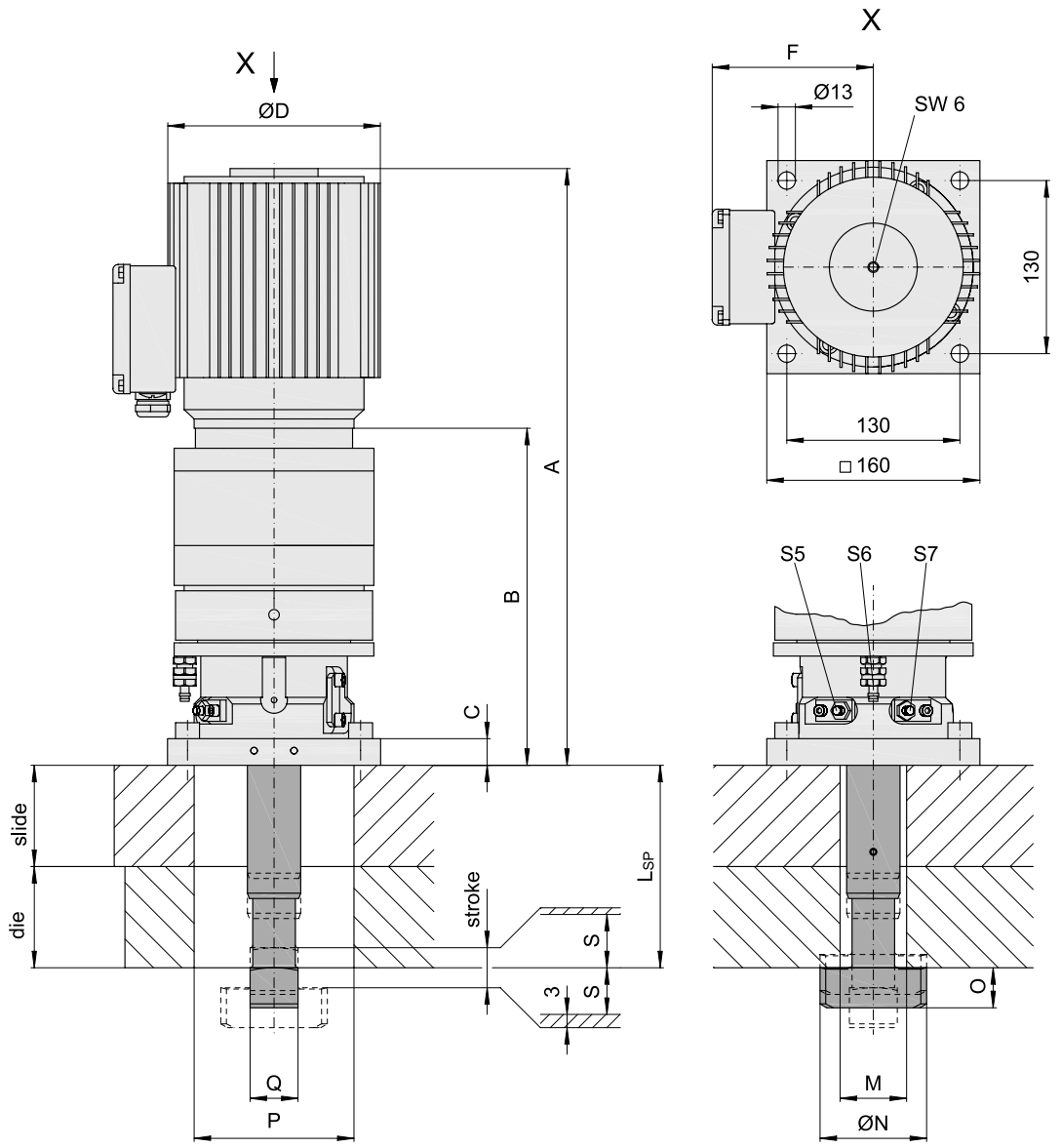

(Custom designs available on request)

L_{SP} = Nominal clamping dimension [mm]

Type	stroke	S	A	B	C	Ø D	F	M min.	M max.	Ø N	O	P min.	Q	L_{SP} min.
ED 60	18	7	433	253	20	150	102	45	50	80	30	90	36	105
ED 120	18	7	448	253	20	160	123	50	60	98	45	120	42	105
ED 240	18	7	530	297	20	160	123	65	70	120	60	160	62	130

Example order

ED 120 - 150

Type

L_{SP}