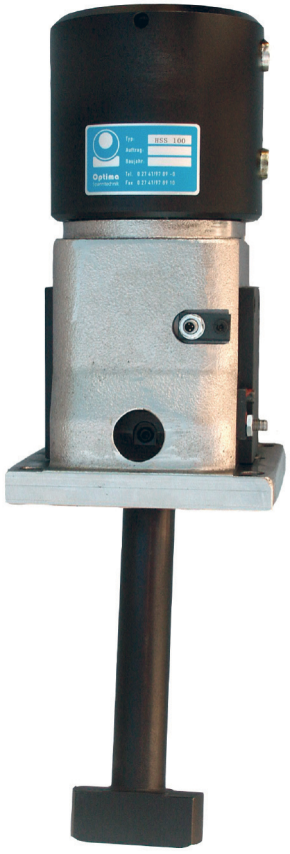
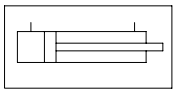
Hydraulic Swing Clamp Unit
HSS

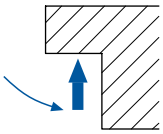


Application area

- For medium and large presses
- For clamping upper dies
- For dies or adapter plates with identical measurements and U-recesses
- Fixed installation on the edge of the slide

Mode of operation





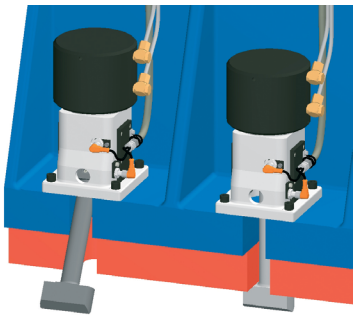
- A double-acting hydraulic cylinder provides the clamping force.
- The swinging movement is effected with mechanical guidance.

Description

The hydraulically driven clamping cylinder of the clamp unit generates the required clamping force directly. In order to secure the clamping force, hydraulic pressure must be maintained (e.g. with pilot-controlled check valves). Pressure sensing by the pressure switch on the hydraulic power pack is required. When unclamping, the tie rod is unloaded and then swings back into its park position due to restricted guidance.

Accessories

- Pilot-controlled check valves
- Flow control valves
- Fittings
- Hydraulic hoses / Hydraulic accessories
- Hydraulic power packs
- Limit switches / cable



Advantages

- Fully automatic operation
- Large clamping dimension tolerance
- Continuous clamping force monitoring by pressure sensing
- Minimal installation investment
- Pratically maintenance free
- Simple functional monitoring by proximity switches
- Low operating pressure

Technical data

Type	HSS 100	HSS 200
Clamping force [kN] / at operating pressure [bar]	100 / 200	200 / 200
Max. loading force [kN] 1)	125	250
Max. operating force [bar]	200	
Clamping dimension tolerance [mm]	+/- 7	
Stroke [mm]	18	
Oil volume: Clamp / unclamp [cm³]	209 / 255	407 / 452
Limit switch: Number / type	• two inductive proximity switches	
Supply voltage	• 10-30 V DC	
Connection type	• Plug-in type (M8 x 1)	
Designation	• tie rod swung in	S4
	• tie rod unclamped and swung out	S5
Max. operating temperature [°C]	70	
Swing angle [°] 2)	10; 15; 20; 25; 30	
Weight [kg]	27	32

1) Mechanical damage may occur at higher loads.
2) Please enter required value in order code.

Fixing is achieved with four screws, M12 DIN EN ISO 4762 , strength class 8.8 (not supplied).

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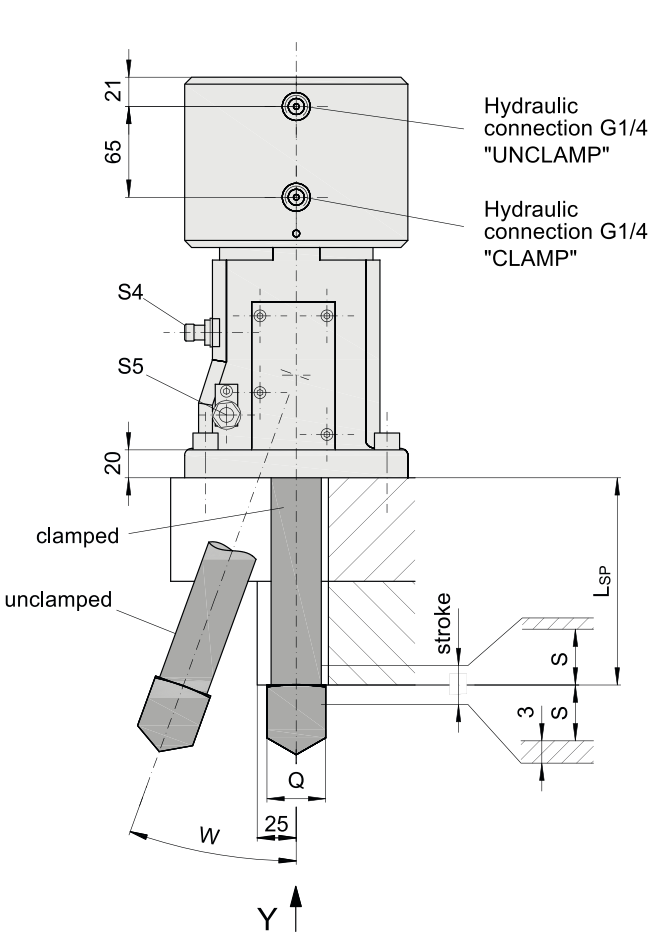

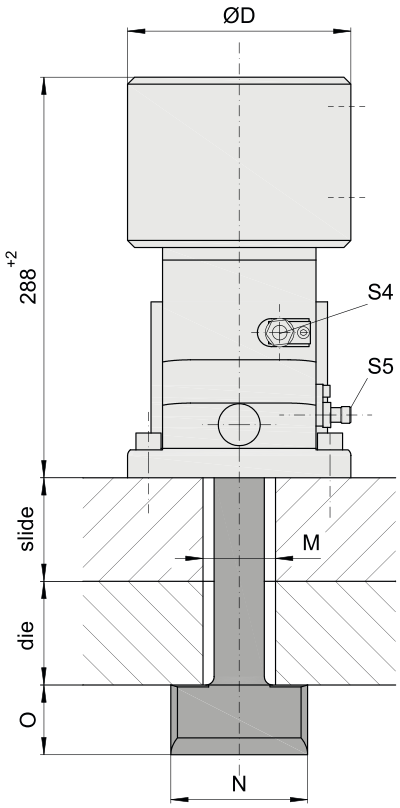

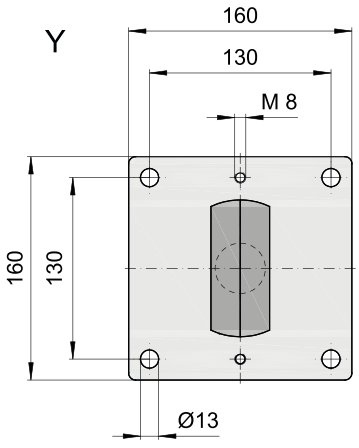

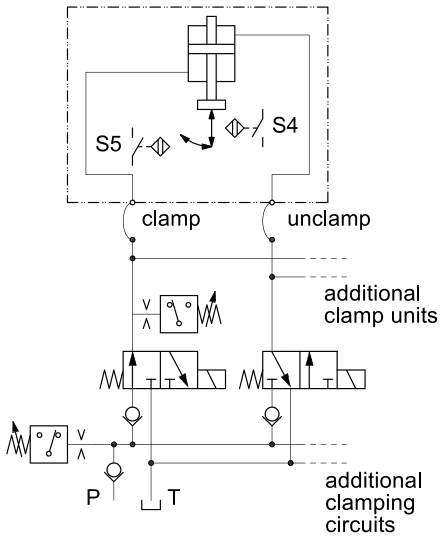

L_{SP} = Nominal clamping dimension [mm]

(Custom designs available on request)

Example order

HSS 100 - 25 - 150

Type
W (swing angle)
L_{SP}

Type	stroke	S	Ø D	M		N	O	Q	W
				min.	max.				in 5°-steps
HSS 100	18	7	130	45	50	80	30	36	10-30
HSS 200	18	7	160	50	60	98	50	42	10-30