



(S5)



the clamping process (optional equipment with non-return valves and pressure switches recommended).

Electrical control of the following functions (switches):

- Tie rod released and swung outward
- Pressure control by means of pressure switch on the hydraulic unit is advisable.

Technical data

Switch: 1 inductive proximity switch

p-n-p normally open contact

Supply voltage: 10-30 V DC Cable length: ca. 3 m

Max operating temperature: 70°C

Advantages

- Fully automatic, and also purely hydraulic operation
- Large clamping thickness tolerance
- Compact dimensions
- High safety standard due to electrical monitoring
- Central control
- Superior corrosion protection
- Continuous pressure control possible

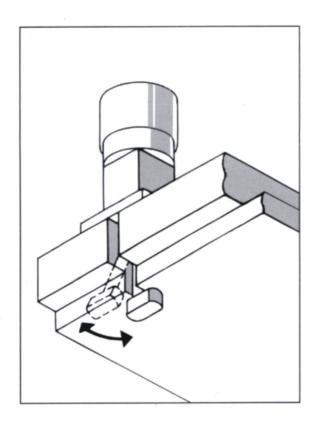
Construction

The clamp unit has a nickel-plated swing housing and a forged and gunmetal-finish tie rod.

The swing angle of the tie rod can be adjusted between 10° and 30°, in 5° increments as required by the customer.

To fix the clamp unit to the machine, please use four M12 bolts of strength class 8.8 according to DIN 912 (not included).

1.800



Area of application

Hydraulic swing-clamp units are designed for mediumsized and large presses exerting a force of about 500 tons upwards. Basically, they are suitable only for top die clamping.

Rigidly mounted on the press ram ledge, they require dies that have clamping edges with U-cut outs.

Mode of operation

The tie rod is swung into the clamping position via a mechanical register slot. After this swing movement (standard swing angle 20°), a double acting hydraulic cylinder transmits its clamping force, via the tie rod, to the die.

In the release process, the tie rod is released by an axial movement, and then swings back into the release position.

Movement sequence for applying the clamping force:

- · Retraction of the tie rod
- Clamping stroke of the tie rod

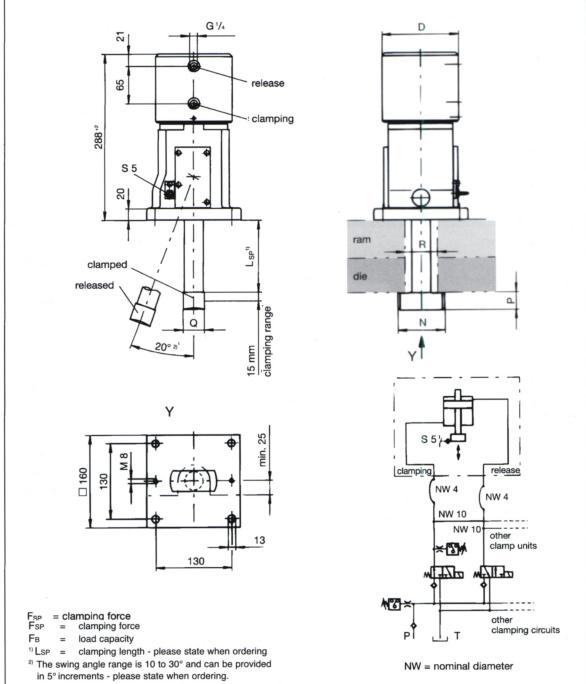
Distinguishing features

The hydraulically operated clamping cylinder directly produces the necessary clamping force. In so doing, the hydraulic pressure must be maintained throughout





Hydro-Mechanical Swing-Clamp Unit



reserves II	Туре	F _{SP}	at p	P _{max.}	F _B	D	N	Р	Q	min.	R max	Weight [kg]
inpan)	HSS 100	100	190	250	130	130	80	30	36	45	50	
8	HSS 200	200	195	250	250	160	98	50	42	50	60	