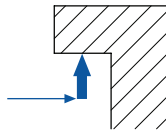
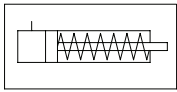


Flexible Clamp System EVK with HEE

Application area

- For medium and large presses
- For various die dimensions
- For clamping upper dies
- For dies with straight clamping edge
- Suitable for retrofitting

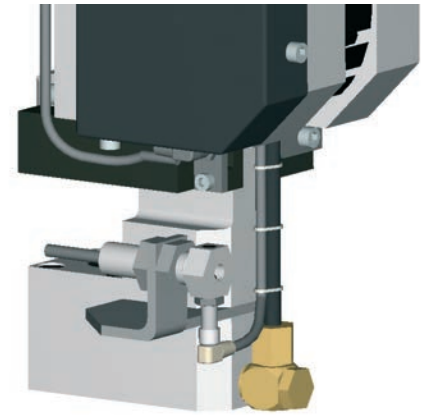
Mode of operation



- The electric positioning unit moves the T-slot clamp along the T-slot.
- A single-acting hydraulic cylinder generates the clamping force.
- Unclamping of the hydraulic cylinder is effected by spring load with the operating pressure switched off.

Description

The electric positioning unit moves the hydraulic T-slot clamp by means of a chain. Hydraulic pressure is applied to the T-slot clamp to generate the clamping force. The hydraulic pressure must be maintained to secure the clamping force (e.g. with pilot-controlled check valves). Therefore, pressure control by means of a pressure switch on the hydraulic power pack is necessary. The electric positioning units may be switched off individually by the machine control so that these clamp units remain in their park position.



Advantages

- Clamping of different die sizes
- Large clamping dimension tolerance
- Short clamping time
- Displacement path up to 1000 mm available
- All important functions electrically monitored
- High automation level
- Central operation

Accessories

- Pilot-controlled check valves
- Fittings
- Hydraulic hoses / hydraulic accessories
- Hydraulic power packs
- Limit switches / cable
- Plug connectors



Fixing is achieved with four hexagon headscrews with flange (DIN 6921) M10x30, strength class 8.8 (not included).

1) Mechanical damage may occur at higher load.

Technical Data

Positioning Unit	EVK	
Motor: Type	DC	alternatively three-phase
Supply voltage	24V DC	400V 50 HZ
Motor power [W]	8	90
Positioning speed [mm/s]	150	145
Limit switches: Type	<ul style="list-style-type: none"> • Inductive proximity switches • PNP normally open; 10-30V DC • Clamp unit in park position S1 • Clamp unit at the die S2 • End of displacement path (optional) S3 	
Switch voltage		
Designation		
Plug connector	Han* 25 D Han* 6E additionally for three-phase drive)	
Clamp Unit	HEE 63	HEE 85
Clamping force [kN] / at operating pressure [bar]	63 / 400	85 / 400
Max. loading force [kN] ¹⁾	80	100
Max. operating pressure [bar]	400	
Clamping dimension tolerance [mm]	+/- 4	
Stroke [mm]	12	
Oil volume: Clamp [cm ³]	19	25,5
Max. operating temperature [°C]	70	
Weight [kg]	16	19

Flexible Clamp System

EVK with HEE

Technical drawing of the EVK with HEE clamp system, showing side and front views with dimensions and labels.

Labels and dimensions in the drawing include:

- Housings are not included
- L=500
- 12
- Hydraulic connection "CLAMP" G1/4
- Plug connector 6-poles, male
- 24V DC
- 400V 50Hz
- Plug connector 25-poles, male
- max. 212
- max. 90
- 80
- 55
- 70
- stroke
- 3
- 4
- 4
- D
- L_{SP}
- C
- S1
- B
- H
- E
- F
- Y_s
- Z
- X_s
- H/2+300

Front view dimensions and labels:

- 200
- 4x Ø0,1
- M10 - 20 deep
- T-slot DIN 650
- M
- N
- O
- 50
- 10

Electrical schematic diagram showing:

- Motor (M)
- Slide
- Clamp
- Limit switches S1 and S2
- Additional clamp units
- Additional clamping circuits (P, R)
- Voltage sources V_Δ

T-Slot	M	N	O	Y _s
28	28	44	18	62,5
32	32	50	20	64,5
36	36	54	22	66,5

Example order EVK - 400V 50 Hz - 700 - S5 - HEE 85 - 28 - 75

Positioning unit _____

Supply voltage _____

Displacement path (H) _____

Limit switch (optional) _____

Clamp unit _____

T-slot _____

Clamping dimension L_{SP} _____

Type	B	D	E	F	X _s	Z	G	H
HEE 63	60	67	27,5	55,5	79,5	191	55	70
HEE 85	65	67	30	60,5	99,5	211	65	80

(Custom designs available on request)