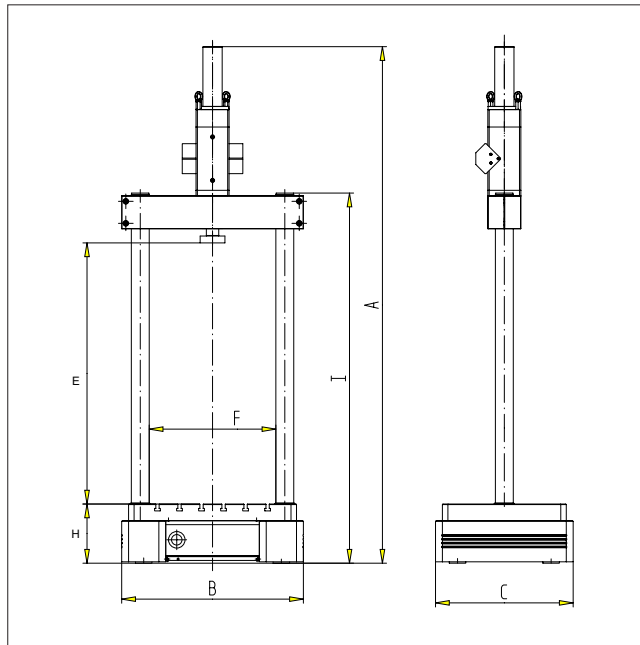


## Product Information

### Servo-Hydraulic Load Frame - HC Series



### Applications

Single actuator loading frame for testing materials and components.

### Advantages

- Wide range of options and flexibility in design to meet specific needs.
- Ease of access by using only two columns.
- Space available for supplementary temperature chamber due to suitable testing area width.
- Ergonomical operation of the machine by front panel controls.
- Accuracy and repeatability due to precision engineering and high stiffness
- Customized or special tooling on request.
- Adjustable crosshead, operated hydraulically or manually.
- Load frame is designed for placing on a table or on a special mounting table.
- The standard hard-chrome-plated T-slot table allows tests in different application areas, e.g. biomedical, foodstuff or corrosive materials such as saline baths.

### Features and Benefits

- Alignment is maintained over the height of the frame by using precision machined columns.
- High self resonance by using high stiffness crossheads.
- Accurate displacement measurement by using high stiffness crossheads and LVDTs.
- Flexibility. The top mounted actuator provides for easy mounting and assembly of components and non-regular test pieces. Different capacity actuators can be accommodated into the frame.
- Versatility. Testing from only a few Hz to 100 Hz and with high velocities.
- Safety. Frames are CE compliant when fitted with a safety shield.
- Various options for frames. Many options are available, e.g. vibration isolation, extended heights or mounting tables.

## Product Information

### Servo-Hydraulic Load Frame - HC Series

	Maximale force, dynamical (kN)	Manual lifting	Hydraulic lifting
Load frame	25	BPS-FC0025.00.xx System pressure 210 bar	BPS-FC0025.10.xx System pressure 280 bar
Polymer bearing actuator	5 10 25	BPS-FD0005.21.xx BPS-FD0010.21.xx BPS-FD0025.21.xx	BPS-FD0005.28.xx BPS-FD0010.28.xx BPS-FD0025.28.xx
<b>Options</b>			
Anti-vibration feet set		BPS-FC0025.80.xx	
Mounting table		BPS-FC0025.80.02	
Anti-rotation devices		BPS-FC0025.80.01	

### Actuator options

- Linear or rotary actuators or combined linear/rotary drives.
- Frames can be used with actuators of different capacities.
- Anti-rotation devices.
- Standard actuator stroke length 100 mm or 250 mm; other lengths on request.
- Supplied as standard with plain bearing actuators - optionally hydrostatic bearings are available.
- System pressure 210 bar or 280 bar.
- For servo valve combinations (e.g. twin servo manifolds and/or high flow valves) please discuss with Zwick engineers to calculate system performance. System supplied as standard with single servo valve.

### Dimensions of standard frames

			FB0050
A	Overall Height	[mm]	1700 + 2x actuator stroke
B	Machine Width	[mm]	660
C	Machine Depth	[mm]	500
E	Adjustable vertical test space	[mm]	100...800
F	Horizontal test space	[mm]	460
H	Upper edge of T-slot table	[mm]	215
I	Height to top of column	[mm]	1345
P	Hydraulic pressure input		G ¾"
R	Hydraulic return output		G ¾"
D	Hydraulic drain connection		G ¼"
	Alignment eccentricity		
	0 ... 350 mm	[mm]	0.05
	above 350 mm	[mm/m]	+ 0.1
	Parallelism per 100 mm	[mm]	0.03
	Stiffness at 1000 mm crosshead separation	[kN/mm]	300
	Net weight	[kg]	400