

Servo-hydraulic Compression Testing Machine | HCT Type A

Capacity

600kN, 1000kN, 2000kN, 3000kN

Functions

This series of compression testing machine is widely used for compression strength determination of cement, concrete and rock. Equipped with optional fixtures and measurement devices, it can be used for concrete splitting tensile test and flexure test.

Standards

CS1, ASTM C39, AASHTO T22, GB/T 50081(Part 6)



Load frame

1. Compression space is adjusted by spacing block
2. Ergonomically designed load frames ensure safety, reduce operator fatigue, and provide the highest level of flexibility.
3. "Quick Return" hydraulic valve for higher throughput
4. Automatic limit checking for overload, over temperature, over voltage, etc.
5. The system can return automatically, the oil cylinder can return the original position via manual or automatically after finishing testing
6. Imported encoder mounted on the seat is for position measurement of piston with high accuracy
7. Imported servo valve provides high stability and reliability



Spacing block

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Load cell

- Built-in load cell is assembled inside the piston for direct measurement with high accuracy
- High precise load cell measures and captures sensitively tension and compression force, high accuracy load measurement resolution reaches 1/500000 with no steps.
- American brand load cell ensures high precision and repeatability.

Specifications

Model	HCT605	HCT106	HCT206	HCT306
Type	A			
Capacity (kN)	600	1000	2000	3000
Calibration accuracy	Class 1			
Force accuracy	±1%			
Force range	1% ~ 100%FS			
Force resolution	1/500000FS			
Frame structure	One-body casting			
Column spacing (mm)	460	460	460	540
Maximum compression space (mm)	320	320	320	320
Platen adjustment	Spacing block			
Compression platens (mm)	Φ300	Φ300	Φ300	Φ300
Actuator (piston) stroke (mm)	140	140	140	140
Actuator (piston) maximum up speed (mm/min)	100	100	90	60
Actuator (piston) maximum down speed (mm/min)	280	280	230	160
Force loading speed (kN/s)	0.02%~2%FS/s			
Frame dimension (LxWxH) (mm)	600×410×1350	600×410×1350		700×530×1505
Power supply	3-phase 380VAC±10%			
Power consumption (kw)	4	4		5
Hydraulic Power Unit dimension (LxWxH) (mm)	500x880x930			
Oil tank volume (L)	50	50	70	80
Total weight (kg)	2000	2000	2000	2500



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