

**Capacity:**

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, flexure

**Standards:**

ASTM C39, GB/T 50081(Part 6)

**Features:****Load frame**

1. One-body casting frame with high stiffness
2. Upper compression platen is adjusted by motor to satisfy various test space
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

**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 1/350000 with no steps.
- American brand load cell ensures high precision and repeatability.



## Specifications

Model	HCT106	HCT206	HCT306
Type	Type B		
Capacity (kN)	1000	2000	3000
Calibration accuracy	Class 1		
Force accuracy	±1%		
Force range	1% ~ 100%FS		
Force resolution	1/350000FS		
Frame structure	One-body casting steel		
Column spacing (mm)	480		600
Maximum compression space (mm)	300		320
Platen adjustment	lead screw driven by motor		
Compression platens (mm)	300×300		
Actuator (piston) stroke (mm)	30		
Actuator (piston) speed (mm/min)	0-80		0-55
Force loading speed (kN/s)	0.02% ~ 2%FS/s		
Actuator (piston) direction control	Dual direction cylinder		
Frame dimension (LxWxH) (mm)	640×650×1620		760×730×1880
Hydraulic Power Unit dimension (LxWxH) (mm)	1150×600×900		
Power consumption (kw)	6		6
Weight (kg)	2000		3000



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