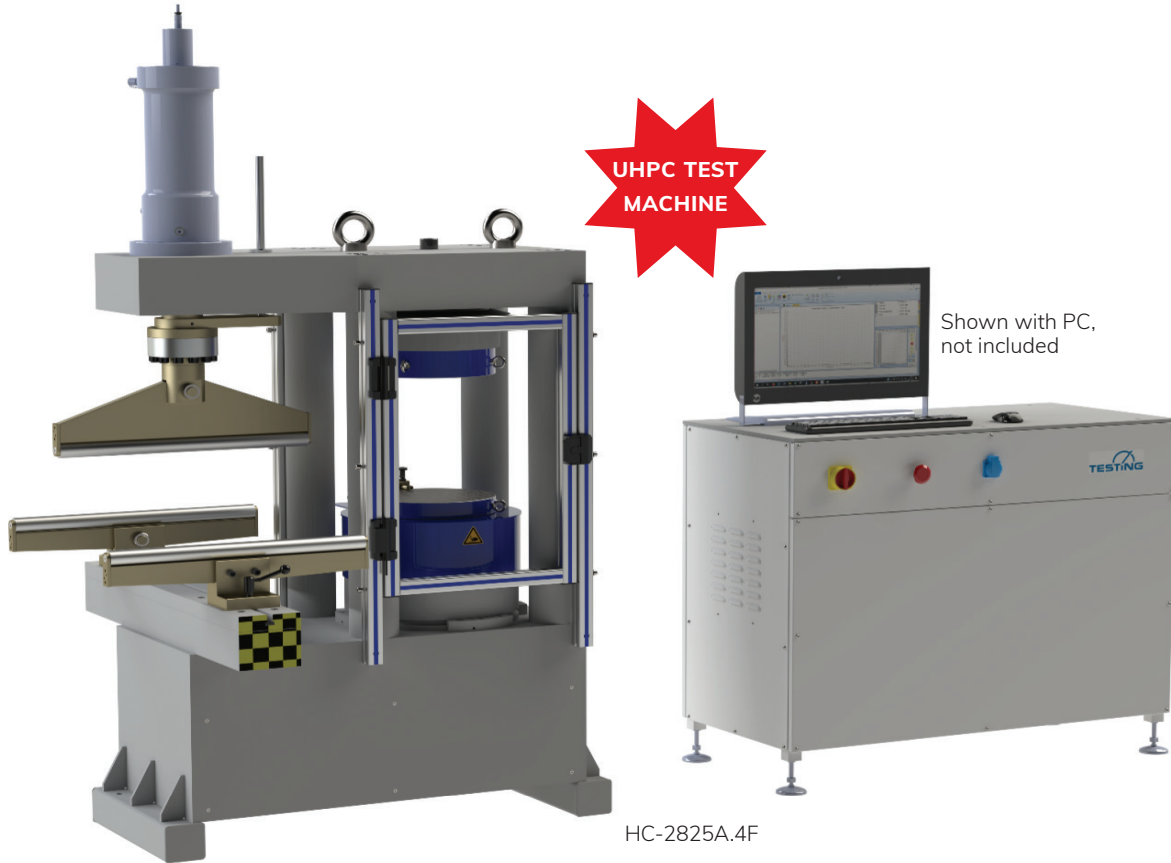




HUMBOLDT

Compression / Flexural Machine HC-2825A.4F



HC-2825A.4F

Combined Compression/Flexural Machine and Control Cabinet, 3000kN/150kN – 230V 50/60Hz

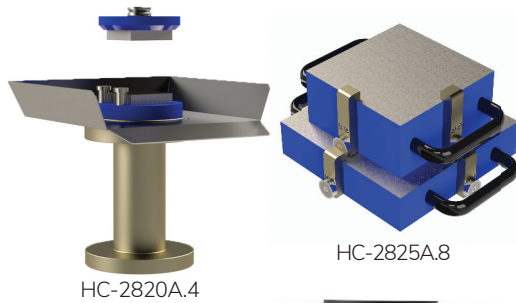
ASTM C109, C348, C349, C39; DIN EN 12390-3, 12504-1, 12390-5, 12390-6, DIN EN 12390-13, EN 1338, 1339, 1340, EN 206

Combined compression/flexural machine for compressive and flexural strength testing of cement and concrete samples, as well as ultra-high performance concrete (UHPC). According to EN 7500-1 in a very wide measuring range class 1.

- Extremely solid and stiff, 4-column frame
- Space-saving unit consisting of compression and flexural test chamber
- Large area test chamber protection made of polycarbonate protects against specimen splinters caused by explosion fractures
- High-quality servo valve for pressure or volume flow control
- Powerful hydraulic unit
- Fast lift and bypass function for time-saving positioning of the test cylinder
- DOLI EDCi Control electronics, fully-automatic test procedures suitable for force, displacement or deformation controlled tests with predefined loading speeds
- Automatic break detection and free adjustable test end conditions
- Readout and export of measurement data
- Long piston stroke of 60mm with optimized test chamber height of 210mm for a wide range of application
- Force value detection via precise force transducers (DMS based)
- Various fixed test inserts or devices can be adapted into a machine to test according to a large number of standards (ASTM / EN / BS etc.)
- 3000/100kN, 3000/200kN and 3000/300kN options also available.
- PC required, but not supplied

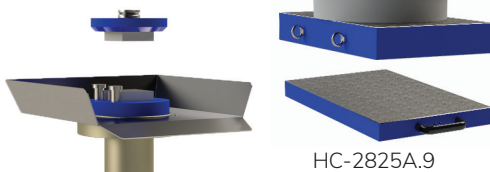
Compression / Flexural Machine

Combined Compression/Flexural Testing Machine and Control Cabinet			
Compression Side		Bending Side	
Capacity	674,426 lbf (3000kN)	Capacity	33,721 lbf (150kN)
Force measuring range, class 1	11240 - 674426 lbf (50 - 3000kN)	Force measuring range, class 1	337 - 33,721 lbf (1.5 - 150kN)
Stroke	3.93" (100mm)	Stroke	8.6" (220mm)
Test chamber height	12.4" (315mm)	Distance between rolls	8.6" (220mm)
Column spacing front	14.1" (360mm)	Dimension rolls	1.574" x 24.4" (Ø40 X 620mm)
Column spacing side	10.2" (260mm)	Adjustable distance lower rolls	3.15" - 40.16" (80 - 850mm)
Machine platens dimension	12.6" (Ø320mm)	Dimensions: Frame Control cabinet	46.1" x 41" x 90.5" (1170 x 1040 x 2300mm) 47.25" x 22.45" x 41" (1200 x 570 x 1040mm)



HC-2820A.4

HC-2825A.8



HC-2820A.6

HC-2825A.9



HC-2825A.11



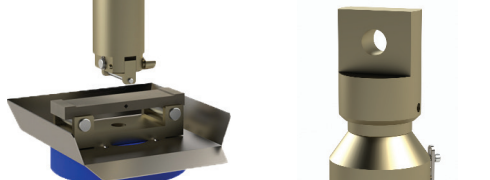
HC-2820A.5

HC-2825A.9



HC-2820A.7

HC-2825A.12



HC-2820A.7

HC-2825A.13

Intermediate Platens Set for 200mm and 150mm cubes (7.87", 5.9")

DIN EN 12390-4

Consists of (1) intermediate platen — 210 x 210 x 50mm (8.26" x 8.26" x 1.97") and (1) 160 x 160 x 575mm (6.3" x 6.3" x 2.95"). These hardened plates are placed on the lower machine platen, include a sample center ring and comply to DIN EN 12390-4. They are hardened >58 HRC with a flatness of <0.03mm, a roughness of Ra 0.4 bis 3.2µm and are parallel <0.05mm.

Intermediate Platens Set for Cubes

200mm & 150mm (7.87", 5.9") HC-2825A.8

Ship wt. 74.95 lbs. (34kg)

Intermediate Platen for 100mm (3.93") Cubes

DIN EN 12390-4

Consists of (1) intermediate platen — 110 x 110 x 50mm (4.33" x 4.33" x 1.97"). These hardened plates are used in combination with HC-2825A.8. They are hardened >58 HRC with a flatness of <0.03mm, a roughness of Ra 0.4 bis 3.2µm and contact surfaces are parallel <0.05mm.

Intermediate Platen for

110mm (4.33") Cubes HC-2825A.9

Ship wt. 11.2 lbs. (5kg)

Machine Platen, Compression Side

Platen for use on the compression side.

20.4" x 13" (520 x 330mm)

Machine Compression Platen HC-2825A.10

Ship wt. 25 lbs. (11.3kg)

4-Point Bending Device

EN 12390-5

Adjustable from (2.8" to 9.8" (70-250mm).

Height of specimen maximum: 7.8" (200mm).

Blade dimensions: Length: 7" (180mm),

Diameter: 0.78" (20mm).

4-Point Bending Device HC-2825A.11

Ship wt. 25 lbs. (11.3kg)

Machine Platen, Bending Side

EN 12390-4

Machine platen ø8.4" (215mm), spherical mounted for exchange with the upper bending edge.

Machine Platen, Bending Side HC-2825A.12

Ship wt. 25 lbs. (11.3kg)

Compression Device, 2" (50mm) cubes

ASTM C109

For testing 2" x 2" (50 x 50mm) cubes. Hardened >55 HRC.

Compression Device, Cubes HC-2820A.4

Ship wt. 25 lbs. (11.3kg)

Flexure Device, 6.3" (160mm) Prisms

ASTM C348

For testing 1.57" x 1.57" x 6.3" (40 x 40 x 160mm) prisms. Installation height: 185mm.

Flexure Device, Prisms HC-2820A.5

Ship wt. 25 lbs. (11.3kg)

Compression Device, 6.3" (160mm) Prisms

EN 196, EN 13892-2, EN 1012-11

For testing 1.57" x 1.57" x 6.3" (40 x 40 x 160mm) prisms. Hardened >55 HRC.

Compression Device, Prisms HC-2820A.6

Ship wt. 25 lbs. (11.3kg)

Flexure Device, 6.3" (160mm) Prisms

EN 196, EN 13892-2, EN 1012-11

For testing 1.57" x 1.57" x 6.3" (40 x 40 x 160mm) prisms.

Flexure Device, Prisms HC-2820A.7

Ship wt. 25 lbs. (11.3kg)

Curb Stone Stamp

EN 1340

Compression stamp, 1.6" (40mm) diameter with spherical bearing (calotte), hardened and ground.

Curb Stone Stamp HC-2825A.13

Ship wt. 25 lbs. (11.3kg)

CBR (California Bearing Ratio) Stamp

DIN EN 13286-47; TP BF-StB; SNV 670 320a

CBR stamp, 2" (50mm) diameter with hardened stamp.

CBR Stamp HC-2825A.14

Ship wt. 25 lbs. (11.3kg)

PC Software

PC software for machine operation.

PC Software HC-2820A.9

Ship wt. 25 lbs. (11.3kg)