



# HUMBOLDT 325K lbs (1445.67 kN) Compression Machines

## Humboldt HCM-3250 Series Concrete Compression Machines

ASTM C39, E-4 and AASHTO T-22 Specifications

Humboldt's HCM-3250 Series Concrete Compression Machines are built to be one of the strongest machines in its class, and able to handle even the harshest testing regimen with ease. American-Built, the HCM-3250 features a rigid, steel-welded load frame with four-inch thick upper and lower crossheads and a large, seven-inch diameter ram. The load frame is manufactured with structural-steel, side members and solid steel crossheads, which utilize a wrap-around box construction where each corner is fully-welded on both the inside and outside crosshead seams. This provides the rugged stability needed for accurate and repeatable test results year after year.

HCM-3250 compression machines come configured ready-to-test 6" x 12" concrete cylinders. In addition with the use of optional spacers and accessories the machines can be configured to test 2" x 4", 3" x 6", and 4" x 8" cylinders, beams, 2-inch cement cubes, as well as splitting, tensile -strength tests.

Available with either a manual pump and digital display (HCM-5090) or an automatic pump and digital controller (HCM-5080). Manual and automatic machines are offered in 120V and 220V. Manual Pump load frames are offered with a .5hp or .75hp pump, and the automatic machine includes a 1hp pump. The hydraulic pumps and digital indicators are positioned on the right side of the compression machine for easy access, increased productivity, and safer operation.

HCM-3250 machines are also available with automatic controller and pump configurations featuring Humboldt's HCM-5080 Automatic Pump and Controller System, delivering one of the most versatile, accurate, and user-friendly concrete compression machine controllers available today.



HCM-3250iHA

HCM-3250iH

## Humboldt HCM-3250 Series 325K lbs (1445.67 kN) Compression Machines

### Features:

#### HCM-5090 Digital Indicator and Hydraulic Pump

- Two channel inputs for load
- Provides two additional channel inputs for displacement, which allows performing extensometer and compressometer testing
- 7", high-resolution color touch-screen display with live read-out, graphical and tabular display
- Easy test setup, just choose the standard you wish to test for and the controller will walk you through the complete setup

#### HCM-5080 Automatic Controller and Pump

- 1000 tests and 3000 points per test
- Simple, fast and accurate machine calibration with accurate, motor-control knob
- Piston automatically retracts to the starting position after the sample breaks
- Test report data is presented in both tabular and graphical formats and can later be uploaded to a computer with the included Humboldt Data Download Software.
- Rapid Testing Option allows the controller to automatically create a new test name based on the last test and start a test for the next sample.
- Four-channel data acquisition

Machine Specifications		
Compression Capacity	325,000lbs	1,445.67kN
Vertical Opening	19.9375"	506.41mm
Horizontal Opening	9.5"	241mm
Piston Stroke	3"	76mm
Machine Dimensions w/ Optional Stand	31.5" x 17" x 58.5" (W x D x H)	800 x 432 x 1886mm (W x D x H)
Lower Platen Size	6.5" x 1" (Dia. x H)	165.1 x 25.4mm (Dia. x H)
Upper Platen Dia.	6.5"	165mm
Pump	Automatic: 1.0hp Std. Digital: 0.5hp Opt. Digital: 0.75hp	0.74kw 0.40kw 0.55kw
Oil Reservoir Capacity	2 gallon	7.6 liter
Shipping Weight	945lbs	428kg

HCM 3250 Series Compression Machine Models Available			
Model	Description	Controller/Indicator	Pump
HCM-3250iHA	Humboldt 325k (1445.67kN) Concrete Compression Machine – 110V 60Hz	HCM-5080 Automatic Controller	1.0hp Automatic – 110V 60Hz
HCM-3250iHA.4F	Humboldt 325k (1445.67kN) Concrete Compression Machine – 220V 50/60Hz	HCM-5080 Automatic Controller	1.0hp Automatic – 220V 50/60Hz
HCM-3250iH	Humboldt 325k (1445.67kN) Concrete Compression Machine – 110V 60Hz	HCM-5090 Digital Indicator	0.5hp – 110V 60Hz
HCM-3250iH.2F	Humboldt 325k (1445.67kN) Concrete Compression Machine – 220V 60Hz	HCM-5090 Digital Indicator	0.5hp – 220V 60Hz
HCM-3250iH.5F	Humboldt 325k (1445.67kN) Concrete Compression Machine – 220V 50Hz	HCM-5090 Digital Indicator	0.5hp – 220V 50Hz
HCM-3250iHP	Humboldt 325k (1445.67kN) Concrete Compression Machine – 110V 60Hz	HCM-5090 Digital Indicator	0.75hp – 110V 60Hz
HCM-3250iHP.2F	Humboldt 325k (1445.67kN) Concrete Compression Machine – 220V 60Hz	HCM-5090 Digital Indicator	0.75hp – 220V 60Hz
HCM-3250iHP.5F	Humboldt 325k (1445.67kN) Concrete Compression Machine – 220V 50Hz	HCM-5090 Digital Indicator	0.75hp – 220V 50Hz



**Humboldt Mfg. Co.**  
[www.humboldtmfg.com](http://www.humboldtmfg.com)  
 875 Tollgate Road  
 Elgin, Illinois 60123 U.S.A.

U.S.A. Toll Free: 1.800.544.7220  
 Voice: 1.708.468.6300  
 Fax: 1.708.456.0137  
 email: [hmc@humboldtmfg.com](mailto:hmc@humboldtmfg.com)