



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 digital indicator or a manual hydraulic pump. Humboldt's exceptional HCM-5090 digital indicator has a quiet, continuous-duty hydraulic pump equipped with a pressure-compensated loading control valve. Each component is manufactured to ISO 9001 international quality standards. Both the digital controller and hydraulic pump 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

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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



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