



HM-2700D.3F

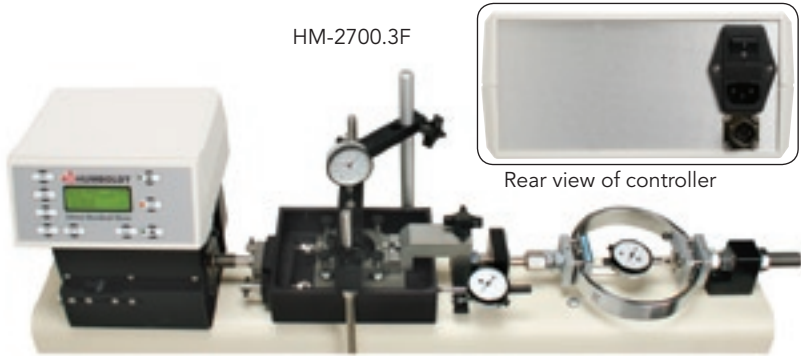
- Direct/Residual Shear, Standard Controller— HM-2700.3F**
- Direct/Residual Shear, Analog Controller— HM-2700A.3F**
- Direct/Residual Shear, Digital Controller— HM-2700D.3F**

The Humboldt HM-2700 Series Direct/Residual Shear Machines are an economical choice for performing direct/residual shear tests utilizing the deadweight method. The HM-2700s come in three different configurations: a standard controller model; a controller with four analog instrumentation channel inputs, an RS-232 Port and RS-485 Input and Output; and, a controller with four Digital instrumentation channel inputs, an RS-232 Port and RS-485 Input and Output.

All models include the carriage, stand, vertical load hanger and a balanced lever loading arm with a 10:1 ratio that reduces the weight required to perform tests. The microprocessor-based system features a stepper motor drive system, large display, touch-sensitive keypad and forward/reverse travel limit switches.

All models allow for rapid and easy manual adjustment of Shearing force speed rates. The maximum shear force is 2000 lbf (10kN), and, the maximum consolidation force is 2000 lbf (10kN). The carriage accepts shear box squares up to 4.0" (100mm) internal dimension. Forward and reverse measurements permit residual shear testing as standard. A built-in safety feature prevents the overloading of the load measuring system. Meets ASTM D3080, AASHTO T236 and BS1377 standards.

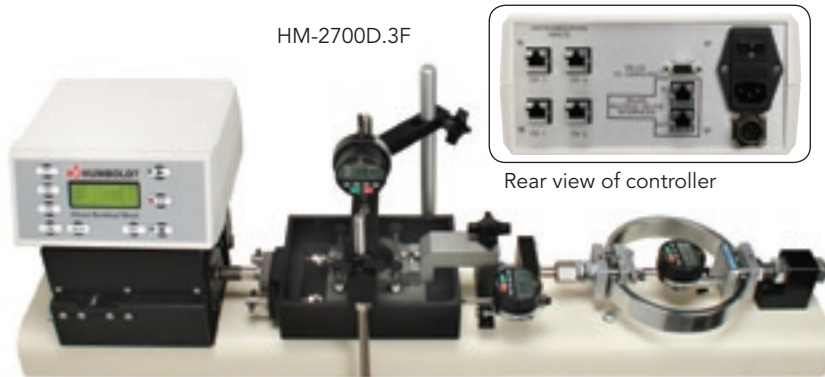
Model Configurations



HM-2700.3F



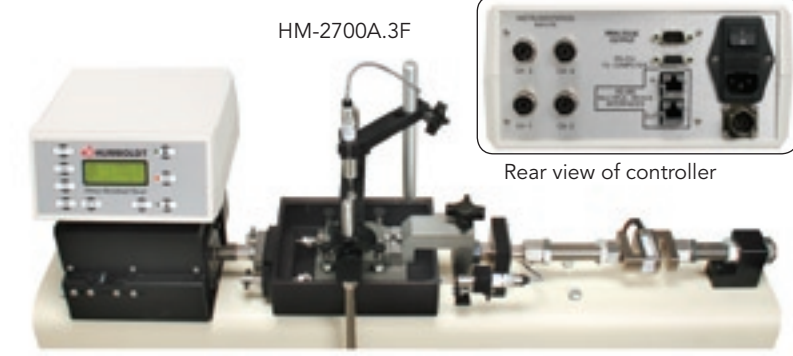
Rear view of controller



HM-2700D.3F



Rear view of controller



HM-2700A.3F



Rear view of controller

Models A and D Feature:

- Backlit LCD display
- Nonvolatile test data storage and instrument calibration
- Battery-backed real-time clock
- Auto conversion of instrument calibration between English or Imperial units and SI or metric units
- Test setup and selection via keypad
- Automatic triggering of test logging data
- View logged test data via the LCD display
- Logging rate as fast as 0.1 second/reading
- Four channels with real-time data acquisition
- RS-232 interface for computer or printer.
- Humboldt HMTS, Basic, User-Defined Level software included for data acquisition