

## HCM-5080 & HCM-5080.4F Automatic Digital **Controller for Concrete Compression Frames**

Humboldt's HCM-5080 Automatic Digital Controller for concrete compression frames is designed to make fast work of testing cylinders, cubes and beams. The HCM-5080 provides an easy-to-use automated testing work flow—just choose the test standard you wish to run and the controller will quickly guide you through the setup. And, its automated "Fast Testing" feature allows you to speed up your testing operation between breaks—you just have to load the new sample and the controller will handle the rest. It even gives each test a new sequential name.

Humboldt's HCM-5080 is now available as an automated option for all Humboldt concrete compression machines. It features a 7" highresolution, color, touch-screen, which provides accurate, precision machine operation. It also provides specific test control and data acquisition for Humboldt compression machines.

Compression machines with the HCM-5080 controller feature a robust and reliable 1hp pump, which is automatically controlled by the HCM-5080.

## **Retrofit Your Frame**

The HCM-5080 Atutomatic Controller is perfect for retrofitting previously installed compression frames by most manufacturers. The HCM-5080 includes the new, automatic 1hp motor and mounting hardware. The retrofit package is also available with a compatible transducer, if your application requires it.

**Test Setup Wizard** 

Select Test Type:

C78

C293

C469

C496

C1019

OC109/C109M

ASTM © C39



## HCM-5080 & HCM-5080.4F Automatic Digital Controller



## **FEATURES:**

Provides two channel inputs for load, which allows for the control of two separate compression frames

Provides two additional channel inputs for displacement, which allows the performing of extensometer and compressometer testing

7", high-resolution color touch-screen display with live readout, 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

Rapid approach, initial load and testing load are automated during test cycles

Automatic control of test parameters

Provides data acquisition of one reading per second

Integral storage within the controller of up to 1000 tests and 3000 points per test

Simple, Fast and accurate machine calibration

Displays in Imperial or metric numbers

Pre-programmed to run the following tests:

ASTM C39 ASTM C78 ASTM C293 ASTM C469 ASTM C496 ASTM C1019 ASTM C109/C109M BS EN 12390-3

| HCM-5080 Controller Specifications |  |
|------------------------------------|--|
| HCM-5080<br>HCM-5080.4F            | 120V 60Hz<br>220V 50/60HZ                            |
| Display                            | 7" (178mm) VGA (480 x 800)<br>Resistive-touch screen |
| Processor                          | Dual 32-bit ARM                                      |
| RAM                                | 4GB  |
| Analog to digital converter        | 24 bit   |
| Data acquisition                   | 4 Channels   |
| Data Speed                         | 1000Hz (1kH)   |
| Logging speed                      | 1 reading<br>per second                              |
| Multi-test storage                 | 1000   |
| Points per test                    | 3000   |

| HCM-5080 Controller Includes                                   |                               |
|--|-------------------------------|
| HCM-5080.800   | Controller                    |
| HCM-5080.900 (120 60Hz)<br>or<br>HCM-5080.900.4F (220 50/60Hz) | Pump Controller               |
| HCM-5080.925   | Hydraulic Power<br>Pack       |
| HCM-5080.950   | Power Pak<br>Installation Kit |

| Accessories |  |
|-------------|--|
| HCM-4177    | Pressure Transducer, 10,000 psi<br>with Cable and Plug |
| HCM-4177.1  | Pressure Transducer, 10,000 psi                        |
| HCM-4177.4  | Cable for Pressure Transducer<br>10,000 psi with Plug  |
| HCM-005050  | ISO VG 46Hydraulic Oil,<br>1L (2L required)            |



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