

# Model 2040 Automated HTHP Cement Consistometer, 40 KSI, 600°F



**Brand:** OFI Testing Equipment, Inc.  
**Product Code:** 120-40  
**Availability:** Call for availability

## Description

The Model 2040 Automated HTHP (or HPHT) Cement Consistometer was specifically engineered to determine the thickening time of oil well cements under simulated down-hole pressures and temperatures. The Model 2040 offers a computerized Data Acquisition and Control system, automatic temperature and pressure control, and a variable speed motor all standard in one easy-to-use unit.

## Features

- Touch-screen display
- Small footprint, our new and slim design saves valuable lab space
- Automatic temperature and pressure control,
- Variable speed motor (0 - 150 RPM) powered by a magnetic drive
- Windows® based, Computerized Data Acquisition and Control system, provides detailed test information in convenient formats, and can control multiple units from one computer via RS-232 or Ethernet connection
- Safety Features, temperature, pressure, and consistency alarms
- Status indicator, symbolizes (3) selectable ranges of consistency
- Conforms to API Specification 10 guidelines

## Specifications

- Maximum Pressure: 40,000 PSI (275.8 MPa)

- Maximum Temperature: 600°F (315°C)
- Consistency Range: (0 - 125 Bc)
- Digital Temperature Controller with 0.1° resolution
- Pressure indicator resolution is 100 PSI and includes both high- and low-pressure alarms
- Slurry cup rotational speed is 150 RPM
- Size: 22.5" × 27.5" × 70" (57cm × 70cm × 178cm)
- Weight: Approx. 450 lb (204kg)
- Crated Size: Approx. 26" × 34" × 76" (66cm x 86cm x 193cm)
- Crated Weight: Approx. 750 lb (340kg)

## Requirements

- Air / Nitrogen supply (100 - 120 PSI)
- Water supply for cooling (40 PSI)
- Water Drain
- 230-Volt, 50 / 60 Hz, 25-Amp electrical power supply

## Software Features

- Reports real-time data that can be exported to an Excel, Word, or similar file
- Enables you to program the temperature, pressure ramps, and motor speed
- Operates multiple units with one computer

## Components

- #120-001: Mineral Oil, 1 Gallon
- #120-10-1: Tool Kit
- #120-103: Rupture Disk, 45000 PSI
- #120-40-032: Filter, High Pressure
- #120-40-033: Filter Element
- #120-106-002: O-ring for Filter Element
- #120-35-031: O-ring for Cell, Viton®
- #120-35-033: Air Filter
- #120-35-132: Oil Filter
- #120-40-029: O-ring for Cooling Jacket, FFKM
- #120-401: O-ring for Cell, Metal
- #120-401-V: O-ring for Cell, Viton®
- #120-50-040: Wrench, Box End, 5/8"
- #120-59-076: Hose Kit
- #122-077: Fuse, 10 Amp, 5 mm × 20 mm

## **Slurry Cup Components**

- #120-519: Slurry Cup Assembly without Expansion Chamber
- #120-521: Slurry Cup Assembly with Expansion Chamber
- #120-501: Sleeve
- #120-501-T: Sleeve, Tapered
- #120-502: Diaphragm, Molded
- #120-502-1: Diaphragm, Flat
- #120-503: Paddle Pin
- #120-504: Pivot Bearing
- #120-505: Pivot Bearing Gasket
- #120-506: Paddle
- #120-507: Paddle Shaft, 7.75" (For Slurry Cup without Expansion Chamber)
- #120-508: Diaphragm Retaining Ring
- #120-509: Drive Disk
- #120-510: Drive Bar
- #120-511: Shear Pin
- #120-512: Drive Pin
- #120-513: Gasket
- #120-514: Drive Disk Set Screw
- #120-515: Diaphragm Support
- #120-516: Slurry Cup Base
- #120-517: Slurry Cup Locking Ring
- #120-520: Paddle Shaft, 9.125" (For Slurry Cup with Expansion Chamber)
- #122-522: Expansion Chamber Lid

## **Potentiometer Components**

- #120-628: Potentiometer Assembly
- #120-602: Calibration Spring
- #120-603: Body
- #120-604: Resistor
- #120-605: Contact Spring
- #120-606: Contact Arm
- #120-607: Contact Strip
- #120-608: Grounding Cable Retaining Screw
- #120-609: Grounding Contact Spring

## **Calibration Components**

- #120-35-040: Calibration Stand Assembly

- #120-75-9: Weight Hanger
- #120-75-10: Weight Set

## Optional

- #120-35-SP: Spare Parts Kit
- #120-506M: Paddle for Dynamic Settling Test

## Part Numbers

- #120-40: Model 2040 Automated HTHP Consistometer
- #120-40-DAS: Model 2040 Automated HTHP Consistometer with Computer

## Specification

Specifications	
Maximum Pressure	40,000 PSI
Maximum Temperature	600°F

## Product Gallery