



HUMBOLDT

H-1068B Ductilometer, Temperature-Controlled



ASTM D113, D5892, D6084, AASHTO T51

Humboldt Ductilometers determine ductility of formed asphalt/cement or semi-solid bitumen by measuring the distance of elongation before reaching the breaking point of a briquette sample, which is pulled apart at a specific speed and temperature. The H-1068B adds a circulating temperature-control unit. Solid-state thermostatically controlled bath and circulator maintain water temperature within a $\pm 0.18^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$). The H-1068B is a three-speed machine designed for Standard and Force Ductility tests. The unit tests three briquettes simultaneously and its DC, direct-drive motor maintains constant speed, entirely vibration-free. Speeds of 1/4, 1 or 5cm per minute are selected via lever shift on mechanical gear box.

A single stainless steel lead screw mounted above water level prevents agitation of water and premature rupture of specimens. A traveling pointer adjusts to zero starting position and indicates exact position of carriage on a linear centimeter scale attached to trough's front edge. Maximum carriage travel (elongation) is 150cm with an automatic stop.

The Unit has a stainless steel interior with an overflow connection, and a baked-enamel, stainless steel-wrapped exterior. Gears are bronze or brass; all other parts are solid

brass to prevent rusting. Finned stainless steel tubes beneath a false bottom provide efficient thermal transfer. Includes a 6' (183cm) cord, feed-through switch and 3-prong plug. Includes 3 standard H-1080 briquette molds with H-1090 plates. Trough overall dimensions: 11.75" x 74" x 6.375" H (30 x 188 x 16cm). H-1068PC Acrylic Cover is recommended to maintain constant tank temperatures.

Ductilometer, 120V 60Hz

Ductilometer, 220V 60Hz

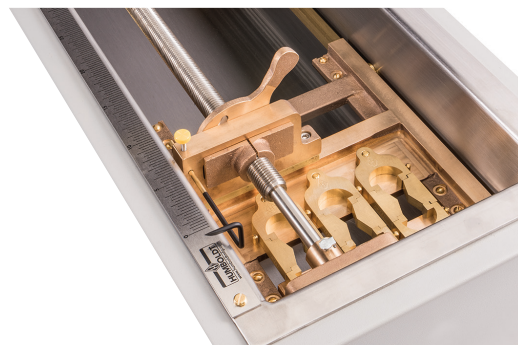
Ductilometer, 220V 50Hz

H-1068B

H-1068B.2F

H-1068B.5F

Shipping wt. 410 lbs (185.9kg)



Interior of H-1068 showing test molds, screw drive and disengage lever.

H-1068B Ductilometer, Temperature Controlled

Circulating Temperature Controller

H-1068CB. It provides a solid-state, thermostatically controlled bath and circulator to maintain water temperature within a $\pm 0.9^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$). Temperature range is: -10°C to 80°C . 1000W heating capacity with 0.1°C stability. Dimensions: 25" x 9" x 19" (635 x 229 x 483mm).

Circulating Temp. Control, 120V 60Hz

H-1068CB

Circulating Temp. Control, 220V 60Hz

H-1068CB.2F

Circulating Temp. Control, 220V 50Hz

H-1068CB.5F

Shipping wt. 80 lbs (36.2kg)



H-1068CB

Ductilometer Stand

Designed for use with Humboldt Ductilometers, places machine at working height and includes a shelf for circulating temperature controller. Features square steel legs. Needs assembly.

Ductilometer Stand

H-1068.100

Shipping wt. 200 lbs (90.7kg)



H-1068.100

Ductility Briquette Mold

ASTM D113

Mold for making test briquettes for use with any ductility testing machine. H-1080 briquette mold has angled sides for use in standard test. Four accurately machined interlocking brass segments are interchangeable with same parts from different molds; no parts identification marks are needed for matching. End pieces, designed to hold specimens being elongated, are provided with mounting holes.

Ductility Briquette Mold

H-1080

Shipping wt. 0.8 lb (0.36kg)



H-1080

Elastic Recovery Mold

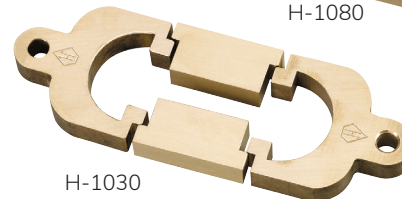
ASTM D5892, D6084, AASHTO T301

Mold for making test briquettes for use with any ductility testing machine. H-1030 briquette mold has straight sides for use in forced tests. Requires H-1090 or H-1090.3 base plates. Four accurately machined interlocking brass segments are interchangeable with same parts from different molds; no parts identification marks are needed for matching. End pieces, designed to hold specimens being elongated, are provided with mounting holes.

Elastic Recovery Mold

H-1030

Shipping wt. 1.1 lb (0.49kg)



H-1030

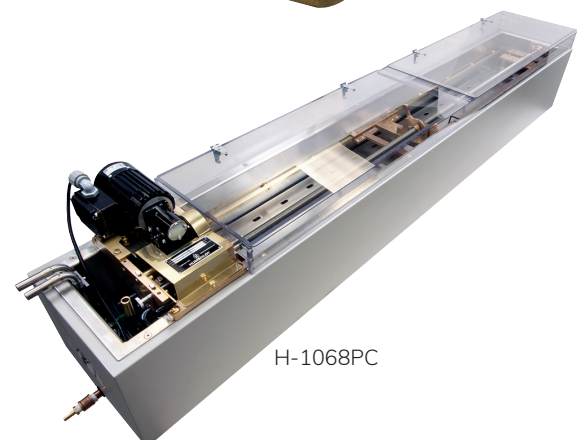
Cover for Ductilometers (Clear, Acrylic)

Temperature control cover made from clear acrylic sheet. Can be used with all ductility machines, except HA-1060, which comes with one.

Ductility Machine Cover

H-1068PC

Shipping wt. 40 lbs (18kg)



H-1068PC



Humboldt Mfg. Co.
www.humboldtmgf.com
875 Tollgate Road
Elgin, Illinois 60123 U.S.A.

U.S.A. Toll Free: 1.800.544.7220
Voice: 1.708.456.6300
Fax: 1.708.456.0137
email: hmc@humboldtmgf.com