

The Sheen Digital Rototinner™ is a robustly constructed reliable instrument, which is easy to use, clean and maintain.

Three models are available:

A disc shaped rotor (SH455N/15) allows for the addition of thinners so that test samples can be adjusted to their correct viscosity and for the rapid adjustment of production batches. Two ball shaped rotors (SH455N/65 & SH455N/340) may be used for more viscous samples and for the addition of thinners more slowly.

Key Features

- 3 models cover 0-340 Poise range
- Microprocessor controlled for accuracy and repeatability
- Up to 9 readings can be stored in non-volatile memory
- RS 232 printer interface
- Automatic display hold allows reading to be noted easily
- Multipoint automatic calibration for greater accuracy
- Opto switch for smoother operation and greater reliability
- Quick release “bayonet” chuck for rapid changeover and cleaning

Description

A constant speed motor drives the rotor which is immersed into the sample under test. The sample, usually in a 250ml. full aperture tin container, is positioned on the magnetic ring on the stand base. The paddle or ball is rotated at constant speed (562rpm) in the sample and the torque induced in the motor is measured and converted into poise.

Operation

Ensure that sample is at uniform, correct temperature. The rotor is lowered into the sample by pulling the handle down to its fullest extent, which activates the rotor via an opto switch. The digital reading in Poise is noted on the display. Free-flowing liquids will give a steady reading quickly; structured materials take longer because the shear applied by the rotor will decrease the reading.

After the reading has been taken, the handle is lifted until a slight resistance is felt which checks the upward movement of the rotor, so that it can spin off the test material below the rim of the container. The handle is raised to its maximum extent, which automatically switches off the rotor. When necessary the reading obtained should be corrected to allow for the temperature of the sample; usually the specific temperature is 25°C.



Viscosity: Viscometers: **Digital Rototinner (SH455N)**

Specification

Range	0.1-15P, 0.1-65P, 1.0-340P*
Resolution	Within 0.1P or 1.0P*
Accuracy	±2% of full scale
Repeatability	±1% of full scale
Operating temperature	+15°C – +35°C (+59°F – +95°F)
Spindle speed	562rpm ±1%
Sample container	250ml (standard)
Dimensions	200mm x 360mm x 550mm (w x d x h) (7.9" x 14.2" x 21.7")
Weight	8kgs (17.6lbs)
Power consumption	30 watts (max)
Electricity supply	200/250V, 110/120V 50Hz or 60Hz

Standard supply

Comes complete with 1 paddle (customer specified). Additional paddles available (0-15, 0-65 or 1-340P). Can be supplied programmed for 1 or up to 3 viscosity ranges (request at time of ordering). Calibration certificate available.

International standards

The instrument is designed to comply with BS 3900 A7, ISO 2884-2.

Ordering information

Product ref.	Description
SH455N/15	Digital Rototinner: 0-15 Poise
SH455N/65	Digital Rototinner: 0-65 Poise
SH455N/340	Digital Rototinner: 0-340 Poise
SH409/081/D	Sample Container 250ml
SH490/P	Battery powered rechargeable serial printer
SH480/019/S	Calibration key (required for instrument re-calibration)
SH455n/034/S	Disc Paddle Assembly 0-15 Poise
SH455N/037/S	Ball Paddle Assembly 0- 65 Poise
SH455N/040/S	Ball Paddle Assembly 1- 340 Poise
Calibration	Product ref.
SH455N/15	Oils SH441/5, SH441/11, SH 441/13
SH455N/65	Oils SH 441/11, SH 441/14, SH 441/16
SH455N/340	Oils SH 441/14, SH 441/17, SH 441/20

Please note: 3 oils are required to calibrate each range.

Owing to continuous development, we reserve the right to introduce improvements and modify specifications without prior notice.

**Our sales team can be contacted on:
info@sheeninstruments.com or +44 (0)208 783 4321**