

MODEL 670

IRM MAGNETIZER

FEATURES

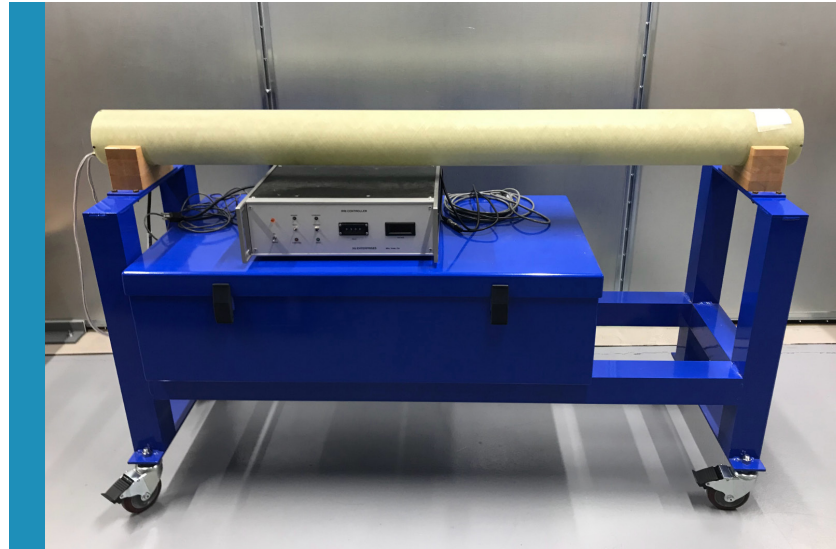
- Generates magnetic fields from 0 to 10 kilogauss in a 3-millisecond pulse
- Magnetizes standard geophysical U-channel or larger cores of up to 1.5 meters in length
- Powers from 115 V or 220 V
- RS232 interface enables automatic operation from a computer
- In conjunction with the Model 855, in-line Degausser and ARM subsystems, speeds up and streamlines the measuring process by combining measurements into one system

APPLICATIONS

- Paleomagnetic Research

The Model 670 IRM (Impulse Remanent Magnetizer) is an easy-to-use tool for magnetizing geophysical cores over a wide range of fields. It operates by charging capacitors with a low current, then discharging the capacitors through a long solenoid to generate a pulsed magnetic field.

The manual controls consist of a power on/off switch, a thumbwheel switch for dialing in the desired field, and a cycle start button. An LED display tracks the building of voltage on the capacitors. When the charge reaches the desired value, the instrument generates the pulsed field automatically.



PERFORMANCE

Field Intensity	0 to 10,000 Gauss
Field Duration	3 milliseconds
Field Resolution	10 Gauss
Field Accuracy	1% of the field setting or ± 10 Gauss, whichever is larger
Field Uniformity	$\pm 2\%$ over the dimensions of a standard paleomagnetic U-channel core

SOLENOID

Diameter	1.65" (41.9 mm)
Performance	Magnetizes a 1.5 meter core with one pulse
Maximum Field	10 Kg; other larger-diameter solenoids are also available at reduced maximum field ratings

ELECTRICAL

Power Supply: Voltage	115/220 Volts
Power Supply: Power	500 Watts
Maximum Internal Voltage	1,500 Volts

PHYSICAL

Length	15" (381 mm)
Width	16.75" (425.45 mm)
Height	6" (152.4 mm)
Weight	5 lbs (2.27 kg)

Specifications are subject to change without notice.