

Name of Machine	ASC Scientific Impulse Magnetizer
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Make: ASC Scientific, USA	Model: IM-10-30 Impulse Magnetizer
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Specifications

Coil	Field Range	Sample Cavity	Sample Holder
#1	30 - 600 Gauss	2.00"	1" cubes/cores
#2	0.5 - 11 KGauss	2.00"	1" cubes/cores
#3	1.5 - 27 KGauss	1.25"	1" cores; 7cc sample boxes
#4	3 - 50 KGauss	0.5"	7/16" x 3/4" vials/cores

Description

The instrument generates short duration magnetic fields within the sample coil, enabling a variety of high-field magnetic studies to be conducted on geologic samples without the need for a large electromagnet. The IM-10-30 is ideally suited for imparting IRM into a sample and anisotropy of IRM acquisition studies. It has interchangeable coils and is capable of generating fields in excess of 28 KGauss for full size paleomagnetic specimens and 50 KGauss for smaller samples. Four different plug-in coils are available with the capability of accurately generating fields ranging from 30 Gauss to 50 KGauss. Each coil comes with sample holders for accurately positioning and aligning the sample during field exposure.

Principle

The magnetic field is produced by discharge of energy from a capacitor bank through a coil surrounding the sample cavity. The capacitor bank is first charged to the desired voltage (corresponding to the desired field). It is then discharged through the coil very quickly using a high capacity SCR as a switch. Because very high current levels are involved, the coil and all circuitry are totally contained in a single case.

User Instructions

1. Each requisition should be addressed to XXXXXX for allotment of analysis date
2. Payment is to be made in advance through bank draft in favor of "Director, BSIP, Lucknow". Kindly visit our website for the updated rate-list
3. Data generated will be provided on CD or DVD
4. Sediment/Soil samples should be fully packed in 10 cc plastic bottles

MEASUREMENT/ANALYSIS**I. Rock, Mineral and Environmental Magnetism Measurements**

Isothermal Remanent Magnetization (IRM) - Measured in forward field steps of 20 mT, 40 mT, 60 mT, 100 mT, 300 mT, 500 mT, 700 mT, 1000 mT and in backfields of -20 mT, -30 mT, -40 mT, -60 mT, -100 mT, -300 mT respectively

Contact Person

In-Charge Dr. Binita Phartiyal: Mob. 9411856391
binita_phartiyal@bsip.res.in

Staff: Dr. Md. Arif: Mob. 9559096764
arif@bsip.res.in

Charges

S. No.	Measurements and Analysis	Instruments Used	Rates		
			Students @25% Discount	Govt. Organizations (University/ Institute)	Private Sector/Industry
1	Isothermal Remanent Magnetization (IRM)	AGICO JR-6 Spinner Magnetometer, ASC Impulse Magnetizer	Rs.375/- each specimen (includes six IRM steps)	Rs. 500/- each specimen (includes six IRM steps)	Rs. 1000/- each specimen (includes six IRM steps)

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

(Sample Information Form)

REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (In-house/sponsored/Govt. organization/private): _____

Number of samples: _____

Sl. No.	Sample ID	Type/Nature of Sample	Quantity	Year of collection	Lat./Long.	Remarks, if any
1						
2						
3						
4						
5						

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

SAMPLE REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (Inhouse/inhouse sponsored/Govt. organization/private): _____

Number of samples: _____

Nature of samples (with details): _____

Scientific Objective of this study: _____

Additional information, if any: _____

Location (Lat & Long): _____

Exposed Section/Trench/Core/Others: _____

(For office use only)

Lab Reference No.:

R.P.C.C./ Registrar : Kindly raise the bill for the above

Total Charges:

Taxes:

Grand Total: