

SIMS
the source of ndt



An ISO 9001 Company
CE Marked

SUVIDHA INSPECTION METHODS & SYSTEMS

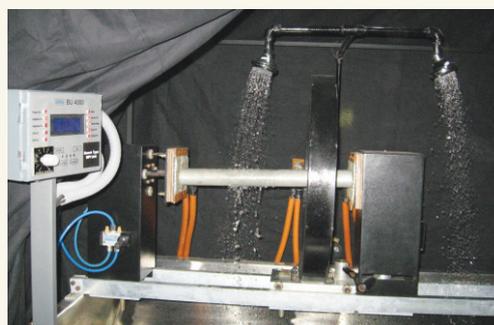
Prologue

SIMS (Sividha Inspection Methods & Systems) is an ISO 9001-2008 certified company founded in 2001 by RMK Murthy, with the objective of providing NDT Products & Services with the level of quality, reliability and integrity demanded by various industries that rely on Non Destructive Testing methods.

SIMS manufactures very high quality testing instruments for MPI (Magnetic Particle Inspection), Ultra Violet Lights, Radiographic Film Viewers and also provides a spectrum of Accessories and Consumables.

Some of the venerable clientele of SIMS include BHEL, ECIL, Department of Atomic Energy, India Railways, Ordnance Factory, NTPC, HAL, L&T, MIDHANI, NILE Ltd., OCTL, RANE Group, VOITH, ITC, JINDAL, ASTER, Harihara Alloys, ISGEC, Ultra Tech Cements, VA Tech Hydro Ltd., Fine Forge Ltd., BSCPL, Megha Engineering, Aurobindo Pharma, Dr.Reddys Labs, Gurunanak Engineering College, Power Mech Projects Ltd., KLR Universal, Pitti Castings, GS Alloys, Sara Sae, NFCL, PES Engineers, Thermal Systems, APHMEL, Visakhapatnam Steel Plant, The Singareni Collieries Co. Ltd., Atlas Copco, GFCL, and KCP Ltd.

Bench Unit, Model : SIMS – BU



Technical Specifications

SIMS – BU is a bench type unit designed to detect defect in any direction using contact shot, coil shot and central conductor magnetization methods. It has heavy duty head and tail stocks for testing small and heavy size parts. It has infinitely variable step-less magnetizing current control with thyristor technology. In AC mode it can be used for strong surface indication and in HWDC mode, for surface and subsurface indication.

SIMS-BU has two variants : **SIMS-BU-Microcontroller** and **SIMS-BU-Digital Series**.

Specs	SIMS BU
Input Supply: Voltage	415 V
Frequency	50 Hz
Phase	2 Phase
Max. Output Current	2000-14000 Amps – AC / HWDC
Current Drawn	25-300 Amps (intermittent)
Open Circuit Voltage :	12 - 18 V
Max. KVA Ratings	10 - 100 KVA
Longitudinal Magnetization thru Coil of 250-450mm ID	5 KAT
Duty Cycle	0.5 sec ON & 5 sec OFF
Class of Insulation	'F' Class
Current Control	Solid State Thyristor (step-less)
Reservoir Tank	SS Tank for Corrosion Resistance 25-30 Lts
Dimensions	Varies based on Job Length
Job Length (mm)	100-2500 (user specific)
Air Pressure Required	5 kg/cm ² (for pneumatic system)
Auxiliary Supply	230V AC – 5A – Single Phase
Demagnetization	Automatic Current Decay Demag
Parameters Display	Current Readings - retained till next Shot
Dark Room	Black Hood
Turbulence Agitation	Longer Bath Life & Clearer Indications
Safety Features	Emergency Stop Button Over Load Protection Thermal Cut Off with additional cooling fan

SIMS – BU – Microcontroller



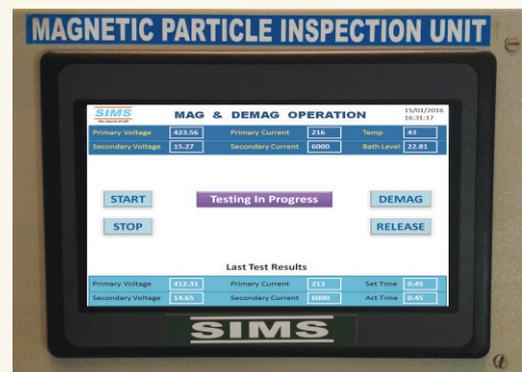
Salient Features

- Micro controller based semi automatic machine
- LCD Display on Control Panel providing operating parameters
- Thyristorised seamless current control
- Available in 2000, 3000, 6000 and 10000 Amps ratings
- AC for surface and HWDC for surface & subsurface defect identification
- Locates defects in longitudinal and circular directions too
- Can be used for testing small & heavy size parts

SIMS – BU – Digital Series

Salient Features

- PLC based automatic machine for MPI, launched for the first time in the country
- HMI (Touch Screen) for operation and for displaying parameters.
- Testing Parameters of 10 different Jobs can be saved and loaded by the operator to carryout the test.
- Mag Current calculation, magnetic bath shower, head & coil shots and demag cycles are carried out automatically with just a single touch. This saves over 60% of the operating time compared to analog model thus resulting in increased productivity
- PLC can be connected to a computer to log all the test data (optional) thus improving data integrity
- Infinitely variable thyristorised magnetizing current control
- Available in 2000 - 14000 Amps ratings
- AC and HWDC for surface & subsurface defect identification
- Produces longitudinal and circular Magnetic Fields
- Can be used for testing solid & hollow parts



Touch Screen for Operation

Array of Accessories



Centrifuge & Stand



MPI Powder



Puffer Bulb



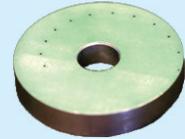
UV Protection Goggles



Prod Set



Double Prod



Ketos Ring



UV Bulb 50W



UV Spot Bulb 100W



UV Bulb 125W



UV LED Torch



MTU Ring



Gauss Meter



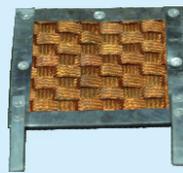
UV Intensity Meter



Lux Meter



Mag. Cable



Copper Pad



Castrol Strips



ASTM Test Block



Pie Gauge



Yoke - Dead Weight



BHEL Test Block

Authorised Dealer

SUVIDHA INSPECTION METHODS & SYSTEMS

Plot 84, Reddy Colony, Near Chakripuram 'X' Roads, Kushaiguda, HYDERABAD, Telangana, INDIA - 50062
 Tel : 040-65792125; Mob : 92465 66029, 94400 66029, 99897 44186
 website : www.simsndt.com, www.simsndt.in, email : sims_ndt@yahoo.co.in