

# EECIFLUX

## HORIZONTAL BENCH UNIT (WITH SMART DIGITAL CONTROLLER)

### Model: EFSD-5000, EFSD-8000

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### PRODUCT DESCRIPTION

- Horizontal Bench Unit is used to generate powerful field of magnetism to test different sorts of finished and semi finished parts. Notable for its compact shape, this machine can be easily integrated with different testing environments.
- The equipment is capable of detect surface & sub-surface defects in ferromagnetic material such as steel and nickel – based alloys

### FEATURES

- **Smart Digital Controller** and display meter for easy current setting and closed loop current feedback
- Contact shot for Circular magnetization & Coil shot for longitudinal magnetization of parts
- Fabricated Frame (M.S.) with splash guard & wood grill assembly
- Stainless Steel circulation tank of SS304 grade material with Turbulence Agitation System, Mono-Block Pump and Hand Nozzle
- Rugged construction for reliable magnetic inspection. In-built power source with infinitely variable self-regulating current control
- 5 turn 300-mm. dia base mounted coil
- Pneumatically operated head stock with foot switch (100 mm stroke length) & rail push bar assembly for hands free operations
- Push bar assembly for hands free operation

- In-built AC decay Demagnetization facility
- Black color Inspection hood of resin for fluorescent wet particle inspection of jobs under ultraviolet lights. AC / FWDC changeover by selector switch
- AC / FWDC solution
- Current assurance alarm indicator
- Automatic AC current decay from the set value of current within defined time for demag function
- Variable MAG ON time from 0.5 to 2 sec

## BENEFITS

- Locate defects in any direction using head stock, central conductor, Coil. (Circular magnetization & longitudinal magnetization)
- Infinitely variable current control
- Assure testing accuracy and repeatability with direct amperage control
- EECI MPI Bench unit can be customized to meet specific application

SPECIFICATIONS		EFSD-5000	EFSD-8000
Input Supply	Voltage(AC)	415 VAC	
	Frequency	50 Hz	
	Phase	2 $\Phi$	
2-output current in Ampere	Contact (AC/HWDC/FWDC) Circular Magnetization	5000 Amp	8000 Amp
	Coil (AC/HWDC/FWDC) Longitudinal Magnetization	3500 Amp	6500 Amp
Input Current Drawn (Amperes)		300 Amp	500 Amp
Max Duty Cycle @ 10%		0.5 Sec ON / 5 Sec OFF	
Open Circuit Voltage (AC)		25V	25V
Max KVA ratings		125 KVA	200 KVA
Magnetic Coil		Dia 300 mm	Dia 300 mm
Current Control		Thyristorized step-less solid state current control	
Mag Shot		Adjustable Mag ON time from 0.5 sec to 2.0 Sec	
Display		4 Digit 7 segment Digital current display	
Demagnetization		Decay AC current from maximum to zero gradually	
Class of Insulation		F Class	
Fluid tank		40 ltrs	
Recommended Compressed air		6-7 kg/cm <sup>2</sup>	
Weight		1500 kgs	1800 kgs