

# Specifications

\* Optional. X Not Available.

Description	Model – UAHD /UFHD	Model SAUAHD-SAUFHD	Model SAUAFD – 403 DI / SAUFHD DI.
Open Voltage <30 Volt across the Transformer terminals	✓	✓	✓
Safety Curtain	X	*	*
Control Circuit 220 / 24 volt	✓	✓	✓
Thyristor Current Control	✓	✓	✓
Current head shot 0 to 15000 Ampere (Circular Magnetization) AC/HWDC/FWDC/3FWDC	✓	✓	✓
Coil Shot 0 - 15000 amperes (longitudinal Magnetization) AC/HWDC/FWDC/3FWDC. Coil Shot.	✓	✓	✓
Flux Flow (longitudinal Magnetization) only in UFA/UFHD/SAUFHD/SAUFHDDI models. 5-60 KAT	✓	✓	✓
Coil Movement along axis pneumatic	X	*	*
Head stock Plunger manual pneumatic clamping	✓	✓	✓
Head Stock Plunger Automatic clamping	X	✓	✓
Manual Spray	✓	✓	✓
Automatic spray	X	*/ ✓	*/ ✓
Oil tank capacity 20/30/40 litres	✓	✓	✓
Magnetization Manual by pressing two buttons	*	*	*
Auto Magnetization by pressing two buttons.	X	*/ ✓	*/ ✓
Job accommodation length. 200mm-10meters.	✓	✓	✓
Recollection & coolant tank made of SS 304 or MS	✓	✓	✓
Black light kit for fluorescent particle inspection.	✓	✓	✓
Analog ammeter for current reading.	✓	✓	✓
Digital reading with current retention & Set value reading	X	*/ ✓	✓
PLC with HMI	X	*/ ✓	✓
Oil level indicator	X	✓	✓
Air pressure regulator	✓	✓	✓
Air pressure indicator for set value.	X	*/ ✓	✓
Recipe function.	X	*/ ✓	✓
Copper Central Conductor for hollow components.	✓	✓	✓
Copper pad	✓	✓	✓
Centrifuge tube with stand for checking the concentration of the powder with oil.	✓	✓	✓
Demagnetizer	✓	✓	✓

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Authorised Distributors

for Spectronics Corporation USA - NDT and Chemetall, Eddy Current and Ultrasonic Systems.



All our products meet both National & International standards such as ISI, ASTM, BIS, DIN, JIS ETC.



Input : 3 phase 220/415 volt AC, 50/ 60 Hz , with Neutral and Earth.

These units are widely used for sampling inspection, forge shops, foundries, heat treatment shops, grinding and machining shops. Suitable for Automotive, Locomotive, Shipbuilding, Aeronautics, Tool room and other engineering industries as well. Current & Flux Series provide both circular & longitudinal magnetization to locate cracks in all directions.

#### LONGITUDINAL MAGNETIZATION

The part is placed between the poles of a powerful electromagnet. The magnetic field created is longitudinal. Detectable defects are transverse to the longitudinal field i.e. transverse cracks and cracks deviating slightly from the traverse direction. A stepless control circuit is used to regulate the flux density.

Output magnetizing current available in AC, HWDC, FWDC & 3 Phase FWDC. Current available from 0 to 15000 amperes; bed length from 200mm to 1500 mm or as per customer's requirement. The machine can be automated as well as conveyorized; pick and place system can also be incorporated. PLC controlled.

#### DEMAGNETIZER:

After magnetization and inspection, demagnetization is compulsory. Demagnetizer is available from 4 inch ID to 80 inch ID coil. Models from Stand-alone coil to Chute type, Carriage & Trolley Type, Conveyorized type and Pneumatic type. Everything is custom built as per customer requirement.

#### FLAWCHECK YOKE:

Portable machine. Available options: Permanent yoke, AC yoke, AC/DC yoke, Battery operated Yoke.



#### MOBILE SERIES

These units are ideally suited for low volume production testing applications and for sample inspection on volume runs. Their compact size permits passage through narrow shipman ways and their compliance with NAVSHIPS make these units applicable for many shipward test requirements.

#### PRODUCT DESCRIPTION:

These units are self-contained and are housed in rugged aluminum and steels cases. Magnetizing cables in a wide selection of length and prod assemblies are available separately. Controls, indicators and output terminals or remote control plug-in receptacles are located on the front panel for maximum visibility and convenience. The current control is in steps. The ammeters show the true magnetizing current in either the A.C or H.W.D.C mode operation. All the above units are built for heavy -duty

industrial application with a 50% continuous duty cycle of the rated output current. Electrical component including switches, overload relays, transformers and rectifiers are selected to provide long, trouble-free operation under rated load. Overload protection is provided for the safety of the equipment and operator. Demagnetizing facilities can be incorporated at an added cost on customer's request.



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Output Magnetizing current Available in AC, HWDC, FWDC & 3 Phase FWDC. Current available from 0 to 15000 amperes. bed length from 200mm to 10000 mm or as per customer's requirement. The standard I.D coil of all above units is 12". Larger dia coil of 16, 20 to 80 inch I.D coil with raised contact heads can be supplied as per need, at additional cost. Smaller ID coil can also be provided.

Inbuilt Demagnetization is also available. The machine can be automated as well as conveyorized, pick and place system can also be incorporated. PLC Controlled.