



TECHNICAL MANUAL

Operating and Maintenance Instructions for

SDD-MASTER

SECURE DATA DEGAUSSER

VERITY SYSTEMS

SDD-Master Secure data degausser

OPERATING MANUAL

PRODUCTION STANDARD

ZZ001201 – 115V 60Hz

ZZ001202 – 230V 50Hz

WARNING: TO AVOID ELECTRIC SHOCK HAZARDS, THE COVER SHOULD ONLY BE REMOVED BY AUTHORISED PERSONNEL

CAUTION: IT IS RECOMMENDED THAT MAGNETIC STORAGE MEDIA IS KEPT AT LEAST 2 METRES FROM THE DEGAUSSER

IMPORTANT: THE POWER ON/OFF SWITCH USED ON THIS EQUIPMENT IS NOT AN ISOLATING SWITCH. IT IS RECOMMENDED THAT THIS EQUIPMENT SHOULD BE OPERATED FROM A SEPARATE SWITCHED ISOLATOR.

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**This document refers to SDD-Master degausser
Part Nos ZZ 001 201
ZZ 001 202**

1. SPECIFICATION

MEDIA HANDLING	2.5" and 3.5" hardc drives (up to a physical max of 4" x 1" x 5.8" (WxHxD) DLT, S-DLT, LT01, LT02, LT03 and LT04 3480/3490/3490e, 3590, 9840 & T9940 tape Ultrium & Redwood SD-3 tape & cartridges Mammoth 1 & 2, 8mm, AIT1 & 2, M2 tape DDS1, 2, 3, 4 & 5, DD-2 & DFT-1 & DFT-2
THROUGHPUT	40 hard drives or cartridges per hour typical
DUTY CYCLE	Continuous
CYCLE TIME	60 seconds typical
OPERATING VOLTAGE	230v (50Hz) or 115v (60Hz) – unit dependant
CURRENT	10 amps typical 230 V 50 Hz 16 amps typical 115 V 60 Hz
TEMPERATURE	5°C (41°F) to 40°C (104°F)
HUMIDITY	10% to 80% non-condensing
MOUNTING	Free standing table top
DIMENSIONS	620mm x 672mm x 884mm (24.41" x 26.46" x 34.8")
DIMENSIONS (PACKED)	920mm x 920mm x 1180mm (36.22" x 36.22" x 46.46")
WEIGHT	149kg (328.5lbs)



ENVIRONMENTAL PROTECTION

Waste electrical products should not be thrown away with household waste.
Please recycle where facilities exist.
Check with your local authority or retailer for recycling advice.

2. INTRODUCTION TO THE SDD-MASTER DEGAUSSER

The **SDD-Master** is a high energy, hard drive eraser designed to offer complete and secure erasure of magnetic media, to the highest level, including perpendicular recording hard drives. The SDD-Master is also capable of erasing data storage media including DLT, LTO, 8mm, DDS and more.

Performance

The SDD-Master generates one of the strongest erasure field of any degausser on the market. Where security is of the utmost importance, users can quickly sanitise their media without the need for disassembly.

Operation

The SDD-Master is a bench mounted, chamber degausser, making operation safe, effective and simple for anyone. Operators simply lift the perspex lid, insert the media into the caddie, close the lid and press the 'Start' button via the control panel or the remote control. Media is transported into the degausser where the magnetic field is activated by a powerful pulse discharge. While inside the degausser, media is automatically rotated and a further two magnetic discharges are applied, ensuring complete erasure. The entire process takes just 60 seconds. The processor controlled SDD-Master continuously monitors the operation ensuring that the erasure cycle is completed. The operator is immediately alerted to any interruptions in the erasure cycle on the LCD control panel.

3. INSTALLATION

Care should be taken when moving/handling the SDD-Master, it is a heavy unit and it should not be moved without adequate manpower or lifting aids in place.

3.1 Unpacking

The SDD Master is shipped inside a wooden packing crate.

Unpack the degausser carefully by disassembling the wooden packing crate and inspect it for signs of physical damage. If damage is apparent, a claim should be filed with the carrier immediately.

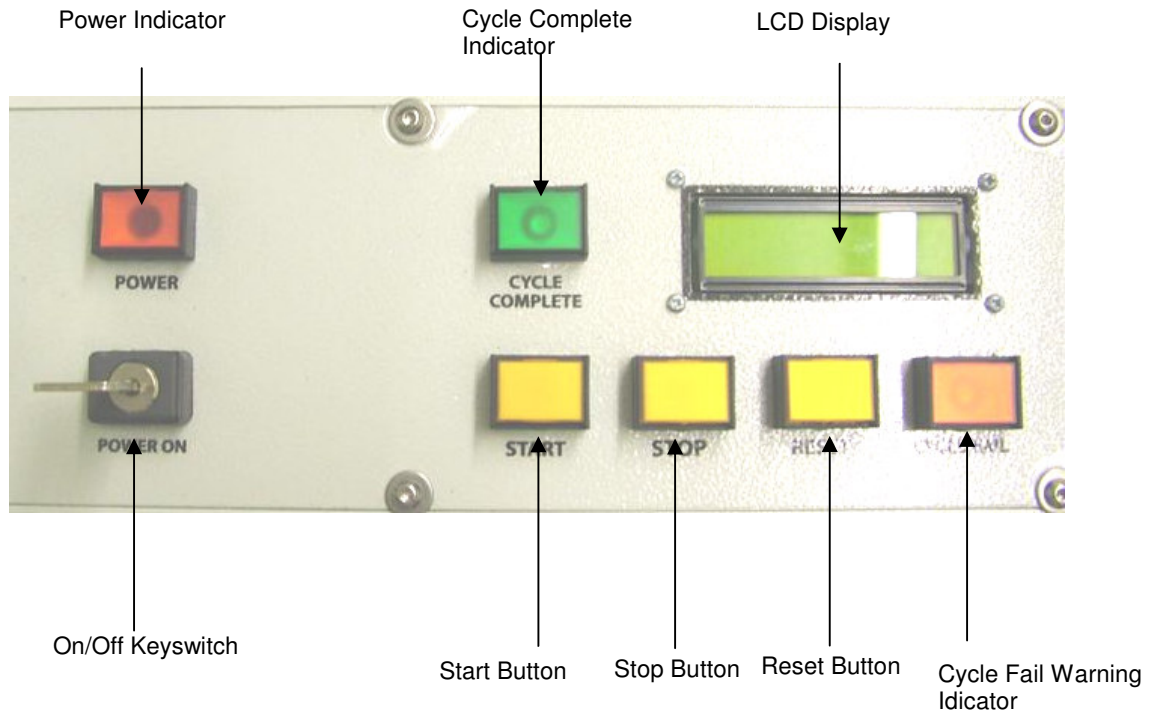
Once you have exposed the SDD-Master degausser, you should use lifting aids to help manoeuvre the unit into its final resting position.

3.2 Power Wiring

Power connection is made to the SDD-Master degausser in the form of a high current IEC type electrical lead (supplied). The user should ensure that their power supply meets those outlined on page four.

10 amps typical 230 V 50 Hz
16 amps typical 115 V 60 Hz

4. CONTROL PANEL



5. USING THE CONTROL PANEL

The SDD-Master degausser has been carefully engineered for convenience and simplicity of operation. The unit has a number of unique features which are outlined below.

5.1. On/Off Keyswitch

The On/Off Keyswitch is used to power on and power off the SDD-Master Degausser. The key used in the switch is unique to your machine so should be kept safe. If the key is lost, please contact your nearest support department to order a replacement key.

5.2 Power Indicator

Once the unit is powered on, the power indicator will illuminate. This will extinguish when the unit is powered off.

5.3 Start Button

Once you have placed media in the unit, the start button is used to begin the Degauss cycle. The LCD panel will display the progress of the cycle, and its completion is confirmed by the green cycle complete indicator.

5.4 Stop Button, Reset Button and Warning Indicator

Should you need to stop the degauss cycle the unit is fitted with a stop button.

The reset button is used to reset the unit after any user intervention or cycle fail.

The cycle fail red warning indicator will illuminate should the unit detect any problem during the degauss cycle. The user should reset the unit and re-attempt the degauss cycle if this appears.

If the warning indicator lamp continually illuminates indicating repeat failure, you should contact your nearest Verity Systems support department for further assistance.

6.0 OPERATION GUIDE

6.1 Manual Operation

1. Connect the unit to the power supply
2. Activate the power keyswitch, and then press the red power button
3. Once the unit is ready, open the top clear cover, and insert the media to be erased into the caddy.



HDD inserted into caddy ready for erasure

4. Close the cover over the media enclosure, and when you are ready, press the start button. The caddy will automatically proceed into the degausser so that it is perfectly positioned in the magnetic field for erasure. The caddy will automatically rotate between pulses to ensure complete and even erasure.
5. Once the degauss cycle is complete, the caddy will emerge from the body of the unit and park in its stationary position. The green indicator lamp will illuminate. It is now safe to raise the lid and remove the degaussed media.



Media caddy cover in its closed position

6.2 Remote operation

The SDD-master degausser is also fitted with a connector for remote starting. This allows the user to begin the degauss cycle while standing away from the unit.

To utilise the remote start function, connect the remote start button (supplied) to the remote start port on the front of the unit (pictured below). The keypad then replaces the start button on the front of the unit as the method for commencing the degauss cycle.



Remote start connection point – located on front of unit

7. SAFETY RECOMMENDATIONS

It is recommended that people with any form of heart pace-makers or implants etc. avoid close proximity to any equipment of this type without appropriate medical advice.

Operators of the SDD-Master Degausser should ensure they remove any wrist watches prior to using the unit, and that any credit cards or other magnetic devices are placed out of range.

8.0 MAINTENANCE / SERVICING

8.1 Lamp Replacement

To prevent shock hazard, switch off the mains power before replacing lamps. Illuminated lenses on the indicators pull off for lamp replacement.

8.2 Resetting the circuit breaker

The SDD-Master Degasser is not equipped with any on-board fuses that require replacement. All the systems within the unit are protected by the circuit breaker which is located on the rear of the unit – this can be manually reset by the user.

If the unit fails in any way, the user should verify the condition of the circuit breaker prior to contacting support.

PARTS LISTING

Printed Circuit Boards (PCBs)

XX005827	Pulse Degausser Controller PCB
XX005830	High Voltage Resistor Network PCB
XX005831	Capacitor Charge Current Sensor PCB
XX005832	Capacitor Discharge Current Sensor PCB

Looms and Wiring

XX005836	Emitter and Sensor Loom
XX005837	Liquid Crystal Display (LCD) Loom
XX005838	Control Panel and Remote Loom
XX005839	Charge Current Sensor Loom
XX005840	Discharge Current and Temperature Sensor Loom
XX005841	Conveyor Motor Loom
XX005842	Solid State Relay Loom
XX005844	Thyristor Loom
XX005845	6 Volt AC Loom
XX005846	Power Supply Looms (pair)

Switches and Indicators

MP005824	Control Panel for SDD-Master
SW100078	Keyswitch Actuator
SW100124	18x24 Switch Body
SW100121	Yellow Lens
SW100122	Green Lens
SW100123	Red Lens
OI100031	Neon (orange)
OI100047	LED (red) 5V, 30mA
OI100048	LED (green) 5V, 30mA
OI200003	LCD Display

Mechanical Parts

MP005610	Pulse Degauss Coil
TX100070	Transformer – 6VA 2x 0-V 0.5A
PS100114	Universal Input Power Supply
CC100140	Capacitor
FM100166	Motor/Gearbox 24V DC
RS100024	Solid State Relay

The SDD-Master Degausser contains extremely high electrical voltages and currents. For safety reasons, Verity Systems do not recommend the covers be removed by anyone other than trained Verity Systems technicians.

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