



# **TECHNICAL MANUAL**

## **Operating and Maintenance Instructions for**

**V6000 HDD MAX**

**HDD CONVEYOR DEGAUSSER**

# **VERITY SYSTEMS**

## **V6000 HDD MAX DEGAUSSER**

### **OPERATING MANUAL**

**PRODUCTION STANDARD**

**DOCUMENT NO. M000311**

**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 V6000 HDD Max degausser  
Part No ZZ 005 032 and ZZ 005 034  
Part No ZZ 005 033 and ZZ 005 036**

## 1. SPECIFICATION

<b>ERASURE</b>	-70db on 1500 oersted tape
<b>MEDIA</b>	Half height & lap top hard drives
<b>BELT SPEED</b>	2 inches per second
<b>THROUGHPUT</b>	65-70 HDD's / hour typical
<b>DUTY CYCLE</b>	50% (depending on ambient temperature)
<b>WINDOW OPENING</b>	140mm x 25mm
<b>OPERATING VOLTAGE</b>	230V (+5% - 5%) 50Hz 220 (+5% -5%) 60Hz 208 (+5% -5%) 60Hz

### NOTE

**Voltages outside the above tolerances may result in permanent damage to the equipment.**

<b>CURRENT</b>	15 amps typical 230 V 50 Hz 17 amps typical 220 V 60 z 19 amps typical 208 V 60 z
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<b>PROTECTION</b>	Fuse rating: 2 amp Circuit Breaker main power: 25 amp (50Hz) 30 amp (60Hz)
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<b>MOUNTING</b>	Free standing table top
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<b>DIMENSIONS</b>	Height: 19 1/4" (489mm) Width: 31 1/2" (800mm) Depth: 27 1/2" (699mm)
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<b>WEIGHT</b>	75 Kg
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### 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 V6000 HDD MAX CONVEYOR DEGAUSSER

The Verity Systems V6000 HDD MAX degausser has been designed as a high energy magnetic eraser for the sole purpose of erasing standard half height 3 ½ " hard drives. The V6000 HDD MAX is also suitable for data backup tape cartridges.

During the design stage of the V6000 HDD MAX particular consideration was given to user efficiency. Two modes of operation are available, one, continuous operation for maximum throughput limited only by the operating temperature of the degauss coils and two, to maximise the duty cycle intermittent operation by use of an infrared (IR) control pad.

Additional features include constant monitoring of coil performance with a visual indication on the front control panel, plus temperature sensors to monitor the degaussing coils and control the high pressure cooling fans. In the unlikely event of a fault occurring, over current protection is achieved using a fuse for the control of circuitry and a resettable circuit breaker for the degaussing coils. Last, but not least, the V6000 HDD MAX is of rugged mechanical construction using high quality material throughout to ensure years of reliable use.

## 3. INSTALLATION

### 3.1 Unpacking

Remove the four transit bolts from the pallet.

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

### 3.2 Power Wiring

Power connection is made to the V6000 HDD MAX via the heavy duty flying cable at the rear of the unit. The power circuit to the degausser should be rated in accordance with the national and local electrical codes. The V6000 HDD MAX operates from specific supplies. Check for compatibility.

#### ***Caution***

***A good electrical ground must be connected top the degausser. The unit must be connected to the correct power supply. Failure to do so may result in permanent damage.***

### 3.3 Voltage Rating

When the unit is unpacked the voltage and frequency at which the unit is suitable will be seen on a label on the current meter.

#### **Note**

#### **Degausser Current Consumption**

The degaussing coils are powered as part of a tuned resonant circuit. This allows quite high circulating currents to be generated within the degaussing coils, with minimal current consumption from the mains voltage supply. However, this technique requires that the waveform of the supply voltage contains minimal harmonic distortion. A distorted waveform will result in an increase in current consumption. In extreme cases excessive current will trip the circuit breaker, making it necessary to use a mains filter to remove the distortion and reduce the current consumption.

The typical current consumption figures provided in this manual are when powered from a supply with minimal distortion. Any increase in current consumption due to a distorted waveform will have minimal effect on the degausser performance, however, excessive current consumption should be avoided for obvious reasons. In the event of unexplained high currents, please consult your supplier.

## 4. METHOD OF OPERATION

The V6000 HDD MAX degausser has been carefully engineered for convenience and simplicity of operation. The unit has a number of unique features which are outlined below.

### 4.1. Power switch

The power switch is of the rocker type. When the power switch is on, the unit will be in one of two modes selected by the keyswitch. In 'Local' mode with the conveyor belt and degauss coils running, identified by the illuminated degauss indicator. Or in the "Remote" mode with both conveyor belt and degauss coils off.

The media to be erased is fed into the degausser at the right end and exits at the left end.

### 4.2. Method of operation

Connect the equipment to a suitable supply.

#### 4.2.1 Erasure of Hard Disk Drives Locally

Select 'Local' mode with the keyswitch and operate the degausser with the on/off power rocker switch. The degausser will run for approximately 3 minutes on and 3.5 minutes off, consecutively.

#### 4.2.2 Erasure of Hard Disk Drives Remotely

1. Ensure the key is turned 90 degrees clockwise indicating REMOTE operation.
2. With the unit switched on, place the hard disk drive onto the conveyor belt.
3. Point the remote control at the control sensor on the degausser and hold down the large button on the control.
4. The yellow **DEGAUSS** indicator light will illuminate
5. Release the button on the remote control to stop erasure once the hard disk drive(s) have passed through the gauss field.
6. Remove the erased hard disk drive and make the second pass (see note below)
7. Switch off the unit.

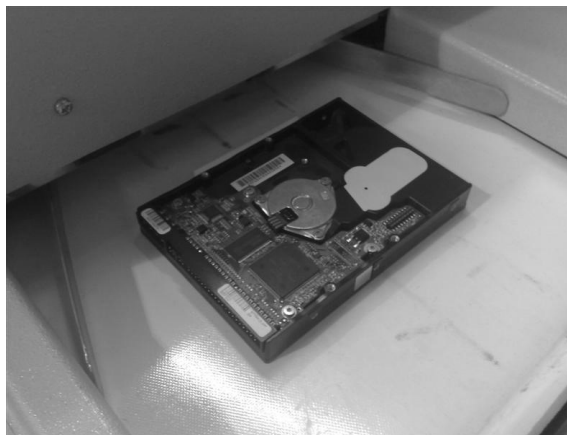
### NOTE

- 1) For both methods of operation it is important for the hard disk drive to make two passes through the degausser.

The first pass should be made with the PCB side of the hard disk drive facing upwards, and the connector blocks pointing in to the degausser. See the image below.



For the second pass, the hard disk drive should be rotated through 90 degrees. Keeping the PCB side facing upwards, and the drive should be placed against one of the conveyor belt guides to prevent the drive moving during the degauss process.



During prolonged continuous operation the unit will eventually overheat. At this stage a red warning indicator on the front panel will illuminate before returning to the standby mode when cooled. Approximately 20 minutes should be allowed before attempting any further erasures.

**Note**

**It is recommended that the degausser be left connected to the mains supply until the cooling fans have switched off.**



## 5. 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.**

## 6. INDICATORS/FEATURES

### 6.1. Panel Indicators

The following indicators are included on the V6000 HDD MAX degausser:

<b>Indicators</b>	<b>Mode</b>
Red warning light on the mains switch:	Power on
Yellow standby light:	Unit in standby mode
Red warning light:	Overheat
Green warning light:	Unit in erase mode
Field meter:	Erase field strength

### 6.2. Thermostatically controlled cooling fan

The high pressure cooling fans are controlled by a thermostatic switch mounted on the degaussing coil. The sensor switches the fan on at a coil temperature of 60 degrees centigrade +/-5 degrees centigrade. The fan, once running, will continue after the degaussing coils are switched off. This is to allow the coils to cool sufficiently.

### 6.3. Overtemperature Sensors

Each of the degaussing coils is monitored for excessive operating temperatures. In such an event the degausser will be automatically switched off until the coils have cooled sufficiently. The V6000 HDD MAX is specified for intermittent operation and if continuous operation is attempted the sensors will be activated after approximately 20 minutes depending on the ambient air temperature.

### 6.4 Over Current Protection

Incorporated in the degausser are two types of over-current protection namely a fuse for the control circuitry including the conveyor motor and a resettable thermal circuit breaker for the degaussing coils.

## **Caution**

**Repeated tripping of the circuit breaker indicates an internal problem. Do not continue to attempt to turn the machine on under such conditions. A catastrophic failure may result.**

### **6.5. Key Switch (Mode Selection)**

The key switch, selects the mode of operation of the degausser either 'Local' or 'Remote'. The key is removable in both positions.

### **6.6 Mains Power failure**

In the event of a reduction in the mains power supply, an audible warning will sound and the V6000 will STOP.

The mains power supply should be checked by an electrical engineer.

### **6.7 Audible Alarm (option)**

In the unlikely event that one or both degauss coils should fail, an audible alarm will sound and the conveyor belt will stop.

## 7.0 MAINTENANCE / SERVICING

### 7.1 Cooling System

The cooling system utilises high pressure fans in order to maximise correct operating periods under extended use. The fans are of the ac brushless type with a life expectancy in excess of 16,000 hours and do not require routine servicing.

### 7.2 Conveyor Belt Drive System

The drive motor is of dc type and drives the conveyor belt via a gear box. The drive system has a long life expectancy and does not require routine servicing.

### 7.3 Conveyor Belt Cleaning

**CAUTION It is recommended that the degausser is disconnected from the mains supply before attempting to clean the belt.**

In order to obtain correct erasure of the media it should be ensured that while passing through the degausser the media is held stationary on the conveyor belt. To this end a belt with a 'sticky' surface is used. However, after extensive use, the belt may become contaminated and allow the media to move whilst being erased. It is therefore recommended that the belt should be cleaned using a mild detergent to ensure correct operation. (A household type spray cleaner is suitable.)

Spray the visible part of the belt with the cleaner and wipe off. Move the belt on and repeat the process until the complete belt is clean.

**CAUTION Only spray the cleaner onto the belt surface, do not soak.**

### 7.4 Conveyor Belt Tensioning and Tracking

Belt adjustment is not a routine activity, however in the following rare cases it may be required:

- a. Belt ceases to move.
- b. Belt moves intermittently

In both examples of mistracking above a gap is usually seen between one edge of the belt and the product guiding area of the cover.

The above conditions must not persist, otherwise permanent damage to the belt and drive mechanism may occur.

For further instructions on belt tensioning see Section 8.9.

## 7.5 Lamp Replacement

To prevent shock hazard, switch off the mains power before replacing lamps. Illuminated lenses on the indicators pull off for lamp replacement. Only one type of lamp (28v) is used.

## 7.6 Fuse Replacement

The equipment is protected by a fuse and a circuit breaker which are located at the rear of the unit.

### **Note**

***Electrically isolate the degausser before replacing fuse.***

The fuse holder contains a 2 amp quick blow fuse. To replace it rotate the cap in an anti-clockwise direction and remove cap and fuse. Renew the fuse and replace the cap into the holder and tighten in a clockwise direction. To reset the circuit breaker simply press the button until it latches in.

## 8.0. SERVICE PROCEDURES

The V6000 HDD MAX has been engineered to allow components to be replaced quickly and efficiently. However, there are inevitably one or two items requiring detailed instructions to assist in their efficient replacement or adjustment should they become faulty. These items are:

- a. Conveyor drive motor
- b. Magnet box
- c. Conveyor belt
- d. Fan
- e. Solid state relay

Apart from these items the remaining components may be readily replaced. However the following notes should be adhered to:

### **Notes**

1. Locking compound should be used on screws and nuts during reassembly.
2. Thermal conductive grease should be used when fitting the bridge rectifier D1 or the solid state relay RL1.

## 8.1. Cover Removal (CAUTION - LIVE MAINS VOLTAGE IS EXPOSED WITH MAIN COVER REMOVED)

1. Disconnect the degausser from the mains power supply.
2. Remove the 9 screws securing the cover to the base of the unit and lift off the cover vertically, taking care not to damage the wires leading to the controls and indicators, lay the cover down by the side of the unit.
3. Should it be necessary to completely remove the cover disconnect the wires from the field meter and mains on / off switch ( making note of wire positions ).

Unplug the warning light and keyswitch connector block.

## 8.2. Conveyor Drive Motor Replacement

1. Remove the cover.
2. Disconnect red and blue drive motor wires from the terminal block.
3. Slacken the two bolts securing the lower right hand conveyor belt roller and reduce the belt tension.
4. Remove the geared belt roller and move the belt to give access to the drive motor gear.
5. Apply heat to the brass gear on the drive motor. (By the use of a hot air gun) brake the locking compound and pull off the brass gear.
6. Remove the three screws securing the motor/gear box, remove motor/gear box. Note the position of any spacing washers.
7. Fit the new motor/gear box, and tighten screws.
8. Fit the brass gear on motor shaft using locking compound Loctite 601 allow to set. The brass gear should be positioned on the motor/gearbox shaft for correct engagement with the roller gear.
9. Re-fit the drive roller, tighten bolts.
10. Re-tension the conveyor belt and check the tracking.

**Note** *Do not overtighten the belt. Tension is only required to take up any slack in the belt.*

## 8.3. Upper Magnet Box Removal

1. Remove the cover.
2. Remove fan assembly wires.
3. Remove the four coil connecting wires from the terminal block making note of their position.
4. Remove the two spade connectors from the coil temperature sensor.
5. Remove the earth strap.
6. Remove the four nuts securing the magnet box to the rubber vibration mountings and lift off the magnet box.
7. To fit the magnet box reverse the above procedure.

## 8.4. Lower Magnet Box Removal

1. Repeat steps 8.3.1. to 8.3.6.
2. Remove the four coil connecting wires from the terminal block, making note of their positions.
3. Remove the four spade connectors from the coil temperature sensors. Cut any cable ties and pull back the cables.
4. Remove the earth strap.
5. Remove the two brass extension and the two plain nuts securing the magnet box to the rubber vibration mountings.
6. Slacken off the two screws securing the bottom right hand roller and slacken off the conveyor belt.
7. Lift up the conveyor belt and slide out the magnet box through conveyor belt.
8. If a new magnet box is to be fitted, remove the rubber vibration mountings and product guides and fit to the new magnet box.
9. To refit the magnet box reverse the above procedure.

## **8.5. Conveyor Belt Replacement**

The unit is supplied from the factory with an endless belt. Replacements are supplied with a join as this is much easier and simpler to fit.

1. Remove the cover.
2. Slacken the lower right hand roller and release the belt tension.
3. If there is an endless belt fitted to the unit this must be cut with a sharp knife or scissors but care should be taken not to let the belt slide off the unit.
4. Using a strong tape attach the end of the new jointed belt to the end of the old belt where it is cut, then gradually feed the new belt through the unit by pulling on the old belt.
5. When the two ends of the new belt are adjacent, thread in the joint pin until its ends are protruding from either side of the belt and the pin is centrally located on the joint.
6. The belt should now be adjusted as described in Section 8.9.

## **8.7. Fan Assembly Removal**

1. Remove the cover.
2. Disconnect the fan power leads from the terminal block.
3. Remove the four nuts and screws securing the fan motor assembly to the magnet box end plate. Break the silastic seal and remove the fan.
4. The replacement fan assembly is fitted in reverse order.

**Note** Use sealant type EA 100 007 around the mating faces of the fan assembly when re-fitting.

### **8.8. Solid State Relay (SSR) replacement**

1. Remove the cover.
2. Remove the right hand bottom conveyor belt roller.
3. Remove the lower fan assembly.
4. Remove the cables from SSR. noting their positions.
5. Remove the SSR securing nuts and screws and remove the SSR.
6. Replacement of SSR is the reversal of the above procedure.

**Note** Use thermal grease type EA 100 002 under the replacement SSR.

### **8.9. Conveyor belt tensioning**

As the belt stretches from general wear and tear retracking may be required, ie to set the conveyor rollers so that the conveyor belt runs over the centre of the rollers without excessive loading or damage to the edge of the belt. Tracking of the belt is achieved by adjusting the lower right hand roller. The roller is secured by bolts in slots in the degausser chassis and by moving one end of the roller, either slackening or tightening the correct running position of the belt may be achieved. It is recommended that the degausser is allowed to run for a few minutes to ensure that correct tracking has been achieved.

1. Remove the cover and place it down alongside the degausser.
2. Reconnect power to the degausser.
3. Run the degausser and identify where the conveyor belt is running.



4. Slacken one of the fixing screws securing the lower right hand roller and move the end of the roller to position the belt running centrally between the belt guides over the lower magnet box.
5. Tighten the roller belt and run the degausser to check the operation of the belt.
6. Disconnect the degausser from the power supply.
7. Replace the cover.

## 9. BASIC FAULT FINDING TABLE 1

### **Note**

*The table includes possible faults of optional extras. Disregard sections that are not applicable to a particular unit.*

<b>Function</b>	<b>Symptom</b>	<b>Possible Fault</b>	<b>Location</b>
Power Lamp	Fails to illuminate	Loss of mains supply	User source
		Blown bulb	Control panel
		Faulty switch	Control panel
		F1 Fuse Blown	Rear Panel
Standby Indicator	Fails to illuminate	Key switched in Local mode	Front panel
		Faulty bulb	Control panel
		Faulty connector SK1	In line connector from the front panel
		Faulty remote control pcb	Far right hand side
		Faulty dc power supply	Rear right hand side
Erase Indicator	Fails to illuminate but degauss coils energise and conveyor belt running	Faulty bulb	Control panel
		Faulty connection SK1	In line connector from the control panel
		Faulty remote control pcb	far right hand side of degausser

<b>Function</b>	<b>Symptom</b>	<b>Possible Fault</b>	<b>Location</b>
Cooling fans	Fails to operate	Faulty fan motor/s	Fans are mounted on the rear of the magnet assemblies
		Faulty degaussing coil temperature sensor SW2	Lower magnet assembly
Conveyor Belt	Fails to run but erase indicator illuminated	Conveyor motor faulty	Front left hand side of degausser
Conveyor Belt	Fails to run -	Faulty power supply	Front right hand side of degausser.
Coil assemblies	Both upper and lower coils not energised	Degaussing coils overheating due to faulty fan	Fans are mounted on the rear of the magnet assemblies
		Operating in high ambient temperature	Relocate to reduce ambient temperature

<b>Function</b>	<b>Symptom</b>	<b>Possible Fault</b>	<b>Location</b>
Field Meter	Fails to operate	Tripped circuit breaker CB1	At the rear of the degausser adjacent to the input power cable
		Faulty relay RL1	Mounted on the rear chassis member under lower fan
		Faulty remote control pcb	Far right hand side of degausser
		Faulty meter	Control panel
Circuit breaker CB1	Repeatedly trips	Badly distorted mains supply waveform	User source
		Faulty tuning capacitors	At each end of the degausser under the conveyor belt
		Faulty coil/s	Centre of the degausser
Fuse FS1	Repeatedly blows	Faulty dc power supply	Front right handside of degausser
		Faulty conveyor motor	Front left handside of degausser

**Note**

## **Degausser Current Consumption**

The degaussing coils are powered as part of a tuned resonant circuit. This allows quite high circulating currents to be generated within the degaussing coils, with minimal current consumption from the mains voltage supply. However, this technique requires that the waveform of the supply voltage contains minimal harmonic distortion. A distorted waveform will result in an increase in current consumption.

The typical current consumption figures provided in this manual are when powered from a supply with minimal distortion. Any increase in current consumption due to a distorted waveform will have minimal effect on the degausser performance, however, excessive current consumption should be avoided for obvious reasons. In the event of unexplained high currents, please consult your supplier.

## TABLE 2 CURRENT MONITOR POINTS

The following table contains typical current values to be measured at specific points in the equipment.

The values given are in amperes and may differ slightly from those actually measured due to component tolerance plus effects due to operating temperature

### Current Monitor Test Points (refer to circuit diagram)

<b>Model Voltage/Frequency</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
230v 50Hz	16	1.3	0.1	14.6	46
220v 60Hz	17	1.3	0.1	15.6	62
208v 60Hz	19	1.3	0.1	17.6	62

## 10. RECOMMENDED SPARES LIST

<b>Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Designation</b>
RS 100 018	Solid State Relay	1	RL1
FF 100 022	Fuse 2 Amp	10	FS1
SD 100 010	Bridge Rectifier	1	D1
OI 100 011	28v Bulb	10	I2 - I4

## 6000 DEGAUSSER 230v 50Hz

### PARTS LIST

Part No.	Description	Qty	Designation
CA 100 001	Cable Gland 20mm	1	
CC 100 002	Capacitor 200µf	6	C1-C7
CC 100 035	Capacitor 2200µf	1	C9
CC 200 005	Capacitor clip	1	
CG 200 001	Terminal block	10	TB2 and 3
CG 200 002	End cover	2	TB2 and 3
CG 200 003	Jump bar	1	TB2 and 3
CG 200 004	Terminal Rail	1	
CM 100 024	Terminal block	1	TB1
CM 100 025	Terminal block 20A 12 way	1	
CM 100 500	Cable shell	1	SK1
CM 100 501	Chassis shell	1	PL1
CM 100 502	Pin	10	PL1
CM 100 503	Sockets	10	SK1
FF 100 022	Fuse 2A	1	FS1
FF 200 006	Fuse holder	1	
FM 100 001	Guard 120mm	6	
FM 100 040	Motor/gearbox 24v	1	M1
FM 100 041	Fan	2	F1 and F2
HS 100 126	Vibration Mount (Lower)	4	
HS 100 127	Vibration Mount (Upper)	4	
MP 000 527	Spur gear conveyor	1	
MP 000 631	Base bracket	9	
MP 005 267	Case	1	
MP 001 008	Case base	1	
MP 001 009	Chassis member	2	
MP 001 011	Roller bracket	2	
MP 005 199	Belt	2	
MP 001 016	Foot	4	
MP 001 021	Magnet housing upper	1	
MP 001 024	Bottom bracket (front)	1	
MP 001 026	Top bracket	2	
MP 001 027	Side plate (front)	3	
MP 005 172	HDD guide RH	1	
MP 001 029	Magnet Housing cover	2	
MP 001 081	Magnet housing lower	1	
MP 001 103	Air deflector	2	
MP 001 104	Air dam	2	
MP 001 106	Rubber foot mount	4	



<b>Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Designation</b>
MP 001 110	Support post	4	
MP 001 115	Label - control panel	1	
MP 005 171	HDD guide LH	1	
MP 001 319	Sensor plate	1	
MP 001 123	Mains Supply Bracket	1	
MP 001 390	Bump Stop	2	
MP 002 100	Label 'Verity Systems'	1	
MP 005 103	Top bracket (Extended)	1	
MP 005 130	Finishing Strip	2	
OI 100 011	Bulb	3	I2, I3, I4
RS 100 021	Relay	1	RL1
SD 100 010	Bridge rectifier	1	D1
SP 100 005	Temp sensor 120 deg	2	SW4 and SW5
SW 100 013	Thermal switch	1	SW2
SW 100 040	Indicator	3	I2, I3, I4
SW 100 042	Diffuser	3	I2, I3, I4
SW 100 043	Lens red	1	I3
SW 100 044	Lens yellow	1	I4
SW 100 045	Lens green	1	I2
SW 100 050	Circuit Breaker 25A	1	CB1
SW 100 070	Key switch	1	SW3
SW 100 046	Rocker switch illum	1	SW1
TX 100 015	Transformer	1	TX1
MP 001 029	Magnet housing cover	2	
XX 005 266	Pcb assembly remote control	1	Pcb1
XX 001 773	Driven roller assembly	3	
XX 001 774	Drive roller assembly	1	
XX 001 886	Meter	1	I1
XX 005 471	Coil/Stack Assy Bottom	1	L2
XX 005 470	Coil/Stack Assy Top	1	L1
MP 005 388	IR Pc6 bracket	1	
XX 005 218	ID Transmitter	1	
XX 005 219	IR Receiver Pcb	1	
FM 300 000	Audible Alarm	1	(option)

## 6000 DEGAUSSER 208v 60Hz

### PARTS LIST

Part No.	Description	Qty	Designation
CA 100 001	Cable Gland 20mm	1	
CC 100 001	Capacitor 100µf	2	C4 and C5
CC 100 002	Capacitor 200µf	6	C1-C7
CC 100 035	Capacitor 2200µf	1	C9
CC 200 005	Capacitor clip	1	
CG 200 001	Terminal block	10	TB2 and 3
CG 200 002	End cover	2	TB2 and 3
CG 200 003	Jump bar	1	TB2 and 3
CG 200 004	Terminal Rail	1	
CM 100 024	Terminal block	1	TB1
CM 100 025	Terminal block 20A 12 way	1	
CM 100 500	Cable shell	1	SK1
CM 100 501	Chassis shell	1	PL1
CM 100 502	Pin	10	PL1
CM 100 503	Sockets	10	SK1
FF 100 022	Fuse 2A	1	FS1
FF 200 006	Fuse holder	1	
FM 100 001	Guard 120mm	6	
FM 100 040	Motor/gearbox 24v	1	M1
FM 100 041	Fan	2	F1 and F2
HS 100 126	Vibration Mount (Lower)	4	
HS 100 127	Vibration Mount (Upper)	4	
MP 000 527	Spur gear conveyor	1	
MP 000 631	Base bracket	9	
MP 005 267	Case	1	
MP 001 008	Case base	1	
MP 001 009	Chassis member	2	
MP 001 011	Roller bracket	2	
MP 005 199	Belt	2	
MP 001 016	Foot	4	
MP 001 021	Magnet housing upper	1	
MP 001 024	Bottom bracket (front)	1	
MP 001 026	Top bracket	2	
MP 001 027	Side plate (front)	3	
MP 005 172	HDD guide RH	1	
MP 001 029	Magnet Housing cover	2	
MP 001 081	Magnet housing lower	1	
MP 001 103	Air deflector	2	
MP 001 104	Air dam	2	
MP 001 106	Rubber foot mount	4	

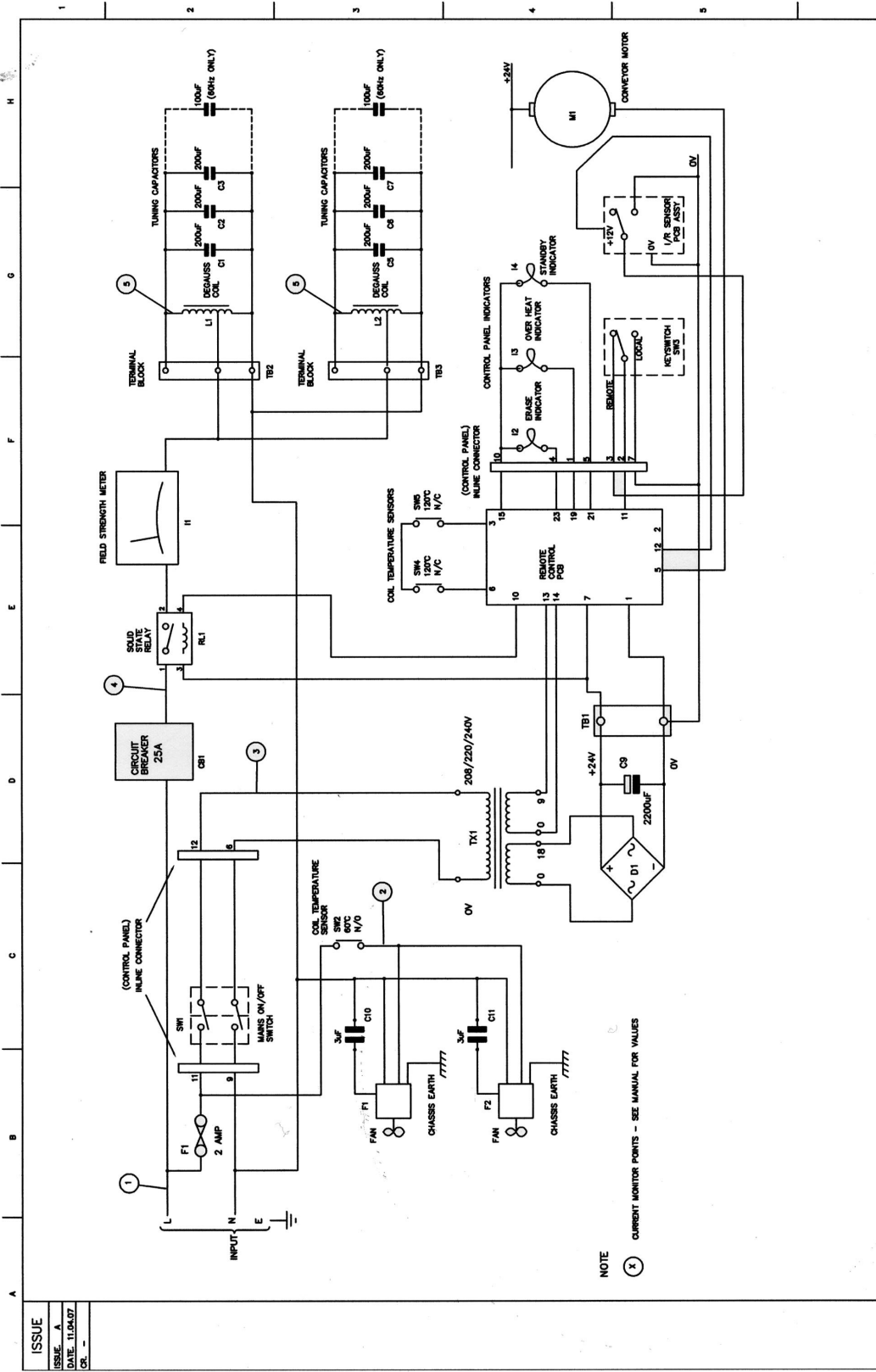
<b>Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Designation</b>
MP 001 110	Support post	4	
MP 001 115	Label - control panel	1	
MP 005 171	HDD guide LH	1	
MP 001 319	Sensor plate	1	
MP 001 123	Mains Supply Bracket	1	
MP 001 390	Bump Stop	2	
MP 002 100	Label 'Verity Systems'	1	
MP 005 103	Top bracket (Extended)	1	
MP 005 130	Finishing Strip	2	
OI 100 011	Bulb	3	I2, I3, I4
RS 100 021	Relay	1	RL1
SD 100 010	Bridge rectifier	1	D1
SP 100 005	Temp sensor 120 deg	2	SW4 and SW5
SW 100 013	Thermal switch	1	SW2
SW 100 040	Indicator	3	I2, I3, I4
SW 100 042	Diffuser	3	I2, I3, I4
SW 100 043	Lens red	1	I3
SW 100 044	Lens yellow	1	I4
SW 100 045	Lens green	1	I2
SW 100 050	Circuit Breaker 25A	1	CB1
SW 100 070	Key switch	1	SW3
SW 100 046	Rocker switch illum	1	SW1
TX 100 015	Transformer	1	TX1
MP 001 029	Magnet housing cover	2	
XX 005 266	Pcb assembly remote control	1	Pcb1
XX 001 773	Driven roller assembly	3	
XX 001 774	Drive roller assembly	1	
XX 001 886	Meter	1	I1
XX 005 482	/Stack Assy Bottom	1	L2
XX 005 486	/Stack Assy Top	1	L1
MP 005 388	IR Pc6 bracket	1	
XX 005 218	ID Transmitter	1	
XX 005 219	IR Receiver Pcb	1	

### 6000 DEGAUSSER 22060Hz

## PARTS LIST

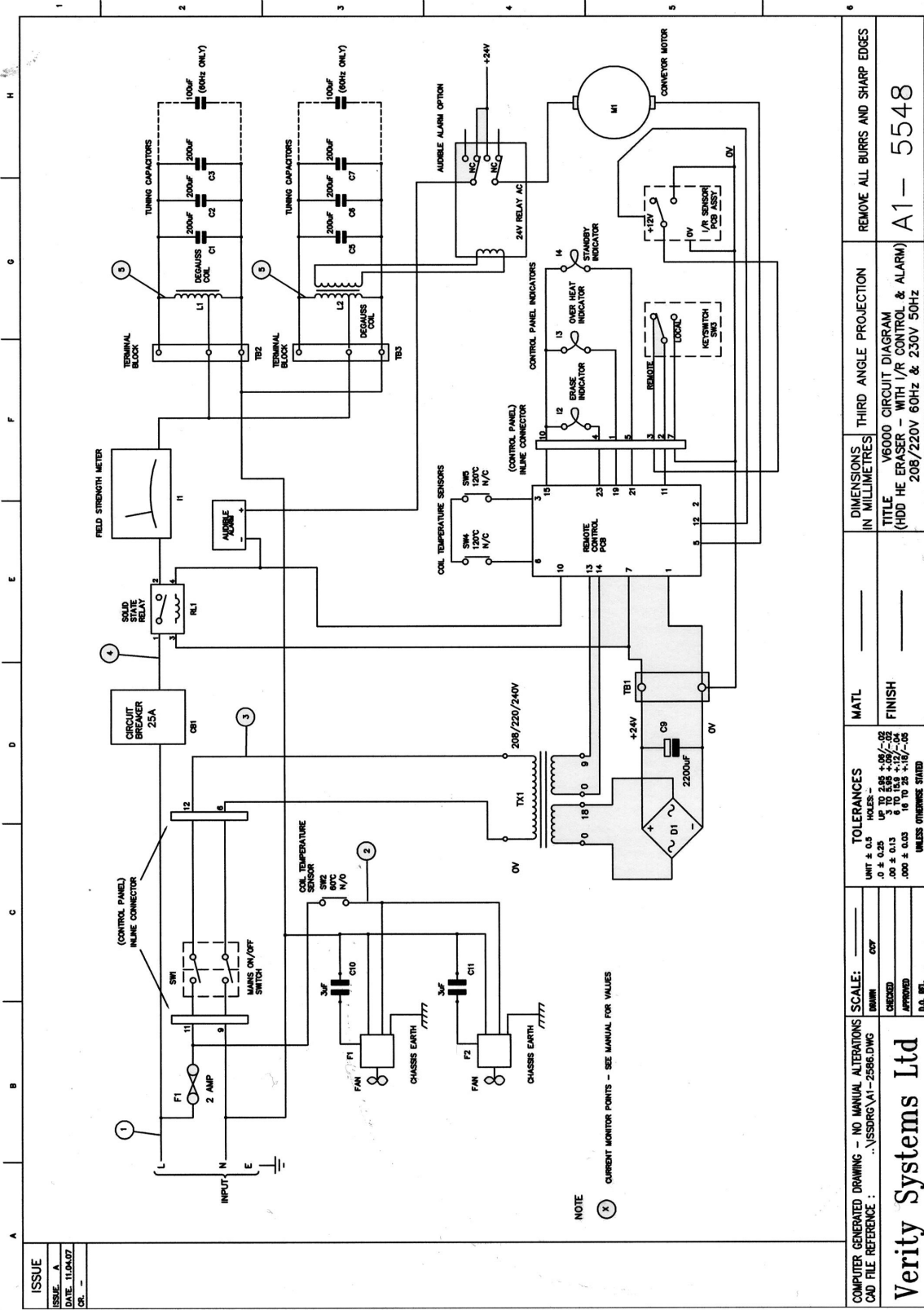
<b>Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Designation</b>
CA 100 001	Cable Gland 20mm	1	
CC 100 001	Capacitor 100µf	2	C4 and C5
CC 100 002	Capacitor 200µf	6	C1-C7
CC 100 035	Capacitor 2200µf	1	C9
CC 200 005	Capacitor clip	1	
CG 200 001	Terminal block	10	TB2 and 3
CG 200 002	End cover	2	TB2 and 3
CG 200 003	Jump bar	1	TB2 and 3
CG 200 004	Terminal Rail	1	
CM 100 024	Terminal block	1	TB1
CM 100 025	Terminal block 20A 12 way	1	
CM 100 500	Cable shell	1	SK1
CM 100 501	Chassis shell	1	PL1
CM 100 502	Pin	10	PL1
CM 100 503	Sockets	10	SK1
FF 100 022	Fuse 2A	1	FS1
FF 200 006	Fuse holder	1	
FM 100 001	Guard 120mm	6	
FM 100 040	Motor/gearbox 24v	1	M1
FM 100 041	Fan	2	F1 and F2
HS 100 126	Vibration Mount (Lower)	4	
HS 100 127	Vibration Mount (Upper)	4	
MP 000 527	Spur gear conveyor	1	
MP 000 631	Base bracket	9	
MP 005 267	Case	1	
MP 001 008	Case base	1	
MP 001 009	Chassis member	2	
MP 001 011	Roller bracket	2	
MP 005 199	Belt	2	
MP 001 016	Foot	4	
MP 001 021	Magnet housing upper	1	
MP 001 024	Bottom bracket (front)	1	
MP 001 026	Top bracket	2	
MP 001 027	Side plate (front)	3	
MP 005 172	HDD guide RH	1	
MP 001 029	Magnet Housing cover	2	
MP 001 081	Magnet housing lower	1	
MP 001 103	Air deflector	2	
MP 001 104	Air dam	2	
MP 001 106	Rubber foot mount	4	

<b>Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Designation</b>
MP 001 110	Support post	4	
MP 001 115	Label - control panel	1	
MP 005 171	HDD guide LH	1	
MP 001 319	Sensor plate	1	
MP 001 123	Mains Supply Bracket	1	
MP 001 390	Bump Stop	2	
MP 002 100	Label 'Verity Systems'	1	
MP 005 103	Top bracket (Extended)	1	
MP 005 130	Finishing Strip	2	
OI 100 011	Bulb	3	I2, I3, I4
RS 100 021	Relay	1	RL1
SD 100 010	Bridge rectifier	1	D1
SP 100 005	Temp sensor 120 deg	2	SW4 and SW5
SW 100 013	Thermal switch	1	SW2
SW 100 040	Indicator	3	I2, I3, I4
SW 100 042	Diffuser	3	I2, I3, I4
SW 100 043	Lens red	1	I3
SW 100 044	Lens yellow	1	I4
SW 100 045	Lens green	1	I2
SW 100 050	Circuit Breaker 25A	1	CB1
SW 100 070	Key switch	1	SW3
SW 100 046	Rocker switch illum	1	SW1
TX 100 015	Transformer	1	TX1
MP 001 029	Magnet housing cover	2	
XX 005 266	Pcb assembly remote control	1	Pcb1
XX 001 773	Driven roller assembly	3	
XX 001 774	Drive roller assembly	1	
XX 001 886	Meter	1	I1
XX 005 483	Coil/Stack Assy Bottom	1	L2
XX 005 487	Coil/Stack Assy Top	1	L1
MP 005 388	IR Pc6 bracket	1	
XX 005 218	ID Transmitter	1	
XX 005 219	IR Receiver Pcb	1	



ISSUE	
ISSUE - A	
DATE - 11.04.07	
DR -	

COMPUTER GENERATED DRAWING - NO MANUAL ALTERATIONS CAD FILE REFERENCE : ..\ISSDRG\A1-2596.DWG	SCALE: _____ DRAWN: COT CHECKED: _____ APPROVED: _____ D.A. REL.	TOLERANCES UNIT ± 0.5 HOLE - J0 ± 0.25 UP TO 25 ± 0.1/-0.02 J0 ± 0.15 25 TO 100 ± 0.1/-0.04 J00 ± 0.10 100 TO 250 ± 0.1/-0.04 J00 ± 0.05 250 TO 500 ± 0.1/-0.04 UNLESS OTHERWISE STATED	MATL _____ FINISH _____	DIMENSIONS IN MILLIMETRES	THIRD ANGLE PROJECTION	REMOVE ALL BURRS AND SHARP EDGES
Verity Systems Ltd				TITLE V6000 CIRCUIT DIAGRAM (HDD HE ERASER - WITH I/R CONTROL) 208/220V 60Hz & 230V 50Hz		A1- 5547



ISSUE	SCALE:	COMPUTER GENERATED DRAWING - NO MANUAL ALTERATIONS	DIMENSIONS	THIRD ANGLE PROJECTION	REMOVE ALL BURRS AND SHARP EDGES
ISSUE A	1:1	.. \SSDRG\A1-2586.DWG	IN MILLIMETRES		
DATE 11.04.07	CHECKED	.. \SSDRG\A1-2586.DWG		TITLE	V6000 CIRCUIT DIAGRAM
DR -	APPROVED	.. \SSDRG\A1-2586.DWG			(HDD HE ERASER - WITH I/R CONTROL & ALARM)
	D.A. DEL.				A1- 5548

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