

**Sponge-Jet® Sponge Blasting System™**

# **Sponge-Jet Media Recycler™ User Manual**

**Model:**

**25P**

**25P-CE**



**Headquarters/Manufactured By:**

**Sponge-Jet, Inc. (USA)**

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**IMPORTANT NOTE:** While parts, systems, components, operational procedures may be the same between equipment models, the images provided in this manual may vary from model to model.

This manual represents the following models and their approximate working capacity:

Model:

25P

25P-CE

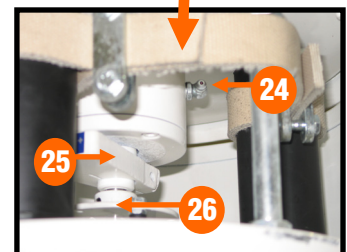
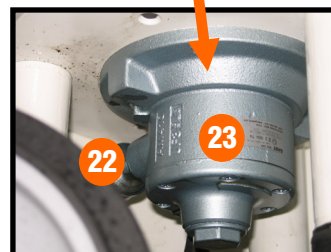
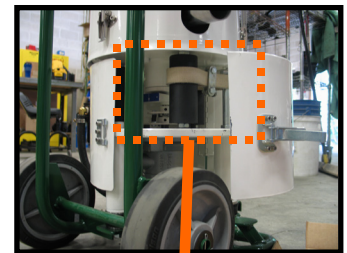
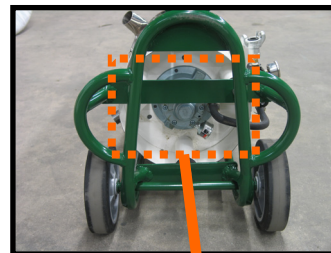
English Language is Original Instructions.

Translated from Original Instructions.

# 1.0 Introduction

## Basic Components

1. Hopper
2. Main Rim Sieve Assembly
3. Vibratory Section
4. Safety Skirt
5. Skirt Clamp
6. Large Particle Downspout
7. Pan Clamp Hook
8. Pan Clamp
9. Fine Particle Downspout
10. Vibration Mounts
11. Upper Rasp™ Xtreme Bracket
12. Lower Rasp™ Xtreme Bracket
13. Lifting Eyes
14. Frame
15. Reusable Media Downspout
16. Pressure Gauge
17. Supply Line Connection
18. Regulator/Air Filter
19. Lubricator
20. Air Motor Hose
21. Air Adjustment Valve
22. Muffler
23. Motor
24. Grease Point
25. Counter Weight
26. Coupling



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# 2.0 Safety Checklist

- This unit is a pressurized system. Only trained operators should adjust, maintain and repair this equipment.
- Inbound pressure should never exceed 8.6bar (125psi).
- All pneumatic lines should be inspected for holes, wear and proper fit.
- Safety pins and restraints should be fitted at all Air Hose couplings to prevent accidental disconnection.
- Vibrating parts should **never** come in contact with static or stationary items.
- Verify the unit is stable, secure and on a flat surface.
- Do not operate without the safety skirt in place.
- Before all activities (other than normal operation), ensure the entire system is depressurized.

**IMPORTANT:** Under **NO** circumstances should any inspection, adjustment or lubrication be conducted while running or connected to an air supply.



## RASP Xtreme™ (Riding) Team Lock-and-Roll Instructions

This unit works with RASP Xtreme Feed™ Unit as a mobile blasting and recycling system - RASP Xtreme (Riding) Team. Transportation and storage are enhanced with its lock-and-roll system, as the two units are connected for maneuvering and storage in space-limited environments.

**WARNING:** The lock-and-roll system should be used only during storage and manual rolling - not during operation or lifting. **DO NOT** operate the system when the lock-and-roll system is engaged.

### 2.1 Air Supply/Compressor

Wheel RASP Xtreme onto **Lower RASP Xtreme Bracket**



Lift or raise RASP Xtreme Handle over **Upper RASP Xtreme Bracket**; tighten by moving the lever to locking position.



# 3.0 Requirements

## 3.1 Air Supply/Compressor

Clean, dry compressed air must be supplied. This unit requires a minimum air supply of **.6m<sup>3</sup>/min (21cfm) at 1.4bar (20psi)**.

## 3.2 Air Supply Connection

This unit has a 12.7mm (.5in) standard pipe typically fitted with a 9.5mm (.375in) universal 2 lug coupling. The air supply hose should be fitted with a mating connector - or replace both connectors as desired.

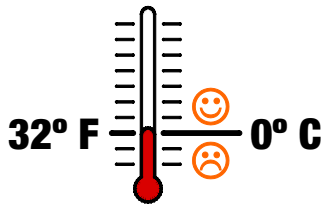


Connect a minimum 12.7mm (.5in) supply hose to **Supply Line Connection**.  
**Note:** High-humidity environments require additional moisture separators.

## 3.3 Ambient Temperature

Ambient temperature should be above 0° Celsius (32° Fahrenheit). Otherwise:

- a) Use winter grade pneumatic tool oil in lubricator.
- b) Minimize moisture in supply air.
- c) Bearing grease will thicken in cold environments, requiring use of low temperature grease. Warming the unit prior to operation may be required.



## 3.4 Media Waste & Collection

Containers are necessary under each downspout for collection and transporting Sponge Media™ and waste.



# 4.0 Operation

## Before Recycler Pressurization and Operation:

- Vibrating parts should **never** come in contact with static or stationary items.
- Verify the unit is stable, secure and on a flat surface.
- All pneumatic lines should be inspected for holes, wear and proper fit.
- Safety pins and restraints should be fitted at all Air Hose couplings to prevent accidental disconnection.
- Before all activities (other than normal operation), ensure the entire system is depressurized.

Make sure vibrating section is unrestricted. Rigid connections reduce efficiency and can lead to damage.



Check **Pan Clamps** for tightness. They should not exceed 6.8kg (15lbs) each at the end of the lever handle. Adjust by turning **Pan Clamp Hook**.



Connect air supply hose to the **Supply Line Connection** and secure with safety pins and restraints. **Note:** Regulators are factory set between 1.4-1.7bar (20-25psi) and should not require adjustment.



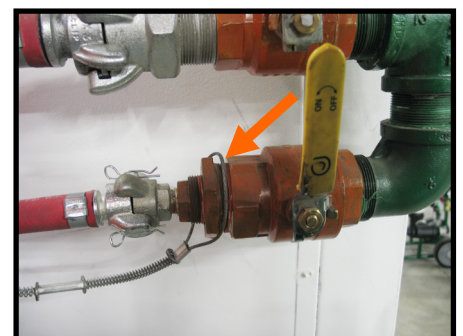
Confirm pneumatic tool oil is visible in **Lubricator** (see section 5.0).



Place buckets/bags under each **Particle Downspout**.



Turn on by opening nearest air supply valve.





Operate **Air Adjustment Valve** by pulling up and rotating knob so pressure gauge reads 1.4-1.7bar (20-25psi).



Add blasted Sponge Media through **Hopper**.



Oversized particles are ejected from **Large Particle Downspout**.

**WASTE: Dispose of Properly** →



Recyclable Sponge Media is ejected from **Reusable Media Downspout**.

**RECYCLABLE MEDIA: To create working mix, add 5% to 10% new Sponge Media; this mixture is now ready to blast.** →



Smaller contaminants and spent Sponge Media are ejected from **Fine Particle Downspout**.

**WASTE: Dispose of Properly** →



**Important:** Determining acceptable dust levels is dependant upon the project environment. If lower dust levels are required, pass recycled Sponge Media through **Hopper** one or more additional cycles.

# 5.0 Maintenance

**IMPORTANT:** Under **NO** circumstances should any inspection, adjustment or lubrication be conducted while running or connected to an air supply.

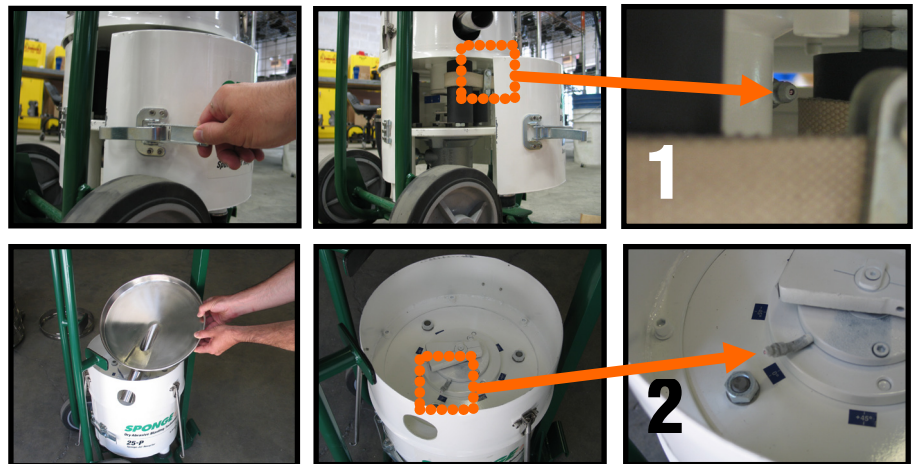
## 5.1 Bearing Grease

This unit was greased before shipment. Add grease using a half pump (or small amount) every 500 hours of operation. If the unit has not been used for one year, add 1/2 to one pump of grease. Use quality NLGI #2 grease such as:

- Citco AP, Citco oil
- Ore-Lube K2
- Mobilux, Mobil Oil Co.
- Socony, Mobil Oil Co.
- Val-Lith #IP, Valvoline Co.
- VS SGA, MM Industries, Inc.
- Multifak #2, Texaco Inc.
- Alvanie R#, Shell Oil Co.

## 5.2 Access to Grease Fittings

The two bearings should be greased by fittings on the side of the machine.



**DO NOT OVERGREASE.**

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## 5.3 The Lubricator

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Check the pneumatic oil level in **Lubricator**.



Refill with pneumatic tool oil as required. Use only **SAE 5W (ISO 32) NON-DETERGENT OIL**



## Main Rim Sieve Assembly

**NOTE:** Failure to properly assemble and fasten assembly will dramatically shorten its operating life.

Assemble as follows:



1. Place **Fine Particle Downspout** through hole provided in **Vibratory Section**. **Note:** Be sure downspout is centered.
2. Place **Spacer Rim** with notch facing the opposite side.
3. Place **Lower Fine Screen Downspout**.
4. Place **Funnel Rim** (note alignment as shown).
5. Place **Upper Coarse Screen Downspout**.
6. Place **Hopper**.
7. Attach all **Pan Clamps**. These must be adjusted properly to secure **Sieve Assembly** (refer to 4.0 Operation).

\*Top Screen standard size is #3; Bottom Screen standard size is #16 unless other sizes are specified or provided.

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# 6.0 Troubleshooting

<b>Unit won't turn on or vibration is slow</b>	Confirm <b>Pressure Gauge</b> reads 1.4-1.7bar (20-25psi). <b>If unit temperature is</b> near freezing or below, a) Warming the unit prior to operation may be required. b) Use winter grade pneumatic tool oil in lubricator. c) Minimize moisture in supply air. <b>If vibration is slow but unit is operating,</b> run without Sponge Media until vibration normalizes.
<b>When Blasting, excessive amounts of dust are observed</b>	Additional dust reduction can be achieved by ... 1. Passing Sponge Media through unit again. 2. Replacing the <b>Lower Fine Screen Downspout</b> with larger wire spacing.

# 7.0 Drawings

ITEM	QTY.	DESCRIPTION
1	1	25-P RECYCLER UNIT ASSEMBLY (SEE DRAWING 9P)
2	1	25-P CART FRAME WELDMENT
3	2	PERFORMA RUBBER WHEEL
4	1	UPPER M45P XTREME BRACKET (SEE DRAWING C7)
5	2	RUBBER PAD
6	2	3/32" COTTER PIN

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 FINISH: POLISHED  
 TOLERANCES: ±0.005"  
 SURFACE FINISH: 320  
 MATERIAL: ALUMINUM 6061-T6  
 WELDING: TIG WELD  
 COMMENTS: NONE

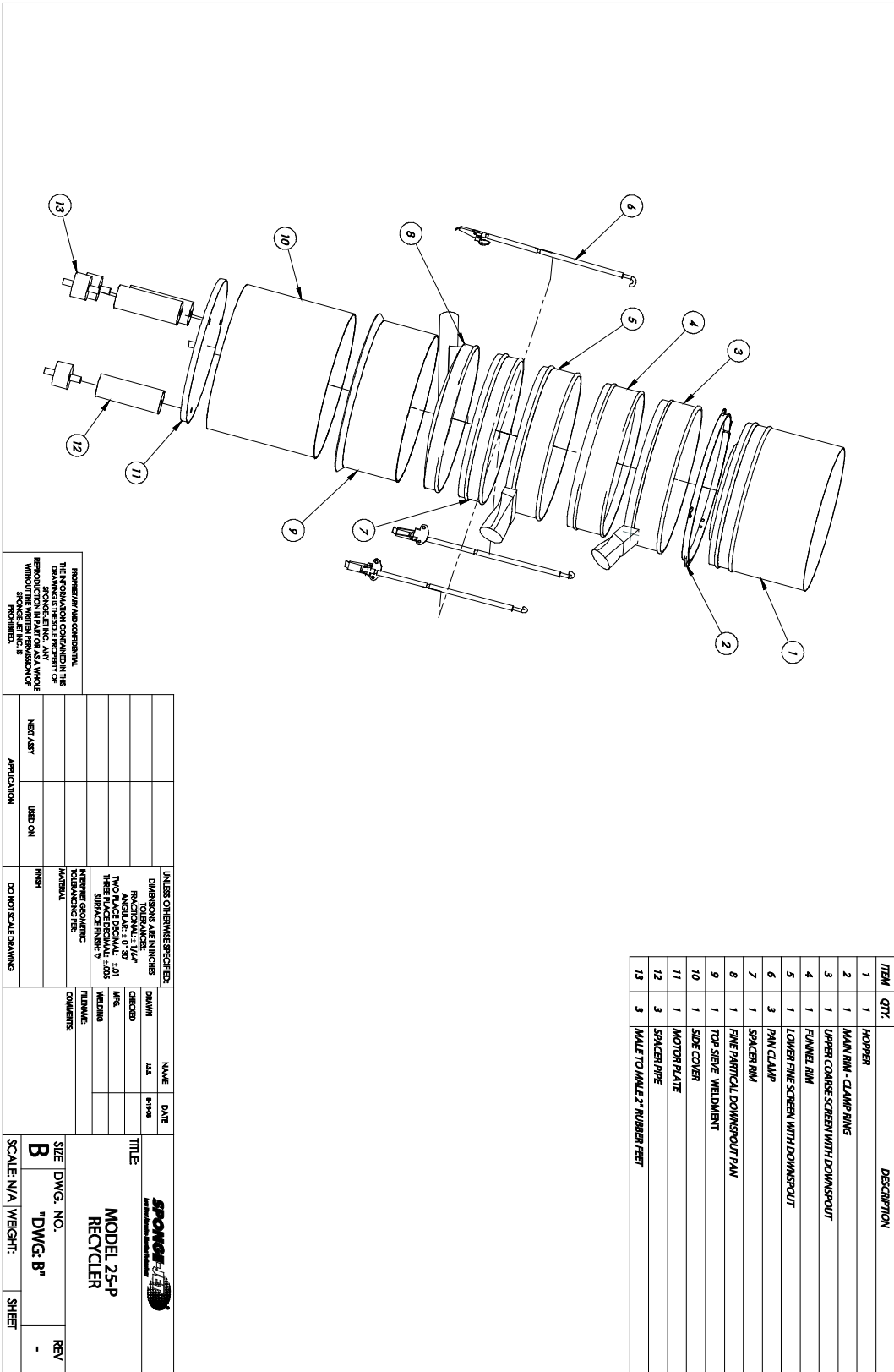
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 CHECKED BY: \_\_\_\_\_  
 TITLE: **MODEL 25-P ASSEMBLY**

SCALE: N/A | WEIGHT: \_\_\_\_\_ | SHEET: \_\_\_\_\_

REVISIONS:  
 REV: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

APPROVALS:  
 DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

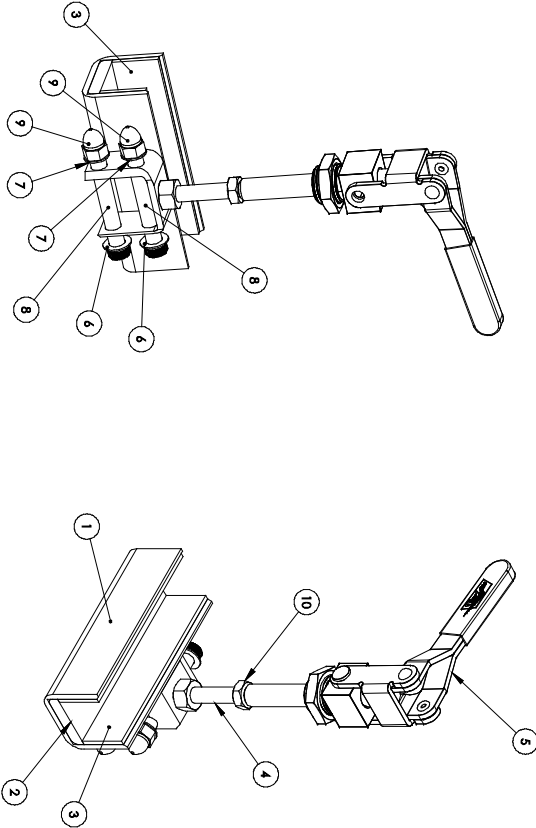
NOTES:  
 1. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPONGE-JET. IT IS TO BE USED FOR THE MANUFACTURE OF THE PRODUCT DESCRIBED HEREIN ONLY. WITHOUT THE WRITTEN PERMISSION OF SPONGE-JET, THIS DRAWING IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



ITEM	QTY	DESCRIPTION
1	1	HOPPER
2	1	MAIN RING - CLAMP RING
3	1	UPPER COARSE SCREEN WITH DOWNSPOUT
4	1	FUNNEL RING
5	1	LOWER FINE SCREEN WITH DOWNSPOUT
6	3	PAIN CLAMP
7	1	SPACER RING
8	1	FINE PARTIAL DOWNSPOUT PAN
9	1	TOP SIEVE WELDMENT
10	1	SIDE COVER
11	1	MOTOR FLANGE
12	3	SPACER PIPE
13	3	MALE TO MALE 2" RUBBER FEET

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS: 1/16" ANGLES: 0° 30' - 0° TWO PLACE DECIMAL: .005 SURFACE FINISH: V		DRAWN	NAME	DATE
INTERMEDIATE FINISH WELDING		CHECKED	ITL	8-15-08
FINISH		FILE NAME	COMMENTS	
APPLICATION		USED ON	SCALE: N/A WEIGHT: SHEET	
DO NOT SCALE DRAWING		REV	TITLE: <b>SPONGE-JET</b> MODEL 25-P RECYCLER	
REVISIONS AND COMMENTS: THIS INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPONGE-JET. IT IS TO BE KEPT IN CONFIDENTIALITY AND A WHOLE OR PARTIAL REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF SPONGE-JET IS PROHIBITED.		SIZE: B	DWG. NO.: "B"	REV: -

ITEM	QTY.	DESCRIPTION
1	1	PUSH/PULL CLAMP WELDMENT
2	1	BOTTOM MOUNT PAD
3	2	SIDE MOUNT PAD
4	1	THREADED ROD
5	1	PUSH/PULL CLAMP
6	2	PLASTIC WASHER
7	2	PLASTIC WASHER
8	2	SHOULDER BOLT
9	2	ACORN NUT
10	2	HEAVY DAW NUT



UNLESS OTHERWISE SPECIFIED:		DRAWN	DATE
DIMENSIONS ARE IN INCHES		DATE	
FRACTIONS: 1/4"		CHECKED	
ANGLE: 1/8" 30°		DATE	
TWO PLACE DECIMAL: ±.01		INSP.	
THREE PLACE DECIMAL: ±.005		WELDING	
SURFACE FINISH: V		FINISHES	
INTERMET GEOMETRIC		COMMENTS	
SYMBOLS AND PER.			
FINISH			
DO NOT SOLE DIMENSION			
NEED ASST			
APPLICATOR			
ISSUED ON			
PROPRIETARY AND CONFIDENTIAL			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPONGE-JET. IT IS TO BE USED FOR THE MANUFACTURE OF THIS DRAWING ONLY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SPONGE-JET.			

<b>UPPER RASP EXTREME BRACKET</b>	
SIZE DWG. NO. <b>B "DWG: C"</b>	REV -
SCALE: N/A   WEIGHT:	SHEET



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**NOTES:** \_\_\_\_\_

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**MODEL#:** \_\_\_\_\_

**SERIAL#:** \_\_\_\_\_

## EC Declaration of Conformity

**We Of:**

Sponge Jet Inc.  
14 Patterson Lane,  
Newington, N.H. 03801  
Telephone Inquiries to: 1-603-610-7950  
Email: sjadmin@spongejet.com



**Hereby declare that:**

Equipment: Sponge-Jet Recycler  
Model: 25P-CE or 35P-CE or 50P-CE  
Serial Number: XXXX  
Year of construction: XXXX

**Is in conformity with the applicable requirements of the following standard documents**

**The Directives covered by this Declaration:**

Machinery Directive: 2006/42/EC (Formerly 98/37/EC)

**The Machinery Directive 2006/42/EC Standards:**

EN ISO 14121-1-2007 - (Safety of Machinery—Risk Assessment)

I hereby declare that the equipment named above has been designed to comply  
With the relevant sections of the above referenced specifications. The unit complies  
With all applicable Essential Requirements of the Directives.

Signed: \_\_\_\_\_



Name: Michael T. Merritt  
Position: President  
On This Date: XX/XX/XXXX

**Authorised Representative:**

Eurolink (Europe) limited  
Avalon House  
Marcham Road  
Abingdon OX14 1UD  
UK