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# OPERATION MANUAL

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## RUSTIBUS<sup>®</sup> RCJ-3000 CLEANING JET



## HELPFUL IDENTIFIERS

In addition to information on installation and operation, this instruction manual may contain **WARNINGS** and **CAUTIONS** pertaining to user safety, and **NOTES** on important, useful operating guidelines.

A **WARNING** indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

A **CAUTION** indicates a potentially hazardous situation, which, if not avoided may result in minor or major injury.

A **NOTE** is to alert the operator to important operating information.

**ANSI Z535.5-1997 Definitions**

## IMPORTANT

The safeguards and instructions in this manual cannot cover all possible conditions and situations, which may occur. As we cannot control the correct mounting, usage and utilization of this product, we cannot be responsible or liable for any injuries, damages, losses or costs, which result from using our products in any way.

Do not attempt to operate this tool until you have read and understood all safety precautions and instructions listed in this manual.

Incorrect operation of this unit can cause serious injury.

Maintain your company's safety procedures while operating this tool.









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## **WARNING**

-  **Wear Personal Protective Equipment that protects the head, hands, feet, eyes and hearing at all times while using this system. In some situations it may be necessary to wear breathing apparatus and full face masks.**
-  **Flying Debris can be created from the action of using this system. Be aware!**
-  **Rustibus® Cleaning Jet is NOT electrically insulated.**
-  **Respiratory protection should be considered depending on material being removed.**
-  **Never operate this system unless it is securely mounted on its tripod and that the tripod is situated on a flat level surface.**
-  **Before starting Rustibus® Cleaning Jet, ensure that all fixing screws, bolts, clamps, fittings and locking devices are mounted correctly and securely tensioned.**
-  **Never aim the Rustibus® Cleaning Jet at any person, this system produces a powerful jet of water that could cause serious injury.**
-  **Modification of this tool WILL invalidate the warranty and can lead to serious injury. DO NOT DO IT!**







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**⚠ CAUTION**

-  **Never install, remove or perform any maintenance on the Rustibus<sup>®</sup> Cleaning Jet when the air supply is connected.**
-  **Always keep both hands on the breech end of the barrel when operating the Rustibus<sup>®</sup> Cleaning Jet.**
-  **Never drag or lower this system by the water or air hoses.**
-  **Rustibus<sup>®</sup> Cleaning Jet should be properly maintained and stored in a secure dry place when not in use to avoid damage to parts.**
-  **Always be aware of others working close to and around you!**
-  **Use 'whip checks' on all air and water hoses. To prevent 'whip' in case of detachment.**

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**General Information.**

This operation manual contains the necessary maintenance information that you require to ensure and maximise the proper operation and care of your Rustibus® Cleaning Jet. This manual must be read thoroughly and understood before work with this tool or maintenance on this tool commences.

It is vital that you follow the local safety rules and procedures. Failure to do so can result in damage or injury to the tool, property or persons.

This tool is intended for use in the cleaning/washing of ships cargo holds. The powerful water jet this tool produces can also remove flaking rust and paint patches.

THINK SAFETY FIRST AT ALL TIMES!

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\*Please read the warnings before operating the Rustibus® Cleaning Jet.

**Warnings:**

When connecting, moving or repairing the Rustibus® Cleaning Jet, the air-power supply **must always** be disconnected.

•**Head, Ear & Facial protection should be used for your own safety.**



It is recommended to use a safety screen when operating the Rustibus® Cleaning Jet.

Wear protective gloves and sturdy shoes.

*Working safely with this machine is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. In addition, the general safety instructions in this enclosed booklet must be followed. Before using the first time, take a look at the machine for understanding the practical workings of it.*

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## Technical Information.

### Water Supply.

The Rustibus® Cleaning Jet requires a minimum 51mm (2") bore water hose. It must be ensured that all hoses and couplings used are secured, leak free and in good condition.

**The recommended water pressure is 5.9 bar (85p.s.i.)**

### Air Supply.

The Rustibus® Cleaning Jet requires an air hose with a minimum 19mm (3/4") bore. It must be ensured that all hoses and couplings used are secure, leak free and in good condition. We recommend the use of 'whip checks' between all your air connections.

You should try to limit the length of air hose to 30m (100ft). When it is necessary to add extra air hose it should be remembered that for every 15m (50feet) of hose there will be a pressure drop of approximately 0.21bar (3 p.s.i.)

**The recommended air pressure is 6.9 bar (100p.s.i.)**

Do not allow the operating pressure to fall below 6.2 bar (90 p.s.i.) nor rise above 7.6 bar (110 p.s.i.). The compressor used should be able to deliver a minimum of 47.2 L/s (100CFM) of free air.

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## Installation and Use .

### Before You Start.

VERIFY THE COMPLETENESS OF YOUR RUSTIBUS® CLEANING JET.

Erect the Tripod and spread the Tripods legs out fully, ensuring that the Tripod is in a stable position.

Remove the safety clip from the mounting pin and then the mounting pin from the mounting bracket. Mount the Barrel of the Rustibus® Cleaning Jet on the mounting bracket and replace the Mounting pin and safety clip in turn..

It is essential that you check and clear the air hoses before you connect them to the Rustibus® Cleaning Jet. Failure to do so could result in foreign matter blocking or choking the valve assembly.

Connect a 51mm (2") water hose to the rear (breach) end of the Rustibus® Cleaning Jet using a hose adaptor or instantaneous couplings on the hose and connect that to the adaptor.

Check that you have the correct air pressure for this tool, 6.9bar (100 p.s.i.) available in the correct quantity. Check that you have the correct water pressure for this tool, 5.9bar (85 p.s.i.) available in the correct quantity.

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### Using the Rustibus® Cleaning Jet.

**IMPORTANT!**

Ensure that the area you intend to clean is completely free of personnel and of any electrical equipment that is exposed or is not protected against water ingress. (IP67 minimum protection.)

Care must be taken to avoid damaging or tripping over the water or air hoses.

Wearing the necessary PPE, the operator needs to adopt a solid stance and secure foothold to be able to use this tool safely, due to the recoil when the water and air is switched on.

With one of the operators in position and holding and controlling the Rustibus® Cleaning Jet securely the second operator can then slowly open the water valve at the main or pump. It is essential the tool is held securely during opening and use.

The air valve can then be opened and adjusted carefully to create a tight and hard hitting jet of water. To much air will cause the water jet to spread and break up. And therefore be less effective.

On completion of the work or in the case of emergency, close off the air first and then instruct the second operator to shut off the water.

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### Disassembly of the Rustibus® Cleaning Jet.

**IMPORTANT!**

On completion of the work or in the case of emergency, close off the air first and then instruct the second operator to shut off the water.

Disconnect the air and water supply hoses and wipe /clean all deposits from the outside of the Rustibus® Cleaning Jet.

Remove the safety clip from the mounting pin and then while holding the weight of the barrel remove the mounting pin from the mounting bracket, remove the barrel from the Tripod. Replace the Mounting pin through the Mounting bracket and reattach the safety clip in turn..

You should take care not to trap hands or fingers when collapsing the Tripod. We would also recommend that you lubricate the joints of your Tripod prior to placing it in storage. Keep your Rustibus® Cleaning Jet covered and stored in a dry and secure place.

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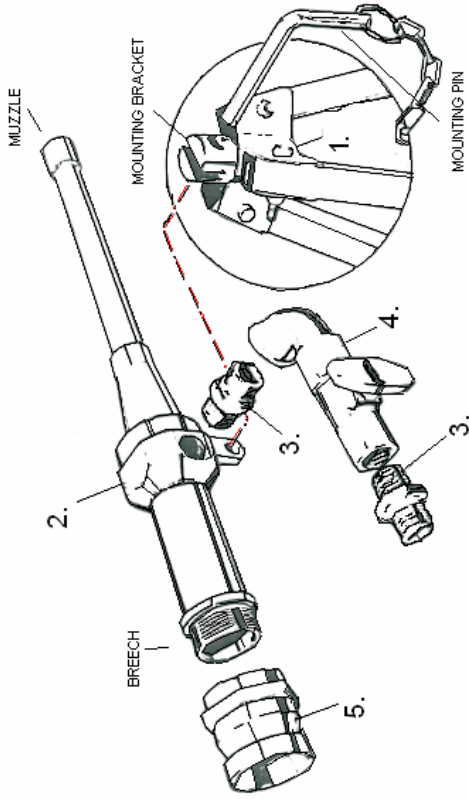
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**Technical drawing.**



Item No.	Part No.	Description.
1.	RCJ - 3004	Tripod
2.	RCJ - 3001	Main Body (Barrel)
3.	RCJ - 3002	Air inlet adapter
4.	RCJ - 3003	Air inlet control valve
5.	RCJ - 3005	Instantaneos water hose adaptor
5a.	RCJ - 3006	Water hose coupling 2 1/2" x 2 1/2"
5b.	RCJ - 3007	Water hose coupling 2 1/2" x 2.0"
	RCJ - 3010	Extra Equip. Tripod Stand (Special Order)

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**TOOL SPECIFICATIONS.**

At it's maximum working distance of 30m (100ft), the force of water on the surface being cleaned in approximately 10kg.







Recommended water pressure.	6kg /cm <sup>2</sup> (5.9bar)	85 p.s.i.
Recommended air pressure	7kg/cm <sup>2</sup> (6.9bar)	100 p.s.i.
Estimated water consumption	454 lpm	100 gal/min
Estimated air consumption	33 lps	70 cfm
Recoil	10 -18 kg	22 to 40 lbs
Weight (RCJ + Tripod)	14.1 kg	31 lbs
Weight of RCJ	5.5 kg	12 lbs
Weight of Tripod	8.6 kg	19 lbs
Length of Tripod (with threaded adaptor)	770 mm	30"
Length of Tripod (closed)	1160 mm	45.5"
Height of Tripod (open)	1027 mm	40.5"
Air hose	19 mm	3/4"
Water hose	51 mm	2"
Instantaneos coupling (Use water hose adaptor)	51 x 63.5 mm	2" x 2 1/2"
Instantaneos coupling (Use water hose adaptor)	63.5 x 63.5 mm	2 1/2" x 2 1/2"

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**RUSTIBUS® CLEANING JET WARRANTY/REPLACEMENT PLAN**

DALSEIDE SHIPPING SERVICES WILL REPLACE OR REPAIR ANY TOOL OR COMPONENT THAT FAILS DUE TO DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR (12 MONTHS) FROM THE DATE OF SHIPMENT OF THIS PRODUCT FROM OUR FACILITY. A WARRANTY CLAIM WILL NOT BE HONOURED IF DEFECTS ARE NOT REPORTED WITHIN THE WARRANTY PERIOD, OR IF DALSEIDE SHIPPING SERVICES DETERMINES THAT DEFECTS OR DAMAGES ARE DUE TO NORMAL WEAR, MISAPPLICATION, LACK OF MAINTENANCE, ABUSE, IMPROPER INSTALLATION, ALTERATION, OR ABNORMAL CONDITIONS.

*Dalseide Shipping Services will always seek to improve the Rustibus® machines design, specifications and production. Therefore, alterations may take place at any time. While every effort is made to produce up-to-date literature, the descriptions, specifications, illustrations and photographs in this manual should not be regarded as the definitive guide to current specifications; though all manuals are considered concise at the time of their production.*

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