



RB SERVICES
(Co. Reg. No.:NS 0005439-H)



THE SAT BLAST SYSTEM



RB SERVICES

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THE 'SATBLAST' SYSTEM KEY FEATURES – SATB 50 MKII

- The SatBlast provides “Dust Free” controllable abrasive cleaning power for a wide variety of applications.
- When the dust from standard dry blasting is an issue the SatBlast is the ideal solution and avoids the use of toxic chemicals.
- This versatile system offers the following advantages:-
 - **Low water volume** - Blasts with a mist not a water jet.
 - Fixed fill of water & abrasive, no constant water supply required.
 - The unit can operate at **very low pressure** for stone, brick and concrete cleaning avoiding water ingress into cracks and crevices and eliminating damage to the surface of the bricks etc
 - The unit also operates at **high pressure** for powerful blasting and cleaning to provide a key on steel and concrete.
 - Fully saturated operation can even **reduce abrasive consumption**.
 - “**Dust Free**” operation protects your operatives and passers by from dust inhalation. No dry dust ingress into adjoining properties. Operator is able to work without cumbersome ancillary equipment.
 - Often improves production rates.

THE 'SATBLAST' is 'THE SOLUTION'

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THE 'SATBLAST' SYSTEM ADDITIONAL FEATURES

- Fully pneumatically operated – ideal for hazardous areas.
- No permanent water supply required.
- No water pump to fail.
- A single, very portable unit, as simple to operate as a standard blast pot.
- Operates at fully adjustable pressures from 5-100 p.s.i.
- Suitable for one-man operation.
- Fully Adjustable Media Flow using a Thompson valve
- Can utilize damp abrasive.
- Wash down facility available.
- Can also be used for dry abrasive blasting.
- The main vessel is designed and tested in accordance with the Pressure Systems Directive and is CE marked.
- Vibration levels are well within the requirements of the Physical Agents Directive, as shown by the test results which are

available on request. **'SATBLAST'** SIMPLE,
SAFE, ECONOMICAL, RELIABLE



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THE **'SATBLAST'** SYSTEM

TYPICAL APPLICATIONS

The *Satblast System* is suitable for use on: -

Concrete	— At Low Pressure for cleaning and washing away corrosive salts and/or in Concrete Repair at Higher Pressures for exposing aggregate, removing surface coatings and removing rust from Rebar.
Stone	— At Low Pressure for Gentle Cleaning and Graffiti removal.
Brick	— At Low Pressure for Gentle Cleaning or removal of Masonry Paint.
Timber	— At Low Pressure for stripping paint from hard woods.
Fibreglass	— At Low Pressure for paint and coating removal.
Steel	— At High Pressure for dust free cleaning of rust and paint from structures such as ships, bridges, tanks, girders etc.

**Unlike High Pressure Water Systems the
'Satblast' will provide a key on new steel.**

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CASE STUDIES - APPLICATION GUIDELINES

In live tests the following results were recorded,

1. TASK - To remove heavy industrial grime from brickwork

PRODUCTION RATE - 25 square meters cleaned in 26 minutes

ABRASIVE CONSUMPTION - On this occasion only 50 kg of silica free sand type abrasive was used. (Whilst this coverage was particularly good, abrasive consumption is generally 2-3 times lower than with open blasting).

LOCATION - Main thoroughfare

ADDITIONAL BENEFITS - No sheeting up, No road closure required. No disturbance to surrounds.

2. TASK - To remove graffiti from the Menai Bridge, gateway to Anglesey in North Wales.

Special remit was to remove the paint without removing the lichen growth and general grime from the wall behind, to avoid the necessity of cleaning the whole structure.

Operations were carried out at some distance below the road and the Satblast System working at 15 p.s.i successfully completed the removal of just the painted lettering utilizing 40 meters of Blast Hose from the unit to the nozzle.



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3. TASK - To remove paint and rubberized coating from occupied, multistory, concrete construction blocks of flats.

THE PROBLEM - Tests carried out with dry blast cleaning systems proved unsuccessful as the rubberized coatings softened and bubbled up becoming impossible to blast off.

THE SOLUTION - The small amount of water used by the *Satblast* System kept the coatings cool, thereby preventing this softening and bubbling and enabling the media to successfully remove the coatings. Each block was successfully cleaned using just two units, one working from ground level and one from the roof.

4. TASK - to clean coatings from brick walls in the confined area of cells within a working prison.

Using the *Satblast* System dust was suppressed, operations were carried out quickly without loss of operator visibility and the surface was prepared to the required specification for subsequent re-coating.

5. TASK – to clean steelwork offshore and provide a key for re-coating.

As an alternative to Ultra High Pressure Water Cleaning the *Satblast* successfully provides the required key without contaminating this sensitive area with dust.

6. TASK – to clean vessels in the dry docks of working shipyards.

Using the *Satblast*, dry airborne dust emissions are eliminated and spent, wet abrasive is localized for disposal.



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THE **'SATBLAST'** SYSTEM

PRODUCTION RATES

The production rates will vary with each application - i.e. the type of substrate to be cleaned and whether any coating is to be removed etc. and also with the following factors: - Air Pressure, Air Volume, Nozzle Size, Abrasive Type and Flow Rate.

The ability to vary these factors to suit any application ensures that the *Satblast* is a totally versatile and universally successful system.

On steel production rates of 9-30m² per hour to SA 2½ can be achieved.

EASE OF OPERATION

Set up time takes only a few minutes, requiring only connection of Air Supply Hose, Blast Hose and two Remote Lines for the Deadman's Handle as would be required for a standard blast pot.

The unit is fully portable and suitable for one-man operation using a compressed air supply of 170cfm for low pressure operation or 265cfm for higher pressure operation.

Operator training courses are also available on site.



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THE **'SATBLAST'** SYSTEM

UNIT FEATURES

- 1 1/4" BSP Air Connection
- Emergency Stop Button
- Push button choke
- Pressure regulator – 5 to 100 psi
- Inlet supply pressure gauge
- Working pressure gauge
- Wheel mounted portable unit
- Tungsten carbide / urethane lined, normally closed abrasive metering valve
- A rust inhibitor can be added



SATBLAST PACKAGE INCLUDES

- SatBlast Unit
- 10m of blast hose with a silicon carbide nozzle
- Operators helmet with visor and ear defenders

OPTIONS AVAILABLE

- Compressor air line
- Blast Hose extensions.



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THE **'SATBLAST'** SYSTEM

The vessel is built in accordance with the Pressure Equipment Directive 97/23/EC, with a **MAXIMUM** safe working pressure of 8.7 Bar.

OVERALL DIMENSIONS

1095mm high x 820mm deep x 600mm wide

WEIGHT

Unit Dry - 120kg 10mtrs Blast Hose - 16kg

ABRASIVE CAPACITY

2 Models - 50 kg and 150kgs

RECOMMENDED MEDIA

Silica Free Sand Grade Media – **ABRABLAST -M**

Stone Grit Fine or Extra Fine.

Garnet.

Very Fine Grits or Mineral Slags.

This System is Designed for use with **FINE** Media in a Saturated Form, **NOT** Medium or Coarse Grits/Mineral Slags.

*- Only Available From –
RB Services
Malaysia
019-6510726*