

Storm Blaster™

Rotary Jet- Storm Tank Cleaner

The Storm Blaster series has been specifically engineered for use in cleaning large storm water retention tanks. These machines are powerful, robust and are based on technology used for decades in cargo ship / tanker cleaning applications.

These machines can be deployed in cold, dirty and corrosive environments with little or no maintenance requirements. They will operate reliably and have a sufficient jet length to clean even the largest of storm tanks. These features also make them suitable for automated wet well / pump station cleaning.

Key product features

- Entirely fluid driven meaning no external power source is required
- Fully sealed gear box allowing for muds and other high particulate fluids to be used as the cleaning media e.g. final effluent
- Powerful jets up to 25 metres in length
- Stainless steel rugged design means almost no maintenance is required



Storm Blaster installed in a covered tank

Made in the UK



The Orbitor is manufactured in the UK exclusively for The Spray Nozzle People by Dasic Marine



Spray characteristics:

Flow rates: 100 - 570 L/min
 Working Pressure: 2 - 10 bar
 Jet length: Up to 25 metres
 Wash pattern: 180° or 360°
 Cycle times: 26 - 85 minutes

Materials:

Housing: 316
 Nozzle Head: 316
 Gears: PEEK + 316 SS
 Bushing: Carbon Filled PTFE

Weight: 12kg for 6 - 12mm
 14kg for 14mm

ROTARY JET

Key Advantages

- **Efficient** It is by far the most water and energy efficient method of cleaning storm tanks.
- **Cost effective** When compared to the cost of other methods like tipping buckets and manned entry the Storm Blaster system is considerably cheaper in terms of both installation and operating cost.
- **Effective** The Storm Blaster removes more residue than other methods like tipping buckets and eductor swirl systems. This reduces the risk of foul smelling odours causing complaints from nearby residents.

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How it works

The Storm Blaster is a fluid driven rotary jet cleaner. The cleaning fluid is pumped through the machine and this first passes through a turbine which causes the two nozzle arms to spin. The fluid then passes through the nozzles forming a powerful cleaning jet. As the arms rotate the main body also rotates in a set pattern. This is geared so that over a specific period of time (the clean cycle) the cleaning jets are brought to bear on each part of the tank ensuring a thorough, methodical clean.

For each configuration of Storm Blaster there will a maximum jet length for any given fluid pressure. The max jet length is the overall reach of the resulting spray. The effective cleaning jet length is smaller than this and represents the distance from the machine where a reasonable cleaning action will be achieved. Clearly a more robust clean will be given the further within the effective jet length the target sits.

Configurations

| Feature | Available Options |
|---------------|----------------------------------|
| Hygienic | No hygienic option |
| ATEX | No |
| Clean Pattern | 180° (standard) 360° (as option) |
| Nozzle Sizes | 6, 7, 8, 10, 12 and 14mm |

Wash cycle times

| Pressure | Cycle time for all nozzle sizes | |
|----------|---------------------------------|--------------|
| | 6-12mm nozzle | 14mm nozzles |
| 2 | 85 | 85 |
| 4 | 50 | 72 |
| 6 | 36 | 60 |
| 8 | 29 | 48 |
| 10 | 26 | 37 |

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Effective jet lengths and flow rates

| BAR | 2x6mm | | 2x7mm | | 2x8mm | | 2x10mm | | 2 x 12mm | | 2 x 14mm | |
|-----|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
| | Flow rate l/min | Jet length Mtr | Flow rate l/min | Jet length Mtr | Flow rate l/min | Jet length Mtr | Flow rate l/min | Jet length Mtr | Flow Rate l/min | Jet Length Mtr | Flow Rate l/min | Jet Length Mtr |
| 2 | 80 | 7 | 81 | 8 | 95 | 9.5 | 120 | 10 | 200 | 10 | 316 | 11 |
| 4 | 98 | 9.5 | 103 | 10 | 118 | 10.5 | 167 | 11 | 220 | 11.5 | 341 | 14 |
| 6 | 113 | 10.5 | 125 | 11 | 142 | 12 | 190 | 13 | 260 | 14 | 475 | 18.9 |
| 8 | 132 | 12 | 138 | 13 | 163 | 13.5 | 217 | 14 | 292 | 15 | 508 | 22.6 |
| 10 | 143 | 13 | 155 | 14 | 177 | 14.5 | 228 | 15 | 315 | 17 | 570 | 25.5 |