

# 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



THE  
SPRAY NOZZLE  
PEOPLE

Bete Limited



#### Spray characteristics:

Flow rates: 100 - 570 L/min  
Working Pressure: 5 - 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: 12 or 14 kg

### Key Advantages

- **Efficient** It is by far the most water and energy efficient method of cleaning storm tanks.
- **Cost** 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.
- **Effectiveness** 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, 14 and 16mm

### 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

### 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