

Orbitor 4

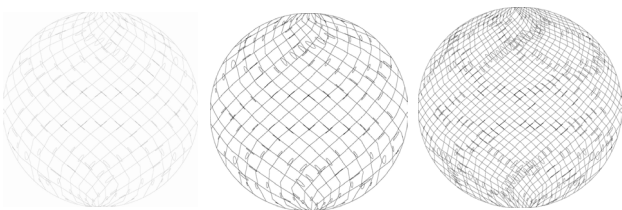
Rotary Jet- 4 Nozzle

The Orbitor 4 is the four nozzle variant of the Orbitor tank cleaning system. This is a hygienic, self cleaning, self lubricating and highly versatile tank washing machine capable of cleaning tough residues from tanks from 2 - 26 metres in diameter.

The Orbitor 4 is typically used in food processing, beverage, pharmaceutical and chemical tank cleaning applications. Its versatile design, however, means it can be configured to clean tough residues in almost any industrial application.

Key product features

- Entirely fluid driven meaning no external power source is required
- Self lubricating
- Powerful jets up to 13 metres in length
- Easy to maintain. Can be stripped and reassembled in 15 minutes.
- ATEX certified zones 0 and T6
- Self cleaning and hygienic design suitable for food and pharmaceutical applications



Spray pattern builds up over a set cycle

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: 80 - 458 L/min
Working Pressure: 4 - 10 bar
Jet length: Up to 13 metres
Wash pattern: 360°
Cycle times: 5.5- 15.5 minutes

Materials:

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

Weight: 8Kg

Key Advantages

- **Hygienic** The Orbitor 4 is a fully self cleaning machine and is made from food / pharmaceutical grade hygienic materials.
- **Effectiveness** The Orbitor 4 is a highly effective cleaning machine delivering powerful cleaning jets up to 13 metres in length.
- **Safe** The Orbitor 4 is one of the only tank cleaners that is ATEX certified for use in all zones and temperatures.
- **Powerful** The four nozzle configuration means that cycle times are reduced when compared to the 2 nozzle machine.

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How it works

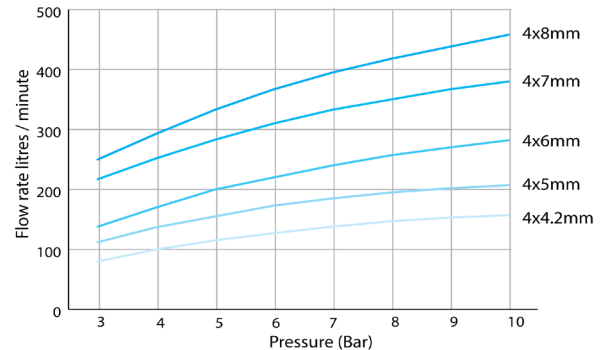
The Orbitor 4 is a fluid driven rotary jet cleaner. The cleaning fluid is pumped through the Orbitor and this first passes through a turbine which causes the two nozzle arms to spin. The fluid then passes through the nozzles forming a powerful cleaning jet. As the arms rotate the main body also rotates 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 Orbitor 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 the effective jet length the target sits.

Wash cycle times

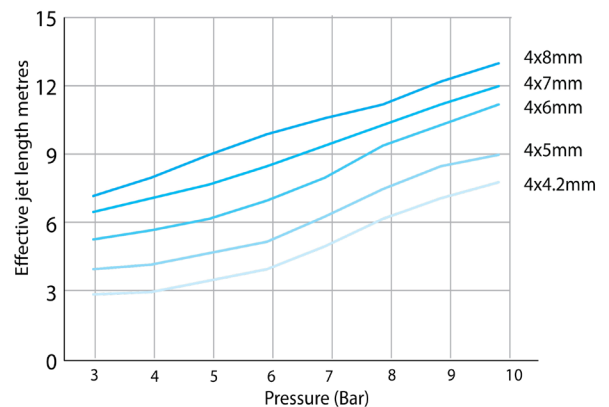
Config	Cycle Time (min) @ pressure (bar)			
	4	6	8	10
4.2mm	9.3	6.9	5.8	5.5
5mm	10.8	8	6.8	6.4
6mm	12.9	9.5	7.6	6.9
7mm	15.2	13	10.4	8.9
8mm	12.9	9.5	7.8	6.9

Flow rates



* Flow rates are for 360° clean pattern 180° patterns are typically 40% lower than shown

Effective Jet Lengths



Configurations

Feature	Available Options
Hygienic	As standard. Non-hygienic as an option.
ATEX	ATEX options available
Clean Pattern	360° and 180°
Nozzle Sizes	4.2, 5, 6, 7 and 8mm
Custom configurations are available upon request.	