



THE  
**SPRAY NOZZLE**  
PEOPLE

# ORBITOR 2

Rotary Jet



## TANK WASH

### DESIGN FEATURES

- ▼ Entirely fluid driven - no external power source is required
- ▼ Self lubricating
- ▼ 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 application

### SPRAY CHARACTERISTICS

- ▼ Flow rates: 80 - 600 l/min
- ▼ Working Pressure: 3 - 10 bar
- ▼ Jet length: Up to 20 metres
- ▼ Wash pattern: 360°
- ▼ Cycle times: 15.5 - 33 minutes
- ▼ Materials:
  - Housing: 316L
  - Nozzle Head: 316L
  - Gears: PEEK + 316 SS
  - Bushings: Carbon Filled PTFE
- ▼ Weight: 8Kg



The Orbitor 2 is a fully self-cleaning machine made from food / pharmaceutical grade hygienic materials. It is typically used in food processing, beverage, pharmaceutical and chemical processing applications but it can be configured to clean tough residues in almost any industrial application.

The two nozzle configuration means that larger nozzles with higher flow rates can be deployed extending the jet length to 20 metres.

The Orbitor 2 is one of the only tank cleaners that is ATEX certified for use in all zones and temperatures.

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[www.spray-nozzle.co.uk](http://www.spray-nozzle.co.uk)

The Go-to People for spray nozzle solutions

## How it works

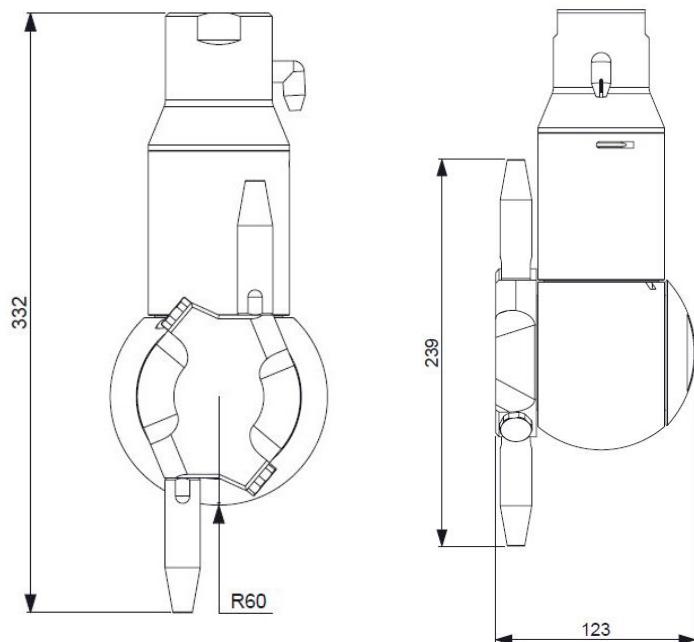
The Orbitor 2 is a fluid driven rotary jet cleaner. The cleaning fluid is pumped through the Orbitor and this first passes through a turbine which causes the two nozzle arms to spin. The fluid then passes through the nozzles forming a powerful cleaning jet. As the arms rotate the main body also rotates 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 effective jet length the target sits.

**Made in the UK**



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



## Orbitor 2

Flow rates, Jet Lengths and Cycle Times

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

Bar	Model Type														
	2x6mm			2x7mm			2x8mm			2x10mm			2x12.5mm		
Bar	Flow rate l/min	Jet Length (m)	Cycle Time (min)	Flow rate l/min	Jet Length (m)	Cycle Time (min)	Flow rate l/min	Jet Length (m)	Cycle Time (min)	Flow rate l/min	Jet Length (m)	Cycle Time (min)	Flow rate l/min	Jet Length (m)	Cycle Time (min)
3	80	5.5	33	93.3	6.5	37.5	117	7.2	25.7	217	9.8	41	330	10.1	26.8
4	91.7	6	27.2	117	7.2	31.6	150	8	22.9	255	10.5	34.2	383	11.2	24
5	108	6.3	24.7	137	7.9	28.2	172	8.7	20.5	290	11.5	30.5	433	12.1	21.7
6	122	7	22.6	153	8.5	25.8	190	9.4	18.9	320	12.7	28	473	13.4	19.8
7	130	8	21	168	9.2	24	203	10.3	17.5	347	13.9	26	512	14.8	18.4
8	140	9	19.5	182	10.4	22.3	213	11.3	16.4	368	15.2	24.5	547	16.4	17.2
9	148	10.2	18.4	192	11.3	21	223	12.4	15.6	390	17	23.2	572	18.3	16.3
10	157	11.5	17.4	200	12.3	20	232	13.5	14.9	405	18.8	22	600	20.1	15.5