

High Performance and Overqualified Spray Nozzles for Extrusion Vacuum Tank Spray Technology

ISO

RTIF

## Extrusion Vacuum Tank Nozzle

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### Advanced Surface Technology as a Results of Nozzle Technology Improvements



Trough our continuously developing engineering research ,Mitsuda is offering high technology nozzle and spraying options that provides increasing product and surface impact quality.For all sectors working trough surface treatments such as coloring,drying,rinsing,descaling.. the best results can be achieved through using the test fit nozzles designed for thr required aplication.Mitsuda provides perfect solutions to users through its wide range of products and 35 years experience in surface technology applications. Our experied team guide you to get highest working performance through adapting continuously developing nozzle and spraying technology.











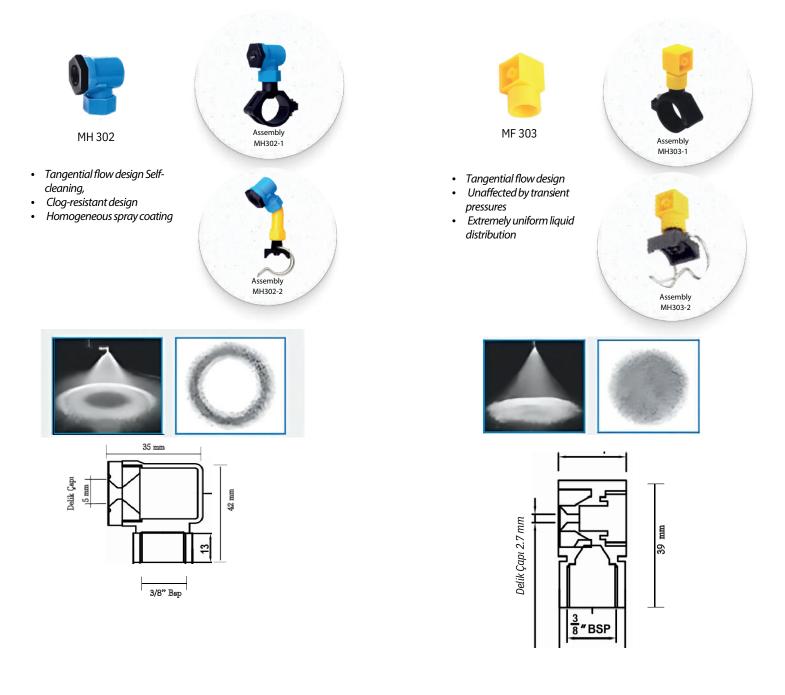




Mitsuda has established successful partnerships that are still on going through many fairs worldwide. The new technological era of virtual fair platform also enable Mitsuda to present its engineering srudies in the nozzle technology improvements.

## **Pipe Extrusion Vacuum Tank Spray Nozzle**





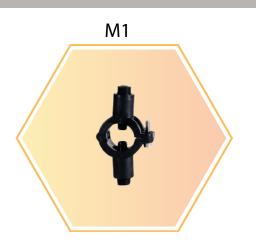
### Fields of Application

- Surface Spraying Dust Control
- Degreasing and Phosphating
- Pipe Cooling During Pvc/Hdpe Pipe Extrusion
- Cleaning and Washing Process
- Foam Control for Storage Tanks

Spray angle @ 3 bar	Nozzle Code	Hole Diameter (mm)	Nozzle Flow Rate	Spray Pressure						
				0.6 bar	1.3 bar	2.0 bar	3.0 bar	4.0 bar	5.0 bar	7.0 bar
90°	MF 303	2,6	[l/min]	1.84	2.76	3.28	3.80	4.70	5.42	5.99
			[gal/min]	0.49	0.73	0.87	1.01	1.24	1.43	1.58
	M H 302	5.00	[l/min]	2.50	3.00	3.42	4.15	5.15	6.00	6.80
	10111302		[gal/min]	0.66	0.79	0.90	1.09	1.36	1.58	1.79

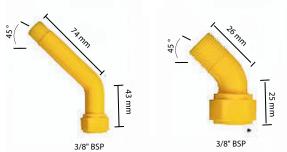
# **EYELET CLAMPS**





Two Side Eyelet Clamp

- For Pipe Dia 1 inç •
- 32-35.4 mm Outer Diameter **BSPT Male Threads**
- Termination : 1/4-3/8-1/2
- Drill Dia: 12 mm STD



**Bend Pipe Long** 



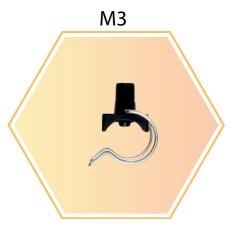
**Bend Pipe Short** 

Single Side Eyelet

M2

For Pipe Dia 1 inc

- 32-35.4 mm Outer **Diameter BSPT Male** Threads
- Termination: 1/4-3/8-1/2 •
- Drill Dia: 12 mm STD
- For Pipe Dia 3/4 •
- 25-27.5 mm Outer **Diameter BSPT Male** Threads
- Termination :1/4-3/8-1/2
- Drill Dia : 12 mm STD .
- For Pipe Dia : 1-1/4
- 40-42.5 mm Outer Diameter BSPT Male Threads
- Termination : 1/4-3/8-1/2
- Drill Dia: 12 mm STD



Clamp Eyelet Clamp

- For Pipe Dia 1 inç
- 32-35.4 mm Outer **Diameter BSPT Male** Threads
- Termination : 1/4-3/8-1/2 •
- Drill Dia: 12 mm STD
- For Pipe Dia 3/4 •
- 25-27.5 mm Outer • **Diameter BSPT Male** Threads
- Termination :1/4-3/8-1/2 •
- Drill Dia: 12 mm STD •
- For Pipe Dia: 1-1/4 •
- 40-42.5 mm Outer Diameter BSPT Male Threads
- Termination : 1/4-3/8-1/2 •
- Drill Dia: 12 mm STD

NOTE: (For Eyelet Clamp) Clip Eyelet Clamps are for 7.50 mm drilled holes. STD

### Clamp Metarial : Polyproplan







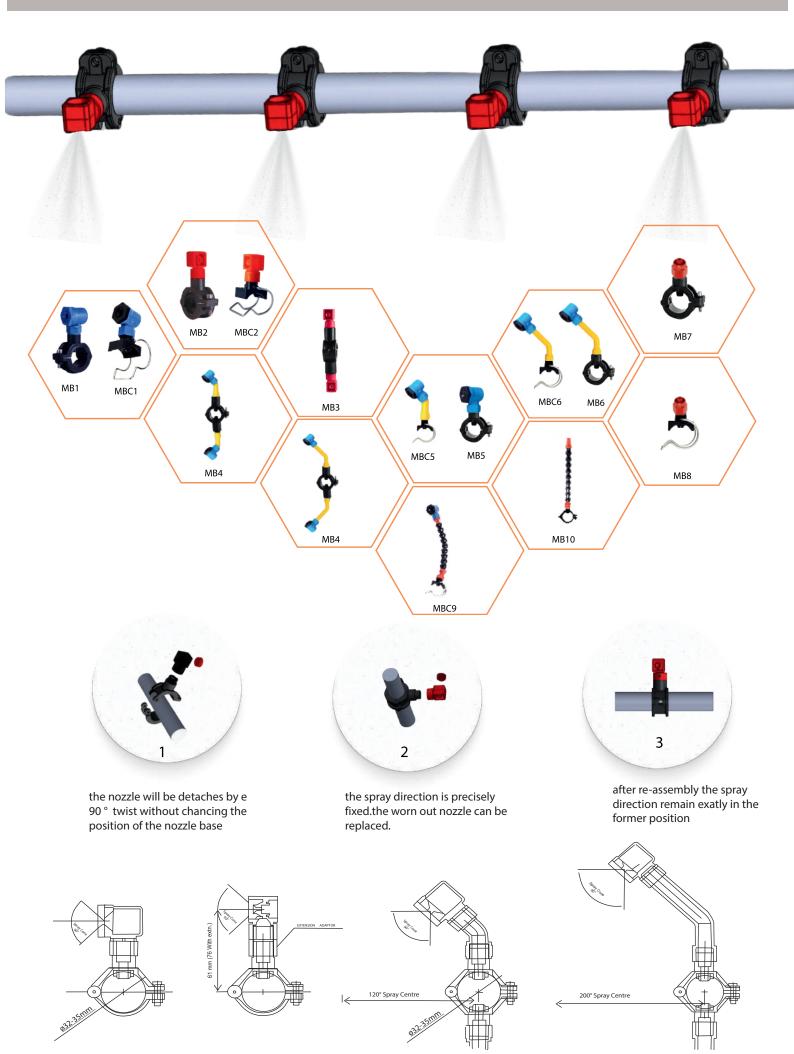




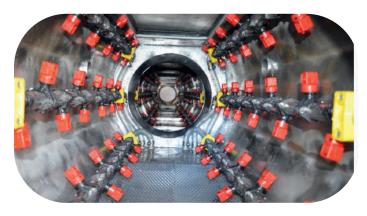


# The Criteria for Nozzle Select on











#### A Detailed Look Pipe Vacuum Tank Spray Nozzles

Pipe vacuum tank spray nozzles are specially designed spraying equipment frequendly used in the production of plastic pipes. These nozzles play a critical in the cooling and shaping of pipes whith in a vacuum environment

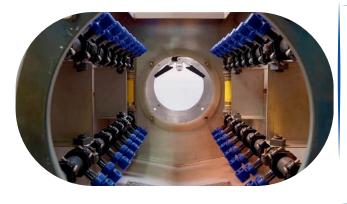
Easy Change of Nozz**l**e

#### Operating Pirinciple

Coolant Spraying : The spray nozzles, positioned inside the tank, atomizes the coolant (usually water into a fine mist and sprays it onto the pipe's surface. This spraying process endures rapid and even cooling of the pipe.

Cooling and Shaping : The coolant reduces the pipe's temperature, causing it to solidify and assume the desired shape. The vacuum applies uniform pressure to the outer surface of the pipe, contributing to smooth surface finish.







#### Advantages

Rapid and Even Cooling : Ensures quick and uniform cooling across the entire pipe surface. High-Quality Product: Improves surface quality and dimensional tolerances of the product. Energy Efficiency : Optimizes the cooling process, reducing energy consuption.

Automation Compatibility : Can be easily integrated into automated production processes. Summary: Pipe vacuum tank spray nozzles are

indispensable in modern plactic pipe manufacturing. These nozzles enable high-quality and efficient prduction.



## **Fields of Application**



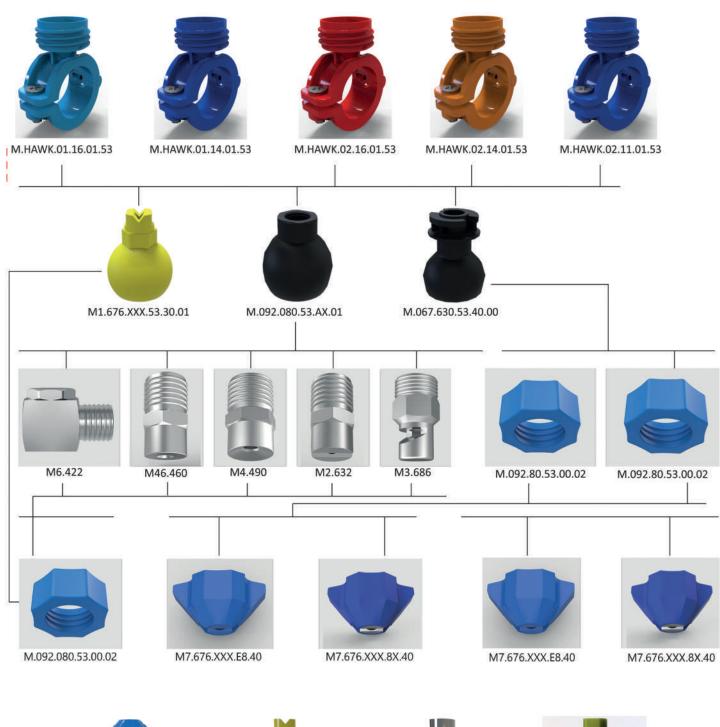




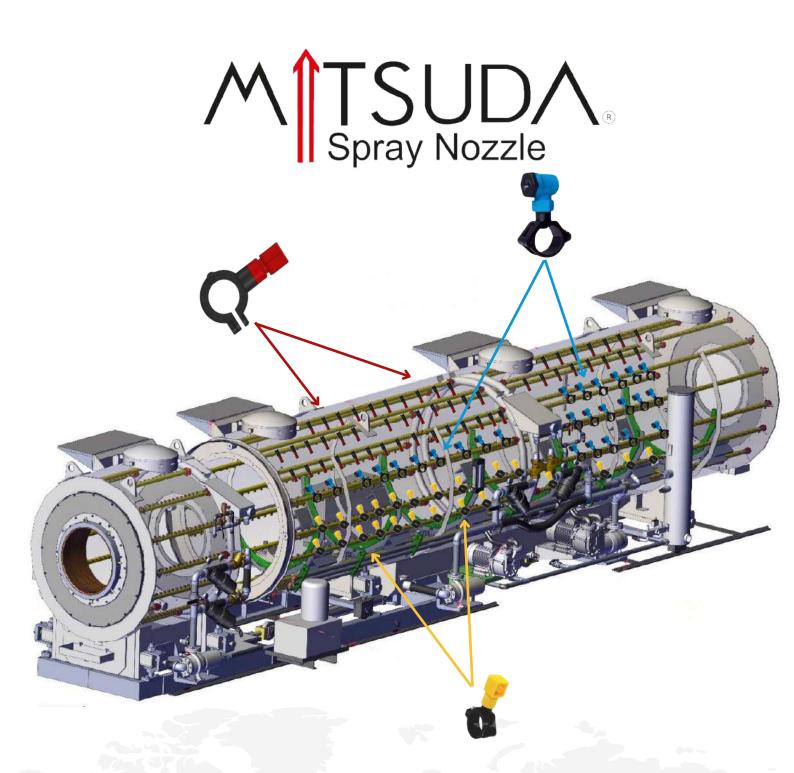


## Nozzle Wear









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