



**M-LINE**

# CLEANING SOLUTIONS

Options & Accessories



**imwt**<sup>®</sup>  
a **TECNIPLAST** company  
**PHARMA**

# M-LINE CLEANING SOLUTIONS

## Options & Accessories

### IBCs Cleaning System

- ▶ For IBCs up to 2200 mm (86,6") high and max diameter/footprint 1600 mm (63")
- ▶ Automatic cleaning head pneumatic lifting system, working range of 2000 mm (78,7")
- ▶ High pressure hydrokinetic head featuring 4 orbital nozzles
- ▶ Maximized results for every IBC size and shape, thanks to fine positioning at different heights and 360° coverage of the cleaning head
- ▶ Inclusive of AISI 316 S/S lid for bin openings up to DN400
- ▶ Support structure lower than 3000 mm (117"), footprint of 405 x 405 mm (16" x 16")



### Drying Mobile Unit

- ▶ Electrical heat exchanger to warm drying air up to 70°C – 158°F
- ▶ Pre-filter (G4) and HEPA (H14) filter equipped with ports for integrity testing and differential pressure monitoring system
- ▶ Hot air fan with a flow rate of 700 m³/h (412 cfm) equipped with anemometer for air-speed monitoring
- ▶ Siemens or Allen Bradley automation systems FDA CFR 21 part 11 compliant
- ▶ Automatic intercept electric valve for back-to-back washing and drying phases
- ▶ ASME BPE 4" clamp outlet with multiple length DN100 hoses and S/S 316L passivated lid suitable for bins with max DN400 openings



### Drums Cleaning Kit

- ▶ Suitable for drums with diameter up to 800 mm (31.5") and height up to 1100 mm (43.3")
- ▶ Electropolished AISI 316L drum supporting frame; manual adjustable holding system to easily manage different drums sizes
- ▶ High pressure hydrokinetic cleaning head with semi-sphere spraying pattern
- ▶ Easy to open side protective panels; ergonomic tilting aid tool, allowing drums ergonomic loading and unloading
- ▶ Structure, panels and drain tanks made in AISI 304
- ▶ Overall dimensions: 1100 x 1200 x 1860h mm (43.3" x 47.2" x 73.2"h)
- ▶ Max holding system height: 2500 mm (98.8")



**M-LINE | The ideal washing system for the product contact parts of any pharmaceutical IBC, drum, preparation tank and bulk container in general**

- ▶ Suitable for a wide range of applications (CIP and COP)
- ▶ Easy to move and connect to various washing stations
- ▶ Siemens or Allen Bradley automation systems FDA CFR 21 part 11 compliant
- ▶ M-line can be coupled to a wide range of cleaning heads and hydrokinetic lances to obtain a 360° coverage of all surfaces in a 1.5 m (60") radius
- ▶ Up to 70 bar (1015 PSI) for outstanding water mechanical action and quick cycles
- ▶ Only 40 l/min (9 gal/min) water flow for reduced water and chemical consumptions
- ▶ Multiple water inlets for managing different wash and rinse phases

M-LINE	
Footprint [mm - inch]	755 x 1440 - 29.7 x 56.7
Height [mm - ft]	1250 - 49.2
Weight [kg - lbs]	300 - 660
Pressure [bar - PSI]	70 - 1015
Waterflow [l/min - gal/min]	40 - 9



# DESIGNING RESULTS



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =

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