

Efficient and environmentally friendly process treatment with the Metalas MDD cleaning machine



Extensive possibilities with
the Metalas MMD series

 **metalas**
Cleaning Systems BV

Your partner for Component Cleaning Solutions

www.metalas.com

Whether cleaning, degreasing, phosphating, or paint removal....., Metalas offers the solution with the MMD series.

The MMD model, which stands for Metalas Modular Design, is constructed using a modular concept. This means that within the same design different machine configurations can be achieved. Whether it's a single tank machine for efficient degreasing, a machine with multiple tanks for cleaning or a surface treatment process, it is all possible within the same, reliable concept. The model MMD (type front loader) is designed for all types of spray-washing, degreasing and extensive customer-specific process applications and can be configured to meet customers' demands.

Reliability is the trademark of Metalas Cleaning Systems. This feature, combined with an optimal

process result, energy efficiency and user-friendly operation and maintenance, makes the MMD the solution for your cleaning issue. With the modern-design full stainless steel machines from the MMD range, components are treated thoroughly and efficiently. An optimal, high quality process result is achieved by combining changing direction of rotation and special multi-directional nozzles, for intensive spraying of the components.

Different functionalities have been integrated into one solution. A noticeable example of which is the smart combination of chassis – integrated drip tray – forklift lifting provision. This makes the drip tray part

of the machine's standard equipment. Another example concerns the doors and maintenance hatches which have a sandwich construction, and as a result of which they provide optimum insulation, are very light and are therefore very easy to handle.

Every innovation should have advantages that should be beneficial to the user, his or her surroundings and the environment. This approach has resulted in a modern machine with sleek lines and extensive standard equipment. A machine designed for the future.

Technical details model MMD

Type (*)	MMD 1350	MMD 1650	MMD 2000
Dimensions			
Loading surface (eight sided)	1000 x 1000 mm	1300 x 1300 mm	1600 x 1600 mm
Useful height	1000 mm	1000 mm	1000 mm
Admissible grid load	1000 kg	1000 kg	1000 kg
(*) The model MMD is also available as larger type MMD 2400 – 2800 – 3200			

Overall dimensions

Width	2320 mm	2620 mm	2920 mm
Depth (door closed)	1465 mm	1765 mm	2065 mm
Depth (door open)	2650 mm	2945 mm	3245 mm
Height	2285 mm	2285 mm	2285 mm
Machine weight (empty)	750 kg	1000 kg	1300 kg

Electrics

Working voltage	3x400 V/50Hz	3x400 V/50Hz	3x400 V/50Hz
Control voltage	24 VAC	24 VAC	24 VAC
Connecting voltage	20 kVA	22 kVA	36 kVA
Electrical heating tank 1	12 kW	12 kW	24 kW

Technical details

Liquid content tank 1	400 L	400 L	900 L
Pump pressure	4 bar	5,2 bar	5,5 bar
Pump capacity	300 l/min	450 l/min	500 l/min
Pump motor electric rating	5,5 kW	7,5 kW	9,2 kW
Finish stainless steel	Pickled and rinsed, ground SST sheet metal		
Extension to MULTI	2 tanks	3 tanks	3 tanks

The MMD standard machine can be configured with extra tanks of 400, 900 and 1200 liter. Technical details and execution options for model MMD MULTI on request.



MMD MULTI 1650-3T



Standard:

- Stainless steel AISI-304 execution
- Stainless steel pump
- Stainless steel tank(-s) and cabinet, pickled and rinsed
- Stainless steel drip tray
- Easy to clean filter baskets
- Stainless steel heating elements grade AISI-316
- Insulated cabin and drop-down door
- Insulated liquid tank
- Magnetic safety lock on door
- Low water level control heating elements and pump
- Easy to access liquid tanks with sludge / dirt gutter and cleaning hatch
- Direct mechanical drive with safety clutch
- PLC controlled
- Touch screen control
- Electrical enclosure (IP55)
- Mains isolator
- Emergency stop
- Drain connection (2" BSP)
- Connection steam extractor

Optional:

- Extra Stainless Steel tanks of 400 L, 900 L or 1200 L
- Electric roller shutter door or guillotine door
- Loading platform with drip tray and non-skid tiles
- Loading trolley
- Higher grid load
- Elongated cabin (increased useful height)
- Hot air drying
- Blow-off unit
- Steam extractor
- Alternative heating (gas, steam or hot water)
- Automatic water top up
- Fine filter unit
- Chemicals dosing unit
- Oil skimmer with timer
- Oil separator
- Water treatment unit
- Hand held spray lance
- Timer with weekend shutdown
- Small parts basket
- 2nd upper intermediate spray pipe
- Execution according to ATEX directives
- Customized to client specifications

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