



WOMA® TANK CLEANING HEADS

Professional high-pressure solution system.



Oils, fats, caking or deposits? With the TankMaster series, WOMA provides an especially wide application spectrum for all areas in which all kinds of tanks and containers need to be cleaned in an efficient manner.

Durability, easy handling and perfect cleaning results are the hallmarks of the TankMaster tank cleaning heads from WOMA. The experience with the proven gear unit design is also used for new product developments. The densest spray pattern of the entire product group ensures exceptionally good cleaning results in the shortest possible time. The high-quality sealing systems and hardened gears, in combination with housing and high-pressure parts made of high-strength stainless steel, guarantee a long service life and minimise maintenance costs.

Not only the internal components of the TankMaster are optimised, but all attachments such as the flow-optimised rotors and extension arms are also perfectly adapted for use on complex tasks. The TankMaster L convinces with a flow rate of 400 l/min and additional features. A speed adjustment memory function saves the defined settings for recurring cleaning tasks. Hermetic sealing of the entire system prevents the TankMaster L from being filled with fluid, even with rising water level in the tank.

Features & Benefits

- Speed adjustment memory function
- Hermetic sealing
- Proven wear-free eddy current brake
- Exceptionally dense spray
- Low rate of loss due to large flow diameters
- Flow-optimised rotors and wide range of accessories



- 1** TankMaster 500/200 EX
- 2** TankMaster S
- 3** TankMaster SL
- 4** TankMaster L

FUNCTIONAL PRINCIPLE OF THE WOMA TANKMASTER TANK CLEANING HEADS

Using high-pressure water of up to 400 l/min at 1,500 bar, the TankMaster tank cleaning heads remove even the most stubborn incrustations and impurities. With minimum insertion diameters from 128 mm, the compact design allows the self-propelled interior tank cleaning tools to be inserted through even the smallest openings and manholes in tanks or containers. All housing and high-pressure parts are made of high-strength stainless steel. The additionally hardened gears and the high-quality sealing system assure a long service life. The rotor is set in motion solely by the resulting recoil force of the high-

pressure water through nozzles positioned eccentrically in the body of rotation. The resulting rotational movement can be transmitted to the longitudinal axis via an internal special gear, so that the tank cleaning head undergoes a three-dimensional cleaning movement in the tank. The eddy current brake makes it easy to individually set the speed for each application scenario.

The TankMaster 500/200 Ex offers an economical and efficient solution for cleaning hazardous material tanks and other tanks in areas where there is a risk of explosion.

Technical data

Type	TankMaster 500/200 EX	TankMaster S	TankMaster SL	TankMaster L
Material number	9.914-584.0	9.899-844.0	9.899-845.0	9.917-766.0
Operating pressure (max.)	500 bar	1,500 bar	1,500 bar	1,500 bar
Flow rate (max.)	approx. 200 l/min	approx. 200 l/min	approx. 200 l/min	approx. 400 l/min
Medium temperature (max.)	70°C	95°C	95°C	95°C
Smallest insertion opening	Ø 128 mm	Ø 128 mm	Ø 130 mm	Ø 185 mm
Weight (without rotor)	approx. 12 kg	approx. 13 kg	approx. 9 kg	approx. 25 kg
Dimensions (L × W × H)	95 × 124 × 337 mm	96 × 124 × 338 mm	96 × 124 × 336 mm	117 × 178 × 413 mm

COMPONENTS

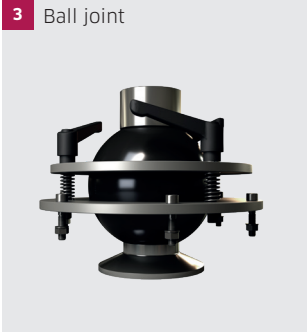
1 TV 5000 EX



2 Divided flange



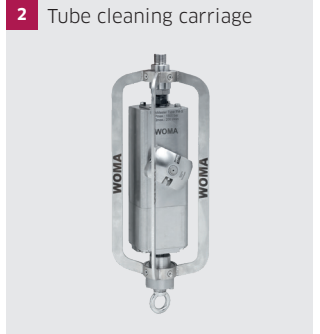
3 Ball joint



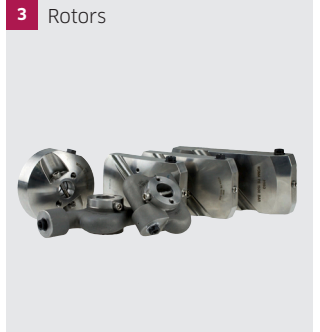
1 Impact protection



2 Tube cleaning carriage



3 Rotors



Positioning systems

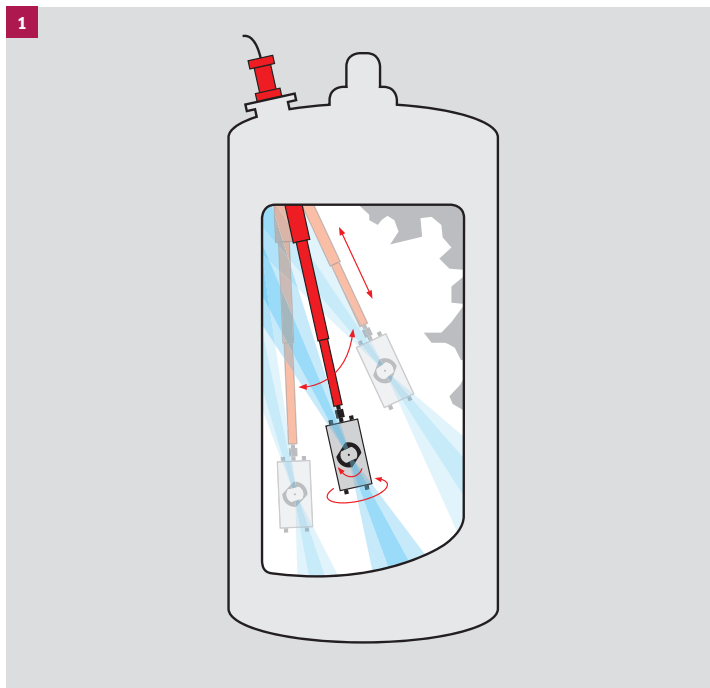
The TankMaster can be inserted into the tank attached to a high-pressure hose or fixed in the manhole opening using a positioning device. When cleaning tanks with a diameter of more than 15 metres, the tank washing heads must be inserted into the tank using positioning devices or decentralised service openings. Multiple tank washing heads can also be used for tanks with several openings. They can either be freely suspended in the tank or fixed at any point on it with the aid of a positioning device. A spray pattern as dense as possible of the tank cleaning head and its optimum positioning in the tank – without shadows – is essential for achieving ideal cleaning results and short cleaning times. WOMA's versatile positioning devices are available in different degrees of automation and tailored to almost any application for all versions of the TankMaster-Family available.

Accessories

With the extensive range of accessories, the TankMaster tank washing heads can be adapted for all cleaning application scenarios and container geometries. Even tanks of up to 15 metres in diameter can be easily cleaned with attachments such as extension arms. WOMA's tank cleaning accessories also include a wide range of rotors, hose connections and lances, stabilisation tubes, and impact protection devices.

Another area of application for the TankMaster series is the cleaning of large-diameter pipes. Whether in a vertical or horizontal direction, the TankMaster, by the aid of a pipe cleaning carriage, ideally adapts itself to any cleaning task. The well thought-out system of tank cleaning heads and accessories offers suitable components for all tank cleaning tasks, and for every container shape, size and accessibility.

FIELDS OF APPLICATION



- 1 WOMA positioning devices allow to place the TankMaster optimally in containers and tanks.
- 2 The challenging tasks of tank cleaning in industry are covered in a complete system.
- 3 With different rotors and extension arms, the WOMA TankMaster can be used flexibly.

Fields of application and an efficient solution for practically every industrial cleaning task

High-pressure water jet cleaning is a gentle and at the same time effective method for removing all kinds of impurities from tanks and containers, even in hidden corners. The requirements for cleaning tank interiors in many different industry sectors are diverse and just as varied as the countless adaptation possibilities of the TankMaster family. Interior cleaning is the core task of tank maintenance. Quick and thorough cleaning of storage tanks is crucial to ensure that the production process is disrupted as little as possible. The many different tank and container designs present a challenge for interior cleaning: size, diameter, material, horizontal or vertical orientation, the number, position and size of the openings, the design and size of the agitator. The WOMA TankMaster tank cleaning heads are the solution to all tank interior cleaning problems.

Gentle and effective with a broad range of applications in every area

- Cleaning of autoclaves in the chemical industry
- Chemical and bauxite industry
- Tanks in explosive areas (TankMaster 500/200 EX)
- Large-diameter pipe cleaning
- In short, the removal of all types of deposits in vessels, reactors, autoclaves, agitator vessels, silos, containers, tanks, and so on.



**Special requirements or
challenging applications?
Get in touch with us!**

WHATEVER THE TASK - WE HAVE THE SOLUTION.

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