TECHNICAL BULLETIN

TANKWASHERS

Efficient tank cleaning starts with the right tankwasher

Tank washers—also known as automatic tank cleaners or washing heads—are engineered to thoroughly clean industrial tanks, vessels, silos, and containers without manual scrubbing. They are widely used in industries where hygiene, safety, and process efficiency are critical, such as food and beverage, dairy, chemicals, pharmaceuticals, and transport tanks.

Key drivers for using tank washers

- Uniform and complete coverage, eliminating inaccessible areas.
- Reduced water and chemical consumption through efficient spray patterns.
- Minimised manual labour and operator exposure to residues or cleaning agents.
- Consistent and repeatable cleaning, especially within CIP (Clean-In-Place) systems.

Types of Tank Washers / Cleaning Heads

Static Spray Heads

- Fixed spray devices with non-moving orifices.
- Suitable for light-duty cleaning, smaller tanks, or applications where simplicity and reliability are essential.

Rotating Tank Washers

- A rotating spray head driven by fluid flow (hydraulic), mechanical drive, or reaction force.
- Provide controlled 360° internal coverage, making them ideal for medium to heavy-duty cleaning tasks.
- Available in various configurations, such as
    - Low-pressure rotating heads with dual-axis rotation
    - High-impact jet cleaners
    - Turbine-driven wash heads for large industrial tanks.

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Spray Angles - Tank Washers

Key Technical Specifications & Parameters

When using a tank washer, the following parameters must be considered:

Parameter	Technical Importance
Tank size (diameter/volume)	Determines whether a static or rotating washer is required; larger tanks typically need rotating or jet units.
Installation opening / access point	Compact units may be required for small manways or retrofitted installations.
Material	Stainless Steel 316L or PTFE for demanding or hygienic processes. Ensures corrosion resistance and compliance with food/pharma standards.
Operating pressure and flow rate	The flow rate determines the level of cleanliness. Insufficient and excessive pressure reduce cleaning efficiency.
Spray pattern and distribution	Multi-axis rotation or multi-nozzle structures ensure uniform tank coverage between 180° and 360°.
Self-cleaning design and maintenance	Minimises contamination risks, reduces downtime, and simplifies routine servicing.

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Conclusion

Tank washers play a vital role in modern industrial cleaning by delivering high efficiency, improved hygiene, and reliable cleaning performance. From small vessels to large storage or process tanks, properly selected and maintained tank washers ensure effective CIP operation, reduced downtime, and long-term cost savings.

With our extensive technical expertise, continuous commitment to innovation, and strong focus on quality, we support customers in selecting and configuring the optimal spray nozzle for their specific application. Whether the challenge involves abrasive fluids, varying viscosities, or complex process conditions—Textra Nozzles is ready to assist.

We supply durable, precise, and versatile spray nozzles that contribute to a more stable process, increased efficiency, and reduced maintenance costs.

Textra Nozzles: your partner for intelligent spraying solutions.

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