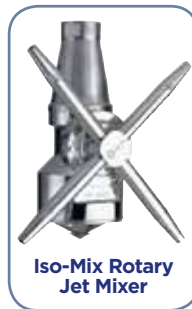
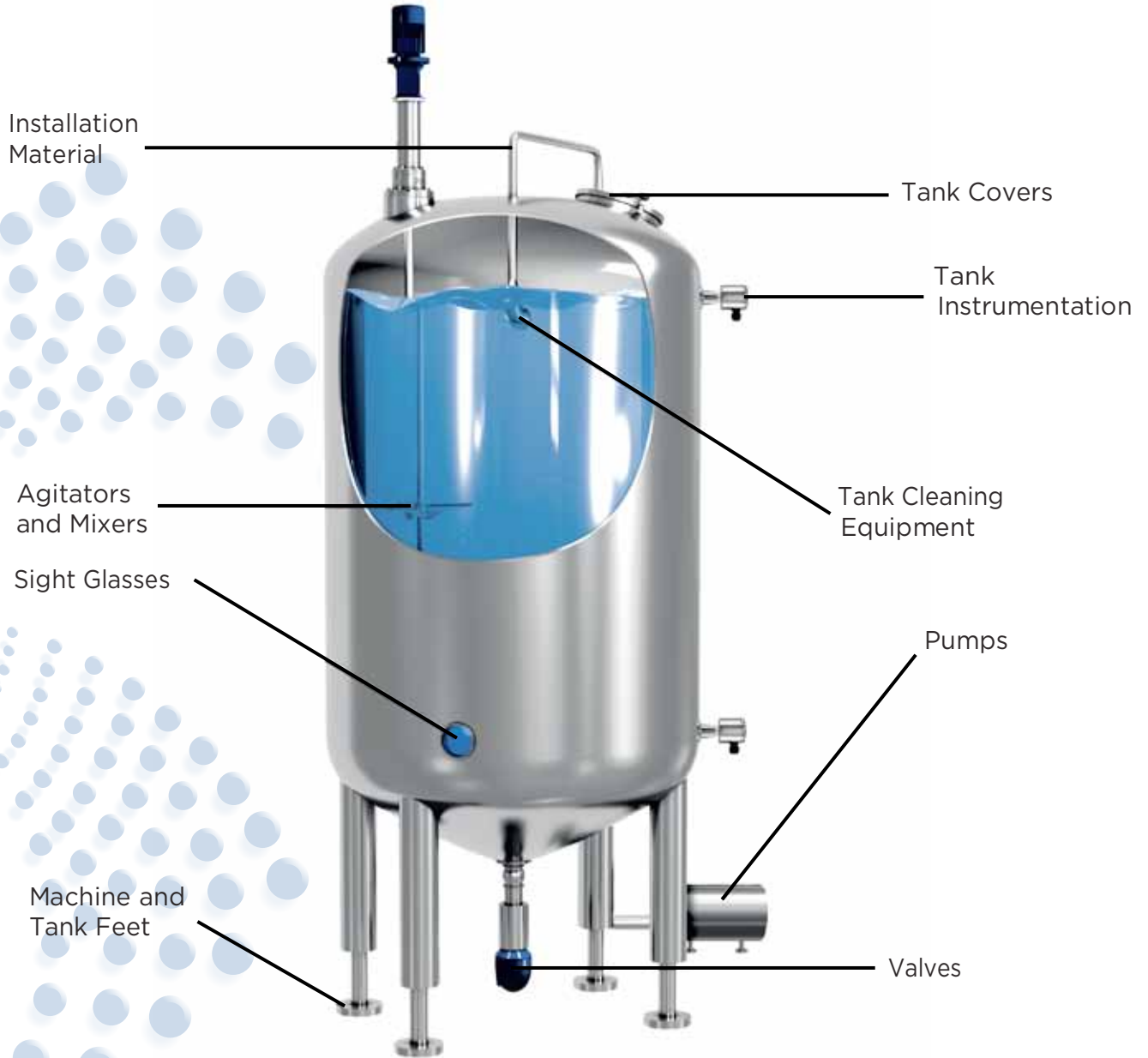


Tank Cleaning Technologies a division of  
**inTank Technologies Limited**

**THINK TANKS - Think inTank Technologies**



## TOFTEJORG ROTARY CLEANING HEAD



### Toftejorg SaniMicro

- Flow/Pressure: 1.5m<sup>3</sup>/h - 3.5m<sup>3</sup>/h @ 1 - 3 bar
- Vessel Size: 0.05m<sup>3</sup> - 1m<sup>3</sup>
- Impact/Wetting Radius: 0.6m - 2.5m
- Application: IBC's, Mixing Vessels, Process Vessel, Small Vessels, Vent Pipes.



### Toftejorg SaniMidget Retractor

- Flow/Pressure: 4.8m<sup>3</sup>/h - 9.5m<sup>3</sup>/h @ 2 - 5 bar
- Impact/Wetting Radius: 1.7m - 3.5m
- Application: Dryer Systems, Duct Work, Process Vessels,



### Toftejorg SaniMidget

- Flow/Pressure: 4 m<sup>3</sup>/h - 6m<sup>3</sup> @ 1 - 3 bar
- Vessel Size: 0.1m<sup>3</sup> - 10m<sup>3</sup>
- Impact/Wetting Radius: 1m - 3m
- Application: IBC's, Mixing Vessels, Process Vessels, Small Vessels, Vent Pipes.



### Toftejorg SaniMidget SB

- Flow/Pressure: 7.25m<sup>3</sup>/h @ 1 - 3 bar
- Vessel Size: 7.5m<sup>3</sup> - 22m<sup>3</sup>
- Impact/Wetting Radius: 1.4m - 3m
- Application: IBC's, Mixing Vessels, Process Vessels, Small Vessels, Vent Pipes
- Maintainable, 3A Approval, Slide Bearing Design



### Toftejorg SaniMagnum

- Flow/Pressure: 5m<sup>3</sup>/h - 18m<sup>3</sup>/h @ 1 - 3 bar
- Vessel Size: 5m<sup>3</sup> - 50m<sup>3</sup>
- Impact/Wetting Radius: 2m - 3m
- Application: Mixing and Storage Vessels, Bright Beer Tanks, Milk Silo's.



### Toftejorg SaniMagnum SB

- Flow/Pressure: 9m<sup>3</sup>/h - 15m<sup>3</sup>/h @ 1 - 3 bar
- Vessel Size: 68m<sup>3</sup> - 227m<sup>3</sup>
- Impact/Wetting Radius: 2.4m - 4.5m
- Application: Process Vessels, Bright Beer Tanks and Milk Tanks.
- Maintainable, 3A Approval, Slide Bearing Design



### Toftejorg SaniMega

- Flow/Pressure: 20m<sup>3</sup>/h - 29m<sup>3</sup>/h @ 2 - 4 bar
- Vessel Size: 50m<sup>3</sup> - 350m<sup>3</sup>
- Impact/Wetting Radius: 3m
- Application: Large Dairy Silo's Large Storage Vessels.



### Toftejorg SaniMega SB

- Flow/Pressure: 20m<sup>3</sup>/h - 29m<sup>3</sup>/h @ 2 - 4 bar
- Vessel Size: 50m<sup>3</sup> - 350m<sup>3</sup>
- Impact/Wetting Radius: 2.3m - 6m
- Application: Large Dairy Silo's, Large Storage Vessels.
- Maintainable, 3A Approval, Slide Bearing Design

## TOFTEJORG ROTARY JET HEADS



### Toftejorg TJ20G

- Flow/Pressure: 5m<sup>3</sup>/h - 15m<sup>3</sup>/h @3 - 8 bar
- Vessel Size: 15m<sup>3</sup> - 150m<sup>3</sup>
- Impact/Wetting Radius: 4m - 14m
- Application: Sanitary, Personal Care, Brewing Distilling, Dairy



### Toftejorg MultiJet 25

- Flow/Pressure: 5m<sup>3</sup>/h - 15m<sup>3</sup> @3 - 8 bar
- Vessel Size: 15m<sup>3</sup> - 150 m<sup>3</sup>
- Impact/Wetting Radius: 4m - 14m
- Bead Blasted Finish
- Processing, Storage and Transportation Tanks and Vessels



### Toftejorg TZ-74

- Flow/Pressure: 11m<sup>3</sup>/h - 32.5m<sup>3</sup>/h @3 - 12 bar
- Vessel Size: 50m<sup>3</sup> - 500m<sup>3</sup>
- Impact/Wetting Radius: 4m - 17m
- Application: Sanitary, Brewery Fermenters, Brewhouse Vessels/Mash Tun



### Toftejorg MultiJet 40

- Flow/Pressure: 10m<sup>3</sup>/h - 30m<sup>3</sup>/h @3 - 12 bar
- Vessel Size: 50m<sup>3</sup> - 500m<sup>3</sup>
- Impact/Wetting Radius: 4m - 17m
- Bead Blasted Finish
- Large Storage, Mash Tun, Biofuel, Fermenters



### Toftejorg TZ-89

- Flow/Pressure: 1.2m<sup>3</sup>/h - 4m<sup>3</sup>/h @2 - 7 bar
- Vessel Size: 0.5m<sup>3</sup> - 50m<sup>3</sup>
- Impact/Wetting Radius: 2.5m - 7m
- Application: Sanitary, IBC Cleaning, Smaller Mixing Vessels, Portable Vessel Cleaning.



### Toftejorg TZ-79

- Flow/Pressure: 17m<sup>3</sup>/h - 51m<sup>3</sup>/h @3 - 12 bar
- Vessel Size: 250m<sup>3</sup> - 1250m<sup>3</sup>
- Impact/Wetting Radius: 5m - 26m
- Application: Large Brewery Fermenters. Large Storage Vessels



### Toftejorg SaniJet 20

- Flow/Pressure: 1.6m<sup>3</sup>/h - 6m<sup>3</sup>/h @3 - 18 bar
- Vessel Size: 0.5m<sup>3</sup> - 30m<sup>3</sup>
- Impact/Wetting Radius: 1.5m - 4m
- Application: Sanitary. Ultimate Low Volume Rotary Jet Head for the Pharmaceutical Industry.



### Toftejorg SaniJet 25

- Flow/Pressure: 5m<sup>3</sup>/h - 15m<sup>3</sup>/h @3 - 8 bar
- Vessel Size: .15m<sup>3</sup> - 150m<sup>3</sup>
- Impact/Wetting Radius: 4m - 14m
- Application: Sanitary. Ultimate Rotary Jet Head for the Large Pharmaceutical Vessel.

## FIXED SPRAY BALLS AND DIP PIPE ASSEMBLIES



### Standard Spray Balls

Spherical Spray balls available in standard 360° and 180° upwards, downwards and side spray patterns.

Available in clip on, threaded or weld on connection.



### Static Spray Balls

Thick Walled or Target drilled thick wall variants, drilled to specifically suit the application and the available flow/pressure.

Available in clip on, threaded or weld on connection.



### Mushroom Spray Balls

Mushroom Balls allow for an increased number of upward facing holes to be drilled. Target drilled to suit individual applications.

Available in clip on, threaded or weld on connection.



### Dip Pipe Assemblies

Bespoke fabrications including Adaptors, Connections, Dip Pipe Assemblies, Removable Lances, Spray Balls, Manifolds

## INSTRUMENTATION AND ACCESSORIES

### Weighing System



### Rotacheck



### Flow Transmitter



### Manway



### Pressure Gauge



### Level Switch



### Potentiometric Level Transmitter



### Tank Feet



## ENSAFOIL ENERGY SAVING AGITATORS



### ALTB Top Mounted with Bottom Support

- Mixing, Dissolving, Solid Dispersion & Suspension, Heat Transfer.
- Radial, Flushed & Dry Running Mechanical Seal Options.
- High Sanitary Bearing & Impeller Connection, Lantern Spacer, Bearing Frame, Oil Trap Options.



### ALT Top Mounted

- Mixing, Dissolving, Solid Dispersion & Suspension, Heat Transfer.
- Radial, Flushed and Dry Running Mechanical Seal Options.
- Modular Design Includes; Impeller Connections, Lantern Spacer, Bearing Frame, Oil Trap Options.



### ALB Bottom Mounted

- Mixing, Dissolving, Solid Dispersion & Suspension, Heat Transfer.
- Cone Shaped and Fully Draining Tank Flange.
- Options Include; Fluid Trap, Single & Double Mechanical Seals.

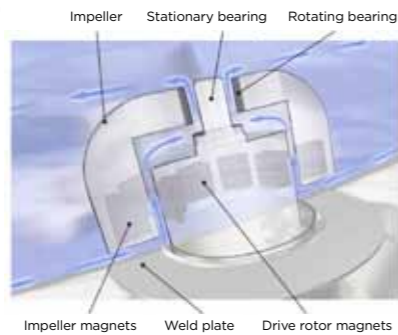


### ALS Side Mounted

- Maintaining a Homogeneous Media, Heat Transfer.
- Single & Double Mechanical Sealing Options.
- Options Include; Externally Detachable Shaft, Lantern Spacer, Bearing Frame, Oil Trap.

## MAGNETIC MIXER

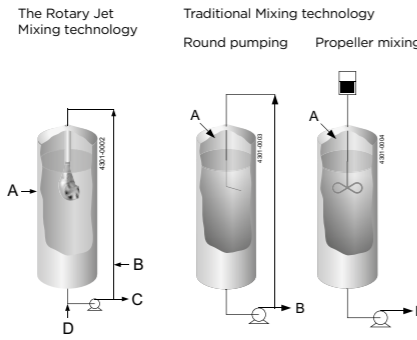
### MM UltraPure Magnetic Mixer



Patented Magnetic Mixer with levitating internal impeller and external drive head for aseptic applications. The magnetic coupling ensures the impeller is fully levitated within a strong magnetic field rather than resting on the guide bearing. Eliminating axial contact and friction, allowing the mixer to operate at any level and mix to the last drop.

## ISO-MIX ROTARY JET MIXER

### Iso-Mix Rotary Jet Mixer



The Patented Rotary Jet Mixer provides fast and effective mixing, positioned below the liquid level in the tank. The mixer is driven by the flow of recirculated liquid from an external loop. Rotation in two axis provides 360 degree mixing. Additional equipment in the recirculation loop allows powder/gas dispersion and heating/cooling of the tank media.

### TRAX Simulation Showing Wetting Intensity

2 cycles, 1.9 minutes  
The simulation shows the cleaning pattern after 1.9 minutes.

4 cycles, 3.8 minutes  
The cleaning pattern becomes progressively denser as the cleaning media covers more and more of the tank's internal surfaces.

6 cycles, 5.7 minutes  
After 6 cycles, wetting intensity has increased and coverage is almost total.

8 cycles, 7.8 minutes  
After 8 cycles or 7.6 minutes, the entire internal surface area of the tank has been impacted by the cleaning media and wetting intensity is at a maximum.

The above simulation is based on using the Toftejorg rotary jet head TG20G

## TRAX/CAS SIMULATION PROGRAM

TRAX Simulation software allows inTank Technologies to validate and optimise the complete CIP process by optimising the three key parameters for cleaning any tank.

- Wetting intensity in  $l/m^2$ .
- Pattern mesh width in mm.
- Transversal speed in m/sec.
- Identifying and avoiding shadow areas.
- Minimising cycle times and usage.
- Maximise CIP coverage across the vessels internal surfaces.
- Guaranteeing repeatable performance.
- Identifying and avoiding shadow areas.
- CAS selection and positioning tool enables inTank Technologies to:-

Ensure the optimum CIP head selection, quantity and positioning for each application.  
Calculate required cleaning radius and dip pipe lengths.  
Calculate the payback time.

## SERVICE AND SUPPORT

### SERVICING

Our workshop facility is fully equipped to enable fast and efficient servicing and repairs for all types of cleaning head technology.

### SPARE PARTS

Our parts department carry a full range of genuine spare parts to support our full product range. Focused on minimising customer downtime.

### ENGINEERING

Bespoke fabrication including adaptors, connections, Dip Pipe assemblies, removable lances, spray ball manifolds developed specially to suit the customers application. Enabling the installation of automatic CIP and Mixing technology into any process application, which is our speciality.

### ON-SITE SUPPORT

- Engineering support during commissioning.
- On-site training for your maintenance team.
- Site survey's enabling a full CIP and Mixing optimisation document to be written including pay back calculations and an optimised CIP cycle programme.



inTank Technologies was formed to support the complete tank focused product range that Tank Cleaning Technologies currently brings to the UK process industry. Specialising in providing the latest in Toftejorg Tank Cleaning Equipment, Energy Saving Agitation, Iso-Mix Rotary Jet Mixers, Magnetic Mixers, Instrumentation and Tank Accessories to the UK process industry.

As one of the UK's leading process industry suppliers, inTank Technologies products has to be the most comprehensive and innovative in the world. With over 75 years of experience supporting the Brewing, Distilling, Beverage, Dairy, Food, Pharmaceutical, Chemical, Paper and North Sea Offshore industries, this has enabled inTank Technologies to develop and bring a unique product portfolio to the UK process industry that offers the best in carbon footprint minimisation low cost of ownership and high quality performance.

Whether you need a Spray Ball or a Rotary Jet Head, any configuration of Agitator, a unique mixing system, tank fittings or the best in intelligent instrumentation to control the tanks process performances. inTank Technologies can offer the complete package with all of the required in depth technical support to guarantee commissioning is a success first time.

## OUR MISSION STATEMENT

A 'whatever it takes' ethos forms the foundations of our commitment to our customers.

Establishing long term partnerships, technically supporting customers, whilst developing honest, reliable and trustworthy relationships.

inTank Technologies works hard to be the UK's leading tank focused product supplier to the UK process industry, whilst maintaining our reputation for first class commitment to our customers.



Tank Cleaning Technologies a division of

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