



- **STEP-BY-STEP WASHING SYSTEM
WITH ROTARY TABLE
[NEHUS-TR] MODEL**



**A Worldwide Experienced Team
Generating
World Class
EXCELLENT TECHNOLOGY**



Sand it!



it's clear!



Automation!

WASHING PLANT POSITIONED WITH ROTATING TABLE

These systems allow to **process parts directly on board the work islands avoiding costly packing and transport operations**. The transfer of the pieces takes place thanks to a transfer system with rotating satellites operated by a **mechanical rotating table which guarantees satellite positioning at loading / unloading**. Considerable flexibility in the change of customized piece holders and a possible repositioning of the spray and blowing ramps that allows a total retooling of the system in a very short time (15 min). In addition to the LPS TR systems, **they allow the rotation of the satellite on its vertical axis and the integration of the cycle in the rinsing phase**.

- Elimination of cartoning costs and transport costs
- Re-equipment of the plant in a very short time
- Number of satellites to be chosen
- Customized systems



These plants are fit for **the treatment, with aqueous detergent solutions, of:**

Critical machined parts (cock bodies, automatic actuators, burner bodies, water meters, a.s.o.);

Delicate parts with dead holes (friction flywheels, valve bodies, gas on-off valves, a.s.o.);

Pieces placed on automatic assembly lines for which is requested a perfect washing, blowing and drying process;

Hydraulic, pneumatic multichannel distributors;

Others.

TECHNICAL FEATURES



Fully manufactured in **stainless steel AISI 304**.

● **Washing cycles** which can be personalized according to specific request, anyhow utilizable: spray washings, compressed air positioned blowings, recirculating hot air drying.

● **Satellite transfer** by special stainless steel chain with proper stainless steel pinions.

● Bulkheads and partitions for each section.

● **Drainages** among washings-washings and washings-rinsings, in order to avoid bath mixings.

● Chutes under each treatment area for water recovery and downflow of the same into the corresponding tank, which is **precedently filtrated** on extractable net basket in stainless steel.

● **Revolving spraying ramps**.

Free eternal area with piece loading and unloading positions.

● **Insulated tanks** equipped with:

- electric heating
- thermoregulation probe
- tub drain tap
- sludge cleaning doors
- stainless steel pumps feeding spray manifolds
- inspection lids vapor-tight
- automatic level control and reset
- stainless steel inspection doors for treatment areas.

● **Accessories:**

- self-cleaning filters on the pump outlets
- cartridge filtrations and / or **magnetic filters**
- detergent **dispensers** and water economizers
- automatic gravity **oil separators**
- **ultrafiltration**.



We care!

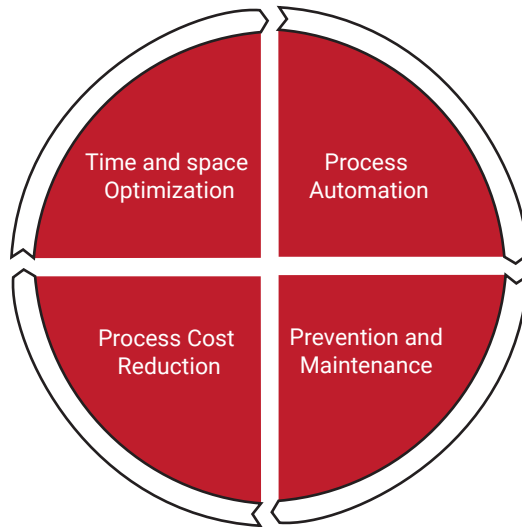
EFFICIENT ENGINEERING CONCEPT

Time and space optimization

- Plant Space Saving
- Cycle Time Optimization
- Process/Cost Reduction

Process cost reduction

- Water Saving
- Energy Saving
- Waste Reduction
- Disposal Reduction
- Part / Cost Reduction



Process automation

- Cycle Time Optimization
- Space Optimization
- Higher Productivity
- Labor Cost Reduction
- Part / Cost Reduction

Prevention and maintenance

- Cycle Time Optimization
- Higher Productivity
- Labor Cost Reduction
- Part / Cost Reduction

FRIENDLY SOLUTIONS FOR THE ENVIRONMENT

VAPOUR DAMPER
CONDENSATE THE VAPOUR
PRIOR EXHAUST

VAPOR EXTRACTION FAN

INDEX POSITIONS FOR
LOADING-UNLOADING

COMPRESSED AIR
BUFFER INSTALLED
AT MACHINE SIDE

SAFETY BARRIER IN CASE
OF MANUAL OPERATOR
LOADING-UNLOADING

FULL ACCESS TO SPRAY
MANIFOLDS AND NOZZLES



HMI 4" TOUCH PANEL

AUTOMATIC
DETERGENT REFILLING

ACCESS TO DRYING
MANIFOLDS

INTEGRATED
OIL SEPARATOR

LEVEL CONTROL FOR
AUTOMATIC REFILLING

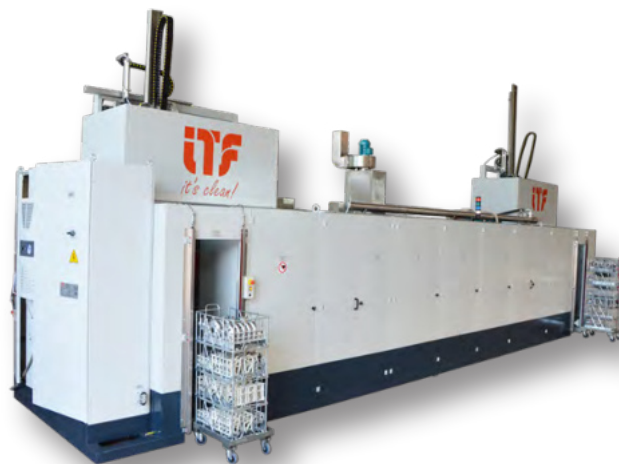
BY-PASS
FILTRATION



NOT JUST A PRODUCT BUT INTEGRATED SOLUTIONS AND SERVICES



Integrated brushing and washing systems



Ultrasonic and spraying washing machines

I.T.F. has always been an example of Italian industry excellence in the field of surface treatment and finishing, since its foundation in 1979. With more than 6.600 units of machineries installed all over the world and many innovative patents in the portfolio, I.T.F. keeps improving the industry standards by offering high technology integrated solution for industrial washing, shot-peening and deburring process. The know-how and on field experience, acquired during decades of constant activity, allow to provide the most suitable and efficient solution for each manufacturing plant, in compliance with environmental and operator safety laws. Thanks to the companies of I.T.F. Group, we can offer more than just a product but integrated solution and services.



Grit-blasting and shot-blasting machines



Robotic waterjet deburring plants



Handling and testing & assembling solutions

