



TRITON
ADVANCED SEARCH

SURFACE TREATMENT SOLUTIONS

MACHINES FOR VALVES, FITTINGS AND TAPS



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In these sectors the cleaning of the product is crucial, both in the case of a final washing, or in the case of an intermediate cleaning. For these purposes the manufacturers use washing cycles with or without aqueous detergents, with spraying machines, by immersion with hydrokinetic action or with the insertion of ultrasound, to meet different needs. TRITON has served over the years various industrial companies operating in these sectors, gaining the experience and the technology to propose innovative solutions, alongside the systems already known to the operators.

HYDROKINETIC MACHINE WITH STEP BY STEP CONVEYOR BELT

This system employs a special conveyor belt with partitions, able to perform ascent and descent paths through the various stages of treatment. The washing is performed by immersion with hydrokinetic action that ensures the quality of the result also in presence of deep cavities, blind threads, complex geometries. Main characteristics of this model:

- linear design for an easy insertion into existing production lines and up to 4 seconds per piece



- no limit to the size and geometry of the parts and guarantee of an accurate washing and drying
- loading / unloading with robots or manually

REVOLVER TYPE MACHINE WITH ROTATING SATELLITES (PLANET)

The system consists of an inclined table "revolver" on which are mounted rotating satellites made entirely of high resistance plastic material. The table is moved in specific sequence of steps and is capable of processing a piece at a time coming straight from the machining center. The PLANET are produced in 6 or 10 satellites version, with single or double overlapped table. Thanks to the effect of a very strong hydrokinetic action, an high degree of cleanliness is ensured even on parts with complex geometries, blind holes, cavities. Main features of this model are:

- small dimensions and up to 3 seconds per piece
- 3 type of configuration for the satellites: $\varnothing 100 \times L. 100$, $\varnothing 150 \times L. 150$, $\varnothing 200 \times L. 200$
- complete absence of balloons or scratches on threads and machined parts of the piece

CABIN WITH ROTATING BASKET

The main characteristic of these machines is the possibility of combining in one chamber more dynamic actions thanks to the possibility to rotate the basket on its horizontal axis. The cabin with rotating basket allows the processing of any kind of pieces (including complex geometries) and any kind of small parts, to be treated in bulk. For delicate items is foreseen a fixed positioning, with the locking guaranteed by a special "lid" placed at the cabin filling level.



MACHINE WITH ROTATING DRUM

The rotary drum washing machine is ideal for treating pieces of small and medium dimensions in bulk. This system finds its ideal application in turning, threading, stamping and deep drawing processes. The pieces are loaded in bulk, manually or by means of automated feeding systems.



MACHINE WITH STEP BY STEP ROTATING TABLE

The characteristics of this machine are: interface versatility with automation systems, mechanical precision, high quality result, production efficiency, small size and ease of integration into existing production lines. The principle of operation foresees a table with multiple positions (typically 4-6-8) that rotates in timed angular movements, carrying the pieces to be washed in as many stations as required by the treatment operations cycle. The loading and unloading of the pieces, can take place in one location or in two adjacent positions and can be done manually or with robots. Inside, in the various partitions, the different equipments for spraying have their place. The system can operate with medium-high pressures, to carry on normal washing operations, or calibrated type with masks, or automated treatment operations. The process can be only washing-drying or with more rinses with or without demineralized water.

