



# EQUIPMENTS FOR THE SURFACE TREATMENTS

## Offices and technical services :

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## COMPANY PRESENTATION

Borned in 1976, **CEEVER srl** is an Italian company specialized in the production of surface treatment equipments. The long experience allow us to produce different machines in order to satisfy the most difficult requests from the point of view of **treatments** and **automation**. Here below there are some equipments dealing with our production.



**Sprymaster** washing machines, with or without rotary table, are **spray cleaning cabinet** suitable for de-greasing, rinsing, protecting and drying treatment on various parts that cannot be subjected to a continuous cycle. In order to rationalise the cycle it is possible to use technical

devices such as de-oilers, filter, de-swarfers and everything else that will improve treatment. Six different standard models are available (see specific brochure) as well as special models designed to Customers' specification.



Ceever produces belt, pitch, calibrated washing, pallet or drum recirculating, overhead conveyor, constant flow, etc. **Tunnel sprying plants** for constant washing with watery solutions. These plants are particularly suitable for parts with a wide range of shapes and sizes

and for **continuous productions**. Some of the problems solved by the Ceever tunnel involve: valves, engine components, pumps, sumps, gears, mechanical parts in general, pots and pans and household equipment, etc



**Carrousel Plants** are spray cleaning machines made in a circular shape in order to **load and unload** the parts to be treated in the same place. The following chemical/physical treatments can be carried out: washing, de-greasing, phosphating, drying, passivation and oiling. The equipment can work **continuously** or by **step**.



**Screw washing plants** are particularly suitable for the **continuous** and bulk treatment of glass, nuts and bolts and small metal parts, etc. The continuous and slow rotation of the screw allows the dipped parts to move under the constant spraying effect, removing any grease or swarf and drying them perfectly.

The CEEVER screw treatment consist of a double **immersion and sprying** cycle. This special treatment (immersion and spraying) is used to give total and deep washing and to decrease the impact between one part and another, preventing them from becoming dented. The optional moplén screw gives further safety and guarantees that the parts will come out of the process completely dent free



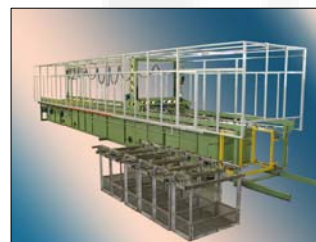
The **Hydro-Kinetic plants** carries out a multi-phase treatment (de-greasing, de-swarfing, rinsing, protection, drying) in one single chamber. The treatment, using **watery solutions**, is the most suitable solution to de-swarfing and de-oiling problems concerning a wide variety of mechanical parts with various different shapes. Constant filling and emptying of any holes by the chemical solution, plus the **physical spraying action**, spraying just below the water-level using perforated pipes and the **rotation** of the drum on its own axis, produce the hydro-kinetic, effect. This system solves problems involving parts such as bed-plates sumps, oleo-dynamic distributors, taps gears and small precision parts. At the end of the cycle it's possible to have a **drying** by air or **vacuum**.



Washing machines in the **Agito series** operate with an **immersion** working cycle with alternated vertical agitation of the drum which houses the parts. Agitation of the immersed drum, together with the chemical action of the product, improve the washing operation. The **agitated washing process** is the solution for all those parts that are not produced continuously, a problem than can, in any case, be solved by **multi-phase agito** version where the individual tanks are aligned by means of roller conveyors. The oil carried by the washing process is removed from the tank by means of a level spillway or a de-oiler. These machines can be made in carbon or stainless steel and have optional features such as perimeter suction, spraying circuits and many more.



**Compact US** and **Special US** are cleaning machines composed by basins equipped with **ultrasound** transducer. Available with or without **agitators**, they can be combined with other tanks for various, other treatment such as rinsing, passivation and automatic or semi-automatic drying. All the machines are made by stainless steel with heating and insulation.



Machines in the **Robot series** are often suitable for treatments like: **phosphating, burnishing, polishing** and **galvanic** treatments. All the machines are composed by multiple basins, one or more automatic transport trolley for the basket's movement and a covering gallery. The **covering gallery**, assembled on the treatments basins, avoids any fume's diffusion, reduces the noises and avoid the direct contact between the workers and the chemical substances.



**Bit** and **Bit Special** are **peening** - **sandblasting** automatic, semi - automatic or manual machines. These machines allow to work with pickling agents composed of glass, ceramic micro-balls, corundum etc. It's possible to produce special machines for very big parts and automatic

machines by circular transfer.



Due to the new environmental regulations dealing with the chlorinated solvents, Ceever has developed and patented the new equipment **serie CK** working with **hydrocarbon solvents**. The machines are usually composed by the cleaning chamber, 1 or 2

tanks, and one vacuum distiller. The cleaning chamber has usually a longitudinal axis **rotary structure** located on the inside : this structure allows the rotation of the parts. The **vacuum distiller** allows to clean always with a fresh solvent and allows to have a **closed circuit machine**. The treatment cycle is usually composed by pre-washing, rinsing and vacuum drying.



The new regulations about the emission of chlorinated solvent have taken to develop these new **Serie CP** vacuum machines that can work with **chlorinated solvent** without any problem of external emission. The machines are usually composed by the cleaning chamber, 1 or 2 tanks,

and one distiller. The cleaning chamber has usually a longitudinal axis **rotary structure** located on the inside : this structure allows the rotation of the parts. The **distiller** allows to clean always with fresh solvent and allows to have a **closed circuit machine**. The treatment cycle is: pre-washing, washing and vacuum drying. The machine is equipped with carbon filters and its own regenering system.

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