NICOMAC SYSTEM













9 patented systems

15 new devices and

novelties

4.500m² of productive site

1.800+ successful projects

65 Countries served

45 years of experience Nicomac Europe is one of the leading companies in the international clean room and equipment for oral solid departments. Founded in 1977 in Milan, Italy, in over half a century successfully realized over 1800 projects in 65 Countries in the world, supplying clean rooms, coating systems and granulators that can also be under isolator.

The excellence in quality and products, along with the support of an expert and prepared team, are the foundation of the results obtained by Nicomac Europe and the satisfaction of its clients, many of them FDA/ EMA approved.

NCS SUPERIOR A NEW WAY OF THINKING PELLETS AND TABLETS COATING SYSTEMS

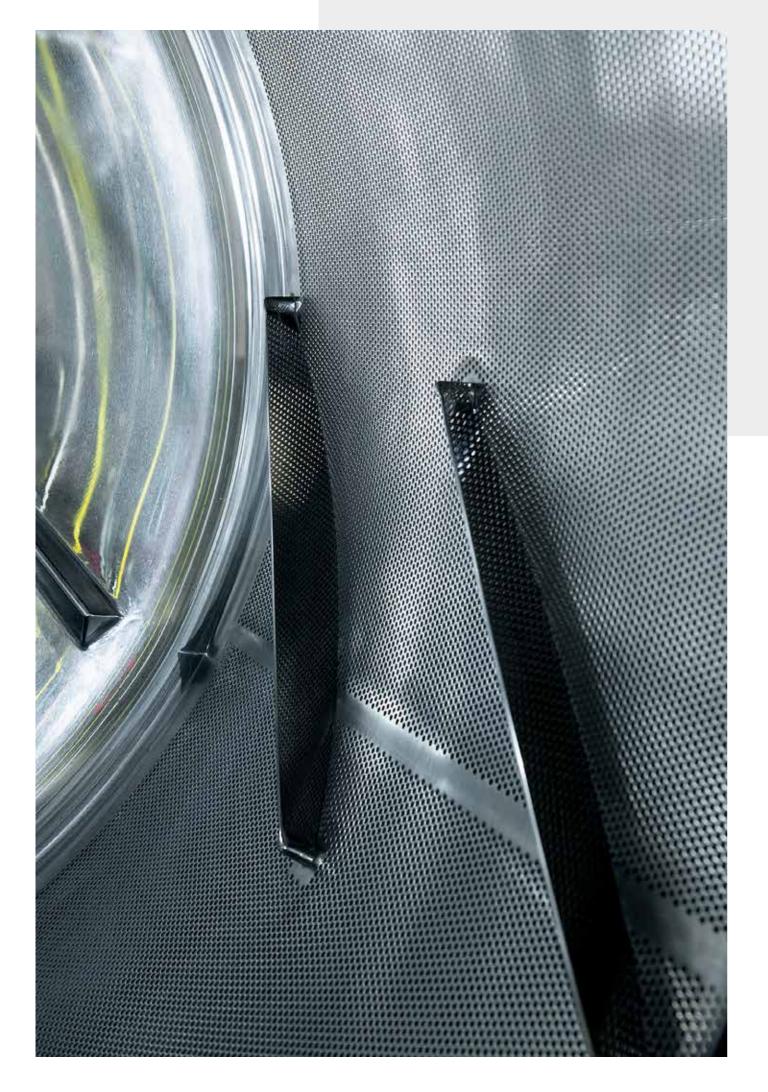
NCS Superior represents the latest technological innovation, the *state of the art* of coating systems, a development based on Nicomac Europe's experience in the industry, which lasts more than 45 years. NCS Superior is available in two models: PSC- Perforated Super Coater and SWC Solid Wall Coater. Our Company is the only one in the world that offers high performance coating systems with a perforated or solid drum with a unique design, innovative solutions and high reliability.

Nicomac Europe's systems stand the test of time: proof to this is a coating machine that for 30 years has been working efficiently and without problems at Euronovis, a Nicomac Group company specialized in third party coating and granulation for the nutraceutical industry.











MIXING

An optimal mixing is the base for perfect core coating, a process that requires the homogeneus solution and drying air distribution.

Nicomac Europe, thanks to its in-depth studies and operative tests, created highly efficient mixing baffles.

- Blade-like baffles with exclusive design for perforated drum systems in order to minimize hole cover space and ensuring a perfect mixing in any conditions.
- 3D Shark Fin Baffles® for solid drum systems









PSC Perforated Super Coater

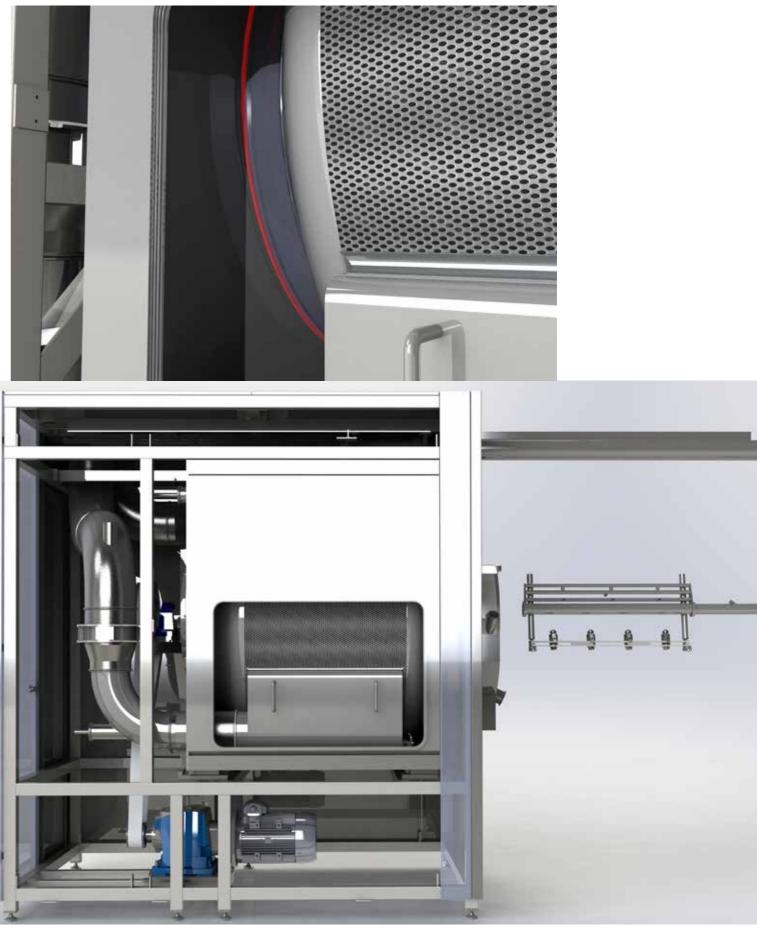


Blow Master Patent N. 102003901171946

FLEXIBILITY

The unique drum and baffles design, combined with the adjustable spray gun arm (patent N.102021000017075) allow every model of Superior coating system to work at a 15-20% minimum batch size, based on core type and formulation, up to 100% without any changing.



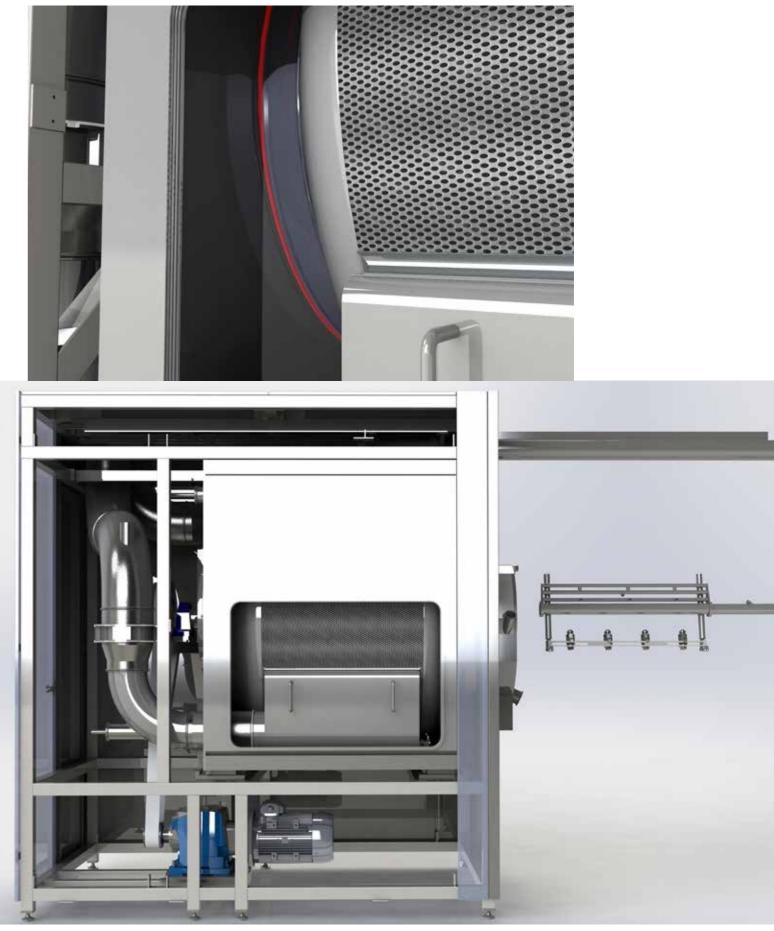


1. Drum (solid or perforated) 2. Nitrided Flange 3. Gasket 4. Chassis

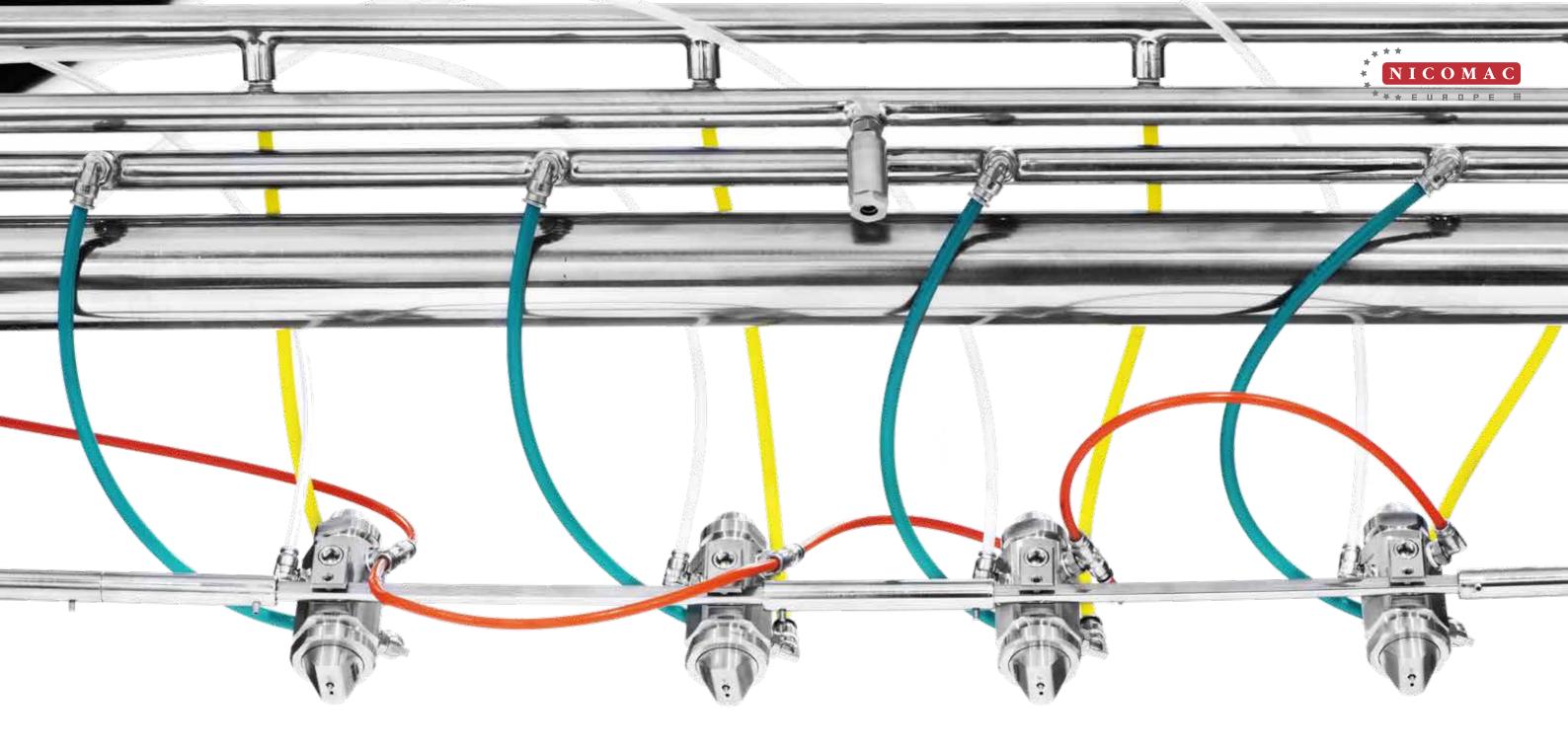
STRUCTURE AND HOLD

The Superior models are designed to ensure a perfect air and water tightness. The drum is sealed with two V energized gaskets.

AISI 316 stainless steel undergoes a special treatment that ensures superficial hardness and usury resistance; stability and hardness in high temperatures, resistance to carvings and excertions; corrosion resistance; dimensional stability and sealed drum during the washing phases.









SLIDING SPRAY GUNS ARM

The SCHLICK spraying guns are built on a sliding arm (patent N. 102021000017075) which, thanks to an electric motor, adjusts the distance in relation to the core bed depending on the batch capacity to work or process phase. The guns are completely built in AISI 316 stainless steel, have a compact design and the spray is perfectly automized and uniform. They also offer the automatic atomization and spraying fan regulation and do not clog. The ergonomic arm, adjustable in all directions, is removable from the front of the coating system.



TEMPERATURE CONTROL

An optical pyrometer inside the sliding arm accurately tracks in real time the tablet bed temperature, adjusting in an automatic loop the spraying solution quantity.





PRODUCT UNLOADING

In 1993 Nicomac developed a unique and patented system to unload up to the very last tablet simply by reversing the drum rotation. A simple operation that requires no tool, unloading through welded fixed slopes.



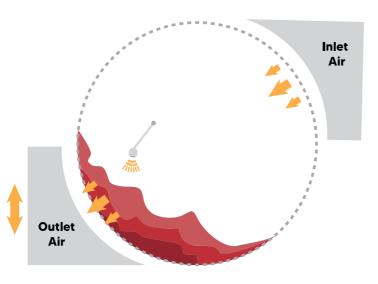


Film Coating peristaltic pump Watson Marlow



DRYING SYSTEM **PSC - PERFORATED SUPER COATER**

PSC has a perforated drum that allows a big quantity of air to invest the tablet bed. A dedicated air suction system, quickly interchangeable, allows to convey air where the tablets are placed according to the quantity of cores to process, ensuring drying efficiency in every condition with a consistent consumption reduction.



PSC Models						
LAB 1-3-5	SUPERIOR PSC 150					
LAB 10-40-75	SUPERIOR PSC 250					
SUPERIOR PSC 100	SUPERIOR PSC 400					
SUPERIOR PSC 700						

DRYING SYSTEM SWC - SOLID WALL COATER

Our Blow Master® drying system, patent N.102003901171946, is the result of years of continuous technical evolution and offers high yield, low loss of suspended product and no turbulence in the spraying zone, replicating the drying system of a perforated coating system. Blow Master® has an automatic regulation for blowing the air directly on the tablets according to the size of the processed batch.



SWC Models							
LAB 9.9	SUPERIOR SWC 200						
LAB 15	SUPERIOR SWC 350						
LAB 30	SUPERIOR SWC 450						
LAB 50	SUPERIOR SWC 650						
SUPERIOR SWC 100	SUPERIOR SWC 1.200						
SUPERIOR SWC 150	SUPERIOR SWC 2.300						





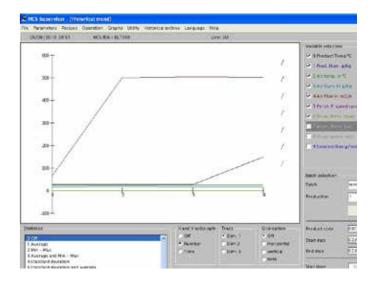


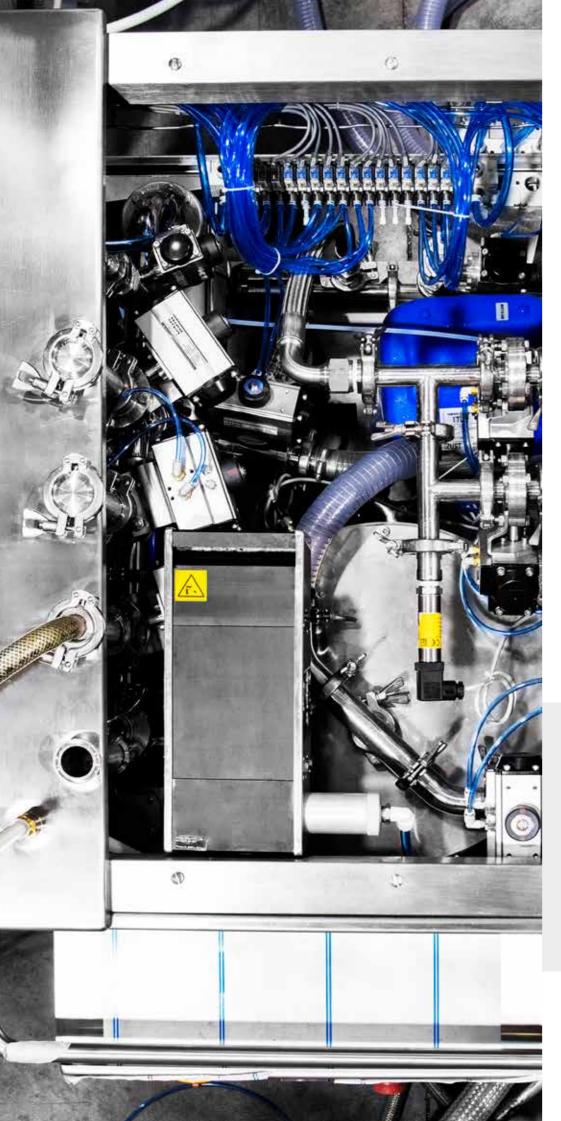
PC-PLC CONFIGURATION

The PC-PLC control system is developed with a user-friendly, CFR 21 part 11 compliant software equipped with many levels of password and can store up to 100 recipes, ensuring process repeatability. A synoptic allows to view all parameters, both the ones set in the recipe and the ones in real time. The control system tracks and adjusts: air reach, drum spins, negative

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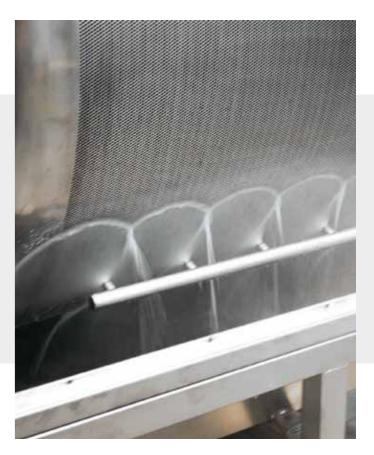
edge and cGMP compliant system ensuring a perfect cleansing. that can be used for all the cleaning processes that need validation, A wheeled skid contains a 10 bar system involves the possibility to components.





Years of experience in Washing and insert numerous recipes that allow Cleaning In Place technology allowed to automatically manage all washing, Nicomac Europe to creates a cutting- rinsing, fluid drain and drying phases,

resulting the best possible solution washing Pump, detergent Pump and for the cleansing of coating machines. tank, membrane drying Pump, pipes, On both models are installed many actuators, valves, membrain pump sprayballs that allow an accurate to eliminate waste fluids, Control washing in every place. The control Panel with pneumatic and electronic



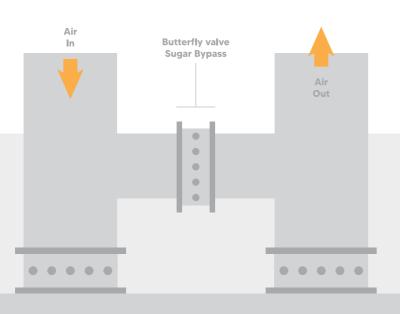
NCS - NICOMAC COATING SYSTEM

SOLID WALL COATER THE IDEAL SUGAR COATING SYSTEM

PNEUMATIC PUMP & *BY-PASS*

The sugar coating by-pass is used to keep costant the product temperature during the pause phases. the fan remains functioning, while the inlet air flow is directed, thanks to a by-pass with three valves, right towards the outlet air duct without passing from the drum. The pneumatic pump, with a 1:30 ratio, allows to spray sugary solutions with concentrations up to 80%.









SUGAR GUNS

A special model of AIRLESS guns allows, thanks to the high pressure, to nebulize the solution in an homogeneus way on the cores. The solution is recycled in order to avoid crystalizations during by-pass phases and in every case where the spraying is not active.









PELLETS



MULTIFUNCTIONALITY

Pellets, tablets, multivitamins, rigid and soft capsules, complex shaped cores: these are the products that can be processed on the SWC coater, uniformly, in quick times and at the maximum quality.







The SWC model is capable of working with an automatic process any size of pellet. Starting from a sugar crystal, with a combination of binder spraying and automatic powder dosage of the active principle, high quality finished pellets are obtained.







EASY COATER

Easy Coater has the same features of the SWC equipment, but has a more compact design that requires less space and ensures quick installation times at a competitive price. The PLC-PC touch screen system is positioned on a movable arm, while the AHU and control panel are integrated in the strumentation box. Furthermore, the system is equipped with last generation spray guns, 3D Shark Fin® baffles and Blow Master® detachable in two parts.



EASY 100

EASY 200

EASY 350









Nicomac Europe ensures a support of the highest professional level through the partner EURONOVIS, GMP certified for the nutraceutical market, research and development and for every type of test. Recipe development consulting, tests on machines from 1 to 400 kg., cosmetic, controlled release enteric-coated, sugar coating processes and a wide chromatic range for RAI color choices. Friability, hardness and disintegration tests.

885885+ 558855

R&D





NA







GET IN TOUCH

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