



Nicomatic Coating Systems... TURN-KEY SOLUTIONS FOR COATING PROCESSES

The Nicomatic Coating System (NCS) combines a unique design with unmatched coating performance and versatility for today's ever-evolving processing field. Our system has achieved worldwide success in both the Pharmaceutical and Confectionery industries. The following are just a few of the signature features that set us apart from the competition:

- **VERSATILITY** - Our systems are capable of performing **aqueous and organic film coating of tablets, pellet production, and sugar coating processes. Automatic powder dosing is performed either through dosing screw or electrostatic system.** Switching from film to sugar coating or tablets to pellets is easily accomplished in a relatively short period of time. With the Nicomac Coating System, you will be able to coat pellets, tablets, or granules all in one machine!



Pellets and tablets drying system

- **CAPACITY** - Whatever your capacity requirement may be, we have a model to fit your application. Models range from a laboratory scale capacity of 10 liters up to a full manufacturing scale of 2,300 liters (approx. 4200 Lb). Our systems are available complete with solution tanks and product storage containers.
- **DRYING SYSTEM** - Our highly efficient drying system forces 100% of the tightly controlled process air through the product bed itself for unbeatable performance. Turbulence in the spray zone is eliminated.
- **SHARK FIN BAFFLES** Our patented "3D Shark Fin Baffles" combine higher mixing efficiency with gentler product handling to result in improved coating uniformity, thus reducing overall process time.
- **MICROLAC CONTROL SYSTEM** - Our engineers have designed a user friendly PLC based control system for excellent process repeatability and interfaced it with an industrial PC for flawless data acquisition and storage. The Microlac software stores up to 40 different recipes with up to 99 discrete phases. Our latest software is 21 CFR Part 11 compliant.
- **SOLID WALL COATING PANS** - Our coating systems utilize a smooth, electro-polished, non-perforated, solid wall pan. The solid wall design combined with our unique drying system has unsurpassed coating performance without the cross-contamination, product loss or abrasion usually associated with perforated pans. In addition, solid walls make for a more thorough and easier to validate cleaning process.





HUMIDITY CONTROL - Our primary process control is based on closed loop control of temperature and relative humidity of the air stream exiting the pellet bed. Depending on your application, we have the right process control algorithm available. For temperature sensitive products, pellet bed temperature is closely monitored and controlled. For established processes, control can be maintained by cycle timing or exit air temperature alone.

- **CLEANING** - Since our coating pans are not perforated, a fast and effective CIP (clean in place) cycle is easily achieved and cleanliness inspections are easy. Several spray heads are located inside the coating pan allowing maximum flow rates over the entire pan surface.
- **AUTOMATIC DISCHARGE SYSTEM** - This patented system unloads finished products as well as CIP fluids by simply rotating the pan in reverse. The process is fast, effortless, requires no human contact with the coated product, and avoids use of valves or hinged systems typically found on competitive brands.
- **INNOVATION** - Here at Nicomac, we are constantly working hard to stay "one step ahead" of the competition. Our commitment is evidenced by our release of four new designs in the last five years as well as several new devices for our coating pans.
- **COMPACT DESIGN** - In order for our customers to be able to make better use of their space, all process components (eg. pumps, piping, etc...) are contained within the machine enclosure. The unit also has separate operational and maintenance areas.
- **QUALIFICATION AND VALIDATION** - DQ (Design Qualification), IQ (Installation Qualification), OQ (Operational Qualification), SQ (Software Qualification), calibration, and documentation are available for complete validation of the equipment.
- **CUSTOMER SERVICE** - Our office provides spare parts and service for our entire line of equipment and can dispatch sales or service engineers as needed. Nicomac, Srl., maintains a technical support hotline and is available for on site or "on line" technical assistance in the usual prompt Nicomac way..



NCS Lab scale coating system

ASK ABOUT TRIAL TESTING THE NICOMATIC COATING SYSTEM!