



HANDLING & GRANULATION

INTRODUCTION

A CHOICE OF QUALITY

Passion, qualified expertise and professional staff have led Nicomac Europe to complete over 1500 successful installations in 60 countries worldwide. Along its 40 years of activities, Nicomac Europe has served among the most innovative companies in the pharmaceutical, electronics, nutraceutical and food business industries, of all sizes.



4.500_{m²}
of production site

1.500+
successful projects

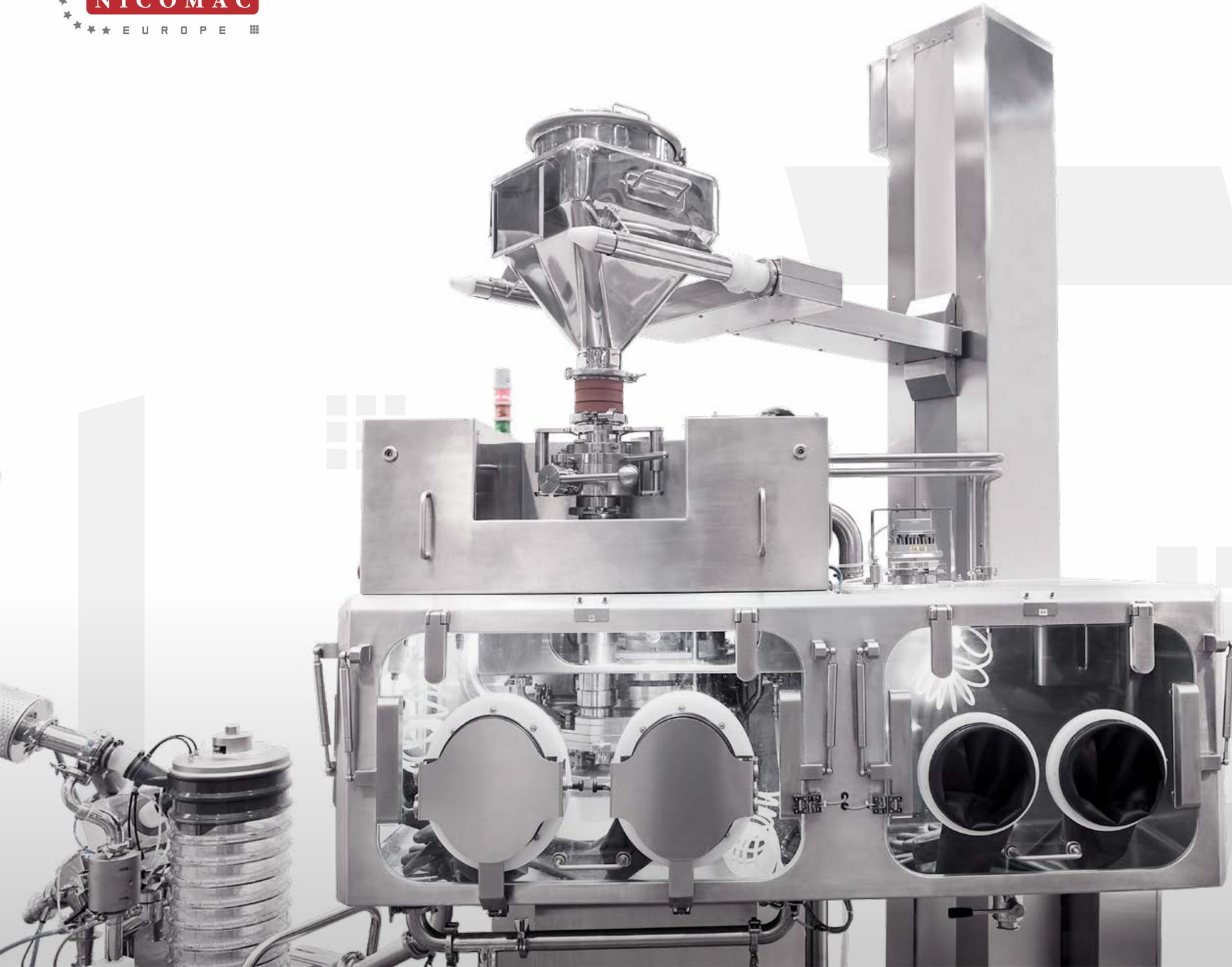
60
Countries served

40+
years of experience

DEVOTED TO THE BEST

Nicomac Europe is your supplier for a fully integrated powder handling and processing line. We have a strong commitment to continuous technology innovation and excellence to be your expert for solid dosage departments and to ensure you the result of the best quality product.

Each product has different characteristics and different requirements and Nicomac will design for you a customized layout and the suitable machinery on the basis of your product, your needs and your production plans.



A complete integrated production line can be designed following Total Containment System Standards. Flame-proof design are also available on request. All product contact parts are made in stainless steel SS 316, other materials and outer surfaces are made in Stainless Steel SS 304.



We design and produce connecting product chutes according to your room and equipment layout, providing active valve with pneumatic actuators and systems to prevent segregation and product breakage during discharge and to ensure even flow of sticky product.



FEATURES

VERTICAL PROCESS

Product flowing mainly downwards through several levels driven by gravity. The single process steps are either directly linked together or are interconnected by the use of a NicoBin IBC with docking station.

Nicomac Europe provides equipment, machineries and systems to transform fine powders into dust-free and bridge free granules easy to compress, with safe and reliable process, high quality manual and automatic docking system for charging and discharging powder and granules.

FEATURES

HORIZONTAL PROCESS

Manual or gravity system can be used for product flow. Pneumatic conveying system as well as mobile and stationary lifting and discharging system can be used. Solid dosage form layout may have different philosophy and/or configuration depending on how the link between the main process steps and product handling operations.

Our line includes:
Dispensing
High Shear Mixer





FEATURES

NICOMIX

It is a “high shear, high speed” mixer - granulator: to mix dry powders with an extremely high mixing efficiency. The high speed and the special design of the 3-blades impeller, located at the bottom of the bowl, force the powders into a three-dimensional vortex motion.

Wet Granulation

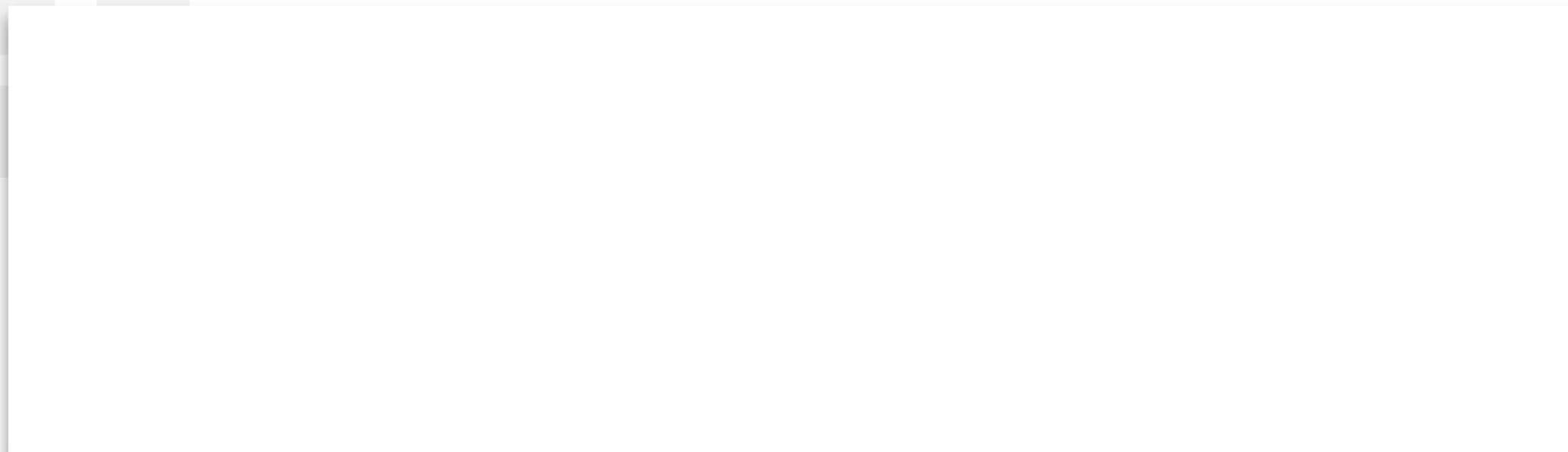
Adding liquid binder to get a high quality of granules thanks to the very high energy input transmitted to the powders by means of the special impeller profile together with the chopper avoiding the formation of lumps and giving the right particle size distribution.



Melt Granulation (optional)

Binder components are in a powder form and are melted by means of impeller action together with jackets system. Once the granulation process is ended, the product is completely discharged through the discharge valve.

contact us



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Cleanrooms, coating equipment and granulating machinery
Nicomac Certified Quality