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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://gea.nt-rt.ru/> || gsg@nt-rt.ru

МИКСЕРЫ И БЛЕНДЕРЫ NICA

Технические характеристики



NICA™ Pellet Processing

The NICA™ pelletizing system is a unique modular concept comprising a mixer/granulator, extruder and spheronizer, which can be supplied as a complete integrated pellet production plant or as individually selected units to meet your specific process optimisation requirements.

For maximum operational flexibility, the modules can be operated in either batch or continuous mode, as standalone units or with other up- or downstream equipment — such as fluid bed processing systems. Ideal for both product development and full-scale production, scale-up is easy; it's simply a factor of processing time.

NICA™ Extruder

Ideally suited for sensitive products that could be damaged by more intensive systems, the NICA™ Extruder is based on efficient, low-shear technology and is designed to minimise work input and temperature rise. A wide range of extrusion screen sizes and configurations are offered to optimise pellet diameter, surface quality and size distribution.

Used for both batch and continuous production, the NICA™ Extruder has no stagnant areas and no significant product hold-up. A compact design and small footprint facilitates installation and cleaning and, with a simple reconfiguration formulations that require a high level of work input can be processed.



NICA™ Spheronizer

The Nica™ Spheronizer features a smooth-edged, close-fitting friction wheel for good sphericity and a tight size distribution. This patented design eliminates edge-milling problems and the undesirable fines that are associated with traditional technologies. Process optimisation is achieved by selecting the appropriate cycle time, wheel speed, product load and friction pattern, and regulating the airflow past the wheel periphery.

The NICA™ Spheronizer is fed directly by the NICA™ Extruder and, for high volume applications, two batch spheronizers may be fed by a single continuous extruder. The versatile design is also easy to operate and clean.

Extrusion	E Connect	E140
Typical Production Rate	0.1–0.5 kg/min	0.5–2.0 kg/min
Minimum Batch Size	50 g	200 g

Spheronizing	S Connect	S320	S450
Typical Batch Range	50–250 g	200 g–1.0 kg	400 g–2.0 kg

Integrated Ease

Building on GEA's renowned integrated granulation systems, NICA™ is available as five fully equipped pelletization systems.

Based on the groundbreaking PharmaConnect™ technology, the IPS5 is a true mini-production machine for product development. Providing batch capacities from less than 50 g, you can now formulate small quantities of rare or expensive materials and test them with equipment that mimics production-scale machinery.

For small pilot batches of 250 g to continuous production at more than 25 kg/h, the IPS25 can be combined with the E140 and S450 modules to form an integrated system. Operating in manual mode, the user controls the dosing of the extrudate into the spheronizer and the overall spheronization time. Once optimised, these timings are automated to ensure product consistency from the first to the final pellet.

Further complementing the IPS range, the IPS50 combines an E140 and two S450s to produce pellets at rates of up to 50 kg/h, and the IPS100 incorporates the E220 and S700 modules to provide production rates of up to 100 kg/h. Similarly, the 200 kg/h IPS200 combines the E220 extruder with two S700 spheronizers.



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