

Gansons⁷⁵⁺

Better Solutions Since 1947



Gansons Nauta[®] Processor

Knowledge • Execution • Support

G⁷⁵⁺
Gansons

About Gansons

Founded in 1947, we are one of the world's oldest family-owned process equipment manufacturers. Through the course of our history, we have been at the forefront of industrial innovation. Today, over two billion person-hours of experience shape and refine every Gansons machine and service.

Gansons, an ISO 9001:2008 certified company, has multiple facilities across India with headquarters in Thane (near Mumbai). We have manufacturing facilities in Thane, Digha, and two in Nashik with a combined floor space of over 150,000 square feet.

To drive product innovation, we maintain our own Research and Development facility in Thane. This facility is supported by close relationships with leading academic institutions.

We have a global network of agents to support our clients from over 30 countries. Our commitment to excellence is built on our values of Passion, Perseverance and Perfection.

To quote one of our clients, "When you buy Gansons, you buy peace of mind."

Customer Support

At Gansons, we recognize that our clients need to maximize their ROI over the entire lifecycle of ownership. For our clients, machine downtime is not acceptable. To support them, we maintain a dedicated team of 20 service engineers.

Technical Support and Repair

Live and immediate technical support is available using all major communication tools. Local service engineers are available in selected locations.

Standard on-site response time:

- India: 24 hours
- Globally: 72 hours (conditions apply)

Installation and commissioning supervision is done by a single person for a seamless experience.

All our vendors are contractually required to adhere to the same service standards.

Value Added Services

We offer our clients value-added services so that they can run their machines with the highest efficiency over time.

- Operator training programs
- Process optimization and validation
- Annual maintenance contract
- Machine upgrade consultations



Gansons Nauta is brilliantly engineered to successfully achieve complete mixing of powders or pastes in a short time. **Gansons Nauta** demonstrates measured superiority in a wide range of processes.

Gansons is one of only three global official licensees of Nautamix B.V. (Holland). With over 1,000 **Gansons Nauta** sold over 40-plus years, Gansons is the only manufacturer that has comprehensive knowledge and experience across the broad range of applications that this extraordinary machine processes easily.

With its outstanding knowledge, execution, quality and customer support, Gansons is the best choice for your next Nauta.


C. J. Nauta

Gansons Nauta

Vast Knowledge and Experience for Over 40 Years

Gansons Nauta as a Mixer

The unique screw flight agitator, rotating on its own axis while orbiting the periphery of the conical tank, sets up three distinct intermixing currents in the batch at the same time. The result is the most comprehensive mixing action, even while mixing high viscosity materials and ingredients of widely different densities. The most fragile filaments and flakes are safe in **Gansons Nauta** because of its smooth and gentle mixing action.

Gansons Nauta is very successful in mixing pastes and plastisols. To achieve deaeration while mixing, **Gansons Nauta** can be equipped with vacuum.

Gansons Nauta as a Processor

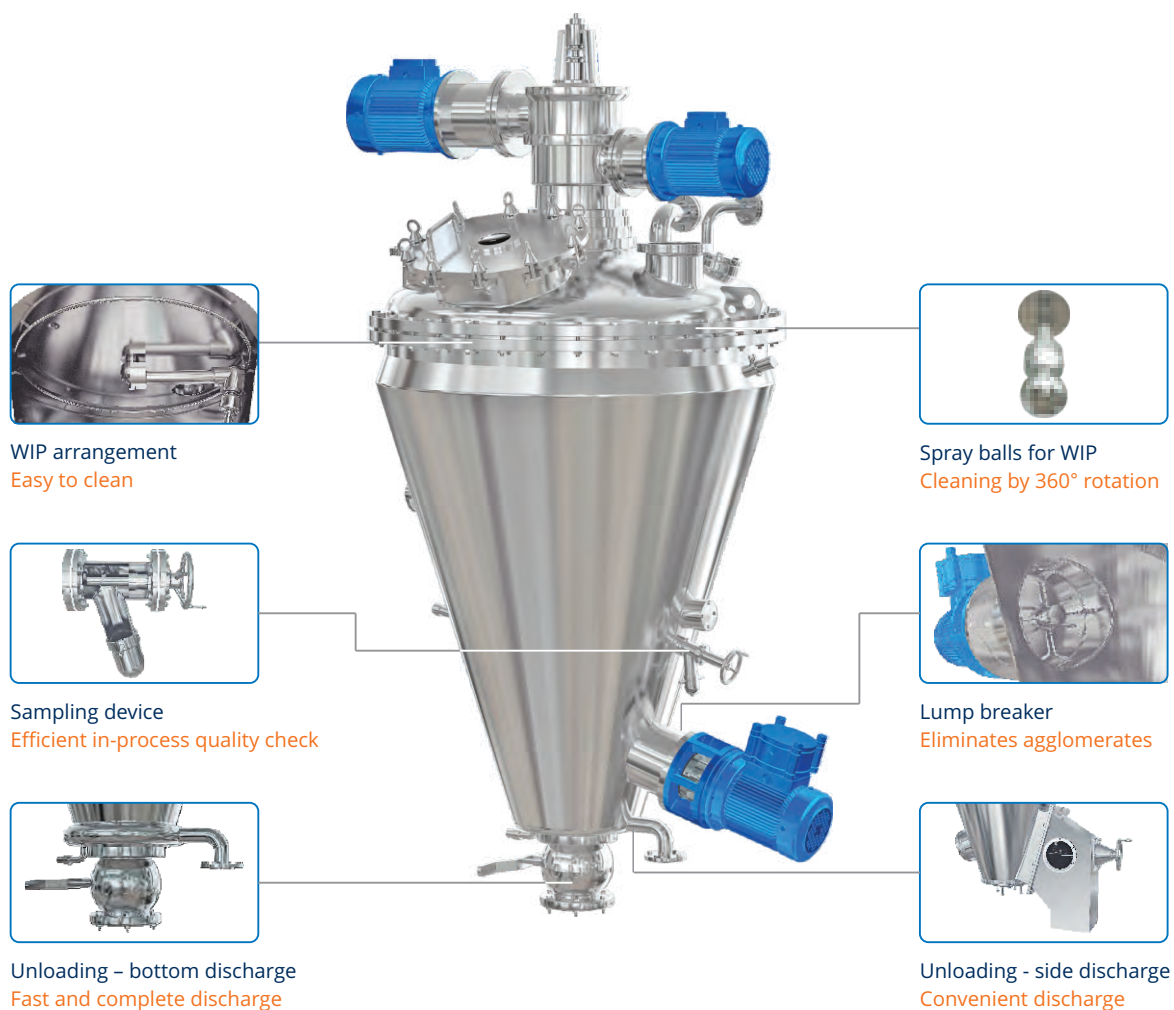
Gansons Nauta Processor executes a variety of processes including agglomeration, coating, crystallization, drying, granulation, homogenizing, impregnation, instantiation, deaeration, de-dusting and solid-liquid or solid-solid reaction.

- Fast drying of slurries, pastes, solids, free flowing powders
- Complete closed system secures environmental protection
- Can be combined with inert gas or air percolation drying
- Easy solvent recovery
- No damage to heat sensitive products
- Important savings by combining operations such as mixing, drying and granulation

The fabricated vessels comply with international pressure vessel codes including BIS, BS, ISME and others.

Gansons Nauta as a Dryer

- Vacuum drying and simultaneously homogenizing products
- Vacuum drying of heat sensitive products
- Production of pastes and deaeration under vacuum in order to prevent formation of air bubbles in the final product
- Reaction under vacuum or pressure of pasty products
- Mixing and reaction of products in an aqueous phase at temperatures above 100°C
- Product reactions under pressure blanketed by inert gas



Unique Gansons Nauta SKX drives with highest torque transmission efficiency Effective and reliable	Bursting pressure of 10 bar Safe and reliable construction
Mixing accuracy up to 0.01% Exceptional mixing efficiency	Fill load starting Prevents stalling and starts under full load in case of power failure
Efficient design Mixing time reduced by 2/3rd	Wide range of batches Mixes partial and full capacity batches equally well
10 HP motor can mix a batch of 2,000 Kg Energy consumption and savings	Integration of vacuum filters in vacuum dryers Better drying efficiency
Obstruction free cone shaped design Easy to clean	Vessels with jackets and limpet coils Processes requiring temperature control

*These results are based on trials conducted in our laboratory under ambient conditions.
Results may vary depending on the process, product and environmental conditions.*

Gansons Nauta

Models and Highlights

Model	DBX1	DBX2	MBX1
Application Highlights	Mixing of abrasive, fragile, and heat-sensitive products and materials of varying densities. Examples: • Vitamin concentrates • Heat stabilizers and lubricants • Resins and additives • Water treatment chemicals • Heavy metal powders • Dairy mixes and milk powders	Faster mixing of pharmaceutical and non-pharmaceutical products including specialty chemicals.	Mixing or mixing-heating. Examples: • Powders and pastes • Granules and slurries • Blending of polymers • Guar gum powders • Catalysts and additives • Dyestuff powders
Capacity	300 to 10,000 litres Commercial scale	600 to 6,000 litres Commercial scale	600 to 10,000 litres Commercial scale
Standard Features	• Non bottom-supported screw shaft • Reinforced swing arm and mixing screw have individual drive motors • Directly-coupled drive unit	• Cantilever-design screw shaft • Non bottom-supported screw shaft • Additional screw • Arm and screw driven by separate motors • Bottom discharge	• Bottom-supported screw shaft • Swing arm and mixing screw have separate drive motors • Arm drive has safety coupling and limit switch
Optional Features	• Dished top • Heating/cooling jacket • Compatible with pressurized applications • Liquid spraying attachment • Lump breaker	• Dished top • Heating/cooling jacket • Liquid spraying attachment • Lump breaker	• Dished top • Heating/cooling jacket • Liquid spraying attachment • Lump breaker • Optional design for mixing-heating in pressurized condition

MBXC	DBXU	MBXU
Double cone mixer ideally suited for installation sites with restricted head room. Required mixing time substantially reduced compared to equal volume single unit. Mixing and heated mixing of powder ingredients with additives, blending of dyestuff.	Drying of heat sensitive API wet mass and similar products, pharmaceutical and non-pharmaceutical materials at reduced temperature. For reaction, solvent extraction, and similar unit operations.	Drying of heat sensitive pharmaceutical and non-pharmaceutical products. Preparation of toothpaste Impregnating clay granules with pesticides. Making detergents, drying rubber chemicals.
3,500 to 20,000 litres Commercial scale	300 to 10,000 litres Commercial scale	1,500 to 15,000 litres Commercial scale
• Flat top cover • Two standard conical shells welded to form a single one • Bottom supported mixing screws • Side outlet	• Free hanging screw shaft • Vacuum/pressure operated shell jacket • Dished top • Dry mechanical seals for the rotary joints of swing arm and screw	• Bottom-supported screw shaft • Vacuum/pressure operated shell jacket • Dished top • Dry mechanical seals for the rotary joints of swing arm and screw
• Dished top • Heating/cooling jacket • Liquid spraying attachment • Lump breaker	• Lump breaker • Dust collector/filter for vacuum operation • Surface condenser • Surface scraper for screw flights • Variable frequency drive for the screw	• Jacket: spirally baffled conventional or half-pipe limpet coil • Lump breaker • Dust collector/filter for vacuum operation • Surface condenser • Surface scraper for screw flights • Variable frequency drive for the screw to vary shaft speed as required

D: Free hanging screw shaft • M: Bottom supported screw shaft • X: Separate drives for screw and arm • U: Special customizations
C: Combo type Nauta • B: Conventional screw and arm drive (both at the top) • X1: Single screw • X2: Twin screw

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