

PRODUCTION PLANT

A BROAD FLEXIBILITY

Designed and built according to the most modern and functional criteria, this plant has been created for the manufacturing and storage of chemical and auxiliary products for industry.

It is able to offer a broad flexibility in the organization of every manufacturing activity, thanks to a modular design and to the availability of ample spaces. The surface currently under construction, in fact, foresees the possibility to further extend the manufacturing and warehouse areas, so offering significant room for the development of this plant in the medium and long term.

area

- 30.000 m²** fully owned (*can be expanded up to 50.000 m²*)
- 7.500 m²** covered area (*9.500 m² of usable surface*)
- 22.000 m³** warehouses

RESPECTING OUR ENVIRONMENT

In accordance with ecologically sound principles, aimed at respect for our environment and workers' safety, this production plant foresees the use of specifically designed devices, equipment, and structures, that undergo regular monitoring according to an appropriate environmental management plan.

Waste water treatment, fumes and dust treatment, and waste disposal are carefully controlled.



safety

- 2 fumes treatment towers**
- waste water treatment plant**
- catch basins for accidental discharges**
- fire fighting plant: fire plugs network and foam extinguishers in the warehouses**
- blow-down plant**



NYMCO S.p.A.: A PRODUCTION EXAMPLE

The first company to exploit the capacity of this manufacturing area is Nymco S.p.A. Nymco is one of the most important manufacturers of technological auxiliary products and raw materials for the paint, paper, adhesive, detergent, textile and water treatment industries.

Nymco makes use of "batch" manufacturing processes, and is currently producing anti-foaming, dispersant, and wetting agents; water repellents, mould-inhibiting agents, preservatives, dyes, and denaturant agents.

This plant has been designed for hosting many different types of production cycles. Its high automation level, the application of state-of-the-art technology, and a flexible information technology system, allow us to optimize the use of our resources so as to satisfy every specific manufacturing need, and to constantly monitor our production; they also guarantee operational flexibility in the manufacturing processes.

PLANT STRUCTURES

Technical and logistics offices

R&D and QA Laboratories

Production departments
Packaging departments
Storage areas

"Utilities" stations

laboratories

Laboratories area: 700 m²

Specific areas for:

pharmaceutics technique
technology and application tests
quality assurance, pilot plants



utilities

2 boilers to produce 6 bar steam
2 500-KVA each transformers (15 KV-380 V)
compressed air, nitrogen
demineralized water
cooling water from evaporation tower

production department

storage of raw materials in bulk

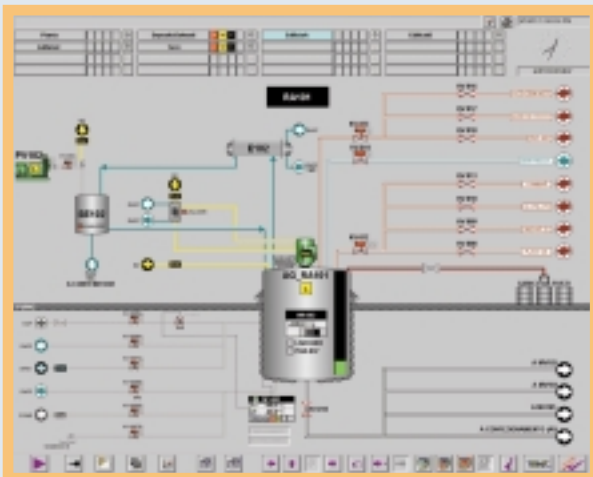
5 underground tanks (tot. 150.000 lt)
4 tanks above ground (tot. 190.000 lt)
2.000 m² closed warehouses
1.600 m² roofed areas

production department on 3 floors

3 reactors (tot. 18.000 lt), 5 hot mixers (tot. 45.000 lt)
explosion-proof electric system
vacuum groups, piston and rotary homogenizers
5 mixers (tot. 90.000 lt)

packaging department

finished products
automatic drum filling line
manual station
9 tanks for stocking liquids
in bulk (tot. 161.000 lt)



NYMCO's main manufacturing processes

Direct vacuum esterification of vegetal and/or animal fatty acids, at 140-160°C temperature, with glycols or polyglycols

Trans-esterification of triglycerides, at 120-130°C temperature, with glycols and polyglycols

Polymerization of itaconic and acrylic acids, at about 90°C temperature, in water, with subsequent salification

Saponification of fatty acids, at about 90°C temperature, with alkaline and/or alkaline-earthly metals

Hot dispersion in oil and water