ITALIAN DESIGN AND TECHNOLOGY TO POWER YOUR SHIPYARD
Via Nova is a company that has more than 40 years of experience in the field of industrial systems worldwide, with its corporate purpose being the planning and implementation of industrial systems and plants for the heavy industry: shipyards, steel mills, pipe mills and for the metallurgical industry in general.

We are a small family with big ideas, that’s why we have widened our client pool so much. In the last 40 years, while building up our experience step by step learning and strengthening up when challenged by different jobs and issues, we provided our customers with all our acquired knowledge, professionalism and expertise.

We always seek new ways, solutions, using technology improvements and innovations to integrate and support our traditional approach.

This research is also oriented to competitiveness keeping the quality requested and assured by our years of business that have given us, always more, the chance to approach our first and most important partners: our customers.

We carry out analysis and feasibility study of customer vision and ideas, which we consider to be the starting point for developing a winning project to the client.

Our philosophy is to conceive solutions with Italian talent, while designing customised plants and equipments.

Our experience abroad gave us the possibility to develop the expertise necessary to operate and build plants in geographically different sites with different cultures.
Production

Many years of experience contributed to develop different Production Lines, customized following customer needs. Below the "Production Lines" we group Panel Line, Pipe Line and Profile Line.

Panel Line

Panel lines are used in the modern shipbuilding industry to increase the productivity and stabilise the quality production of the sub assemblies of a ship and/or platforms.

We divide Panel Lines in three kinds:

• **Flat Panel Line** for different kind of flat reinforced panels;
• **Curved Panel Line** for panels that have particular bending;
• **Micro-Panel Line** for different kind of panels but with smaller dimensions.

Our Panel Lines foresee gantries that runs longitudinally and provide a series of operations that can be manual, semi-automatic or fully automatic. Different solutions allow panel supporting and constant flow of production, from simple fixed plates supporting benches to rollers and sphere supporting frames, all built in modules, therefore easy mounting and functioning. Following our customer’s needs/demand, productivity requirements along with area/ space availability, we can study and supply specific studied equipment layouts, that can include various working stations and different type of gantries with relative characteristics.

Different options can be integrated to our lines through our partners, such as:

**Cutting, Cleaning and Marking Gantry**
- **position**: after panel forming areas;
- **purpose**: perfectly square panel, clean and mark the surface prior to profile positioning.

**Robotized Welding Gantry**
- **position**: end of the Panel Line;
- **purpose**: weld finishing.

Same solutions applied on "standard" steel shipbuilding, can also be applied for Aluminium and/or Stainless Steel shipbuilding.
Pipe Line

Based on our experience, we propose solutions for pipe production with different possibilities and/or automatized levels.

Starting from the automatic stock, we can supply various areas/stations such as treatment (cleaning, shotblasting and painting), cutting (band sawing and/or plasma), chamfering and threading, flanging (assembly and welding), bending and final treatment (galvanizing or pickling).

All areas are connected by a special designed transport system, with different layout depending on space availability and productivity requirements.

Profile Line

On completion of Production Lines, Via Nova is able to offer lines for profile fabrication, that can be L-, T-, or H-beams of different dimensions and with different solution, technologies and optionals.

As for all products, the line will be designed based on type of profile/s and productivity requirements.
Treatment

Many years of experience contributed to develop treatment equipments such as lines and complete shops.

Treatment Line

The treatment line is a plant mostly used in the shipyards where there is the need to preserve the quality and the integrity of plates and profiles for successive operations. The line is typically composed by a pre heating oven, shot-blasting machine, painting machine, drying oven and transport system.

The line is designed to work automatically with a very low number of trained operators. Our lines, differ from others, are specially designed and produced for shipyards, designed and built in the concept of heavy-duty and high-productivity lines requiring low maintenance.

We have pride in acknowledging worldwide references for these kind of equipment which are still working efficiently after more than 40 years since first installation.

Layouts, machines quantity with relative characteristics, type of support and handling system can be various, depending on needs, productivity and space availability.

Furthermore, we develop alternative lines, able to provide also the alkaline cleansing, galvanizing or pickling.

All of these can be developed for plates, profiles or pipes.

Treatment Shops

Various solutions, from the simple design until the complete turnkey supply of such important phase of the shipbuilding process.
Handling and Transport

Via Nova offer a wide range of non-standard, heavy-duty and high-productivity handling and transport systems, with the most varied characteristics and modes of supply. Over 400 installations worldwide, some working from over 35 years, are the better demonstration of quality of our equipments.

Magnetic Cranes

We can supply different kind of magnetic cranes, according to the material to be managed, such as plates, profiles or even tilted plates positioned on railway car. Usually these cranes are used in steel stockyards, close to cutting systems, before and after treatment line and at the beginning of panel line.

The equipments are easily managed through radio control system alternatively to pendant console or by controls located inside a specifically designed control cabin on-board. Magnets can be selected singularly or all together. Full load safety is guaranteed by power and back-up batteries, that ensure efficiency in all conditions.

These cranes can be overhead, gantry or semi gantry and hammer type with a capacity range that goes from 2,5t up to 20t.

Hook Cranes

Heavy duty according FEM rules, simple parts to be replaced or repaired, capacity range from 5, up to 1,500 tons and different type such as overhead, gantry or semi-gantry are only some of characteristics of our hook cranes. We are able to provide: turnkey supply, or complete engineering, key components supply, technological training, building supervision and operator and/or maintenance training.

Crane Components

Supply of different parts, from other producer or other kind of industries.
We are able to provide:

- Wheel groups;
- Gear boxes;
- Cabins;
- Electrical switchboards;
- Electromagnet and electro-permanent magnet systems.

Transport Systems

Different transport system to move material inside the workshop without using cranes. Floor transport systems to transport materials, through different adjacent workshops and working areas with different automatic or semi automatic solutions increasing productivity and safety.
General Shipyard Consultancy
Support to the customer from the initial stage of a shipyard construction and/or renovation, from general layouts study, to complete machines requirements specification.

Feasibility and analysis
Complete and detailed feasibility and analysis study, to submit to customers, funders and/or investors.

Prototypes and joint development
Joint development of new ideas and/or prototypes for improvements that require refinement before starting production.

Retrofitting, modification and/or improvement existing plants
Upgrading of machinery/equipment to new applicable laws, adjustment to new needs and upgrading to new technologies in order to improve quality and productivity together with costs reduction.

SERVICES

Support

Spare Parts
Research, re-design and supply any kind of spare parts difficult to find or produce.

Maintenance and On-site intervention
Via Nova technicians for ordinary and extraordinary maintenance on site intervention.

Start-Up
Via Nova technicians for the machinery/equipment start-up and performance reaching.

On-site manufacturing
Production by selected partners, under Via Nova supervision.

Operator and maintenance training
Training of operators to the normal use of machinery/equipment and for ordinary maintenance.

Supervision or turnkey assembly
Supervision to installation in case of installation provided by customer or complete installation provided by Via Nova.

WPS and Performance development
Development of Welding Process Specifications and detailed procedure specifications to reach the performance required.
Market research, selection and supply of machines, required in the shipyards, both Italian and foreign producers. Below is a list of some examples:

**Plasma cutting**
- Cutting machines
  For Plates, Profiles, Pipes.

**Bending machines**
For Plates, Profiles, Pipes.

**Shotblasting machines**
For Plates and Profiles, Pipes.

**Air Filtering systems**

**Hydraulic presses**

**Cutting water tanks**
Fully customized, with pneumatic water level adjustment.

**World Presence**
Operating in the global market, Via Nova has representations in over 20 countries, number continuously growing.

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