



Grupo
Neuwalme
HIDRÁULICA, NEUMÁTICA & CONTROL

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Presentation

NEUWALME IS A GLOBAL PROVIDER OF VALUE-ADDED SOLUTIONS FOR INDUSTRIAL MOTION APPLICATIONS, BASED ON OIL-HYDRAULIC, PNEUMATIC AND MECHATRONIC TECHNOLOGIES.

Founded in 1982 by Francisco Vaquero Rubio, **Neuwalme** was born as a family business dedicated to the sale of pneumatic and oil-hydraulic components for industrial applications.

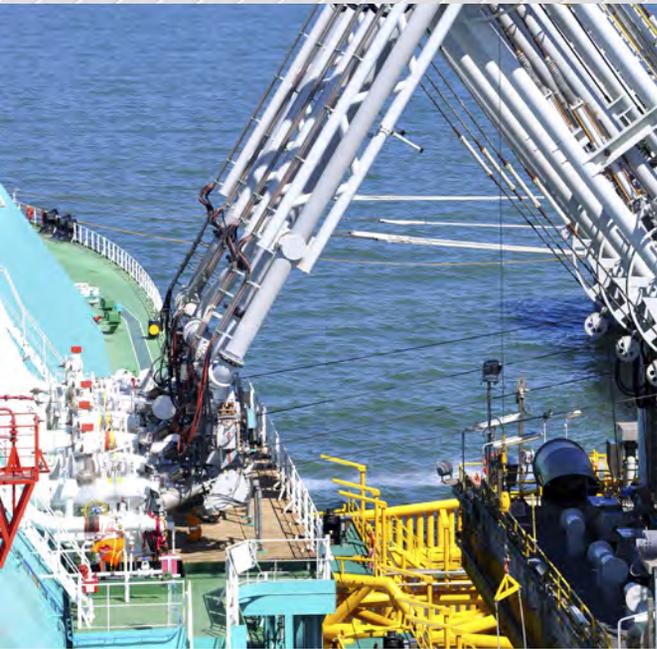
Over the years, the company grew and expanded its portfolio of products and services, incorporating the design and manufacture of equipment, on-site installations and after-sales services, thus becoming an industrial group of high technological development with international projection.

Mission

To provide value-added solutions in oil-hydraulic, pneumatic and mechatronic applications to professional customers in all industrial sectors, designing and manufacturing equipment and installations, carrying out on-site assembly and technical assistance and offering after-sales service, all with the highest levels of product and process quality, technological innovation and delivery times, adapting to customer needs and helping them to be more competitive.

Vision

To be recognized as a benchmark company in industrial movement solutions both nationally and internationally, developing a role as a key supplier to our customers and providing products and services of the highest quality and technological level.



Neuwalme Central



Vigo, Spain



Large equipment and APS



Vigo Technology Park, Spain



Neuwalme Parker Store



Porriño, Spain



Additive Manufacturing 3d, INMAKE



Vigo Technology Park, Spain



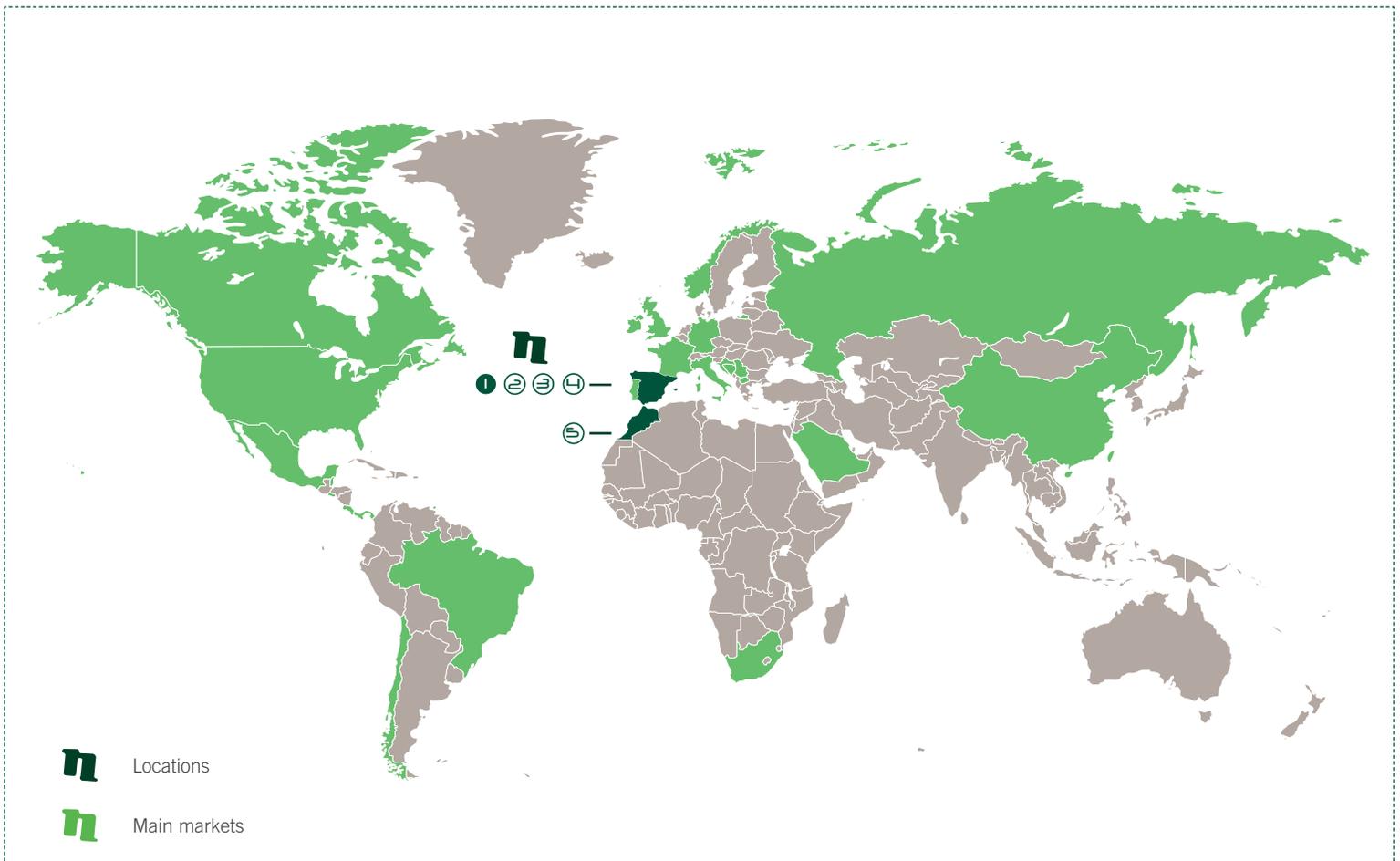
Neuwalme Tánger



Zone Franche, Tangier, Morocco

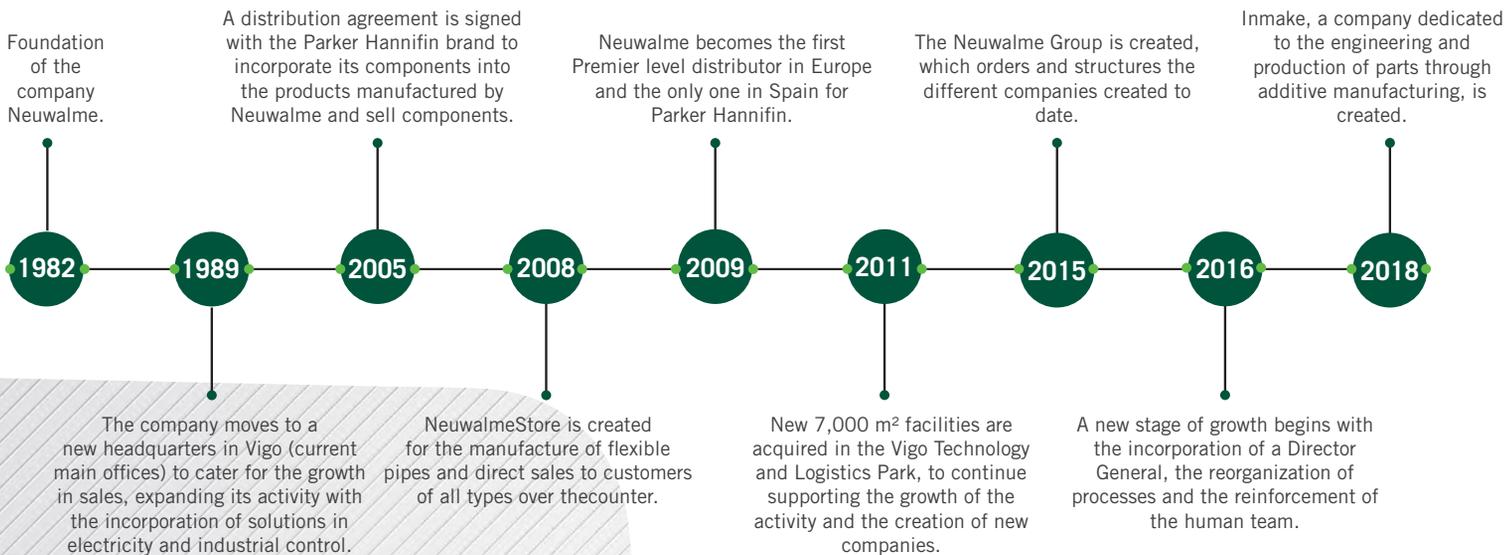


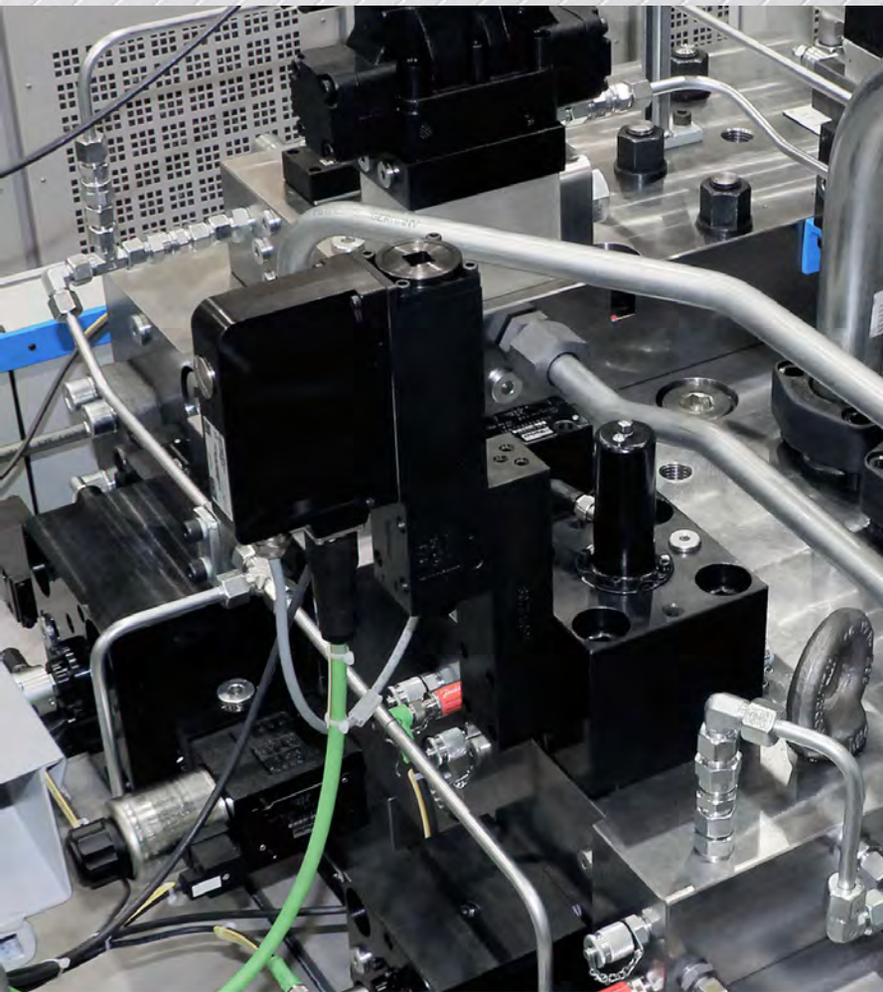
Where we are



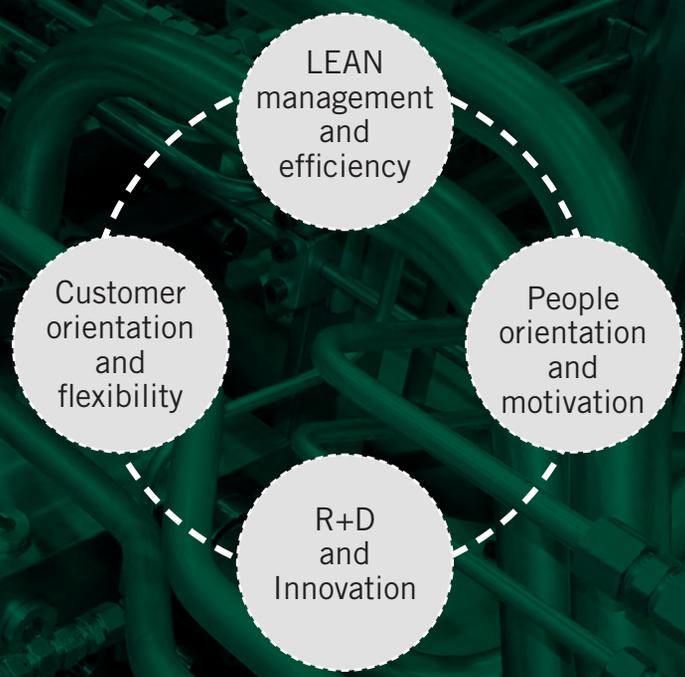


Our history





WORKING PRINCIPLES



Certifications



Quality



Environment



Corporate Social Responsibility

Values

- ◆ High degree of professionalism
- ◆ Maximum customer orientation
- ◆ High quality of products and services
- ◆ Adaptation to customer needs
- ◆ Focus on continuous improvement and lean management
- ◆ Constant innovation
- ◆ Autonomy and independence
- ◆ Teamwork
- ◆ Development and protection of people
- ◆ Respect for security
- ◆ Care for the environment
- ◆ Respect for safety at work



Portfolio of products and services



DESIGN AND MANUFACTURE OF EQUIPMENT

HPU Oil-hydraulic power units

Hydraulic lubrication panels

Cooling panels (water and air)

Pneumatic panels

Electrical panels and control panels

Electromechanics and control systems

Applied pneumatics and networks



SPECIALIST TECHNICAL SERVICES

Hydraulic Engineering, Mechanical Engineering and R+D+i

Assembly of equipment, installations and systems

Technical assistance



SALE OF ELEMENTS AND COMPONENTS

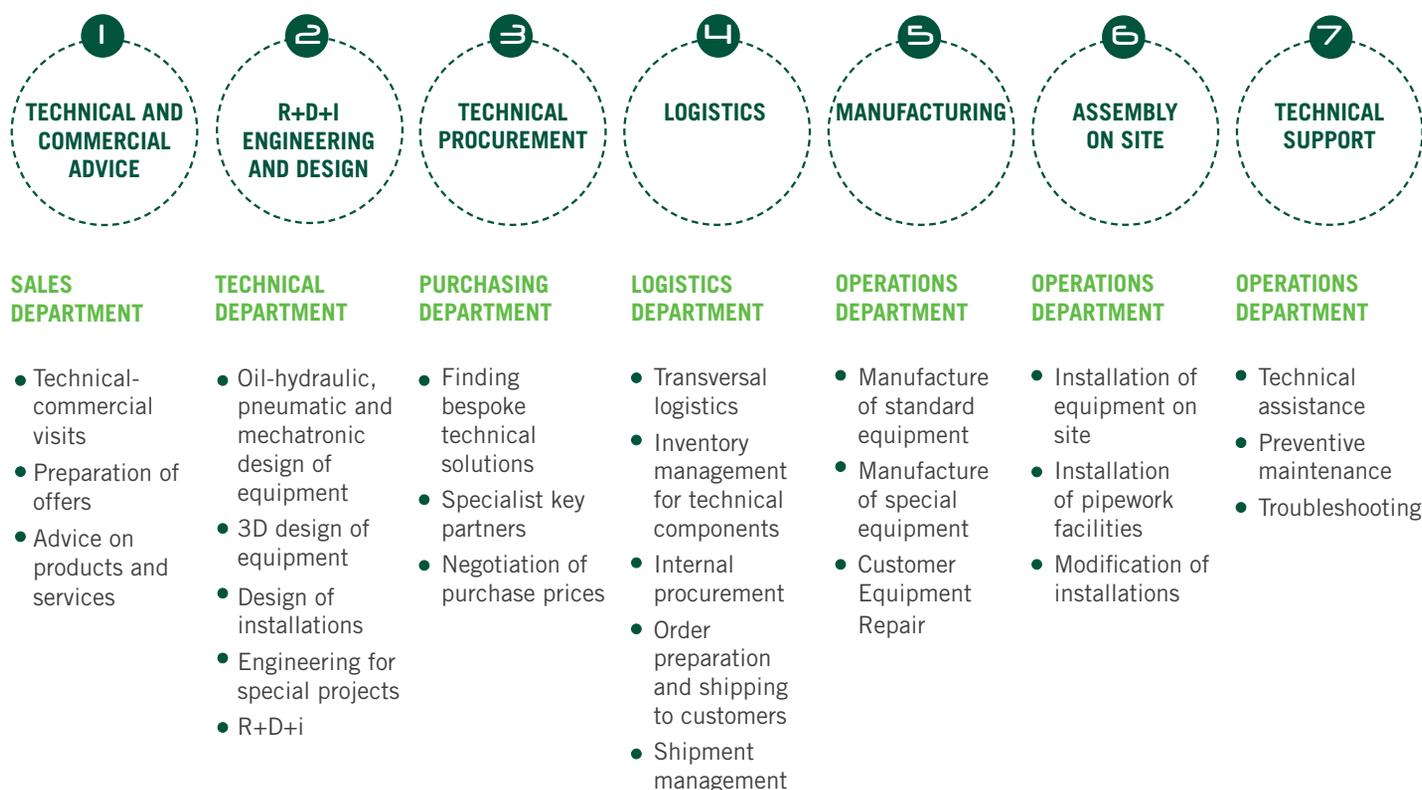


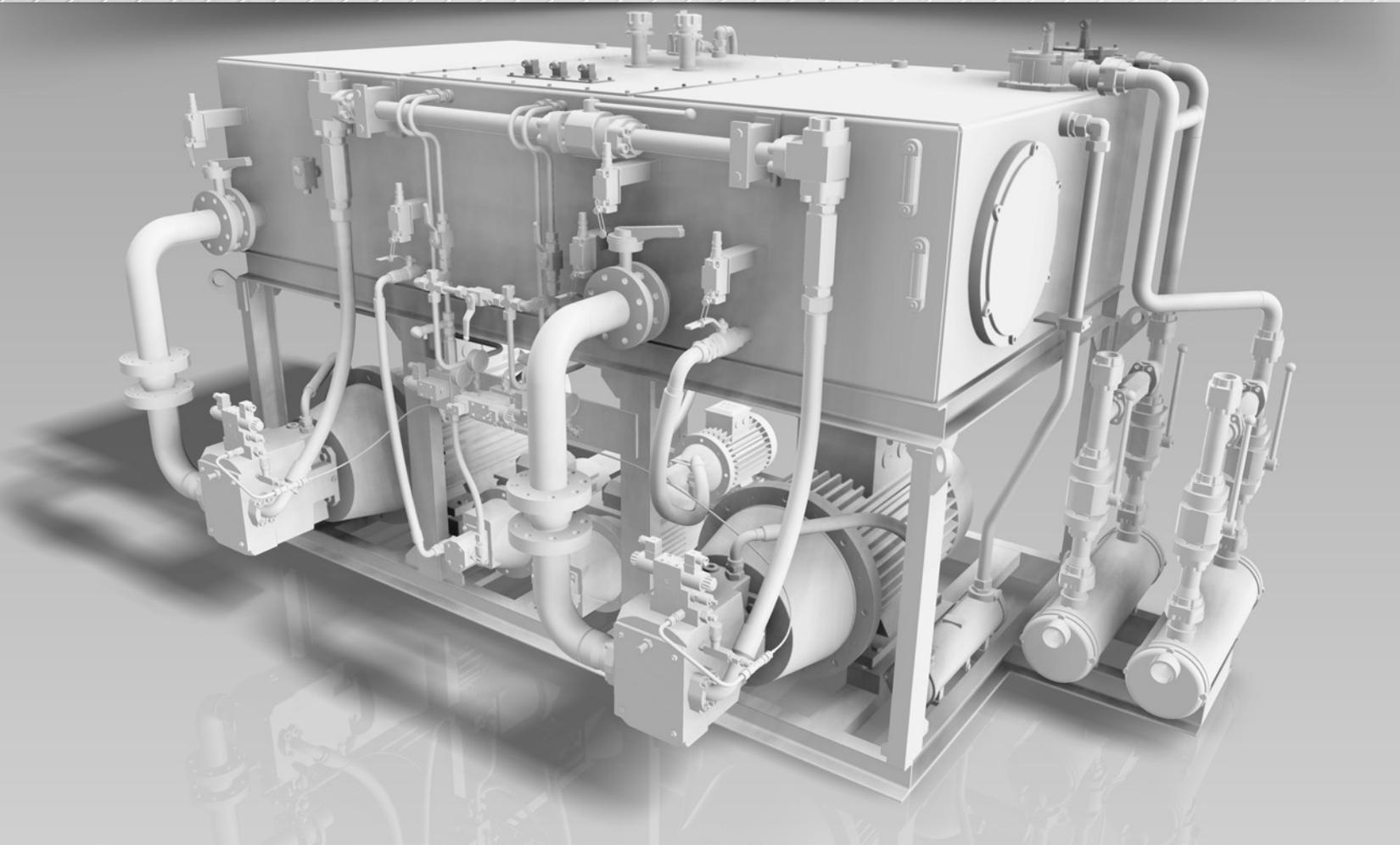
(We provide
solutions
in all
stages of
work.)



Value Chain

OUR OPERATIONS COVER ALL STAGES OF WORK WITH THE CLIENT:





Engineering

Engineering is the heart of **Neuwalme**, the area where technical developments and value for our customers are born.

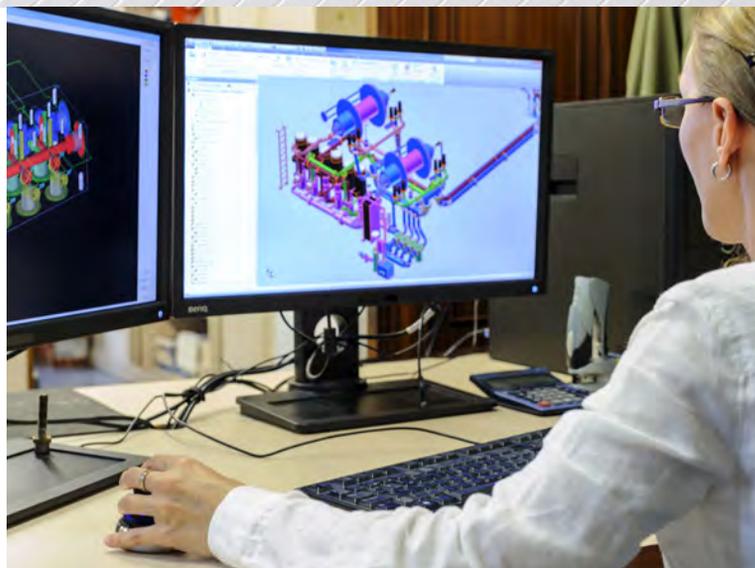
With our own team of engineers and designers, we carry out all stages of equipment and installation development, from oil-hydraulic, pneumatic, mechatronic and automatic engineering, to 3D mechanical design, manufacturing and assembly drawings and spatial designs for on-site assembly.

We use the most advanced software for 2D and 3D design, as well as for the development of oil-hydraulic systems, generating all the necessary technical documentation for approval by the client and the implementation and certification of the systems.

We develop both standard equipment and customised designs according to the customer's requirements, providing value-added solutions that optimise the operation of the systems, reduce energy consumption and comply with the highest technical requirements.

We work to comply with the most demanding regulations and technical standards, with 3.1 and 3.2 certificates and type approval for components, as well as tests and certifications with the most internationally recognized classification entities (ABS, Bureau Veritas, CFS, DNV, KR, Lloyd's, Rina, Russian Register, etc.).

Research, development and constant innovation are the fundamental principles of our company to offer the best technical solutions to our customers.



Oil-hydraulics

This is the technique applied to the transmission of power by means of an incompressible fluid of confined liquid type, which is the oil.

Oil-hydraulic units are the basis of these systems. There are different types, depending on their function, although the main ones are hydraulic power units (HPUs).

Within these, the sizes can vary from mini-units of 0.25 Kw, through equipment with vertical configuration, horizontal and large equipment with the pumps under the tank and power greater than 150 Kw.

Other oil-hydraulic equipment includes hydraulic lubrication units, water and air-cooling units and hydrostatic pressure units.

Neuwalme has a wide range of standard products with its own development, configurable according to the specific needs of each application and customer. It also designs and manufactures special equipment tailored to the customer, both in performance and configuration (high flow rates, high pressures, etc.), and in materials (stainless steel, painted with special schemes, tropicalized equipment, etc.) and special technical requirements (3.2 certifications, certifications by classification entities).

(High-tech equipment to optimize the efficiency of the systems.)



Pneumatics and Networks

Pneumatics is the technology that uses compressed air as a mode of energy transmission to move and operate mechanisms.

Neuwalme designs and manufactures industrial pneumatic systems, including pneumatic control panels and distribution networks with Transair system, and markets the full range of basic components for industrial pneumatics:

- Air treatment systems, assembly and accessories: regulation elements, air filtration systems, lubrication components and drying systems.
- Valves and control systems: with mechanical, pneumatic or electric actuation, electro-pneumatic pressure regulators, modular valve-carrier systems with all functions, fieldbus connections, etc.
- Pneumatic cylinders: compact, standardized, large dimensions, without piston rod with a guide for large elevations, Clean Design ISO cylinders for the food industry, etc.
- Special pneumatic fittings.

To this must be added elements for special applications such as load handling, using clamps, grippers, cradles, suction cups and handling modules, as well as vacuum systems.





Hybrid solutions that enable substantial performance improvements with energy savings of more than 50% and connectivity for industry 4.0.

Mechatronics

This is the technical area that combines elements of mechanics, electronics and industrial automation, developing mechanical applications integrated with electronics.

Neuwalme provides solutions in mechatronics by supplying components, actuators and control elements for integration into all types of machines and systems:

- Linear actuators with piston rod for forces up to 114,000 N and strokes up to 2,000 mm.
- Rodless linear actuators for forces up to 5,500 N, strokes up to 7,000 mm and load capacities up to 40,000 N.
- Frequency converters for power ratings from 0.20 kW to 1,000 kW and up to 1,500 Hz frequency.
- AC servomotors up to a torque of 285 Nm and speeds up to 10,000 RPM.
- DC servomotors up to 19.2 Nm.
- Controllers for servomotors up to 109 kW, with Hiperface DSL, various fieldbuses and extended safety technology.
- DC regulators up to 1,950 amps and up to 690 V.
- Planetary gearboxes with high efficiency (92%) and very low angular backlash (<3 arcmin).
- Automation controller with CNC capability, open PLC, real-time motion control and visualization.
- Electrical panels and monitoring and control equipment.





Services: assembly of equipment and installations

Manufacture and on-site assembly of complex high-pressure hydraulic piping systems (up to 420 bars) and diameters from 6 mm to 90 mm by bending and forming; low-pressure hydraulic piping, diameters up to 12" bent or welded; high-pressure pneumatic piping (up to 300 bars) in steel; low-pressure pneumatic piping (up to 168 mm) with Transair system; high-pressure water installations (up to 315 bars); low-pressure water installations with x-press system and fire extinguishing water mist installations.

Neuwalme uses connection systems by fitting Parker EO2 and EO2 form, patented Parker-Hannifin system with zero leakage and type approval for high-pressure installations up to 42 mm in carbon steel and stainless steel. It also uses mechanical assembly systems such as Parflange F37 and high-performance HPF, for applications with large diameters and special technical requirements, with formed or machined joints and fasteners by means of SAE ISO 6162 flange or ISO 6164 square flange. TIG and MIG/MAG welding is used in low-pressure installations with large diameters, which are approved and subjected to non-destructive quality checks.

All circuits are subjected to dry cleaning processes using the Ultra Clean system; oil flushing with high-flow Neuwalme equipment to ensure Reynolds number > 4000 , reaching contamination levels lower than level 4 on NAS 1638; pressure tests up to 600 bars, tests with classification entities and performance tests with the customer, meeting the highest technical and quality requirements.





Services: technical assistance, diagnosis and monitoring

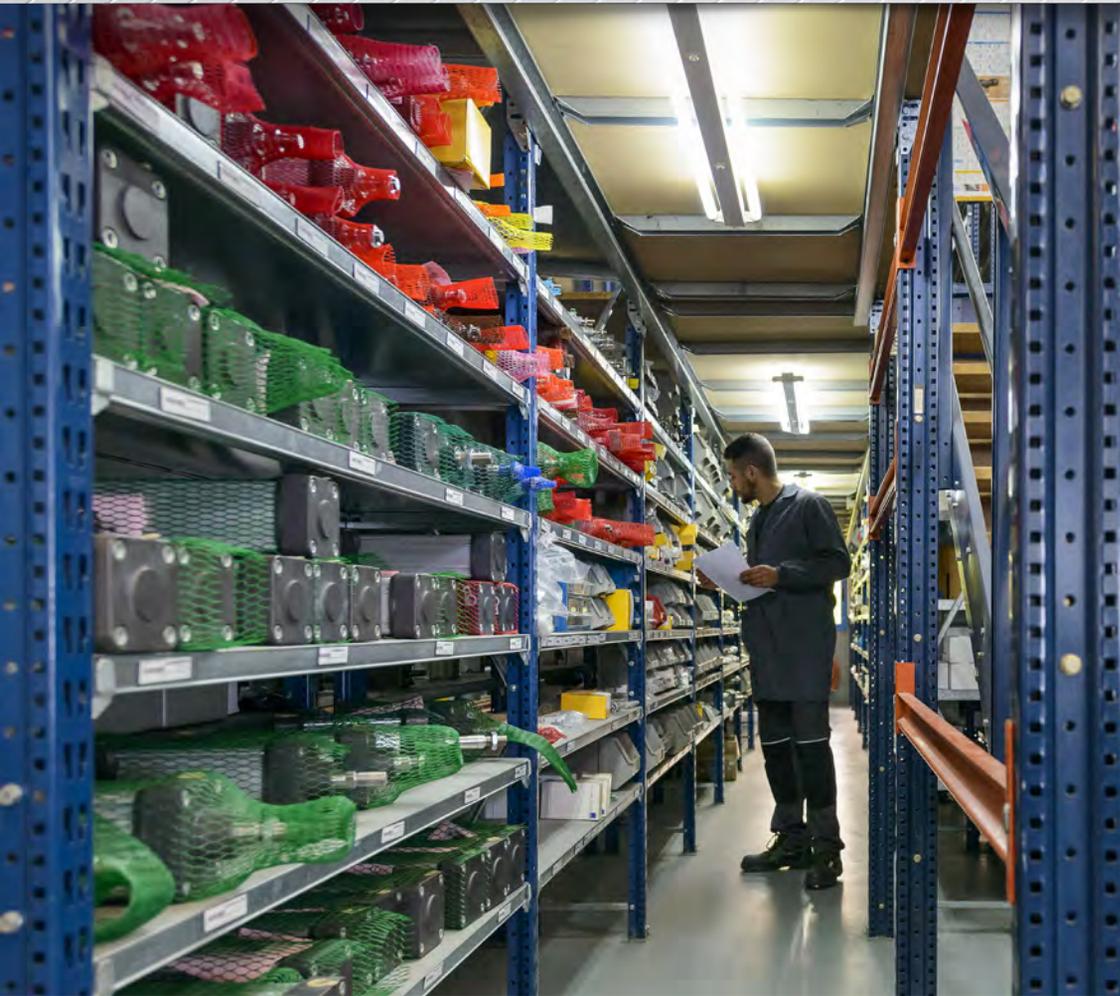
Neuwalme has resources and highly trained personnel to carry out technical assistance at the client's facilities, specifically focused on oil-hydraulic systems, pneumatic systems, mechatronic elements and electrical and industrial control equipment.

With this, we support both planned preventive maintenance, as well as assistance in resolving breakdowns (corrective maintenance) and interventions to improve systems.

We can also monitor the functional parameters of industrial systems by installing sensors with data capture for pressure, flow rate, temperature, oil quality, tank levels, power consumption, torque, pulsations, etc., whose digital and analogue signals can be integrated into capture, display and control devices, allowing complete management and optimization of the systems.

Our more than 3 decades of experience in the industry have demonstrated that an essential aspect for the correct functioning and optimization of the systems, is the condition of the oil, as the element transmitting the energy. This has made us experts in oil care by means of analysis for the detection of contaminating elements (particles in suspension and water), and their elimination using advanced radial microfiltration equipment complemented with system flushing operations. We also install aeration filters to prevent the entry of humidity in all types of tanks, which have advanced drying and monitoring systems.





(More than
10,000
references
in stock of
components
and technical
spare parts)

Sale of elements and components

A key part of customer service is the sale of technical components and specialized spare parts for industrial applications:

- **HYDRAULIC OIL:** pumps, engines, valves, cylinders, accumulators, coolers, piping and connections, filters, noise suppressors.
- **PNEUMATICS:** legris connection and piping, valves, actuators, Transair networks, air treatment (dryers, filters, coolers, N2 generators), handling, vacuum.
- **MECHATRONICS:** ETH actuators, rodless actuators, variators, servomotors, regulators, controllers, reducers, control elements
- **LUBRICATION AND GREASING:** dispensers, distributors, spray nozzles, micro-pumps, centralized and automated greasers.
- **MEASUREMENT AND ANALYSIS:** digital flowmeters, pressure and temperature sensors, pressure transducers with display, oil life sensors, portable data acquisition devices with analogue and digital inputs.
- **FILTRATION:** suction, pressure and return filters, duplex filters, interchangeable filter elements, oil microfiltration with radial technology, particle analysers, continuous pollution counters.

With the support of top-level international partners, Neuwalme commercializes technical components from leading brands to furnish solutions to the most demanding requirements, with 3.1, 3.2 and type approval certifications, as well as tests and certifications by classification entities.





Neuwalme, the only Parker Premier distributor in Spain



ESTO ES FIABILIDAD

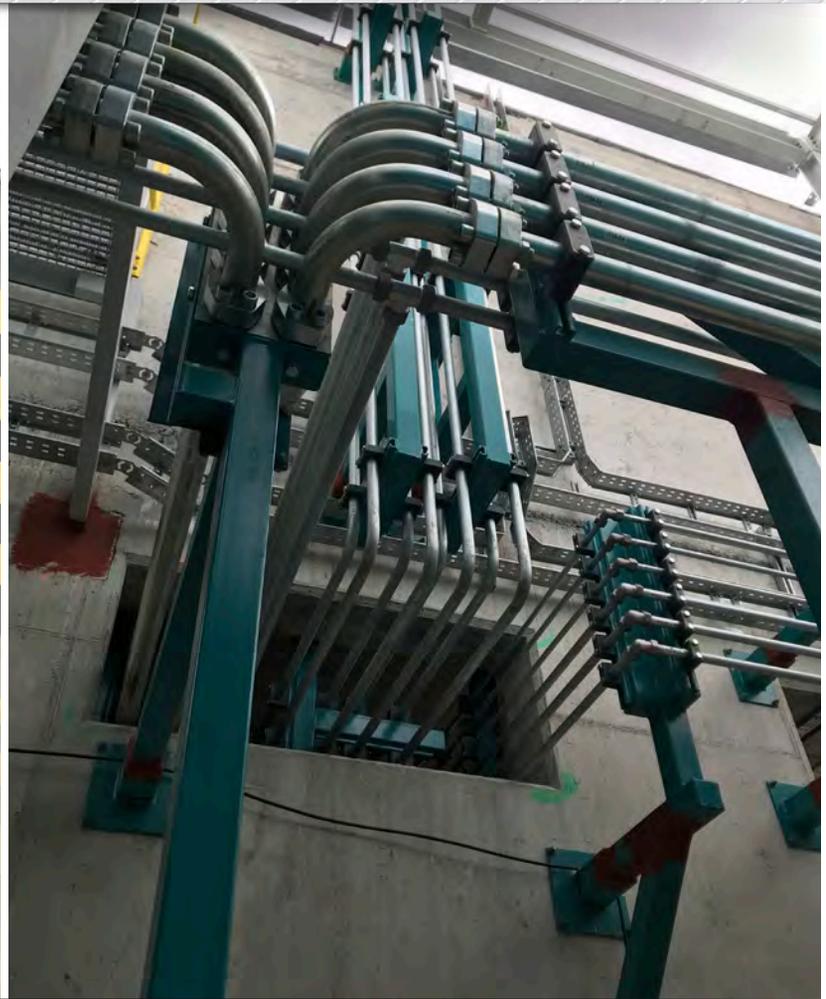
Resolviendo los desafíos de ingeniería más difíciles del mundo

Connectors
Hydraulics
Electromechanical
Filtration



ENGINEERING YOUR SUCCESS.





Capabilities

FACILITIES

3 MANUFACTURING PLANTS

3.000 M²

Industrial facilities

2.000 M²

Logistics facilities and warehouses

APS- Advanced Piping Solutions Center

HUMAN RESOURCES

- ✓ Own Engineering Dept. Certified
- ✓ Technicians on site

+ DEL 20% ENGINEERS

on staff

MANUFACTURING CAPACITY

more than
750 UNITS
per year

**MANUFACTURE OF
HYDRAULIC HOSES AND
INDUSTRIAL HOSES**

Equipment up to
150 KW, 2000 L/MIN Y 750 bar

more than
30.000 REFERENCIAS
in components

**MANUFACTURE
ADDITIVE IN 3D**

DESIGN CAPABILITY

3D DESIGN OF EQUIPMENT AND INSTALLATIONS

- ✓ Hydraulic Engineering
- ✓ 3D design of hydraulic blocks





We provide solutions for all industrial sectors.



**SHIP
BUILDING**



AUTOMOTIVE



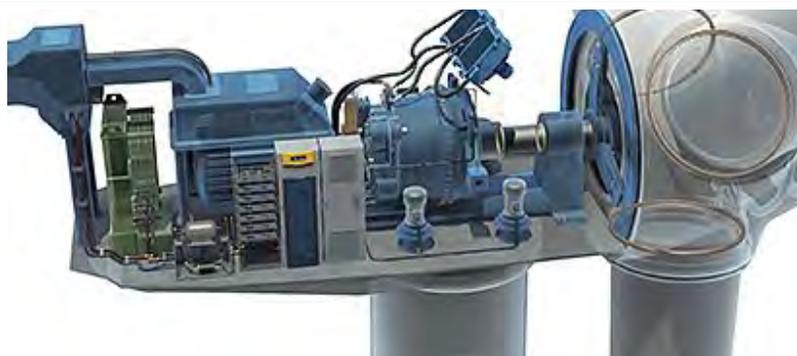
ENERGY



**MANUFACTURERS
OF EQUIPMENT**



**METAL
WORKING**

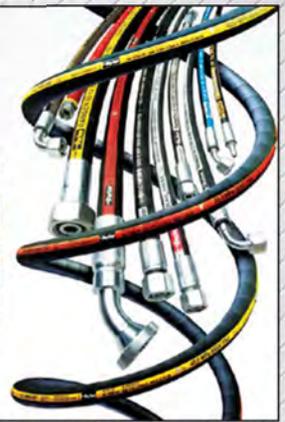




Neuwalme

ParkerStore

your engineering & maintenance components store

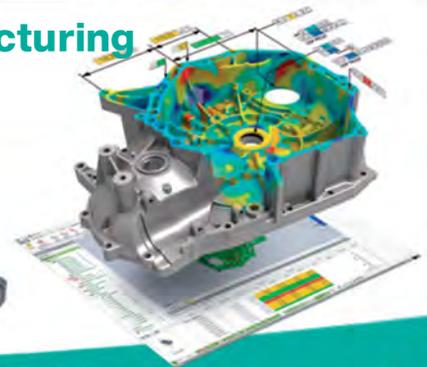


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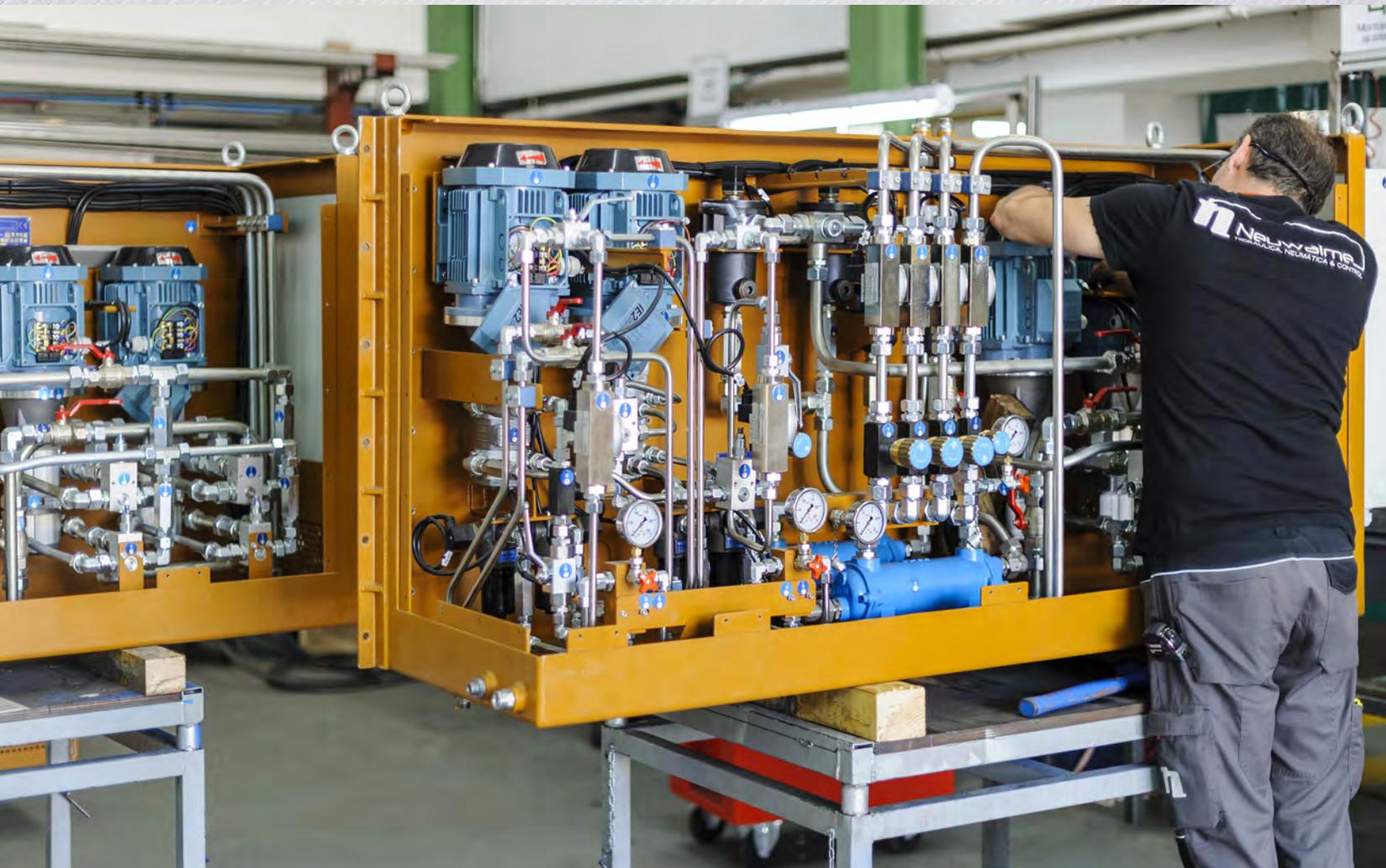


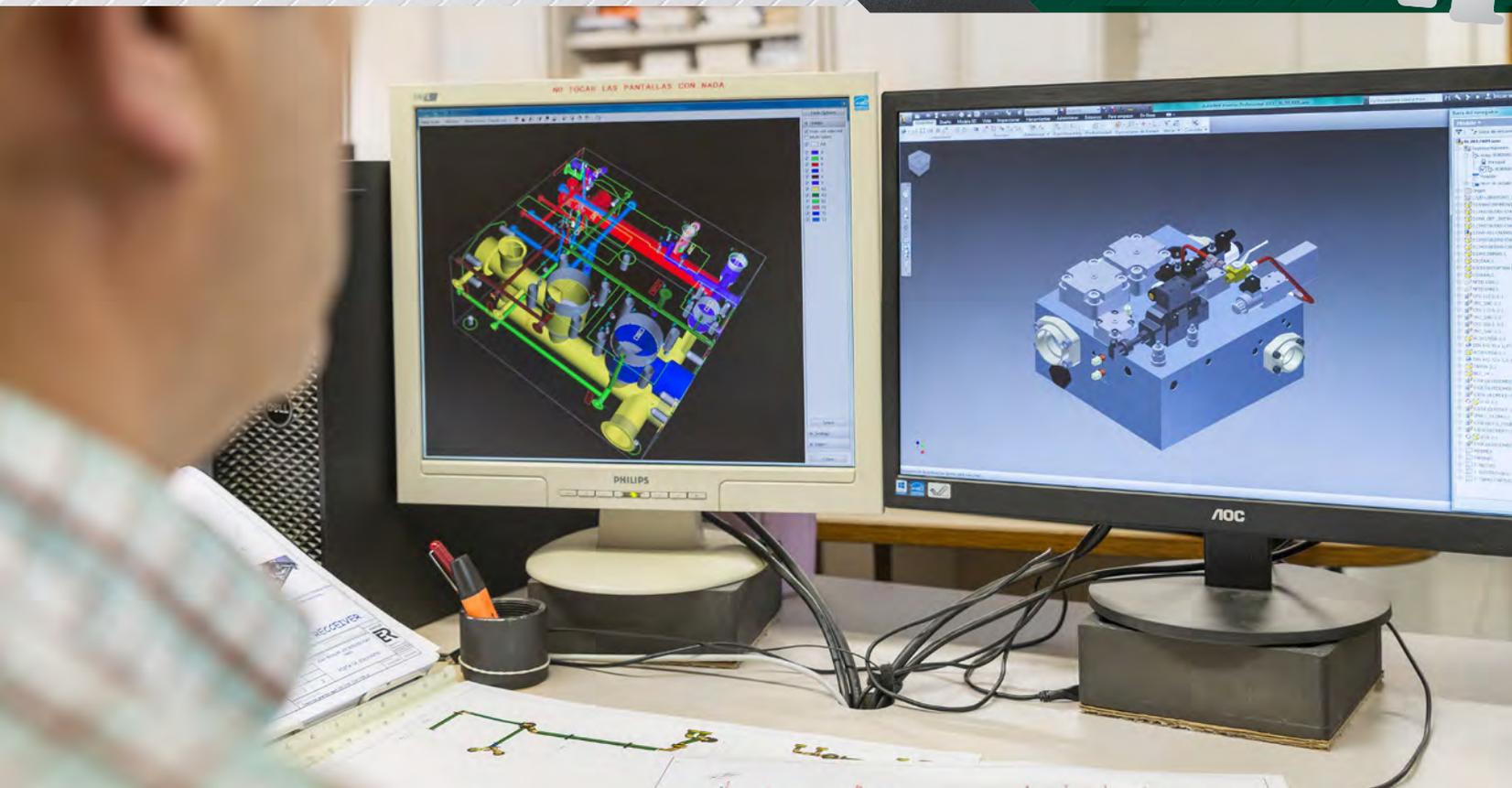
Engineering and additive manufacturing

- Project management
- Reverse engineering & optimization
- 3D design and FEM analysis
- Rapid manufacturing
- Prototyping
- Postproced



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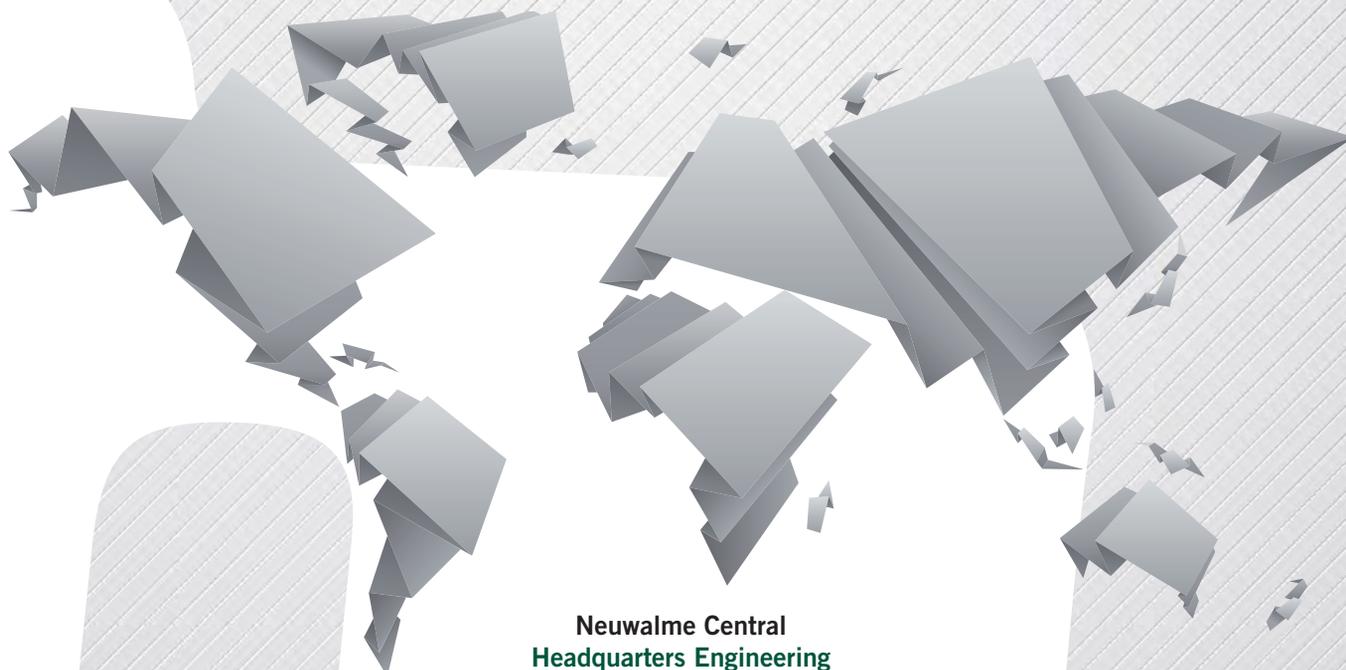




Hydraulic Blocks

- ◆ Development, design, manufacture and assembly of integrated hydraulic circuits in compact blocks.
- ◆ CAD-CAM system for rapid custom manufacturing of hydraulic blocks, which allows the development of complex circuits integrating logical cartridges, pressure regulating valves (reducers, limiters and sequence valves), directional valves (2, 3, 4 and 6-way solenoid valves, watertight gate valves), sensors (pressure switches, manometers, flowmeters, temperature sensors), ball valves and circuit connecting elements (fittings, flanges).
- ◆ These systems make it possible to eliminate technical functionality limitations, reduce pressure losses, minimize heat dispersion, eliminate the possibility of leaks and improve the operation of the installation.





Neuwalme Central
Headquarters Engineering
and manufacturing
c/ Fragosiño, 32-34
36214 Vigo, Spain

Neuwalme APS center
Manufacture of large equipment and facilities
Vigo Technology and Logistics Park (PTL)
Calle A, Parcela 10.02
36315 Vigo, Spain

Neuwalme Parker Store
Fabrication of flexible pipes
and component shop
Ctra Salceda, km 1
36418 Atios- Porriño, Spain

Inmake Studio S.L.
Engineering and additive manufacturing
Valladares Technology and Logistics Park (PTL)
Rúa A s/n Vigo, Pontevedra, Spain

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