

Design engineering.  
Processes and  
components



5 plants, laboratories  
equipped with the latest  
technology on the market



**Highly skilled  
person in each  
key position**

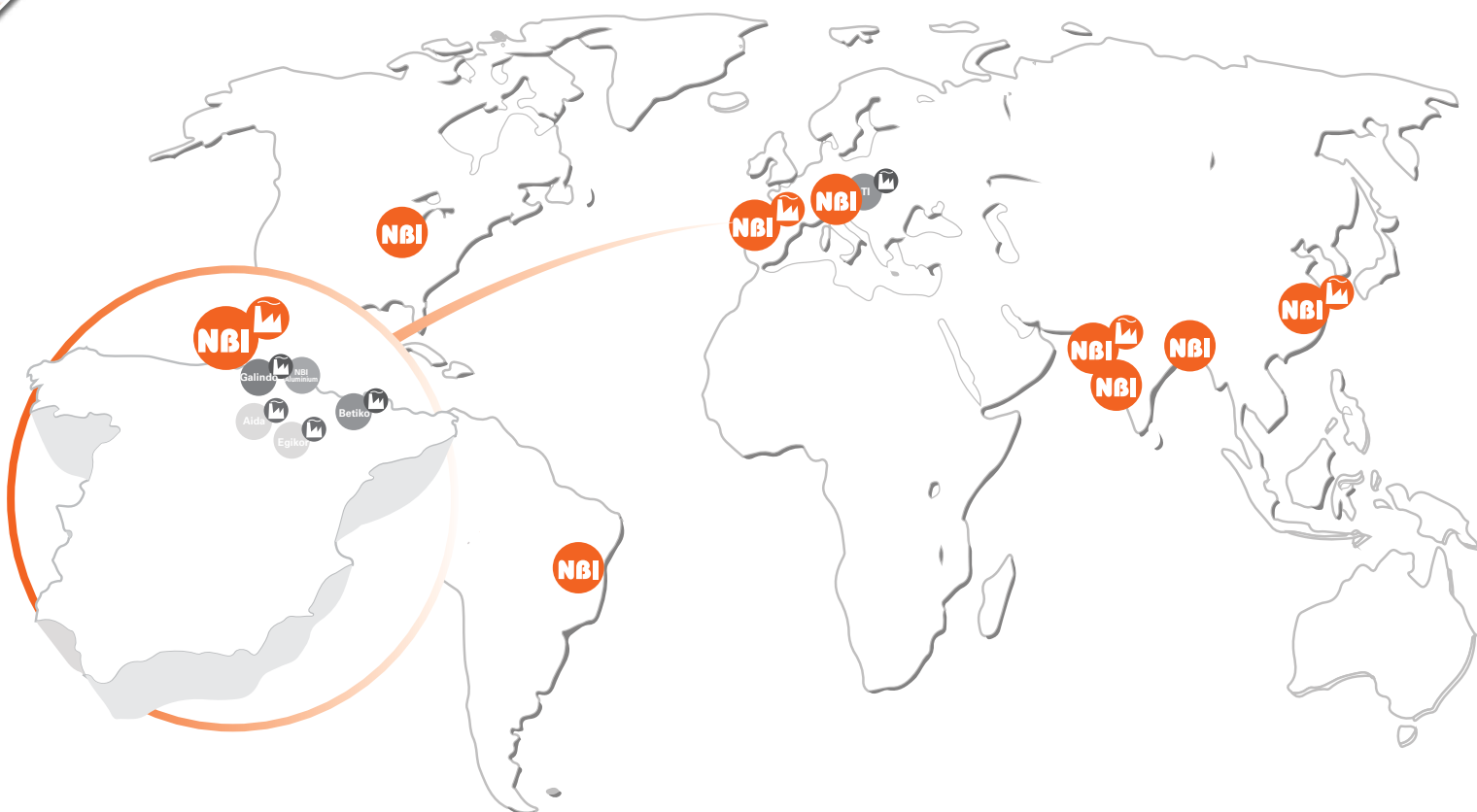
Personalised sales  
and technical service



Selection, investment and  
integration of technologies



**Industrial division**



## Industrial Division

Our industrial division focused on designing, manufacturing and supplying components and assembled parts mainly to industrial, aerospace market and automotive sector. NBI selects and invests in the optimum technology for each process and component.

Our team is currently comprised by 350 people with vast experience.

NBI created its new industrial group in order to vertically integrate the required technologies to manufacture bearing components. With that aim, NBI acquired:

- **Egikor**, stamping plant that provides NBI with the knowledge, expertise and capacity to design and produce cages in-house and to design manufacturing processes (2016).
- **Betiko**, multi-spindle machining plant that provides NBI with the knowledge, expertise and capacity to design and produce turned rollers (2016).

NBI decided to enlarge the scope of its activities by founding the Industrial division, which is formed by two different business units: Metal transformation and Precision machining.

Since then, NBI has added two new companies with complementary technologies:

- **Aida Ingeniería**, together with Egikor is part of the Metal transformation business unit. Aida's activity is specialized in the design and production of precision boiler components and assemblies for a wide range of industries (2018).
- **Industrial Metalúrgicas Galindo** is the latest incorporation to the Precision machining business unit. Its purpose is to design and manufacture precision tooling and machining components and assemblies for the aerospace industry (2020).

At the end of 2020, the group acquired **NBI industrial Oradea** (formerly known as Turnatorie Iberica) creating a new business unit in the supply of aluminium components chiefly for the automotive sector. This company has incorporated to the Group the know-how in process of foundry and aluminium casting and machining.

The NBI group consists of 8 production plants with a team of 470 people distributed between bearing and industrial divisions.

The industrial division consists of 3 business units, the metal forming unit, the precision machining unit and the aluminium injection and machining unit.

The bearing division is made up of:

- **NBI Bearings Europe.** Founded in 2002. NBI headquarters, R&D, designing, manufacturing plant, warehouse and sales office in Oquendo (Spain).
- **NBI India** Manufacturing plant and warehouse in Ahmedabad and sales office in Kolkata (India).
- **NBI Bearings Romania.** Application engineering and sales office in Bucharest (Romania).
- **NBI Bearings do Brazil.** Sales office in Sorocaba (Brazil).
- **NBI Bearings USA.** Sales office in USA.
- **RNB Components.** Manufacturing plant of bearings steel cages and other auxiliary components in Rajkot (India)
- **Cronos.** Manufacturing plant warehouse and sales office in Wujin (China).

## Bearings division

NBI is a **Premium brand** serving the market since 2002.

Key positions are covered by professionals with vast experience in the bearing industry. The main features of NBI Bearings Europe to be highlighted are:

Commercial capacity:

- Focused on supplying bearings for high technical requirement applications to OEM customers. A large list of leading OEM clients' referrals backs NBI's reputation.
- Sales and customer service teams, formed by more than 25 people providing a personalized service, are located in Spain, China, Romania, Brazil, India and USA.
- Romania-based highly experienced application engineering team that provides the best pre-sales & after-sales technical assistance.
- Distribution centers for on-time deliveries in Spain, China and India.

Technical expertise:

- Own design and R&D teams in Spain that have supported the development of a new own design software. Product portfolio that covers CRB, SRB, TRB, CRTB, SPB and CF. NBI is continuously adding new items to its Enhanced bearing line.
- Manufacturing plants in Spain, China and India.
- Fully equipped metrology, metallographic and other tests laboratories.

Financial position:

- Solid financial health thanks to a robust cash position.
- Publicly listed in the BME Growth (Spanish stock exchange market for small and medium sized companies) since 2015 with stable core shareholders.

Strategic alliances:

- NBI maintains a strategic partnership with Cronos (Chinese bearing manufacturer), in which the two current majority shareholders and co-founders of NBI also own an equity stake.

Design, manufacture and supply of components and/or sub-assemblies mainly aimed at the sectors industrial, aeronautical and automotive. We select and invest in the optimal technology for each process.



## Unit

Metal transformation



## Processes

- Press brake sheet bending
- Punching
- Welding
- Stamping
- Painting



## Plant

Egikor

Aida Ingeniería



## Unit

Precision machining



## Processes

- Turning C.N.C.
- C.N.C. machining center
- Grinding
- Bar turning



## Plant

Industrias Betiko

Industrias Metalúrgicas Galindo



## Unit

Alumninion injection and machining



## Processes

- Melting furnaces
- Injection
- Machining
- Thermic and superficial treatments
- Painting



## Plant

NBI industrial Oradea

NBI Aluminium



Company founded in 1985, dedicated to part stamping and assemblies. Plant located in Ermua (Vizcaya) with a 4,000m<sup>2</sup> surface.

### Products and sectors

Components, sub-assemblies and installations for:

- Lifts.
- Automotive and derived components.
- Solar power.
- Electronics.
- Construction.
- Shelves.
- Signs.
- Other sectors.
- Design, manufacturing of dies.



Certified with quality certificate: ISO 9001:2015 and IATF 16949.



Lasa-250-23 Fagor PRSL-250 automatic press

### Processes and machinery

- Presses from 60Tons and up to 400 tons; automatic and manual.
- Resistance welding, milling machines, drilling machines.
- Spot welding machine, threading machine and grinding machine.
- Vibration polishing
- Control devices:
  - Three-dimensional, Profile projects HB.3507/Starret.
  - Hardness tester HOYTOM Minor 69.
  - Exterior and interior micrometers, goniometers, calipers.
  - Artificial vision.



Esna-250-25 250TM manual press



Delteco-160-5 PE-160 automatic press

### Second operations

- Grinding, machining, countersinking, threading and milling.
- Vibrating, polishing, chemical cleaning and by ultrasound.
- Cataphoresis, electrostatic painting with dust and liquid paint.
- Zinc plating, powder coating, bi-chromate, zinc phosphated, galvanized, surface treatments in the automotive industry (ZnNi, ZnCr, ZnMn, Geomet, Delta-Tone).
- Hardening and tempering, carbonitriding, induction hardening, Ionit-Ox, bainitic hardening.







Founded in 2003, is dedicated to designing and manufacturing components and metalworking assemblies. Highly qualified engineering department Plant located in Artea (Vizcaya) with a surface larger than 2,500m<sup>2</sup>.

## Products

### Industrial Area

#### Manufacturing:

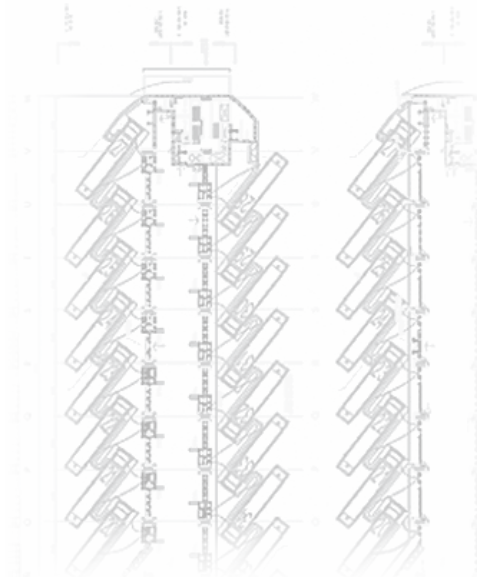
- Electrical rooms and engine rooms for port container cranes.
- Filters for wire and electrical discharge cutting machines.
- Transformer and power stations.
- Electrical cabinets.
- Chains for different machines: wire braiding machines, lathes, etc.
- Pressurised cylinders.
- Guards, collection trays and conveyor belt loading guides.
- Drive assembly beds.
- Material handling machines: Trippers, Stackers...
- Moulds for manufacturing tools for the aeronautical sector.

### Calculation engineering, mechanical - structural design and development:

- Maintenance projects, conveyor belts, reclaimers, stackers...
- Structural projects of the different applications at industrial plants.
- Different equipment from combined cycle industrial plants.

### Architectural Area and Furniture

- Classified design and manufacturing projects of full enclosures for underground bus stations and hospitals, health centres and schools.
- Classified and certified metal modular wall cabinet system.
- Metal enclosures classified as fire proof: Blind and Glass.
- Forster metal work (façades, interior and curtain wall).



Interchange in Moncloa  
(Madrid)



Fire proof glazed sliding door  
EW60 rating



Interchange bus station  
(Termibus - Bilbao)

## Processes and machinery

- Cut.
- CNC punching and CNC bending.
- Certified robot welding.
- Certified manual welding.
- Application of Polymerization paint (dust) and liquid paint.
- Assembling centres, alignment of drives, pressure test and leak test.
- Handling equipment: 1 bridge crane (10 ton), 2 bridge cranes (5 ton) and forklifts (2.5 ton).



Punching machine Trumatic 200



Robot welding



Company founded in 1982, dedicated to bar cutting. Machining of parts in multi-spindle and CNC lathes. Plant located in Bergara (Guipúzcoa) with a surface larger than 2,000m<sup>2</sup>.

### Products and sectors

- Components, sub-assemblies and installations for:
- Automotive.
- Electrical industry and white goods.
- Lifting.
- Automation and heating.
- Industrial hardware supplies.
- Metal works and construction.
- Bodywork.
- Urban furniture and home furniture.



ISO 9001:2015

### Machinery

- 13 multi-spindle lathes.
- 3 sliding head CNC lathe.
- 3 washing machines.
- 2 centrifuge machines.
- 2 vision machines.
- Metrology laboratory: profile metre, roughness tester, roundness tester, three-dimensional.
- Metallographic laboratory: spectrometer, hardness tester, microscope, macroscope.



GM35 multi-spindle lathes



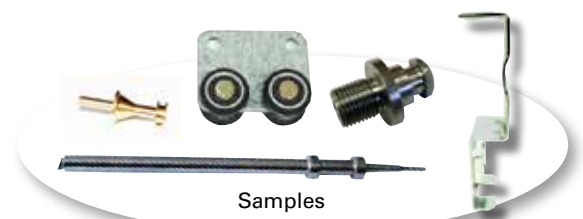
Deco 13 CNC lathe



SAS 16.6 DC multi-spindle lathe

### Second operations

- Chemical cleaning and by ultrasound.
- Grinding.
- Hardening and tempering, carbonitriding, induction hardening, Ionit-Ox.
- Zinc plating, powder coating, bi-chromate, tinning, silver plating, nickel plating, surface treatments in the automotive industry (ZnNi, ZnCr, ZnMn, Geomet, Delta-Tone).



Samples



Company with over 50 years of experience in designing and manufacturing tools and serialised aircraft parts for the aerospace sector. Plant located in Munguía (Vizcaya) with a 2,500 m<sup>2</sup> surface.

## Products

Large tools for manufacturing aircraft parts:

- Assembling, handling and transport stands...
- Tools for manufacturing processes (shaping, curing, edge finishing, drilling, assembling checks...).

Medium tools for manufacturing aircraft parts:

- Tools for manufacturing processes (shaping, curing, edge finishing, drilling, assembling checks...).

Serialised part:

- Machined part.
- Sheet metal shaped part.



Certified with quality certificate:  
EN 9100:2018, ISO 9001:2015, AIRBUS  
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## Machinery

- 2 bridge milling machines.
- 3 machining centres with 5 shafts.
- 3 machining centres with 3 shafts.
- 6 horizontal CNC lathes.
- Presses from 60Tons and up to 400 tons; automatic and manual.
- 1 Mobile column milling machine (new incorporation).
- 2 Three-dimensional measuring-verification machines.
- 1 laser Tracker.
- Metrology laboratory: profile metre, roughness tester, roundness tester, three-dimensional.
- Metallographic laboratory: spectrometer, hardness tester, microscope, macroscope.
- 300T hydraulic press with rubber bed.



MORI SEIKI SL25/100  
CNC horizontal lathe



CNC DMU 80T  
machining center



Hydraulic press  
300T

## Processes

- Design (Catia V5, Unigraphics NX, VERICUT).
- Processes for joints:
  - Welding of structures.
  - Heat treatments: hardening and tempering, induction hardening.
  - NDT inspection: magnetic particles.
- Sheet metal shaping processes: stamping, bending, curving, elasto-shaping.
- Mechanical transformation processes: lathing, 3-5 shaft milling, grinding...
- Mechanical assembling: installation and dimensional adjustment of assemblies and structures with laser Tracker.
- Surface treatments: paint, powder coating, chrome plating, passivate coating, zinc plating, galvanising.
- Inspection and testing processes:
  - CMM inspection, laser Tracker and conventional.
  - Micro-percussion marking, laser marking.
  - Vacuum and functional tests.
  - Installation of projects at the client's plant.



Metal parts and parts  
for structures





Company founded in 2005 dedicated to the serial production of die-cast and machined aluminum parts. Plant located in Oradea (Romania) with an area of 16,000 squared metres.

## Products and sectors

Components and assemblies for:

- Automotive
- Office and hospital furniture
- Electric tools



Certified with quality certificate:  
ISO 9001-2018, ISO IATF 16949 2018,  
ISO 14001, ISO 45001

## Machinery

- Melting furnaces
- 3 furnaces of 1,500 kg
- 2 furnaces of 800 kg
- Aluminum injection
- 21 complete cells equipped with high pressure aluminum injection machines (360-900Tns)

## Machining

- 4 Makino high precision CNC centers
- 4 Spinner high precision CNCs
- 5 special custom transfer machining machines
- 5 drills
- 4 threading machines
- 2 polishers

## Finishes

- Heat treatments (Furnace for T6 treatments)
- Shot blasting machines
- Vibrators with ceramic stones (2 linear and 2 circular)

## QA

- 3 3D DEA measuring machines
- 2 spark emission spectrometers
- 2 x-ray machines for porosity control
- Hardness testers
- Densitometer for cast alloy
- Zwick 1484. Creep testing machine



CNC machining center



CNC machining center



CNC machining center

## Treatments and second operations

Assemblies  
Painting  
Superficial treatments



Samples

At NBI we use software to design each one of our parts, components and tools.

At NBI we are continuously working on improving the internal standards, the internal design and the analysis of alternative design configurations. We collaborate with our clients from the conceptual stage of developing a product by providing our know-how and with the aim of finding the best solution in terms of quality, cost and service.

Strategic partnership with some of the most advanced Spanish technological centers: CEIT and Tekniker BRTA.

## Our softwares



### CATIA V5

Design software, computer aided manufacturing and engineering. Provide support from the conception of design to production and product analysis



### POLYWORKS 2019

3D dimensional analysis and quality control software solution to control tools or part dimensions. Diagnostics and prevention of manufacturing and assembling problems. Assembling construction guide via real time measurements and monitoring of the quality of these products using portable metrology devices



### PC-DMIS 2019 R1 and 2011 MR1

Metrology software for compiling, evaluating, managing and presenting the manufacturing data. Allows creating measuring routines, executing them at the workshop and collaborate to make decisions based on the results



### ANSYS

Simulation software that uses finite elements for predicting how a specific product will function and react in a real environment



**Unigraphics NX 9.3 and NX 10**  
Advanced CAD / CAM / CAE software packages for design, engineering analysis and production drawing using machining modules



**SOLIDWORKS**

CAD 3D design software for modelling 3D parts and assemblies and 2D drawings. Offers a wide range of solutions covering the aspects involved in the product development process. Create, design, simulate, manufacture, publish and manage the data of the design process



**VERICUT 7.3.4**

Software based on 3D solids that interactively simulate the machining process using a CNC programme. Allows simulating and verifying the accuracy and quality of the generated programmes



**ROMAX**

Software for designing, analysing, testing and manufacturing gear boxes, transmissions and bearings

In-house metallographic, metrology and other tests laboratories equipped with the latest technology. Strategic partnership with some of the most advanced Spanish technological centers: CEIT and Tekniker BRTA. These fully equipped laboratories are shared by the application engineering, design, R&D and manufacturing teams.



**Taylor Hobson contour meters, roughness testers and profilometers.**

- High precision and state of the art measurement capable of inspecting profiles, surface finish and shape of different types of parts and with a very wide measuring range.
- Allows inspecting small as well as large parts.



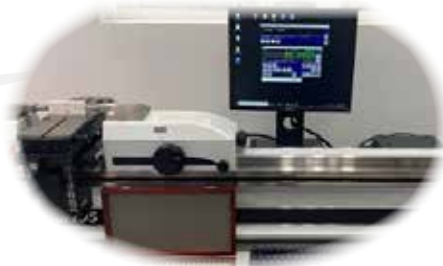
**CMM Zeiss Contura G2 / CMM DEA Scirocco**

- Measurement using high precision coordinates that allows dimensionally assessing any type of geometric tolerance, capable of scanning surfaces and with a wide measuring range that allows relaxing the controls of manufactured parts.



**Leica electronic microscope for micro-structure analysis**

- High quality laboratory type equipment that allows preparing samples for analysing materials using high resolution equipment.



**Longitudinal measuring bench**

- High precision longitudinal measurement and with a very wide measuring range.
- Allows creating standards, internal calibrations and dimensional measurements with great accuracy.



**Fatigue life test bench**

- Equipment for conducting life tests for manufactured products.
- Allows determining our scope and improve our quality standards.



**Vibration measurement test bench**

- Functional inspection equipment
- Allows determining the performance of the product in the format that is sent to the client, inspecting the behaviour of the different components that interact with each other





#### **Magnetic particles inspection**

- Crack inspection equipment for metal parts using magnetic particles technology.



#### **CMM Stiefelmayer**

- High precision coordinates measurement machine.
- Allows dimensionally assessing any type of geometric tolerance, capable of scanning surfaces and with a wide measuring range that allows relaxing the controls of manufactured parts.



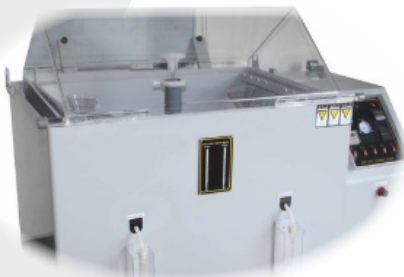
#### **Spectrotest TXC25**

- Chemical composition inspection equipment that allows fully analysing the quality and the degree of compliance of our materials.



#### **Laser tracker**

- Use certificate in accordance with CEI60529
- The ATR allows for continuous monitoring and accurate positioning with different types of reflectors up to a typical volume in a 320 m radius.
- The ADM has a resolution of 0.1 microns and a maximum uncertainty of 10 microns over a full radial volume of 160 m.
- Automatic updating of environmental parameters to prevent improper input values and inaccurate calculations.
- Traceable accuracy of 0.5" in accordance with ISO 17123-3 with a resolution of 0.07 r.



#### **Saline fog chamber**

- Equipment for conducting accelerated corrosion tests.



#### **Artificial vision monitoring**

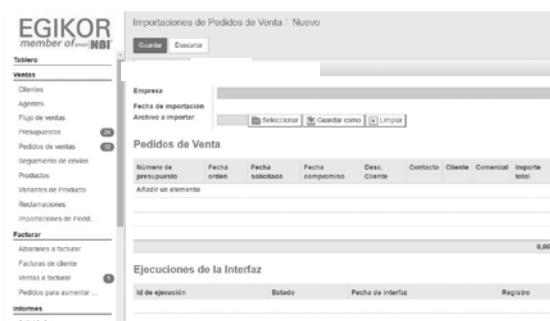
- Spinning glass plate with 5 stations and maximum field of vision of 55mm for the dimensional control of outer measurements and detection of the presence of internal threads.

Highly qualified technical-commercial team oriented to offer the solution that best suits our clients' needs:

- Customer Service and Sales focused on meeting our customers' requirements, providing quick and valuable responses.
- Product engineering with extensive knowledge in technologies and manufacturing processes cooperating in the concept definition of the product.
- Development of projects to materialize and meet all planned milestones, from the conception of the design to serial production.
- NBI's newsletters to keep clients updated.
- Each client's information is centralized and easily accessible in ODOO. Very systematic business method.



Customer file



ODOO

NBI proposes a commercial relationship based on frame agreements. It is a win-win flexible contract based on annual demands and commitments.

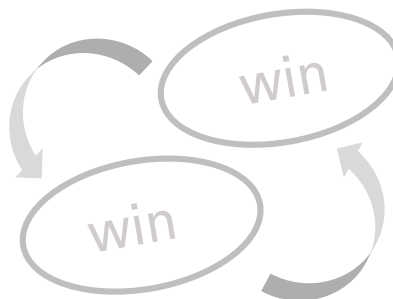
### NBI's compromises

- Maintain a percentage of the agreed contract quantity as safety stock to satisfy unexpected demands.
- Provide price stability during the period of the agreement.
- Update every month information about orders evolution, delivery commitments and real consumes.
- Better adaptation to future deliveries (based on an initial estimation and adjusted by real figures).

### Client's compromises

- Consume the quantities of the references to which the customer committed to in the period of the agreement.
- Provide a visibility of the next 3 months' confirmed deliveries.
- Update every month's estimations for the incoming 6 months to be able to react accordingly.

Frame agreement follow-up report



Frame agreement template

NBI's extensive experience and in-depth knowledge of a wide range of applications has positioned the company as a provider of optimum solution for many OEM manufacturers



- Automotive.
- Gas cylinders.
- Lifting and lifts.
- Packaging and food.
- Valve components.
- Engines.
- Railway.
- Industrial machinery.
- Aeronautics
- Automation and heating.
- Metal works and construction.
- Bodyworks.
- Urban and home furniture.
- Architecture.



## MRO

- Automotive.
- Aeronautics
- Architecture.
- Engenery
- Lifting and lifts.



## Distributors



## Vision

Develop a solid group of companies focused on the **design, manufacturing and marketing of precision bearings and high value-added technical products that are especially aimed at industrial sectors.**

With a value proposition recognized by our clients and supported by the following pillars:

- **Extraordinary customer service.** Fulfill our quality commitments and delivery deadlines with close attention.
- **Continuous innovation** focused on own product design.
- **Pre-sales & after-sales** technical service as a differentiating element.
- **Supply chain** based on close and long-term relationships and **mutual trust.**
- **Operational excellence** focused on doing more with less.

Focused on achieving:

- **Satisfaction of our clients,** gain their trust and loyalty through multi-year agreements, and consequently achieve a win-win relationship.
- **Persons committed** and proud of working at NBI.  
**Own Culture and values.**
- **Satisfied shareholders,** generating sustainable profitability in the medium-term always with absolute transparency.



**gruponbi.com**

Central Office: Pol. Industrial Basauri nave 25 - 01409 Oquendo (Álava) Spain.- Tfno: 945 898 397