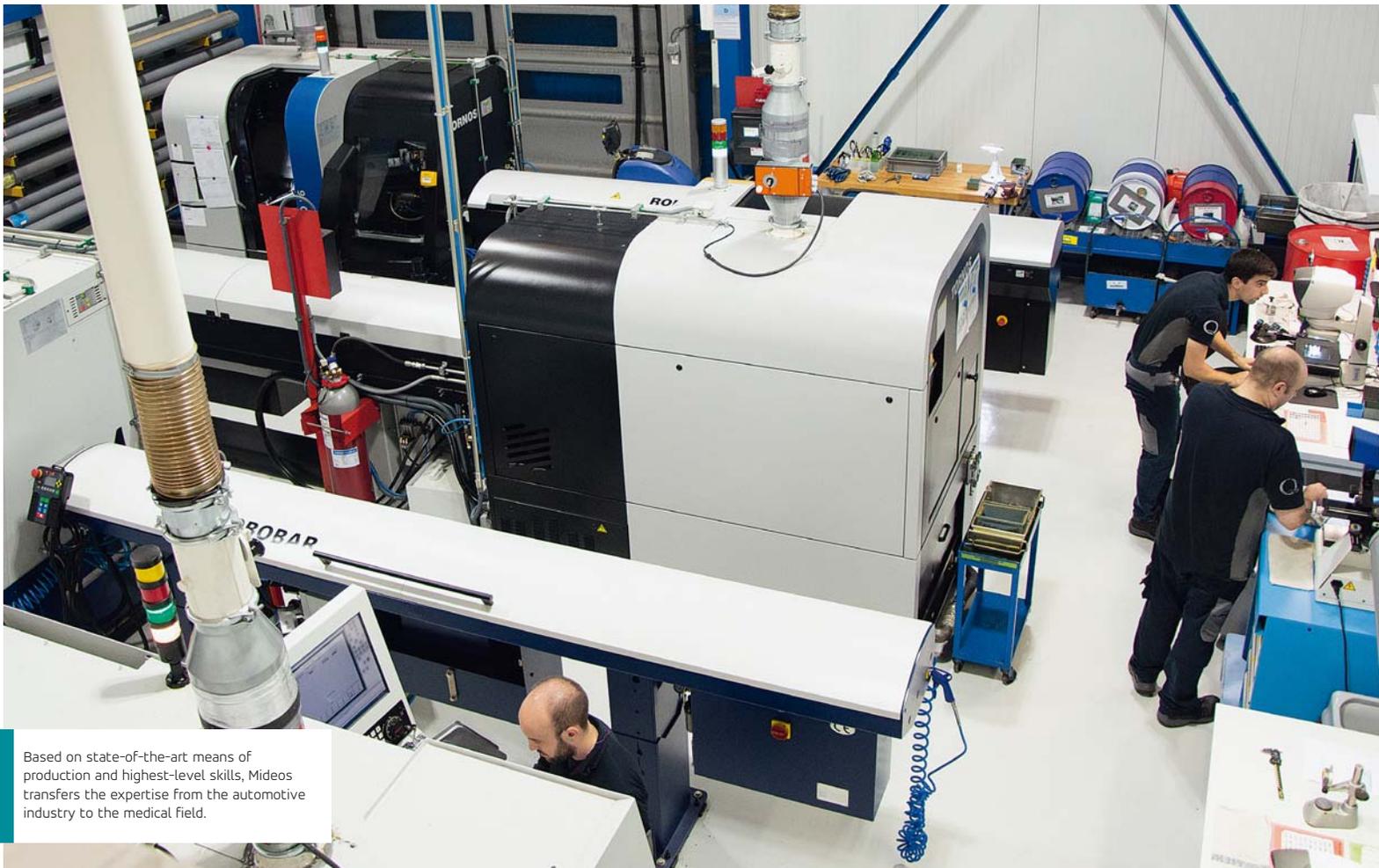




Mideos can count on a dynamic and young staff for reaching its ambitious goals.



Based on state-of-the-art means of production and highest-level skills, Mideos transfers the expertise from the automotive industry to the medical field.

MIDEOS:

the success

of a dedicated team!

The company Microdeco, based in the Spanish Basque Country, is renowned in the automotive industry and successfully supplies numerous OEMs in this field. Furthermore, Microdeco directly delivers its parts to the production lines of major car brands.



MIDEOS
 P. I. Urtia s/n - bis
 48260 Ermua
 Vizcaya
 Spain
 Tel +34 943 170 317
 Fax +34 943 173 115
 mideosmedical.com
 info@mideosmedical.com

The success of a dedicated team

This success is the result of hard and rigorous work, of particular and consistent attention to quality and to the tiniest detail and, above all, of an ultra-performing team. After the financial crisis of 2009, José Iraolagoitia, CEO of Microdeco, was aware of the risk of focusing on one market only and decided to envisage a diversification of the company's activities. Mr. Iraolagoitia is fully aware of the skills of his team and of the expertise the team has developed for the customers from the automotive industry. Microdeco excels in the rigorous control of costs and quality.

Thorough reflections and evaluations brought Microdeco to opt for the medical market for its diversification. For Spain, this is an important market that is only weakly linked to the automotive market. The CEO explains: "This diversification was intended to enable us to benefit from a better stability while making our know-how available to the medical market. However, the requirements of these markets are different, just as the required certifications are. We soon recognized that this activity had to be an activity of its own for us to be competitive. Once this

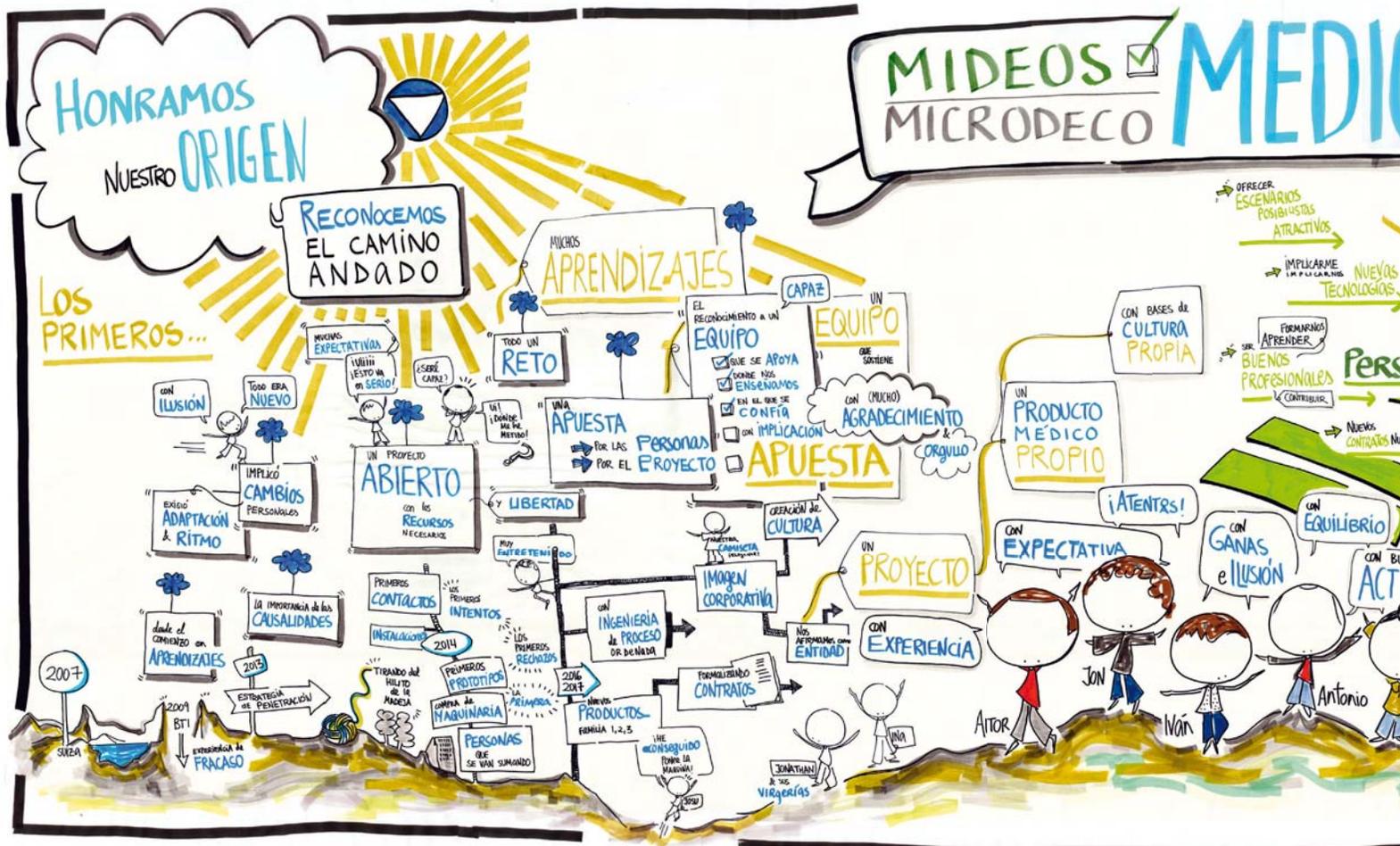
“EvoDeco is a real production-oriented machine. Once set up, its power and its kinematic features are making the difference in a most compelling manner”

production unit has proved to be profitable, we decided to establish a medical spin-off company under the name Mideos. Fully independent of Microdeco, this company has been founded on the same values and on a team spirit focused on performance and flexibility. Mideos is specialized in small-batch manufacture with very short development times from order receipt to production and, finally, to delivery.

**2½ years of Mideos:
more than 500 different set-ups**

Mideos transfers the required strictness from the production of automotive components to the world of medical technology and, in particular, of dental implants. Mideos is a real flexibility champion. Very frequent set-up changes are not an issue and the company responds to any type of request, from large-batch production to prototyping. As another specialty, Mideos manufactures single parts that are tailored to the individual patient. The company machines any type of material – titanium, the toughest

The history of the Mideos company at a glance.



stainless steels, cobalt-chrome or even PEEK. In a little more than two years, more than 500 different set-ups have already been realized. "This impressive number e.g. does not include the workpieces of the same type but of different lengths," the CEO emphasizes. The parts included in this number are really different parts which is the best proof – if any such proof were needed – of the company's flexibility. Mideos does not only stand out for this extraordinary flexibility but also for the ultra-efficient control of quality and costs. A broad range of technologies – operations such as heat treatment, grinding, surface treatment, cleaning and a large number of so-called secondary operations – is made available to the customers of Mideos.

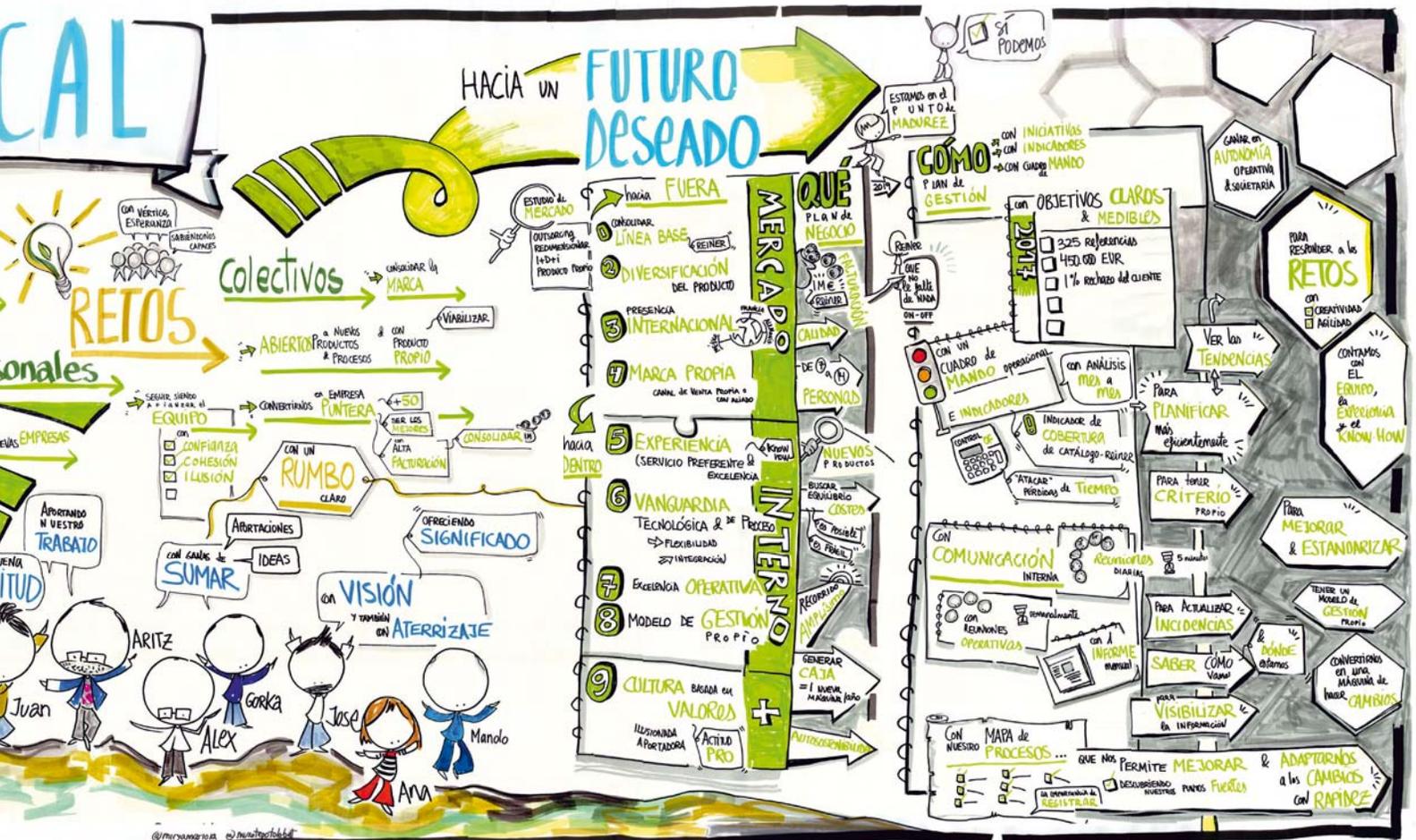
A win-win partnership

Mideos has acquired significant expertise in different types of workpieces, and dental implants are only one facet of the product range offered by Mideos. The company also manufactures maxillofacial implants,

bone screws for the spine, or polyaxial locking heads made of various types of materials.

Mideos' customers are major OEMs active in the medical field; the company has no own brand.

Nevertheless, they didn't want to confine themselves to mere machining and, from the very beginning, they wanted to have their own research and development division. To create a win-win situation, this think tank is able to interact with the final customer. In this way, the company makes its machining expertise available to the customers to jointly find the best compromise between functionality and costs. This kind of collaboration is often intense and both parties benefit from it. It is a real partnership which enables an exchange of views which is constructive both for the customers and for Mideos. "We are working hand in hand to jointly achieve success; for us, this is a key aspect," José Iraolagoitia emphasizes. "Once we have received the design drawing from our customer, we start by preparing the production



plan, create the part program and define the control model. We then set-up the machine accordingly and start series production. The parts undergo the subsequent final inspection before they are shipped. One of Mideos' strengths is quality control."

Why was Tornos chosen? That's obvious!

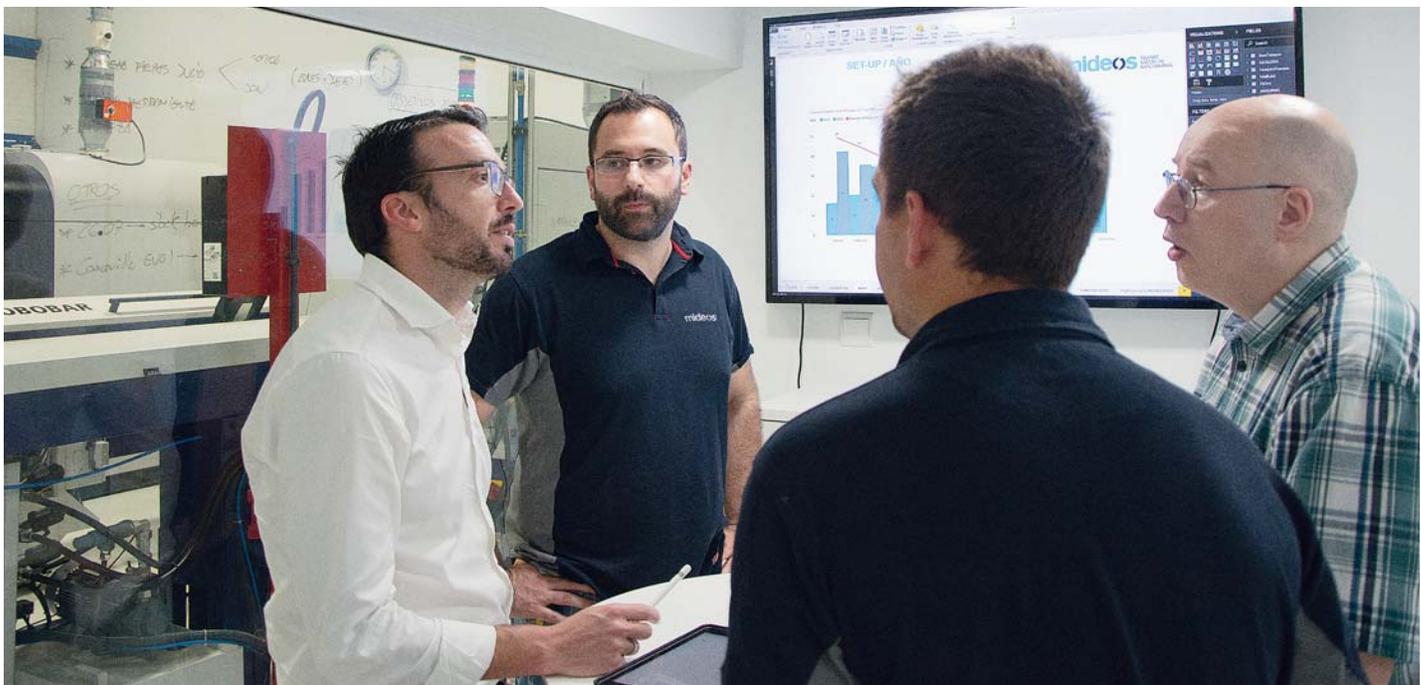
Why did they choose Tornos? "This is a brand we know well and which has an excellent reputation in the medical industry. Right from the start of the

project, we have been able to count on the professionalism of Tornos Spain. We rather quickly opted for the EvoDeco machines or, to be more specific, for the EvoDeco 16 which, today, constitutes the majority of our machine inventory. From the very beginning, we wanted to get a machine that was able to realize the most complex components. We simply did not want to be limited by our means of production. Some of our machines are even equipped with B axis that enable us to go even further. With its four independent tool systems, its four motor drives for driven tools and the

The Tornos EvoDeco machines play an important role in the development of Mideos. Power, kinematic features, cycle time, reliability... anything united to guarantee success.



Machining expertise is essential, but quality surveillance skills are equally important.



Strategy meeting on the Mideos premises; from left to right: José Iraolagoitia, CEO; Aritz Serrano, Production & Quality Responsible; Ivan Abril, CNC Programation and Setting-up Responsible; Alex Boulosa, Process Engineering and Planning&Scheduling Responsible.

large number of tool holders available, the EvoDeco is simply the ideal machine for the workpieces we have to machine. In case a workpiece with a max. diameter of 16 mm has to be processed, the machine is able to do so, no matter how complex the part is," the CEO explains. Thanks to the high flexibility of the machines, the Mideos team can finish the workpieces with short lead times and at an extremely competitive price. He continues: "Setting the machine is done in no time, so, we can realize several set-up changes per day. The machine is just like Mideos: ultra-flexible. It can be adapted to the requirements of each individual workpiece and efficiently produce single items."

José Iraolagoitia summarizes: "EvoDeco is a real production-oriented machine. Once set up, its power and its kinematic features are making the difference in a most compelling manner. As for me, I think there's no other machine in the market that is able to compete with EvoDeco's cycle times. The machining process is stable and the machines have given proof

of their exemplary reliability so far. Our EvoDeco machines have become true and essential partners of our production team. To support them, we solely use tried and tested high-quality equipment for our production processes. But not only for our equipment but also for our oils and tools, we have selected top suppliers – we purchase our oil from Motorex and our tools e.g. from Applitec, Bimu, Iscar, or Micron. Their pronounced goal is to guarantee quality and traceability at all times, whether for large-batch production or for prototyping."

Today, Mideos pursues its growth step by step in a most serene manner. The young and dynamic staff is ready to tackle the new challenges of the medical industry. Now it's up to you to test the responsiveness of the company.

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