

“HIGH PRECISION AMONG THE VINES”

When one mentions the PENEDÉS region in Spain, its wine cellars and wines immediately come to mind. One cannot help but be surprised to find a bar turning company in the heart of this region. Decordal S.L. is located in this idyllic setting, among the vines.



Decordal is in an idyllic location, surrounded by vineyards, in a region famous for its cava and wine.

Nearly forty years ago, a young machinist and his wife established a small bar turning workshop which, grew little by little into a company that has become a benchmark in its field.

The founders passed their enterprising spirit and strength onto their successors who have brought the innovation and dynamism that comes with youth.

Based on both youth, experience and constantly adapting to meet the current trends in the market, Decordal has reached an enviable position in the world of precision machining. In 1974, Tomàs Salvador and Maria Farràs created Industrial TS, a bar turning company machining parts from 6 to 45 mm in diameter. At the time, the factory was mainly supplying parts for the electrical sector and the motorcycle industry. Thanks to the experience gained, they established Decordal S.L. in 1998 with the aim of focusing on precision micro bar turning. They could thus meet the needs of their customers by widen-

ing the range of machined parts in diameters from 8 to 45 mm to supply the outsourcing and equipment production industries. Today, the range is extended to diameters from 0.6 to 65 mm and covers all types of raw materials (steel and stainless steel, aluminium, copper and brass, titanium, technical plastics, carbon fibre, silver, etc.).

The company's confidence has always relied on the use of Tornos and Bechler machines, although it has always felt more in harmony with the technological concepts applied by Tornos. In 1997, Decordal enlarged its installations and obtained ISO:9002 certification. The first numerical controlled (CNC) machine was then added to the inventory. Today the company has 16 CNC machines with fixed or sliding headstock, as well as 70 cam-type turning machines and many items of auxiliary equipment.

For its latest CNC machine acquisitions, the company got back in touch with Tornos due to its favourable

Presentation



The company's installations, where they combine CNC technology and still very precise cam-type machines.



The company has a grey room and a 3D vision and palpation system.

warranty criteria, reliability and versatility in the construction of cam-type turning machines, thereby re-iterating its confidence in the Swiss brand. The spirit of Decordal – professionalism, dynamism and flexibility is reflected in the perfection inherent in the operation of Tornos machines. The latest acquisition, a Tornos Sigma 32 turning machine, was acquired to respond to the need for a fully equipped machine capable

of machining large diameters and able to undertake complex operations.

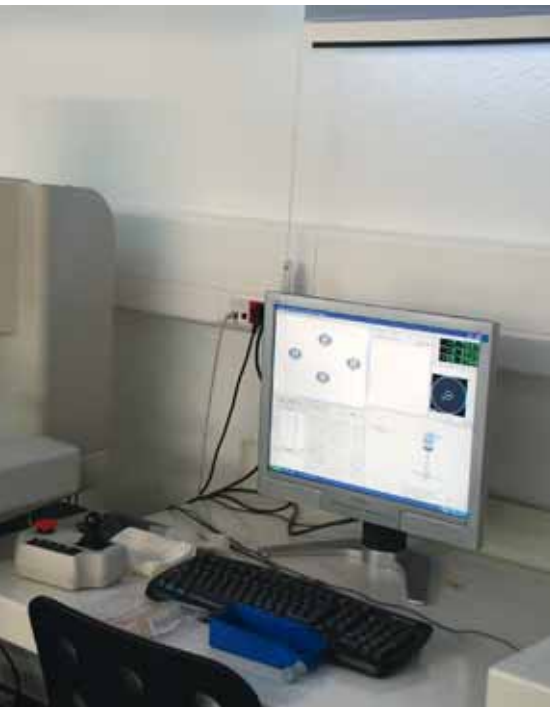
The purchase of these machines, an indicator of technological improvements, made it possible to offer a more specialised product, especially for small or mid-scale runs, where technological value is greatest. The objective to design production processes able to offer solutions to suit the needs of the customers

A TORNOS MACHINE EVERY YEAR

After a fire in 2008 and despite the economic downturn, Decordal did not go under, quite the contrary. After the reconstruction of its installations, it struck back and ordered its first Tornos CNC machine, the Delta 20/5 III, at the Maquitech 2009 fair in Barcelona.

The idea was to replace the cam-type machines and eliminate secondary operations in order to gain flexibility and reduce preparation times. This decision led to great success: the machine delivered on all its promises and Tornos' service couldn't have been better. In a short period of time, the automatic turning personnel were trained in the handling of CNC machines and a year later, during the Bilbao 2010 biennial convention, quite naturally the company decided to continue the tradition of buying machines at fairs. The Sigma 32 turning machine was chosen. This machine has managed to surprise Decordal's technical managers with its robustness and swarf removal capabilities.

Decordal and Tornos are two companies with promising futures endowed with excellent technology. A real success story!



After one year, they were so satisfied with the Delta that they decided to buy a Sigma 32.

was achieved. This is often a difficult task given the different fields of activity: automotive, motorcycles, aeronautics, rail, medical, arms, electronics, electrical, renewable energy and jewellery.

In June 2008, Decordal suffered a reversal of fortune: a fire affected a large part of its plant. This incident, in addition to the economic downturn and the state of world markets, marked the tipping point in the company's strategy. From this point, the younger generation took over in order to reach a new level: Núria Salvador today manages the administrative department of the company, and Carles Salvador is the head of the technical branch. The fact that the company exports to all continents made it possible to successfully overcome this setback. Whereas many companies in the sector were forced to restrict and regulate their production; Decordal was able to continue investing. Over the last two financial years the company acquired a Tornos Delta 20/5 machine and a Tornos Sigma 32 turning machine.

The first acquisition of a Tornos Sigma turning machine is in response to the need to machine products such as the 17-4PH for H1070 conditioning; these products require a very rigid machine with a high swarf removal capacity. The Tornos Sigma offers these features. Furthermore, it is versatile when it comes to configuration with

quick and easy to change parts. It is these characteristics that Decordal will need in the future to be able to position itself successfully within the new markets.

Decordal is a company that prefers to work on a series of turning machines rather than a large number of machines. This is why its range of automatic turning machines was built around prestige makes like Tornos and Bechler. The acquisition of the Delta 20/5 turning machine was therefore the opportunity to start gradually replacing the cam-type turning machines.

From the outset, the Delta 20/5 machine appeared to be a very compact turning machine, easy to configure and able to open the way to new markets. All training was entrusted to Tornos Technologies Ibérica and the changeover from cam-type turning machines to CNC machines took place very quickly. The collaboration between the two companies made it possible to consolidate a new line of Tornos Delta turning machines within Decordal. The customer is completely satisfied with the functions offered by Delta. Gregor Moreno (zone sales manager) relates an anecdote involving Carles Salvador: *"He was teasing me and saying that one day the machine would stop. He told me, with a smile, that since buying it the machine had only been stopped for maintenance. It's true that at Decordal, the Delta turning machine is always in use. But one day, when I arrived the whole workshop was at a standstill and the staff was cleaning. I couldn't resist*

Presentation



From left to right, Francesc Oller (Tornos), Tomás Salvador (Decordal) and Gregor Moreno (Tornos) during the last edition of the BIEMH (The Spanish Machine Tool Biennial), acquiring the new Sigma 32.

and so jokingly, I told him that I could finally see the machine stopped. He then explained that every Friday, the whole workshop set to work for a few hours to clean and tidy". While joking, the two men started discussing these two facts: the Delta turning machine is a very reliable and consistent machine and Decordal is an organised, meticulous and very clean company.

This is essential and compulsory for any company, but it has been noted that it is not always done among certain industries in the sector. With Decordal, these values are also applied to processes and are manifest

in the finishes of its parts, which makes it possible to obtain exceptional quality and precision. Despite the specific difficulties of parts to be machined, the company is well known for its expertise in the machining of highly complex parts.

The challenge was to establish itself in the sector of small and medium-scale runs of complex parts.

Meeting the requirements of sectors such as the aeronautic sector is a daily challenge and to achieve this, each Decordal delivery is accompanied by computer management. This has been specially designed for the company, an approach that allows optimised control of each process. It also manages data from the order right up to settlement of the invoice. This system encompasses management, production and commercialisation. It is the first phase of a project that will allow customers access to the system to consult and manage their orders. The creation of a new website that will incorporate the final phase of the project is currently being planned.

Decordal is a modern company, full of projects that have been or will be successfully completed to work with different public and private organisations.

Decordal S.L.

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DECORDAL IN BRIEF

Founded:	1974
Number of employees:	70
Exports:	to 14 countries in Europe, America, Asia and Africa
Range:	Ø 0.6 mm to Ø 65 mm
Run sizes:	from 100 to 100,000 units
Certification:	ISO 9001:2008 delivered by Bureau Veritas
Facility:	1,500 m ²
Sectors:	aeronautic, windpower, automotive, electricity, electronics, rail industry, jewellery, household appliances, military sector, agricultural and wine producing machinery, motorcycles, nautical industry, optics and telecommunications