

## EACH TOOL IS A PIECE OF JEWELRY

**Guymara is a family business that specializes in the production of solid carbide micro tools with a focus on the production of special tools with tolerances in the micron range. Together with Guymara's CEO, Mr. Miguel Cabral, DecoMagazine provides a brief introduction.**



A great many renowned companies in the watch making and medical industries rely on tools made by Guymara.

The history of Guymara dates back to the mid-1990s: after he had been working for 15 years for a Swiss manufacturer of micro cutting tools, Mr. Miguel Lisboa decided to put his experience into his own enterprise, founding his own mechanic's shop in the Porto region of Portugal where he was supported in the production of high-precision tools by his daughter Carla. During the financial crisis of 2008, he asserted that he needed to expand his customer base. For Carla and her husband Miguel, that

was the right moment to seize the opportunity and, together, they decided to establish the company Guymara.

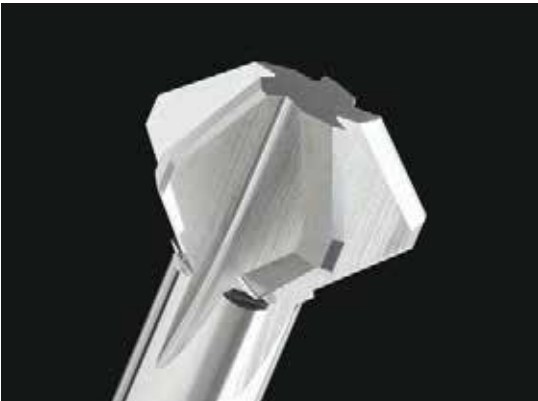
### **Quality? Swiss quality!**

*"Swiss quality is our mission statement,"* the CEO of this small 10-employee enterprise explains. With 20 years' experience in the Swiss tool production industry and thanks to its Swiss-Portuguese management,

The present



For 20 years, the members of the small team have been sharing the same passion for high quality and precision.



the company is a kind of Swiss workshop based in Portugal. Strict manufacturing processes and quality control enable Guymara to guarantee the highest quality standards. Mr. Cabral adds: *"Every detail is important to us and we treat each tool like a small piece of jewelry."*

Mirror finish, sharp cutting edges and strict compliance with the tolerances form an integral part of Guymara's DNA. During all stages of production, each tool is individually checked to ensure that it corresponds to the high quality standards offered by the company. These standards include dimensional accuracy and concentricity tolerances of less than 2 microns.

### **High-tech combined with tradition**

Based on the fact that the company has its roots in the traditional but technically demanding Swiss watch making industry, Guymara supplies renowned dental and surgical technology customers throughout Europe as well as high-precision engineering, medical technology, aerospace, automotive, optics and electronics customers that may demand reliable high-precision tools. The CEO explains: *"The quality of the Ewag and Rollomatic tool grinding machines speak for themselves, but the know-how that is at the center of the tool grinding craftsmanship is essential for obtaining micro tools of complex shapes and getting the micrometer under control."*

## OVERVIEW OF THE PRODUCT LINES

### **Drilling and reaming**

Various types of drills such as the spade drill, twist drill, gun drill, center drill, reamer, conical reamer, broach.

Types: simple, stepped and profile types with a diameter from 0.15 mm onwards. Diameter tolerances offered from 2 µm.

### **Counter boring**

Z1 mill, countersinker, core drill, form mill, groove milling cutter.

Types: straight, with alternate cutters. Diameter tolerances from 2 µm, shape tolerance up to 3 µm.

### **Grooving and contouring**

T-slot cutter, thread-whirling cutter, chamfering mill, form mill, dovetail milling cutter.

Types: straight with alternate cutters. Diameter tolerance up to 2 µm, shape tolerance up to 3 µm.

### **Milling**

Ball nose end mill, conical milling cutter, form mill, end mill, engraving mill, bull nose end mill.

Types: straight, helical, reinforced. Diameter tolerance up to 2 µm.

### **Turning**

Grooving tool, hook-type tool, boring tool, deburring tool.

Types with or without positioning/clamping face. From diameters of 0.15 mm onwards.

### **Punching**

Special-shape punch, multi-face punch, gauges.

Types with or without positioning/clamping face. From diameters of 0.15 mm onwards.

Diameter tolerance up to 2 µm, shape tolerance up to 3 µm.

## The present



### Flexible production...

Guymara attaches great importance to the means used to ensure its tools are produced under the best possible conditions – from start to finish. The combined use of manual and CNC technologies enables the company to achieve a level of precision and repeatability that is difficult to achieve when using solely manual production. The company's machine inventory is the basis for the economic production of specific parts such as prototypes, from small series to large series.

### ... and supply

In view of the constantly decreasing lead-times to market, its small company structure enables Guymara to be highly responsive and flexible. *"For our customers, this means a competitive advantage in terms of both tool development and delivery times,"* Mr. Cabral declares. Services start upon receipt of the customer's drawings and the service ranges from feasibility studies and manufacturing to consultation in the development of specific tools. Machining tests can be performed as well. The CEO summarizes: *"The ordered goods are shipped by express courier and are delivered within 24 hours throughout Europe and Switzerland."*

### For most demanding industries

Guymara has a long tradition in the development and manufacturing of micro tools and in particular, it has been supplying the watch making and medical/dental industries. Mr. Cabral explains: *"We boast a vast experience in the production of special tools that comply with the strict requirements in terms of repeatability, geometrical and dimensional accuracy, surface finish and traceability."*



Rua Viterbo de Campos, 10  
4400-344 Vila Nova de Gaia  
Portugal  
Phone: +351 227 837 404  
Fax: +351 220 105 492  
sales@guymara.com  
www.guymara.com