



**SORALUCE**

*Setting new standards*

NEW  
CHALLENGES  
NEED  
NEW  
SOLUTIONS  
NEW

**MOLDATA**

**CUSTOMER EXPERIENCES**



## CUSTOMER EXPERIENCES MOLDATA

Ricardo Caseiro, Production Director of Moldata, said:

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## ARTICLE

**M**OLDATA Lda., founded in 1998, carries out its activity bringing together experience, drive and state-of-the-art technology, and is an established leader in the mould industry. Located in one of the main mould-manufacturing hubs in the world, its ideal location offers additional support by specialised services in accessory manufacture, heat treatment, international logistics and technological research.

MOLDATA, with 20 years of experience in the sector, has based its position of leadership in the mould-manufacturing industry on an absolute specialisation in the manufacture of mould-holders as well as on very high-quality machining services. MOLDATA currently manufactures mould-holders for the main European mould manufacturers, asserting itself as an indispensable partner to guarantee the competitiveness of its customers. With three specialised production units, comprising a production area of 2,500 m<sup>2</sup>, the company has a total production capacity of up to 35 tonnes, with part dimensions of up to 3000x1600x1500 mm, and an availability of up to 8,500 machine hours per month.

MOLDATA finds itself in a constant process of refinement and development incorporating the most advanced production facilities into its processes, giving the company the ability to do ever more precise, more complex and large-scale work.

Following this approach, MOLDATA has acquired a bed type milling centre with a rotary table, the SORALUCE TA-D 20.

The machine features a rotary table of 1,250 x 1,250 mm with load capacity for parts of up to 7,500 kg and accuracy rotational of  $\pm 1$ .

In addition, the machine is equipped with a vertical high-speed continuous positioning head ( $\pm 92^\circ$ ) with an integrated high capacity motorspindle of 25 kW at 15,000 rpm for continuous machining on 5 axes.

The machine also features the ACCURA HEADS technology by SORALUCE. ACCURA HEADS makes it possible to compensate the head articulation positioning deviation for one particular position of the head. It allows compensation of the head's kinematic values in specific angular head positions. This option gives the machine maximum accuracy as the measurement cycle is carried out just before the milling operation. In addition, the machine has measurement probes for both parts and tools.

The machine is equipped with complete enclosure that integrates two front sliding doors and one at the back on the left, facilitating access to the work area from the front and rear. The CNC control (Heidenhain ITNC 530 HSCI) is incorporated into a hanging button pad arm that can be positioned to work from either the front or rear of the machine, as per customer preference, thus providing suitable control over the entire operation.



## INTERVIEW

### What are the advantages of the new SORALUCE TA-D 20 milling machine in the production process?

The new SORALUCE milling machine has enabled us to obtain greater capacity in the machining of the parts, by means of greater versatility in operations that comes with the use of the continuous 5-axis centre. Therefore, this 5-axis machining centre enables us to carry out more complex and diverse operations that, without this centre, would require more machines and machining time. The use of 5 axes facilitates work on parts with a complex geometry and surface, reducing the number of part set-ups and configuration times and improving the precision of the operations on different machining planes. The SORALUCE TA-D 20 machine has enabled us to reduce the machining time of the parts considerably.

### What would you highlight from the solution provided by SORALUCE?

Given the extensive variety of combinations of the linear axes (X, Y, Z) and rotary elements (head, table), it gives us a greater amplitude in the angle, covering the greatest number of machining situations and greater operational versatility, which in turn strengthens our ability to respond in our projects and provides better performance.

This solution by SORALUCE has enabled us to increase our production volume and the precision of the parts produced, to reduce the production time of each part, and consequently to reduce the delivery time. Especially the latter is a critical factor for the success of the company, which sets us apart in the market.

### How would you rate your experience of SORALUCE in the mould sector?

SORALUCE is a leader in milling technology for all companies that work in the mould sector. With their solutions, companies are able to improve the efficiency, productivity and quality of their operations, in addition to the significant added value delivered through quality, technical assistance and professionalism.

SORALUCE's commitment to developing and offering market solutions at the forefront of technology, with more precise and productive machines, enables us to optimise our production processes constantly and to offer our customers an improved response and higher production quality.