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Job Shop deluxe: A decade of success with Bumotec Lamborghini upstairs, high-end machining downstairs

Precision work: Using a Bumotec s191V from Starrag, Niru Swiss cuts the 15-mm-high, 46-mm-wide case of the new UR-111C wristwatch from Urwerk from a stainless steel blank, including a 20-mm deep side compartment to accommodate the movement.

Geneva

A premium top-down concept: Four words to describe an exclusive location in Geneva. Upstairs is a Lamborghini showroom, while the bottom level is home to Niru Swiss, which machines highly complex components for the jewellery and watchmaking industry. However, the most exclusive piece on display is not an Italian sportscar, but the Bumotec s191V 5-axis machining centre from Starrag.
Satisfied customers will occasionally talk about why a Job Shop de Luxe and its production technology can be counted among the best of its kind. “It is not possible to create the unusual case design using conventional production technology”, says Felix Baumgartner, founder of chronometer brand Urwerk. There is much talk in the industry of the case of the new UR-111C wristwatch, which is just 15 mm high and 46 mm wide and does not require a screw-on bottom plate. Instead, it is cut in a single piece from a stainless steel blank and includes a 20-mm-deep side compartment to accommodate the movement. This all takes place at Niru Swiss AG with the typically high quality of the Bumotec s191V 5-axis machining centre, which delivers excellent repeating accuracy to the last micrometer.

Managing Director Julien Ducommun and his four employees have the Bumotec s191V vertical CNC high-performance machining centre to thank for producing such specialized products. This machining centre is capable of precise and productive machining of highly complex components for the jewellery and watchmaking industry. The team in Geneva uses a total of four CNC machine tools, three of which were already owned by a company that Niru acquired. Choosing Bumotec for its fourth machine was a conscious decision for Niru. The combination of linear motors, direct drives, nano interpolation and a high measurement resolution of 1/100 µm enables excellent contouring accuracy (e.g. a roundness of 1.4 µm with a radius of 50 mm). The “excellent thermal stability” allows Ducommun and his team to turn and cut components continuously from early in the morning until late at night without any loss of precision. With this technology, the
Company profile Starrrag
High-precision machine tools for greater productivity

Starrrag Group is a global technology leader in manufacturing high-precision machine tools for milling, turning, boring and grinding workpieces of metallic, composite and ceramic materials. Principle customers are internationally active companies in the Aero-space, Energy, Transportation and Industrial sectors (Industrial Components, Luxury Goods, Med Tech). In addition to its portfolio of machine tools, Starrrag Group provides integrated technology and maintenance services that significantly enhance customer quality and productivity.

The umbrella brand Starrrag unites the product ranges Berthiez, Bumotec, Dörries, Droop+Rein, Ecospeed, Heckert, Scharmann, SIP, Starrrag, TTL and WMW. Headquartered in Rorschach/Switzerland, the Starrrag Group operates manufacturing plants in Switzerland, Germany, France, the UK and India and has established a network of sales and services subsidiaries in the most important customer countries.

The shares of Starrrag Group Holding AG are listed on the SIX Swiss Exchange.

For further information

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Avant-garde: With its UR-111C, Swiss brand Urwerk once again appears to have achieved the impossible – a mechanical wristwatch with a linear time display.

Ducommun: “For me, the most important requirements in this competitive field are the ability to deliver optimum productivity, precision and stability. And that’s why I can say with certainty that my next CNC machine will also be a Bumotec.”