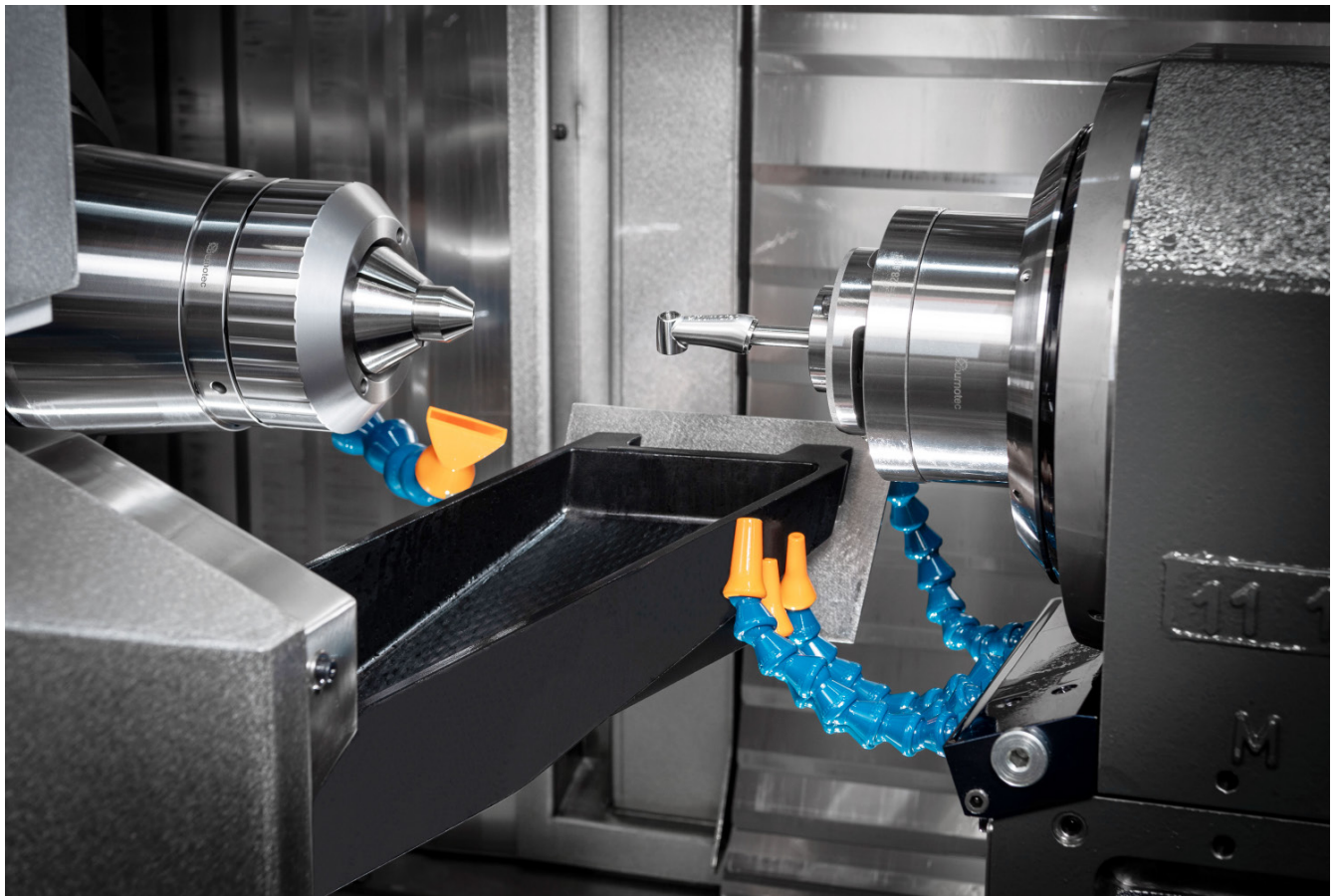


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191^{neo}: Performance has a future



Born from an ambitious challenge, our production experts – including industrialisation and quality – our application specialists, our service technicians and our construction engineers have joined forces to develop a new machining centre offering a level of performance worthy of our brand: the redesigned "191" flagship model from the Bumotec range.



What could we possibly add to this equipment, already renowned for its reliability, performance and modularity, a solution perfectly suited to the many challenges of machining precise parts with high added value? Development was driven by the economic performance of our customers, and the requirements resulting from the latest quality standards, with the results already proving a great success.

By combining all of our expertise inside a truly ergonomic enclosure, we have created the Bumotec 191^{neo}. With a large area of windows, and perfectly positioned access doors, it provides unrivalled visibility of the different zones within the machine, and unmatched accessibility for all operators. Its touch display man-machine interface, developed from a Windows-based PC application, can be used to easily swipe between screens.

Amongst other functions, it can be used to monitor the progress of current machining operations, configure the programming, or track production in real time. In addition, the approach defined in conjunction with representative operators ensures training is user-friendly and intuitive also with the objective of reducing the level of skills of operators.

A precision machining solution with 12 different faces

Available in four versions – “P” with vice, “PRM” with multipurpose pickup vice, “R” with back-working spindle, and “RP” with a combined vice and back-working spindle – and a choice of bar passage diameters of 42, 50 or 65 mm, we are not just releasing one production solution. There are twelve (12) separate machines based on a single platform. The Bumotec 191^{neo} provides a true economic and technical solution to both the current and future challenges arising from specific

requirements relating to medical technologies, but also the luxury industry, and, more broadly, the micro-mechanics sector.

Tried and tested superior performance

Extremely stable during production without any intervention from operators, the 191^{neo} offers a formidable level of productivity. The tool change time, which has been reduced by some 15 %, further improves its response to the most demanding

cycle time constraints. To this is added the milling spindle with higher torque developed and produced by Starrag, and a back-working movement controlled by an electric motor, 12 % faster and with rigid, precise position control. As has long been standard for Bumotec, its tool magazine has 90 positions and integrates now a tool breakage probe which runs in parallel. Coupled with the now traditional Bumotec palletiser or with a robotic, modular or custom-made automated cell, this gives you access to “24/7” type production, which is only interrupted by preventive maintenance when required.





Equipped with “à la carte” peripherals, such as temperature-controlled high pressure, chip conveyor and a Bumotec or other commercially-available bar-loader known by our customers, the modular nature of the 191^{neo} ensures all customer needs can be met. In addition to milling and turning, it can also be used for grinding, polishing, skiving, gear hobbing and diamond cutting, thereby allowing complex, demanding parts to be completed without changing fixtures.

A solution focussed on digital transformation

This update of the range, benefiting from the reliability and stability during production inherited from the Bumotec s191, is focussed on digital transformation which ensures compatibility with the latest production technologies and management of the machining centre via remote access.

But that’s not all! The 191^{neo} also offers you other important advantages.

The cost per part is optimised as a result of investing in a machine that offers better value for money

Producing parts or equipment rationally and efficiently is the primary goal of many companies in the industry, but doing so more remains a daily challenge that all must meet if they are to ensure their growth and development. Designed and developed in a different way, adopting the principles of “Lean Manufacturing” which allows this new equipment to be offered at a price significantly lower than the current s191 version.

This new machining solution will enable you to realise considerable savings in cost per part. This provides the key to open up new markets, increasing both your competitiveness and your profitability.

A delivery time from three months, excluding the launch period

With markets undergoing constant development, and the pressure on supply chains remaining high, the lead time for delivery of production equipment should no longer be an obstacle to a company’s ability to develop its activities.

Depending on the configuration, and once series production has ramped up, the new 191^{neo} solution will eventually be available for pre-acceptance at the Starrag Vuadens factory within a lead time of as little as a few weeks. We must now work together to ensure the highest level of performance, and make the most of this extremely competitive advantage.

Make the shift to this new approach from Bumotec now. The future is something you can choose today. Contact us now to find out more about your future new production

standard, designed to easily overcome any obstacles on your path to increased profitability.

Scan the QR code below for an exclusive advance look at the full presentation of the 191^{neo} range in our virtual showroom. Angela, our sales engineer, will provide you with a detailed overview of the full scope of possibilities offered by this new "Swiss army knife" of high-precision machining, from renowned brand Bumotec.

Company profile Starrag High-precision machine tools for greater productivity

Starrag 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 Aerospace, Energy, Transportation and Industrial sectors (Industrial Components, Luxury Goods, Med Tech). In addition to its portfolio of machine tools, Starrag Group provides integrated technology and maintenance services that significantly enhance customer quality and productivity.

The umbrella brand Starrag unites the product ranges Berthiez, Bumotec, Dörries, Droop+Rein, Ecospeed, Heckert, Scharmann, SIP, Starrag, TTL and WMW. Headquartered in Rorschach/Switzerland, the Starrag 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 Starrag Group Holding AG are listed on the SIX Swiss Exchange.



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