

PRESS INFORMATION

Thin-layer technology: WIKUS, MEBA and Günther + Schramm cooperate on the flagship project

Spangenberg/Westerheim/Oberkochen, Germany, 30th March 2020: The combination of a band saw blade from WIKUS-Sägenfabrik and a respective machine from MEBA Metall-Bandsägemaschinen enables the steel trader [Günther + Schramm](#) to cut tempering steel with a diameter of 200 mm and marks its entry into thin-layer technology. The innovative flagship project by these three partners allows fast and efficient sawing of material with diameters of 130-300 mm using an innovative and powerful machine-band solution. This led to a cost reduction of approximately 20 percent for Günther + Schramm.



Improved cutting performance thanks to a higher torque and band saw blade innovation

The system service provider Günther + Schramm was not able to reach the specified machining rate for tempering steel with a diameter of 200 mm using its own sawing machine. The company wanted to find a manufacturer that could contribute a suitable machine for testing purposes. This paved the way for a joint project that also included MEBA.

During cutting tests with the band saw blade [ARION® FG](#) from [WIKUS](#) on a MEBA standard machine, it was possible to significantly increase the cutting rate to 320 cm²/min. The thin-layer band has also allowed Günther + Schramm to reduce cutting costs by 40 percent. The project partners see additional potential for raising the cutting speed of the band saw blade machine, which is why MEBA now provides the high-performance solution [MEBAxtreme 800-600](#). The machine is now twice as fast as every other standard machine available on the market. Tempering steel 42 CrMo4 with a diameter of 380 mm was cut with the band saw blade [ARION® FG](#) at a band saw blade speed of 300 m/min and a feed speed of 150 mm/min in just 2.5 minutes – with a further improved cutting rate of about 453 cm²/min.

“The great thing here for us and our customers is that we can now realise several hundred cuts at short notice,” says Michael Sticke, deputy operations manager at Günther + Schramm GmbH.

Thin-layer technology reduces cutting costs and increases the sawing capacity

The excellent cutting rates can be reached in combination with the band saw blade ARION® FG thanks to its carbide blade with a highly wear-resistant carbide coating. The special WIKUS thin-layer technology with excellent blade stability also ensures the precise evenness of the cutting surface. For further optimisation, WIKUS developed a special tooth geometry, calculated cutting parameters and monitored all cutting test series.

“With the thin-layer technology we are able to achieve approx. 20-35 m² per material distribution when sawing construction steels, tempering steels, rust and acid-resistant steels with diameters ranging between 40-280 mm,” reports Andreas Priel, Head of Design at MEBA Metall-Bandsägemaschinen GmbH.

The benefits of thin-layer technology range from low costs-per-cut and shorter cutting times through additional sawing capacity and material savings, and/or more sawing cuts from the material. “The technology allows productive, efficient and economic sawing and is worthwhile for steel traders that process orders with large lot sizes and also for forging workshops that process short cuts in large quantities,” explains Stefan Schwenda, technical supervisor at WIKUS-Sägenfabrik.

About Günther + Schramm

Günther + Schramm is the leading system service provider for steel, stainless steel and aluminium in southern Germany. The company was founded in 1930 and has a workforce of around 180 at four sites in Oberkochen, Königsbronn, Stuttgart and Mannheim. This steel trader and system service provider works in the classic metal trading industry, and also offers various tool manufacturing services, as well as realising complex outsourcing projects in the material and process logistics field.

About MEBA

MEBA are pioneers in band saw technology. Since 1958 the company has invested heavily in technology resulting in considerable developments in the field of bandsawing. MEBA have a wide range of metal bandsawing machines to choose from. Ranging from small manual and semi-automatic machines, up to double mitre fully automatic CNC machines. Customers include small workshops, steel fabricators, steel stockholders, and the automotive industry as well as production engineering and heavy industry. MEBA can also manufacture customized in-feed and out-feed material handling systems with a variety of material end stops to suit tailor made requirements.

For us change has always meant observing and evaluating new technologies while continuously incorporating what is useful for the final user into our products. That is why close dialogue with you is and remains a central component of our work. Also in the digital world, we are pursuing the goal of being one of the best providers of benefit-oriented sawing solutions worldwide in the future.

In the end, digitilization should benefit everyone.

About WIKUS

WIKUS – TOP OF THE RANGE QUALITY, ‘MADE IN GERMANY’

WIKUS is the world market leader for sawing metal and Europe's largest manufacturer of band saw blades. Users from foundries and from the steel production/trade, machine/tool construction, aerospace, automotive, construction, energy and many more industries rely on the highly-efficient solutions by WIKUS.

Thanks to the best input materials, state-of-the-art production procedures and continuous quality inspections, the WIKUS-Sägenfabrik from the town of Spangenberg in North Hesse has guaranteed the highest of standards when producing high-tech band saw blades since 1958. At the same time, this family-run company sets product and technology trends in the market with its innovative prowess. In addition to the high-performance product program, WIKUS offers an extensive range of services tailored to the respective product. Partner companies and sales and service companies across the world offer competent and personal support on site.

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