

New standards for rolling systems

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Boehlerit, Austrian carbide and tool specialist, is extending its product portfolio and has found a competent partner in Adam Rollsysteme GmbH for advice on and application of profile and thread rolling heads as well as the design of customer-specific, purpose-built models of axial and tangential rolling systems.

Why rolling systems? In the aerospace industry, for instance, machining is considered an undesirable processing method due to the associated destruction of the milling fibres. With rolling, the desired profile is pressed into the material beyond the stress-strain limit, which means that fibres are not destroyed, but merely re-shaped. The tensile strength of the material is thereby increased by 10 to 20%. This is an enormous challenge for the tools applied in the process.

The Adam axial and tangential rolling systems by Boehlerit offer not just extremely short cycle times, long tool life, perfect surface qualities and outstanding precision, but are also highly economical as they reduce the amount of material used. The Adam axial rolling systems cover a working range of 1.4 to 100 mm and are primarily used on turning and milling centres to process threads and profiles. The tangential rolling systems, on the other hand, are ideal for manufacturing extremely short threads, threads with short runouts as well as knurls and smaller gears. The working range lies at 1.6 to 42 mm, with a roll width of 15.5 to 31 mm. With every Adam tangential rolling system, Boehlerit supplies customised rolling head holders for fitting the rolling head to the tooling machine. With these rolling systems, the Kapfenberg-based company offers a wide range of tool solutions that will suit most application scenarios.

Boehlerit will present its rolling systems to the market at the Intertool in Vienna in 2018.

Press release

The company

Boehlerit, headquartered in the Austrian town of Kapfenberg, sets global standards with carbides and tools for the processing of metal, wood, plastics and composites. With cutting materials, semi-finished products, precision tools and tool systems for milling, turning, drilling and forming, Boehlerit ensures process safety and efficiency on a global scale. The company's extensive product portfolio includes highly specialised tools for the machining of crankshafts as well as for the mining industry, for bar peeling, tube and sheet metal processing and heavy-duty machining. The Boehlerit product range also features carbides for construction components and wear protection. When it comes to coating technology, Boehlerit holds a global monopoly, ranging from the first-ever nano-CVD bonding layer to the hardest diamond layer worldwide. With its many years' experience in metallurgy, coating technology and state-of-the-art press technology, Boehlerit is a highly competent development partner for toolmakers.

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Pictures

Abb. 1: Thread rolling heads

