

Press Release

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Sophisticated Inovatools tool solutions at AMB 2018:

Produce Surfaces of Exceptional Brilliance Quickly with the New CurveMax Milling Cutters

H3 Unique design features for outstanding tool performance

The new CSC (Curve Segment Cutting) CurveMax milling cutters from tool manufacturer Inovatools not only reduce processing times for finishing complex free-form surfaces in tool and mold construction, turbine blade production. and complex geometries component general machine engineering, but also enhance surface quality compared with the full-radius mills previously used for these tasks. At AMB, the tool specialists from Kinding-Haunstetten in Germany will be showcasing a number of brand-new tools concerning this CSC strategy, respectively the arc segment milling cutter strategy at stand C50 in hall 3. The event will also be an opportunity for the company to present its various tool solutions for a range of cutting applications, including the FightMax series for processing steel materials and the new Primus aluminum roughing end mills.

Presscontact:

KSKOMM GmbH & Co. KG Jahnstraße 13 56235 Ransbach-Baumbach Germany

Phone: +49 2623 900780 Fax: +49 2623 900778

E-Mail: ks@kskomm.de

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At AMB, Inovatools is set to showcase its high-quality precision tools for the metal machining industry – from threaded tools, mills, drills, reamers and counterbores to gauges, saw blades and countless other special solutions with a range of features and designs – as well as its comprehensive portfolio of additional services.

Barrel milling cutters boost productivity and quality

A highlight of the trade show stand will be the new CSC CurveMax milling cutters, available in a conical or tangential design. The four-edged cutter from Inovatools is ideal for finishing applications. **Tobias** Eckerle, Product Manager at Inovatools, explains: "The CNC strategy is a prime example of how we've combined the latest high-performance CAM software with powerful processing centers and innovative new tooling to develop pioneering new cutting techniques."

The new CurveMax milling cutters from Inovatools feature special geometries to permit larger path distances and line jumps during pre-finishing and finishing. The working radius is larger than that of a traditional full-radius mill, yet the tool still has the same diameter. The new process increases surface quality and significantly shortens processing times.

Tobias Eckerle continues: "Powerful processing machines can calculate the optimum path for our new CurveMax tools to make maximum use of our unique tool geometry. As well



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as enhanced surface quality and shorter production times, our CurveMax milling cutters significantly boost productivity; at some point in the future, they will completely replace traditional full-radius mills."

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FightMax now available in diameter range from 3 mm upwards: optimum cutting of steel materials

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Inovatools has already successfully launched the FightMax HPC mill series for machining steel materials and the INOX series. They are now available in a diameter range from 3 mm upwards to 20 mm). The FightMax INOX VHM-HPC roughing and finishing milling cutter is just one example from the tool series. Its special geometry and chip removal technology, as well as its defined edge preparation process and micro-geometry, result in a robust, high-performance milling cutter. Performance is enhanced by the smooth highperformance DUOCON coating, guaranteeing the FightMax INOX a long service life, even at high feed rates and cutting speeds.

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High-performance aluminum cutting with Primus

The Inovatools stand at the trade show will also incorporate solutions for machining nonferrous metals – including cutting aluminum. Inovatools will showcase the high-end Primus HPC aluminum roughing end mill, which comes complete with internal cooling and multiturning technology. Thanks to its unique design features, such



as its special entwined tooth 134 system, edge preparation, op-135 timized micro-geometry and 136 high-performance Ta-C coating, 137 the mill is equipped to deliver 138 consistently quiet, low-vibration, 139 energy-efficient performance 140 even at extremely high feed 141 rates. 142 **Tobias** Eckerle comments: 143 "Since Inovatools has all the 144 relevant quality factors of tool 145 manufacture, such as design, 146 carbide manufacture, edge 147 preparation and coating, under 148 its own control, any new tool we 149 produce is quick to reach users 150 and meet market requirements 151 - and we can guarantee opti-152 mum product quality. Visitors to 153 AMB can find out more about 154 our comprehensive product 155 portfolio at our trade show 156 stand." 157 158 The Inovatools trade show 159 stand will be located at stand 160 C50 in hall 3. 161 162 **Further information:** 163 **Contact in USA:** 164 165

Inovatools USA LLC

- 10227 White Rd. 166
- Linden, Michigan 48451 167
- USA 168

Managing Director 169

- Mr. Douglas Kline 170
- Phone: +1 8104448745 171
- E-Mail: d.kline@inovatools.eu 172
- www.inovatools.eu 173

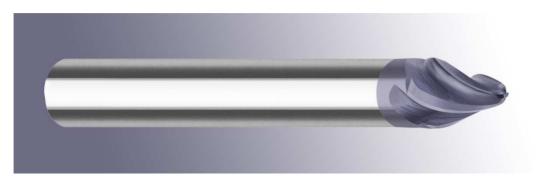
Contact in Germany: 174



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175	Inovatools Eckerle & Ertel GmbH
176	
177	Im Hüttental 3
178	85125 Kinding-Haunstetten
179	Germany
180	Managing Director
181	Georg Eckerle
182	Ditmar Ertel
183	Memo Ildirar
184	Phone: +49 8467 8400-0
185	Fax: +49 8467796
186	E-Mail: info@inovatools.eu
187	www.inovatools.eu
188	Notes for the editor:
189	For text and photo data, please
190	contact KSKOMM,
191	Phone: +49 2623 900780,
192	E-Mail: ks@kskomm.de.

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The new CSC (Curve Segment Cutting) CurveMax milling cutters from tool manufacturer Inovatools.



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The FightMax INOX VHM-HPC roughing and finishing milling cutter.



The Primus VHM-HPC aluminum roughing end mill with internal cooling and multi-turning technology.

Photo: Inovatools Eckerle & Ertel GmbH