

## Press Release

**H1** 2nd round: Inovatools expands successful mill series

**H2** **“FightMax” INOX Excellently Prepared  
for the “VA Infight”**

**H3** **Roughing and finishing operations with a single tool**

1 **le** With the “FightMax” mill series, the tool manufacturer Inovatools is sending a winner into the ring for machining steel materials. The tool specialists have once again hit the bull’s eye with the new VHM-HPC roughing/finishing milling cutter “FightMax” INOX. The special geometry and chip clearance as well as the defined cutting edge preparation in combination with the microgeometry as well as high-performance coating prepare the new milling cutter optimally for meeting the special cutting requirements of this versatile material with the right tactics.

21 **te** Nirosta, chromium steel, VA steel, rust-free steel, nickel-chromium steel – INOX has many names in the cutting world. And just as the names for this material group are hugely diverse, so too are the specific characteristics depending on the chromium, nickel, titanium and molybdenum share. On the one hand, this defines the area of application, e.g. in the foodstuffs or chemi-

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34 cal industry, etc.; on the other  
35 hand, these characteristics  
36 make cutting complex and diffi-  
37 cult.

38 “Successful cutting of all mate-  
39 rials covered by the superordi-  
40 nate term INOX is a special  
41 discipline,” says Douglas Kline,  
42 Managing Director at Inovatools  
43 USA LLC. “The tool basically  
44 has to fight with the edge zone  
45 hardening and the material’s  
46 high level of toughness. Since  
47 the materials are poor thermal  
48 conductors, rapid chip clear-  
49 ance is particularly important. In  
50 addition, the tool must have  
51 been designed in such a way  
52 that the chips that tend to bond  
53 and stick can be discharged  
54 reliably. What is therefore re-  
55 quired are tools that have been  
56 precisely tuned to meet the  
57 requirements of INOX machin-  
58 ing.”

59 In the “FightMax” INOX,  
60 Inovatools uses a balance mix-  
61 ing ratio of special ultrafine  
62 grain carbide. The four-edged  
63 HPC power package has an  
64 unevenly split and an unevenly  
65 twisted geometry with highly  
66 polished chip space. This gives  
67 the tool the necessary perfor-  
68 mance, ensures quiet, vibra-  
69 tion-free concentricity, and  
70 guarantees quick and reliable  
71 chip removal. This is supported  
72 by the smooth high-  
73 performance coating DUOCON,  
74 which also gives the “FightMax”  
75 INOX the necessary stability in  
76 the fight. The VHM-HPC rough-  
77 ing/finishing milling cutter is  
78 available in short and long ver-  
79 sions with Ø 6.00 mm to 20.00  
80 mm.

81 Douglas Kline: "The new milling  
82 cutter is particularly resilient  
83 thanks to our specific  
84 microgeometry for INOX ma-  
85 chining. In addition, the defined  
86 cutting edge rounding gives the  
87 'FightMax' INOX extreme edge  
88 stability when HPC milling. This  
89 makes it suitable for the special  
90 cutting requirements and also  
91 guarantees very long service  
92 lives, even with high feed rates  
93 and cutting speeds."

94 In practice, the rough-  
95 ing/finishing milling cutter  
96 emerges as a winner, e.g. in  
97 machining the austenitic, acid-  
98 resistant 18/10 Cr-Ni steel  
99 1.4301 (X5CrNi18-10). Accord-  
100 ing to Inovatools, the  
101 "FightMax" delivers an up to  
102 41% longer service life in the  
103 wear test compared to a com-  
104 parable tool from the market  
105 (cutting data:  $v_c = 91$  m/min,  $v_f =$   
106 426 mm/min,  $a_e = 11$  mm,  $a_p =$   
107 12 mm) with very good surface  
108 quality.

109 Douglas Kline: "The 'FightMax'  
110 INOX has been specially opti-  
111 mized in line with the unique  
112 cutting conditions of rust-free  
113 materials. Thanks to its design  
114 advantages, it is suitable as a  
115 roughing and finishing milling  
116 cutter depending on the cutting  
117 parameters. Our technical con-  
118 sultants will be happy to give  
119 tips on selecting the right tool  
120 depending on the INOX materi-  
121 al group and on setting the  
122 specified operating values.  
123 Naturally, it is also possible to  
124 identify the right tool for a spe-  
125 cific cutting application with our  
126 cutting data computer INOCUT,  
127 for example. This app is availa-  
128 ble at [www.schnittdaten.eu](http://www.schnittdaten.eu) and

129 www.inovatools.eu. It works via  
130 the specific recommendation of  
131 cutting values depending on the  
132 working cross-section, material  
133 and tool.”

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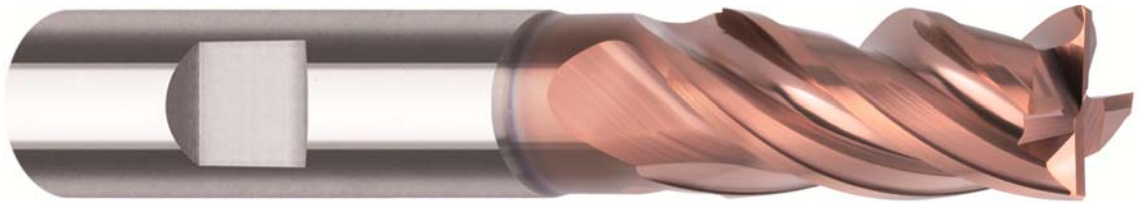
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***With the “FightMax” and  
“FightMax INOX” mill series,  
the tool manufacturer  
Inovatools is sending a win-  
ner into the ring for machin-  
ing steel materials.***

**InovaTools**® **INOCUT – Cutting data**  
GERMAN TOOLS GROUP

Technology part no.	Material	Tool	Details	Cutting values	Cutting sizes / Efficiency
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172 ***It is possible to identify the***  
 173 ***right tool for a specific cut-***  
 174 ***ting application with the***  
 175 ***Inovatools cutting data com-***  
 176 ***puter INOCUT, for example.***

177 *Photos: Inovatools Eckerle & Ertel*  
 178 *GmbH*