

Press Release

H1 Hommel+Keller Präzisionswerkzeuge at EMO

**H2 Quicker and more effective – experience
a new form of marking and knurling**

H3 A well-rounded line-up ranging from a specialist presentation to a raffle

1 **le** Knurling, marking, diamond
2 burnishing, gear cutting – as
3 different as they may be, all
4 tools from Hommel+Keller
5 Präzisionswerkzeuge GmbH
6 provide impressive flexibility,
7 precision and cost-
8 effectiveness. The company,
9 based in Aldingen in Ger-
10 many, will be using the inter-
11 national industry platform
12 provided by EMO to present
13 its innovative technologies in
14 hall 4, stand D24. New devel-
15 opments in knurling and
16 diamond burnishing tools,
17 interesting application exam-
18 ples, a specialist presenta-
19 tion on marking technology
20 as well as a raffle are just a
21 few highlights of what Hom-
22 mel+Keller has in store for
23 visitors to the trade fair.

24 **te** “At EMO, we want not only to
25 present our customers and visi-
26 tors with the latest develop-
27 ments, but to inspire them. In

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28 addition to our tools, we will be
29 showcasing examples of appli-
30 cations that demonstrate the
31 machining possibilities available
32 – such as our QUICK F711 and
33 F711-IK knurling tools, which
34 we have optimised for series
35 production. There will be some-
36 thing for those interested in our
37 marking technology, too,” prom-
38 ised Adrian Sunderer, product
39 manager at Hommel+Keller
40 Präzisionswerkzeuge GmbH.

41 **Knurling tool optimised**
42 **for high volume production**

43 The QUICK F711 form knurling
44 tool is the all-rounder tool from
45 Hommel+Keller and enables a
46 wide range of applications
47 thanks to its maximum stability
48 and flexibility. The new internal
49 cooling and quick clamping
50 systems make the tool particu-
51 larly suited to use in high vol-
52 ume production machining. The
53 careful orientation of the cool-
54 ing system towards the knurling
55 wheels reduces wheel wear
56 and therefore set-up times. The
57 internal cooling system also
58 takes up less space in the ma-
59 chine than an external cooling
60 system. The new quick clamp-
61 ing system ensures easy, quick
62 and safe knurling wheel
63 changes thanks to fewer oper-
64 ating steps and the way in
65 which screws to be loosened
66 are secured such that they
67 cannot fall into the machine.

68 “In our first application example,
69 we demonstrate how flexibly
70 the F711 and F711-IK tools can
71 be used. Not only do they allow
72 all profiles, but moving the Y-

73 axis enables two different pro-
74 files to be applied to a single
75 workpiece in one work proc-
76 ess,” explained Adrian Sun-
77 derer. The bilateral mounting of
78 the knurling wheels ensures
79 maximum stability.

80 **zeus burnishing tools:**
81 **double the tool life**

82 Another highlight is the newly
83 developed holder as well as the
84 optimisation of the diamond tip
85 in the zeus burnishing tools.
86 This means that a tip can be
87 used for twice as long – at a
88 consistently high surface quality
89 of $R_z < 1 \mu\text{m}$. How does that
90 work? The diamond cone can
91 now be optimally used in eight
92 different positions.

93 **Marking really**
94 **can be this fast**

95 Complete documentation is
96 essential for quality assurance.
97 However, many types of mark-
98 ing, including laser marking, are
99 expensive. With the flexible and
100 precise zeus marking tools,
101 marking is directly integrated
102 into the machining process,
103 eliminating additional costs for
104 set-up, transit and idle times.
105 Anyone who wants find out
106 more about the innovative
107 marking technology will have
108 the opportunity not only when
109 visiting the stand at EMO but
110 also at the VDMA Forum at
111 10:10 on Thursday 19 Septem-
112 ber. Here, Adrian Sunderer will
113 deliver a presentation entitled
114 ‘Fast – faster – the fastest:
115 marking within one second’
116 about machine marking as part

117 of a machining process. During
118 the presentation, he will use an
119 example of an application that
120 will also be on show at the
121 stand to illustrate the applica-
122 tions of the zeus marking tools,
123 explain the financial benefits of
124 marking integrated within work
125 processes and demonstrate the
126 flexibility allowed by the modu-
127 lar system.

128 “We will be showcasing what
129 our marking tools can do with
130 our second application exam-
131 ple: socket wrench inserts from
132 tool manufacturer GEDORE.
133 For marking, we were faced
134 with a real challenge, as
135 GEDORE required unusually
136 deep embossing of 0.3 mm. On
137 top of this was the very hard
138 material and a wide range of
139 different characters (logos,
140 numbers, small and large letter-
141 ing) as well as multi-line mark-
142 ing,” said Peter Hippler, appli-
143 cation engineer at Hom-
144 mel+Keller Präzisionswerk-
145 zeuge GmbH. “Using our zeus
146 432 marking tool featuring
147 spring return segments, we
148 were able to meet the require-
149 ments. We reached the em-
150 bossing depth thanks to a
151 steeper profile angle of lettering
152 segments, from 90° to 60° in
153 some instances. The zeus
154 RD2-141 tool is used for plunge
155 knurling (knurling profile on
156 workpiece – RGE 45°) at the
157 upper end.”

158 **Raffle for visitors**
159 **to the stand**

160 Hommel+Keller is providing an
161 additional incentive to pay a
162 visit to the stand in the form of
163 a raffle. It will be entering all
164 visitors into a draw to win three
165 GEDORE tool kits, in keeping
166 with the application used as an
167 example: a GEDORE 1/2"
168 socket wrench kit (23-piece), a
169 GEDORE motor vehicle tool kit
170 in a bag (29-piece) and a
171 GEDORE DIY tool kit in a bag
172 (9-piece).

173 **Further information:**

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185 **Notes for the editor:**

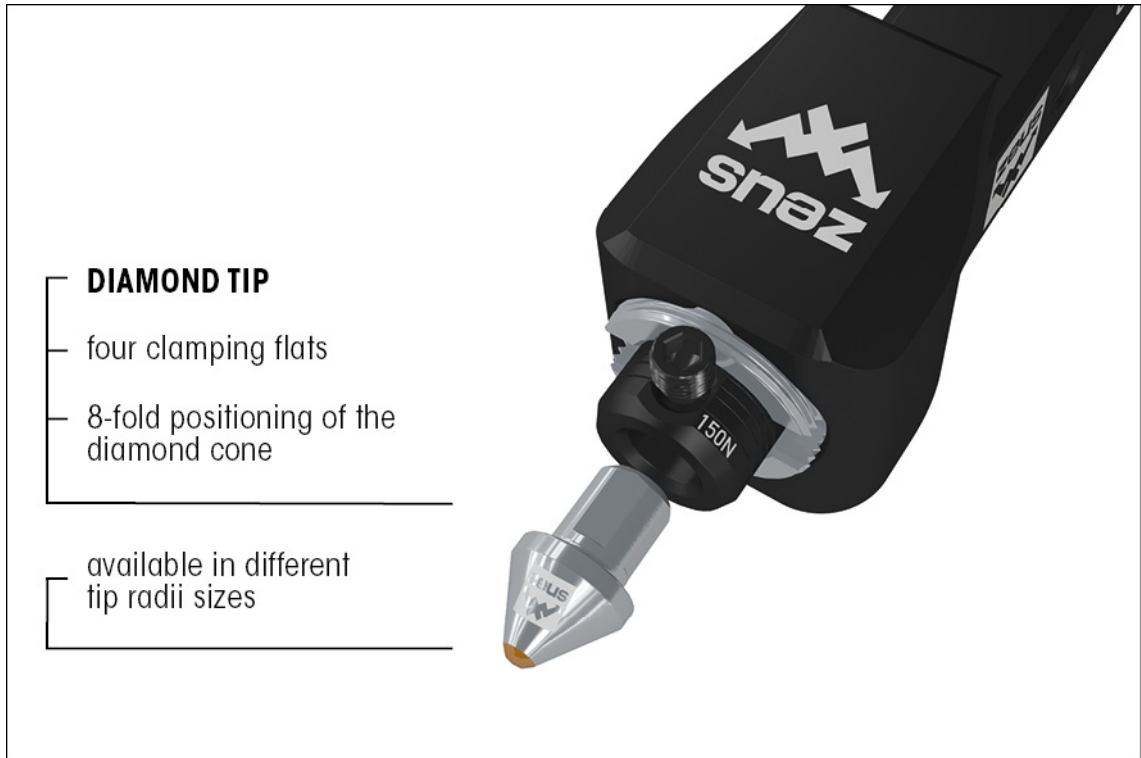
186 For text and photo data, please
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190

191 ***Photo 1: The QUICK F711-IK***
192 ***knurling tool has been opti-***
193 ***mised for high volume pro-***
194 ***duction with precise internal***
195 ***cooling and a quick clamping***
196 ***system.***



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Photo 2: The newly developed holder for the diamond tip in zeus burnishing tools doubles the tool life.



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203 ***Photo 3: GEDORE uses the***
204 ***zeus 432 marking tool featur-***
205 ***ing spring return segments to***
206 ***mark its socket wrench in-***
207 ***serts.***



208

209 ***Photo 4: Hommel+Keller***
210 ***Präzisionswerkzeuge GmbH***
211 ***will be entering all visitors to***
212 ***its stand into a draw to win***
213 ***three GEDORE tool kits – in***
214 ***keeping with the application***
215 ***used as an example.***

216 *Photos: Hommel+Keller*
217 *Präzisionswerkzeuge GmbH*