

# PRODUCT OVERVIEW



# THE RIGHT TOOL. AT ALL TIMES.

Welcome to Hofmann & Vratny. As leading manufacturer of solid carbide tools, we enable companies throughout the world to manufacture their products.

**Every day**, our strong team works on our collective goal of producing the best tools in the world. Companies from the medical industry, semiconductor industry, machine and plant construction, aviation, aerospace engineering and, not least, the automotive industry have been using our milling cutters for decades now. Quality – Made in Bavaria.

The success of our company is built on innovation, a culture of cooperation, open interaction with high respect and many years of successful and trustful collaboration with our business partners. You can always count on us, our tools and our irrepressible drive to shape the future of the industry together. To us, that means shaping tomorrow.

 Andreas Vratny
  Zdenek Vratny
  Marius Heinemann-Grüder

**49**  
YEARS OF EXPERIENCE

**2 Mio.**  
TOOLS PRODUCED EVERY YEAR

## MILLING CUTTERS



**MADE IN BAVARIA**

PROVEN QUALITY

## DRILLS



**MADE IN CZECHIA**

PROVEN QUALITY

# NUMBERING SYSTEM

## DISTINGUISHING FEATURES

### PRODUCT LINE

- BC Basic
- EX Expert

### TOOL TYPE

- D Drilling
- M Milling
- T Threading
- R Reaming

### TOOL VERSION

- M01 End mill cutter | PERFORMMAKER
- M02 Roughing cutter | SLOTMAKER
- M03 Trochoidal cutter | CHIPMAKER
- M04 Finishing cutter | MIRRORMAKER
- M05 Single flute cutter | BALANCEMAKER
- M06 Torus cutter | FORMMAKER
- M07 Face torus cutter | BLADEMAKER
- M08 Full radius cutter | ROWMAKER
- M09 Deburring cutter | CHAMFMAKER
- M10 Forward and backward deburring cutter | FB CHAMFMAKER
- M11 Corner rounding cutter | ROUNDMAKER
- M12 Forward and backward corner rounding cutter | FB ROUNDMAKER
- M13 Engraving cutter | TEXTMAKER
- M14 Conical cutter | SLOPEMAKER
- M15 Micro end mill cutter | PERFORMMAKER MICRO
- M16 Micro torus cutter | FORMMAKER MICRO
- M17 Micro full radius cutter | ROWMAKER MICRO
- M26 Ball cutter | SMOOTHMAKER
- M27 Chamfer cutter | BEVELMAKER
- D01 Spiral drill | COREMAKER

**BC U 1 - M 01 - 0293**

### MAIN APPLICATION

- PK Steel & Cast Iron
- H Hardened Steel
- M Stainless Steel
- O Graphite, CRP/GRP
- T Titanium
- S Superalloy
- N NF Material
- U Universal

### VERSION

- 1 Version 1.0
- 2 Version 2.0
- 3 Version 3.0

## OTHER DISTINGUISHING FEATURES

**BC U 1 - M 01 - XXXY - 12/0,5**

### XXX = PRODUCT IDENT

### Y = SHANK TYPE

- 3 = HA
- 4 = HB
- 5 = HE

### DIMENSION

- 3x10** Cutting diameter x length of undercut
- 12/0,5** Cutting diameter / corner radius
- 10** Diameter

## EXPLANATION APPLICATIONS

|                     |                         |                                     |                   |
|---------------------|-------------------------|-------------------------------------|-------------------|
| Multipass milling   | Trimming                | Deburring                           | Engraving         |
| Corner rounding     | Full slot milling       | Forward and backward deburring      | Helical immersion |
| Feed directions x,y | Feed directions x, y, z | Feed directions x, y, (z = ramping) | Drilling          |

# BCU1 SERIES

SOLID QUALITY FOR PRICE-SENSITIVE APPLICATIONS.

P K M N T S

(Page references are based on the latest print version: 2024)

## BCU1-M01 PERFORMMAKER | END MILL CUTTER

P.

Application

|   |    |
|---|----|
| <b>BCU1-M01-0103</b>   Ø3-20 BCU1 Performmaker Z3 1,5xD BUI | 38 |
| <b>BCU1-M01-0104</b>   Ø3-20 BCU1 Performmaker Z3 1,5xD BUI | 40 |
| <b>BCU1-M01-0113</b>   Ø2-20 BCU1 Performmaker Z3 2xD BUI   | 42 |
| <b>BCU1-M01-0114</b>   Ø2-20 BCU1 Performmaker Z3 2xD BUI   | 44 |
| <b>BCU1-M01-0123</b>   Ø4-20 BCU1 Performmaker Z3 3xD BUI   | 46 |
| <b>BCU1-M01-0124</b>   Ø4-20 BCU1 Performmaker Z3 3xD BUI   | 48 |
| <b>BCU1-M01-0203</b>   Ø3-20 BCU1 Performmaker Z4 1,5xD BUI | 50 |
| <b>BCU1-M01-0204</b>   Ø3-20 BCU1 Performmaker Z4 1,5xD BUI | 52 |

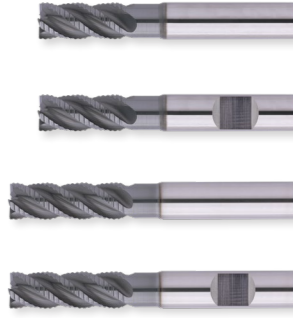


## BCU1-M02 SLOTMAKER | ROUGHING CUTTER

P.

Application

|  |    |
|--|----|
| <b>BCU1-M02-0103</b>   Ø4-20 BCU1 Slotmaker Z4 2xD BUI | 74 |
| <b>BCU1-M02-0104</b>   Ø4-20 BCU1 Slotmaker Z4 2xD BUI | 76 |
| <b>BCU1-M02-0113</b>   Ø4-20 BCU1 Slotmaker Z4 3xD BUI | 78 |
| <b>BCU1-M02-0114</b>   Ø4-20 BCU1 Slotmaker Z4 3xD BUI | 80 |



## BCU1-M03 CHIPMAKER | TROCHOIDAL CUTTER

Application

|  |    |
|--|----|
| <b>BCU1-M03-0123</b>   Ø6-16 BCU1 Chipmaker Z5 3,5xD BUI | 82 |
| <b>BCU1-M03-0124</b>   Ø6-16 BCU1 Chipmaker Z5 3,5xD BUI | 84 |



## BCU1-M04 MIRRORMAKER | FINISHING CUTTER

Application

|  |    |                 |
|--|----|-----------------|
| <b>NEW BCU1-M04-0123</b>   Ø6-16 BCU1 Mirrormaker Z5 3,5xD BUI | 86 | available 11/24 |
|--|----|-----------------|



## BCU1-M06 FORMMAKER | TORUS CUTTER

Application

|  |    |
|--|----|
| <b>BCU1-M06-0123</b>   Ø6-20 BCU1 Formmaker Z4 2xD BUI | 88 |
| <b>BCU1-M06-0124</b>   Ø6-20 BCU1 Formmaker Z4 2xD BUI | 92 |



## BCU1-M08 ROWMAKER | FULL RADIUS CUTTER

Application

|  |     |
|--|-----|
| <b>BCU1-M08-0053</b>   Ø0,5-12 BCU1 Rowmaker Z2 1xD short BUI  | 96  |
| <b>BCU1-M08-0063</b>   Ø0,5-12 BCU1 Rowmaker Z2 1xD long BUI   | 98  |
| <b>BCU1-M08-0073</b>   Ø1-12 BCU1 Rowmaker Z2 1xD overlong BUI | 100 |



**BCU1-M09 CHAMFMAKER** | DEBURRING CUTTER

p.

Application

**BCU1-M09-0103** | Ø1-16 BCU1 Chamfmaker Z3-4 60° BUI \_\_\_\_\_ 102



**BCU1-M09-0104** | Ø6-16 BCU1 Chamfmaker Z4 60° BUI \_\_\_\_\_ 104



**BCU1-M09-0153** | Ø1-16 BCU1 Chamfmaker Z3-4 90° BUI \_\_\_\_\_ 106



**BCU1-M09-0154** | Ø6-16 BCU1 Chamfmaker Z4 90° BUI \_\_\_\_\_ 108



**NEW BCU1-M09-0203** | Ø4-16 BCU1 Chamfmaker Z4 60° BUI \_\_\_\_\_ 110 available 09/24



**NEW BCU1-M09-0204** | Ø6-16 BCU1 Chamfmaker Z4 60° BUI \_\_\_\_\_ 112 available 09/24



**NEW BCU1-M09-0253** | Ø4-16 BCU1 Chamfmaker Z4 90° BUI \_\_\_\_\_ 114 available 09/24



**NEW BCU1-M09-0254** | Ø6-16 BCU1 Chamfmaker Z4 90° BUI \_\_\_\_\_ 116 available 09/24



**BCU1-M10 FB-CHAMFMAKER** | FORWARD AND BACKWARD DEBURRING CUTTER

Application

**BCU1-M10-0023** | Ø2-12 BCU1 FB-Chamfmaker Z4 90° BUI \_\_\_\_\_ 118



**BCU1-M10-0123** | Ø3-12 BCU1 FB-Chamfmaker Z4 90° BUI \_\_\_\_\_ 120



**BCU1-M11 ROUNDMAKER** | CORNER ROUNDING CUTTER

Application

**BCU1-M11-0023** | Ø3-10 BCU1 Roundmaker Z4 BUI \_\_\_\_\_ 122



**BCU1-M12 FB-ROUNDMAKER** | FORWARD AND BACKWARD CORNER ROUNDING CUTTER

Application

**BCU1-M12-0023** | Ø5-8,4 BCU1 FB-Roundmaker Z4 BUI \_\_\_\_\_ 124



**BCU1-M13 TEXTMAKER** | ENGRAVING CUTTER

Application

**NEW BCU1-M13-0123** | Ø3-6 BCU1 Textmaker Z2 BUI \_\_\_\_\_ 126 available 10/24



**BCU1-M26 SMOOTHMAKER** | BALL CUTTER

Application

**NEW BCU1-M26-0123** | Ø0,8-9,8 BCU1 Smoothmaker Z2 260° BUI \_\_\_\_\_ 128 available 12/24



**BCU1-M27 BEVELMAKER** | CHAMFER CUTTER

p.

Application

**NEW BCU1-M27-0123** | Ø3-12 BCU1 Bevelmaker Z2 60° BUI \_\_\_\_\_ 130 available 11/24



**NEW BCU1-M27-0143** | Ø1-12 BCU1 Bevelmaker Z2 90° BUI \_\_\_\_\_ 132 available 11/24



**BCU1-D01 COREMAKER** | SPIRAL DRILL

Application

**NEW BCU1-D01-0213** | Ø3-12 BCU1 Coremaker Z2 3xD IC BUI \_\_\_\_\_ 134 available 09/24



**NEW BCU1-D01-0214** | Ø3-12 BCU1 Coremaker Z2 3xD IC BUI \_\_\_\_\_ 140 available 09/24



**NEW BCU1-D01-0215** | Ø3-12 BCU1 Coremaker Z2 3xD IC BUI \_\_\_\_\_ 146 available 09/24



**NEW BCU1-D01-0223** | Ø2,5-14 BCU1 Coremaker Z2 5xD IC BUI \_\_\_\_\_ 152 available 10/24



**NEW BCU1-D01-0224** | Ø2,5-14 BCU1 Coremaker Z2 5xD IC BUI \_\_\_\_\_ 158 available 10/24



**NEW BCU1-D01-0225** | Ø2,5-14 BCU1 Coremaker Z2 5xD IC BUI \_\_\_\_\_ 164 available 10/24



**NEW BCU1-D01-0233** | Ø3-14 BCU1 Coremaker Z2 8xD IC BUI \_\_\_\_\_ 170 available 11/24



**NEW BCU1-D01-0234** | Ø3-14 BCU1 Coremaker Z2 8xD IC BUI \_\_\_\_\_ 176 available 11/24



**NEW BCU1-D01-0235** | Ø3-14 BCU1 Coremaker Z2 8xD IC BUI \_\_\_\_\_ 182 available 11/24



BCU1  
BROCHURE



# EXPK1 SERIES

EXPERTS FOR STEEL AND CAST IRON.

P K

(Page references are based on the latest print version: 2024)

## EXPK1-M01 PERFORMMAKER | END MILL CUTTER

P.

Application 

EXPK1-M01-0113 | Ø3-20 EXPK1 Performmaker Z4 1,5xD AFPX \_\_\_\_\_ 40



EXPK1-M01-0114 | Ø3-20 EXPK1 Performmaker Z4 1,5xD AFPX \_\_\_\_\_ 42



EXPK1-M01-0123 | Ø2-20 EXPK1 Performmaker Z4 2xD AFPX \_\_\_\_\_ 44



EXPK1-M01-0124 | Ø2-20 EXPK1 Performmaker Z4 2xD AFPX \_\_\_\_\_ 46



EXPK1-M01-0173 | Ø3-20 EXPK1 Performmaker Z4 1,5xD AFPX \_\_\_\_\_ 48



EXPK1-M01-0174 | Ø3-20 EXPK1 Performmaker Z4 1,5xD AFPX \_\_\_\_\_ 50



NEW EXPK1-M01-0183 | Ø2-25 EXPK1 Performmaker Z4 2xD AFPX \_\_\_\_\_ 52 Ø7, 14, 18, 25 available 02/25



NEW EXPK1-M01-0184 | Ø2-25 EXPK1 Performmaker Z4 2xD AFPX \_\_\_\_\_ 56 Ø7, 14, 18, 25 available 02/25



EXPK1-M01-0223 | Ø6-20 EXPK1 Performmaker Z5 2xD AFPX \_\_\_\_\_ 60



EXPK1-M01-0224 | Ø6-20 EXPK1 Performmaker Z5 2xD AFPX \_\_\_\_\_ 62



NEW EXPK1-M01-0323 | Ø3-20 EXPK1 Performmaker Z4 3xD AFPX \_\_\_\_\_ 64 available 11/24



NEW EXPK1-M01-0324 | Ø3-20 EXPK1 Performmaker Z4 3xD AFPX \_\_\_\_\_ 66 available 11/24



NEW EXPK1-M01-0423 | Ø6-20 EXPK1 Performmaker Z4 2xD overlong AFPX \_\_\_\_\_ 68 available 01/25



NEW EXPK1-M01-0424 | Ø6-20 EXPK1 Performmaker Z4 2xD overlong AFPX \_\_\_\_\_ 70 available 01/25



## EXPK1-M02 SLOTMAKER | ROUGHING CUTTER

P.

Application 

EXPK1-M02-0123 | Ø4-20 EXPK1 Slotmaker Z5 2xD AFPX \_\_\_\_\_ 72



EXPK1-M02-0124 | Ø4-20 EXPK1 Slotmaker Z5 2xD AFPX \_\_\_\_\_ 74



EXPK1-M02-0153 | Ø4-20 EXPK1 Slotmaker Z5 3xD AFPX \_\_\_\_\_ 76



EXPK1-M02-0154 | Ø4-20 EXPK1 Slotmaker Z5 3xD AFPX \_\_\_\_\_ 78



EXPK1-M02-0223 | Ø4-20 EXPK1 Slotmaker Z5 2xD IC AFPX \_\_\_\_\_ 80



EXPK1-M02-0224 | Ø4-20 EXPK1 Slotmaker Z5 2xD IC AFPX \_\_\_\_\_ 82



EXPK1-M02-0253 | Ø4-20 EXPK1 Slotmaker Z5 3xD IC AFPX \_\_\_\_\_ 84



EXPK1-M02-0254 | Ø4-20 EXPK1 Slotmaker Z5 3xD IC AFPX \_\_\_\_\_ 86



NEW EXPK1-M02-0323 | Ø6-20 EXPK1 Slotmaker Z5 4xD AFPX \_\_\_\_\_ 88 available 12/24



NEW EXPK1-M02-0324 | Ø6-20 EXPK1 Slotmaker Z5 4xD AFPX \_\_\_\_\_ 90 available 12/24



NEW EXPK1-M02-0623 | Ø6-20 EXPK1 Slotmaker Z5 2xD overlong AFPX \_\_\_\_\_ 92 available 12/24



NEW EXPK1-M02-0624 | Ø6-20 EXPK1 Slotmaker Z5 2xD overlong AFPX \_\_\_\_\_ 94 available 12/24



**EXP1-M03 CHIPMAKER** | TROCHOIDAL CUTTER

p.

Application

**EXP1-M03-0103** | Ø6-20 EXP1 Chipmaker Z5 2xD AFPX \_\_\_\_\_ 96



**EXP1-M03-0104** | Ø6-20 EXP1 Chipmaker Z5 2xD AFPX \_\_\_\_\_ 100



**NEW EXP1-M03-0113** | Ø6-25 EXP1 Chipmaker Z5 3xD AFPX \_\_\_\_\_ 104

Ø25 available 02/25



**NEW EXP1-M03-0114** | Ø6-25 EXP1 Chipmaker Z5 3xD AFPX \_\_\_\_\_ 106

Ø25 available 02/25



**EXP1-M03-0123** | Ø6-20 EXP1 Chipmaker Z5 4xD AFPX \_\_\_\_\_ 108



**EXP1-M03-0124** | Ø6-20 EXP1 Chipmaker Z5 4xD AFPX \_\_\_\_\_ 112



**NEW EXP1-M03-0133** | Ø6-25 EXP1 Chipmaker Z5 5xD AFPX \_\_\_\_\_ 116

Ø6, 25 available 02/25



**NEW EXP1-M03-0134** | Ø6-25 EXP1 Chipmaker Z5 5xD AFPX \_\_\_\_\_ 118

Ø6, 25 available 02/25



**EXP1-M03-0203** | Ø6-20 EXP1 Chipmaker Z7 2xD AFPX \_\_\_\_\_ 120



**EXP1-M03-0204** | Ø6-20 EXP1 Chipmaker Z7 2xD AFPX \_\_\_\_\_ 124



**EXP1-M03-0213** | Ø6-20 EXP1 Chipmaker Z7 3xD AFPX \_\_\_\_\_ 128



**EXP1-M03-0214** | Ø6-20 EXP1 Chipmaker Z7 3xD AFPX \_\_\_\_\_ 130



**EXP1-M03-0223** | Ø6-20 EXP1 Chipmaker Z7 4xD AFPX \_\_\_\_\_ 132



**EXP1-M03-0224** | Ø6-20 EXP1 Chipmaker Z7 4xD AFPX \_\_\_\_\_ 136



**EXP1-M03-0233** | Ø8-20 EXP1 Chipmaker Z7 5xD AFPX \_\_\_\_\_ 140



**EXP1-M03-0234** | Ø8-20 EXP1 Chipmaker Z7 5xD AFPX \_\_\_\_\_ 142

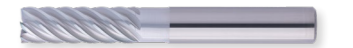


**EXP1-M04 MIRRORMAKER** | FINISHING CUTTER

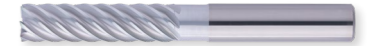
p.

Application

**EXP1-M04-0033** | Ø6-20 EXP1 Mirrmaker Z7 3xD AFPX \_\_\_\_\_ 144



**EXP1-M04-0043** | Ø6-20 EXP1 Mirrmaker Z7 4xD AFPX \_\_\_\_\_ 148



**EXP1-M04-0053** | Ø6-20 EXP1 Mirrmaker Z7 5xD AFPX \_\_\_\_\_ 150



**EXP1-M06 FORMMAKER** | TORUS CUTTER

Application

**EXP1-M06-0103** | Ø1-20 EXP1 Formmaker Z4 1xD AFPX \_\_\_\_\_ 154



**EXP1-M06-0113** | Ø1-20 EXP1 Formmaker Z4 1xD long AFPX \_\_\_\_\_ 158



**EXP1-M06-0123** | Ø6-20 EXP1 Formmaker Z4 2xD AFPX \_\_\_\_\_ 162



**EXP1-M06-0124** | Ø6-20 EXP1 Formmaker Z4 2xD AFPX \_\_\_\_\_ 166



**EXP1-M06-0223** | Ø6-20 EXP1 Formmaker Z5 2xD AFPX \_\_\_\_\_ 170



**EXP1-M06-0224** | Ø6-20 EXP1 Formmaker Z5 2xD AFPX \_\_\_\_\_ 172



**EXP1-M07 BLADEMAKER** | FACE TORUS CUTTER

Application

**EXP1-M07-0023** | Ø2-16 EXP1 Blademaker Z2-5 0,5xD short AFPX \_\_\_\_\_ 174



**EXP1-M07-0043** | Ø2-16 EXP1 Blademaker Z2-5 0,5xD long AFPX \_\_\_\_\_ 176



**EXPK1-M08 ROWMAKER** | FULL RADIUS CUTTER **P.**

|   |       |     |
|---|-------|-----|
| <b>EXPK1-M08-0003</b>   Ø0,5-12 EXPK1 Rowmaker Z2 1xD short AFPX  | _____ | 178 |
| <b>EXPK1-M08-0013</b>   Ø0,5-12 EXPK1 Rowmaker Z2 1xD long AFPX   | _____ | 180 |
| <b>EXPK1-M08-0023</b>   Ø1-12 EXPK1 Rowmaker Z2 1xD overlong AFPX | _____ | 182 |
| <b>EXPK1-M08-0103</b>   Ø0,5-12 EXPK1 Rowmaker Z2 1xD short AFPX  | _____ | 184 |
| <b>EXPK1-M08-0123</b>   Ø1-12 EXPK1 Rowmaker Z2 1xD long AFPX     | _____ | 186 |
| <b>EXPK1-M08-0203</b>   Ø3-16 EXPK1 Rowmaker Z4 1xD short AFPX    | _____ | 188 |
| <b>EXPK1-M08-0223</b>   Ø3-16 EXPK1 Rowmaker Z4 1xD long AFPX     | _____ | 190 |

Application 



EXPK1  
BROCHURE



**STILL CAN'T FIND A SUITABLE MILLING CUTTER?**

**No problem** - simply customize an existing tool. Using our configurator for special milling cutters, you can customize existing tools to your needs in an instant or create your own tools based on predefined types.

WE WILL RESPOND TO ALL REQUESTS SUBMITTED VIA THE CONFIGURATOR WITHIN ONE WORKING DAY AT THE LATEST



# EXM1 SERIES

EXPERTS FOR STAINLESS STEEL.

M

(Page references are based on the latest print version: 2024)

## EXM1-M01 PERFORMMAKER | END MILL CUTTER

P-

Application



|     |               |  |    |  |  |
|-----|---------------|--|----|--|--|
| NEW | EXM1-M01-0213 | Ø0,5-20 EXM1 Performmaker Z4 1,5xD ANNX      | 34 | Ø2-20 available 09/24<br>Ø0,5-1,5 available 02/25                  |  |
| NEW | EXM1-M01-0214 | Ø3-20 EXM1 Performmaker Z4 1,5xD ANNX        | 36 | available 09/24  |  |
| NEW | EXM1-M01-0223 | Ø0,5-25 EXM1 Performmaker Z4 2xD ANNX        | 38 | Ø2-20 available 09/24<br>Ø0,5-1,5 & Ø7, 14, 18, 25 available 02/25 |  |
| NEW | EXM1-M01-0224 | Ø2-25 EXM1 Performmaker Z4 2xD ANNX          | 42 | Ø2-20 available 09/24<br>Ø7, 14, 18, 25 available 02/25            |  |
| NEW | EXM1-M01-0323 | Ø0,5-20 EXM1 Performmaker Z4 3xD ANNX        | 44 | available 02/25  |  |
| NEW | EXM1-M01-0324 | Ø3-20 EXM1 Performmaker Z4 3xD ANNX          | 46 | available 02/25  |  |
| NEW | EXM1-M01-0423 | Ø6-20 EXM1 Performmaker Z4 2xD overlong ANNX | 48 | available 02/25  |  |
| NEW | EXM1-M01-0424 | Ø6-20 EXM1 Performmaker Z4 2xD overlong ANNX | 50 | available 02/25  |  |
| NEW | EXM1-M01-0523 | Ø2-25 EXM1 Performmaker Z4 2xD ANNX          | 52 | Ø2-20 available 09/24<br>Ø7, 14, 18, 25 available 02/25            |  |
| NEW | EXM1-M01-0524 | Ø2-25 EXM1 Performmaker Z4 2xD ANNX          | 54 | Ø2-20 available 09/24<br>Ø7, 14, 18, 25 available 02/25            |  |

## EXM1-M02 SLOTMAKER | ROUGHING CUTTER

Application



|     |               |   |    |                 |  |
|-----|---------------|---|----|-----------------|--|
|     | EXM1-M02-0123 | Ø4-20 EXM1 Slotmaker Z4 2xD ANNX          | 56 |                 |  |
|     | EXM1-M02-0124 | Ø4-20 EXM1 Slotmaker Z4 2xD ANNX          | 58 |                 |  |
|     | EXM1-M02-0153 | Ø4-20 EXM1 Slotmaker Z4 3xD ANNX          | 60 |                 |  |
|     | EXM1-M02-0154 | Ø4-20 EXM1 Slotmaker Z4 3xD ANNX          | 62 |                 |  |
| NEW | EXM1-M02-0323 | Ø6-20 EXM1 Slotmaker Z4 4xD ANNX          | 64 | available 12/24 |  |
| NEW | EXM1-M02-0324 | Ø6-20 EXM1 Slotmaker Z4 4xD ANNX          | 66 | available 12/24 |  |
| NEW | EXM1-M02-0623 | Ø6-20 EXM1 Slotmaker Z4 2xD overlong ANNX | 68 | available 02/25 |  |
| NEW | EXM1-M02-0624 | Ø6-20 EXM1 Slotmaker Z4 2xD overlong ANNX | 70 | available 02/25 |  |

## EXM1-M03 CHIPMAKER | TROCHOIDAL CUTTER

P-

Application



|     |               |                                  |    |                 |  |
|-----|---------------|----------------------------------|----|-----------------|--|
|     | EXM1-M03-0103 | Ø6-20 EXM1 Chipmaker Z6 2xD ANNX | 72 |                 |  |
|     | EXM1-M03-0104 | Ø6-20 EXM1 Chipmaker Z6 2xD ANNX | 76 |                 |  |
|     | EXM1-M03-0113 | Ø6-20 EXM1 Chipmaker Z6 3xD ANNX | 80 |                 |  |
|     | EXM1-M03-0114 | Ø6-20 EXM1 Chipmaker Z6 3xD ANNX | 82 |                 |  |
|     | EXM1-M03-0123 | Ø6-20 EXM1 Chipmaker Z6 4xD ANNX | 84 |                 |  |
|     | EXM1-M03-0124 | Ø6-20 EXM1 Chipmaker Z6 4xD ANNX | 88 |                 |  |
| NEW | EXM1-M03-0133 | Ø6-20 EXM1 Chipmaker Z6 5xD ANNX | 92 | available 12/24 |  |
| NEW | EXM1-M03-0134 | Ø6-20 EXM1 Chipmaker Z6 5xD ANNX | 94 | available 12/24 |  |

DO YOU HAVE BLUNT MILLING CUTTERS THAT URGENTLY NEED REGRINDING?



DISCOVER OUR H&V REGRINDING SERVICE AND HAVE YOUR TOOLS RECONDITIONED TO THEIR ORIGINAL STATE!





**EXM1-M04 MIRRORMAKER** | FINISHING CUTTER

P.

Application

EXM1-M04-0033 | Ø6-20 EXM1 Mirrmaker Z7 3xD ANNX \_\_\_\_\_ 96



EXM1-M04-0043 | Ø6-20 EXM1 Mirrmaker Z7 4xD ANNX \_\_\_\_\_ 98



NEW EXM1-M04-0053 | Ø6-20 EXM1 Mirrmaker Z7 5xD ANNX \_\_\_\_\_ 100

available  
12/24



**EXM1-M06 FORMMAKER** | TORUS CUTTER

Application

NEW EXM1-M06-0053 | Ø1-20 EXM1 Formmaker Z4 2xD ANNX \_\_\_\_\_ 102

available  
02/25



NEW EXM1-M06-0054 | Ø2-20 EXM1 Formmaker Z4 2xD ANNX \_\_\_\_\_ 106

available  
02/25



EXM1-M06-0123 | Ø6-20 EXM1 Formmaker Z5 2xD ANNX \_\_\_\_\_ 110



EXM1-M06-0124 | Ø6-20 EXM1 Formmaker Z5 2xD ANNX \_\_\_\_\_ 114



**EXM1-M08 ROWMAKER** | FULL RADIUS CUTTER

Application

EXM1-M08-0003 | Ø0,5-12 EXM1 Rowmaker Z2 1xD short ANNX \_\_\_\_\_ 118



EXM1-M08-0013 | Ø0,5-12 EXM1 Rowmaker Z2 1xD long ANNX \_\_\_\_\_ 120



EXM1-M08-0203 | Ø3-16 EXM1 Rowmaker Z4 1xD short ANNX \_\_\_\_\_ 122



EXM1-M08-0223 | Ø3-16 EXM1 Rowmaker Z4 1xD long ANNX \_\_\_\_\_ 124



**EXM1-M26 SMOOTHMAKER** | BALL CUTTER

Application

NEW EXM1-M26-0123 | Ø0,8-9,8 EXM1 Smoothmaker Z4 280° ANNX \_\_\_\_\_ 126

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EXM1  
BROCHURE



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# EXN1 SERIES

EXPERTS FOR NON-FERROUS MATERIALS.

(Page references are based on the latest print version: 2024)

N

## EXN1-M01 PERFORMMAKER | END MILL CUTTER

P.

Application

|   |    |
|---|----|
| <b>EXN1-M01-0013</b>   Ø1-20 EXN1 Performmaker Z2-3 ASR             | 36 |
| <b>EXN1-M01-0043</b>   Ø1-20 EXN1 Performmaker Z2 2xD ASR           | 38 |
| <b>EXN1-M01-0093</b>   Ø2-20 EXN1 Performmaker Z3 2xD ASR           | 40 |
| <b>EXN1-M01-0094</b>   Ø2-20 EXN1 Performmaker Z3 2xD ASR           | 42 |
| <b>EXN1-M01-0103</b>   Ø2-20 EXN1 Performmaker Z3 2xD ASR           | 44 |
| <b>EXN1-M01-0104</b>   Ø2-20 EXN1 Performmaker Z3 2xD ASR           | 46 |
| <b>EXN1-M01-0113</b>   Ø2-20 EXN1 Performmaker Z3 1,5xD long ASR    | 48 |
| <b>EXN1-M01-0114</b>   Ø2-20 EXN1 Performmaker Z3 1,5xD long ASR    | 50 |
| <b>EXN1-M01-0123</b>   Ø2-20 EXN1 Performmaker Z3 3xD ASR           | 52 |
| <b>EXN1-M01-0124</b>   Ø2-20 EXN1 Performmaker Z3 3xD ASR           | 54 |
| <b>EXN1-M01-0133</b>   Ø2-20 EXN1 Performmaker Z3 3xD ASR           | 56 |
| <b>EXN1-M01-0134</b>   Ø2-20 EXN1 Performmaker Z3 3xD ASR           | 58 |
| <b>EXN1-M01-0203</b>   Ø5-20 EXN1 Performmaker Z3 2xD IC ASR        | 60 |
| <b>EXN1-M01-0204</b>   Ø5-20 EXN1 Performmaker Z3 2xD IC ASR        | 62 |
| <b>EXN1-M01-0213</b>   Ø5-20 EXN1 Performmaker Z3 1,5xD long IC ASR | 64 |
| <b>EXN1-M01-0214</b>   Ø5-20 EXN1 Performmaker Z3 1,5xD long IC ASR | 66 |
| <b>NEW EXN1-M01-0293</b>   Ø2-25 EXN1 Performmaker Z4 2xD ASR       | 68 |
| <b>NEW EXN1-M01-0294</b>   Ø2-25 EXN1 Performmaker Z4 2xD ASR       | 72 |

Ø7, 14, 18, 25  
available 02/25

Ø7, 14, 18, 25  
available 02/25

## EXN1-M02 SLOTMAKER | ROUGHING CUTTER

P.

Application

|   |     |
|---|-----|
| <b>EXN1-M02-0023</b>   Ø4-20 EXN1 Slotmaker Z3 2xD ASR                | 76  |
| <b>EXN1-M02-0024</b>   Ø4-20 EXN1 Slotmaker Z3 2xD ASR                | 78  |
| <b>EXN1-M02-0053</b>   Ø4-20 EXN1 Slotmaker Z3 3xD ASR                | 80  |
| <b>EXN1-M02-0054</b>   Ø4-20 EXN1 Slotmaker Z3 3xD ASR                | 82  |
| <b>NEW EXN1-M02-0063</b>   Ø6-20 EXN1 Slotmaker Z4 4xD ASR            | 84  |
| <b>NEW EXN1-M02-0064</b>   Ø6-20 EXN1 Slotmaker Z4 4xD ASR            | 86  |
| <b>NEW EXN1-M02-0073</b>   Ø6-20 EXN1 Slotmaker Z4 5xD ASR            | 88  |
| <b>NEW EXN1-M02-0074</b>   Ø6-20 EXN1 Slotmaker Z4 5xD ASR            | 90  |
| <b>EXN1-M02-0123</b>   Ø4-20 EXN1 Slotmaker Z3 2xD IC ASR             | 92  |
| <b>EXN1-M02-0124</b>   Ø4-20 EXN1 Slotmaker Z3 2xD IC ASR             | 94  |
| <b>EXN1-M02-0163</b>   Ø4-20 EXN1 Slotmaker Z3 3xD IC ASR             | 96  |
| <b>EXN1-M02-0164</b>   Ø4-20 EXN1 Slotmaker Z3 3xD IC ASR             | 98  |
| <b>NEW EXN1-M02-0213</b>   Ø12-25 EXN1 Slotmaker Z4 2xD long IC ASR   | 100 |
| <b>NEW EXN1-M02-0214</b>   Ø12-25 EXN1 Slotmaker Z4 2xD long IC ASR   | 102 |
| <b>NEW EXN1-M02-0223</b>   Ø6-20 EXN1 Slotmaker Z3-4 2xD overlong ASR | 104 |
| <b>NEW EXN1-M02-0224</b>   Ø6-20 EXN1 Slotmaker Z3-4 2xD overlong ASR | 106 |

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**EXN1-M03 CHIPMAKER** | TROCHOIDAL CUTTER

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|--|-----|
| <b>EXN1-M03-0033</b>   Ø5-20 EXN1 Chipmaker Z4 3xD ASR       | 108 |
| <b>EXN1-M03-0034</b>   Ø5-20 EXN1 Chipmaker Z4 3xD ASR       | 110 |
| <b>EXN1-M03-0043</b>   Ø5-20 EXN1 Chipmaker Z4 4xD ASR       | 112 |
| <b>EXN1-M03-0044</b>   Ø5-20 EXN1 Chipmaker Z4 4xD ASR       | 114 |
| <b>EXN1-M03-0053</b>   Ø5-20 EXN1 Chipmaker Z4 5xD ASR       | 116 |
| <b>EXN1-M03-0054</b>   Ø5-20 EXN1 Chipmaker Z4 5xD ASR       | 118 |
| <b>EXN1-M03-0133</b>   Ø12-16 EXN1 Chipmaker Z4 3,5xD IC ASR | 120 |

Application



**EXN1-M04 MIRRORMAKER** | FINISHING CUTTER

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|--|-----|
| <b>EXN1-M04-0033</b>   Ø6-20 EXN1 Mirrmaker Z6 3xD ASR       | 122 |
| <b>EXN1-M04-0043</b>   Ø6-20 EXN1 Mirrmaker Z6 4xD ASR       | 124 |
| <b>EXN1-M04-0053</b>   Ø6-20 EXN1 Mirrmaker Z6 5xD ASR       | 126 |
| <b>EXN1-M04-0133</b>   Ø12-16 EXN1 Mirrmaker Z5 3,5xD IC ASR | 128 |

Application



**EXN1-M05 BALANCEMAKER** | SINGLE FLUTE CUTTER

|  |     |
|--|-----|
| <b>EXN1-M05-0023</b>   Ø1-12 EXN1 Balancemaker Z1 ASR      | 130 |
| <b>EXN1-M05-0053</b>   Ø1-12 EXN1 Balancemaker Z1 long ASR | 132 |

Application



**EXN1-M06 FORMMAKER** | TORUS CUTTER

|   |     |
|---|-----|
| <b>EXN1-M06-0003</b>   Ø5-20 EXN1 Formmaker Z3 2xD ASR        | 134 |
| <b>EXN1-M06-0013</b>   Ø5-20 EXN1 Formmaker Z3 1,5xD long ASR | 138 |
| <b>EXN1-M06-0103</b>   Ø6-20 EXN1 Formmaker Z2 2xD ASR        | 142 |
| <b>EXN1-M06-0213</b>   Ø6-20 EXN1 Formmaker Z4 3xD ASR        | 144 |

Application



**EXN1-M08 ROWMAKER** | FULL RADIUS CUTTER

|   |     |
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| <b>EXN1-M08-0003</b>   Ø0,5-12 EXN1 Rowmaker Z2 1xD short ASR | 148 |
| <b>EXN1-M08-0013</b>   Ø0,5-12 EXN1 Rowmaker Z2 1xD long ASR  | 150 |
| <b>EXN1-M08-0103</b>   Ø3-16 EXN1 Rowmaker Z4 2xD short ASR   | 152 |
| <b>EXN1-M08-0113</b>   Ø3-16 EXN1 Rowmaker Z4 2xD long ASR    | 154 |

Application



**EXN1-M15 PERFORMMAKER MICRO** | MICRO-END MILL CUTTER

|  |     |
|--|-----|
| <b>EXN1-M15-0003</b>   Ø0,2-2,5 EXN1 Performmaker Micro Z2 ASR | 156 |
|--|-----|

Application



**EXN1-M16 FORMMAKER MICRO** | MICRO-TORUS CUTTER

|   |     |
|---|-----|
| <b>EXN1-M16-0023</b>   Ø0,2-0,6 EXN1 Formmaker Micro Z2 R0,05 ASR | 162 |
| <b>EXN1-M16-0063</b>   Ø0,4-2 EXN1 Formmaker Micro Z2 R0,1 ASR    | 166 |
| <b>EXN1-M16-0103</b>   Ø0,8-3 EXN1 Formmaker Micro Z2 R0,2 ASR    | 172 |
| <b>EXN1-M16-0143</b>   Ø1-3 EXN1 Formmaker Micro Z2 R0,3 ASR      | 178 |
| <b>EXN1-M16-0183</b>   Ø1,5-3 EXN1 Formmaker Micro Z2 R0,5 ASR    | 182 |

Application



**EXN1-M17 ROWMAKER MICRO** | MICRO-FULL RADIUS CUTTER

|   |     |
|---|-----|
| <b>EXN1-M17-0003</b>   Ø0,1-3 EXN1 Rowmaker Micro Z2 ASR      | 186 |
| <b>EXN1-M17-0013</b>   Ø0,5-3 EXN1 Rowmaker Micro long Z2 ASR | 190 |

Application



# HARDENED STEEL

(Page references are based on the latest print version: 2024)

H

## PERFORMMAKER | END MILL CUTTER

- K201523** | Ø2-20 Performmaker Z4-10 short ADN \_\_\_\_\_ 12
- K201533** | Ø6-25 Performmaker Z6-10 long ADN \_\_\_\_\_ 14

## FORMMAKER | TORUS CUTTER

- K202223** | Ø1-20 Formmaker Z4 1xD ADN \_\_\_\_\_ 16
- K202233** | Ø1-20 Formmaker Z4 1xD long ADN \_\_\_\_\_ 20
- K202253** | Ø3-20 Formmaker Z4-6 1xD ADN \_\_\_\_\_ 24
- K202293** | Ø5-20 Formmaker Z6-10 short ADN \_\_\_\_\_ 28
- K202303** | Ø6-20 Formmaker Z6-10 long ADN \_\_\_\_\_ 30
- K202307** | Ø16-20 Formmaker Z8-10 overlong ADN \_\_\_\_\_ 32

## BLADEMAKER | FACE TORUS CUTTER

- K207013** | Ø2-16 Blademaker Z2-5 0,5xD short ADN \_\_\_\_\_ 34
- K207018** | Ø2-16 Blademaker Z2-5 0,5xD long ADN \_\_\_\_\_ 36

## ROWMAKER | FULL RADIUS CUTTER

- K203103** | Ø0,1-20 Rowmaker Z2 1xD short ADN \_\_\_\_\_ 38
- K203143** | Ø0,5-20 Rowmaker Z2 1,5xD long ADN \_\_\_\_\_ 42
- K203153** | Ø1-20 Rowmaker Z2 1xD long ADN \_\_\_\_\_ 46
- K203333** | Ø2-20 Rowmaker Z4 1xD short ADN \_\_\_\_\_ 48
- K203343** | Ø2-20 Rowmaker Z4 1xD long ADN \_\_\_\_\_ 50

Application



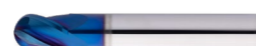
Application



Application



Application



## CHAMFMAKER | DEBURRING CUTTER

- K205153** | Ø3-12 Chamfmaker Z3-4 60° ADN \_\_\_\_\_ 52
- K205154** | Ø6-12 Chamfmaker Z4 60° ADN \_\_\_\_\_ 54
- K205163** | Ø3-12 Chamfmaker Z3-4 90° ADN \_\_\_\_\_ 56
- K205164** | Ø6-12 Chamfmaker Z4 90° ADN \_\_\_\_\_ 58

## ROUNDMAKER | CORNER ROUNDING CUTTER

- K204108** | Ø3-10 Roundmaker Z6 ADN \_\_\_\_\_ 60

## PERFORMMAKER MICRO | MICRO-END MILL CUTTER

- K201122** | Ø0,2-3 Performmaker Micro Z2 ADN \_\_\_\_\_ 62

## FORMMAKER MICRO | MICRO-TORUS CUTTER

- K202082** | Ø0,4-2 Formmaker Micro Z2 R0,1 ADN \_\_\_\_\_ 74
- K202092** | Ø0,8-2 Formmaker Micro Z2 R0,2 ADN \_\_\_\_\_ 80
- K202102** | Ø1-3 Formmaker Micro Z2 R0,3 ADN \_\_\_\_\_ 86
- K202112** | Ø1,5-3 Formmaker Micro Z2 R0,5 ADN \_\_\_\_\_ 92

## ROWMAKER MICRO | MICRO-FULL RADIUS CUTTER

- K203206** | Ø0,2-3 Rowmaker Micro Z2 ADN \_\_\_\_\_ 96
- K203212** | Ø0,3-3 Rowmaker Micro Z2 long ADN \_\_\_\_\_ 104

Application



Application



Application



Application



Application



HARDENED  
STEEL  
BROCHURE

# TITANIUM

(Page references are based on the latest print version: 2025)

T

## PERFORMMAKER | END MILL CUTTER

|   |    |
|---|----|
| <b>K201687</b>   Ø4-20 Performmaker Z4 1,5xD AFVX | 8  |
| <b>K201688</b>   Ø4-20 Performmaker Z4 1,5xD AFVX | 10 |
| <b>K201692</b>   Ø6-20 Performmaker Z5 2xD AFVX   | 12 |
| <b>K201693</b>   Ø6-20 Performmaker Z5 2xD AFVX   | 14 |

Application



## FORMMAKER | TORUS CUTTER

|  |    |
|--|----|
| <b>K202423</b>   Ø4-20 Formmaker Z4 2xD AFVX | 16 |
| <b>K202424</b>   Ø4-20 Formmaker Z4 2xD AFVX | 20 |

Application



## BLADEMAKER | FACE TORUS CUTTER

|   |    |
|---|----|
| <b>K207033</b>   Ø2-16 Blademaker Z2-5 0,5xD short AFVX | 24 |
| <b>K207038</b>   Ø2-16 Blademaker Z2-5 0,5xD long AFVX  | 26 |

Application



## ROWMAKER | FULL RADIUS CUTTER

|   |    |
|---|----|
| <b>K203383</b>   Ø2-16 Rowmaker Z4 1xD short AFVX | 28 |
| <b>K203388</b>   Ø2-16 Rowmaker Z4 1xD long AFVX  | 30 |

Application



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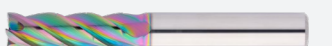
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**EXPERT** | Stainless steel



**EXPERT** | Non-ferrous materials



**EXPERT** | Hardened Steel



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