




















*Dynamisch-variable Spanwinkel*

# VARIABLER HELIX

Einzigartige Auswahl an high-tech Schaftfräsern mit ungleicher Teilung, oder spez. ausgelegten Geometrien. Homogene Schneidkanten garantieren eine verbesserte Spanabfuhr sowie eine perfekte Stabilität der Werkzeuge im Trochoidalen Einsatz wie in der Hochleistungszerspanung.

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|           |                   |  |   |
|-----------|-------------------|--|---|
| <b>3</b>  | <b>UEW</b>        | 4-Lp. Schaftfräser, Wellen-Profil, 35°       |    |
| <b>3</b>  | <b>VSM-4E</b>     | 4-Lp. Schaftfräser, Innenkühlung, 38°-41°    |    |
| <b>8</b>  | <b>XVO</b>        | 4-Lp. Schaftfräser, Innenkühlung, 36°-38°    |    |
| <b>8</b>  | <b>XEB</b>        | 4-Lp. Schaftfräser, HPC, 43°-47°             |    |
| <b>9</b>  | <b>XEV</b>        | 4-Lp. Schaftfräser, HPC, 36°-38°             |    |
| <b>9</b>  | <b>XPZ</b>        | 4-Lp. Schaftfräser, HPC, 43°-47°             |    |
| <b>10</b> | <b>UPG</b>        | 4-Lp. Schaftfräser, HPC, 35°-38°             |    |
| <b>10</b> | <b>UPE</b>        | 4-Lp. Schaftfräser, HPC, 35°, Hochleistung   |    |
| <b>11</b> | <b>BHPC-3</b>     | 3-Lp. Schaftfräser, Hinterschliff, 35°-38°   |    |
| <b>11</b> | <b>BHPC-4</b>     | 4-Lp. Schaftfräser, Hinterschliff, 35°-38°   |    |
| <b>12</b> | <b>UPER</b>       | 4-Lp. Schaftfräser, ungl.TLG 85°/87°/93°/95° |  |
| <b>12</b> | <b>BLC5L-VN</b>   | 5-Lp. Schaftfräser, 37°-38°/6°               |  |
| <b>13</b> | <b>BLC5L-VNT</b>  | 5-Lp. Schaftfräser, 37°-38°/6°               |  |
| <b>13</b> | <b>BLC5X-VN</b>   | 5-Lp. Schaftfräser, 37°-38°/6°               |  |
| <b>14</b> | <b>BLC5X-VNT</b>  | 5-Lp. Schaftfräser, 37°-38°/6°               |  |
| <b>14</b> | <b>BLC5X-XVN</b>  | 5-Lp. Schaftfräser, 37°-38°/6°               |  |
| <b>15</b> | <b>BLC5X-XVNT</b> | 5-Lp. Schaftfräser, 37°-38°/6°               |  |
| <b>15</b> | <b>BLC5L-VN</b>   | 5-Lp. Schaftfräser, 41°-42°/10°              |  |
| <b>16</b> | <b>BLC5L-VNT</b>  | 5-Lp. Schaftfräser, 41°-42°/10°              |  |
| <b>16</b> | <b>BLC5X-VN</b>   | 5-Lp. Schaftfräser, 41°-42°/10°              |  |
| <b>17</b> | <b>BLC5X-VNT</b>  | 5-Lp. Schaftfräser, 41°-42°/10°              |  |
| <b>17</b> | <b>BLC5X-XVN</b>  | 5-Lp. Schaftfräser, 41°-42°/10°              |  |

# UEW VHM Schaftfräser Wellen-Profil Schliff für grosse Spanvolumen



Super Micro-Grain universal für verschiedenste Materialien bis 55 HRC



Wellenprofil

| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| UEW0604   | 6.0  | 16 | 50  | 6      |           |     |    |    |        |
| UEW0804   | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| UEW1004   | 10.0 | 22 | 75  | 10     |           |     |    |    |        |
| UEW1204   | 12.0 | 26 | 75  | 12     |           |     |    |    |        |
| UEW1604   | 16.0 | 45 | 100 | 16     |           |     |    |    |        |
| UEW2004   | 20.0 | 55 | 120 | 20     |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |



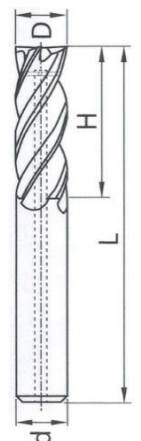
# VSM-4E VHM Schaftfräser mit Innenkühlung 38°/41° Helix



Super Micro-Grain universal für verschiedenste Materialien bis 55 HRC



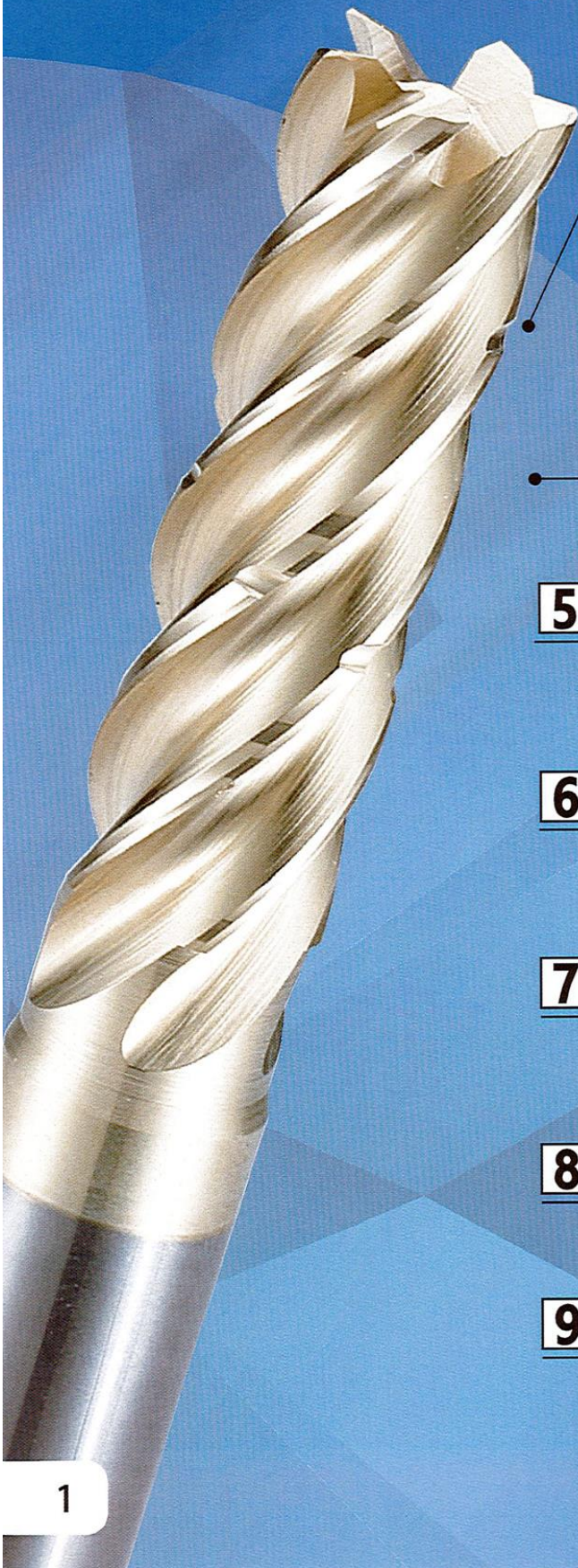
| Order-No.    | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|--------------|------|----|-----|--------|-----------|-----|----|----|--------|
| VSM-4E-C-D8  | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| VSM-4E-C-D10 | 10.0 | 25 | 75  | 10     |           |     |    |    |        |
| VSM-4E-C-D12 | 12.0 | 30 | 75  | 12     |           |     |    |    |        |
| VSM-4E-C-D16 | 16.0 | 45 | 100 | 16     |           |     |    |    |        |
| VSM-4E-C-D20 | 20.0 | 45 | 100 | 20     |           |     |    |    |        |
|              |      |    |     |        |           |     |    |    |        |
|              |      |    |     |        |           |     |    |    |        |
|              |      |    |     |        |           |     |    |    |        |
|              |      |    |     |        |           |     |    |    |        |





Special five flutes unequal flute spacing design

# UEF



## 1 ungleiche Schneidenteilung minimiert Vibrationen

Special five flutes unequal flute spacing design improves vibration resistance.

## 2 versetzte Spanbrechernuten ergeben kleine Späne Dadurch schneller Späne-Transport

Unique chip breaker avoids chip stripes accumulation on the work material and furthermore optimizes chip evacuation.

## 3 Jeder Ø ist in 3xD, 4xD und 5xD erhältlich. Damit kann der trochoidale Einsatz effizient erfolgen

Each diameter available with 3D, 4D and 5D flute length options. Side milling goes deeper for higher machining performance.

## 4 Signifikante Standzeiterhöhung durch die neue Beschichtung G11

New G11 coating significantly extends tool life.

## 5 Der neu konzipierte Herstellungsprozess, garantiert eine ultra feine Oberfläche. Standzeitverlängerung & Spänetransport !

With new manufacturing process, UEF tool surface is smooth. Better chip evacuation and longer tool life.

## 6 Schwer zerspanbare Materialien, Stähle, Rostfreie Stähle und alle Arten von Titanium. Traumhafte Bearbeitungszeiten

Good for difficult-to-cut material and normal steels, e.g. stainless steel and titanium alloy.

## 7 Ideal für den trochoidalen HSC/HFC Einsatz, sowie Feinschlichten oder Umsäumungsarbeiten

Ideal for high speed & high feed side milling and trochoidal milling. Great efficiency. Also suitable for finishing.

## 8 Vc kann bis zu 200m/min. hochgefahren werden, dies mit einer bis zu 30% längeren Standzeit

UEF Vc can reach 200(m/min). UEF tool life 30% higher than LEF.

## 9 Testresultate in unserem Applications-Zentrum ergeben 50% höhere Standzeit und 25% kürzere Bearbeitungszeit

Test result by DHF application center shows that UEF's tool life is 50% higher than other well-known tool brands.



# UEF

trochoidales HSC/HFC fräsen  
End Mills



| Type No. | D1<br>Diameter | L1<br>Flute Length | L3<br>O.A.L. | D2<br>Shank Dia. |
|----------|----------------|--------------------|--------------|------------------|
| UEF0605  | 6              | 18                 | 60           | 6                |
| UEF0605M | 6              | 24                 | 65           | 6                |
| UEF0605L | 6              | 30                 | 75           | 6                |
| UEF0805  | 8              | 24                 | 75           | 8                |
| UEF0805M | 8              | 32                 | 75           | 8                |
| UEF0805L | 8              | 40                 | 100          | 8                |
| UEF1005  | 10             | 30                 | 80           | 10               |
| UEF1005M | 10             | 40                 | 100          | 10               |
| UEF1005L | 10             | 50                 | 100          | 10               |
| UEF1205  | 12             | 36                 | 100          | 12               |
| UEF1205M | 12             | 48                 | 100          | 12               |
| UEF1605  | 16             | 50                 | 120          | 16               |
| UEF1605L | 16             | 70                 | 150          | 16               |

Note *bitte beachten Sie auf Seite 5 die detaillierten Testresultate*



Special five flutes unequal flute spacing design

# LEF



**1** *ungleiche Schneidenteilung minimiert Vibrationen*

Special five flutes unequal flute spacing design improves vibration resistance.

**2** *versetzte Spanbrechernuten ergeben kleine Späne. Dadurch schneller Späne-Transport*

Unique chip breaker avoids chip stripes accumulation on the work material and furthermore optimizes chip evacuation.

**3** *Jeder Ø ist in 3xD, 4xD und 5xD erhältlich. Damit kann der trochoidale Einsatz effizient erfolgen*

Each diameter available with 3D, 4D and 5D flute length options. Side milling goes deeper for higher machining performance.

**4** *Einsatz in schwer zerspanbaren Materialien, Stahl, Rostfrei und Titanium*

Good for difficult-to-cut material and normal steels, e.g. stainless steel and titanium alloy.

**5** *Ideal für den trochoidalen HSC/HFC Einsatz. Auch für Feinschlichtarbeiten bestens geeignet*

Ideal for high speed & high feed side milling and trochoidal milling. Great efficiency. Also suitable for finishing.

**6** *Vc kann bis zu 200m/min hochgefahren werden*

LEF Vc can reach 200(m/min).

**7** *Schneidengeometrie ist dieselbe wie UEF Beschichtung ist eine G10.*

LEF geometry same as UEF.



# LEF

## End Mills



| Type No. | D1<br>Diameter | L1<br>Flute Length | L3<br>O.A.L. | D2<br>Shank Dia. |
|----------|----------------|--------------------|--------------|------------------|
| LEF0605  | 6              | 18                 | 60           | 6                |
| LEF0605M | 6              | 24                 | 65           | 6                |
| LEF0605L | 6              | 30                 | 75           | 6                |
| LEF0805  | 8              | 24                 | 75           | 8                |
| LEF0805M | 8              | 32                 | 75           | 8                |
| LEF0805L | 8              | 40                 | 100          | 8                |
| LEF1005  | 10             | 30                 | 80           | 10               |
| LEF1005M | 10             | 40                 | 100          | 10               |
| LEF1005L | 10             | 50                 | 100          | 10               |
| LEF1205  | 12             | 36                 | 100          | 12               |
| LEF1205M | 12             | 48                 | 100          | 12               |
| LEF1605  | 16             | 50                 | 110          | 16               |
| LEF1605L | 16             | 70                 | 150          | 16               |

Note

Auf Seite 6 finden Sie die ausführlichen Testergebnisse aus unserer Application



# XVO VHM Schaftfräser mit Innenkühlung 36°/38° Helix HPC Einsatz



Ungleiche Teilung 92°/88°/86°/94°

Titan, Hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|----|--------|-----------|-----|----|----|--------|
| XVO0604   | 6.0  | 15 | 50 | 6      |           |     |    |    |        |
| XVO0804   | 8.0  | 20 | 60 | 8      |           |     |    |    |        |
| XVO1004   | 10.0 | 22 | 75 | 10     |           |     |    |    |        |
| XVO1204   | 12.0 | 26 | 75 | 12     |           |     |    |    |        |
|           |      |    |    |        |           |     |    |    |        |
|           |      |    |    |        |           |     |    |    |        |
|           |      |    |    |        |           |     |    |    |        |

# XEB VHM Schaftfräser 43°/47° Helix für HPC Bearbeitung



Ungleiche Teilung 97°/83°/83°/97°

Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| XEB0304   | 3.0  | 6  | 50  | 6      |           |     |    |    |        |
| XEB0404   | 4.0  | 9  | 50  | 6      |           |     |    |    |        |
| XEB0504   | 5.0  | 11 | 50  | 6      |           |     |    |    |        |
| XEB0604   | 6.0  | 13 | 50  | 6      |           |     |    |    |        |
| XEB0804   | 8.0  | 16 | 60  | 8      |           |     |    |    |        |
| XEB1004   | 10.0 | 22 | 75  | 10     |           |     |    |    |        |
| XEB1204   | 12.0 | 26 | 75  | 12     |           |     |    |    |        |
| XEB1604   | 16.0 | 36 | 100 | 16     |           |     |    |    |        |
| XEB2004   | 20.0 | 40 | 100 | 20     |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |
|           |      |    |     |        |           |     |    |    |        |

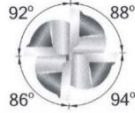


# XEV VHM Schaftfräser 36°/38° Helix für HPC Bearbeitung



Ungleiche Teilung 92°/88°/86°/94°

Titan, Hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| XEV0304   | 3.0  | 8  | 50  | 6      |           |     |    |    |        |
| XEV0404   | 4.0  | 11 | 50  | 6      |           |     |    |    |        |
| XEV0504   | 5.0  | 13 | 50  | 6      |           |     |    |    |        |
| XEV0604   | 6.0  | 15 | 50  | 6      |           |     |    |    |        |
| XEV0804   | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| XEV1004   | 10.0 | 22 | 75  | 10     |           |     |    |    |        |
| XEV1204   | 12.0 | 26 | 75  | 12     |           |     |    |    |        |
| XEV1604   | 16.0 | 36 | 100 | 16     |           |     |    |    |        |
| XEV2004   | 20.0 | 40 | 100 | 20     |           |     |    |    |        |

# XPZ VHM Schaftfräser 43°/47° Helix für HPC Bearbeitung



Ungleiche Teilung 97°/83°/83°/97°

Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| XPZ0304   | 3.0  | 8  | 50  | 6      |           |     |    |    |        |
| XPZ0404   | 4.0  | 11 | 50  | 6      |           |     |    |    |        |
| XPZ0504   | 5.0  | 13 | 50  | 6      |           |     |    |    |        |
| XPZ0604   | 6.0  | 16 | 50  | 6      |           |     |    |    |        |
| XPZ0804   | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| XPZ1004   | 10.0 | 22 | 75  | 10     |           |     |    |    |        |
| XPZ1204   | 12.0 | 26 | 75  | 12     |           |     |    |    |        |
| XPZ1604   | 16.0 | 36 | 100 | 16     |           |     |    |    |        |
| XPZ2004   | 20.0 | 40 | 100 | 20     |           |     |    |    |        |



# UPG VHM Schafffräser 35°/38° Helix für HPC Bearbeitung



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL | Schaft | Order-No. | Dia  | SL | TL  | Schaft |
|-----------|------|----|----|--------|-----------|------|----|-----|--------|
| UPG0302   | 3.0  | 8  | 50 | 6      | UPG1204   | 12.0 | 26 | 75  | 12     |
| UPG0404   | 4.0  | 11 | 50 | 6      | UPG1204L  | 12.0 | 35 | 100 | 12     |
| UPG0504   | 5.0  | 13 | 50 | 6      | UPG1604   | 16.0 | 40 | 100 | 16     |
| UPG0604   | 6.0  | 16 | 50 | 6      | UPG1604L  | 16.0 | 50 | 120 | 16     |
| UPG0604L  | 6.0  | 20 | 60 | 6      |           |      |    |     |        |
| UPG0804   | 8.0  | 20 | 60 | 8      |           |      |    |     |        |
| UPG0804L  | 8.0  | 25 | 75 | 8      |           |      |    |     |        |
| UPG1004   | 10.0 | 22 | 75 | 10     |           |      |    |     |        |
| UPG1004L  | 10.0 | 30 | 80 | 10     |           |      |    |     |        |

# UPE VHM Schafffräser 35° Helix Hochleistungszerpannung



Ungleiche Teilung 85°/93°/87°/95°

Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



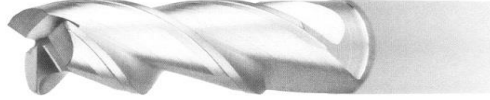
| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| UPE0304   | 3.0  | 8  | 50  | 6      |           |     |    |    |        |
| UPE0404   | 4.0  | 11 | 50  | 6      |           |     |    |    |        |
| UPE0504   | 5.0  | 13 | 50  | 6      |           |     |    |    |        |
| UPE0604   | 6.0  | 16 | 50  | 6      |           |     |    |    |        |
| UPE0804   | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| UPE1004   | 10.0 | 22 | 75  | 10     |           |     |    |    |        |
| UPE1204   | 12.0 | 26 | 75  | 12     |           |     |    |    |        |
| UPE1604   | 16.0 | 36 | 100 | 16     |           |     |    |    |        |
| UPE2004   | 20.0 | 40 | 100 | 20     |           |     |    |    |        |



# BHPC/3 VHM Schafffräser Hinterschliff 3-Lp. HPC Einsatz



Super Micro-Grain universal für verschiedenste Materialien bis 52 HRC

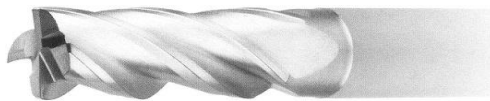


| Order-No.     | Dia  | SL | eff.NL | TL  | Schaft | Order-No. | Dia | SL | eff.NL | TL | α | Shaft |
|---------------|------|----|--------|-----|--------|-----------|-----|----|--------|----|---|-------|
| BHPC060-06003 | 6.0  | 13 | 20     | 60  | 6      |           |     |    |        |    |   |       |
| BHPC070-08003 | 8.0  | 19 | 25     | 70  | 8      |           |     |    |        |    |   |       |
| BHPC080-10003 | 10.0 | 22 | 30     | 80  | 10     |           |     |    |        |    |   |       |
| BHPC080-12003 | 12.0 | 26 | 35     | 80  | 12     |           |     |    |        |    |   |       |
| BHPC090-16003 | 16.0 | 32 | 45     | 90  | 16     |           |     |    |        |    |   |       |
| BHPC108-20003 | 20.0 | 40 | 55     | 108 | 20     |           |     |    |        |    |   |       |

# BHPC/4 VHM Schafffräser Hinterschliff 3-Lp. HPC Einsatz



Super Micro-Grain universal für verschiedenste Materialien bis 52 HRC



| Order-No.     | Dia  | SL | eff.NL | TL  | Schaft | Order-No. | Dia | SL | eff.NL | TL | α | Schaft |
|---------------|------|----|--------|-----|--------|-----------|-----|----|--------|----|---|--------|
| BHPC060-06004 | 6.0  | 13 | 20     | 60  | 6      |           |     |    |        |    |   |        |
| BHPC070-08004 | 8.0  | 19 | 25     | 70  | 8      |           |     |    |        |    |   |        |
| BHPC080-10004 | 10.0 | 22 | 30     | 80  | 10     |           |     |    |        |    |   |        |
| BHPC080-12004 | 12.0 | 26 | 35     | 80  | 12     |           |     |    |        |    |   |        |
| BHPC090-16004 | 16.0 | 32 | 45     | 90  | 16     |           |     |    |        |    |   |        |
| BHPC108-20004 | 20.0 | 40 | 55     | 108 | 20     |           |     |    |        |    |   |        |



# UPER VHM Eckradiusfräser HPC ungleiche Teilung, 35° Helix



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No. | Dia  | ER  | SL | TL | Schaft | Order-No. | Dia  | ER  | SL | TL  | Shaft |
|-----------|------|-----|----|----|--------|-----------|------|-----|----|-----|-------|
| UPER0405  | 4.0  | 0.5 | 11 | 50 | 6      | UPER1020  | 10.0 | 2.0 | 22 | 75  | 10    |
| UPER0502  | 5.0  | 0.2 | 13 | 50 | 6      | UPER1210  | 12.0 | 1.0 | 26 | 75  | 12    |
| UPER0505  | 5.0  | 0.5 | 13 | 50 | 6      | UPER1220  | 12.0 | 2.0 | 26 | 75  | 12    |
| UPER0605  | 6.0  | 0.5 | 16 | 50 | 6      | UPER1610  | 16.0 | 1.0 | 36 | 100 | 16    |
| UPER0610  | 6.0  | 1.0 | 16 | 50 | 6      | UPER1620  | 16.0 | 2.0 | 36 | 100 | 16    |
| UPER0805  | 8.0  | 0.5 | 20 | 60 | 8      | UPER2010  | 20.0 | 1.0 | 40 | 100 | 20    |
| UPER0810  | 8.0  | 1.0 | 20 | 60 | 8      | UPER2020  | 20.0 | 2.0 | 40 | 100 | 20    |
| UPER1005  | 10.0 | 0.5 | 22 | 75 | 10     |           |      |     |    |     |       |
| UPER1010  | 10.0 | 1.0 | 22 | 75 | 10     |           |      |     |    |     |       |

Trochoidal mit Spanteiler

# BLC5L-VN VHM Schaftfräser 37°/38° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No.HA  | Order-No.HB  | Dia  | SL | eff.NL | TL  | Z | Schaft | Order-No.HA. | Dia | SL | eff.NL | TL | Shaft |
|--------------|--------------|------|----|--------|-----|---|--------|--------------|-----|----|--------|----|-------|
| BLC5L03038VN | BLW5L03038VN | 3.0  | 6  | 14     | 57  | 5 | 6      |              |     |    |        |    |       |
| BLC5L04038VN | BLW5L04038VN | 4.0  | 8  | 16     | 57  | 5 | 6      |              |     |    |        |    |       |
| BLC5L05038VN | BLW5L05038VN | 5.0  | 10 | 18     | 57  | 5 | 6      |              |     |    |        |    |       |
| BLC5L06038VN | BLW5L06038VN | 6.0  | 12 | 19     | 57  | 5 | 6      |              |     |    |        |    |       |
| BLC5L08038VN | BLW5L08038VN | 8.0  | 16 | 25     | 63  | 5 | 8      |              |     |    |        |    |       |
| BLC5L10038VN | BLW5L10038VN | 10.0 | 20 | 30     | 72  | 5 | 10     |              |     |    |        |    |       |
| BLC5L12038VN | BLW5L12038VN | 12.0 | 24 | 36     | 83  | 5 | 12     |              |     |    |        |    |       |
| BLC5L16038VN | BLW5L16038VN | 16.0 | 32 | 42     | 92  | 5 | 16     |              |     |    |        |    |       |
| BLC5L20038VN | BLW5L20038VN | 20.0 | 40 | 52     | 104 | 5 | 20     |              |     |    |        |    |       |

Normale Länge



# BLC5L-VNT VHM Eckradiusfräser 37°/38° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No.HA     | Order-No.HB     | Dia  | SL | eff.NL | ER  | TL  | Z | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------------|-----------------|------|----|--------|-----|-----|---|--------|-----------|-----|----|----|--------|
| BLC5L06038VNT05 | BLW5L06038VNT05 | 6.0  | 12 | 19     | 0.5 | 57  | 5 | 6      |           |     |    |    |        |
| BLC5L06038VNT10 | BLW5L06038VNT10 | 6.0  | 12 | 19     | 1.0 | 57  | 5 | 6      |           |     |    |    |        |
| BLC5L08038VNT05 | BLW5L08038VNT05 | 8.0  | 16 | 25     | 0.5 | 63  | 5 | 8      |           |     |    |    |        |
| BLC5L08038VNT10 | BLW5L08038VNT10 | 8.0  | 16 | 25     | 1.0 | 63  | 5 | 8      |           |     |    |    |        |
| BLC5L10038VNT05 | BLW5L10038VNT05 | 10.0 | 20 | 30     | 0.5 | 72  | 5 | 10     |           |     |    |    |        |
| BLC5L10038VNT10 | BLW5L10038VNT10 | 10.0 | 20 | 30     | 1.0 | 72  | 5 | 10     |           |     |    |    |        |
| BLC5L10038VNT20 | BLW5L10038VNT20 | 10.0 | 20 | 30     | 2.0 | 72  | 5 | 10     |           |     |    |    |        |
| BLC5L12038VNT05 | BLW5L12038VNT05 | 12.0 | 24 | 36     | 0.5 | 83  | 5 | 12     |           |     |    |    |        |
| BLC5L12038VNT10 | BLW5L12038VNT10 | 12.0 | 24 | 36     | 1.0 | 83  | 5 | 12     |           |     |    |    |        |
| BLC5L12038VNT20 | BLW5L12038VNT20 | 12.0 | 24 | 36     | 2.0 | 83  | 5 | 12     |           |     |    |    |        |
| BLC5L16038VNT05 | BLW5L16038VNT05 | 16.0 | 32 | 42     | 0.5 | 92  | 5 | 16     |           |     |    |    |        |
| BLC5L16038VNT10 | BLW5L16038VNT10 | 16.0 | 32 | 42     | 1.0 | 92  | 5 | 16     |           |     |    |    |        |
| BLC5L16038VNT20 | BLW5L16038VNT20 | 16.0 | 32 | 42     | 2.0 | 92  | 5 | 16     |           |     |    |    |        |
| BLC5L20038VNT10 | BLW5L20038VNT10 | 20.0 | 40 | 52     | 1.0 | 104 | 5 | 20     |           |     |    |    |        |
| BLC5L20038VNT20 | BLW5L20038VNT20 | 20.0 | 40 | 52     | 2.0 | 104 | 5 | 20     |           |     |    |    |        |
| BLC5L20038VNT30 | BLW5L20038VNT30 | 20.0 | 40 | 52     | 3.0 | 104 | 5 | 20     |           |     |    |    |        |

Normale Länge

Trochoidal mit Spanteiler

# BLC5X-VN VHM Schaftfräser 37°/38° Helix 5-Lp.



Trochoidal mit Spanteiler

Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No.HA  | Order-No.HB  | Dia  | SL | eff.NL | TL  | Z | Schaft | Order-No. | Dia | SL | TL | Schaft |
|--------------|--------------|------|----|--------|-----|---|--------|-----------|-----|----|----|--------|
| BLC5X03038VN | BLW5X03038VN | 3.0  | 9  | 14     | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X04038VN | BLW5X04038VN | 4.0  | 12 | 18     | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X05038VN | BLW5X05038VN | 5.0  | 15 | 21     | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X06038VN | BLW5X06038VN | 6.0  | 18 | 24     | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X08038VN | BLW5X08038VN | 8.0  | 24 | 30     | 68  | 5 | 8      |           |     |    |    |        |
| BLC5X10038VN | BLW5X10038VN | 10.0 | 30 | 38     | 80  | 5 | 10     |           |     |    |    |        |
| BLC5X12038VN | BLW5X12038VN | 12.0 | 36 | 46     | 93  | 5 | 12     |           |     |    |    |        |
| BLC5X16038VN | BLW5X16038VN | 16.0 | 48 | 58     | 108 | 5 | 16     |           |     |    |    |        |
| BLC5X20038VN | BLW5X20038VN | 20.0 | 60 | 74     | 126 | 5 | 20     |           |     |    |    |        |

XL Länge



# BLC5X-VNT VHM Eckradiusfräser 37°/38° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



**XL Länge**

Trochoidal mit Spanteiler

| Order-No.HA     | Order-No.HB     | Dia  | SL | eff.NL | ER  | TL  | Z | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|-----------------|-----------------|------|----|--------|-----|-----|---|--------|-----------|-----|----|--------|----|--------|
| BLC5X06038VNT05 | BLW5X06038VNT05 | 6.0  | 6  | 24     | 0.5 | 62  | 5 | 6      |           |     |    |        |    |        |
| BLC5X06038VNT10 | BLW5X06038VNT10 | 6.0  | 6  | 24     | 1.0 | 62  | 5 | 6      |           |     |    |        |    |        |
| BLC5X08038VNT05 | BLW5X08038VNT05 | 8.0  | 8  | 30     | 0.5 | 68  | 5 | 8      |           |     |    |        |    |        |
| BLC5X08038VNT10 | BLW5X08038VNT10 | 8.0  | 8  | 30     | 1.0 | 68  | 5 | 8      |           |     |    |        |    |        |
| BLC5X10038VNT05 | BLW5X10038VNT05 | 10.0 | 10 | 38     | 0.5 | 80  | 5 | 10     |           |     |    |        |    |        |
| BLC5X10038VNT10 | BLW5X10038VNT10 | 10.0 | 10 | 38     | 1.0 | 80  | 5 | 10     |           |     |    |        |    |        |
| BLC5X10038VNT20 | BLW5X10038VNT20 | 10.0 | 10 | 38     | 2.0 | 80  | 5 | 10     |           |     |    |        |    |        |
| BLC5X12038VNT05 | BLW5X12038VNT05 | 12.0 | 12 | 46     | 0.5 | 93  | 5 | 12     |           |     |    |        |    |        |
| BLC5X12038VNT10 | BLW5X12038VNT10 | 12.0 | 12 | 46     | 1.0 | 93  | 5 | 12     |           |     |    |        |    |        |
| BLC5X12038VNT20 | BLW5X12038VNT20 | 12.0 | 12 | 46     | 2.0 | 93  | 5 | 12     |           |     |    |        |    |        |
| BLC5X16038VNT05 | BLW5X16038VNT05 | 16.0 | 16 | 58     | 0.5 | 108 | 5 | 16     |           |     |    |        |    |        |
| BLC5X16038VNT10 | BLW5X16038VNT10 | 16.0 | 16 | 58     | 1.0 | 108 | 5 | 16     |           |     |    |        |    |        |
| BLC5X16038VNT20 | BLW5X16038VNT20 | 16.0 | 16 | 58     | 2.0 | 108 | 5 | 16     |           |     |    |        |    |        |
| BLC5X20038VNT10 | BLW5X20038VNT10 | 20.0 | 20 | 74     | 2.0 | 126 | 5 | 20     |           |     |    |        |    |        |
| BLC5X20038VNT20 | BLW5X20038VNT20 | 20.0 | 20 | 74     | 2.0 | 126 | 5 | 20     |           |     |    |        |    |        |
| BLC5X20038VNT30 | BLW5X20038VNT30 | 20.0 | 20 | 74     | 3.0 | 126 | 5 | 20     |           |     |    |        |    |        |

# BLC5X-XVN VHM Schafffräser 37°/38° Helix 5-Lp.



Trochoidal mit Spanteiler

Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



| Order-No.HA   | Order-No.HB   | Dia  | SL | eff.NL | ER  | TL | Z  | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|---------------|---------------|------|----|--------|-----|----|----|--------|-----------|-----|----|--------|----|--------|
| BLC5X03038XVN | BLW5X03038XVN | 3.0  | 12 | 18     | 62  | 5  | 6  |        |           |     |    |        |    |        |
| BLC5X04038XVN | BLW5X04038XVN | 4.0  | 16 | 21     | 62  | 5  | 6  |        |           |     |    |        |    |        |
| BLC5X05038XVN | BLW5X05038XVN | 5.0  | 20 | 25     | 70  | 5  | 6  |        |           |     |    |        |    |        |
| BLC5X06038XVN | BLW5X06038XVN | 6.0  | 24 | 30     | 70  | 5  | 6  |        |           |     |    |        |    |        |
| BLC5X08038XVN | BLW5X08038XVN | 8.0  | 32 | 38     | 80  | 5  | 8  |        |           |     |    |        |    |        |
| BLC5X10038XVN | BLW5X10038XVN | 10.0 | 40 | 48     | 90  | 5  | 10 |        |           |     |    |        |    |        |
| BLC5X12038XVN | BLW5X12038XVN | 12.0 | 48 | 58     | 110 | 5  | 12 |        |           |     |    |        |    |        |
| BLC5X16038XVN | BLW5X16038XVN | 16.0 | 64 | 74     | 130 | 5  | 16 |        |           |     |    |        |    |        |
| BLC5X20038XVN | BLW5X20038XVN | 20.0 | 80 | 94     | 150 | 5  | 20 |        |           |     |    |        |    |        |

**XXL Länge**



# BLC5X-XVNT VHM Eckradiusfräser 37°/38° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 60 HRC



XXL Länge

Trochoidal mit Spanteiler

| Order-No.HA      | Order-No.HB      | Dia  | SL | eff.NL | ER  | TL  | Z | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|------------------|------------------|------|----|--------|-----|-----|---|--------|-----------|-----|----|--------|----|--------|
| BLC5X06038XVNT05 | BLW5X06038XVNT05 | 6.0  | 24 | 30     | 0.5 | 70  | 5 | 6      |           |     |    |        |    |        |
| BLC5X06038XVNT10 | BLW5X06038XVNT10 | 6.0  | 24 | 30     | 1   | 70  | 5 | 6      |           |     |    |        |    |        |
| BLC5X08038XVNT05 | BLW5X08038XVNT05 | 8.0  | 32 | 38     | 0.5 | 80  | 5 | 8      |           |     |    |        |    |        |
| BLC5X08038XVNT10 | BLW5X08038XVNT10 | 8.0  | 32 | 38     | 1   | 80  | 5 | 8      |           |     |    |        |    |        |
| BLC5X10038XVNT05 | BLW5X10038XVNT05 | 10.0 | 40 | 48     | 0.5 | 90  | 5 | 10     |           |     |    |        |    |        |
| BLC5X10038XVNT10 | BLW5X10038XVNT10 | 10.0 | 40 | 48     | 1   | 90  | 5 | 10     |           |     |    |        |    |        |
| BLC5X10038XVNT20 | BLW5X10038XVNT20 | 10.0 | 40 | 48     | 2   | 90  | 5 | 10     |           |     |    |        |    |        |
| BLC5X12038XVNT05 | BLW5X12038XVNT05 | 12.0 | 48 | 58     | 0.5 | 110 | 5 | 12     |           |     |    |        |    |        |
| BLC5X12038XVNT10 | BLW5X12038XVNT10 | 12.0 | 48 | 58     | 1   | 110 | 5 | 12     |           |     |    |        |    |        |
| BLC5X12038XVNT20 | BLW5X12038XVNT20 | 12.0 | 48 | 58     | 2   | 110 | 5 | 12     |           |     |    |        |    |        |
| BLC5X16038XVNT05 | BLW5X16038XVNT05 | 16.0 | 64 | 74     | 0.5 | 130 | 5 | 16     |           |     |    |        |    |        |
| BLC5X16038XVNT10 | BLW5X16038XVNT10 | 16.0 | 64 | 74     | 1   | 130 | 5 | 16     |           |     |    |        |    |        |
| BLC5X16038XVNT20 | BLW5X16038XVNT20 | 16.0 | 64 | 74     | 2   | 130 | 5 | 16     |           |     |    |        |    |        |
| BLC5X20038XVNT10 | BLW5X20038XVNT10 | 20.0 | 80 | 94     | 1   | 150 | 5 | 20     |           |     |    |        |    |        |
| BLC5X20038XVNT20 | BLW5X20038XVNT20 | 20.0 | 80 | 94     | 2   | 150 | 5 | 20     |           |     |    |        |    |        |
| BLC5X20038XVNT30 | BLW5X20038XVNT30 | 20.0 | 80 | 94     | 3   | 150 | 5 | 20     |           |     |    |        |    |        |

# BLC5L-VN VHM Schaftfräser 41°/42° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 52 HRC



| Order-No.HA  | Order-No.HB  | Dia  | SL | eff.NL | TL  | Z | Schaft | Order-No. | Dia | ER | SL | TL | Schaft |
|--------------|--------------|------|----|--------|-----|---|--------|-----------|-----|----|----|----|--------|
| BLC5L03042VN | BLW5L03042VN | 3.0  | 6  | 14     | 57  | 5 | 6      |           |     |    |    |    |        |
| BLC5L04042VN | BLW5L04042VN | 4.0  | 8  | 16     | 57  | 5 | 6      |           |     |    |    |    |        |
| BLC5L05042VN | BLW5L05042VN | 5.0  | 10 | 18     | 57  | 5 | 6      |           |     |    |    |    |        |
| BLC5L06042VN | BLW5L06042VN | 6.0  | 12 | 19     | 57  | 5 | 6      |           |     |    |    |    |        |
| BLC5L08042VN | BLW5L08042VN | 8.0  | 16 | 25     | 63  | 5 | 8      |           |     |    |    |    |        |
| BLC5L10042VN | BLW5L10042VN | 10.0 | 20 | 30     | 72  | 5 | 10     |           |     |    |    |    |        |
| BLC5L12042VN | BLW5L12042VN | 12.0 | 24 | 36     | 83  | 5 | 12     |           |     |    |    |    |        |
| BLC5L16042VN | BLW5L16042VN | 16.0 | 32 | 42     | 92  | 5 | 16     |           |     |    |    |    |        |
| BLC5L20042VN | BLW5L20042VN | 20.0 | 40 | 52     | 104 | 5 | 20     |           |     |    |    |    |        |

Normale Länge

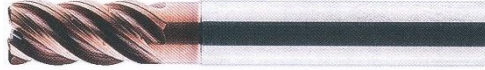
Trochoidal mit Spanteiler



# BLC5L-VNT VHM Eckradiusfräser 41°/42° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 52 HRC



| Order-No.HA     | Order-No.HB     | Dia  | SL | eff.NL | ER  | TL  | Z | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|-----------------|-----------------|------|----|--------|-----|-----|---|--------|-----------|-----|----|--------|----|--------|
| BLC5L06042VNT01 | BLW5L06042VNT01 | 6.0  | 12 | 19     | 0.1 | 57  | 5 | 6      |           |     |    |        |    |        |
| BLC5L06042VNT05 | BLW5L06042VNT05 | 6.0  | 12 | 19     | 0.5 | 57  | 5 | 6      |           |     |    |        |    |        |
| BLC5L06042VNT10 | BLW5L06042VNT10 | 6.0  | 12 | 19     | 1.0 | 57  | 5 | 6      |           |     |    |        |    |        |
| BLC5L08042VNT02 | BLW5L08042VNT02 | 8.0  | 16 | 25     | 0.2 | 63  | 5 | 8      |           |     |    |        |    |        |
| BLC5L08042VNT05 | BLW5L08042VNT05 | 8.0  | 16 | 25     | 0.5 | 63  | 5 | 8      |           |     |    |        |    |        |
| BLC5L08042VNT10 | BLW5L08042VNT10 | 8.0  | 16 | 25     | 1.0 | 63  | 5 | 8      |           |     |    |        |    |        |
| BLC5L10042VNT02 | BLW5L10042VNT02 | 10.0 | 20 | 30     | 0.2 | 72  | 5 | 10     |           |     |    |        |    |        |
| BLC5L10042VNT05 | BLW5L10042VNT05 | 10.0 | 20 | 30     | 0.5 | 72  | 5 | 10     |           |     |    |        |    |        |
| BLC5L10042VNT10 | BLW5L10042VNT10 | 10.0 | 20 | 30     | 1.0 | 72  | 5 | 10     |           |     |    |        |    |        |
| BLC5L10042VNT20 | BLW5L10042VNT20 | 10.0 | 20 | 30     | 2.0 | 72  | 5 | 10     |           |     |    |        |    |        |
| BLC5L12042VNT03 | BLW5L12042VNT03 | 12.0 | 24 | 36     | 0.3 | 83  | 5 | 12     |           |     |    |        |    |        |
| BLC5L12042VNT05 | BLW5L12042VNT05 | 12.0 | 24 | 36     | 0.5 | 83  | 5 | 12     |           |     |    |        |    |        |
| BLC5L12042VNT10 | BLW5L12042VNT10 | 12.0 | 24 | 36     | 1.0 | 83  | 5 | 12     |           |     |    |        |    |        |
| BLC5L12042VNT20 | BLW5L12042VNT20 | 12.0 | 24 | 36     | 2.0 | 83  | 5 | 12     |           |     |    |        |    |        |
| BLC5L16042VNT03 | BLW5L16042VNT03 | 16.0 | 32 | 42     | 0.3 | 92  | 5 | 16     |           |     |    |        |    |        |
| BLC5L16042VNT05 | BLW5L16042VNT05 | 16.0 | 32 | 42     | 0.5 | 92  | 5 | 16     |           |     |    |        |    |        |
| BLC5L16042VNT10 | BLW5L16042VNT10 | 16.0 | 32 | 42     | 1.0 | 92  | 5 | 16     |           |     |    |        |    |        |
| BLC5L16042VNT20 | BLW5L16042VNT20 | 16.0 | 32 | 42     | 2.0 | 92  | 5 | 16     |           |     |    |        |    |        |
| BLC5L20042VNT03 | BLW5L20042VNT03 | 20.0 | 40 | 52     | 0.3 | 104 | 5 | 20     |           |     |    |        |    |        |
| BLC5L20042VNT10 | BLW5L20042VNT10 | 20.0 | 40 | 52     | 1.0 | 104 | 5 | 20     |           |     |    |        |    |        |
| BLC5L20042VNT20 | BLW5L20042VNT20 | 20.0 | 40 | 52     | 2.0 | 104 | 5 | 20     |           |     |    |        |    |        |
| BLC5L20042VNT30 | BLW5L20042VNT30 | 20.0 | 40 | 52     | 3.0 | 104 | 5 | 20     |           |     |    |        |    |        |

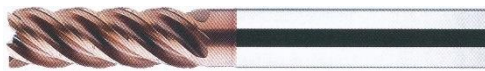
Normale Länge

Trochoidal mit Spanteiler

# BLC5X-VN VHM Schaftfräser 41°/42° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 52 HRC



| Order-No.HA  | Order-No.HB  | Dia  | SL | eff.NL | TL  | Z | Schaft | Order-No. | Dia | ER | SL | eff.NL | TL | Schaft |
|--------------|--------------|------|----|--------|-----|---|--------|-----------|-----|----|----|--------|----|--------|
| BLC5X03042VN | BLW5X03042VN | 3.0  | 9  | 14     | 62  | 5 | 6      |           |     |    |    |        |    |        |
| BLC5X04042VN | BLW5X04042VN | 4.0  | 12 | 18     | 62  | 5 | 6      |           |     |    |    |        |    |        |
| BLC5X05042VN | BLW5X05042VN | 5.0  | 15 | 21     | 62  | 5 | 6      |           |     |    |    |        |    |        |
| BLC5X06042VN | BLW5X06042VN | 6.0  | 18 | 24     | 62  | 5 | 6      |           |     |    |    |        |    |        |
| BLC5X08042VN | BLW5X08042VN | 8.0  | 24 | 30     | 68  | 5 | 8      |           |     |    |    |        |    |        |
| BLC5X10042VN | BLW5X10042VN | 10.0 | 30 | 38     | 80  | 5 | 10     |           |     |    |    |        |    |        |
| BLC5X12042VN | BLW5X12042VN | 12.0 | 36 | 46     | 93  | 5 | 12     |           |     |    |    |        |    |        |
| BLC5X16042VN | BLW5X16042VN | 16.0 | 48 | 58     | 108 | 5 | 16     |           |     |    |    |        |    |        |
| BLC5X20042VN | BLW5X20042VN | 20.0 | 60 | 74     | 126 | 5 | 20     |           |     |    |    |        |    |        |

XL Länge

Trochoidal mit Spanteiler

# BLC5X-VNT VHM Eckradiusfräser 41°/42° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 52 HRC



| Order-No.HA     | Order-No.HB     | Dia  | SL | eff.NL | ER  | TL  | Z | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------------|-----------------|------|----|--------|-----|-----|---|--------|-----------|-----|----|----|--------|
| BLC5X06042VNT01 | BLW5X06042VNT01 | 6.0  | 18 | 24     | 0.1 | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X06042VNT05 | BLW5X06042VNT05 | 6.0  | 18 | 24     | 0.5 | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X06042VNT10 | BLW5X06042VNT10 | 6.0  | 18 | 24     | 1.0 | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X08042VNT02 | BLW5X08042VNT02 | 8.0  | 24 | 30     | 0.2 | 68  | 5 | 8      |           |     |    |    |        |
| BLC5X08042VNT05 | BLW5X08042VNT05 | 8.0  | 24 | 30     | 0.5 | 68  | 5 | 8      |           |     |    |    |        |
| BLC5X08042VNT10 | BLW5X08042VNT10 | 8.0  | 24 | 30     | 1.0 | 68  | 5 | 8      |           |     |    |    |        |
| BLC5X10042VNT02 | BLW5X10042VNT02 | 10.0 | 30 | 38     | 0.2 | 80  | 5 | 10     |           |     |    |    |        |
| BLC5X10042VNT05 | BLW5X10042VNT05 | 10.0 | 30 | 38     | 0.5 | 80  | 5 | 10     |           |     |    |    |        |
| BLC5X10042VNT10 | BLW5X10042VNT10 | 10.0 | 30 | 38     | 1.0 | 80  | 5 | 10     |           |     |    |    |        |
| BLC5X10042VNT20 | BLW5X10042VNT20 | 10.0 | 30 | 38     | 2.0 | 80  | 5 | 10     |           |     |    |    |        |
| BLC5X12042VNT03 | BLW5X12042VNT03 | 12.0 | 36 | 46     | 0.3 | 93  | 5 | 12     |           |     |    |    |        |
| BLC5X12042VNT05 | BLW5X12042VNT05 | 12.0 | 36 | 46     | 0.5 | 93  | 5 | 12     |           |     |    |    |        |
| BLC5X12042VNT10 | BLW5X12042VNT10 | 12.0 | 36 | 46     | 1.0 | 93  | 5 | 12     |           |     |    |    |        |
| BLC5X12042VNT20 | BLW5X12042VNT20 | 12.0 | 36 | 46     | 2.0 | 93  | 5 | 12     |           |     |    |    |        |
| BLC5X16042VNT03 | BLW5X16042VNT03 | 16.0 | 48 | 58     | 0.3 | 108 | 5 | 16     |           |     |    |    |        |
| BLC5X16042VNT05 | BLW5X16042VNT05 | 16.0 | 48 | 58     | 0.5 | 108 | 5 | 16     |           |     |    |    |        |
| BLC5X16042VNT10 | BLW5X16042VNT10 | 16.0 | 48 | 58     | 1.0 | 108 | 5 | 16     |           |     |    |    |        |
| BLC5X16042VNT20 | BLW5X16042VNT20 | 16.0 | 48 | 58     | 2.0 | 108 | 5 | 16     |           |     |    |    |        |
| BLC5X20042VNT03 | BLW5X20042VNT03 | 20.0 | 60 | 74     | 0.3 | 126 | 5 | 20     |           |     |    |    |        |
| BLC5X20042VNT10 | BLW5X20042VNT10 | 20.0 | 60 | 74     | 1.0 | 126 | 5 | 20     |           |     |    |    |        |
| BLC5X20042VNT20 | BLW5X20042VNT20 | 20.0 | 60 | 74     | 2.0 | 126 | 5 | 20     |           |     |    |    |        |
| BLC5X20042VNT30 | BLW5X20042VNT30 | 20.0 | 60 | 74     | 3.0 | 126 | 5 | 20     |           |     |    |    |        |

Läng

# BLC5X-XVN VHM Schafffräser 41°/42° Helix 5-Lp.



Titan, hitzebeständige-, legierte WZ-Stähle, Carbon-Stähle, Materialien bis 52 HRC



| Order-No.HA   | Order-No.HB   | Dia  | SL | eff.NL | TL  | Z | Schaft | Order-No. | Dia | SL | TL | Schaft |
|---------------|---------------|------|----|--------|-----|---|--------|-----------|-----|----|----|--------|
| BLC5X03042XVN | BLW5X03042XVN | 3.0  | 12 | 18     | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X04042XVN | BLW5X04042XVN | 4.0  | 16 | 21     | 62  | 5 | 6      |           |     |    |    |        |
| BLC5X05042XVN | BLW5X05042XVN | 5.0  | 20 | 25     | 70  | 5 | 6      |           |     |    |    |        |
| BLC5X06042XVN | BLW5X06042XVN | 6.0  | 24 | 30     | 70  | 5 | 6      |           |     |    |    |        |
| BLC5X08042XVN | BLW5X08042XVN | 8.0  | 23 | 38     | 80  | 5 | 8      |           |     |    |    |        |
| BLC5X10042XVN | BLW5X10042XVN | 10.0 | 40 | 48     | 90  | 5 | 10     |           |     |    |    |        |
| BLC5X12042XVN | BLW5X12042XVN | 12.0 | 48 | 58     | 110 | 5 | 12     |           |     |    |    |        |
| BLC5X16042XVN | BLW5X16042XVN | 16.0 | 64 | 74     | 130 | 5 | 16     |           |     |    |    |        |
| BLC5X20042XVN | BLW5X20042XVN | 20.0 | 80 | 94     | 150 | 5 | 20     |           |     |    |    |        |

XXL Länge



 **JANPO**  
The image shows several metal drill bits of various designs and colors (blue, orange, silver) arranged diagonally. The JANPO logo is in the top left corner.





















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|           |                |  |   |
|-----------|----------------|--|---|
| <b>3</b>  | <b>UBA</b>     | 2-Lp. Kugelfräser                                |    |
| <b>3</b>  | <b>UBH/I/J</b> | 2-Lp. Kugelfräser, lang                          |    |
| <b>4</b>  | <b>UBM</b>     | 2-Lp. Kugelfräser, Power Version                 |    |
| <b>4</b>  | <b>UBN</b>     | 2-Lp. Kugelfräser, hinterschliften               |    |
| <b>5</b>  | <b>UBP</b>     | 2-Lp. Kugelfräser, konisch verstärkt             |    |
| <b>5</b>  | <b>UBPT</b>    | 2-Lp. Kugelfräser, kon. Freistellung 0.5°-2°     |    |
| <b>6</b>  | <b>USB</b>     | 2-Lp. Kugelfräser, kon. Verstärkt 1.5°-5°        |    |
| <b>6</b>  | <b>UB</b>      | 2-Lp. Kugelfräser, HSC-Version, heavy cut        |    |
| <b>7</b>  | <b>HTD</b>     | 3-Lp. Schaftfräser, Power Version                |    |
| <b>7</b>  | <b>UHP</b>     | 4-Lp. Schaftfräser, Power Version                |   |
| <b>8</b>  | <b>URX</b>     | 4-Lp. Eckradiusfräser, hinterschliften           |  |
| <b>8</b>  | <b>URH</b>     | 3-Lp. Eckradiusfräser, hinterschliften           |  |
| <b>9</b>  | <b>URV</b>     | 6-Lp. Eckradiusfräser, hinterschliften           |  |
| <b>9</b>  | <b>RTB</b>     | 4-Lp. Eckradiusfräser                            |  |
| <b>10</b> | <b>UHR</b>     | 3-Lp. Eckradiusfräser, hinterschliften, lang     |  |
| <b>10</b> | <b>UOR</b>     | 4-Lp. Eckradiusfräser, hinterschliften, 0° Helix |  |
| <b>11</b> | <b>UET</b>     | 4-Lp. Schaftfräser, HSC-Ausführung               |  |
| <b>11</b> | <b>VTB</b>     | 6-Lp. Schaftfräser, heavy cut                    |  |
|           |                |  |  |
|           |                |  |  |





Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC 



| Order-No. | Dia | VR   | SL | TL | Schaft | Order-No. | Dia | SL | TL | Shaft |
|-----------|-----|------|----|----|--------|-----------|-----|----|----|-------|
| UBA0102   | 1   | 0.5  | 2  | 50 | 4      |           |     |    |    |       |
| UBA0152   | 1.5 | 0.75 | 3  | 50 | 4      |           |     |    |    |       |
| UBA0202   | 2   | 1    | 4  | 50 | 4      |           |     |    |    |       |
| UBA0302   | 3   | 1.5  | 6  | 50 | 4      |           |     |    |    |       |
| UBA0402   | 4   | 2    | 8  | 50 | 4      |           |     |    |    |       |
| UBA0502   | 5   | 2.5  | 10 | 50 | 6      |           |     |    |    |       |
| UBA0602   | 6   | 3    | 12 | 50 | 6      |           |     |    |    |       |
| UBA0802   | 8   | 4    | 16 | 60 | 8      |           |     |    |    |       |
| UBA1002   | 10  | 5    | 20 | 75 | 10     |           |     |    |    |       |
| UBA1202   | 12  | 6    | 24 | 75 | 12     |           |     |    |    |       |

## UBH-UBI-UBJ VHM Kugelfräser überlange Ausführung



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC 



| Order-No. | Dia | VR  | SL | TL  | Schaft | Order-No. | Dia | SL | TL  | Schaft |
|-----------|-----|-----|----|-----|--------|-----------|-----|----|-----|--------|
| UBH0202   | 2   | 1   | 4  | 75  | 6      | UBJ1002   | 10  | 20 | 150 | 10     |
| UBH0302   | 3   | 1.5 | 6  | 75  | 6      | UBJ1202   | 12  | 24 | 150 | 12     |
| UBH0402   | 4   | 2   | 8  | 75  | 6      | UBJ1602   | 16  | 32 | 150 | 16     |
| UBH0502   | 5   | 2.5 | 10 | 75  | 6      | UBJ2002   | 20  | 40 | 150 | 20     |
| UBH0602   | 6   | 3   | 12 | 75  | 6      |           |     |    |     |        |
| UBH0802   | 8   | 4   | 16 | 75  | 8      |           |     |    |     |        |
|           |     |     |    |     |        |           |     |    |     |        |
| UBI0402   | 4   | 2   | 8  | 100 | 6      |           |     |    |     |        |
| UBI0602   | 6   | 3   | 12 | 100 | 6      |           |     |    |     |        |
| UBI0802   | 8   | 4   | 16 | 100 | 8      |           |     |    |     |        |
| UBI1002   | 10  | 5   | 20 | 100 | 10     |           |     |    |     |        |
| UBI1202   | 12  | 6   | 24 | 100 | 12     |           |     |    |     |        |

## UBM VHM Kugelfräser Power-Version

Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | VR   | SL  | TL | Schaft | Order-No. | Dia | SL   | VR  | TL | Schaft |
|-----------|-----|------|-----|----|--------|-----------|-----|------|-----|----|--------|
| UBM0022   | 0.2 | 0.1  | 0.4 | 50 | 4      | UBM0102   | 1.0 | 0.5  | 2   | 50 | 4      |
| UBM0032   | 0.3 | 0.15 | 0.6 | 50 | 4      | UBM0122   | 1.2 | 0.6  | 2.4 | 50 | 4      |
| UBM0042   | 0.4 | 0.2  | 0.8 | 50 | 4      | UBM0142   | 1.4 | 0.7  | 2.8 | 50 | 4      |
| UBM0052   | 0.5 | 0.25 | 1   | 50 | 4      | UBM0152   | 1.5 | 0.75 | 3   | 50 | 4      |
| UBM0062   | 0.6 | 0.3  | 1.2 | 50 | 4      | UBM0202   | 2.0 | 1    | 4   | 50 | 4      |
| UBM0072   | 0.7 | 0.35 | 1.4 | 50 | 4      | UBM0302   | 3.0 | 1.5  | 6   | 50 | 4      |
| UBM0082   | 0.8 | 0.4  | 1.6 | 50 | 4      | UBM0402   | 4.0 | 2    | 8   | 50 | 4      |
| UBM0092   | 0.9 | 0.45 | 1.8 | 50 | 4      |           |     |      |     |    |        |

## UBN VHM Kugelfräser mit Hinterschliff

Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | VR   | SL  | eff.NL | TL | Schaft | Order-No. | Dia | VR  | SL  | eff.NL | TL | Schaft |
|-----------|-----|------|-----|--------|----|--------|-----------|-----|-----|-----|--------|----|--------|
| UBN05022  | 0.5 | 0.25 | 1   | 2      | 50 | 4      | UBN16082  | 1.6 | 0.8 | 2.5 | 8      | 50 | 4      |
| UBN05042  | 0.5 | 0.25 | 1   | 4      | 50 | 4      | UBN16122  | 1.6 | 0.8 | 2.5 | 12     | 50 | 4      |
| UBN05062  | 0.5 | 0.25 | 1   | 6      | 50 | 4      | UBN16162  | 1.6 | 0.8 | 2.5 | 16     | 50 | 4      |
| UBN06042  | 0.6 | 0.3  | 1.2 | 4      | 50 | 4      | UBN20082  | 2.0 | 1.0 | 3   | 8      | 50 | 4      |
| UBN06062  | 0.6 | 0.3  | 1.2 | 6      | 50 | 4      | UBN20122  | 2.0 | 1.0 | 3   | 12     | 50 | 4      |
| UBN08062  | 0.8 | 0.4  | 1.2 | 6      | 50 | 4      | UBN20162  | 2.0 | 1.0 | 3   | 16     | 50 | 4      |
| UBN08082  | 0.8 | 0.4  | 1.2 | 8      | 50 | 4      | UBN20202  | 2.0 | 1.0 | 3   | 20     | 50 | 4      |
| UBN10062  | 1.0 | 0.5  | 1.5 | 6      | 50 | 4      | UBN30082  | 3.0 | 1.5 | 4   | 8      | 50 | 6      |
| UBN10082  | 1.0 | 0.5  | 1.5 | 8      | 50 | 4      | UBN30102  | 3.0 | 1.5 | 4   | 10     | 50 | 6      |
| UBN10102  | 1.0 | 0.5  | 1.5 | 10     | 50 | 4      | UBN30162  | 3.0 | 1.5 | 4   | 16     | 50 | 6      |
| UBN10122  | 1.0 | 0.5  | 1.5 | 12     | 50 | 4      | UBN30202  | 3.0 | 1.5 | 4   | 20     | 60 | 6      |
| UBN12082  | 1.2 | 0.6  | 2   | 8      | 50 | 4      | UBN30252  | 3.0 | 1.5 | 4   | 25     | 60 | 6      |
| UBN12122  | 1.2 | 0.6  | 2   | 12     | 50 | 4      | UBN40102  | 4.0 | 2.0 | 5   | 10     | 75 | 6      |
| UBN15082  | 1.5 | 0.75 | 2   | 8      | 50 | 4      | UBN40152  | 4.0 | 2.0 | 5   | 15     | 75 | 6      |
| UBN15122  | 1.5 | 0.75 | 2   | 12     | 50 | 4      | UBN40202  | 4.0 | 2.0 | 5   | 20     | 75 | 6      |
| UBN15162  | 1.5 | 0.75 | 2   | 16     | 50 | 4      | UBN40252  | 4.0 | 2.0 | 5   | 25     | 75 | 6      |
| UBN15202  | 1.5 | 0.75 | 2   | 20     | 50 | 4      | UBN40302  | 4.0 | 2.0 | 5   | 30     | 75 | 6      |

## UBP VHM Kugelfräser konisch verstärkt mit 1,5° - 5°



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | VR  | SL | TL  | $\alpha$ | Schaft | Order-No. | Dia | VR | SL | TL  | $\alpha$ | Schaft |
|-----------|-----|-----|----|-----|----------|--------|-----------|-----|----|----|-----|----------|--------|
| UBP02032  | 2.0 | 1   | 4  | 75  | 3°       | 6      | UBP04052  | 4.0 | 2  | 8  | 75  | 5°       | 6      |
| UBP02052  | 2.0 | 1   | 4  | 75  | 5°       | 6      | UBP06152  | 6.0 | 3  | 12 | 100 | 1.5°     | 8      |
| UBP03152  | 3.0 | 1.5 | 6  | 100 | 1.5°     | 6      | UBP06032  | 6.0 | 3  | 12 | 75  | 3°       | 8      |
| UBP03032  | 3.0 | 1.5 | 6  | 75  | 3°       | 6      | UBP06052  | 6.0 | 3  | 12 | 100 | 5°       | 8      |
| UBP03052  | 3.0 | 1.5 | 6  | 75  | 5°       | 6      | UBP06032B | 6.0 | 3  | 12 | 100 | 3°       | 10     |
| UBP04152  | 4.0 | 2   | 8  | 100 | 1.5°     | 6      | UBP06052B | 6.0 | 3  | 12 | 100 | 5°       | 10     |
| UBP04032  | 4.0 | 2   | 8  | 100 | 3°       | 6      |           |     |    |    |     |          |        |

## UBPT VHM Kugelfräser mit konischer Freistellung 0.5° - 2°

Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | VR  | SL | eff.NL | TL  | $\alpha$ | Schaft | Order-No. | Dia | SL | eff.NL | TL | $\alpha$ | Schaft |
|-----------|-----|-----|----|--------|-----|----------|--------|-----------|-----|----|--------|----|----------|--------|
| UBPT02052 | 2.0 | 1   | 3  | 60     | 100 | 0.5°     | 6      |           |     |    |        |    |          |        |
| UBPT02102 | 2.0 | 1   | 3  | 60     | 100 | 1°       | 6      |           |     |    |        |    |          |        |
| UBPT02152 | 2.0 | 1   | 3  | 60     | 100 | 1.5°     | 6      |           |     |    |        |    |          |        |
| UBPT02202 | 2.0 | 1   | 3  | 57     | 100 | 2°       | 6      |           |     |    |        |    |          |        |
| UBPT03052 | 3.0 | 1.5 | 4  | 60     | 100 | 0.5°     | 6      |           |     |    |        |    |          |        |
| UBPT03102 | 3.0 | 1.5 | 4  | 60     | 100 | 1°       | 6      |           |     |    |        |    |          |        |
| UBPT03152 | 3.0 | 1.5 | 4  | 57     | 100 | 1.5°     | 6      |           |     |    |        |    |          |        |
| UBPT03202 | 3.0 | 1.5 | 4  | 43     | 100 | 2°       | 6      |           |     |    |        |    |          |        |
| UBPT04052 | 4.0 | 2   | 5  | 60     | 100 | 0.5°     | 6      |           |     |    |        |    |          |        |
| UBPT04102 | 4.0 | 2   | 5  | 57     | 100 | 1°       | 6      |           |     |    |        |    |          |        |
| UBPT04152 | 4.0 | 2   | 5  | 38     | 100 | 1.5°     | 6      |           |     |    |        |    |          |        |
| UBPT04202 | 4.0 | 2   | 5  | 29     | 100 | 2°       | 6      |           |     |    |        |    |          |        |

## USB VHM Kugelfräser konisch verstärkt mit 1.5° - 5°

Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | VR  | SL | TL  | $\alpha$ | Schaft | Order-No. | Dia | VR | SL | TL  | $\alpha$ | Schaft |
|-----------|-----|-----|----|-----|----------|--------|-----------|-----|----|----|-----|----------|--------|
| USB0203   | 2.0 | 1   | 4  | 75  | 3°       | 6      | USB0605   | 6.0 | 3  | 12 | 100 | 5°       | 8      |
| USB0205   | 2.0 | 1   |    |     |          |        |           |     |    | 12 | 100 | 3°       | 10     |
| USB0315   | 3.0 | 1.5 |    |     |          |        |           |     |    | 12 | 100 | 5°       | 10     |
| USB0303   | 3.0 | 1.5 | 0  | 75  | 3°       | 0      |           |     |    |    |     |          |        |
| USB0305   | 3.0 | 1.5 | 6  | 75  | 5°       | 6      |           |     |    |    |     |          |        |
| USB0415   | 4.0 | 2   | 8  | 100 | 1.5°     | 6      |           |     |    |    |     |          |        |
| USB0405   | 4.0 | 2   | 8  | 75  | 5°       | 6      |           |     |    |    |     |          |        |
| USB0615   | 6.0 | 3   | 12 | 100 | 1.5°     | 8      |           |     |    |    |     |          |        |
| USB0603   | 6.0 | 3   | 12 | 75  | 3°       | 8      |           |     |    |    |     |          |        |

**UB** VHM Kugelfräser HSC Version heavy cutting solution



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | VR  | SL | TL | Schaft | Order-No. | Dia  | VR | SL | TL  | Schaft |
|-----------|-----|-----|----|----|--------|-----------|------|----|----|-----|--------|
| UB0102    | 1.0 |     |    |    |        |           |      |    |    | 50  | 6      |
| UB0152    | 1.0 |     |    |    |        |           |      |    |    | 60  | 8      |
| UB0202    | 2.0 |     |    |    |        |           |      |    |    | 75  | 10     |
| UB0202S   | 2.0 | 1   | 4  | 50 | 4      | UB1202    | 12.0 | 6  | 24 | 75  | 12     |
| UB0302    | 3.0 | 1.5 | 6  | 50 | 6      | UB1602    | 16.0 | 8  | 32 | 100 | 16     |
| UB0302S   | 3.0 | 1.5 | 6  | 50 | 4      |           |      |    |    |     |        |
| UB0402    | 4.0 | 2   | 8  | 50 | 6      |           |      |    |    |     |        |
| UB0402S   | 4.0 | 2   | 8  | 50 | 4      |           |      |    |    |     |        |
| UB0502    | 5.0 | 2.5 | 10 | 50 | 6      |           |      |    |    |     |        |

**HTD** VHM Schafffräser Super-Power 3-Lippen





Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| HTD0203   | 2.0  | 6  | 50  | 4      |           |     |    |    |        |
| HTD0303   | 3.0  | 8  | 50  | 4      |           |     |    |    |        |
| HTD0403   | 4.0  | 11 | 50  | 4      |           |     |    |    |        |
| HTD0503   | 5.0  | 13 | 50  | 6      |           |     |    |    |        |
| HTD0603   | 6.0  | 16 | 50  | 6      |           |     |    |    |        |
| HTD0803   | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| HTD1003   | 10.0 | 25 | 75  | 10     |           |     |    |    |        |
| HTD1203   | 12.0 | 30 | 75  | 12     |           |     |    |    |        |
| HTD1603   | 16.0 | 40 | 100 | 16     |           |     |    |    |        |
| HTD2003   | 20.0 | 45 | 100 | 20     |           |     |    |    |        |

VHM

Power Version heavy cutting solution

UHP

Schaftfräser



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia  | SL | TL  | Schaft | Order-No. | Dia | SL | TL | Schaft |
|-----------|------|----|-----|--------|-----------|-----|----|----|--------|
| UHP0604   | 6.0  | 15 | 50  | 6      |           |     |    |    |        |
| UHP0804   | 8.0  | 20 | 60  | 8      |           |     |    |    |        |
| UHP1004   | 10.0 | 25 | 75  | 10     |           |     |    |    |        |
| UHP1204   | 12.0 | 30 | 75  | 12     |           |     |    |    |        |
| UHP1604   | 16.0 | 40 | 100 | 16     |           |     |    |    |        |
| UHP2004   | 20.0 | 40 | 100 | 20     |           |     |    |    |        |

# URX VHM Eckradiusfräser mit Hinterschliff 4-Lippig



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | ER  | SL | eff.NL | TL  | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|-----------|-----|-----|----|--------|-----|--------|-----------|-----|----|--------|----|--------|
| URX04034  | 4   | 0.3 | 6  | 12     | 50  | 6      |           |     |    |        |    |        |
| URX04054  | 4   | 0.5 | 6  | 12     | 50  | 6      |           |     |    |        |    |        |
| UEX06034  | 6   | 0.3 | 8  | 18     | 50  | 6      |           |     |    |        |    |        |
| URX06054  | 6   | 0.5 | 8  | 18     | 50  | 6      |           |     |    |        |    |        |
| URX06104  | 6   | 1   | 8  | 18     | 50  | 6      |           |     |    |        |    |        |
| URX08034  | 8   | 0.3 | 10 | 24     | 60  | 8      |           |     |    |        |    |        |
| UEX08054  | 8   | 0.5 | 10 | 24     | 60  | 8      |           |     |    |        |    |        |
| URX08104  | 8   | 1   | 10 | 24     | 60  | 8      |           |     |    |        |    |        |
| URX10054  | 10  | 0.5 | 12 | 30     | 75  | 10     |           |     |    |        |    |        |
| URX10104  | 10  | 1   | 12 | 30     | 75  | 10     |           |     |    |        |    |        |
| UEX10204  | 10  | 2   | 12 | 30     | 75  | 10     |           |     |    |        |    |        |
| URX10304  | 10  | 3   | 12 | 30     | 75  | 10     |           |     |    |        |    |        |
| URX12054  | 12  | 0.5 | 15 | 36     | 75  | 12     |           |     |    |        |    |        |
| URX12104  | 12  | 1   | 15 | 36     | 75  | 12     |           |     |    |        |    |        |
| URX16054  | 16  | 0.5 | 24 | 40     | 100 | 16     |           |     |    |        |    |        |
| URX16104  | 16  | 1   | 24 | 40     | 100 | 16     |           |     |    |        |    |        |

# URH VHM Eckradiusfräser mit Hinterschliff 3-Lippig



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | ER  | SL | eff.NL | TL  | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|-----------|-----|-----|----|--------|-----|--------|-----------|-----|----|--------|----|--------|
| URH06053  | 6   | 0.5 | 8  | 30     | 75  | 6      |           |     |    |        |    |        |
| URH08053  | 8   | 0.5 | 10 | 40     | 100 | 8      |           |     |    |        |    |        |
| URH10053  | 10  | 0.5 | 12 | 50     | 100 | 10     |           |     |    |        |    |        |
| URH10103  | 10  | 1   | 12 | 50     | 100 | 10     |           |     |    |        |    |        |
| URH12053  | 12  | 0.5 | 15 | 50     | 100 | 12     |           |     |    |        |    |        |
| URH16103  | 16  | 1   | 24 | 50     | 100 | 16     |           |     |    |        |    |        |



# URV VHM Eckradiusfräser mit Hinterschliff 6-Lippig



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | ER  | SL | eff.NL | TL  | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|-----------|-----|-----|----|--------|-----|--------|-----------|-----|----|--------|----|--------|
| URV06036  | 6   | 0.3 | 8  | 20     | 50  | 6      |           |     |    |        |    |        |
| URV08036  | 8   | 0.3 | 10 | 25     | 60  | 8      |           |     |    |        |    |        |
| URV10056  | 10  | 0.5 | 12 | 30     | 75  | 10     |           |     |    |        |    |        |
| URV12056  | 12  | 0.5 | 15 | 36     | 75  | 12     |           |     |    |        |    |        |
| URV16106  | 16  | 1   | 24 | 40     | 100 | 16     |           |     |    |        |    |        |
| URV20106  | 20  | 1   | 30 | 50     | 100 | 20     |           |     |    |        |    |        |

# RTB VHM Eckradiusfräser ohne Hinterschliff



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia  | ER   | SL | TL | Schaft | Order-No. | Dia  | ER | SL | TL | Schaft |
|-----------|------|------|----|----|--------|-----------|------|----|----|----|--------|
| RTB0305   | 3.0  | 0.5  | 8  | 50 | 3      | RTB1010   | 10.0 | 1  | 30 | 75 | 10     |
| RTB0405   | 4.0  | 0.5  | 10 | 50 | 4      | RTB1020Z  | 10.0 | 2  | 25 | 75 | 10     |
| RTB0505   | 5.0  | 0.5  | 13 | 50 | 6      | RTB1020   | 10.0 | 2  | 30 | 75 | 10     |
| RTB0510   | 5.0  | 1    | 13 | 50 | 6      | RTB1030Z  | 10.0 | 3  | 25 | 75 | 10     |
| RTB0605   | 6.0  | 0.5  | 16 | 50 | 6      | RTB1030   | 10.0 | 3  | 30 | 75 | 10     |
| RTB0610   | 6.0  | 1    | 16 | 50 | 6      | RTB1210   | 12.0 | 1  | 30 | 75 | 12     |
| RTB0805   | 8.0  | 0.5  | 20 | 60 | 8      | RTB1220   | 12.0 | 2  | 30 | 75 | 12     |
| RTB0810   | 8.0  | 1    | 20 | 60 | 8      | RTB1230   | 12.0 | 3  | 30 | 75 | 12     |
| RTB1005Z  | 10.0 | 0.05 | 25 | 75 | 10     |           |      |    |    |    |        |
| RTB1005   | 10.0 | 0.5  | 30 | 75 | 10     |           |      |    |    |    |        |
| RTB1010Z  | 10.0 | 1    | 25 | 75 | 10     |           |      |    |    |    |        |

# UHR VHM Eckradiusfräser mit Hinterschliff überlange Ausführung



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia  | ER  | SL | eff.NL | TL  | Schaft | Order-No. | Dia | SL | eff.NL | TL | Schaft |
|-----------|------|-----|----|--------|-----|--------|-----------|-----|----|--------|----|--------|
| UHR0605   | 6.0  | 0.5 | 8  | 30     | 75  | 6      |           |     |    |        |    |        |
| UHR0805   | 8.0  | 0.5 | 10 | 40     | 100 | 8      |           |     |    |        |    |        |
| UHR1005   | 10.0 | 0.5 | 12 | 50     | 100 | 10     |           |     |    |        |    |        |
| UHR1010   | 10.  | 1   | 12 | 50     | 100 | 10     |           |     |    |        |    |        |
| UHR1205   | 12.0 | 0.5 | 15 | 50     | 100 | 12     |           |     |    |        |    |        |
| UHR1610   | 16.0 | 1   | 24 | 50     | 100 | 16     |           |     |    |        |    |        |

# UOR VHM Eckradiusfräser mit Hinterschliff



Super Micro-Grain universal für verschiedenste Materialien bis 60 HRC



| Order-No. | Dia | ER  | SL  | eff.NL | TL  | Schaft | Order-No. | Dia  | ER  | SL  | eff.NL | TL  | Schaft |
|-----------|-----|-----|-----|--------|-----|--------|-----------|------|-----|-----|--------|-----|--------|
| UOR0203   | 2.0 | 0.3 | 0.8 | 5      | 50  | 6      | UOR0615L  | 6.0  | 1.5 | 2.5 | 13     | 100 | 6      |
| UOR0205   | 2.0 | 0.5 | 0.8 | 5      | 50  | 6      | UOR0810   | 8.0  | 1   | 3.5 | 16     | 60  | 8      |
| UOR0308   | 3.0 | 0.8 | 1.2 | 8      | 50  | 6      | UOR0810L  | 8.0  | 1   | 3.5 | 16     | 100 | 8      |
| UOR0310   | 3.0 | 2   | 1.2 | 8      | 50  | 6      | UOR0820   | 8.0  | 2   | 3.5 | 16     | 60  | 8      |
| UOR0405   | 4.0 | 0.5 | 1.6 | 10     | 50  | 6      | UOR0820L  | 8.0  | 2   | 3.5 | 16     | 100 | 8      |
| UOR0405L  | 4.0 | 0.5 | 1.6 | 10     | 75  | 6      | UOR1010   | 10.0 | 1   | 4   | 20     | 75  | 10     |
| UOR0410   | 4.0 | 1   | 1.6 | 10     | 50  | 6      | UOR1010L  | 10.0 | 1   | 4   | 20     | 100 | 10     |
| UOR0410L  | 4.0 | 1   | 1.6 | 10     | 75  | 6      | UOR1020   | 10.0 | 2   | 4   | 20     | 75  | 10     |
| UOR0610   | 6.0 | 1   | 2.5 | 13     | 50  | 6      | UOR1020L  | 10.0 | 2   | 4   | 20     | 100 | 10     |
| UOR0610M  | 6.0 | 1   | 2.5 | 13     | 75  | 6      | UOR1220   | 12.0 | 2   | 5   | 25     | 75  | 12     |
| UOR0610L  | 6.0 | 1   | 2.5 | 13     | 100 | 6      | UOR1220L  | 12.0 | 2   | 5   | 25     | 100 | 12     |
| UOR0615   | 6.0 | 1.5 | 2.5 | 13     | 50  | 6      | UOR1230   | 12.0 | 3   | 5   | 25     | 75  | 12     |
| UOR0615M  | 6.0 | 1.5 | 2.5 | 13     | 75  | 6      | UOR1230L  | 12.0 | 3   | 5   | 25     | 100 | 12     |



