

Spezielle Konditionen nur bei Angabe des folgenden Aktionscodes: 02-1/2024-DE.

# AKTION WSP-FRÄSEN

Immer das optimale Frässystem für Ihre spezifische Anwendung!



**Volker W.**

Product Manager Indexable Milling & Drilling

**FMA17, FMP17, FME17, EMP09, XMR01**  
**1 € / mm ø bis 80** beim Kauf von 30 WSP\*  
**/ mm ø ab 100–160** beim Kauf von 50 WSP\*

\*Angebot ist gültig bis zum 30. Juni 2024 und nur solange der Vorrat reicht! Preise für WSP gemäß Ihrer Standardkonditionen bei ZCC-CT.

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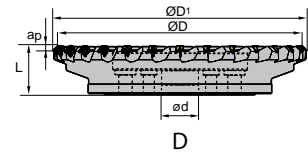
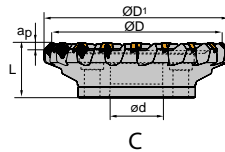
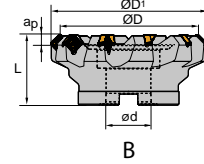
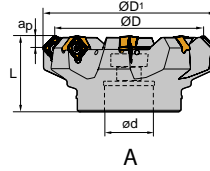
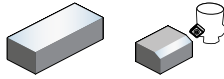
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## Planfräser

FMA17 Kr: 45°



| Artikel                | * | Lager |   | Abmessungen [mm] |                 |    |    |                    | Zähne | Aufnahme | kg     | WSP  |
|------------------------|---|-------|---|------------------|-----------------|----|----|--------------------|-------|----------|--------|---|
|                        |   | R     | L | ØD               | ØD <sub>1</sub> | ød | L  | a <sub>p max</sub> |       |          |        |   |
| FMA17-050-A22-SN12-04C | * | ○     | ○ | 50               | 65              | 22 | 40 | 6,5                | 4     | A        | 0,384  | SNGX1205  |
| FMA17-050-A22-SN12-06C | * | ●     |   | 50               | 65              | 22 | 40 | 6,5                | 6     | A        | 0,381  |   |
| FMA17-063-A22-SN12-06C | * | ●     | ○ | 63               | 78              | 22 | 50 | 6,5                | 6     | A        | 0,717  |   |
| FMA17-080-A27-SN12-07C | * | ●     | ○ | 80               | 95              | 27 | 63 | 6,5                | 7     | A        | 1,085  |   |
| FMA17-100-A32-SN12-08  |   |       | ○ | 100              | 115             | 32 | 63 | 6,5                | 8     | A        | 1,558  |   |
| FMA17-063-A22-SN12-08C | * | ●     |   | 63               | 78              | 22 | 50 | 6,5                | 8     | A        | 0,717  |   |
| FMA17-100-A32-SN12-08C | * | ●     |   | 100              | 115             | 32 | 63 | 6,5                | 8     | A        | 1,558  |   |
| FMA17-080-A27-SN12-10C | * | ●     |   | 80               | 95              | 27 | 63 | 6,5                | 10    | A        | 1,105  |   |
| FMA17-100-A32-SN12-12C | * | ●     |   | 100              | 115             | 32 | 63 | 6,5                | 12    | A        | 1,656  |   |
| FMA17-125-B40-SN12-10  |   | ●     | ○ | 125              | 140             | 40 | 63 | 6,5                | 10    | B        | 3,012  |   |
| FMA17-125-B40-SN12-16  |   | ●     |   | 125              | 140             | 40 | 63 | 6,5                | 16    | B        | 3,103  |   |
| FMA17-160-C40-SN12-12  |   | ●     | ○ | 160              | 175             | 40 | 63 | 6,5                | 12    | C        | 4,358  |   |
| FMA17-200-C60-SN12-18  |   | ●     |   | 200              | 215             | 60 | 63 | 6,5                | 18    | C        | 6,337  |   |
| FMA17-160-C40-SN12-20  |   | ○     |   | 160              | 175             | 40 | 63 | 6,5                | 20    | C        | 4,6    |   |
| FMA17-250-C60-SN12-20  |   | ●     |   | 250              | 265             | 60 | 63 | 6,5                | 20    | C        | 12,36  |   |
| FMA17-200-C60-SN12-24  |   | ○     |   | 200              | 215             | 60 | 63 | 6,5                | 24    | C        | 6,569  |   |
| FMA17-315-D60-SN12-22  |   | ○     |   | 315              | 330             | 60 | 80 | 6,5                | 22    | D        | 21,224 |   |
| FMA17-400-D60-SN12-28  |   | ○     |   | 400              | 415             | 60 | 80 | 6,5                | 28    | D        | 39,535 |   |

● Ab Lager ○ Auf Anfrage

\* Mit Innenkühlung

A

Drehen

B

Fräsen

C





Bohren

D

Technische Information

E

Index

| Ersatzteile   |                 |                     |                     |                     |
|---|-----------------|---------------------|---------------------|---------------------|
|   | WSP             | SNGX1205            | SNGX1205            | SNGX1205            |
|   | ØD              | 50-78               | 80-180              | 200-400             |
|  | Schraube (WSP)  | IRM4×10<br>(3,4 Nm) | IRM4×10<br>(3,4 Nm) | IRM4×10<br>(3,4 Nm) |
|  | Schlüssel (WSP) | WT15IP              |                     |                     |
|  | Schlüssel (WSP) |                     | WT15IS              |                     |
|  | Schlüssel (WSP) |                     |                     | WT15IT              |



A

Drehen

B

Fräsen

C




Bohren

D

Technische  
Information

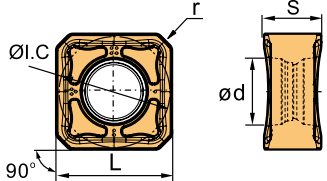












E

Index

-  Gute Bearbeitungsbedingungen
-  Normale Bearbeitungsbedingungen
-  Ungünstige Bearbeitungsbedingungen

| SN**  | L    | I.C  | S   | d   |
|-------|------|------|-----|-----|
| 12 05 | 12,7 | 12,7 | 6,5 | 5,9 |

**Fräs-WSP**

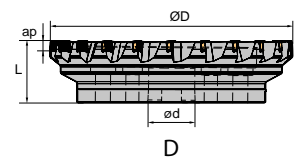
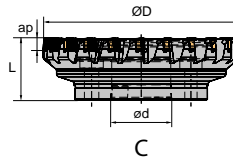
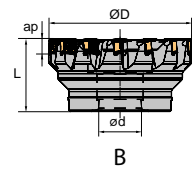
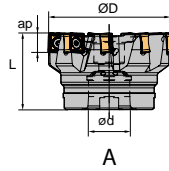
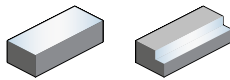
| SN** Negative WSP   |                |          | HC <sup>1</sup> (CVD)   | HC <sup>1</sup> (PVD)   | HT  | HC <sup>2</sup> | HW |
|---|----------------|----------|---|---|---|-----------------|----|
|   |                | <b>P</b> |  |    |   |                 |    |
|   |                | <b>M</b> |   |   |   |                 |    |
|   |                | <b>K</b> |  |   |   |                 |    |
|   |                | <b>N</b> |   |   |   |                 |    |
|   |                | <b>S</b> |   |   |   |                 |    |
|   |                | <b>H</b> |   |   |  |                 |    |
|   | ISO            | r        | YBD252  | YBG205H<br>YBS303   |   |                 |    |
|  | SNGX1205ANN-GH | -        | ●   | ●   |   |                 |    |
|  | SNGX1205ANN-GL | -        | ●   | ●   |   |                 |    |
|  | SNGX1205ANN-GM | -        | ●   | ● ●   |   |                 |    |
|  | SNMX120512-GH  | 1,2      | ●   | ●   |   |                 |    |
|  | SNMX120512-GM  | 1,2      | ●   | ●   |   |                 |    |

● Ab Lager ○ Auf Anfrage

HC<sup>1</sup> Beschichtetes Hartmetall  
 HT Unbeschichtetes Cermet  
 HC<sup>2</sup> Beschichtetes Cermet  
 HW Unbeschichtetes Hartmetall

## Planfräser

FMP17 Kr: 88°



| Artikel                | * | Lager |   | Abmessungen [mm] |    |    |                    | Zähne | Aufnahme | kg     | WSP      |
|------------------------|---|-------|---|------------------|----|----|--------------------|-------|----------|--------|----------|
|                        |   | R     | L | ØD               | ød | L  | a <sub>p max</sub> |       |          |        |          |
| FMP17-050-A22-SN12-04C | * | ○     | ○ | 50               | 22 | 40 | 10,5               | 4     | A        | 0,296  | SNGX1205 |
| FMP17-050-A22-SN12-05C | * | ●     |   | 50               | 22 | 40 | 10,5               | 5     | A        | 0,288  |          |
| FMP17-063-A22-SN12-05C | * | ●     | ○ | 63               | 22 | 50 | 10,5               | 5     | A        | 0,462  |          |
| FMP17-063-A22-SN12-07C | * | ●     |   | 63               | 22 | 50 | 10,5               | 7     | A        | 0,466  |          |
| FMP17-080-A27-SN12-07C | * | ●     | ○ | 80               | 27 | 63 | 10,5               | 7     | A        | 1      |          |
| FMP17-100-A32-SN12-08  |   |       | ○ | 100              | 32 | 63 | 10,5               | 8     | A        | 1,577  |          |
| FMP17-100-A32-SN12-08C | * | ●     |   | 100              | 32 | 63 | 10,5               | 8     | A        | 1,577  |          |
| FMP17-080-A27-SN12-09C | * | ●     |   | 80               | 27 | 63 | 10,5               | 9     | A        | 1,02   |          |
| FMP17-100-A32-SN12-11C | * | ●     |   | 100              | 32 | 63 | 10,5               | 11    | A        | 1,592  |          |
| FMP17-125-B40-SN12-10  |   | ●     | ○ | 125              | 40 | 63 | 10,5               | 10    | B        | 3,043  |          |
| FMP17-125-B40-SN12-14  |   | ●     |   | 125              | 40 | 63 | 10,5               | 14    | B        | 3,033  |          |
| FMP17-160-C40-SN12-12  |   | ●     | ○ | 160              | 40 | 63 | 10,5               | 12    | C        | 4,344  |          |
| FMP17-200-C60-SN12-14  |   | ●     |   | 200              | 60 | 63 | 10,5               | 14    | C        | 6,552  |          |
| FMP17-160-C40-SN12-18  |   | ○     |   | 160              | 40 | 63 | 10,5               | 18    | C        | 4,431  |          |
| FMP17-250-C60-SN12-18  |   | ○     |   | 250              | 60 | 63 | 10,5               | 18    | C        | 13,025 |          |
| FMP17-200-C60-SN12-22  |   | ○     |   | 200              | 60 | 63 | 10,5               | 22    | C        | 6,711  |          |
| FMP17-315-D60-SN12-22  |   | ○     |   | 315              | 60 | 80 | 10,5               | 22    | D        | 21,935 |          |
| FMP17-400-D60-SN12-28  |   | ○     |   | 400              | 60 | 80 | 10,5               | 28    | D        | 41,661 |          |

● Ab Lager ○ Auf Anfrage

\* Mit Innenkühlung

A

Drehen

B

Fräsen

C





Bohren

D

Technische Information




E

Index

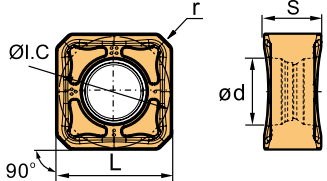












| Ersatzteile   |                 |                     |                     |                     |
|---|-----------------|---------------------|---------------------|---------------------|
|   | WSP             | SNGX1205            | SNGX1205            | SNGX1205            |
|   | ØD              | 50-63               | 80-180              | 200-400             |
|  | Schraube (WSP)  | IRM4×10<br>(3,4 Nm) | IRM4×10<br>(3,4 Nm) | IRM4×10<br>(3,4 Nm) |
|  | Schlüssel (WSP) | WT15IP              |                     |                     |
|  | Schlüssel (WSP) |                     | WT15IS              |                     |
|  | Schlüssel (WSP) |                     |                     | WT15IT              |



**Fräs-WSP**

-  Gute Bearbeitungsbedingungen
-  Normale Bearbeitungsbedingungen
-  Ungünstige Bearbeitungsbedingungen

| SN**  | L    | I.C  | S   | d   |
|-------|------|------|-----|-----|
| 12 05 | 12,7 | 12,7 | 6,5 | 5,9 |

| SN** Negative WSP   |                |          | HC <sup>1</sup> (CVD)   | HC <sup>1</sup> (PVD)   | HT  | HC <sup>2</sup> | HW |
|---|----------------|----------|---|---|---|-----------------|----|
|   |                | <b>P</b> |  |    |   |                 |    |
|   |                | <b>M</b> |   |   |   |                 |    |
|   |                | <b>K</b> |  |   |   |                 |    |
|   |                | <b>N</b> |   |   |   |                 |    |
|   |                | <b>S</b> |   |   |   |                 |    |
|   |                | <b>H</b> |   |   |  |                 |    |
|   | ISO            | r        | YBD252  | YBG205H<br>YBS303   |   |                 |    |
|  | SNGX1205PNN-GH | -        | ●   | ●   |   |                 |    |
|  | SNGX1205PNN-GL | -        | ●   | ●   |   |                 |    |
|  | SNGX1205PNN-GM | -        | ●   | ● ●   |   |                 |    |
|  | SNMX120512-GH  | 1,2      | ●   | ●   |   |                 |    |
|  | SNMX120512-GM  | 1,2      | ●   | ●   |   |                 |    |

● Ab Lager ○ Auf Anfrage

HC<sup>1</sup> Beschichtetes Hartmetall  
 HT Unbeschichtetes Cermet  
 HC<sup>2</sup> Beschichtetes Cermet  
 HW Unbeschichtetes Hartmetall

**A**

Drehen

**B**

Fräsen

**C**

Bohren

**D**

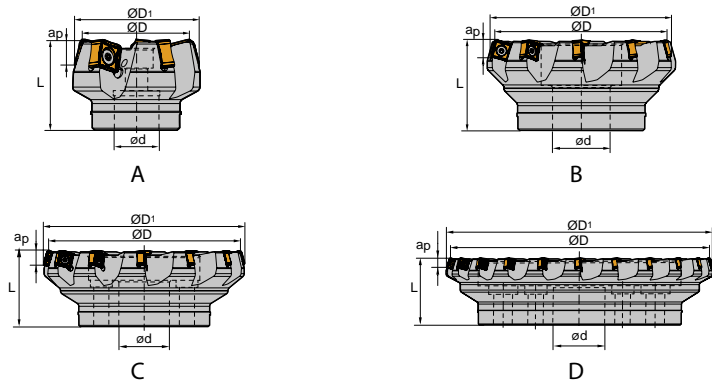
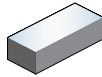
Technische Information


**E**

Index

## Planfräser





FME17 Kr: 75°



| Artikel                | * | Lager |   | Abmessungen [mm] |                 |    |    |                    | Zähne | Aufnahme | kg    | WSP  |
|------------------------|---|-------|---|------------------|-----------------|----|----|--------------------|-------|----------|-------|---|
|                        |   | R     | L | ØD               | ØD <sub>1</sub> | ød | L  | a <sub>p max</sub> |       |          |       |   |
| FME17-050-A22-SN12-04C | * | ○     | ○ | 50               | 60              | 22 | 40 | 8                  | 4     | A        | 0,361 |   |
| FME17-050-A22-SN12-05C | * | ●     |   | 50               | 60              | 22 | 40 | 8                  | 5     | A        | 0,337 |   |
| FME17-063-A22-SN12-05C | * | ○     | ○ | 63               | 73              | 22 | 50 | 8                  | 5     | A        | 0,52  |   |
| FME17-080-A27-SN12-06C | * | ●     | ○ | 80               | 90              | 27 | 63 | 8                  | 6     | A        | 1,101 |   |
| FME17-063-A22-SN12-07C | * | ●     |   | 63               | 73              | 22 | 50 | 8                  | 7     | A        | 0,53  |   |
| FME17-100-A32-SN12-08C | * | ●     | ○ | 100              | 110             | 32 | 63 | 8                  | 8     | A        | 1,663 |   |
| FME17-080-A27-SN12-09C | * | ●     |   | 80               | 90              | 27 | 63 | 8                  | 9     | A        | 1,112 |   |
| FME17-100-A32-SN12-11C | * | ●     |   | 100              | 110             | 32 | 63 | 8                  | 11    | A        | 1,577 | SNGX1205ENN   |
| FME17-125-B40-SN12-10  |   | ●     | ○ | 125              | 135             | 40 | 63 | 8                  | 10    | B        | 3,099 | SNMX120512  |
| FME17-125-B40-SN12-14  |   | ●     |   | 125              | 170             | 40 | 63 | 8                  | 14    | B        | 3,145 |   |
| FME17-160-C40-SN12-12  |   | ●     | ○ | 160              | 170             | 40 | 63 | 8                  | 12    | C        | 4,535 |   |
| FME17-200-C60-SN12-14  |   | ○     | ○ | 200              | 210             | 60 | 63 | 8                  | 18    | C        | 6,45  |   |
| FME17-250-C60-SN12-18  |   | ○     |   | 250              | 260             | 60 | 63 | 8                  | 18    | C        | 12,98 |   |
| FME17-160-C40-SN12-18  |   | ●     |   | 160              | 210             | 40 | 63 | 8                  | 20    | C        | 4,647 |   |
| FME17-200-C60-SN12-22  |   | ○     |   | 200              | 215             | 60 | 63 | 8                  | 22    | C        | 6,552 |   |
| FME17-315-D60-SN12-22  |   | ○     |   | 315              | 325             | 60 | 80 | 8                  | 22    | D        | 21,98 |   |

● Ab Lager ○ Auf Anfrage

\* Mit Innenkühlung

| Ersatzteile   |                 | WSP | SNGX1205ENN         | SNGX1205ENN         | SNGX1205ENN         |
|---|-----------------|-----|---------------------|---------------------|---------------------|
|   |                 | ØD  | 50-75               | 80-180              | 200-400             |
|  | Schraube (WSP)  |     | IRM4×10<br>(3,4 Nm) | IRM4×10<br>(3,4 Nm) | IRM4×10<br>(3,4 Nm) |
|  | Schlüssel (WSP) |     | WT15IP              |                     |                     |
|  | Schlüssel (WSP) |     |                     | WT15IS              |                     |
|  | Schlüssel (WSP) |     |                     |                     | WT15IT              |



A

Drehen

B

Fräsen

C




Bohren

D

Technische Information

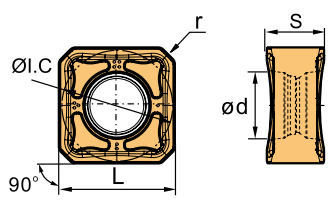



























































E

Index

-  Gute Bearbeitungsbedingungen
-  Normale Bearbeitungsbedingungen
-  Ungünstige Bearbeitungsbedingungen

|       |      |      |     |     |
|-------|------|------|-----|-----|
| SN**  | L    | I.C  | S   | d   |
| 12 05 | 12,7 | 12,7 | 6,5 | 5,9 |

**Fräs-WSP**

| SN** Fräs-WSP   |                |          | HC <sup>1</sup> (CVD)   |   |   |   |   |  | HC <sup>1</sup> (PVD)   |   |   |   |   |   | HT  | HC <sup>2</sup> | HW  |   |        |        |        |        |        |         |       |       |  |
|---|----------------|----------|---|---|---|---|---|--|---|---|---|---|---|---|---|-----------------|---|---|--------|--------|--------|--------|--------|---------|-------|-------|--|
|    |                | <b>P</b> |  |  |  |  |  |   |   |  |  |  |  |  |  |                 |   |   |        |        |        |        |        |         |       |       |  |
|   |                | <b>M</b> |  |  |  |  |  |   |   |  |  |  |  |  |  |                 |   |   |        |        |        |        |        |         |       |       |  |
|   |                | <b>K</b> |   |   |   |   |  |   |    |   |   |   |   |  |   |                 |  |   |        |        |        |        |        |         |       |       |  |
|   |                | <b>N</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |    |        |        |        |        |        |         |       |       |  |
|   |                | <b>S</b> |   |  |   |  |   |  |   |   |  |  |  |  |  |                 |   |   |        |        |        |        |        |         |       |       |  |
|   |                | <b>H</b> |   |   |   |   |   |  |   |   |   |  |   |   |   |                 |   |   |        |        |        |        |        |         |       |       |  |
| ISO   |                | r        | YBC302  | YBC301  | YBM253  | YBC401  | YBM251  | YBM351   | YBD152  | YBD252  | YBD203  | YBG101  | YBG102  | YBG202  | YBG212  | YBS203          | YBG205  | YBG205H   | YB9320 | YBG302 | YBS303 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |  |
|    | SNGX1205ENN-GH | 0,8      |   |   |   |   |   |  |    |   |   |   |   |   |   |                 |  |   |        |        |        |        |        |         |       |       |  |
|    | SNGX1205ENN-GL | 0,8      |   |   |   |   |   |  |   |   |   |   |   |   |   |                 |   |    |        |        |        |        |        |         |       |       |  |
|   | SNGX1205ENN-GM | 0,8      |   |   |   |   |   |  |   |   |   |   |   |   |   |                 |   |   |        |        |        |        |        |         |       |       |  |
|  | SNMX120512-GH  | 1,2      |   |   |   |   |   |  |  |   |   |   |   |   |   |                 |   |  |        |        |        |        |        |         |       |       |  |
|  | SNMX120512-GM  | 1,2      |   |   |   |   |   |  |  |   |   |   |   |   |   |                 |   |  |        |        |        |        |        |         |       |       |  |

● Ab Lager ○ Auf Anfrage

HC<sup>1</sup> Beschichtetes Hartmetall  
 HT Unbeschichtetes Cermet  
 HC<sup>2</sup> Beschichtetes Cermet  
 HW Unbeschichtetes Hartmetall

**A**

Drehen

**B**

Fräsen

**C**

Bohren

**D**

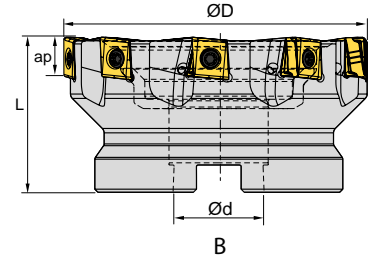
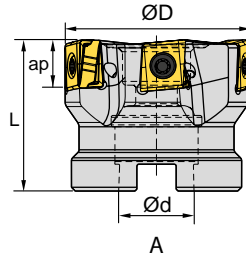
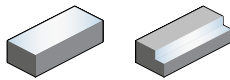
Technische Information


**E**

Index

## Eckfräser

EMP09 Kr: 90°







| Artikel                | * | Lager | Abmessungen [mm] |    |    |                    | Zähne | Aufnahme | kg   | WSP  |
|------------------------|---|-------|------------------|----|----|--------------------|-------|----------|------|---|
|                        |   |       | ØD               | ød | L  | a <sub>p max</sub> |       |          |      |   |
| EMP09-040-A16-LN08-05C | * | ●     | 40               | 16 | 40 | 8                  | 5     | A        |      | LNKT0804PNR-GM  |
| EMP09-050-A22-LN08-06C | * | ●     | 50               | 22 | 40 | 8                  | 6     | A        |      |   |
| EMP09-063-A22-LN08-08C | * | ●     | 63               | 22 | 40 | 8                  | 8     | A        |      |   |
| EMP09-080-A27-LN08-10C | * | ○     | 80               | 27 | 50 | 8                  | 10    | A        |      | LNKT1206PNR-GM  |
| EMP09-040-A16-LN12-04C | * | ●     | 40               | 16 | 40 | 11,5               | 4     | A        | 0,19 |   |
| EMP09-050-A22-LN12-05C | * | ●     | 50               | 22 | 40 | 11,5               | 5     | A        | 0,33 |   |
| EMP09-063-A22-LN12-06C | * | ●     | 63               | 22 | 40 | 11,5               | 6     | A        | 0,53 | LNKT1607PNR-GM  |
| EMP09-080-A27-LN12-07C | * | ●     | 80               | 27 | 50 | 11,5               | 7     | A        | 1,18 |   |
| EMP09-100-B32-LN12-09C | * | ●     | 100              | 32 | 50 | 11,5               | 9     | B        | 1,62 |   |
| EMP09-125-B40-LN12-11C | * | ●     | 125              | 40 | 63 | 11,5               | 11    | B        | 3,25 |   |
| EMP09-080-A27-LN16-06C | * | ●     | 80               | 27 | 50 | 15                 | 6     | A        |      | LNKT1607PNR-GM  |
| EMP09-100-B32-LN16-08C | * | ●     | 100              | 32 | 50 | 15                 | 8     | B        |      |   |
| EMP09-125-B40-LN16-10C | * | ●     | 125              | 40 | 63 | 15                 | 10    | B        |      |   |
| EMP09-160-B40-LN16-12C | * | ●     | 160              | 40 | 63 | 15                 | 12    | B        |      |   |
| EMP09-200-C60-LN16-16  |   | ○     | 200              | 60 | 70 | 15                 | 16    | C        |      |   |
| EMP09-250-C60-LN16-12  |   | ○     | 250              | 60 | 70 | 15                 | 12    | C        |      |   |
| EMP09-315-D60-LN16-16  |   | ○     | 315              | 60 | 80 | 15                 | 16    | D        |      |   |

● Ab Lager ○ Auf Anfrage

\* Mit Innenkühlung

### Ersatzteile

|   | WSP               | LNKT0804PNR-GM      | LNKT1206PNR-GM       | LNKT1607PNR-GM       |
|---|-------------------|---------------------|----------------------|----------------------|
|   | ØD                | 40-80               | 40-125               | 80-360               |
|  | Schraube (Pratze) | I60M3×7<br>(1,8 Nm) | I60M4×12<br>(3,4 Nm) |                      |
|  | Schraube (WSP)    |                     |                      | I60M5×17<br>(6,7 Nm) |
|  | Schlüssel         | WT10IS              | WT15IS               |                      |
|  | Schlüssel (WSP)   |                     |                      | WT20IS               |

A

Drehen

B

Fräsen

C

Bohren

D




Technische Information

E

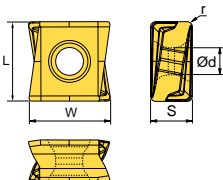


Index



| LNKT         | L     | S    |
|--------------|-------|------|
| <b>08 04</b> | 8,75  | 4,45 |
| <b>12 06</b> | 12,7  | 6,75 |
| <b>16 07</b> | 16,05 | 7,35 |

-  Gute Bearbeitungsbedingungen
-  Normale Bearbeitungsbedingungen
-  Ungünstige Bearbeitungsbedingungen

**Fräs-WSP**

| LN** Fräs-WSP   |                  |     | HC <sup>1</sup> (CVD) |        |        |        |        |        | HC <sup>1</sup> (PVD) |        |        |        |        |        | HT     | HC <sup>2</sup> | HW     |        |        |        |        |        |         |       |       |
|---|------------------|-----|-----------------------|--------|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
|   |                  |     | P                     | M      | K      | N      | S      | H      |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
|  |                  |     |                       |        |        |        |        |        |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
|   |                  |     |                       |        |        |        |        |        |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
|   |                  |     |                       |        |        |        |        |        |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
|   |                  |     |                       |        |        |        |        |        |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
|   |                  |     |                       |        |        |        |        |        |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
|   |                  |     |                       |        |        |        |        |        |                       |        |        |        |        |        |        |                 |        |        |        |        |        |        |         |       |       |
| ISO   |                  | W   | r                     | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351                | YBD152 | YBD252 | YBG101 | YBG102 | YBG202 | YBG212 | YBS203          | YBG205 | YB9320 | YBG302 | YBS303 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
|  | LNKT080404PNR-GL | 8,5 | 0,4                   |        |        |        |        |        |                       | ●      |        |        |        |        |        |                 |        | ●      | ●      |        |        |        |         |       |       |
|   | LNKT120608PNR-GL | 13  | 0,8                   |        |        |        |        |        |                       | ●      |        |        |        |        |        |                 |        | ●      | ●      |        |        |        |         |       |       |
|   | LNKT160708PNR-GL | 15  | 0,8                   |        |        |        |        |        |                       | ●      |        |        |        |        |        |                 |        | ●      | ●      |        |        |        |         |       |       |
|  | LNKT080404PNR-GM | 8,5 | 0,4                   |        |        |        | ●      |        |                       |        |        |        |        |        |        |                 |        | ●      |        |        |        |        |         |       |       |
|   | LNKT120608PNR-GM | 13  | 0,8                   |        |        |        | ●      |        |                       | ●      |        |        |        |        |        |                 |        | ●      |        |        |        |        |         |       |       |
|   | LNKT160708PNR-GM | 15  | 0,8                   |        |        |        | ●      |        | ○                     |        |        |        |        |        |        |                 |        | ●      |        |        |        |        |         |       |       |

● Ab Lager ○ Auf Anfrage

HC<sup>1</sup> Beschichtetes Hartmetall  
 HT Unbeschichtetes Cermet  
 HC<sup>2</sup> Beschichtetes Cermet  
 HW Unbeschichtetes Hartmetall

**A**

Drehen

**B**

Fräsen

**C**

Bohren

**D**

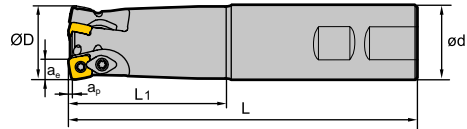
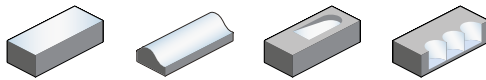
Technische Information

**E**

Index

## Hochvorschubfräser

XMR01 Kr: 15°



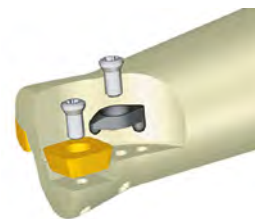
S Typ WSP, Weldon Schaft

| Artikel                 | * | Lager | Abmessungen [mm] |    |     |      |                |     | Zähne | kg   | WSP      |
|-------------------------|---|-------|------------------|----|-----|------|----------------|-----|-------|------|----------|
|                         |   |       | ØD               | ød | ap  | ae   | L <sub>1</sub> | L   |       |      |          |
| XMR01-020-XP20-SD06-04C | * | ○     | 20               | 20 | 0,8 | 5,8  | 50             | 130 | 4     | 0,24 | SDMT06T2 |
| XMR01-025-XP25-SD06-03C | * | ○     | 25               | 25 | 0,8 | 5,8  | 60             | 140 | 3     | 0,46 |          |
| XMR01-025-XP25-SD06-05C | * | ○     | 25               | 25 | 0,8 | 5,8  | 60             | 140 | 5     | 0,44 |          |
| XMR01-032-XP32-SD06-06C | * | ○     | 32               | 32 | 0,8 | 5,8  | 70             | 150 | 6     |      | SDMT09T3 |
| XMR01-025-XP25-SD09-02  |   | ○     | 25               | 25 | 1,4 | 8,8  | 60             | 140 | 2     | 0,5  |          |
| XMR01-032-XP32-SD09-03C | * | ○     | 32               | 32 | 1,4 | 8,8  | 70             | 150 | 3     | 0,8  |          |
| XMR01-035-XP32-SD09-03  |   | ○     | 35               | 32 | 1,4 | 8,8  | 70             | 150 | 3     | 0,8  | SDMT1204 |
| XMR01-040-XP40-SD12-03  |   | ○     | 40               | 40 | 1,8 | 11,7 | 70             | 150 | 3     | 1,3  |          |
| XMR01-040-XP40-SD12-03C | * | ○     | 40               | 40 | 1,8 | 11,7 | 70             | 150 | 3     | 1,2  |          |
| XMR01-040-XP40-SD15-02  |   | ○     | 40               | 40 | 2,2 | 14   | 70             | 200 | 2     | 1,6  | SDMT1505 |

● Ab Lager ○ Auf Anfrage

\* Mit Innenkühlung

| Ersatzteile |                    | WSP | SDMT06T2                | SDMT09T3                 | SDMT1204              | SDMT1505             |
|-------------|--------------------|-----|-------------------------|--------------------------|-----------------------|----------------------|
|             |                    | ØD  | 20-63                   | 25-63                    | 32-100                | 40-160               |
|             | Pratze             |     |                         | WD-204                   | WD-204                | WD-208               |
|             | Schraube (Pratze)  |     |                         | I60M4×8,4<br>(3,4 Nm)    | I60M4×8,4<br>(3,4 Nm) | I60M5×13<br>(6,7 Nm) |
|             | Schraube (WSP)     |     | I60M2,2×5,5<br>(0,8 Nm) |                          | I60M4×8,4<br>(3,4 Nm) | I60M5×13<br>(6,7 Nm) |
|             | Schraube (WSP)     |     |                         | I60M3,5×08TT<br>(2,7 Nm) |                       |                      |
|             | Schlüssel (Pratze) |     |                         | WT15IP                   | WT15IP                | WT20IP               |
|             | Schlüssel (WSP)    |     | WT07IP                  | WT10IP                   | WT15IP                | WT20IP               |



| SDMT  | L      | I.C    | S    | d   |
|-------|--------|--------|------|-----|
| 06 T2 | 6,35   | 6,35   | 2,58 | 5,5 |
| 09 T3 | 9,525  | 9,525  | 3,97 | 4   |
| 12 04 | 12,7   | 12,7   | 4,76 | 4,4 |
| 15 05 | 15,875 | 15,875 | 5,56 | 5,5 |

- Gute Bearbeitungsbedingungen
- Normale Bearbeitungsbedingungen
- Ungünstige Bearbeitungsbedingungen

**Fräs-WSP**

| SD** Fräs-WSP |          | HC <sup>1</sup> (CVD) |  |  |  |  |  | HC <sup>1</sup> (PVD) |  |  |  |  | HT | HC <sup>2</sup> | HW |  |
|---------------|----------|-----------------------|--|--|--|--|--|-----------------------|--|--|--|--|----|-----------------|----|--|
|               | <b>P</b> |                       |  |  |  |  |  |                       |  |  |  |  |    |                 |    |  |
|               | <b>M</b> |                       |  |  |  |  |  |                       |  |  |  |  |    |                 |    |  |
|               | <b>K</b> |                       |  |  |  |  |  |                       |  |  |  |  |    |                 |    |  |
|               | <b>N</b> |                       |  |  |  |  |  |                       |  |  |  |  |    |                 |    |  |
|               | <b>S</b> |                       |  |  |  |  |  |                       |  |  |  |  |    |                 |    |  |
|               | <b>H</b> |                       |  |  |  |  |  |                       |  |  |  |  |    |                 |    |  |

| ISO |               | r   | α  | YBC302 | YBC301 | YBC401 | YBM253 | YBM251 | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YBG202 | YBG212 | YBS203 | YBG205 | YB9320 | YBG302 | YBS303 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |
|-----|---------------|-----|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
|     | SDMT06T208-DM | 0,8 | 15 |        |        |        |        |        | ○      |        |        |        |        | ○      | ○      |        |        |        |        | ○      |        |        |         |       |       |
|     | SDMT09T312-DM | 1,2 | 15 | ●      |        |        |        | ●      | ○      |        |        |        |        | ○      | ○      |        |        |        | ●      |        |        |        |         |       |       |
|     | SDMT120412-DM | 1,2 | 15 | ●      |        |        |        | ●      | ●      |        |        |        |        | ○      | ○      |        |        |        |        |        |        |        |         |       |       |
|     | SDMT150520-DM | 2   | 15 |        |        |        |        |        |        |        |        |        |        | ○      |        |        |        |        |        |        |        |        |         |       |       |
|     | SDMT09T312-NM |     |    |        |        |        | ●      |        |        |        |        |        |        |        | ○      | ●      |        |        |        | ●      |        |        |         |       |       |
|     | SDMT120412-NM |     |    |        |        |        | ●      |        |        |        |        |        |        |        | ○      | ●      | ●      | ●      |        | ●      |        |        |         |       |       |
|     | SDMT06T208-PM | 0,8 | 15 | ●      |        | ●      |        |        |        |        |        |        |        |        |        | ○      | ●      |        |        | ○      |        |        |         |       |       |
|     | SDMT09T312-PM | 1,2 | 15 |        |        | ●      |        |        |        | ○      |        |        | ○      |        |        | ●      |        |        |        |        |        |        |         |       |       |
|     | SDMT120412-PM | 1,2 | 15 |        |        | ●      |        |        |        |        |        |        | ○      |        |        | ●      |        |        |        |        |        |        |         |       |       |
|     | SDMT150520-PM | 2   | 15 |        |        |        | ○      |        |        |        |        |        |        |        |        |        | ○      |        |        |        |        |        |         |       |       |

● Ab Lager ○ Auf Anfrage

HC<sup>1</sup> Beschichtetes Hartmetall  
 HT Unbeschichtetes Cermet  
 HC<sup>2</sup> Beschichtetes Cermet  
 HW Unbeschichtetes Hartmetall

**A**

Drehen

**B**

Fräsen

**C**

Bohren

**D**

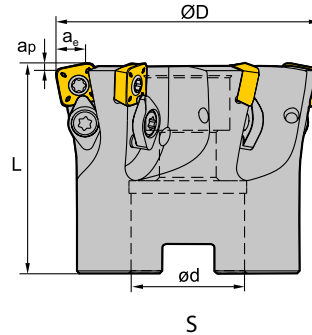
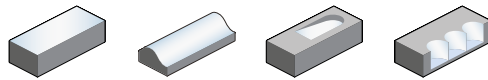
Technische Information

**E**

Index

## Hochvorschubfräser



XMR01 Kr: 15°



| Artikel                | * | Lager | Abmessungen [mm] |    |     |      |    | Zähne | Aufnahme | kg    | WSP      |
|------------------------|---|-------|------------------|----|-----|------|----|-------|----------|-------|----------|
|                        |   |       | ØD               | ød | ap  | ae   | L  |       |          |       |          |
| XMR01-040-A16-SD06-07C | * | ○     | 40               | 16 | 0,8 | 5,8  | 40 | 7     | A        | 0,178 | SDMT06T2 |
| XMR01-050-A22-SD06-07C | * | ○     | 50               | 22 | 0,8 | 5,8  | 40 | 7     | A        | 0,36  |          |
| XMR01-050-A22-SD06-08C | * | ○     | 50               | 22 | 0,8 | 5,8  | 40 | 8     | A        | 0,36  |          |
| XMR01-063-A22-SD06-10C | * | ○     | 63               | 22 | 0,8 | 5,8  | 40 | 10    | A        | 0,53  | SDMT09T3 |
| XMR01-063-A27-SD06-10C | * | ○     | 63               | 27 | 0,8 | 5,8  | 50 | 10    | A        | 0,57  |          |
| XMR01-040-A16-SD09-04  |   | ○     | 40               | 16 | 1,4 | 8,8  | 40 | 4     | A        | 0,182 | SDMT1204 |
| XMR01-040-A16-SD09-04C | * | ○     | 40               | 16 | 1,4 | 8,8  | 40 | 4     | A        | 0,182 |          |
| XMR01-040-A16-SD09-05  |   | ○     | 40               | 16 | 1,4 | 8,8  | 40 | 5     | A        | 0,181 |          |
| XMR01-050-A22-SD09-04C | * | ●     | 50               | 22 | 1,4 | 8,8  | 40 | 4     | A        | 0,3   | SDMT1204 |
| XMR01-050-A22-SD09-05C | * | ○     | 50               | 22 | 1,4 | 8,8  | 40 | 5     | A        | 0,3   |          |
| XMR01-063-A22-SD09-06C | * | ●     | 63               | 22 | 1,4 | 8,8  | 40 | 6     | A        | 0,5   |          |
| XMR01-063-A27-SD09-06C | * | ○     | 63               | 27 | 1,4 | 8,8  | 50 | 6     | A        | 0,6   | SDMT1204 |
| XMR01-063-A22-SD09-07C | * | ●     | 63               | 22 | 1,4 | 8,8  | 40 | 7     | A        | 0,44  |          |
| XMR01-063-A27-SD09-07C | * | ○     | 63               | 27 | 1,4 | 8,8  | 50 | 7     | A        |       |          |
| XMR01-050-A22-SD12-03C | * | ○     | 50               | 22 | 1,8 | 11,7 | 40 | 3     | A        |       | SDMT1204 |
| XMR01-050-A22-SD12-04C | * | ●     | 50               | 22 | 1,8 | 11,7 | 40 | 4     | A        |       |          |
| XMR01-052-A22-SD12-04C | * | ○     | 52               | 22 | 1,8 | 11,7 | 40 | 4     | A        |       |          |
| XMR01-052-A22-SD12-05C | * | ○     | 52               | 22 | 1,8 | 11,7 | 40 | 5     | A        |       | SDMT1204 |
| XMR01-063-A22-SD12-05C | * | ●     | 63               | 22 | 1,8 | 11,7 | 40 | 5     | A        | 0,5   |          |
| XMR01-063-A27-SD12-05C | * | ●     | 63               | 27 | 1,8 | 11,7 | 50 | 5     | A        | 0,6   |          |
| XMR01-063-A22-SD12-06C | * | ●     | 63               | 22 | 1,8 | 11,7 | 50 | 6     | A        | 0,55  | SDMT1204 |
| XMR01-066-A27-SD12-05C | * | ○     | 66               | 27 | 1,8 | 11,7 | 50 | 5     | A        | 0,56  |          |
| XMR01-080-A27-SD12-05C | * | ●     | 80               | 27 | 1,8 | 11,7 | 63 | 5     | A        | 0,9   |          |
| XMR01-080-A27-SD12-06C | * | ●     | 80               | 27 | 1,8 | 11,7 | 50 | 6     | A        | 0,9   | SDMT1204 |
| XMR01-080-A27-SD12-07C | * | ●     | 80               | 27 | 1,8 | 11,7 | 50 | 7     | A        | 0,93  |          |
| XMR01-080-A27-SD12-08C | * | ●     | 80               | 27 | 1,8 | 11,7 | 50 | 8     | A        | 0,92  |          |
| XMR01-100-B32-SD12-06  |   | ●     | 100              | 32 | 1,8 | 11,7 | 50 | 6     | B        | 1,8   | SDMT1204 |
| XMR01-100-B32-SD12-06C | * | ●     | 100              | 32 | 1,8 | 11,7 | 50 | 6     | B        | 1,8   |          |








● Ab Lager ○ Auf Anfrage

\* Mit Innenkühlung

| Artikel                | * | Lager | Abmessungen [mm] |    |                |      |    | Zähne | Aufnahme |  | WSP  |
|------------------------|---|-------|------------------|----|----------------|------|----|-------|----------|---|---|
|                        |   |       | ØD               | ød | a <sub>p</sub> | ae   | L  |       |          |   |   |
| XMR01-100-B32-SD12-07C | * | ●     | 100              | 32 | 1,8            | 11,7 | 50 | 7     | B        |   |   |
| XMR01-125-B40-SD12-08C | * | ●     | 125              | 40 | 1,8            | 11,7 | 63 | 8     | B        | SDMT1204  |   |
| XMR01-125-B40-SD12-09C | * | ●     | 125              | 40 | 1,8            | 11,7 | 63 | 9     | B        |   |   |
| XMR01-063-A22-SD15-04C | * | ○     | 63               | 22 | 2,2            | 14   | 40 | 4     | A        |   |   |
| XMR01-100-B32-SD15-07  |   | ○     | 100              | 32 | 2,2            | 14   | 50 | 7     | B        | 1,2   | SDMT1505  |
| XMR01-125-B40-SD15-09  |   | ○     | 125              | 40 | 2,2            | 14   | 63 | 9     | B        | 2,9   |   |

● Ab Lager    ○ Auf Anfrage

\* Mit Innenkühlung

| Ersatzteile   |                    |                         |                          |                       |                      |  |
|---|--------------------|-------------------------|--------------------------|-----------------------|----------------------|--|
|   | WSP                | SDMT06T2                | SDMT09T3                 | SDMT1204              | SDMT1505             |  |
|   | ØD                 | 20-63                   | 25-63                    | 32-160                | 40-160               |  |
|    | Pratze             |                         | WD-204                   | WD-204                | WD-208               |  |
|    | Schraube (Pratze)  |                         | I60M4×8,4<br>(3,4 Nm)    | I60M4×8,4<br>(3,4 Nm) | I60M5×13<br>(6,7 Nm) |  |
|    | Schraube (WSP)     | I60M2,2×5,5<br>(0,8 Nm) |                          | I60M4×8,4<br>(3,4 Nm) | I60M5×13<br>(6,7 Nm) |  |
|    | Schraube (WSP)     |                         | I60M3,5×08TT<br>(2,7 Nm) |                       |                      |  |
|   | Schlüssel (Pratze) |                         | WT15IP                   | WT15IP                | WT20IP               |  |
|  | Schlüssel (WSP)    | WT07IP                  | WT10IP                   | WT15IP                | WT20IP               |  |

A

Drehen

B

Fräsen

C

Bohren

D

Technische Information

E

Index

# Wendeschneidplatten-Fräser Eckfräser

A

Drehen

B

Fräsen

C

Bohren

D

Technische Information




E

Index

| SDMT  | L      | I.C    | S    | d   |
|-------|--------|--------|------|-----|
| 06 T2 | 6,35   | 6,35   | 2,58 | 5,5 |
| 09 T3 | 9,525  | 9,525  | 3,97 | 4   |
| 12 04 | 12,7   | 12,7   | 4,76 | 4,4 |
| 15 05 | 15,875 | 15,875 | 5,56 | 5,5 |

- Gute Bearbeitungsbedingungen
- Normale Bearbeitungsbedingungen
- Ungünstige Bearbeitungsbedingungen

## Fräs-WSP

| SD** Fräs-WSP   |               |     | HC <sup>1</sup> (CVD) |   |        |        |        |        | HC <sup>1</sup> (PVD) |        |        |        |        | HT     | HC <sup>2</sup> | HW     |        |        |        |        |        |        |        |         |       |       |  |
|---|---------------|-----|-----------------------|---|--------|--------|--------|--------|-----------------------|--------|--------|--------|--------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|--|
|   |               |     | P                     | M | K      | N      | S      | H      |                       |        |        |        |        |        |                 |        |        |        |        |        |        |        |        |         |       |       |  |
| ISO   |               |     | r                     | α | YBC302 | YBC301 | YBC401 | YBM253 | YBM251                | YBM351 | YBD152 | YBD252 | YBG101 | YBG102 | YBG202          | YBG212 | YBS203 | YBG205 | YB9320 | YBG302 | YBS303 | YBG252 | YNG151 | YNG151C | YD101 | YD201 |  |
|    | SDMT06T208-DM | 0,8 | 15                    |   |        |        |        |        | ○                     |        |        |        |        | ○      | ○               |        |        |        |        |        | ○      |        |        |         |       |       |  |
|   | SDMT09T312-DM | 1,2 | 15                    | ● |        |        |        | ●      |                       |        |        |        |        | ○      | ○               |        |        |        |        |        | ●      |        |        |         |       |       |  |
|   | SDMT120412-DM | 1,2 | 15                    | ● |        |        |        | ●      | ●                     |        |        |        |        |        | ○               | ○      |        |        |        |        |        |        |        |         |       |       |  |
|   | SDMT150520-DM | 2   | 15                    |   |        |        |        |        |                       |        |        |        |        |        | ○               |        |        |        |        |        |        |        |        |         |       |       |  |
|    | SDMT09T312-NM |     |                       |   |        |        | ●      |        |                       |        |        |        |        |        |                 | ○      | ●      |        |        |        | ●      |        |        |         |       |       |  |
|   | SDMT120412-NM |     |                       |   |        |        | ●      |        |                       |        |        |        |        |        |                 | ○      | ●      |        | ●      |        | ●      |        |        |         |       |       |  |
|  | SDMT06T208-PM | 0,8 | 15                    | ● |        |        | ●      |        |                       |        |        |        |        |        |                 |        | ○      | ●      |        |        | ○      |        |        |         |       |       |  |
|   | SDMT09T312-PM | 1,2 | 15                    |   |        |        | ●      |        |                       |        | ○      |        |        | ○      |                 |        | ●      |        |        |        |        |        |        |         |       |       |  |
|   | SDMT120412-PM | 1,2 | 15                    |   |        |        | ●      |        |                       |        |        |        |        | ○      |                 |        | ●      |        |        |        |        |        |        |         |       |       |  |
|   | SDMT150520-PM | 2   | 15                    |   |        |        |        |        |                       |        |        |        |        |        |                 |        |        | ○      |        |        |        |        |        |         |       |       |  |

● Ab Lager ○ Auf Anfrage

HC<sup>1</sup> Beschichtetes Hartmetall  
 HT Unbeschichtetes Cermet  
 HC<sup>2</sup> Beschichtetes Cermet  
 HW Unbeschichtetes Hartmetall

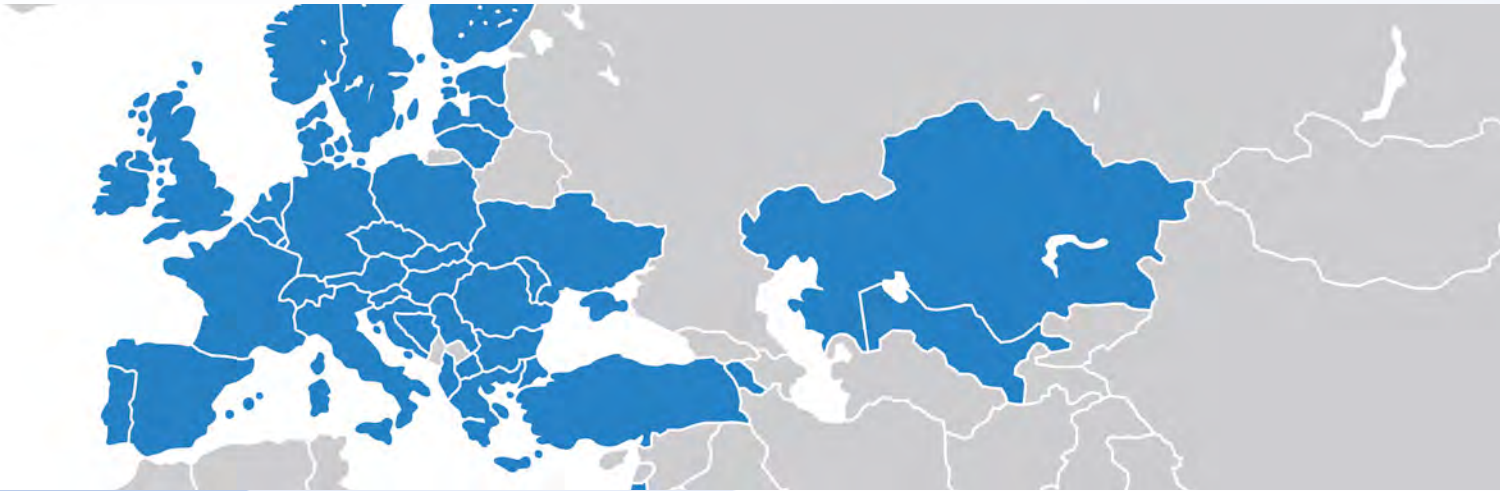


## Planfrässystem FME17

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von Planflächen und Konturen

# AKTION WSP-FRÄSEN

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