



**EASY.**

# EASYTap

Der neue Allrounder

[www.lmt-tools.com](http://www.lmt-tools.com)

**LMT•TOOLS**  
BELIN  
FETTE  
KIENINGER  
ONSRUD



# Universeller Gewindebohrer: Maximale Flexibilität für alle Gewindetypen

Der EASYTap vereint herausragende Flexibilität und Effizienz in einer Produktreihe. Das EASYTap Gewindeportfolio ist für die Anwendung in nahezu allen Materialien geeignet. Die Vorteile der neuen EASYTap-Serie führen zu einer signifikanten Reduktion von Zeit und

Kosten in der Produktion. Das benutzerfreundliche Handling und die hohe Prozesssicherheit machen den EASYTap zur idealen Wahl für eine vielseitige und unkomplizierte Gewindebearbeitung.



# EASYTap Gewindebohrer

## – Ihr universeller Alleskönner

Unser EASYTap Gewindebohrer-Programm bietet die ideale Lösung für alle gängigen Gewindearten wie Metrisch, Feinmetrisch, UNC, UNF, G und EG-M. Gefertigt aus hochwertigem HSS-E Material und veredelt mit einer bewährten TiN-Beschichtung, gewährleistet der EASYTap höchste Präzision und Langlebigkeit.

Universell einsetzbar für verschiedenste Werkstoffe – von Stahl über rostfreien Stahl bis hin zu Gusseisen und Aluminium – überzeugt der EASYTap durch seine Vielseitigkeit. Im metrischen Programm bieten wir Durchmesser von M1 bis M30 im Standardportfolio an, während das Feinmetrische Programm von Ø MF2,5 bis MF30 reicht. Für UNC und UNF Gewinde stehen Größen von Nr. 2 bis 1 Zoll zur Verfügung, G-Gewinde von 1/16 bis 1 Zoll und EG-M von M2 bis M20. Damit deckt der EASYTap ein besonders breites Anwendungsspektrum ab.

Setzen Sie auf die Qualität von EASYTap und meistern Sie jede Herausforderung mühelos.

### Ihre Vorteile:

- Der universelle Gewindebohrer bietet ein breites Anwendungsfeld.
- Lange Standzeiten in Stahl, rostfreiem Stahl, Gusseisen und Aluminium sorgen für einen niedrigen Preis pro Gewinde.
- Prozesssicherheit durch effiziente Spanbildung.

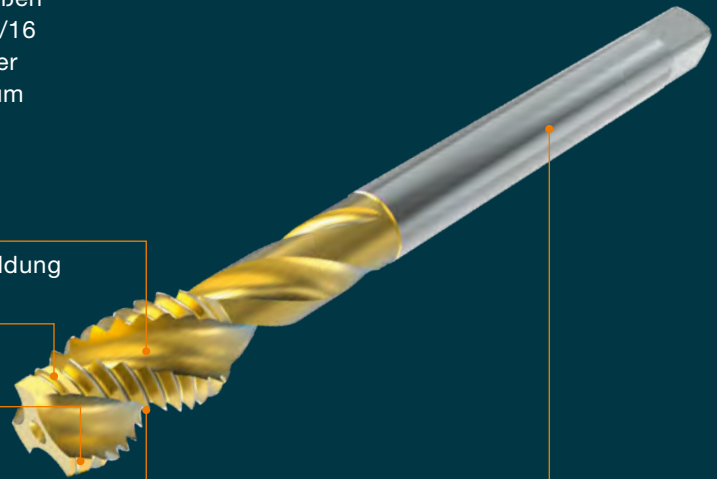
Optimierte Spannuten ermöglichen effiziente Spanbildung und höhere Prozesssicherheit

Neuentwickelte Anschnittgeometrie sorgt für stabile Spanbildung

Verschleißfeste TiN-Beschichtung

Kompatibel mit Öl, Emulsion und MMS (Minimalmengenschmierung)

Universell einsetzbar in Synchro-, Ausgleichsfutter oder Spannzangen



### EASYTap

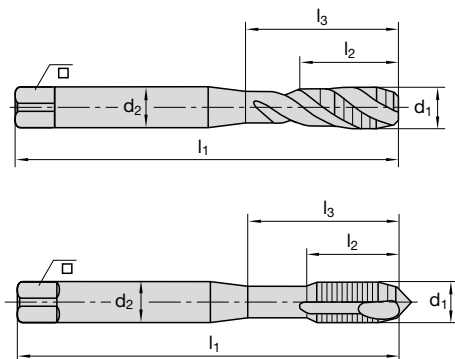
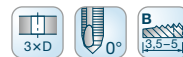
Für leistungsfähige Gewindebearbeitung in unterschiedlichsten Werkstoffen:  
Stahl, rostfreier Stahl, Gusseisen und Aluminium



Grundlochbohrung



Durchgangsbohrung



| Katalog-Nr.                    |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ET01      |                              |                       |                          |                         |            |                       |
|--------------------------------|------|----------------|------------------|------------------|----------------|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------------------------------|-----------------------|--------------------------|-------------------------|------------|-----------------------|
| P1                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min |                       |                          |                         |            |                       |
| P2                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min |                       |                          |                         |            |                       |
| P3                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  |                       |                          |                         |            |                       |
| M1                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  |                       |                          |                         |            |                       |
| K2                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  |                       |                          |                         |            |                       |
| N1                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |                       |                          |                         |            |                       |
| N2                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |                       |                          |                         |            |                       |
| N3                             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min |                       |                          |                         |            |                       |
| d <sub>1</sub>                 | P    | I <sub>1</sub> | I <sub>2</sub>   | I <sub>3</sub>   | d <sub>2</sub> | h12 | z   |  |  | Ident No. | LMT-Code                     | Ident. No.            | Ident No.                | LMT-Code                | Ident. No. |                       |
| mit verstärktem Zylinderschaft |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     |           |                              | 7477314 <sup>1)</sup> |                          |                         |            | 7477315 <sup>2)</sup> |
| M6                             | 1    | 80             | 8 <sup>1)</sup>  | 19 <sup>2)</sup> | 30             | 6   | 4,9 | 3                                                                                   | 5                                                                                   | 7465304   | TC-CM 6X1-6HX-ET45-11        |                       | 7465213                  | TC-BM 6X1-6HX-ET0-11    |            |                       |
| M8                             | 1,25 | 90             | 10 <sup>1)</sup> | 22 <sup>2)</sup> | 35             | 8   | 6,2 | 3                                                                                   | 6,8                                                                                 | 7465306   | TC-CM 8X1,25-6HX-ET45-11     |                       | 7465215                  | TC-BM 8X1,25-6HX-ET0-11 |            |                       |
| M10                            | 1,5  | 100            | 12 <sup>1)</sup> | 24 <sup>2)</sup> | 39             | 10  | 8   | 3                                                                                   | 8,5                                                                                 | 7465307   | TC-CM 10X1,5-6HX-ET45-11     |                       | 7465216                  | TC-BM 10X1,5-6HX-ET0-11 |            |                       |
| mit Überlaufschaft             |      |                |                  |                  |                |     |     |                                                                                     |                                                                                     |           |                              |                       |                          |                         |            |                       |
| M12                            | 1,75 | 110            | 14 <sup>1)</sup> | 28 <sup>2)</sup> | –              | 9   | 7   | 3                                                                                   | 10,2                                                                                | 7465308   | TC-CM 12X1,75-6HX-ET45-11    | 7465217               | TC-BM 12X1,75-6HX-ET0-11 |                         |            |                       |

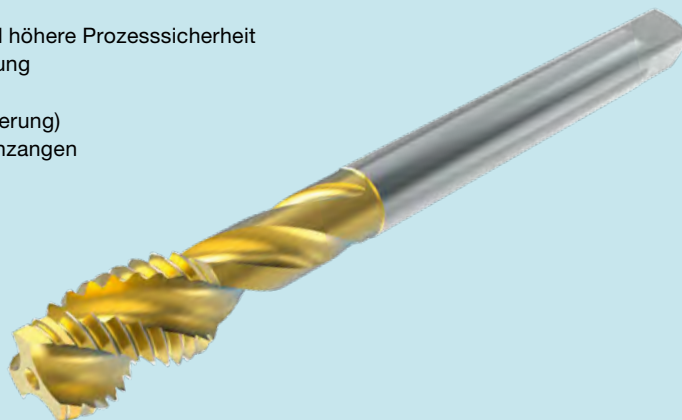
<sup>1)</sup> für Grundloch

<sup>2)</sup> für Durchgangsloch

■ = Hauptanwendung

#### Merkmale:

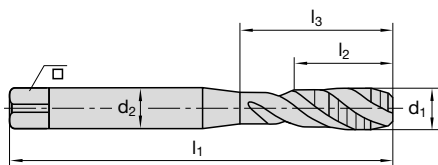
- Optimierte Spannten ermöglichen effiziente Spannbildung und höhere Prozesssicherheit
- Neuentwickelte Anschnittgeometrie sorgt für stabile Spannbildung
- Verschleißfeste TiN-Beschichtung
- Kompatibel mit Öl, Emulsion und MMS (Minimalmengenschmierung)
- Universell einsetzbar in Synchro-, Ausgleichsfutter oder Spannzangen



QR Code scannen  
und Aktionsprodukte  
entdecken.

| Beschreibung                                                                        | Abmessung   | Toleranz | Anschnitt                                                                             | Gewindetiefe                                                                        | Norm                                                                                  | Drall                                                                                 | Besonderheit                                                                          | Seite |    |
|-------------------------------------------------------------------------------------|-------------|----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|----|
| Grundgewinde                                                                        |             |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |       |    |
|    | M 1–30      | 6HX      |      |    | DIN 371/376                                                                           |    |                                                                                       | 6     |    |
|                                                                                     | M 3–20      |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |    | 7     |    |
|                                                                                     | M 3–24      |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |    | 8     |    |
|                                                                                     | M 2–24      |          |      |                                                                                     |                                                                                       |                                                                                       |                                                                                       | 9     |    |
|                                                                                     | M 2–24      | 6GX      |      |                                                                                     |                                                                                       |                                                                                       |                                                                                       | 14    |    |
|                                                                                     | M 2–16      | 6H +1/10 |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       | 16    |    |
|                                                                                     | MF 2,5–30   | 6HX      |                                                                                       |                                                                                     | DIN 374                                                                               |                                                                                       |                                                                                       | 18    |    |
|                                                                                     | MF 8–20     |          |    |                                                                                     |                                                                                       |                                                                                       | 19                                                                                    |       |    |
|                                                                                     | MF 8–24     |          |    |                                                                                     |                                                                                       |                                                                                       | 20                                                                                    |       |    |
|                                                                                     | UNC No. 2–1 | 2BX      |                                                                                       |                                                                                     |                                                                                       |                                                                                       | DIN 2184-1                                                                            |       | 24 |
|                                                                                     | UNF No. 2–1 |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |       | 26 |
|                                                                                     | G 1/16–1    |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       | DIN 5156                                                                              |       | 28 |
|                                                                                     | G 1/8–1     |          |                                                                                       |                                                                                     |  |                                                                                       |                                                                                       | 29    |    |
|                                                                                     | EGM 2–20    | 6HX mod  |    |                                                                                     | DIN 40435                                                                             |                                                                                       |                                                                                       | 32    |    |
|                                                                                     | NPT 1/16–1  |          |    |                                                                                     | DIN 5156                                                                              |  |                                                                                       | 34    |    |
| Durchgangsgewinde                                                                   |             |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |       |    |
|  | M 1–30      | 6HX      |    |  | DIN 371/376                                                                           |  |                                                                                       | 10    |    |
|                                                                                     | M 3–20      |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |  | 12    |    |
|                                                                                     | M 3–24      |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |  | 13    |    |
|                                                                                     | M 2–24      |          | 6GX                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       | 15    |    |
|                                                                                     | M 2–16      | 6H +1/10 |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       | 17    |    |
|                                                                                     | MF 2,5–30   | 6HX      |                                                                                       |                                                                                     | DIN 374                                                                               |                                                                                       |                                                                                       | 21    |    |
|                                                                                     | MF 8–20     |          |  |                                                                                     |                                                                                       |                                                                                       | 22                                                                                    |       |    |
|                                                                                     | MF 8–24     |          |  |                                                                                     |                                                                                       |                                                                                       | 23                                                                                    |       |    |
|                                                                                     | UNC No. 2–1 | 2BX      |                                                                                       |                                                                                     |                                                                                       |                                                                                       | DIN 2184-1                                                                            |       | 25 |
|                                                                                     | UNF No. 2–1 |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |       | 27 |
|                                                                                     | G 1/16–1    |          |                                                                                       |                                                                                     | DIN 5156                                                                              |                                                                                       |                                                                                       | 30    |    |
|                                                                                     | G 1/8–1     |          |                                                                                       |                                                                                     |                                                                                       |                                                                                       |  | 31    |    |
|                                                                                     | EGM 2–20    | 6HX mod  |                                                                                       |                                                                                     | DIN 40435                                                                             |                                                                                       |                                                                                       | 33    |    |





| Katalog-Nr.                    |                                                     |                |                |                |                |       |   |                                                                                     | ET01                           |                                | ET01      |                           |
|--------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-----------|---------------------------|
| P1                             | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–25 m/min | ■ v <sub>c</sub> = 15–25 m/min |           |                           |
| P2                             | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–20 m/min | ■ v <sub>c</sub> = 10–20 m/min |           |                           |
| P3                             | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–15 m/min  | ■ v <sub>c</sub> = 8–15 m/min  |           |                           |
| M1                             | Rostfreie austenitische Stähle                      |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 6–12 m/min  | ■ v <sub>c</sub> = 6–12 m/min  |           |                           |
| M2                             | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| K1                             | Grauguss                                            |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| K2                             | Sphäroguss                                          |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–20 m/min  | ■ v <sub>c</sub> = 8–20 m/min  |           |                           |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |           |                           |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |           |                           |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–30 m/min | ■ v <sub>c</sub> = 10–30 m/min |           |                           |
| N4                             | Graphit                                             |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| S1                             | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| S2                             | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| H1                             | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| d <sub>1</sub>                 | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code                       | Ident No. | LMT-Code                  |
| mit verstärktem Zylinderschaft |                                                     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| M1                             | 0,25                                                | 40             | 5              | –              | 2,5            | 2,1   | 2 | 0,75                                                                                | 7465287                        | TC-CM 1X0,25-4HX-ET45-11       | –         | –                         |
| M1,1                           | 0,25                                                | 40             | 5              | –              | 2,5            | 2,1   | 2 | 0,85                                                                                | 7465288                        | TC-CM 1,1X0,25-4HX-ET45-11     | –         | –                         |
| M1,2                           | 0,25                                                | 40             | 5              | –              | 2,5            | 2,1   | 2 | 0,95                                                                                | 7465289                        | TC-CM 1,2X0,25-4HX-ET45-11     | –         | –                         |
| M1,4                           | 0,3                                                 | 40             | 6              | –              | 2,5            | 2,1   | 2 | 1,1                                                                                 | 7465290                        | TC-CM 1,4X0,3-6HX-ET45-11      | –         | –                         |
| M1,6                           | 0,35                                                | 40             | 7              | –              | 2,5            | 2,1   | 2 | 1,25                                                                                | 7465291                        | TC-CM 1,6X0,35-6HX-ET45-11     | –         | –                         |
| M1,7                           | 0,35                                                | 40             | 8              | –              | 2,5            | 2,1   | 2 | 1,3                                                                                 | 7465292                        | TC-CM 1,7X0,35-6HX-ET45-11     | –         | –                         |
| M1,8                           | 0,35                                                | 40             | 8              | –              | 2,5            | 2,1   | 2 | 1,45                                                                                | 7465293                        | TC-CM 1,8X0,35-6HX-ET45-11     | –         | –                         |
| M2                             | 0,4                                                 | 45             | 3,2            | 10             | 2,8            | 2,1   | 2 | 1,6                                                                                 | 7465294                        | TC-CM 2X0,4-6HX-ET45-11        | –         | –                         |
| M2,2                           | 0,45                                                | 45             | 3,6            | 11             | 2,8            | 2,1   | 2 | 1,75                                                                                | 7465295                        | TC-CM 2,2X0,45-6HX-ET45-11     | –         | –                         |
| M2,3                           | 0,4                                                 | 45             | 3,6            | 12             | 2,8            | 2,1   | 2 | 1,9                                                                                 | 7465296                        | TC-CM 2,3X0,4-6HX-ET45-11      | –         | –                         |
| M2,5                           | 0,45                                                | 50             | 3,6            | 13             | 2,8            | 2,1   | 2 | 2,05                                                                                | 7465297                        | TC-CM 2,5X0,45-6HX-ET45-11     | –         | –                         |
| M2,6                           | 0,45                                                | 50             | 3,6            | 13             | 2,8            | 2,1   | 2 | 2,1                                                                                 | 7465298                        | TC-CM 2,6X0,45-6HX-ET45-11     | –         | –                         |
| M3                             | 0,5                                                 | 56             | 4              | 18             | 3,5            | 2,7   | 3 | 2,5                                                                                 | 7465299                        | TC-CM 3X0,5-6HX-ET45-11        | –         | –                         |
| M4                             | 0,7                                                 | 63             | 5,6            | 21             | 4,5            | 3,4   | 3 | 3,3                                                                                 | 7465301                        | TC-CM 4X0,7-6HX-ET45-11        | –         | –                         |
| M5                             | 0,8                                                 | 70             | 6,4            | 25             | 6              | 4,9   | 3 | 4,2                                                                                 | 7465303                        | TC-CM 5X0,8-6HX-ET45-11        | –         | –                         |
| M6                             | 1                                                   | 80             | 8              | 30             | 6              | 4,9   | 3 | 5                                                                                   | 7465304                        | TC-CM 6X1-6HX-ET45-11          | –         | –                         |
| M8                             | 1,25                                                | 90             | 10             | 35             | 8              | 6,2   | 3 | 6,8                                                                                 | 7465306                        | TC-CM 8X1,25-6HX-ET45-11       | –         | –                         |
| M10                            | 1,5                                                 | 100            | 12             | 39             | 10             | 8     | 3 | 8,5                                                                                 | 7465307                        | TC-CM 10X1,5-6HX-ET45-11       | –         | –                         |
| mit Überlaufschaft             |                                                     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| M6                             | 1                                                   | 80             | 8              | –              | 4,5            | 3,4   | 3 | 5                                                                                   | –                              | –                              | 7465320   | TC-CM 6X1-6HX-ET45-11     |
| M8                             | 1,25                                                | 90             | 10             | –              | 6              | 4,9   | 3 | 6,8                                                                                 | –                              | –                              | 7465321   | TC-CM 8X1,25-6HX-ET45-11  |
| M10                            | 1,5                                                 | 100            | 12             | –              | 7              | 5,5   | 3 | 8,5                                                                                 | –                              | –                              | 7465322   | TC-CM 10X1,5-6HX-ET45-11  |
| M12                            | 1,75                                                | 110            | 14             | –              | 9              | 7     | 3 | 10,2                                                                                | –                              | –                              | 7465308   | TC-CM 12X1,75-6HX-ET45-11 |
| M14                            | 2                                                   | 110            | 16             | –              | 11             | 9     | 3 | 12                                                                                  | –                              | –                              | 7465309   | TC-CM 14X2-6HX-ET45-11    |
| M16                            | 2                                                   | 110            | 16             | –              | 12             | 9     | 3 | 14                                                                                  | –                              | –                              | 7465310   | TC-CM 16X2-6HX-ET45-11    |
| M18                            | 2,5                                                 | 125            | 25             | –              | 14             | 11    | 4 | 15,5                                                                                | –                              | –                              | 7465311   | TC-CM 18X2,5-6HX-ET45-11  |
| M20                            | 2,5                                                 | 140            | 25             | –              | 16             | 12    | 4 | 17,5                                                                                | –                              | –                              | 7465312   | TC-CM 20X2,5-6HX-ET45-11  |
| M22                            | 2,5                                                 | 140            | 25             | –              | 18             | 14,5  | 4 | 19,5                                                                                | –                              | –                              | 7465313   | TC-CM 22X2,5-6HX-ET45-11  |
| M24                            | 3                                                   | 160            | 30             | –              | 18             | 14,5  | 4 | 21                                                                                  | –                              | –                              | 7465314   | TC-CM 24X3-6HX-ET45-11    |
| M27                            | 3                                                   | 160            | 36             | –              | 20             | 16    | 4 | 24                                                                                  | –                              | –                              | 7465315   | TC-CM 27X3-6HX-ET45-11    |
| M30                            | 3,5                                                 | 180            | 42             | –              | 22             | 18    | 4 | 26,5                                                                                | –                              | –                              | 7465316   | TC-CM 30X3,5-6HX-ET45-11  |

■ = Hauptanwendung

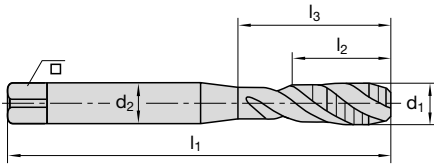
□ = Nebenanwendung



■ = Hauptanwendung      □ = Nebenanwendung

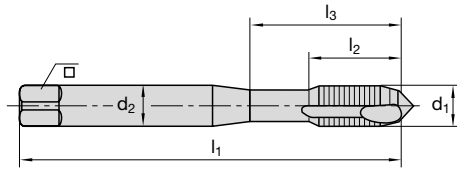
| <div> <div>M</div> <div>EASY.</div> <div>h9</div> <div>2-3xD</div> <div>45°</div> <div>C</div> <div>2-3</div> <div>6HX</div> <div>HSS-E</div> <div>TiN</div> <div></div> <div>DIN 371</div> <div>DIN 376</div> </div> |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|--------------------------------|------|-----------|--------------------------------|-----------|-----------------------------|
|                                                                                                                                                                                                                       |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>Katalog-Nr.</b>                                                                                                                                                                                                    |                                                     |                |                |                |                |       | <b>ET01</b>                    |      |           | <b>ET01</b>                    |           |                             |
| <b>P1</b>                                                                                                                                                                                                             | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       | ■ v <sub>c</sub> = 15–25 m/min |      |           | ■ v <sub>c</sub> = 15–25 m/min |           |                             |
| <b>P2</b>                                                                                                                                                                                                             | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       | ■ v <sub>c</sub> = 10–20 m/min |      |           | ■ v <sub>c</sub> = 10–20 m/min |           |                             |
| <b>P3</b>                                                                                                                                                                                                             | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       | ■ v <sub>c</sub> = 8–15 m/min  |      |           | ■ v <sub>c</sub> = 8–15 m/min  |           |                             |
| <b>M1</b>                                                                                                                                                                                                             | Rostfreie austenitische Stähle                      |                |                |                |                |       | ■ v <sub>c</sub> = 6–12 m/min  |      |           | ■ v <sub>c</sub> = 6–12 m/min  |           |                             |
| <b>M2</b>                                                                                                                                                                                                             | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>K1</b>                                                                                                                                                                                                             | Grauguss                                            |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>K2</b>                                                                                                                                                                                                             | Sphäroguss                                          |                |                |                |                |       | ■ v <sub>c</sub> = 8–20 m/min  |      |           | ■ v <sub>c</sub> = 8–20 m/min  |           |                             |
| <b>N1</b>                                                                                                                                                                                                             | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       | ■ v <sub>c</sub> = 15–40 m/min |      |           | ■ v <sub>c</sub> = 15–40 m/min |           |                             |
| <b>N2</b>                                                                                                                                                                                                             | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       | ■ v <sub>c</sub> = 15–40 m/min |      |           | ■ v <sub>c</sub> = 15–40 m/min |           |                             |
| <b>N3</b>                                                                                                                                                                                                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       | ■ v <sub>c</sub> = 10–30 m/min |      |           | ■ v <sub>c</sub> = 10–30 m/min |           |                             |
| <b>N4</b>                                                                                                                                                                                                             | Graphit                                             |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>S1</b>                                                                                                                                                                                                             | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>S2</b>                                                                                                                                                                                                             | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>H1</b>                                                                                                                                                                                                             | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |                                |      |           |                                |           |                             |
| d <sub>1</sub>                                                                                                                                                                                                        | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z                              |      | Ident No. | LMT-Code                       | Ident No. | LMT-Code                    |
| <b>mit verstärktem Zylinderschaft</b>                                                                                                                                                                                 |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
| M3                                                                                                                                                                                                                    | 0,5                                                 | 56             | 4              | 18             | 3,5            | 2,7   | 3                              | 2,5  | 7465379   | TC-CM 3X0,5-6HX-ET45-11-A      | –         | –                           |
| M4                                                                                                                                                                                                                    | 0,7                                                 | 63             | 5,6            | 21             | 4,5            | 3,4   | 3                              | 3,3  | 7465380   | TC-CM 4X0,7-6HX-ET45-11-A      | –         | –                           |
| M5                                                                                                                                                                                                                    | 0,8                                                 | 70             | 6,4            | 25             | 6              | 4,9   | 3                              | 4,2  | 7465381   | TC-CM 5X0,8-6HX-ET45-11-A      | –         | –                           |
| M6                                                                                                                                                                                                                    | 1                                                   | 80             | 8              | 30             | 6              | 4,9   | 3                              | 5    | 7465382   | TC-CM 6X1-6HX-ET45-11-A        | –         | –                           |
| M8                                                                                                                                                                                                                    | 1,25                                                | 90             | 10             | 35             | 8              | 6,2   | 3                              | 6,8  | 7465383   | TC-CM 8X1,25-6HX-ET45-11-A     | –         | –                           |
| M10                                                                                                                                                                                                                   | 1,5                                                 | 100            | 12             | 39             | 10             | 8     | 3                              | 8,5  | 7465384   | TC-CM 10X1,5-6HX-ET45-11-A     | –         | –                           |
| <b>mit Überlaufschaft</b>                                                                                                                                                                                             |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
| M12                                                                                                                                                                                                                   | 1,75                                                | 110            | 14             | –              | 9              | 7     | 3                              | 10,2 | –         | –                              | 7465385   | TC-CM 12X1,75-6HX-ET45-11-A |
| M14                                                                                                                                                                                                                   | 2                                                   | 110            | 16             | –              | 11             | 9     | 3                              | 12   | –         | –                              | 7465386   | TC-CM 14X2-6HX-ET45-11-A    |
| M16                                                                                                                                                                                                                   | 2                                                   | 110            | 16             | –              | 12             | 9     | 3                              | 14   | –         | –                              | 7465387   | TC-CM 16X2-6HX-ET45-11-A    |
| M20                                                                                                                                                                                                                   | 2,5                                                 | 140            | 25             | –              | 16             | 12    | 4                              | 17,5 | –         | –                              | 7465388   | TC-CM 20X2,5-6HX-ET45-11-A  |
| M24                                                                                                                                                                                                                   | 3                                                   | 160            | 30             | –              | 18             | 14,5  | 4                              | 21   | –         | –                              | 7465389   | TC-CM 24X3-6HX-ET45-11-A    |

■ = Hauptanwendung    □ = Nebenanwendung



| Katalog-Nr.                    |                                                     |                |                |                |                |       |   |                                                                                     | ET01                           |                                | ET01      |                           |
|--------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-----------|---------------------------|
| P1                             | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–25 m/min | ■ v <sub>c</sub> = 15–25 m/min |           |                           |
| P2                             | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–20 m/min | ■ v <sub>c</sub> = 10–20 m/min |           |                           |
| P3                             | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–15 m/min  | ■ v <sub>c</sub> = 8–15 m/min  |           |                           |
| M1                             | Rostfreie austenitische Stähle                      |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 6–12 m/min  | ■ v <sub>c</sub> = 6–12 m/min  |           |                           |
| M2                             | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| K1                             | Grauguss                                            |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| K2                             | Sphäroguss                                          |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–20 m/min  | ■ v <sub>c</sub> = 8–20 m/min  |           |                           |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |           |                           |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |           |                           |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–30 m/min | ■ v <sub>c</sub> = 10–30 m/min |           |                           |
| N4                             | Graphit                                             |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| S1                             | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| S2                             | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| H1                             | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| d <sub>1</sub>                 | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code                       | Ident No. | LMT-Code                  |
| mit verstärktem Zylinderschaft |                                                     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| M2                             | 0,4                                                 | 45             | 3,2            | 10             | 2,8            | 2,1   | 2 | 1,6                                                                                 | 7465323                        | TC-EM 2X0,4-6HX-ET45-11        | –         | –                         |
| M3                             | 0,5                                                 | 56             | 4              | 18             | 3,5            | 2,7   | 3 | 2,5                                                                                 | 7465324                        | TC-EM 3X0,5-6HX-ET45-11        | –         | –                         |
| M4                             | 0,7                                                 | 63             | 5,6            | 21             | 4,5            | 3,4   | 3 | 3,3                                                                                 | 7465325                        | TC-EM 4X0,7-6HX-ET45-11        | –         | –                         |
| M5                             | 0,8                                                 | 70             | 6,4            | 25             | 6              | 4,9   | 3 | 4,2                                                                                 | 7465326                        | TC-EM 5X0,8-6HX-ET45-11        | –         | –                         |
| M6                             | 1                                                   | 80             | 8              | 30             | 6              | 4,9   | 3 | 5                                                                                   | 7465327                        | TC-EM 6X1-6HX-ET45-11          | –         | –                         |
| M8                             | 1,25                                                | 90             | 10             | 35             | 8              | 6,2   | 3 | 6,8                                                                                 | 7465328                        | TC-EM 8X1,25-6HX-ET45-11       | –         | –                         |
| M10                            | 1,5                                                 | 100            | 12             | 39             | 10             | 8     | 3 | 8,5                                                                                 | 7465329                        | TC-EM 10X1,5-6HX-ET45-11       |           |                           |
| mit Überlaufschaft             |                                                     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |
| M12                            | 1,75                                                | 110            | 14             | –              | 9              | 7     | 3 | 10,2                                                                                | –                              | –                              | 7465330   | TC-EM 12X1,75-6HX-ET45-11 |
| M14                            | 2                                                   | 110            | 16             | –              | 11             | 9     | 3 | 12                                                                                  | –                              | –                              | 7465331   | TC-EM 14X2-6HX-ET45-11    |
| M16                            | 2                                                   | 110            | 16             | –              | 12             | 9     | 3 | 14                                                                                  | –                              | –                              | 7465332   | TC-EM 16X2-6HX-ET45-11    |
| M20                            | 2,5                                                 | 140            | 25             | –              | 16             | 12    | 4 | 17,5                                                                                | –                              | –                              | 7465333   | TC-EM 20X2,5-6HX-ET45-11  |
| M24                            | 3                                                   | 160            | 30             | –              | 18             | 14,5  | 4 | 21                                                                                  | –                              | –                              | 7465334   | TC-EM 24X3-6HX-ET45-11    |
|                                |                                                     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                           |

■ = Hauptanwendung    □ = Nebenanwendung

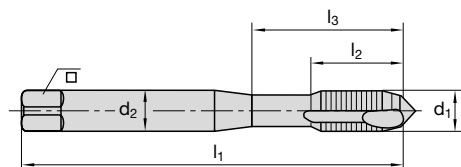


| Katalog-Nr.                    |                                                     |                |                |                |                |       |   | ET01                                                                                |                                | ET01                      |           |          |
|--------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|---------------------------|-----------|----------|
| P1                             | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       |   | ■ v <sub>c</sub> = 15–25 m/min                                                      | ■ v <sub>c</sub> = 15–25 m/min |                           |           |          |
| P2                             | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       |   | ■ v <sub>c</sub> = 10–20 m/min                                                      | ■ v <sub>c</sub> = 10–20 m/min |                           |           |          |
| P3                             | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       |   | ■ v <sub>c</sub> = 8–15 m/min                                                       | ■ v <sub>c</sub> = 8–15 m/min  |                           |           |          |
| M1                             | Rostfreie austenitische Stähle                      |                |                |                |                |       |   | ■ v <sub>c</sub> = 6–12 m/min                                                       | ■ v <sub>c</sub> = 6–12 m/min  |                           |           |          |
| M2                             | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| K1                             | Grauguss                                            |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| K2                             | Sphäroguss                                          |                |                |                |                |       |   | ■ v <sub>c</sub> = 8–20 m/min                                                       | ■ v <sub>c</sub> = 8–20 m/min  |                           |           |          |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       |   | ■ v <sub>c</sub> = 15–40 m/min                                                      | ■ v <sub>c</sub> = 15–40 m/min |                           |           |          |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       |   | ■ v <sub>c</sub> = 15–40 m/min                                                      | ■ v <sub>c</sub> = 15–40 m/min |                           |           |          |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       |   | ■ v <sub>c</sub> = 10–30 m/min                                                      | ■ v <sub>c</sub> = 10–30 m/min |                           |           |          |
| N4                             | Graphit                                             |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| S1                             | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| S2                             | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| H1                             | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| d <sub>1</sub>                 | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code                  | Ident No. | LMT-Code |
| mit verstärktem Zylinderschaft |                                                     |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |
| M1                             | 0,25                                                | 40             | 5              | –              | 2,5            | 2,1   | 2 | 0,75                                                                                | 7465196                        | TC-BM 1X0,25-4HX-ET0-11   | –         | –        |
| M1,1                           | 0,25                                                | 40             | 5              | –              | 2,5            | 2,1   | 2 | 0,85                                                                                | 7465197                        | TC-BM 1,1X0,25-4HX-ET0-11 | –         | –        |
| M1,2                           | 0,25                                                | 40             | 5              | –              | 2,5            | 2,1   | 2 | 0,95                                                                                | 7465198                        | TC-BM 1,2X0,25-4HX-ET0-11 | –         | –        |
| M1,4                           | 0,3                                                 | 40             | 7              | –              | 2,5            | 2,1   | 2 | 1,1                                                                                 | 7465199                        | TC-BM 1,4X0,3-6HX-ET0-11  | –         | –        |
| M1,6                           | 0,35                                                | 40             | 8              | –              | 2,5            | 2,1   | 2 | 1,25                                                                                | 7465200                        | TC-BM 1,6X0,35-6HX-ET0-11 | –         | –        |
| M1,7                           | 0,35                                                | 40             | 8              | –              | 2,5            | 2,1   | 2 | 1,3                                                                                 | 7465201                        | TC-BM 1,7X0,35-6HX-ET0-11 | –         | –        |
| M1,8                           | 0,35                                                | 40             | 8              | –              | 2,5            | 2,1   | 2 | 1,45                                                                                | 7465202                        | TC-BM 1,8X0,35-6HX-ET0-11 | –         | –        |
| M 2                            | 0,4                                                 | 45             | 8              | –              | 2,8            | 2,1   | 2 | 1,6                                                                                 | 7465203                        | TC-BM 2X0,4-6HX-ET0-11    | –         | –        |
| M 2,2                          | 0,45                                                | 45             | 9              | –              | 2,8            | 2,1   | 2 | 1,75                                                                                | 7465204                        | TC-BM 2,2X0,45-6HX-ET0-11 | –         | –        |
| M 2,3                          | 0,4                                                 | 45             | 9              | –              | 2,8            | 2,1   | 2 | 1,9                                                                                 | 7465205                        | TC-BM 2,3X0,4-6HX-ET0-11  | –         | –        |
| M 2,5                          | 0,45                                                | 50             | 9              | –              | 2,8            | 2,1   | 2 | 2,05                                                                                | 7465206                        | TC-BM 2,5X0,45-6HX-ET0-11 | –         | –        |
| M 2,6                          | 0,45                                                | 50             | 9              | –              | 2,8            | 2,1   | 2 | 2,1                                                                                 | 7465207                        | TC-BM 2,6X0,45-6HX-ET0-11 | –         | –        |
| M3                             | 0,5                                                 | 56             | 11             | 18             | 3,5            | 2,7   | 3 | 2,5                                                                                 | 7465208                        | TC-BM 3X0,5-6HX-ET0-11    | –         | –        |
| M4                             | 0,7                                                 | 63             | 13             | 21             | 4,5            | 3,4   | 3 | 3,3                                                                                 | 7465210                        | TC-BM 4X0,7-6HX-ET0-11    | –         | –        |
| M5                             | 0,8                                                 | 70             | 16             | 25             | 6              | 4,9   | 3 | 4,2                                                                                 | 7465212                        | TC-BM 5X0,8-6HX-ET0-11    | –         | –        |
| M6                             | 1                                                   | 80             | 19             | 30             | 6              | 4,9   | 3 | 5                                                                                   | 7465213                        | TC-BM 6X1-6HX-ET0-11      | –         | –        |
| M8                             | 1,25                                                | 90             | 22             | 35             | 8              | 6,2   | 3 | 6,8                                                                                 | 7465215                        | TC-BM 8X1,25-6HX-ET0-11   | –         | –        |
| M10                            | 1,5                                                 | 100            | 24             | 39             | 10             | 8     | 3 | 8,5                                                                                 | 7465216                        | TC-BM 10X1,5-6HX-ET0-11   | –         | –        |
|                                |                                                     |                |                |                |                |       |   |                                                                                     |                                |                           |           |          |

■ = Hauptanwendung □ = Nebenanwendung



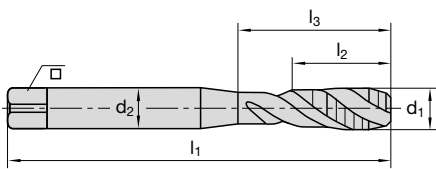




| Katalog-Nr.        |                                             |                |                |                |                |       |   |                                                                                     | ET01                           |                                | ET01      |                          |
|--------------------|---------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-----------|--------------------------|
| P1                 | Stahl < 500 N/mm²                           |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–25 m/min | ■ v <sub>c</sub> = 15–25 m/min |           |                          |
| P2                 | Stahl 500–1000 N/mm², < 31 HRC              |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–20 m/min | ■ v <sub>c</sub> = 10–20 m/min |           |                          |
| P3                 | Stahl > 1000 N/mm², < 40 HRC                |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–15 m/min  | ■ v <sub>c</sub> = 8–15 m/min  |           |                          |
| M1                 | Rostfreie austenitische Stähle              |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 6–12 m/min  | ■ v <sub>c</sub> = 6–12 m/min  |           |                          |
| M2                 | Rostfreie martensitische Stähle < 29 HRC    |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| K1                 | Grauguss                                    |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| K2                 | Sphäroguss                                  |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–20 m/min  | ■ v <sub>c</sub> = 8–20 m/min  |           |                          |
| N1                 | Alu- & Cu-Legierungen langspanend < 5 % Si  |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |           |                          |
| N2                 | Alu- & Cu-Legierungen langspanend 5–10 % Si |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |           |                          |
| N3                 | Alu- & Cu-Legierungen kurzspanend > 10 % Si |                |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–30 m/min | ■ v <sub>c</sub> = 10–30 m/min |           |                          |
| N4                 | Graphit                                     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| S1                 | Titanlegierungen mittelfest < 900 N/mm²     |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| S2                 | Titanlegierungen hochfest < 1300 N/mm²      |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| H1                 | Hartguss und Harte Stähle 45–55 HRC         |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| d <sub>1</sub>     | P                                           | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code                       | Ident No. | LMT-Code                 |
| mit Überlaufschaft |                                             |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |
| M3                 | 0,5                                         | 56             | 11             | –              | 2,2            | –     | 3 | 2,5                                                                                 | –                              | –                              | 7465226   | TC-BM 3X0,5-6HX-ET0-11   |
| M4                 | 0,7                                         | 63             | 13             | –              | 2,8            | 2,1   | 3 | 3,3                                                                                 | –                              | –                              | 7465227   | TC-BM 4X0,7-6HX-ET0-11   |
| M5                 | 0,8                                         | 70             | 16             | –              | 3,5            | 2,7   | 3 | 4,2                                                                                 | –                              | –                              | 7465228   | TC-BM 5X0,8-6HX-ET0-11   |
| M6                 | 1                                           | 80             | 19             | –              | 4,5            | 3,4   | 3 | 5                                                                                   | –                              | –                              | 7465229   | TC-BM 6X1-6HX-ET0-11     |
| M8                 | 1,25                                        | 90             | 22             | –              | 6              | 4,9   | 3 | 6,8                                                                                 | –                              | –                              | 7465230   | TC-BM 8X1,25-6HX-ET0-11  |
| M10                | 1,5                                         | 100            | 24             | –              | 7              | 5,5   | 3 | 8,5                                                                                 | –                              | –                              | 7465231   | TC-BM 10X1,5-6HX-ET0-11  |
| M12                | 1,75                                        | 110            | 28             | –              | 9              | 7     | 3 | 10,2                                                                                | –                              | –                              | 7465217   | TC-BM 12X1,75-6HX-ET0-11 |
| M14                | 2                                           | 110            | 30             | –              | 11             | 9     | 3 | 12                                                                                  | –                              | –                              | 7465218   | TC-BM 14X2-6HX-ET0-11    |
| M16                | 2                                           | 110            | 32             | –              | 12             | 9     | 3 | 14                                                                                  | –                              | –                              | 7465219   | TC-BM 16X2-6HX-ET0-11    |
| M18                | 2,5                                         | 125            | 34             | –              | 14             | 11    | 3 | 15,5                                                                                | –                              | –                              | 7465220   | TC-BM 18X2,5-6HX-ET0-11  |
| M20                | 2,5                                         | 140            | 34             | –              | 16             | 12    | 3 | 17,5                                                                                | –                              | –                              | 7465221   | TC-BM 20X2,5-6HX-ET0-11  |
| M22                | 2,5                                         | 140            | 34             | –              | 18             | 14,5  | 3 | 19,5                                                                                | –                              | –                              | 7465222   | TC-BM 22X2,5-6HX-ET0-11  |
| M24                | 3                                           | 160            | 38             | –              | 18             | 14,5  | 3 | 21                                                                                  | –                              | –                              | 7465223   | TC-BM 24X3-6HX-ET0-11    |
| M27                | 3                                           | 160            | 38             | –              | 20             | 16    | 4 | 24                                                                                  | –                              | –                              | 7465224   | TC-BM 27X3-6HX-ET0-11    |
| M30                | 3,5                                         | 180            | 45             | –              | 22             | 18    | 4 | 26,5                                                                                | –                              | –                              | 7465225   | TC-BM 30X3,5-6HX-ET0-11  |
|                    |                                             |                |                |                |                |       |   |                                                                                     |                                |                                |           |                          |

■ = Hauptanwendung □ = Nebenanwendung

|   |       |    |     |    |              |     |       |     |                      |            |            |
|---|-------|----|-----|----|--------------|-----|-------|-----|----------------------|------------|------------|
| M | EASY. | h9 | 3xD | 0° | B<br>3,5-5,1 | 6HX | HSS-E | TiN | L <sub>1</sub><br>x2 | DIN<br>371 | DIN<br>376 |
|---|-------|----|-----|----|--------------|-----|-------|-----|----------------------|------------|------------|





| Katalog-Nr. |                                                     |  |  |  |  |  |  |  | ET01                           |  | ET01                           |  |
|-------------|-----------------------------------------------------|--|--|--|--|--|--|--|--------------------------------|--|--------------------------------|--|
| P1          | Stahl < 500 N/mm <sup>2</sup>                       |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 15–25 m/min |  | ■ v <sub>c</sub> = 15–25 m/min |  |
| P2          | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 10–20 m/min |  | ■ v <sub>c</sub> = 10–20 m/min |  |
| P3          | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 8–15 m/min  |  | ■ v <sub>c</sub> = 8–15 m/min  |  |
| M1          | Rostfreie austenitische Stähle                      |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 6–12 m/min  |  | ■ v <sub>c</sub> = 6–12 m/min  |  |
| M2          | Rostfreie martensitische Stähle < 29 HRC            |  |  |  |  |  |  |  |                                |  |                                |  |
| K1          | Grauguss                                            |  |  |  |  |  |  |  |                                |  |                                |  |
| K2          | Sphäroguss                                          |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 8–20 m/min  |  | ■ v <sub>c</sub> = 8–20 m/min  |  |
| N1          | Alu- & Cu-Legierungen langspanend < 5 % Si          |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 15–40 m/min |  | ■ v <sub>c</sub> = 15–40 m/min |  |
| N2          | Alu- & Cu-Legierungen langspanend 5–10 % Si         |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 15–40 m/min |  | ■ v <sub>c</sub> = 15–40 m/min |  |
| N3          | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 10–30 m/min |  | ■ v <sub>c</sub> = 10–30 m/min |  |
| N4          | Graphit                                             |  |  |  |  |  |  |  |                                |  |                                |  |
| S1          | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |  |  |  |  |  |  |  |                                |  |                                |  |
| S2          | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |  |  |  |  |  |  |  |                                |  |                                |  |
| H1          | Hartguss und Harte Stähle 45–55 HRC                 |  |  |  |  |  |  |  |                                |  |                                |  |

| d <sub>1</sub>                 | P    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                  | Ident No. | LMT-Code                   |
|--------------------------------|------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|---------------------------|-----------|----------------------------|
| mit verstärktem Zylinderschaft |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
| M3                             | 0,5  | 100            | 11             | 20             | 3,5            | 2,7   | 3 | 2,5                                                                                 | 7465261   | TC-BM 3X0,5-6HX-ET0-11-2  | –         | –                          |
| M4                             | 0,7  | 125            | 13             | 27             | 4,5            | 3,4   | 3 | 3,3                                                                                 | 7465262   | TC-BM 4X0,7-6HX-ET0-11-2  | –         | –                          |
| M5                             | 0,8  | 160            | 16             | 33             | 6              | 4,9   | 3 | 4,2                                                                                 | 7465263   | TC-BM 5X0,8-6HX-ET0-11-2  | –         | –                          |
| M6                             | 1    | 160            | 19             | 40             | 6              | 4,9   | 3 | 5                                                                                   | 7465264   | TC-BM 6X1-6HX-ET0-11-2    | –         | –                          |
| M8                             | 1,25 | 180            | 22             | 52,4           | 8              | 6,2   | 3 | 6,8                                                                                 | 7465265   | TC-BM 8X1,25-6HX-ET0-11-2 | –         | –                          |
| M10                            | 1,5  | 200            | 24             | 65             | 10             | 8     | 3 | 8,5                                                                                 | 7465266   | TC-BM 10X1,5-6HX-ET0-11-2 | –         | –                          |
| mit Überlaufschaft             |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
| M4                             | 0,7  | 125            | 13             | –              | 2,8            | 2,1   | 3 | 3,3                                                                                 | –         | –                         | 7465271   | TC-BM 4X0,7-6HX-ET0-11-2   |
| M5                             | 0,8  | 160            | 16             | –              | 3,5            | 2,7   | 3 | 4,2                                                                                 | –         | –                         | 7465272   | TC-BM 5X0,8-6HX-ET0-11-2   |
| M6                             | 1    | 160            | 19             | –              | 4,5            | 3,4   | 3 | 5                                                                                   | –         | –                         | 7465273   | TC-BM 6X1-6HX-ET0-11-2     |
| M8                             | 1,25 | 180            | 22             | –              | 6              | 4,9   | 3 | 6,8                                                                                 | –         | –                         | 7465274   | TC-BM 8X1,25-6HX-ET0-11-2  |
| M10                            | 1,5  | 200            | 24             | –              | 7              | 5,5   | 3 | 8,5                                                                                 | –         | –                         | 7465275   | TC-BM 10X1,5-6HX-ET0-11-2  |
| M12                            | 1,75 | 200            | 28             | –              | 9              | 7     | 3 | 10,2                                                                                | –         | –                         | 7465267   | TC-BM 12X1,75-6HX-ET0-11-2 |
| M14                            | 2    | 200            | 30             | –              | 11             | 9     | 3 | 12                                                                                  | –         | –                         | 7465268   | TC-BM 14X2-6HX-ET0-11-2    |
| M16                            | 2    | 200            | 32             | –              | 12             | 9     | 3 | 14                                                                                  | –         | –                         | 7465269   | TC-BM 16X2-6HX-ET0-11-2    |
| M20                            | 2,5  | 200            | 34             | –              | 16             | 12    | 3 | 17,5                                                                                | –         | –                         | 7465270   | TC-BM 20X2,5-6HX-ET0-11-2  |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |
|                                |      |                |                |                |                |       |   |                                                                                     |           |                           |           |                            |

■ = Hauptanwendung    □ = Nebenanwendung

|   |       |    |     |    |   |         |     |       |     |  |         |         |
|---|-------|----|-----|----|---|---------|-----|-------|-----|--|---------|---------|
| M | EASY. | h9 | 3xD | 0° | B | 3,5-5,1 | 6HX | HSS-E | TiN |  | DIN 371 | DIN 376 |
|---|-------|----|-----|----|---|---------|-----|-------|-----|--|---------|---------|

| Katalog-Nr. |                                             |  |  |  |  |  |  |  | ET01                           |                                | ET01 |  |
|-------------|---------------------------------------------|--|--|--|--|--|--|--|--------------------------------|--------------------------------|------|--|
| P1          | Stahl < 500 N/mm²                           |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 15–25 m/min | ■ v <sub>c</sub> = 15–25 m/min |      |  |
| P2          | Stahl 500–1000 N/mm², < 31 HRC              |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 10–20 m/min | ■ v <sub>c</sub> = 10–20 m/min |      |  |
| P3          | Stahl > 1000 N/mm², < 40 HRC                |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 8–15 m/min  | ■ v <sub>c</sub> = 8–15 m/min  |      |  |
| M1          | Rostfreie austenitische Stähle              |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 6–12 m/min  | ■ v <sub>c</sub> = 6–12 m/min  |      |  |
| M2          | Rostfreie martensitische Stähle < 29 HRC    |  |  |  |  |  |  |  |                                |                                |      |  |
| K1          | Grauguss                                    |  |  |  |  |  |  |  |                                |                                |      |  |
| K2          | Sphäroguss                                  |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 8–20 m/min  | ■ v <sub>c</sub> = 8–20 m/min  |      |  |
| N1          | Alu- & Cu-Legierungen langspanend < 5 % Si  |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |      |  |
| N2          | Alu- & Cu-Legierungen langspanend 5–10 % Si |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |      |  |
| N3          | Alu- & Cu-Legierungen kurzspanend > 10 % Si |  |  |  |  |  |  |  | ■ v <sub>c</sub> = 10–30 m/min | ■ v <sub>c</sub> = 10–30 m/min |      |  |
| N4          | Graphit                                     |  |  |  |  |  |  |  |                                |                                |      |  |
| S1          | Titanlegierungen mittelfest < 900 N/mm²     |  |  |  |  |  |  |  |                                |                                |      |  |
| S2          | Titanlegierungen hochfest < 1300 N/mm²      |  |  |  |  |  |  |  |                                |                                |      |  |
| H1          | Hartguss und Harte Stähle 45–55 HRC         |  |  |  |  |  |  |  |                                |                                |      |  |

| d <sub>1</sub>                 | P    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |      | Ident No. | LMT-Code                  | Ident No. | LMT-Code                   |
|--------------------------------|------|----------------|----------------|----------------|----------------|-------|---|------|-----------|---------------------------|-----------|----------------------------|
| mit verstärktem Zylinderschaft |      |                |                |                |                |       |   |      |           |                           |           |                            |
| M3                             | 0,5  | 56             | 11             | 18             | 3,5            | 2,7   | 3 | 2,5  | 7465276   | TC-BM 3X0,5-6HX-ET0-11-A  | –         | –                          |
| M4                             | 0,7  | 63             | 13             | 21             | 4,5            | 3,4   | 3 | 3,3  | 7465277   | TC-BM 4X0,7-6HX-ET0-11-A  | –         | –                          |
| M5                             | 0,8  | 70             | 16             | 25             | 6              | 4,9   | 3 | 4,2  | 7465278   | TC-BM 5X0,8-6HX-ET0-11-A  | –         | –                          |
| M6                             | 1    | 80             | 19             | 30             | 6              | 4,9   | 3 | 5    | 7465279   | TC-BM 6X1-6HX-ET0-11-A    | –         | –                          |
| M8                             | 1,25 | 90             | 22             | 35             | 8              | 6,2   | 3 | 6,8  | 7465280   | TC-BM 8X1,25-6HX-ET0-11-A | –         | –                          |
| M10                            | 1,5  | 100            | 24             | 39             | 10             | 8     | 3 | 8,5  | 7465281   | TC-BM 10X1,5-6HX-ET0-11-A | –         | –                          |
| mit Überlaufschaft             |      |                |                |                |                |       |   |      |           |                           |           |                            |
| M12                            | 1,75 | 110            | 28             | –              | 9              | 7     | 3 | 10,2 | –         | –                         | 7465282   | TC-BM 12X1,75-6HX-ET0-11-A |
| M14                            | 2    | 110            | 30             | –              | 11             | 9     | 3 | 12   | –         | –                         | 7465283   | TC-BM 14X2-6HX-ET0-11-A    |
| M16                            | 2    | 110            | 32             | –              | 12             | 9     | 3 | 14   | –         | –                         | 7465284   | TC-BM 16X2-6HX-ET0-11-A    |
| M20                            | 2,5  | 140            | 34             | –              | 16             | 12    | 3 | 17,5 | –         | –                         | 7465285   | TC-BM 20X2,5-6HX-ET0-11-A  |
| M24                            | 3    | 160            | 38             | –              | 18             | 14,5  | 3 | 21   | –         | –                         | 7465286   | TC-BM 24X3-6HX-ET0-11-A    |

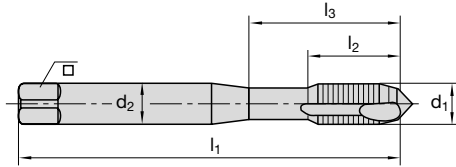
■ = Hauptanwendung    □ = Nebenanwendung

|   |       |    |       |     |   |     |       |     |         |         |
|---|-------|----|-------|-----|---|-----|-------|-----|---------|---------|
| M | EASY. | h9 | 2-3xD | 45° | C | 6GX | HSS-E | TiN | DIN 371 | DIN 376 |
|---|-------|----|-------|-----|---|-----|-------|-----|---------|---------|

| Katalog-Nr. |                                             | ET01                           | ET01                           |
|-------------|---------------------------------------------|--------------------------------|--------------------------------|
| P1          | Stahl < 500 N/mm²                           | ■ v <sub>c</sub> = 15–25 m/min | ■ v <sub>c</sub> = 15–25 m/min |
| P2          | Stahl 500–1000 N/mm², < 31 HRC              | ■ v <sub>c</sub> = 10–20 m/min | ■ v <sub>c</sub> = 10–20 m/min |
| P3          | Stahl > 1000 N/mm², < 40 HRC                | ■ v <sub>c</sub> = 8–15 m/min  | ■ v <sub>c</sub> = 8–15 m/min  |
| M1          | Rostfreie austenitische Stähle              | ■ v <sub>c</sub> = 6–12 m/min  | ■ v <sub>c</sub> = 6–12 m/min  |
| M2          | Rostfreie martensitische Stähle < 29 HRC    |                                |                                |
| K1          | Grauguss                                    |                                |                                |
| K2          | Sphäroguss                                  | ■ v <sub>c</sub> = 8–20 m/min  | ■ v <sub>c</sub> = 8–20 m/min  |
| N1          | Alu- & Cu-Legierungen langspanend < 5 % Si  | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |
| N2          | Alu- & Cu-Legierungen langspanend 5–10 % Si | ■ v <sub>c</sub> = 15–40 m/min | ■ v <sub>c</sub> = 15–40 m/min |
| N3          | Alu- & Cu-Legierungen kurzspanend > 10 % Si | ■ v <sub>c</sub> = 10–30 m/min | ■ v <sub>c</sub> = 10–30 m/min |
| N4          | Graphit                                     |                                |                                |
| S1          | Titanlegierungen mittelfest < 900 N/mm²     |                                |                                |
| S2          | Titanlegierungen hochfest < 1300 N/mm²      |                                |                                |
| H1          | Hartguss und Harte Stähle 45–55 HRC         |                                |                                |

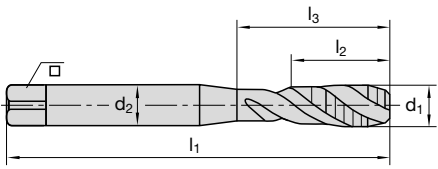
| d <sub>1</sub>                 | P    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |      | Ident No. | LMT-Code                 | Ident No. | LMT-Code                  |
|--------------------------------|------|----------------|----------------|----------------|----------------|-------|---|------|-----------|--------------------------|-----------|---------------------------|
| mit verstärktem Zylinderschaft |      |                |                |                |                |       |   |      |           |                          |           |                           |
| M2                             | 0,4  | 45             | 3,2            | 10             | 2,8            | 2,1   | 2 | 1,6  | 7465335   | TC-CM 2X0,4-6GX-ET45-11  | –         | –                         |
| M3                             | 0,5  | 56             | 4              | 18             | 3,5            | 2,7   | 3 | 2,5  | 7465336   | TC-CM 3X0,5-6GX-ET45-11  | –         | –                         |
| M4                             | 0,7  | 63             | 5,6            | 21             | 4,5            | 3,4   | 3 | 3,3  | 7465337   | TC-CM 4X0,7-6GX-ET45-11  | –         | –                         |
| M5                             | 0,8  | 70             | 6,4            | 25             | 6              | 4,9   | 3 | 4,2  | 7465338   | TC-CM 5X0,8-6GX-ET45-11  | –         | –                         |
| M6                             | 1    | 80             | 8              | 30             | 6              | 4,9   | 3 | 5    | 7465339   | TC-CM 6X1-6GX-ET45-11    | –         | –                         |
| M8                             | 1,25 | 90             | 10             | 35             | 8              | 6,2   | 3 | 6,8  | 7465340   | TC-CM 8X1,25-6GX-ET45-11 | –         | –                         |
| M10                            | 1,5  | 100            | 12             | 39             | 10             | 8     | 3 | 8,5  | 7465341   | TC-CM 10X1,5-6GX-ET45-11 | –         | –                         |
| mit Überlaufschaft             |      |                |                |                |                |       |   |      |           |                          |           |                           |
| M12                            | 1,75 | 110            | 14             | –              | 9              | 7     | 3 | 10,2 | –         | –                        | 7465342   | TC-CM 12X1,75-6GX-ET45-11 |
| M14                            | 2    | 110            | 16             | –              | 11             | 9     | 3 | 12   | –         | –                        | 7465343   | TC-CM 14X2-6GX-ET45-11    |
| M16                            | 2    | 110            | 16             | –              | 12             | 9     | 3 | 14   | –         | –                        | 7465344   | TC-CM 16X2-6GX-ET45-11    |
| M20                            | 2,5  | 140            | 25             | –              | 16             | 12    | 4 | 17,5 | –         | –                        | 7465345   | TC-CM 20X2,5-6GX-ET45-11  |
| M24                            | 3    | 160            | 30             | –              | 18             | 14,5  | 4 | 21   | –         | –                        | 7465346   | TC-CM 24X3-6GX-ET45-11    |

■ = Hauptanwendung    □ = Nebenanwendung



| Katalog-Nr.                    |                                             |                |                |                |                |       |   |                                                                                     | ET01      |                              | ET01      |                              |
|--------------------------------|---------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|------------------------------|-----------|------------------------------|
| P1                             | Stahl < 500 N/mm²                           |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min | ■         | v <sub>c</sub> = 15–25 m/min |
| P2                             | Stahl 500–1000 N/mm², < 31 HRC              |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min | ■         | v <sub>c</sub> = 10–20 m/min |
| P3                             | Stahl > 1000 N/mm², < 40 HRC                |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  | ■         | v <sub>c</sub> = 8–15 m/min  |
| M1                             | Rostfreie austenitische Stähle              |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  | ■         | v <sub>c</sub> = 6–12 m/min  |
| M2                             | Rostfreie martensitische Stähle < 29 HRC    |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| K1                             | Grauguss                                    |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| K2                             | Sphäroguss                                  |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  | ■         | v <sub>c</sub> = 8–20 m/min  |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si  |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min | ■         | v <sub>c</sub> = 15–40 m/min |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min | ■         | v <sub>c</sub> = 15–40 m/min |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min | ■         | v <sub>c</sub> = 10–30 m/min |
| N4                             | Graphit                                     |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| S1                             | Titanlegierungen mittelfest < 900 N/mm²     |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| S2                             | Titanlegierungen hochfest < 1300 N/mm²      |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| H1                             | Hartguss und Harte Stähle 45–55 HRC         |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| d <sub>1</sub>                 | P                                           | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                     | Ident No. | LMT-Code                     |
| mit verstärktem Zylinderschaft |                                             |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| M2                             | 0,4                                         | 45             | 8              | –              | 2,8            | 2,1   | 2 | 1,6                                                                                 | 7465232   | TC-BM 2X0,4-6GX-ET0-11       | –         | –                            |
| M3                             | 0,5                                         | 56             | 11             | 18             | 3,5            | 2,7   | 3 | 2,5                                                                                 | 7465233   | TC-BM 3X0,5-6GX-ET0-11       | –         | –                            |
| M4                             | 0,7                                         | 63             | 13             | 21             | 4,5            | 3,4   | 3 | 3,3                                                                                 | 7465234   | TC-BM 4X0,7-6GX-ET0-11       | –         | –                            |
| M5                             | 0,8                                         | 70             | 16             | 25             | 6              | 4,9   | 3 | 4,2                                                                                 | 7465235   | TC-BM 5X0,8-6GX-ET0-11       | –         | –                            |
| M6                             | 1                                           | 80             | 19             | 30             | 6              | 4,9   | 3 | 5                                                                                   | 7465236   | TC-BM 6X1-6GX-ET0-11         | –         | –                            |
| M8                             | 1,25                                        | 90             | 22             | 35             | 8              | 6,2   | 3 | 6,8                                                                                 | 7465237   | TC-BM 8X1,25-6GX-ET0-11      | –         | –                            |
| M10                            | 1,5                                         | 100            | 24             | 39             | 10             | 8     | 3 | 8,5                                                                                 | 7465238   | TC-BM 10X1,5-6GX-ET0-11      | –         | –                            |
| mit Überlaufschaft             |                                             |                |                |                |                |       |   |                                                                                     |           |                              |           |                              |
| M12                            | 1,75                                        | 110            | 28             | –              | 9              | 7     | 3 | 10,2                                                                                | –         | –                            | 7465239   | TC-BM 12X1,75-6GX-ET0-11     |
| M14                            | 2                                           | 110            | 30             | –              | 11             | 9     | 3 | 12                                                                                  | –         | –                            | 7465240   | TC-BM 14X2-6GX-ET0-11        |
| M16                            | 2                                           | 110            | 32             | –              | 12             | 9     | 3 | 14                                                                                  | –         | –                            | 7465241   | TC-BM 16X2-6GX-ET0-11        |
| M20                            | 2,5                                         | 140            | 34             | –              | 16             | 12    | 3 | 17,5                                                                                | –         | –                            | 7465242   | TC-BM 20X2,5-6GX-ET0-11      |
| M24                            | 3                                           | 160            | 38             | –              | 18             | 14,5  | 3 | 21                                                                                  | –         | –                            | 7465243   | TC-BM 24X3-6GX-ET0-11        |

■ = Hauptanwendung □ = Nebenanwendung

| <div> <div>M</div> <div>EASY.</div> <div>h9</div> <div>2-3xD</div> <div>45°</div> <div>C</div> <div>6H</div> <div>+1/10<sup>1)</sup></div> <div>HSS-E</div> <div>TiN</div> <div>DIN 371</div> <div>DIN 376</div> </div> |                                                     |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|--------------------------------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------|-------------------------|------------------------------|
|                                                      |                                                     |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| <b>Katalog-Nr.</b>                                                                                                                                                                                                      |                                                     |                |                |                |                |       | <b>ET01</b>                    |                                                                                     |                         | <b>ET01</b>                    |                         |                              |
| <b>P1</b>                                                                                                                                                                                                               | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       | ■ v <sub>c</sub> = 15–25 m/min |                                                                                     |                         | ■ v <sub>c</sub> = 15–25 m/min |                         |                              |
| <b>P2</b>                                                                                                                                                                                                               | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       | ■ v <sub>c</sub> = 10–20 m/min |                                                                                     |                         | ■ v <sub>c</sub> = 10–20 m/min |                         |                              |
| <b>P3</b>                                                                                                                                                                                                               | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       | ■ v <sub>c</sub> = 8–15 m/min  |                                                                                     |                         | ■ v <sub>c</sub> = 8–15 m/min  |                         |                              |
| <b>M1</b>                                                                                                                                                                                                               | Rostfreie austenitische Stähle                      |                |                |                |                |       | ■ v <sub>c</sub> = 6–12 m/min  |                                                                                     |                         | ■ v <sub>c</sub> = 6–12 m/min  |                         |                              |
| <b>M2</b>                                                                                                                                                                                                               | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| <b>K1</b>                                                                                                                                                                                                               | Grauguss                                            |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| <b>K2</b>                                                                                                                                                                                                               | Sphäroguss                                          |                |                |                |                |       | ■ v <sub>c</sub> = 8–20 m/min  |                                                                                     |                         | ■ v <sub>c</sub> = 8–20 m/min  |                         |                              |
| <b>N1</b>                                                                                                                                                                                                               | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       | ■ v <sub>c</sub> = 15–40 m/min |                                                                                     |                         | ■ v <sub>c</sub> = 15–40 m/min |                         |                              |
| <b>N2</b>                                                                                                                                                                                                               | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       | ■ v <sub>c</sub> = 15–40 m/min |                                                                                     |                         | ■ v <sub>c</sub> = 15–40 m/min |                         |                              |
| <b>N3</b>                                                                                                                                                                                                               | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       | ■ v <sub>c</sub> = 10–30 m/min |                                                                                     |                         | ■ v <sub>c</sub> = 10–30 m/min |                         |                              |
| <b>N4</b>                                                                                                                                                                                                               | Graphit                                             |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| <b>S1</b>                                                                                                                                                                                                               | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| <b>S2</b>                                                                                                                                                                                                               | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| <b>H1</b>                                                                                                                                                                                                               | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| d <sub>1</sub>                                                                                                                                                                                                          | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z                              |  | Ident No.               | LMT-Code                       | Ident No.               | LMT-Code                     |
| <b>mit verstärktem Zylinderschaft</b>                                                                                                                                                                                   |                                                     |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| M2                                                                                                                                                                                                                      | 0,4                                                 | 45             | 3,2            | 10             | 2,8            | 2,1   | 2                              | 1,6                                                                                 | <a href="#">7491485</a> | TC-CM 2X0,4-6H+0.1-ET45-11     | –                       | –                            |
| M3                                                                                                                                                                                                                      | 0,5                                                 | 56             | 4              | 18             | 3,5            | 2,7   | 3                              | 2,6                                                                                 | <a href="#">7465356</a> | TC-CM 3X0,5-6H+0.1-ET45-11     | –                       | –                            |
| M4                                                                                                                                                                                                                      | 0,7                                                 | 63             | 5,6            | 21             | 4,5            | 3,4   | 3                              | 3,4                                                                                 | <a href="#">7465357</a> | TC-CM 4X0,7-6H+0.1-ET45-11     | –                       | –                            |
| M5                                                                                                                                                                                                                      | 0,8                                                 | 70             | 6,4            | 25             | 6              | 4,9   | 3                              | 4,3                                                                                 | <a href="#">7465358</a> | TC-CM 5X0,8-6H+0.1-ET45-11     | –                       | –                            |
| M6                                                                                                                                                                                                                      | 1                                                   | 80             | 8              | 30             | 6              | 4,9   | 3                              | 5,1                                                                                 | <a href="#">7465359</a> | TC-CM 6X1-6H+0.1-ET45-11       | –                       | –                            |
| M8                                                                                                                                                                                                                      | 1,25                                                | 90             | 10             | 35             | 8              | 6,2   | 3                              | 6,9                                                                                 | <a href="#">7465360</a> | TC-CM 8X1,25-6H+0.1-ET45-11    | –                       | –                            |
| M10                                                                                                                                                                                                                     | 1,5                                                 | 100            | 12             | 39             | 10             | 8     | 3                              | 8,6                                                                                 | <a href="#">7465361</a> | TC-CM 10X1,5-6H+0.1-ET45-11    | –                       | –                            |
| <b>mit Überlaufschaft</b>                                                                                                                                                                                               |                                                     |                |                |                |                |       |                                |                                                                                     |                         |                                |                         |                              |
| M12                                                                                                                                                                                                                     | 1,75                                                | 110            | 14             | –              | 9              | 7     | 3                              | 10,3                                                                                | –                       | –                              | <a href="#">7465362</a> | TC-CM 12X1,75-6H+0.1-ET45-11 |
| M16                                                                                                                                                                                                                     | 2                                                   | 110            | 16             | –              | 12             | 9     | 3                              | 14,1                                                                                | –                       | –                              | <a href="#">7465363</a> | TC-CM 16X2-6H+0.1-ET45-11    |

<sup>1)</sup> Toleranzklasse 6H+0,1

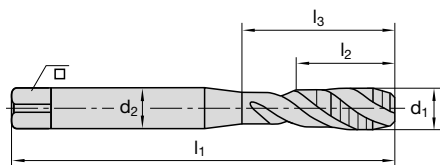
■ = Hauptanwendung    □ = Nebenanwendung



| <div> <div>M</div> <div>EASY.</div> <div>h9</div> <div>3xD</div> <div>0°</div> <div>B</div> <div>6H</div> <div>+1/10<sup>1)</sup></div> <div>HSS-E</div> <div>TiN</div> <div>DIN 371</div> <div>DIN 376</div> </div> |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|--------------------------------|------|-----------|--------------------------------|-----------|-----------------------------|
|                                                                                                                                                                                                                      |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>Katalog-Nr.</b>                                                                                                                                                                                                   |                                                     |                |                |                |                |       | <b>ET01</b>                    |      |           | <b>ET01</b>                    |           |                             |
| <b>P1</b>                                                                                                                                                                                                            | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       | ■ v <sub>c</sub> = 15–25 m/min |      |           | ■ v <sub>c</sub> = 15–25 m/min |           |                             |
| <b>P2</b>                                                                                                                                                                                                            | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       | ■ v <sub>c</sub> = 10–20 m/min |      |           | ■ v <sub>c</sub> = 10–20 m/min |           |                             |
| <b>P3</b>                                                                                                                                                                                                            | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       | ■ v <sub>c</sub> = 8–15 m/min  |      |           | ■ v <sub>c</sub> = 8–15 m/min  |           |                             |
| <b>M1</b>                                                                                                                                                                                                            | Rostfreie austenitische Stähle                      |                |                |                |                |       | ■ v <sub>c</sub> = 6–12 m/min  |      |           | ■ v <sub>c</sub> = 6–12 m/min  |           |                             |
| <b>M2</b>                                                                                                                                                                                                            | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>K1</b>                                                                                                                                                                                                            | Grauguss                                            |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>K2</b>                                                                                                                                                                                                            | Sphäroguss                                          |                |                |                |                |       | ■ v <sub>c</sub> = 8–20 m/min  |      |           | ■ v <sub>c</sub> = 8–20 m/min  |           |                             |
| <b>N1</b>                                                                                                                                                                                                            | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       | ■ v <sub>c</sub> = 15–40 m/min |      |           | ■ v <sub>c</sub> = 15–40 m/min |           |                             |
| <b>N2</b>                                                                                                                                                                                                            | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       | ■ v <sub>c</sub> = 15–40 m/min |      |           | ■ v <sub>c</sub> = 15–40 m/min |           |                             |
| <b>N3</b>                                                                                                                                                                                                            | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       | ■ v <sub>c</sub> = 10–30 m/min |      |           | ■ v <sub>c</sub> = 10–30 m/min |           |                             |
| <b>N4</b>                                                                                                                                                                                                            | Graphit                                             |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>S1</b>                                                                                                                                                                                                            | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>S2</b>                                                                                                                                                                                                            | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |                                |      |           |                                |           |                             |
| <b>H1</b>                                                                                                                                                                                                            | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |                                |      |           |                                |           |                             |
| d <sub>1</sub>                                                                                                                                                                                                       | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z                              |      | Ident No. | LMT-Code                       | Ident No. | LMT-Code                    |
| <b>mit verstärktem Zylinderschaft</b>                                                                                                                                                                                |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
| M2                                                                                                                                                                                                                   | 0,4                                                 | 45             | 8              | 10             | 2,8            | 2,1   | 2                              | 1,6  | 7491484   | TC-BM 2X0,4-6H+0.1-ET0-11      | –         | –                           |
| M3                                                                                                                                                                                                                   | 0,5                                                 | 56             | 11             | 18             | 3,5            | 2,7   | 3                              | 2,6  | 7465253   | TC-BM 3X0,5-6H+0.1-ET0-11      | –         | –                           |
| M4                                                                                                                                                                                                                   | 0,7                                                 | 63             | 13             | 21             | 4,5            | 3,4   | 3                              | 3,4  | 7465254   | TC-BM 4X0,7-6H+0.1-ET0-11      | –         | –                           |
| M5                                                                                                                                                                                                                   | 0,8                                                 | 70             | 16             | 25             | 6              | 4,9   | 3                              | 4,3  | 7465255   | TC-BM 5X0,8-6H+0.1-ET0-11      | –         | –                           |
| M6                                                                                                                                                                                                                   | 1                                                   | 80             | 19             | 30             | 6              | 4,9   | 3                              | 5,1  | 7465256   | TC-BM 6X1-6H+0.1-ET0-11        | –         | –                           |
| M8                                                                                                                                                                                                                   | 1,25                                                | 90             | 22             | 35             | 8              | 6,2   | 3                              | 6,9  | 7465257   | TC-BM 8X1,25-6H+0.1-ET0-11     | –         | –                           |
| M10                                                                                                                                                                                                                  | 1,5                                                 | 100            | 24             | 39             | 10             | 8     | 3                              | 8,6  | 7465258   | TC-BM 10X1,5-6H+0.1-ET0-11     | –         | –                           |
| <b>mit Überlaufschaft</b>                                                                                                                                                                                            |                                                     |                |                |                |                |       |                                |      |           |                                |           |                             |
| M12                                                                                                                                                                                                                  | 1,75                                                | 110            | 28             | –              | 9              | 7     | 3                              | 10,3 | –         | –                              | 7465259   | TC-BM 12X1,75-6H+0.1-ET0-11 |
| M16                                                                                                                                                                                                                  | 2                                                   | 110            | 32             | –              | 12             | 9     | 3                              | 14,1 | –         | –                              | 7465260   | TC-BM 16X2-6H+0.1-ET0-11    |

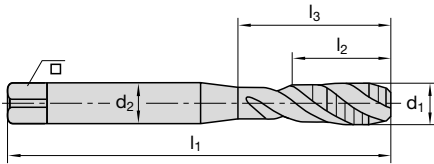
<sup>1)</sup> Toleranzklasse 6H+0,1

■ = Hauptanwendung      □ = Nebenanwendung



| Katalog-Nr.        |                                                     |                |                |                |       |   |                                                                                     | ET01      |                              |
|--------------------|-----------------------------------------------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|------------------------------|
| P1                 | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min |
| P2                 | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min |
| P3                 | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  |
| M1                 | Rostfreie austenitische Stähle                      |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  |
| M2                 | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |       |   |                                                                                     |           |                              |
| K1                 | Grauguss                                            |                |                |                |       |   |                                                                                     |           |                              |
| K2                 | Sphäroguss                                          |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  |
| N1                 | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |
| N2                 | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |
| N3                 | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min |
| N4                 | Graphit                                             |                |                |                |       |   |                                                                                     |           |                              |
| S1                 | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |       |   |                                                                                     |           |                              |
| S2                 | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |       |   |                                                                                     |           |                              |
| H1                 | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |       |   |                                                                                     |           |                              |
| d <sub>1</sub>     | P                                                   | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                     |
| mit Überlaufschaft |                                                     |                |                |                |       |   |                                                                                     |           |                              |
| MF 2,5             | 0,35                                                | 50             | 9              | –              | 1,8   | 2 | 2,15                                                                                | 7465439   | TC-CMF 2,5X0,35-6HX-ET45-11  |
| MF 2,6             | 0,35                                                | 50             | 9              | –              | 1,8   | 2 | 2,25                                                                                | 7465440   | TC-CMF 2,6X0,35-6HX-ET45-11  |
| MF 3               | 0,35                                                | 56             | 4              | –              | 2,2   | 3 | 2,65                                                                                | 7465441   | TC-CMF 3X0,35-6HX-ET45-11    |
| MF 3,5             | 0,35                                                | 56             | 4,8            | –              | 2,5   | 3 | 3,15                                                                                | 7465442   | TC-CMF 3,5X0,35-6HX-ET45-11  |
| MF 4               | 0,35                                                | 63             | 5,6            | –              | 2,8   | 3 | 3,65                                                                                | 7465443   | TC-CMF 4X0,35-6HX-ET45-11    |
| MF 4               | 0,5                                                 | 63             | 5,6            | –              | 2,8   | 3 | 3,5                                                                                 | 7465444   | TC-CMF 4X0,5-6HX-ET45-11     |
| MF 4,5             | 0,5                                                 | 70             | 6              | –              | 3,5   | 3 | 4                                                                                   | 7465445   | TC-CMF 4,5X0,5-6HX-ET45-11   |
| MF 5               | 0,5                                                 | 70             | 6,4            | –              | 3,5   | 3 | 4,5                                                                                 | 7465446   | TC-CMF 5X0,5-6HX-ET45-11     |
| MF 6               | 0,5                                                 | 80             | 8              | 4,5            | 3,4   | 3 | 5,5                                                                                 | 7465447   | TC-CMF 6X0,5-6HX-ET45-11     |
| MF 6               | 0,75                                                | 80             | 8              | 4,5            | 3,4   | 3 | 5,25                                                                                | 7465448   | TC-CMF 6X0,75-6HX-ET45-11    |
| MF 6,5             | 0,75                                                | 80             | 8              | –              | 5,5   | 3 | 5,75                                                                                | 7465449   | TC-CMF 6,5X0,75-6HX-ET45-11  |
| MF 8               | 0,75                                                | 80             | 8              | 6              | 4,9   | 3 | 6,5                                                                                 | 7465451   | TC-CMF 8X0,75-6HX-ET45-11    |
| MF 8               | 1                                                   | 90             | 10             | 6              | 4,9   | 3 | 7,25                                                                                | 7465452   | TC-CMF 8X1-6HX-ET45-11       |
| MF 10              | 1                                                   | 90             | 10             | 7              | 5,5   | 3 | 7                                                                                   | 7465455   | TC-CMF 10X1-6HX-ET45-11      |
| MF 10              | 1,25                                                | 100            | 12             | 7              | 5,5   | 3 | 8                                                                                   | 7465456   | TC-CMF 10X1,25-6HX-ET45-11   |
| MF 12              | 1                                                   | 100            | 12             | 9              | 7     | 3 | 11                                                                                  | 7465460   | TC-CMF 12X1-6HX-ET45-11      |
| MF 12              | 1,25                                                | 100            | 12             | 9              | 7     | 3 | 10,75                                                                               | 7465461   | TC-CMF 12X1,25-6HX-ET45-11   |
| MF 12              | 1,5                                                 | 100            | 14             | 9              | 7     | 3 | 10,5                                                                                | 7465462   | TC-CMF 12X1,5-6HX-ET45-11    |
| MF 14              | 1,5                                                 | 100            | 16             | 11             | 9     | 3 | 12,5                                                                                | 7465464   | TC-CMF 14X1,5-6HX-ET45-11    |
| MF 16              | 1,5                                                 | 100            | 16             | 12             | 9     | 3 | 14,5                                                                                | 7465465   | TC-CMF 16X1,5-6HX-ET45-11    |
| MF 18              | 1,5                                                 | 110            | 16             | 14             | 11    | 4 | 16,5                                                                                | 7465467   | TC-CMF 18X1,5-6HX-ET45-11    |
| MF 20              | 1,5                                                 | 125            | 16             | 16             | 12    | 4 | 18,5                                                                                | 7465468   | TC-CMF 20X1,5-6HX-ET45-11    |
| MF 22              | 1,5                                                 | 125            | 16             | 18             | 14,5  | 4 | 20,5                                                                                | 7465469   | TC-CMF 22X1,5-6HX-ET45-11    |
| MF 24              | 1,5                                                 | 140            | 16             | 18             | 14,5  | 4 | 22,5                                                                                | 7465470   | TC-CMF 24X1,5-6HX-ET45-11    |
| MF 26              | 1,5                                                 | 140            | 24             | –              | 18    | 4 | 24,5                                                                                | 7465471   | TC-CMF 26X1,5-6HX-ET45-11    |
| MF 30              | 1,5                                                 | 150            | 36             | –              | 22    | 4 | 28,5                                                                                | 7465472   | TC-CMF 30X1,5-6HX-ET45-11    |

■ = Hauptanwendung      □ = Nebenanwendung



**Katalog-Nr.**

**ET01**

|           |                                                     |                                |
|-----------|-----------------------------------------------------|--------------------------------|
| <b>P1</b> | Stahl < 500 N/mm <sup>2</sup>                       | ■ v <sub>c</sub> = 15–25 m/min |
| <b>P2</b> | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         | ■ v <sub>c</sub> = 10–20 m/min |
| <b>P3</b> | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           | ■ v <sub>c</sub> = 8–15 m/min  |
| <b>M1</b> | Rostfreie austenitische Stähle                      | ■ v <sub>c</sub> = 6–12 m/min  |
| <b>M2</b> | Rostfreie martensitische Stähle < 29 HRC            |                                |
| <b>K1</b> | Grauguss                                            |                                |
| <b>K2</b> | Sphäroguss                                          | ■ v <sub>c</sub> = 8–20 m/min  |
| <b>N1</b> | Alu- & Cu-Legierungen langspanend < 5 % Si          | ■ v <sub>c</sub> = 15–40 m/min |
| <b>N2</b> | Alu- & Cu-Legierungen langspanend 5–10 % Si         | ■ v <sub>c</sub> = 15–40 m/min |
| <b>N3</b> | Alu- & Cu-Legierungen kurzspanend > 10 % Si         | ■ v <sub>c</sub> = 10–30 m/min |
| <b>N4</b> | Graphit                                             |                                |
| <b>S1</b> | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                                |
| <b>S2</b> | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                                |
| <b>H1</b> | Hartguss und Harte Stähle 45–55 HRC                 |                                |

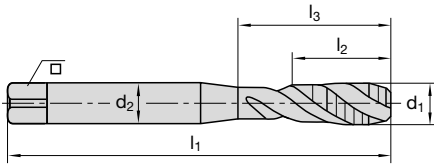
| d <sub>1</sub> | P | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code |
|----------------|---|----------------|----------------|----------------|-------|---|--|-----------|----------|
|----------------|---|----------------|----------------|----------------|-------|---|--|-----------|----------|

**mit Überlaufschaft**

|       |      |     |    |    |     |   |       |                         |                              |
|-------|------|-----|----|----|-----|---|-------|-------------------------|------------------------------|
| MF 8  | 1    | 180 | 10 | 6  | 4,9 | 3 | 7     | <a href="#">7465473</a> | TC-CMF 8X1-6HX-ET45-11-2     |
| MF 10 | 1    | 180 | 10 | 7  | 5,5 | 3 | 9     | <a href="#">7465474</a> | TC-CMF 10X1-6HX-ET45-11-2    |
| MF 10 | 1,25 | 200 | 12 | 7  | 5,5 | 3 | 8,75  | <a href="#">7465475</a> | TC-CMF 10X1,25-6HX-ET45-11-2 |
| MF 12 | 1,25 | 200 | 12 | 9  | 7   | 3 | 10,75 | <a href="#">7465476</a> | TC-CMF 12X1,25-6HX-ET45-11-2 |
| MF 12 | 1,5  | 200 | 14 | 9  | 7   | 3 | 10,5  | <a href="#">7465477</a> | TC-CMF 12X1,5-6HX-ET45-11-2  |
| MF 14 | 1,5  | 200 | 16 | 11 | 9   | 3 | 12,5  | <a href="#">7491487</a> | TC-CMF 14X1,5-6HX-ET45-11-2  |
| MF 16 | 1,5  | 200 | 16 | 12 | 9   | 3 | 14,5  | <a href="#">7465478</a> | TC-CMF 16X1,5-6HX-ET45-11-2  |
| MF 20 | 1,5  | 250 | 16 | 16 | 12  | 4 | 18,5  | <a href="#">7465479</a> | TC-CMF 20X1,5-6HX-ET45-11-2  |

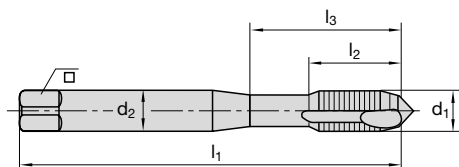
■ = Hauptanwendung

□ = Nebenanwendung



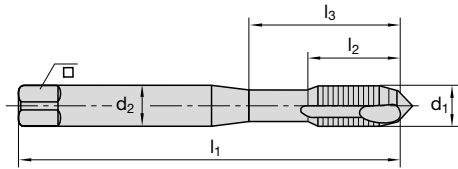
| Katalog-Nr.        |                                                     |                |                |                |       |   |       | ET01                           |                              |
|--------------------|-----------------------------------------------------|----------------|----------------|----------------|-------|---|-------|--------------------------------|------------------------------|
| P1                 | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |       |   |       | ■ v <sub>c</sub> = 15–25 m/min |                              |
| P2                 | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |       |   |       | ■ v <sub>c</sub> = 10–20 m/min |                              |
| P3                 | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |       |   |       | ■ v <sub>c</sub> = 8–15 m/min  |                              |
| M1                 | Rostfreie austenitische Stähle                      |                |                |                |       |   |       | ■ v <sub>c</sub> = 6–12 m/min  |                              |
| M2                 | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |       |   |       |                                |                              |
| K1                 | Grauguss                                            |                |                |                |       |   |       |                                |                              |
| K2                 | Sphäroguss                                          |                |                |                |       |   |       | ■ v <sub>c</sub> = 8–20 m/min  |                              |
| N1                 | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |       |   |       | ■ v <sub>c</sub> = 15–40 m/min |                              |
| N2                 | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |       |   |       | ■ v <sub>c</sub> = 15–40 m/min |                              |
| N3                 | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |       |   |       | ■ v <sub>c</sub> = 10–30 m/min |                              |
| N4                 | Graphit                                             |                |                |                |       |   |       |                                |                              |
| S1                 | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |       |   |       |                                |                              |
| S2                 | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |       |   |       |                                |                              |
| H1                 | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |       |   |       |                                |                              |
| d <sub>1</sub>     | P                                                   | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |       | Ident No.                      | LMT-Code                     |
| mit Überlaufschaft |                                                     |                |                |                |       |   |       |                                |                              |
| MF 8               | 1                                                   | 90             | 10             | 6              | 4,9   | 3 | 7     | 7465480                        | TC-CMF 8X1-6HX-ET45-11-A     |
| MF 10              | 1                                                   | 90             | 10             | 7              | 5,5   | 3 | 9     | 7465481                        | TC-CMF 10X1-6HX-ET45-11-A    |
| MF 10              | 1,25                                                | 100            | 12             | 7              | 5,5   | 3 | 8,75  | 7465482                        | TC-CMF 10X1,25-6HX-ET45-11-A |
| MF 12              | 1,25                                                | 100            | 12             | 9              | 7     | 3 | 10,75 | 7465483                        | TC-CMF 12X1,25-6HX-ET45-11-A |
| MF 12              | 1,5                                                 | 100            | 14             | 9              | 7     | 3 | 10,5  | 7465484                        | TC-CMF 12X1,5-6HX-ET45-11-A  |
| MF 16              | 1,5                                                 | 100            | 16             | 12             | 9     | 3 | 14,5  | 7465485                        | TC-CMF 16X1,5-6HX-ET45-11-A  |
| MF 20              | 1,5                                                 | 125            | 16             | 16             | 12    | 4 | 18,5  | 7465486                        | TC-CMF 20X1,5-6HX-ET45-11-A  |
| MF 24              | 1,5                                                 | 140            | 16             | 18             | 14,5  | 4 | 22,5  | 7465487                        | TC-CMF 24X1,5-6HX-ET45-11-A  |

■ = Hauptanwendung    □ = Nebenanwendung

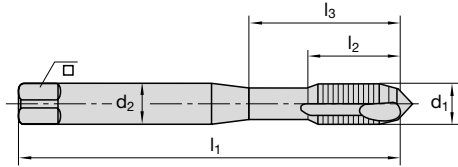


| Katalog-Nr.        |                                                     |                |                |                |       |   |                                                                                     | ET01                           |                            |
|--------------------|-----------------------------------------------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|----------------------------|
| P1                 | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–25 m/min |                            |
| P2                 | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–20 m/min |                            |
| P3                 | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–15 m/min  |                            |
| M1                 | Rostfreie austenitische Stähle                      |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 6–12 m/min  |                            |
| M2                 | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |       |   |                                                                                     |                                |                            |
| K1                 | Grauguss                                            |                |                |                |       |   |                                                                                     |                                |                            |
| K2                 | Sphäroguss                                          |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–20 m/min  |                            |
| N1                 | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min |                            |
| N2                 | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min |                            |
| N3                 | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–30 m/min |                            |
| N4                 | Graphit                                             |                |                |                |       |   |                                                                                     |                                |                            |
| S1                 | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |       |   |                                                                                     |                                |                            |
| S2                 | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |       |   |                                                                                     |                                |                            |
| H1                 | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |       |   |                                                                                     |                                |                            |
| d <sub>1</sub>     | P                                                   | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code                   |
| mit Überlaufschaft |                                                     |                |                |                |       |   |                                                                                     |                                |                            |
| MF 2,5             | 0,35                                                | 50             | 9              | 1,8            | –     | 2 | 2,15                                                                                | 7465390                        | TC-BMF 2,5X0,35-6HX-ET0-11 |
| MF 2,6             | 0,35                                                | 50             | 9              | 1,8            | –     | 2 | 2,25                                                                                | 7465391                        | TC-BMF 2,6X0,35-6HX-ET0-11 |
| MF 3               | 0,35                                                | 56             | 8              | 2,2            | –     | 3 | 2,65                                                                                | 7465392                        | TC-BMF 3X0,35-6HX-ET0-11   |
| MF 3,5             | 0,35                                                | 56             | 9              | 2,5            | 2,1   | 3 | 3,15                                                                                | 7465393                        | TC-BMF 3,5X0,35-6HX-ET0-11 |
| MF 4               | 0,35                                                | 63             | 10             | 2,8            | 2,1   | 3 | 3,65                                                                                | 7465394                        | TC-BMF 4X0,35-6HX-ET0-11   |
| MF 4               | 0,5                                                 | 63             | 10             | 2,8            | 2,1   | 3 | 3,5                                                                                 | 7465395                        | TC-BMF 4X0,5-6HX-ET0-11    |
| MF 4,5             | 0,5                                                 | 70             | 12             | 3,5            | 2,7   | 3 | 4                                                                                   | 7465396                        | TC-BMF 4,5X0,5-6HX-ET0-11  |
| MF 5               | 0,5                                                 | 70             | 16             | 3,5            | 2,7   | 3 | 4,5                                                                                 | 7465397                        | TC-BMF 5X0,5-6HX-ET0-11    |
| MF 6               | 0,5                                                 | 80             | 14             | 4,5            | 3,4   | 3 | 5,5                                                                                 | 7465398                        | TC-BMF 6X0,5-6HX-ET0-11    |
| MF 6               | 0,75                                                | 80             | 14             | 4,5            | 3,4   | 3 | 5,25                                                                                | 7465399                        | TC-BMF 6X0,75-6HX-ET0-11   |
| MF 6,5             | 0,75                                                | 80             | 14             | 5,5            | 4,3   | 3 | 5,75                                                                                | 7465400                        | TC-BMF 6,5X0,75-6HX-ET0-11 |
| MF 8               | 0,75                                                | 80             | 22             | 6              | 4,9   | 3 | 7,25                                                                                | 7465402                        | TC-BMF 8X0,75-6HX-ET0-11   |
| MF 8               | 1                                                   | 90             | 22             | 6              | 4,9   | 3 | 7                                                                                   | 7465403                        | TC-BMF 8X1-6HX-ET0-11      |
| MF 10              | 1                                                   | 90             | 20             | 7              | 5,5   | 3 | 9                                                                                   | 7465406                        | TC-BMF 10X1-6HX-ET0-11     |
| MF 10              | 1,25                                                | 100            | 24             | 7              | 5,5   | 3 | 8,75                                                                                | 7465407                        | TC-BMF 10X1,25-6HX-ET0-11  |
| MF 12              | 1                                                   | 100            | 22             | 9              | 7     | 3 | 11                                                                                  | 7465411                        | TC-BMF 12X1-6HX-ET0-11     |
| MF 12              | 1,25                                                | 100            | 22             | 9              | 7     | 3 | 10,75                                                                               | 7465412                        | TC-BMF 12X1,25-6HX-ET0-11  |
| MF 12              | 1,5                                                 | 100            | 22             | 9              | 7     | 3 | 10,5                                                                                | 7465413                        | TC-BMF 12X1,5-6HX-ET0-11   |
| MF 14              | 1,5                                                 | 100            | 22             | 11             | 9     | 3 | 12,5                                                                                | 7465415                        | TC-BMF 14X1,5-6HX-ET0-11   |
| MF 16              | 1,5                                                 | 100            | 22             | 12             | 9     | 3 | 14,5                                                                                | 7465416                        | TC-BMF 16X1,5-6HX-ET0-11   |
| MF 18              | 1,5                                                 | 110            | 25             | 14             | 11    | 3 | 16,5                                                                                | 7465418                        | TC-BMF 18X1,5-6HX-ET0-11   |
| MF 20              | 1,5                                                 | 125            | 25             | 16             | 12    | 3 | 18,5                                                                                | 7465419                        | TC-BMF 20X1,5-6HX-ET0-11   |
| MF 22              | 1,5                                                 | 125            | 25             | 18             | 14,5  | 3 | 20,5                                                                                | 7465420                        | TC-BMF 22X1,5-6HX-ET0-11   |
| MF 24              | 1,5                                                 | 140            | 28             | 18             | 14,5  | 3 | 22,5                                                                                | 7465421                        | TC-BMF 24X1,5-6HX-ET0-11   |
| MF 26              | 1,5                                                 | 140            | 28             | 18             | 14,5  | 4 | 24,5                                                                                | 7465422                        | TC-BMF 26X1,5-6HX-ET0-11   |
| MF 30              | 1,5                                                 | 150            | 28             | 22             | 18    | 4 | 28,5                                                                                | 7465423                        | TC-BMF 30X1,5-6HX-ET0-11   |
|                    |                                                     |                |                |                |       |   |                                                                                     |                                |                            |

■ = Hauptanwendung      □ = Nebenanwendung

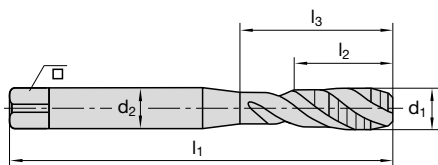


■ = Hauptanwendung      □ = Nebenanwendung



■ = Hauptanwendung      □ = Nebenanwendung





**Katalog-Nr.**

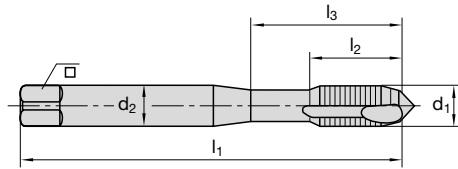
**ET01**

|           |                                                     |                                |
|-----------|-----------------------------------------------------|--------------------------------|
| <b>P1</b> | Stahl < 500 N/mm <sup>2</sup>                       | ■ v <sub>c</sub> = 15–25 m/min |
| <b>P2</b> | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         | ■ v <sub>c</sub> = 10–20 m/min |
| <b>P3</b> | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           | ■ v <sub>c</sub> = 8–15 m/min  |
| <b>M1</b> | Rostfreie austenitische Stähle                      | ■ v <sub>c</sub> = 6–12 m/min  |
| <b>M2</b> | Rostfreie martensitische Stähle < 29 HRC            |                                |
| <b>K1</b> | Grauguss                                            |                                |
| <b>K2</b> | Sphäroguss                                          | ■ v <sub>c</sub> = 8–20 m/min  |
| <b>N1</b> | Alu- & Cu-Legierungen langspanend < 5 % Si          | ■ v <sub>c</sub> = 15–40 m/min |
| <b>N2</b> | Alu- & Cu-Legierungen langspanend 5–10 % Si         | ■ v <sub>c</sub> = 15–40 m/min |
| <b>N3</b> | Alu- & Cu-Legierungen kurzspanend > 10 % Si         | ■ v <sub>c</sub> = 10–30 m/min |
| <b>N4</b> | Graphit                                             |                                |
| <b>S1</b> | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                                |
| <b>S2</b> | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                                |
| <b>H1</b> | Hartguss und Harte Stähle 45–55 HRC                 |                                |

| d <sub>1</sub>                        | P  | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z | Ident No. | LMT-Code                     |
|---------------------------------------|----|----------------|----------------|----------------|----------------|-------|---|-----------|------------------------------|
| <b>mit verstärktem Zylinderschaft</b> |    |                |                |                |                |       |   |           |                              |
| UNC No. 2                             | 56 | 45             | 3,6            | 11             | 2,8            | 2,1   | 2 | 7465559   | TC-CUNC #2-56X3,6-ET45-11    |
| UNC No. 3                             | 48 | 50             | 3,6            | 13             | 2,8            | 2,1   | 2 | 7465560   | TC-CUNC #3-48X3,6-ET45-11    |
| UNC No. 4                             | 40 | 56             | 5,1            | 18             | 3,5            | 2,7   | 2 | 7465561   | TC-CUNC #4-40X5,1-ET45-11    |
| UNC No. 5                             | 40 | 56             | 5,1            | 18             | 3,5            | 2,7   | 2 | 7465562   | TC-CUNC #5-40X5,1-ET45-11    |
| UNC No. 6                             | 32 | 56             | 6,4            | 20             | 4              | 3     | 2 | 7465563   | TC-CUNC #6-32X6,4-ET45-11    |
| UNC No. 8                             | 32 | 63             | 6,4            | 21             | 4,5            | 3,4   | 2 | 7465564   | TC-CUNC #8-32X6,4-ET45-11    |
| UNC No. 10                            | 24 | 70             | 8,5            | 25             | 6              | 4,9   | 2 | 7465565   | TC-CUNC #10-24X8,5-ET45-11   |
| UNC No. 12                            | 24 | 80             | 8,5            | 30             | 6              | 4,9   | 2 | 7465566   | TC-CUNC #12-24X8,5-ET45-11   |
| UNC 1/4                               | 20 | 80             | 10,2           | 30             | 7              | 5,5   | 2 | 7465567   | TC-CUNC 1/4-20X10,2-ET45-11  |
| UNC 5/16                              | 18 | 90             | 11,3           | 35             | 8              | 6,2   | 3 | 7465568   | TC-CUNC 5/16-18X11,3-ET45-11 |
| UNC 3/8                               | 16 | 100            | 12,7           | 39             | 10             | 8     | 3 | 7465569   | TC-CUNC 3/8-16X12,7-ET45-11  |
| <b>mit Überlaufschaft</b>             |    |                |                |                |                |       |   |           |                              |
| UNC 1/2                               | 13 | 110            | 15,6           | –              | 9              | 7     | 3 | 7465570   | TC-CUNC 1/2-13X15,6-ET45-11  |
| UNC 5/8                               | 11 | 110            | 18,5           | –              | 12             | 9     | 3 | 7465571   | TC-CUNC 5/8-11X18,5-ET45-11  |
| UNC 3/4                               | 10 | 125            | 25,4           | –              | 14             | 11    | 4 | 7465572   | TC-CUNC 3/4-10X25,4-ET45-11  |
| UNC 7/8                               | 9  | 140            | 28,2           | –              | 18             | 14,5  | 4 | 7465573   | TC-CUNC 7/8-9X28,2-ET45-11   |
| UNC 1                                 | 8  | 160            | 31,8           | –              | 18             | 14,5  | 4 | 7465574   | TC-CUNC 1-8X31,8-ET45-11     |

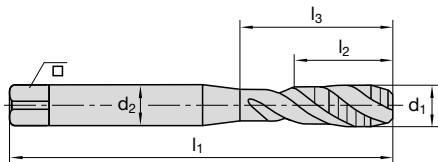
■ = Hauptanwendung

□ = Nebenanwendung



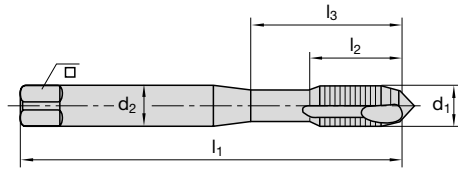
| Katalog-Nr.                    |                                                     |                |                |                |                |       |   |                                                                                     | ET01      |                              |  |
|--------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|------------------------------|--|
| P1                             | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min |  |
| P2                             | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min |  |
| P3                             | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  |  |
| M1                             | Rostfreie austenitische Stähle                      |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  |  |
| M2                             | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |   |                                                                                     |           |                              |  |
| K1                             | Grauguss                                            |                |                |                |                |       |   |                                                                                     |           |                              |  |
| K2                             | Sphäroguss                                          |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  |  |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |  |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |  |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min |  |
| N4                             | Graphit                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |
| S1                             | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |   |                                                                                     |           |                              |  |
| S2                             | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |   |                                                                                     |           |                              |  |
| H1                             | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |   |                                                                                     |           |                              |  |
| d <sub>1</sub>                 | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                     |  |
| mit verstärktem Zylinderschaft |                                                     |                |                |                |                |       |   |                                                                                     |           |                              |  |
| UNC No. 2                      | 56                                                  | 45             | 9              | –              | 2,8            | 2,1   | 2 | 1,85                                                                                | 7465544   | TC-BUNC #2-56X9-ET0-11       |  |
| UNC No. 4                      | 40                                                  | 56             | 11             | 18             | 3,5            | 2,7   | 2 | 2,35                                                                                | 7465545   | TC-BUNC #4-40X11-ET0-11      |  |
| UNC No. 5                      | 40                                                  | 56             | 11             | 18             | 3,5            | 2,7   | 3 | 2,65                                                                                | 7465546   | TC-BUNC #5-40X11-ET0-11      |  |
| UNC No. 6                      | 32                                                  | 56             | 12             | 20             | 4              | 3     | 3 | 2,85                                                                                | 7465547   | TC-BUNC #6-32X12-ET0-11      |  |
| UNC No. 8                      | 32                                                  | 63             | 13             | 21             | 4,5            | 3,4   | 3 | 3,5                                                                                 | 7465548   | TC-BUNC #8-32X13-ET0-11      |  |
| UNC No. 10                     | 24                                                  | 70             | 16             | 25             | 6              | 4,9   | 3 | 3,9                                                                                 | 7465549   | TC-BUNC #10-24X16-ET0-11     |  |
| UNC No. 12                     | 24                                                  | 80             | 17             | 30             | 6              | 4,9   | 3 | 4,5                                                                                 | 7465550   | TC-BUNC #12-24X17-ET0-11     |  |
| UNC 1/4                        | 20                                                  | 80             | 19             | 30             | 7              | 5,5   | 3 | 5,2                                                                                 | 7465551   | TC-BUNC 1/4-20X19-ET0-11     |  |
| UNC 5/16                       | 18                                                  | 90             | 22             | 35             | 8              | 6,2   | 3 | 6,6                                                                                 | 7465552   | TC-BUNC 5/16-18X22-ET0-11    |  |
| UNC 3/8                        | 16                                                  | 100            | 24             | 39             | 10             | 8     | 3 | 8                                                                                   | 7465553   | TC-BUNC 3/8-16X24-ET0-11     |  |
| mit Überlaufschaft             |                                                     |                |                |                |                |       |   |                                                                                     |           |                              |  |
| UNC 1/2                        | 13                                                  | 110            | 28             | –              | 9              | 7     | 3 | 10,8                                                                                | 7465554   | TC-BUNC 1/2-13X28-ET0-11     |  |
| UNC 5/8                        | 11                                                  | 110            | 32             | –              | 12             | 9     | 3 | 13,5                                                                                | 7465555   | TC-BUNC 5/8-11X32-ET0-11     |  |
| UNC 3/4                        | 10                                                  | 125            | 34             | –              | 14             | 11    | 3 | 16,5                                                                                | 7465556   | TC-BUNC 3/4-10X34-ET0-11     |  |
| UNC 7/8                        | 9                                                   | 140            | 34             | –              | 18             | 14,5  | 3 | 19,5                                                                                | 7465557   | TC-BUNC 7/8-9X34-ET0-11      |  |
| UNC 1                          | 8                                                   | 160            | 38             | –              | 18             | 14,5  | 3 | 22,25                                                                               | 7465558   | TC-BUNC 1-8X38-ET0-11        |  |
|                                |                                                     |                |                |                |                |       |   |                                                                                     |           |                              |  |

■ = Hauptanwendung      □ = Nebenanwendung



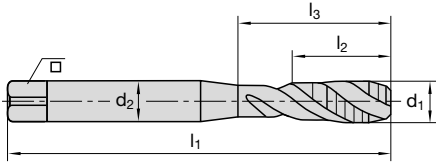
| Katalog-Nr.                    |                                             |                |                |                |                |       |   |                                                                                     | ET01      |                              |  |
|--------------------------------|---------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|------------------------------|--|
| P1                             | Stahl < 500 N/mm²                           |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min |  |
| P2                             | Stahl 500–1000 N/mm², < 31 HRC              |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min |  |
| P3                             | Stahl > 1000 N/mm², < 40 HRC                |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  |  |
| M1                             | Rostfreie austenitische Stähle              |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  |  |
| M2                             | Rostfreie martensitische Stähle < 29 HRC    |                |                |                |                |       |   |                                                                                     |           |                              |  |
| K1                             | Grauguss                                    |                |                |                |                |       |   |                                                                                     |           |                              |  |
| K2                             | Sphäroguss                                  |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  |  |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si  |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |  |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |  |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min |  |
| N4                             | Graphit                                     |                |                |                |                |       |   |                                                                                     |           |                              |  |
| S1                             | Titanlegierungen mittelfest < 900 N/mm²     |                |                |                |                |       |   |                                                                                     |           |                              |  |
| S2                             | Titanlegierungen hochfest < 1300 N/mm²      |                |                |                |                |       |   |                                                                                     |           |                              |  |
| H1                             | Hartguss und Harte Stähle 45–55 HRC         |                |                |                |                |       |   |                                                                                     |           |                              |  |
| d <sub>1</sub>                 | P                                           | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                     |  |
| mit verstärktem Zylinderschaft |                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |
| UNF No. 2                      | 64                                          | 45             | 3,6            | 11             | 2,8            | 2,1   | 2 | 1,85                                                                                | 7465592   | TC-CUNF #2-64X3,6-ET45-11    |  |
| UNF No. 3                      | 56                                          | 50             | 3,6            | 13             | 2,8            | 2,1   | 2 | 2,15                                                                                | 7465593   | TC-CUNF #3-56X3,6-ET45-11    |  |
| UNF No. 4                      | 48                                          | 56             | 5,1            | 18             | 3,5            | 2,7   | 2 | 2,4                                                                                 | 7465594   | TC-CUNF #4-48X5,1-ET45-11    |  |
| UNF No. 5                      | 44                                          | 56             | 5,1            | 18             | 3,5            | 2,7   | 2 | 2,7                                                                                 | 7465595   | TC-CUNF #5-44X5,1-ET45-11    |  |
| UNF No. 6                      | 40                                          | 56             | 6,4            | 20             | 4              | 3     | 2 | 2,95                                                                                | 7465596   | TC-CUNF #6-40X6,4-ET45-11    |  |
| UNF No. 8                      | 36                                          | 63             | 6,4            | 21             | 4,5            | 3,4   | 2 | 3,5                                                                                 | 7465597   | TC-CUNF #8-36X6,4-ET45-11    |  |
| UNF No. 10                     | 32                                          | 70             | 8,5            | 25             | 6              | 4,9   | 2 | 4,1                                                                                 | 7465598   | TC-CUNF #10-32X8,5-ET45-11   |  |
| UNF No. 12                     | 28                                          | 80             | 8,5            | 30             | 6              | 4,9   | 2 | 4,6                                                                                 | 7465599   | TC-CUNF #12-28X8,5-ET45-11   |  |
| UNF 1/4                        | 28                                          | 80             | 10,2           | 30             | 7              | 5,5   | 2 | 5,5                                                                                 | 7465600   | TC-CUNF 1/4-28X10,2-ET45-11  |  |
| UNF 5/16                       | 24                                          | 90             | 11,3           | 35             | 8              | 6,2   | 3 | 6,9                                                                                 | 7465601   | TC-CUNF 5/16-24X11,3-ET45-11 |  |
| UNF 3/8                        | 24                                          | 90             | 12,7           | 35             | 10             | 8     | 3 | 8,5                                                                                 | 7465602   | TC-CUNF 3/8-24X12,7-ET45-11  |  |
| UNF 7/16                       | 20                                          | 100            | 14,5           | –              | 8              | 6,2   | 3 | 9,9                                                                                 | 7465603   | TC-CUNF 7/16-20X14,5-ET45-11 |  |
| mit Überlaufschaft             |                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |
| UNF 1/2                        | 20                                          | 100            | 15,6           | –              | 9              | 7     | 3 | 11,5                                                                                | 7465604   | TC-CUNF 1/2-20X15,6-ET45-11  |  |
| UNF 9/16                       | 18                                          | 100            | 16,9           | –              | 11             | 9     | 3 | 12,9                                                                                | 7465605   | TC-CUNF 9/16-18X16,9-ET45-11 |  |
| UNF 5/8                        | 18                                          | 100            | 18,5           | –              | 12             | 9     | 3 | 14,5                                                                                | 7465606   | TC-CUNF 5/8-18X18,5-ET45-11  |  |
| UNF 3/4                        | 16                                          | 110            | 25,4           | –              | 14             | 11    | 4 | 17,5                                                                                | 7465607   | TC-CUNF 3/4-16X25,4-ET45-11  |  |
| UNF 7/8                        | 14                                          | 125            | 28,2           | –              | 18             | 14,5  | 4 | 20,4                                                                                | 7465608   | TC-CUNF 7/8-14X28,2-ET45-11  |  |
| UNF 1                          | 12                                          | 140            | 31,8           | –              | 18             | 14,5  | 4 | 23,25                                                                               | 7465609   | TC-CUNF 1-12X31,8-ET45-11    |  |
|                                |                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |

■ = Hauptanwendung □ = Nebenanwendung

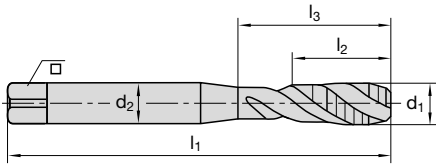


| Katalog-Nr.                    |                                                     |                |                |                |                |       |   |                                                                                     | ET01      |                              |
|--------------------------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|------------------------------|
| P1                             | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min |
| P2                             | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min |
| P3                             | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  |
| M1                             | Rostfreie austenitische Stähle                      |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  |
| M2                             | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |                |       |   |                                                                                     |           |                              |
| K1                             | Grauguss                                            |                |                |                |                |       |   |                                                                                     |           |                              |
| K2                             | Sphäroguss                                          |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min |
| N4                             | Graphit                                             |                |                |                |                |       |   |                                                                                     |           |                              |
| S1                             | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |                |       |   |                                                                                     |           |                              |
| S2                             | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |                |       |   |                                                                                     |           |                              |
| H1                             | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |                |       |   |                                                                                     |           |                              |
| d <sub>1</sub>                 | P                                                   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                     |
| mit verstärktem Zylinderschaft |                                                     |                |                |                |                |       |   |                                                                                     |           |                              |
| UNF No. 2                      | 64                                                  | 45             | 9              | –              | 2,8            | 2,1   | 2 | 1,85                                                                                | 7465575   | TC-BUNF #2-64X9-ET0-11       |
| UNF No. 3                      | 56                                                  | 50             | 9              | –              | 2,8            | 2,1   | 2 | 2,15                                                                                | 7465576   | TC-BUNF #3-56X9-ET0-11       |
| UNF No. 4                      | 48                                                  | 56             | 11             | 18             | 3,5            | 2,7   | 2 | 2,4                                                                                 | 7465577   | TC-BUNF #4-48X11-ET0-11      |
| UNF No. 5                      | 44                                                  | 56             | 11             | 18             | 3,5            | 2,7   | 3 | 2,7                                                                                 | 7465578   | TC-BUNF #5-44X11-ET0-11      |
| UNF No. 6                      | 40                                                  | 56             | 12             | 20             | 4              | 3     | 3 | 2,95                                                                                | 7465579   | TC-BUNF #6-40X12-ET0-11      |
| UNF No. 8                      | 36                                                  | 63             | 13             | 21             | 4,5            | 3,4   | 3 | 3,5                                                                                 | 7465580   | TC-BUNF #8-36X13-ET0-11      |
| UNF No. 10                     | 32                                                  | 70             | 16             | 25             | 6              | 4,9   | 3 | 4,1                                                                                 | 7465581   | TC-BUNF #10-32X16-ET0-11     |
| UNF 1/4                        | 28                                                  | 80             | 19             | 30             | 7              | 5,5   | 3 | 5,5                                                                                 | 7465582   | TC-BUNF 1/4-28X19-ET0-11     |
| UNF 5/16                       | 24                                                  | 90             | 22             | 35             | 8              | 6,2   | 3 | 6,9                                                                                 | 7465583   | TC-BUNF 5/16-24X22-ET0-11    |
| UNF 3/8                        | 24                                                  | 90             | 20             | 35             | 10             | 8     | 3 | 8,5                                                                                 | 7465584   | TC-BUNF 3/8-24X20-ET0-11     |
| UNF 7/16                       | 20                                                  | 100            | 24             | –              | 8              | 6,2   | 3 | 9,9                                                                                 | 7465585   | TC-BUNF 7/16-20X24-ET0-11    |
| mit Überlaufschaft             |                                                     |                |                |                |                |       |   |                                                                                     |           |                              |
| UNF 1/2                        | 20                                                  | 100            | 22             | –              | 9              | 7     | 3 | 11,5                                                                                | 7465586   | TC-BUNF 1/2-20X22-ET0-11     |
| UNF 9/16                       | 18                                                  | 100            | 22             | –              | 11             | 9     | 3 | 12,9                                                                                | 7465587   | TC-BUNF 9/16-18X22-ET0-11    |
| UNF 5/8                        | 18                                                  | 100            | 22             | –              | 12             | 9     | 3 | 14,5                                                                                | 7465588   | TC-BUNF 5/8-18X22-ET0-11     |
| UNF 3/4                        | 16                                                  | 110            | 25             | –              | 14             | 11    | 3 | 17,5                                                                                | 7465589   | TC-BUNF 3/4-16X25-ET0-11     |
| UNF 7/8                        | 14                                                  | 125            | 25             | –              | 18             | 14,5  | 3 | 20,4                                                                                | 7465590   | TC-BUNF 7/8-14X25-ET0-11     |
| UNF 1                          | 12                                                  | 140            | 28             | –              | 18             | 14,5  | 3 | 23,25                                                                               | 7465591   | TC-BUNF 1-12X28-ET0-11       |
|                                |                                                     |                |                |                |                |       |   |                                                                                     |           |                              |

■ = Hauptanwendung □ = Nebenanwendung

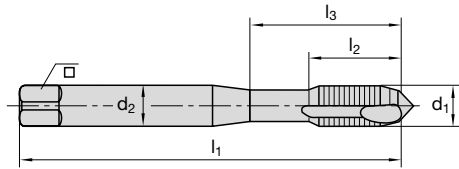


■ = Hauptanwendung      □ = Nebenanwendung



| Katalog-Nr.        |                                                     |                |                |                |       |   |                                                                                     | ET01                           |                          |
|--------------------|-----------------------------------------------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|--------------------------|
| P1                 | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–25 m/min |                          |
| P2                 | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–20 m/min |                          |
| P3                 | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–15 m/min  |                          |
| M1                 | Rostfreie austenitische Stähle                      |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 6–12 m/min  |                          |
| M2                 | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |       |   |                                                                                     |                                |                          |
| K1                 | Grauguss                                            |                |                |                |       |   |                                                                                     |                                |                          |
| K2                 | Sphäroguss                                          |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–20 m/min  |                          |
| N1                 | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min |                          |
| N2                 | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min |                          |
| N3                 | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–30 m/min |                          |
| N4                 | Graphit                                             |                |                |                |       |   |                                                                                     |                                |                          |
| S1                 | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |       |   |                                                                                     |                                |                          |
| S2                 | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |       |   |                                                                                     |                                |                          |
| H1                 | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |       |   |                                                                                     |                                |                          |
| d <sub>1</sub>     | P                                                   | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code                 |
| mit Überlaufschaft |                                                     |                |                |                |       |   |                                                                                     |                                |                          |
| G 1/8              | 28                                                  | 180            | 9,1            | 7              | 5,5   | 3 | 8,8                                                                                 | <a href="#">7465532</a>        | TC-CG 1/8X9,1-ET45-11-2  |
| G 1/4              | 19                                                  | 200            | 13,4           | 11             | 9     | 3 | 11,8                                                                                | <a href="#">7465533</a>        | TC-CG 1/4X13,4-ET45-11-2 |
| G 3/8              | 19                                                  | 200            | 13,4           | 12             | 9     | 4 | 15,25                                                                               | <a href="#">7465534</a>        | TC-CG 3/8X13,4-ET45-11-2 |
| G 1/2              | 14                                                  | 250            | 18,2           | 16             | 12    | 4 | 19                                                                                  | <a href="#">7465535</a>        | TC-CG 1/2X18,2-ET45-11-2 |
| G 3/4              | 14                                                  | 280            | 28             | 20             | 16    | 4 | 24,5                                                                                | <a href="#">7465536</a>        | TC-CG 3/4X28-ET45-11-2   |
| G 1                | 11                                                  | 280            | 30             | 25             | 20    | 4 | 30,75                                                                               | <a href="#">7465537</a>        | TC-CG 1X30-ET45-11-2     |

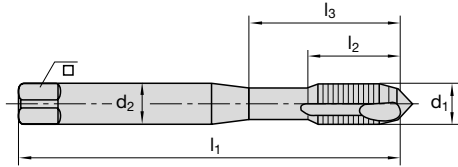
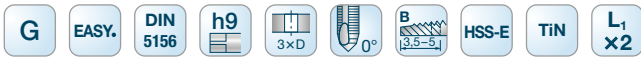
■ = Hauptanwendung    □ = Nebenanwendung



| Katalog-Nr.        |                                                     |                |                |                |       |   |                                                                                     | ET01                           |                      |
|--------------------|-----------------------------------------------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|--------------------------------|----------------------|
| <b>P1</b>          | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–25 m/min |                      |
| <b>P2</b>          | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–20 m/min |                      |
| <b>P3</b>          | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–15 m/min  |                      |
| <b>M1</b>          | Rostfreie austenitische Stähle                      |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 6–12 m/min  |                      |
| <b>M2</b>          | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |       |   |                                                                                     |                                |                      |
| <b>K1</b>          | Grauguss                                            |                |                |                |       |   |                                                                                     |                                |                      |
| <b>K2</b>          | Sphäroguss                                          |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 8–20 m/min  |                      |
| <b>N1</b>          | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min |                      |
| <b>N2</b>          | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 15–40 m/min |                      |
| <b>N3</b>          | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |       |   |                                                                                     | ■ v <sub>c</sub> = 10–30 m/min |                      |
| <b>N4</b>          | Graphit                                             |                |                |                |       |   |                                                                                     |                                |                      |
| <b>S1</b>          | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |       |   |                                                                                     |                                |                      |
| <b>S2</b>          | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |       |   |                                                                                     |                                |                      |
| <b>H1</b>          | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |       |   |                                                                                     |                                |                      |
| d <sub>1</sub>     | P                                                   | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No.                      | LMT-Code             |
| mit Überlaufschaft |                                                     |                |                |                |       |   |                                                                                     |                                |                      |
| G 1/16             | 28                                                  | 90             | 20             | 6              | 4,9   | 3 | 6,8                                                                                 | 7465510                        | TC-BG 1/16X20-ET0-11 |
| G 1/8              | 28                                                  | 90             | 20             | 7              | 5,5   | 3 | 8,8                                                                                 | 7465511                        | TC-BG 1/8X20-ET0-11  |
| G 1/4              | 19                                                  | 100            | 22             | 11             | 9     | 3 | 11,8                                                                                | 7465512                        | TC-BG 1/4X22-ET0-11  |
| G 3/8              | 19                                                  | 100            | 22             | 12             | 9     | 3 | 15,25                                                                               | 7465513                        | TC-BG 3/8X22-ET0-11  |
| G 1/2              | 14                                                  | 125            | 25             | 16             | 12    | 3 | 19                                                                                  | 7465514                        | TC-BG 1/2X25-ET0-11  |
| G 5/8              | 14                                                  | 125            | 25             | 18             | 14,5  | 3 | 21                                                                                  | 7465515                        | TC-BG 5/8X25-ET0-11  |
| G 3/4              | 14                                                  | 140            | 28             | 20             | 16    | 4 | 24,5                                                                                | 7465516                        | TC-BG 3/4X28-ET0-11  |
| G 1                | 11                                                  | 160            | 30             | 25             | 20    | 4 | 30,75                                                                               | 7465517                        | TC-BG 1X30-ET0-11    |

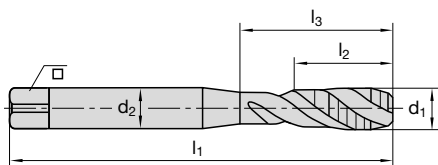
■ = Hauptanwendung    □ = Nebenanwendung





| Katalog-Nr.        |                                                     |                |                |                |       |   |       | ET01                           |                       |
|--------------------|-----------------------------------------------------|----------------|----------------|----------------|-------|---|-------|--------------------------------|-----------------------|
| P1                 | Stahl < 500 N/mm <sup>2</sup>                       |                |                |                |       |   |       | ■ v <sub>c</sub> = 15–25 m/min |                       |
| P2                 | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         |                |                |                |       |   |       | ■ v <sub>c</sub> = 10–20 m/min |                       |
| P3                 | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           |                |                |                |       |   |       | ■ v <sub>c</sub> = 8–15 m/min  |                       |
| M1                 | Rostfreie austenitische Stähle                      |                |                |                |       |   |       | ■ v <sub>c</sub> = 6–12 m/min  |                       |
| M2                 | Rostfreie martensitische Stähle < 29 HRC            |                |                |                |       |   |       |                                |                       |
| K1                 | Grauguss                                            |                |                |                |       |   |       |                                |                       |
| K2                 | Sphäroguss                                          |                |                |                |       |   |       | ■ v <sub>c</sub> = 8–20 m/min  |                       |
| N1                 | Alu- & Cu-Legierungen langspanend < 5 % Si          |                |                |                |       |   |       | ■ v <sub>c</sub> = 15–40 m/min |                       |
| N2                 | Alu- & Cu-Legierungen langspanend 5–10 % Si         |                |                |                |       |   |       | ■ v <sub>c</sub> = 15–40 m/min |                       |
| N3                 | Alu- & Cu-Legierungen kurzspanend > 10 % Si         |                |                |                |       |   |       | ■ v <sub>c</sub> = 10–30 m/min |                       |
| N4                 | Graphit                                             |                |                |                |       |   |       |                                |                       |
| S1                 | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                |                |                |       |   |       |                                |                       |
| S2                 | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                |                |                |       |   |       |                                |                       |
| H1                 | Hartguss und Harte Stähle 45–55 HRC                 |                |                |                |       |   |       |                                |                       |
| d <sub>1</sub>     | P                                                   | l <sub>1</sub> | l <sub>2</sub> | d <sub>2</sub> | □ h12 | z |       | Ident No.                      | LMT-Code              |
| mit Überlaufschaft |                                                     |                |                |                |       |   |       |                                |                       |
| G 1/8              | 28                                                  | 180            | 20             | 7              | 5,5   | 3 | 8,8   | 7465518                        | TC-BG 1/8X20-ET0-11-2 |
| G 1/4              | 19                                                  | 200            | 22             | 11             | 9     | 3 | 11,8  | 7465519                        | TC-BG 1/4X22-ET0-11-2 |
| G 3/8              | 19                                                  | 200            | 22             | 12             | 9     | 3 | 15,25 | 7465520                        | TC-BG 3/8X22-ET0-11-2 |
| G 1/2              | 14                                                  | 250            | 25             | 16             | 12    | 3 | 19    | 7465521                        | TC-BG 1/2X25-ET0-11-2 |
| G 3/4              | 14                                                  | 280            | 28             | 20             | 16    | 4 | 24,5  | 7465522                        | TC-BG 3/4X28-ET0-11-2 |
| G 1                | 11                                                  | 280            | 30             | 25             | 20    | 4 | 30,75 | 7465523                        | TC-BG 1X30-ET0-11-2   |

■ = Hauptanwendung □ = Nebenanwendung



**Katalog-Nr.**

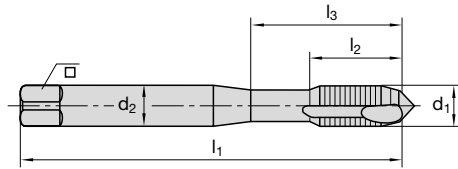
**ET01**

|           |                                                     |                                |
|-----------|-----------------------------------------------------|--------------------------------|
| <b>P1</b> | Stahl < 500 N/mm <sup>2</sup>                       | ■ v <sub>c</sub> = 15–25 m/min |
| <b>P2</b> | Stahl 500–1000 N/mm <sup>2</sup> , < 31 HRC         | ■ v <sub>c</sub> = 10–20 m/min |
| <b>P3</b> | Stahl > 1000 N/mm <sup>2</sup> , < 40 HRC           | ■ v <sub>c</sub> = 8–15 m/min  |
| <b>M1</b> | Rostfreie austenitische Stähle                      | ■ v <sub>c</sub> = 6–12 m/min  |
| <b>M2</b> | Rostfreie martensitische Stähle < 29 HRC            |                                |
| <b>K1</b> | Grauguss                                            |                                |
| <b>K2</b> | Sphäroguss                                          | ■ v <sub>c</sub> = 8–20 m/min  |
| <b>N1</b> | Alu- & Cu-Legierungen langspanend < 5 % Si          | ■ v <sub>c</sub> = 15–40 m/min |
| <b>N2</b> | Alu- & Cu-Legierungen langspanend 5–10 % Si         | ■ v <sub>c</sub> = 15–40 m/min |
| <b>N3</b> | Alu- & Cu-Legierungen kurzspanend > 10 % Si         | ■ v <sub>c</sub> = 10–30 m/min |
| <b>N4</b> | Graphit                                             |                                |
| <b>S1</b> | Titanlegierungen mittelfest < 900 N/mm <sup>2</sup> |                                |
| <b>S2</b> | Titanlegierungen hochfest < 1300 N/mm <sup>2</sup>  |                                |
| <b>H1</b> | Hartguss und Harte Stähle 45–55 HRC                 |                                |

| d <sub>1</sub>                        | P    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z | Ident No. | LMT-Code             |
|---------------------------------------|------|----------------|----------------|----------------|----------------|-------|---|-----------|----------------------|
| <b>mit verstärktem Zylinderschaft</b> |      |                |                |                |                |       |   |           |                      |
| EG M 2                                | 0,4  | 50             | 4,5            | 13             | 2,8            | 2,1   | 2 | 7465499   | TC-EEGM 2X0,4-6HX    |
| EG M 2,5                              | 0,45 | 56             | 5              | 18             | 3,5            | 2,7   | 3 | 7465500   | TC-EEGM 2,5X0,45-6HX |
| EG M 3                                | 0,5  | 63             | 5              | 21             | 4,5            | 3,4   | 3 | 7465501   | TC-EEGM 3X0,5-6HX    |
| EG M 4                                | 0,7  | 70             | 7              | 25             | 6              | 4,9   | 3 | 7465502   | TC-EEGM 4X0,7-6HX    |
| EG M 5                                | 0,8  | 80             | 8              | 30             | 6              | 4,9   | 3 | 7465503   | TC-EEGM 5X0,8-6HX    |
| EG M 6                                | 1    | 90             | 10             | 35             | 8              | 6,2   | 3 | 7465504   | TC-EEGM 6X1-6HX      |
| EG M 8                                | 1,25 | 100            | 13             | 39             | 10             | 8     | 3 | 7465505   | TC-EEGM 8X1,25-6HX   |
| <b>mit Überlaufschaft</b>             |      |                |                |                |                |       |   |           |                      |
| EG M10                                | 1,5  | 100            | 15             | –              | 9              | 7     | 3 | 7465506   | TC-EEGM 10X1,5-6HX   |
| EG M12                                | 1,75 | 110            | 18             | –              | 11             | 9     | 3 | 7465507   | TC-EEGM 12X1,75-6HX  |
| EG M16                                | 2    | 125            | 20             | –              | 14             | 11    | 4 | 7465508   | TC-EEGM 16X2-6HX     |
| EG M20                                | 2,5  | 160            | 25             | –              | 18             | 14,5  | 4 | 7465509   | TC-EEGM 20X2,5-6HX   |

<sup>1)</sup> Metrisches Einsatz-Gewinde für Gewindeeinsätze aus Draht

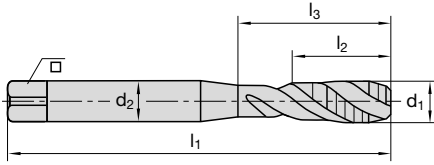
■ = Hauptanwendung □ = Nebenanwendung



| Katalog-Nr.                    |                                             |                |                |                |                |       |   |                                                                                     | ET01      |                              |  |
|--------------------------------|---------------------------------------------|----------------|----------------|----------------|----------------|-------|---|-------------------------------------------------------------------------------------|-----------|------------------------------|--|
| P1                             | Stahl < 500 N/mm²                           |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–25 m/min |  |
| P2                             | Stahl 500–1000 N/mm², < 31 HRC              |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–20 m/min |  |
| P3                             | Stahl > 1000 N/mm², < 40 HRC                |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–15 m/min  |  |
| M1                             | Rostfreie austenitische Stähle              |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 6–12 m/min  |  |
| M2                             | Rostfreie martensitische Stähle < 29 HRC    |                |                |                |                |       |   |                                                                                     |           |                              |  |
| K1                             | Grauguss                                    |                |                |                |                |       |   |                                                                                     |           |                              |  |
| K2                             | Sphäroguss                                  |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 8–20 m/min  |  |
| N1                             | Alu- & Cu-Legierungen langspanend < 5 % Si  |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |  |
| N2                             | Alu- & Cu-Legierungen langspanend 5–10 % Si |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 15–40 m/min |  |
| N3                             | Alu- & Cu-Legierungen kurzspanend > 10 % Si |                |                |                |                |       |   |                                                                                     | ■         | v <sub>c</sub> = 10–30 m/min |  |
| N4                             | Graphit                                     |                |                |                |                |       |   |                                                                                     |           |                              |  |
| S1                             | Titanlegierungen mittelfest < 900 N/mm²     |                |                |                |                |       |   |                                                                                     |           |                              |  |
| S2                             | Titanlegierungen hochfest < 1300 N/mm²      |                |                |                |                |       |   |                                                                                     |           |                              |  |
| H1                             | Hartguss und Harte Stähle 45–55 HRC         |                |                |                |                |       |   |                                                                                     |           |                              |  |
| d <sub>1</sub>                 | P                                           | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | □ h12 | z |  | Ident No. | LMT-Code                     |  |
| mit verstärktem Zylinderschaft |                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |
| EG M 2                         | 0,4                                         | 50             | 9              | –              | 2,8            | 2,1   | 2 | 2,1                                                                                 | 7465488   | TC-BEGM 2X0,4-6HX            |  |
| EG M 2,5                       | 0,45                                        | 56             | 11             | 18             | 3,5            | 2,7   | 3 | 2,65                                                                                | 7465489   | TC-BEGM 2,5X0,45-6HX         |  |
| EG M 3                         | 0,5                                         | 63             | 13             | 21             | 4,5            | 3,4   | 3 | 3,15                                                                                | 7465490   | TC-BEGM 3X0,5-6HX            |  |
| EG M 4                         | 0,7                                         | 70             | 16             | 25             | 6              | 4,9   | 3 | 4,2                                                                                 | 7465491   | TC-BEGM 4X0,7-6HX            |  |
| EG M 5                         | 0,8                                         | 80             | 19             | 30             | 6              | 4,9   | 3 | 5,25                                                                                | 7465492   | TC-BEGM 5X0,8-6HX            |  |
| EG M 6                         | 1                                           | 90             | 22             | 35             | 8              | 6,2   | 3 | 6,3                                                                                 | 7465493   | TC-BEGM 6X1-6HX              |  |
| EG M 8                         | 1,25                                        | 100            | 24             | 39             | 10             | 8     | 3 | 8,4                                                                                 | 7465494   | TC-BEGM 8X1,25-6HX           |  |
| mit Überlaufschaft             |                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |
| EG M10                         | 1,5                                         | 100            | 29             | –              | 9              | 7     | 3 | 10,5                                                                                | 7465495   | TC-BEGM 10X1,5-6HX           |  |
| EG M12                         | 1,75                                        | 110            | 30             | –              | 11             | 9     | 3 | 12,5                                                                                | 7465496   | TC-BEGM 12X1,75-6HX          |  |
| EG M16                         | 2                                           | 125            | 34             | –              | 14             | 11    | 3 | 16,5                                                                                | 7465497   | TC-BEGM 16X2-6HX             |  |
| EG M20                         | 2,5                                         | 160            | 34             | –              | 18             | 14,5  | 3 | 20,5                                                                                | 7465498   | TC-BEGM 20X2,5-6HX           |  |
|                                |                                             |                |                |                |                |       |   |                                                                                     |           |                              |  |

<sup>1)</sup> Metrisches Einsatz-Gewinde für Gewindeeinsätze aus Draht

■ = Hauptanwendung      □ = Nebenanwendung

[illegible]

■ = Hauptanwendung      □ = Nebenanwendung



**Bauteil: Überwurfmutter**

**Werkzeug:**

EASYTap, Grundloch M12

TC-CM 12X1,75-6HX-ET45-11, Ident No. 7465308

**Werkstoff:**

Stahl, martensitisch, 1.4104 / X14CrMoS17,

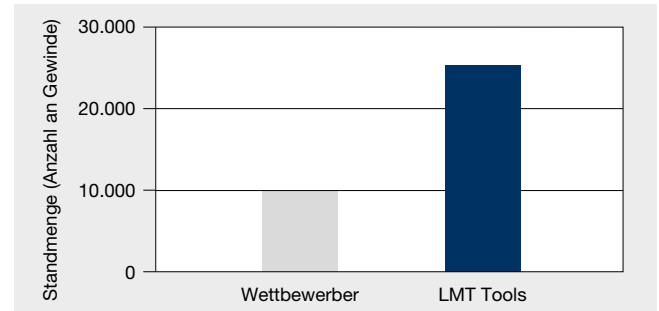
$R_m = 730 \text{ N/mm}^2$

**Schnittwerte:**

$v_c = 12 \text{ m/min}$

**Weitere Angaben:**

Gewindetiefe: 12 mm, Kühlung: Emulsion mit 8 % Ölgehalt



**Bauteil: Profil**

**Werkzeug:**

EASYTap, Durchgangsloch M12

TC-BM 12X1,75-6HX-ET0-11, Ident No. 7465217

**Werkstoff:**

Stahl, nichtrostend-austenitisch, 1.4404 / X2CrNiMo17-12-2,

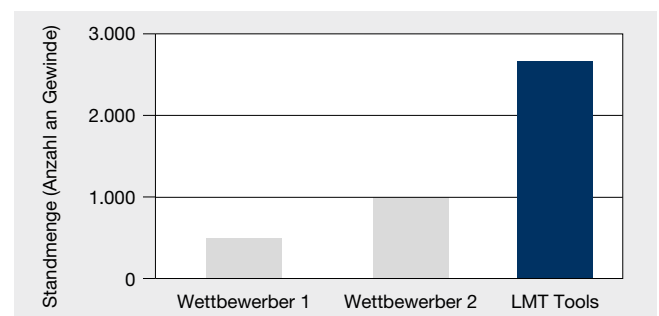
$R_m = 700 \text{ N/mm}^2$

**Schnittwerte:**

$v_c = 15 \text{ m/min}$

**Weitere Angaben:**

Gewindetiefe: 20 mm, Kühlung: Emulsion mit 8 % Ölgehalt



**Impressum**

Herausgeber: LMT Tools Global Operations GmbH & Co. KG,  
Vogesenstrasse 23, 77933 Lahr, Deutschland, Telefon: +49 78 21 943-0  
Gestaltung: deckermedia GbR, Graal-Müritz

© LMT Tools Global Operations GmbH & Co. KG

Nachdruck, auch auszugsweise, ist nur mit unserer Zustimmung gestattet. Alle Rechte vorbehalten. Irrtümer, Satz- oder Druckfehler berechtigen nicht zu irgendwelchen Ansprüchen. Abbildungen, Ausführungen und Maße entsprechen dem neuesten Stand bei Herausgabe dieser Druckschrift. Technische Änderungen müssen vorbehalten sein.

Die bildliche Darstellung der Produkte muss nicht in jedem Falle und in allen Einzelheiten dem tatsächlichen Aussehen entsprechen.

Bildquellen: LMT Tools Global Operations GmbH & Co. KG und LMT Tool Systems GmbH & Co. KG

