



| Katalog-Nr.    |                | Cat.-No.       |                | 3223C          |           | 3233C          |           |                |                                        |                                       |
|----------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|----------------|----------------------------------------|---------------------------------------|
| P              |                |                |                | ■              |           |                |           | ■              |                                        |                                       |
| M              |                |                |                | □              |           |                |           | □              |                                        |                                       |
| K              |                |                |                | ■              |           |                |           | ■              |                                        |                                       |
| N              |                |                |                |                |           |                |           |                |                                        |                                       |
| S              |                |                |                |                |           |                |           |                |                                        |                                       |
| H              |                |                |                |                |           |                |           |                |                                        |                                       |
| d <sub>1</sub> | l <sub>2</sub> | l <sub>1</sub> | l <sub>3</sub> | d <sub>2</sub> | Ident No. | LMT-Code       | Ident No. | LMT-Code       | Für Gewindebohren<br>For taps          | Für Gewindeformen<br>For forming taps |
| 2,5            | 13             | 55             | 9              | 6              | 7115641   | U0322.0250.HAK | 7115802   | U0322.0250.HEK | M 3 x 0,5                              |                                       |
| 2,55           | 13             | 55             | 9              | 6              | 7115642   | U0322.0255.HAK | 7115803   | U0322.0255.HEK |                                        | UNC Nr. 4                             |
| 2,6            | 13             | 55             | 9              | 6              | 7115643   | U0322.0260.HAK | 7115804   | U0322.0260.HEK | UNC Nr. 5                              | UNF Nr. 4                             |
| 2,7            | 16             | 58             | 11             | 6              | 7115644   | U0322.0270.HAK | 7115805   | U0322.0270.HEK | UNF Nr. 5                              |                                       |
| 2,8            | 16             | 58             | 11             | 6              | 7115645   | U0322.0280.HAK | 7115806   | U0322.0280.HEK | UNC Nr. 6                              | M 3 x 0,5                             |
| 2,9            | 16             | 58             | 11             | 6              | 7115646   | U0322.0290.HAK | 7115807   | U0322.0290.HEK | M 3,5 x 0,6;<br>UNF Nr. 6              | UNC Nr. 5;<br>UNF Nr. 5               |
| 3              | 20             | 62             | 14             | 6              | 7115647   | U0322.0300.HAK | 7115808   | U0322.0300.HEK |                                        |                                       |
| 3,1            | 20             | 62             | 14             | 6              | 7115648   | U0322.0310.HAK | 7115809   | U0322.0310.HEK |                                        | M 3,5 x 0,6;<br>UNC Nr. 6             |
| 3,15           | 20             | 62             | 14             | 6              | 7115649   | U0322.0315.HAK | 7115810   | U0322.0315.HEK | MF 3,5 x 0,35                          |                                       |
| 3,2            | 20             | 62             | 14             | 6              | 7115650   | U0322.0320.HAK | 7115811   | U0322.0320.HEK |                                        | UNF Nr. 6                             |
| 3,3            | 20             | 62             | 14             | 6              | 7115651   | U0322.0330.HAK | 7115812   | U0322.0330.HEK | M 4 x 0,7                              |                                       |
| 3,4            | 20             | 62             | 14             | 6              | 7115652   | U0322.0340.HAK | 7115813   | U0322.0340.HEK |                                        |                                       |
| 3,5            | 20             | 62             | 14             | 6              | 7115653   | U0322.0350.HAK | 7115814   | U0322.0350.HEK | MF 4 x 0,5;<br>UNF Nr. 8;<br>UNC Nr. 8 |                                       |
| 3,6            | 20             | 62             | 14             | 6              | 7115654   | U0322.0360.HAK | 7115815   | U0322.0360.HEK |                                        |                                       |
| 3,65           | 20             | 62             | 14             | 6              | 7115655   | U0322.0365.HAK | 7115816   | U0322.0365.HEK | MF 4 x 0,35                            |                                       |
| 3,7            | 20             | 62             | 14             | 6              | 7115656   | U0322.0370.HAK | 7115817   | U0322.0370.HEK | M 4,5 x 0,75                           | M 4 x 0,7                             |
| 3,75           | 20             | 62             | 14             | 6              | 7115657   | U0322.0375.HAK | 7115818   | U0322.0375.HEK |                                        |                                       |
| 3,8            | 24             | 66             | 17             | 6              | 7115658   | U0322.0380.HAK | 7115819   | U0322.0380.HEK |                                        | UNC Nr. 8                             |
| 3,85           | 24             | 66             | 17             | 6              | 7115659   | U0322.0385.HAK | 7115820   | U0322.0385.HEK |                                        | UNF Nr. 8                             |
| 3,9            | 24             | 66             | 17             | 6              | 7115660   | U0322.0390.HAK | 7115821   | U0322.0390.HEK | UNC Nr. 10                             |                                       |
| 4              | 24             | 66             | 17             | 6              | 7115661   | U0322.0400.HAK | 7115822   | U0322.0400.HEK |                                        |                                       |
| 4,1            | 24             | 66             | 17             | 6              | 7115662   | U0322.0410.HAK | 7115823   | U0322.0410.HEK | UNF Nr. 10                             |                                       |
| 4,2            | 24             | 66             | 17             | 6              | 7115663   | U0322.0420.HAK | 7115824   | U0322.0420.HEK | M 5 x 0,8                              |                                       |
| 4,3            | 24             | 66             | 17             | 6              | 7115664   | U0322.0430.HAK | 7115825   | U0322.0430.HEK |                                        | UNC Nr. 10                            |
| 4,4            | 24             | 66             | 17             | 6              | 7115665   | U0322.0440.HAK | 7115826   | U0322.0440.HEK |                                        |                                       |
| 4,45           | 24             | 66             | 17             | 6              | 7115666   | U0322.0445.HAK | 7115827   | U0322.0445.HEK |                                        | UNF Nr. 10                            |

Schnittwertempfehlungen siehe Seite 18  
Cutting data recommendations see page 18

■ = Hauptanwendung First choice  
□ = Nebenanwendung Alternative





| Katalog-Nr. Cat.-No. |                | 3223C          |                |                |           | 3233C          |           |                |                               |                                       |  |
|----------------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|----------------|-------------------------------|---------------------------------------|--|
| P                    |                | ■              |                |                |           | ■              |           |                |                               |                                       |  |
| M                    |                | □              |                |                |           | □              |           |                |                               |                                       |  |
| K                    |                | ■              |                |                |           | ■              |           |                |                               |                                       |  |
| N                    |                |                |                |                |           |                |           |                |                               |                                       |  |
| S                    |                |                |                |                |           |                |           |                |                               |                                       |  |
| H                    |                |                |                |                |           |                |           |                |                               |                                       |  |
| d <sub>1</sub>       | l <sub>2</sub> | l <sub>1</sub> | l <sub>3</sub> | d <sub>2</sub> | Ident No. | LMT-Code       | Ident No. | LMT-Code       | Für Gewindebohren<br>For taps | Für Gewindeformen<br>For forming taps |  |
| 4,5                  | 24             | 66             | 17             | 6              | 7115667   | U0322.0450.HAK | 7115828   | U0322.0450.HEK | MF 5 x 0,5;<br>UNC Nr. 12     |                                       |  |
| 4,6                  | 24             | 66             | 17             | 6              | 7115668   | U0322.0460.HAK | 7115829   | U0322.0460.HEK | UNF Nr. 12                    |                                       |  |
| 4,65                 | 24             | 66             | 17             | 6              | 7115669   | U0322.0465.HAK | 7115830   | U0322.0465.HEK |                               | M 5 x 0,8                             |  |
| 4,7                  | 24             | 66             | 17             | 6              | 7115670   | U0322.0470.HAK | 7115831   | U0322.0470.HEK |                               |                                       |  |
| 4,8                  | 28             | 66             | 20             | 6              | 7115671   | U0322.0480.HAK | 7115832   | U0322.0480.HEK |                               |                                       |  |
| 4,9                  | 28             | 66             | 20             | 6              | 7115672   | U0322.0490.HAK | 7115833   | U0322.0490.HEK |                               |                                       |  |
| 5                    | 28             | 66             | 20             | 6              | 7115673   | U0322.0500.HAK | 7115834   | U0322.0500.HEK | M 6 x 1                       | UNC Nr. 12                            |  |
| 5,05                 | 28             | 66             | 20             | 6              | 7115674   | U0322.0505.HAK | 7115835   | U0322.0505.HEK |                               | UNF Nr. 12                            |  |
| 5,1                  | 28             | 66             | 20             | 6              | 7115675   | U0322.0510.HAK | 7115836   | U0322.0510.HEK | UNC 1/4                       |                                       |  |
| 5,2                  | 28             | 66             | 20             | 6              | 7115676   | U0322.0520.HAK | 7115837   | U0322.0520.HEK | MF 6 x 0,75                   |                                       |  |
| 5,3                  | 28             | 66             | 20             | 6              | 7115677   | U0322.0530.HAK | 7115838   | U0322.0530.HEK |                               |                                       |  |
| 5,4                  | 28             | 66             | 20             | 6              | 7115678   | U0322.0540.HAK | 7115839   | U0322.0540.HEK |                               |                                       |  |
| 5,5                  | 28             | 66             | 20             | 6              | 7115679   | U0322.0550.HAK | 7115840   | U0322.0550.HEK | MF 6 x 0,5;<br>UNF 1/4        |                                       |  |
| 5,55                 | 28             | 66             | 20             | 6              | 7115680   | U0322.0555.HAK | 7115841   | U0322.0555.HEK |                               | M 6 x 1                               |  |
| 5,6                  | 28             | 66             | 20             | 6              | 7115681   | U0322.0560.HAK | 7115842   | U0322.0560.HEK |                               |                                       |  |
| 5,7                  | 28             | 66             | 20             | 6              | 7115682   | U0322.0570.HAK | 7115843   | U0322.0570.HEK |                               |                                       |  |
| 5,75                 | 28             | 66             | 20             | 6              | 7115683   | U0322.0575.HAK | 7115844   | U0322.0575.HEK |                               | UNC 1/4                               |  |
| 5,8                  | 28             | 66             | 20             | 6              | 7115684   | U0322.0580.HAK | 7115845   | U0322.0580.HEK |                               |                                       |  |
| 5,9                  | 28             | 66             | 20             | 6              | 7115685   | U0322.0590.HAK | 7115846   | U0322.0590.HEK |                               | UNF 1/4                               |  |
| 6                    | 28             | 66             | 20             | 6              | 7115686   | U0322.0600.HAK | 7115847   | U0322.0600.HEK | M 7 x 1                       |                                       |  |
| 6,1                  | 34             | 79             | 24             | 8              | 7115687   | U0322.0610.HAK | 7115848   | U0322.0610.HEK |                               |                                       |  |
| 6,2                  | 34             | 79             | 24             | 8              | 7115688   | U0322.0620.HAK | 7115849   | U0322.0620.HEK |                               |                                       |  |
| 6,25                 | 34             | 79             | 24             | 8              | 7115689   | U0322.0625.HAK | 7115850   | U0322.0625.HEK | MF 7 x 0,75                   |                                       |  |
| 6,3                  | 34             | 79             | 24             | 8              | 7115690   | U0322.0630.HAK | 7115851   | U0322.0630.HEK |                               |                                       |  |
| 6,4                  | 34             | 79             | 24             | 8              | 7115691   | U0322.0640.HAK | 7115852   | U0322.0640.HEK |                               |                                       |  |
| 6,5                  | 34             | 79             | 24             | 8              | 7115692   | U0322.0650.HAK | 7115853   | U0322.0650.HEK |                               |                                       |  |
| 6,55                 | 34             | 79             | 24             | 8              | 7115693   | U0322.0655.HAK | 7115854   | U0322.0655.HEK |                               | M 7 x 1                               |  |
| 6,6                  | 34             | 79             | 24             | 8              | 7115694   | U0322.0660.HAK | 7115855   | U0322.0660.HEK | UNC 5/16                      |                                       |  |
| 6,7                  | 34             | 79             | 24             | 8              | 7115695   | U0322.0670.HAK | 7115856   | U0322.0670.HEK |                               |                                       |  |

Schnittwertempfehlungen siehe Seite 18  
Cutting data recommendations see page 18

■ = Hauptanwendung First choice  
□ = Nebenanwendung Alternative



| Katalog-Nr. Cat.-No. |                | 3223C          |                |                |           | 3233C          |           |                |                               |                                       |  |
|----------------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|----------------|-------------------------------|---------------------------------------|--|
| <b>P</b>             |                | ■              |                |                |           | ■              |           |                |                               |                                       |  |
| <b>M</b>             |                | □              |                |                |           | □              |           |                |                               |                                       |  |
| <b>K</b>             |                | ■              |                |                |           | ■              |           |                |                               |                                       |  |
| <b>N</b>             |                |                |                |                |           |                |           |                |                               |                                       |  |
| <b>S</b>             |                |                |                |                |           |                |           |                |                               |                                       |  |
| <b>H</b>             |                |                |                |                |           |                |           |                |                               |                                       |  |
| d <sub>1</sub>       | l <sub>2</sub> | l <sub>1</sub> | l <sub>3</sub> | d <sub>2</sub> | Ident No. | LMT-Code       | Ident No. | LMT-Code       | Für Gewindebohren<br>For taps | Für Gewindeformen<br>For forming taps |  |
| 6,8                  | 34             | 79             | 24             | 8              | 7115696   | U0322.0680.HAK | 7115857   | U0322.0680.HEK | M 8 x 1,25;<br>G 1/16         |                                       |  |
| 6,9                  | 34             | 79             | 24             | 8              | 7115697   | U0322.0690.HAK | 7115858   | U0322.0690.HEK | UNF 5/16                      |                                       |  |
| 7                    | 34             | 79             | 24             | 8              | 7115698   | U0322.0700.HAK | 7115859   | U0322.0700.HEK | MF 8 x 1                      |                                       |  |
| 7,1                  | 41             | 79             | 29             | 8              | 7115699   | U0322.0710.HAK | 7115860   | U0322.0710.HEK |                               |                                       |  |
| 7,2                  | 41             | 79             | 29             | 8              | 7115700   | U0322.0720.HAK | 7115861   | U0322.0720.HEK |                               |                                       |  |
| 7,25                 | 41             | 79             | 29             | 8              | 7115701   | U0322.0725.HAK | 7115862   | U0322.0725.HEK | MF 8 x 0,75                   | UNC 5/16;<br>G 1/16                   |  |
| 7,3                  | 41             | 79             | 29             | 8              | 7115702   | U0322.0730.HAK | 7115863   | U0322.0730.HEK |                               |                                       |  |
| 7,4                  | 41             | 79             | 29             | 8              | 7115703   | U0322.0740.HAK | 7115864   | U0322.0740.HEK |                               |                                       |  |
| 7,45                 | 41             | 79             | 29             | 8              | 7115704   | U0322.0745.HAK | 7115865   | U0322.0745.HEK |                               | M 8 x 1,25;<br>UNF 5/16               |  |
| 7,5                  | 41             | 79             | 29             | 8              | 7115705   | U0322.0750.HAK | 7115866   | U0322.0750.HEK | MF 8 x 0,5                    |                                       |  |
| 7,55                 | 41             | 79             | 29             | 8              | 7115706   | U0322.0755.HAK | 7115867   | U0322.0755.HEK |                               | MF 8 x 1                              |  |
| 7,6                  | 41             | 79             | 29             | 8              | 7115707   | U0322.0760.HAK | 7115868   | U0322.0760.HEK |                               |                                       |  |
| 7,7                  | 41             | 79             | 29             | 8              | 7115708   | U0322.0770.HAK | 7115869   | U0322.0770.HEK |                               |                                       |  |
| 7,8                  | 41             | 79             | 29             | 8              | 7115709   | U0322.0780.HAK | 7115870   | U0322.0780.HEK | M 9 x 1,25                    |                                       |  |
| 7,9                  | 41             | 79             | 29             | 8              | 7115710   | U0322.0790.HAK | 7115871   | U0322.0790.HEK |                               |                                       |  |
| 8                    | 41             | 79             | 29             | 8              | 7115711   | U0322.0800.HAK | 7115872   | U0322.0800.HEK | MF 9 x 1;<br>UNC 3/8          |                                       |  |
| 8,1                  | 47             | 89             | 35             | 10             | 7115712   | U0322.0810.HAK | 7115873   | U0322.0810.HEK |                               |                                       |  |
| 8,2                  | 47             | 89             | 35             | 10             | 7115713   | U0322.0820.HAK | 7115874   | U0322.0820.HEK |                               |                                       |  |
| 8,3                  | 47             | 89             | 35             | 10             | 7115714   | U0322.0830.HAK | 7115875   | U0322.0830.HEK | MF 9 x 0,75                   |                                       |  |
| 8,4                  | 47             | 89             | 35             | 10             | 7115715   | U0322.0840.HAK | 7115876   | U0322.0840.HEK |                               | M 9 x 1,25                            |  |
| 8,45                 | 47             | 89             | 35             | 10             | 7115716   | U0322.0845.HAK | 7115877   | U0322.0845.HEK |                               |                                       |  |
| 8,5                  | 47             | 89             | 35             | 10             | 7115717   | U0322.0850.HAK | 7115878   | U0322.0850.HEK | M 10 x 1,5;<br>UNF 3/8        |                                       |  |
| 8,55                 | 47             | 89             | 35             | 10             | 7115718   | U0322.0855.HAK | 7115879   | U0322.0855.HEK |                               | MF 9 x 1                              |  |
| 8,6                  | 47             | 89             | 35             | 10             | 7115719   | U0322.0860.HAK | 7115880   | U0322.0860.HEK |                               |                                       |  |
| 8,7                  | 47             | 89             | 35             | 10             | 7115720   | U0322.0870.HAK | 7115881   | U0322.0870.HEK |                               |                                       |  |
| 8,75                 | 47             | 89             | 35             | 10             | 7115721   | U0322.0875.HAK | 7115882   | U0322.0875.HEK | MF 10 x 1,25                  | UNC 3/8                               |  |

Schnittwertempfehlungen siehe Seite 18  
Cutting data recommendations see page 18

■ = Hauptanwendung First choice  
□ = Nebenanwendung Alternative

■ für HPF-Gewindeformer  
für HPF-Forming taps





| Katalog-Nr. Cat.-No. |                | 3223C          |                |                | 3233C     |                |           |                |                               |                                       |
|----------------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|----------------|-------------------------------|---------------------------------------|
| P                    |                | ■              |                |                | ■         |                |           |                |                               |                                       |
| M                    |                | □              |                |                | □         |                |           |                |                               |                                       |
| K                    |                | ■              |                |                | ■         |                |           |                |                               |                                       |
| N                    |                |                |                |                |           |                |           |                |                               |                                       |
| S                    |                |                |                |                |           |                |           |                |                               |                                       |
| H                    |                |                |                |                |           |                |           |                |                               |                                       |
| d <sub>1</sub>       | l <sub>2</sub> | l <sub>1</sub> | l <sub>3</sub> | d <sub>2</sub> | Ident No. | LMT-Code       | Ident No. | LMT-Code       | Für Gewindebohren<br>For taps | Für Gewindeformen<br>For forming taps |
| 8,8                  | 47             | 89             | 35             | 10             | 7115722   | U0322.0880.HAK | 7115883   | U0322.0880.HEK | G 1/8                         |                                       |
| 8,9                  | 47             | 89             | 35             | 10             | 7115723   | U0322.0890.HAK | 7115884   | U0322.0890.HEK |                               |                                       |
| 9                    | 47             | 89             | 35             | 10             | 7115724   | U0322.0900.HAK | 7115885   | U0322.0900.HEK | MF 10 x 1                     | UNF 3/8                               |
| 9,1                  | 47             | 89             | 35             | 10             | 7115725   | U0322.0910.HAK | 7115886   | U0322.0910.HEK |                               |                                       |
| 9,2                  | 47             | 89             | 35             | 10             | 7115726   | U0322.0920.HAK | 7115887   | U0322.0920.HEK |                               |                                       |
| 9,25                 | 47             | 89             | 35             | 10             | 7115727   | U0322.0925.HAK | 7115888   | U0322.0925.HEK | MF 10 x 0,75                  | G 1/8                                 |
| 9,3                  | 47             | 89             | 35             | 10             | 7115728   | U0322.0930.HAK | 7115889   | U0322.0930.HEK |                               |                                       |
| 9,35                 | 47             | 89             | 35             | 10             | 7115729   | U0322.0935.HAK | 7115890   | U0322.0935.HEK |                               | M 10 x 1,5                            |
| 9,4                  | 47             | 89             | 35             | 10             | 7115730   | U0322.0940.HAK | 7115891   | U0322.0940.HEK | UNC 7/16                      | MF 10 x 1,25                          |
| 9,5                  | 47             | 89             | 35             | 10             | 7115731   | U0322.0950.HAK | 7115892   | U0322.0950.HEK | M 11 x 1,5                    |                                       |
| 9,55                 | 47             | 89             | 35             | 10             | 7115732   | U0322.0955.HAK | 7115893   | U0322.0955.HEK |                               | MF 10 x 1                             |
| 9,6                  | 47             | 89             | 35             | 10             | 7115733   | U0322.0960.HAK | 7115894   | U0322.0960.HEK |                               |                                       |
| 9,7                  | 47             | 89             | 35             | 10             | 7115734   | U0322.0970.HAK | 7115895   | U0322.0970.HEK |                               | MF 10 x 0,75                          |
| 9,8                  | 47             | 89             | 35             | 10             | 7115735   | U0322.0980.HAK | 7115896   | U0322.0980.HEK |                               |                                       |
| 9,9                  | 47             | 89             | 35             | 10             | 7115736   | U0322.0990.HAK | 7115897   | U0322.0990.HEK | UNF 7/16                      |                                       |
| 10                   | 47             | 89             | 35             | 10             | 7115737   | U0322.1000.HAK | 7115898   | U0322.1000.HEK | MF 11 x 1                     |                                       |
| 10,1                 | 55             | 102            | 40             | 12             | 7115738   | U0322.1010.HAK | 7115899   | U0322.1010.HEK |                               |                                       |
| 10,2                 | 55             | 102            | 40             | 12             | 7115739   | U0322.1020.HAK | 7115900   | U0322.1020.HEK | M 12 x 1,75                   | UNC 7/16                              |
| 10,3                 | 55             | 102            | 40             | 12             | 7115740   | U0322.1030.HAK | 7115901   | U0322.1030.HEK |                               |                                       |
| 10,35                | 55             | 102            | 40             | 12             | 7115741   | U0322.1035.HAK | 7115902   | U0322.1035.HEK |                               |                                       |
| 10,4                 | 55             | 102            | 40             | 12             | 7115742   | U0322.1040.HAK | 7115903   | U0322.1040.HEK |                               |                                       |
| 10,5                 | 55             | 102            | 40             | 12             | 7115743   | U0322.1050.HAK | 7115904   | U0322.1050.HEK | MF 12 x 1,5                   | UNF 7/16                              |
| 10,55                | 55             | 102            | 40             | 12             | 7115744   | U0322.1055.HAK | 7115905   | U0322.1055.HEK |                               | MF 11 x 1                             |
| 10,6                 | 55             | 102            | 40             | 12             | 7115745   | U0322.1060.HAK | 7115906   | U0322.1060.HEK |                               |                                       |
| 10,7                 | 55             | 102            | 40             | 12             | 7115746   | U0322.1070.HAK | 7115907   | U0322.1070.HEK |                               |                                       |
| 10,8                 | 55             | 102            | 40             | 12             | 7115747   | U0322.1080.HAK | 7115908   | U0322.1080.HEK | MF 12 x 1,25;<br>UNC 1/2      |                                       |
| 10,9                 | 55             | 102            | 40             | 12             | 7115748   | U0322.1090.HAK | 7115909   | U0322.1090.HEK |                               |                                       |
| 11                   | 55             | 102            | 40             | 12             | 7115749   | U0322.1100.HAK | 7115910   | U0322.1100.HEK | MF 12 x 1                     |                                       |
| 11,1                 | 55             | 102            | 40             | 12             | 7115750   | U0322.1110.HAK | 7115911   | U0322.1110.HEK |                               |                                       |
| 11,2                 | 55             | 102            | 40             | 12             | 7115751   | U0322.1120.HAK | 7115912   | U0322.1120.HEK |                               | M 12 x 1,75                           |

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■ = Hauptanwendung First choice  
□ = Nebenanwendung Alternative

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| Katalog-Nr.    |                | Cat.-No.       |                | 3223C          |           | 3233C          |           |                |                               |                                       |
|----------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|----------------|-------------------------------|---------------------------------------|
| P              |                |                |                | ■              |           |                |           | ■              |                               |                                       |
| M              |                |                |                | □              |           |                |           | □              |                               |                                       |
| K              |                |                |                | ■              |           |                |           | ■              |                               |                                       |
| N              |                |                |                |                |           |                |           |                |                               |                                       |
| S              |                |                |                |                |           |                |           |                |                               |                                       |
| H              |                |                |                |                |           |                |           |                |                               |                                       |
| d <sub>1</sub> | l <sub>2</sub> | l <sub>1</sub> | l <sub>3</sub> | d <sub>2</sub> | Ident No. | LMT-Code       | Ident No. | LMT-Code       | Für Gewindebohren<br>For taps | Für Gewindeformen<br>For forming taps |
| 11,3           | 55             | 102            | 40             | 12             | 7115752   | U0322.1130.HAK | 7115913   | U0322.1130.HEK |                               | MF 12 x 1,5                           |
| 11,4           | 55             | 102            | 40             | 12             | 7115753   | U0322.1140.HAK | 7115914   | U0322.1140.HEK |                               | MF 12 x 1,25                          |
| 11,5           | 55             | 102            | 40             | 12             | 7115754   | U0322.1150.HAK | 7115915   | U0322.1150.HEK | UNF 1/2                       |                                       |
| 11,55          | 55             | 102            | 40             | 12             | 7115755   | U0322.1155.HAK | 7115916   | U0322.1155.HEK |                               | MF 12 x 1                             |
| 11,6           | 55             | 102            | 40             | 12             | 7115756   | U0322.1160.HAK | 7115917   | U0322.1160.HEK |                               |                                       |
| 11,7           | 55             | 102            | 40             | 12             | 7115757   | U0322.1170.HAK | 7115918   | U0322.1170.HEK |                               | UNC 1/2                               |
| 11,8           | 55             | 102            | 40             | 12             | 7115758   | U0322.1180.HAK | 7115919   | U0322.1180.HEK | G 1/4                         |                                       |
| 11,9           | 55             | 102            | 40             | 12             | 7115759   | U0322.1190.HAK | 7115920   | U0322.1190.HEK |                               |                                       |
| 12             | 55             | 102            | 40             | 12             | 7115760   | U0322.1200.HAK | 7115921   | U0322.1200.HEK | M 14 x 2                      |                                       |
| 12,1           | 60             | 107            | 43             | 14             | 7115761   | U0322.1210.HAK | 7115922   | U0322.1210.HEK |                               | UNF 1/2                               |
| 12,2           | 60             | 107            | 43             | 14             | 7115762   | U0322.1220.HAK | 7115923   | U0322.1220.HEK | UNC 9/16                      |                                       |
| 12,5           | 60             | 107            | 43             | 14             | 7115763   | U0322.1250.HAK | 7115924   | U0322.1250.HEK | MF 14 x 1,5                   | G 1/4                                 |
| 12,8           | 60             | 107            | 43             | 14             | 7115764   | U0322.1280.HAK | 7115925   | U0322.1280.HEK | MF 14 x 1,25                  |                                       |
| 12,9           | 60             | 107            | 43             | 14             | 7115765   | U0322.1290.HAK | 7115926   | U0322.1290.HEK | UNF 9/16                      |                                       |
| 13             | 60             | 107            | 43             | 14             | 7115766   | U0322.1300.HAK | 7115927   | U0322.1300.HEK | MF 14 x 1                     |                                       |
| 13,1           | 60             | 107            | 43             | 14             | 7115767   | U0322.1310.HAK | 7115928   | U0322.1310.HEK |                               | M 14 x 2                              |
| 13,2           | 60             | 107            | 43             | 14             | 7115768   | U0322.1320.HAK | 7115929   | U0322.1320.HEK |                               | UNC 9/16                              |
| 13,3           | 60             | 107            | 43             | 14             | 7115769   | U0322.1330.HAK | 7115930   | U0322.1330.HEK |                               | MF 14 x 1,5                           |
| 13,5           | 60             | 107            | 43             | 14             | 7115770   | U0322.1350.HAK | 7115931   | U0322.1350.HEK | MF 15 x 1,5;<br>UNC 5/8       |                                       |
| 13,55          | 60             | 107            | 43             | 14             | 7115771   | U0322.1355.HAK | 7115932   | U0322.1355.HEK |                               | MF 14 x 1                             |
| 13,6           | 60             | 107            | 43             | 14             | 7115772   | U0322.1360.HAK | 7115933   | U0322.1360.HEK |                               | UNF 9/16                              |
| 13,8           | 60             | 107            | 43             | 14             | 7115773   | U0322.1380.HAK | 7115934   | U0322.1380.HEK |                               |                                       |
| 14             | 60             | 107            | 43             | 14             | 7115774   | U0322.1400.HAK | 7115935   | U0322.1400.HEK | M 16 x 2;<br>MF 15 x 1        |                                       |
| 14,5           | 65             | 115            | 45             | 16             | 7115775   | U0322.1450.HAK | 7115936   | U0322.1450.HEK | MF 16 x 1,5;<br>UNF 5/8       |                                       |
| 14,8           | 65             | 115            | 45             | 16             | 7115776   | U0322.1480.HAK | 7115937   | U0322.1480.HEK |                               | UNC 5/8                               |
| 15             | 65             | 115            | 45             | 16             | 7115777   | U0322.1500.HAK | 7115938   | U0322.1500.HEK | MF 16 x 1                     |                                       |
| 15,05          | 65             | 115            | 45             | 16             | 7115778   | U0322.1505.HAK | 7115939   | U0322.1505.HEK |                               | M 16 x 2                              |
| 15,2           | 65             | 115            | 45             | 16             | 7115779   | U0322.1520.HAK | 7115940   | U0322.1520.HEK |                               | UNF 5/8                               |

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■ = Hauptanwendung First choice  
□ = Nebenanwendung Alternative

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| Katalog-Nr. Cat.-No. |                | 3223C          |                |                | 3233C     |                |           |                |                               |                                       |
|----------------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|----------------|-------------------------------|---------------------------------------|
| P                    |                | ■              |                |                | ■         |                |           |                |                               |                                       |
| M                    |                | □              |                |                | □         |                |           |                |                               |                                       |
| K                    |                | ■              |                |                | ■         |                |           |                |                               |                                       |
| N                    |                |                |                |                |           |                |           |                |                               |                                       |
| S                    |                |                |                |                |           |                |           |                |                               |                                       |
| H                    |                |                |                |                |           |                |           |                |                               |                                       |
| d <sub>1</sub>       | l <sub>2</sub> | l <sub>1</sub> | l <sub>3</sub> | d <sub>2</sub> | Ident No. | LMT-Code       | Ident No. | LMT-Code       | Für Gewindebohren<br>For taps | Für Gewindeformen<br>For forming taps |
| 15,3                 | 65             | 115            | 45             | 16             | 7115780   | U0322.1530.HAK | 7115941   | U0322.1530.HEK | G 3/8                         | MF 16 x 1,5                           |
| 15,5                 | 65             | 115            | 45             | 16             | 7115781   | U0322.1550.HAK | 7115942   | U0322.1550.HEK | M 18 x 2,5                    |                                       |
| 15,55                | 65             | 115            | 45             | 16             | 7115782   | U0322.1555.HAK | 7115943   | U0322.1555.HEK |                               | MF 16 x 1                             |
| 15,8                 | 65             | 115            | 45             | 16             | 7115783   | U0322.1580.HAK | 7115944   | U0322.1580.HEK |                               |                                       |
| 16                   | 65             | 115            | 45             | 16             | 7115784   | U0322.1600.HAK | 7115945   | U0322.1600.HEK | MF 18 x 2                     | G 3/8                                 |
| 16,5                 | 73             | 123            | 51             | 18             | 7115785   | U0322.1650.HAK | 7115946   | U0322.1650.HEK | MF 18 x 1,5;<br>UNC 3/4       |                                       |
| 16,8                 | 73             | 123            | 51             | 18             | 7115786   | U0322.1680.HAK | 7115947   | U0322.1680.HEK |                               | M 18 x 2,5                            |
| 17                   | 73             | 123            | 51             | 18             | 7115787   | U0322.1700.HAK | 7115948   | U0322.1700.HEK | MF 18 x 1                     |                                       |
| 17,05                | 73             | 123            | 51             | 18             | 7115788   | U0322.1705.HAK | 7115949   | U0322.1705.HEK |                               | MF 18 x 2                             |
| 17,3                 | 73             | 123            | 51             | 18             | 7115789   | U0322.1730.HAK | 7115950   | U0322.1730.HEK |                               | MF 18 x 1,5                           |
| 17,5                 | 73             | 123            | 51             | 18             | 7115790   | U0322.1750.HAK | 7115951   | U0322.1750.HEK | M 20 x 2,5;<br>UNF 3/4        |                                       |
| 17,55                | 73             | 123            | 51             | 18             | 7115791   | U0322.1755.HAK | 7115952   | U0322.1755.HEK |                               | MF 18 x 1                             |
| 17,8                 | 73             | 123            | 51             | 18             | 7115792   | U0322.1780.HAK | 7115953   | U0322.1780.HEK |                               | UNC 3/4                               |
| 18                   | 73             | 123            | 51             | 18             | 7115793   | U0322.1800.HAK | 7115954   | U0322.1800.HEK | MF 20 x 2                     |                                       |
| 18,3                 | 79             | 131            | 55             | 20             | 7115794   | U0322.1830.HAK | 7115955   | U0322.1830.HEK |                               | UNF 3/4                               |
| 18,5                 | 79             | 131            | 55             | 20             | 7115795   | U0322.1850.HAK | 7115956   | U0322.1850.HEK | MF 20 x 1,5                   |                                       |
| 18,8                 | 79             | 131            | 55             | 20             | 7115796   | U0322.1880.HAK | 7115957   | U0322.1880.HEK |                               | M 20 x 2,5                            |
| 19                   | 79             | 131            | 55             | 20             | 7115797   | U0322.1900.HAK | 7115958   | U0322.1900.HEK | MF 20 x 1;<br>G 1/2           |                                       |
| 19,3                 | 79             | 131            | 55             | 20             | 7115798   | U0322.1930.HAK | 7115959   | U0322.1930.HEK |                               | MF 20 x 1,5                           |
| 19,5                 | 79             | 131            | 55             | 20             | 7115799   | U0322.1950.HAK | 7115960   | U0322.1950.HEK | M 22 x 2,5;<br>UNC 7/8        |                                       |
| 19,8                 | 79             | 131            | 55             | 20             | 7115800   | U0322.1980.HAK | 7115961   | U0322.1980.HEK |                               |                                       |
| 20                   | 79             | 131            | 55             | 20             | 7115801   | U0322.2000.HAK | 7115962   | U0322.2000.HEK | MF 22 x 2                     | G 1/2                                 |

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