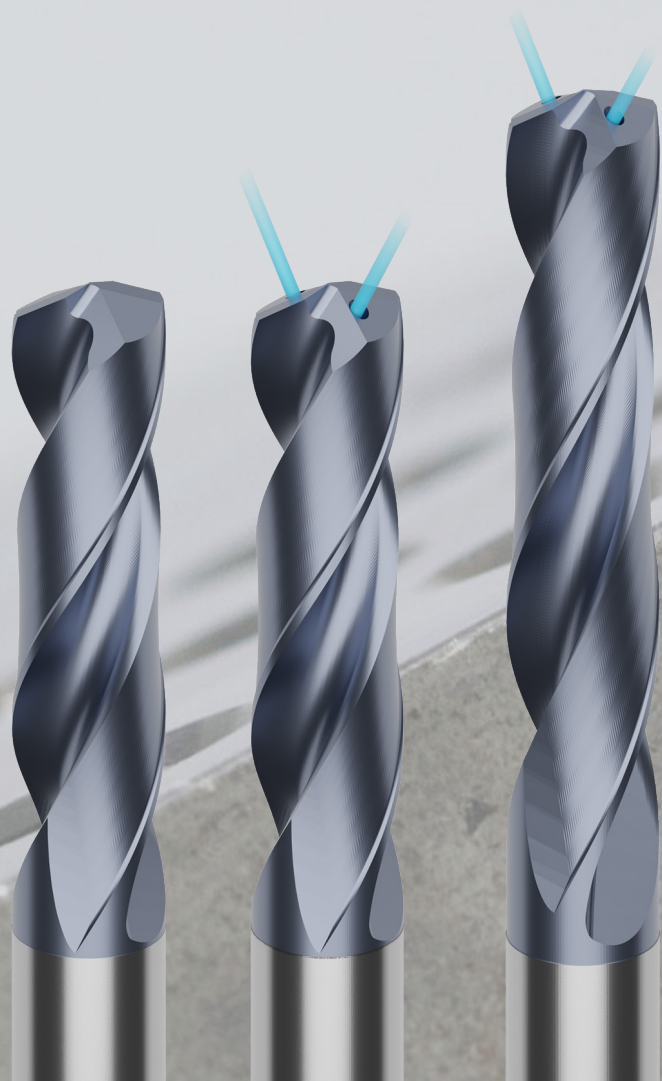


# **RAGOTZKY+GÄTJE HANS TREIBER**

■ Made  
■ in  
■ Germany



## **HPC - Bohrer**

**InovaTools**®  
GERMAN TOOLS GROUP

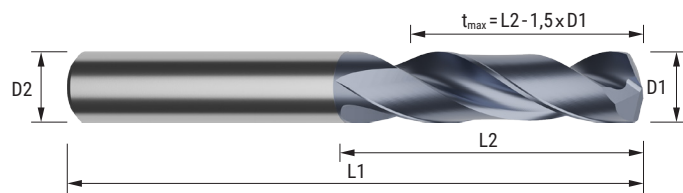
[shop.ragotzkygaetje.de](http://shop.ragotzkygaetje.de)  
[shop.hanstreiber.de](http://shop.hanstreiber.de)

**GP VHM-Spiralbohrer 3xD**

Solid carbide drill 3xD

Foret carbure 3xD

**651...**



| Werkzeugdaten<br>Tool data / Données d'outils |          |    |    |   | Werkzeugempfehlung<br>Tool Recommendation / Conseils d'outil |     |     | Einsatz<br>Capabilities / Utilisation                            |                                                                  |
|-----------------------------------------------|----------|----|----|---|--------------------------------------------------------------|-----|-----|------------------------------------------------------------------|------------------------------------------------------------------|
|                                               |          |    |    |   |                                                              |     |     |                                                                  |                                                                  |
| D1<br>m7                                      | D2<br>h6 | L2 | L1 | Z | Artikel-Nr.<br>Article-No.<br>Référence                      | HA  | HB  | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en € | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en € |
| 1,00                                          | 4,00     | 7  | 45 | 2 | 651.010...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 1,30                                          | 4,00     | 7  | 45 | 2 | 651.013...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 1,50                                          | 4,00     | 14 | 55 | 2 | 651.015...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 1,60                                          | 4,00     | 14 | 55 | 2 | 651.016...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 1,70                                          | 4,00     | 14 | 55 | 2 | 651.017...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 1,80                                          | 4,00     | 14 | 55 | 2 | 651.018...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 1,90                                          | 4,00     | 14 | 55 | 2 | 651.019...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,00                                          | 4,00     | 20 | 55 | 2 | 651.020...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,10                                          | 4,00     | 20 | 55 | 2 | 651.021...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,20                                          | 4,00     | 20 | 55 | 2 | 651.022...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,30                                          | 4,00     | 20 | 55 | 2 | 651.023...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,40                                          | 4,00     | 20 | 55 | 2 | 651.024...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,50                                          | 4,00     | 20 | 55 | 2 | 651.025...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,60                                          | 4,00     | 20 | 55 | 2 | 651.026...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,70                                          | 4,00     | 20 | 55 | 2 | 651.027...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,80                                          | 4,00     | 20 | 55 | 2 | 651.028...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 2,90                                          | 4,00     | 20 | 55 | 2 | 651.029...                                                   | .00 | -   | 39,19                                                            | -                                                                |
| 3,00                                          | 6,00     | 20 | 62 | 2 | 651.030...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,10                                          | 6,00     | 20 | 62 | 2 | 651.031...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,20                                          | 6,00     | 20 | 62 | 2 | 651.032...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,30                                          | 6,00     | 20 | 62 | 2 | 651.033...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,40                                          | 6,00     | 20 | 62 | 2 | 651.034...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,50                                          | 6,00     | 20 | 62 | 2 | 651.035...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,60                                          | 6,00     | 20 | 62 | 2 | 651.036...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,70                                          | 6,00     | 20 | 62 | 2 | 651.037...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,80                                          | 6,00     | 24 | 66 | 2 | 651.038...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 3,90                                          | 6,00     | 24 | 66 | 2 | 651.039...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,00                                          | 6,00     | 24 | 66 | 2 | 651.040...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,10                                          | 6,00     | 24 | 66 | 2 | 651.041...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,20                                          | 6,00     | 24 | 66 | 2 | 651.042...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,30                                          | 6,00     | 24 | 66 | 2 | 651.043...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,40                                          | 6,00     | 24 | 66 | 2 | 651.044...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,50                                          | 6,00     | 24 | 66 | 2 | 651.045...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,60                                          | 6,00     | 24 | 66 | 2 | 651.046...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,80                                          | 6,00     | 28 | 66 | 2 | 651.048...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 4,90                                          | 6,00     | 28 | 66 | 2 | 651.049...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,00                                          | 6,00     | 28 | 66 | 2 | 651.050...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,10                                          | 6,00     | 28 | 66 | 2 | 651.051...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,20                                          | 6,00     | 28 | 66 | 2 | 651.052...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,30                                          | 6,00     | 28 | 66 | 2 | 651.053...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,40                                          | 6,00     | 28 | 66 | 2 | 651.054...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,50                                          | 6,00     | 28 | 66 | 2 | 651.055...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,55                                          | 6,00     | 28 | 66 | 2 | 651.555...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,60                                          | 6,00     | 28 | 66 | 2 | 651.056...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,80                                          | 6,00     | 28 | 66 | 2 | 651.058...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 5,90                                          | 6,00     | 28 | 66 | 2 | 651.059...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 6,00                                          | 6,00     | 28 | 66 | 2 | 651.060...                                                   | .00 | .10 | 36,06                                                            | 37,51                                                            |
| 6,10                                          | 8,00     | 34 | 79 | 2 | 651.061...                                                   | .00 | .10 | 44,45                                                            | 46,12                                                            |



## VHM-Spiralbohrer 3xD

Solid carbide drill 3xD

Foret carbure 3xD

**651...**

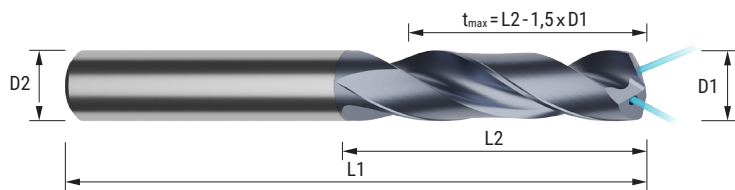


| Werkzeugdaten<br>Tool data / Données d'outils |          |    |     |   | Werkzeugeempfehlung<br>Tool Recommendation / Conseils d'outil |     |     | Einsatz<br>Capabilities / Utilisation                            |                                                                  |
|-----------------------------------------------|----------|----|-----|---|---------------------------------------------------------------|-----|-----|------------------------------------------------------------------|------------------------------------------------------------------|
|                                               |          |    |     |   |                                                               |     |     |                                                                  |                                                                  |
| D1<br>m7                                      | D2<br>h6 | L2 | L1  | Z | Artikel-Nr.<br>Article-No.<br>Référence                       |     |     | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en € | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en € |
| 6,20                                          | 8,00     | 34 | 79  | 2 | 651.062...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,30                                          | 8,00     | 34 | 79  | 2 | 651.063...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,40                                          | 8,00     | 34 | 79  | 2 | 651.064...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,50                                          | 8,00     | 34 | 79  | 2 | 651.065...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,60                                          | 8,00     | 34 | 79  | 2 | 651.066...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,70                                          | 8,00     | 34 | 79  | 2 | 651.067...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,80                                          | 8,00     | 34 | 79  | 2 | 651.068...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 6,90                                          | 8,00     | 34 | 79  | 2 | 651.069...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,00                                          | 8,00     | 34 | 79  | 2 | 651.070...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,10                                          | 8,00     | 41 | 79  | 2 | 651.071...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,20                                          | 8,00     | 41 | 79  | 2 | 651.072...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,30                                          | 8,00     | 41 | 79  | 2 | 651.073...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,40                                          | 8,00     | 41 | 79  | 2 | 651.074...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,50                                          | 8,00     | 41 | 79  | 2 | 651.075...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 7,80                                          | 8,00     | 41 | 79  | 2 | 651.078...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 8,00                                          | 8,00     | 41 | 79  | 2 | 651.080...                                                    | .00 | .10 | 44,45                                                            | 46,12                                                            |
| 8,10                                          | 10,00    | 47 | 89  | 2 | 651.081...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 8,20                                          | 10,00    | 47 | 89  | 2 | 651.082...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 8,40                                          | 10,00    | 47 | 89  | 2 | 651.084...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 8,50                                          | 10,00    | 47 | 89  | 2 | 651.085...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 8,60                                          | 10,00    | 47 | 89  | 2 | 651.086...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 8,80                                          | 10,00    | 47 | 89  | 2 | 651.088...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,00                                          | 10,00    | 47 | 89  | 2 | 651.090...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,10                                          | 10,00    | 47 | 89  | 2 | 651.091...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,30                                          | 10,00    | 47 | 89  | 2 | 651.093...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,50                                          | 10,00    | 47 | 89  | 2 | 651.095...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,70                                          | 10,00    | 47 | 89  | 2 | 651.097...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,80                                          | 10,00    | 47 | 89  | 2 | 651.098...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 9,90                                          | 10,00    | 47 | 89  | 2 | 651.099...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 10,00                                         | 10,00    | 47 | 89  | 2 | 651.100...                                                    | .00 | .10 | 61,15                                                            | 64,25                                                            |
| 10,20                                         | 12,00    | 55 | 102 | 2 | 651.102...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 10,30                                         | 12,00    | 55 | 102 | 2 | 651.103...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 10,50                                         | 12,00    | 55 | 102 | 2 | 651.105...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 10,80                                         | 12,00    | 55 | 102 | 2 | 651.108...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 11,00                                         | 12,00    | 55 | 102 | 2 | 651.110...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 11,20                                         | 12,00    | 55 | 102 | 2 | 651.112...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 11,50                                         | 12,00    | 55 | 102 | 2 | 651.115...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 11,80                                         | 12,00    | 55 | 102 | 2 | 651.118...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 12,00                                         | 12,00    | 55 | 102 | 2 | 651.120...                                                    | .00 | .10 | 89,18                                                            | 92,28                                                            |
| 12,20                                         | 14,00    | 60 | 107 | 2 | 651.122...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 12,50                                         | 14,00    | 60 | 107 | 2 | 651.125...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 12,80                                         | 14,00    | 60 | 107 | 2 | 651.128...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 13,00                                         | 14,00    | 60 | 107 | 2 | 651.130...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 13,50                                         | 14,00    | 60 | 107 | 2 | 651.135...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 13,80                                         | 14,00    | 60 | 107 | 2 | 651.138...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 14,00                                         | 14,00    | 60 | 107 | 2 | 651.140...                                                    | .00 | .10 | 121,21                                                           | 124,36                                                           |
| 14,20                                         | 16,00    | 65 | 115 | 2 | 651.142...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 14,50                                         | 16,00    | 65 | 115 | 2 | 651.145...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 14,80                                         | 16,00    | 65 | 115 | 2 | 651.148...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 15,00                                         | 16,00    | 65 | 115 | 2 | 651.150...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 15,20                                         | 16,00    | 65 | 115 | 2 | 651.152...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 15,50                                         | 16,00    | 65 | 115 | 2 | 651.155...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 15,80                                         | 16,00    | 65 | 115 | 2 | 651.158...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |
| 16,00                                         | 16,00    | 65 | 115 | 2 | 651.160...                                                    | .00 | .10 | 156,85                                                           | 161,22                                                           |

**GP**
**VHM-Spiralbohrer 3xD mit IK**

Solid carbide drill 3xD with IC

Foret carbure 3xD à trous d'huile

**652...**


| Werkzeugdaten<br>Tool data / Données d'outils |          |      |     |    | Werkzeugempfehlung<br>Tool Recommendation / Conseils d'outil |      |       | Einsatz<br>Capabilities / Utilisation                            |                                                                  |
|-----------------------------------------------|----------|------|-----|----|--------------------------------------------------------------|------|-------|------------------------------------------------------------------|------------------------------------------------------------------|
| TYP N-W                                       | 2        | 140° | IK  | HA | HB                                                           | Norm | TIALN | z                                                                | 3xD                                                              |
| D1<br>m7                                      | D2<br>h6 | L2   | L1  | Z  | Artikel-Nr.<br>Article-No.<br>Référence                      | HA   | HB    | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en € | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en € |
| 3,00                                          | 6,00     | 20   | 62  | 2  | 652.030...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 3,20                                          | 6,00     | 20   | 62  | 2  | 652.032...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 3,30                                          | 6,00     | 20   | 62  | 2  | 652.033...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 3,40                                          | 6,00     | 20   | 62  | 2  | 652.034...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 3,50                                          | 6,00     | 20   | 62  | 2  | 652.035...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 3,80                                          | 6,00     | 24   | 66  | 2  | 652.038...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,00                                          | 6,00     | 24   | 66  | 2  | 652.040...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,10                                          | 6,00     | 24   | 66  | 2  | 652.041...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,20                                          | 6,00     | 24   | 66  | 2  | 652.042...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,30                                          | 6,00     | 24   | 66  | 2  | 652.043...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,40                                          | 6,00     | 24   | 66  | 2  | 652.044...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,50                                          | 6,00     | 24   | 66  | 2  | 652.045...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,65                                          | 6,00     | 24   | 66  | 2  | 652.465...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,70                                          | 6,00     | 24   | 66  | 2  | 652.047...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 4,80                                          | 6,00     | 28   | 66  | 2  | 652.048...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 5,00                                          | 6,00     | 28   | 66  | 2  | 652.050...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 5,10                                          | 6,00     | 28   | 66  | 2  | 652.051...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 5,20                                          | 6,00     | 28   | 66  | 2  | 652.052...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 5,50                                          | 6,00     | 28   | 66  | 2  | 652.055...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 5,60                                          | 6,00     | 28   | 66  | 2  | 652.056...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 5,80                                          | 6,00     | 28   | 66  | 2  | 652.058...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 6,00                                          | 6,00     | 28   | 66  | 2  | 652.060...                                                   | .00  | .10   | 49,39                                                            | 50,83                                                            |
| 6,10                                          | 8,00     | 34   | 79  | 2  | 652.061...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 6,20                                          | 8,00     | 34   | 79  | 2  | 652.062...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 6,30                                          | 8,00     | 34   | 79  | 2  | 652.063...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 6,50                                          | 8,00     | 34   | 79  | 2  | 652.065...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 6,80                                          | 8,00     | 34   | 79  | 2  | 652.068...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 7,00                                          | 8,00     | 34   | 79  | 2  | 652.070...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 7,30                                          | 8,00     | 41   | 79  | 2  | 652.073...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 7,40                                          | 8,00     | 41   | 79  | 2  | 652.074...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 7,50                                          | 8,00     | 41   | 79  | 2  | 652.075...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 7,70                                          | 8,00     | 41   | 79  | 2  | 652.077...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 7,80                                          | 8,00     | 41   | 79  | 2  | 652.078...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 8,00                                          | 8,00     | 41   | 79  | 2  | 652.080...                                                   | .00  | .10   | 75,67                                                            | 77,34                                                            |
| 8,20                                          | 10,00    | 47   | 89  | 2  | 652.082...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 8,50                                          | 10,00    | 47   | 89  | 2  | 652.085...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 8,60                                          | 10,00    | 47   | 89  | 2  | 652.086...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 8,70                                          | 10,00    | 47   | 89  | 2  | 652.087...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 8,80                                          | 10,00    | 47   | 89  | 2  | 652.088...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 9,00                                          | 10,00    | 47   | 89  | 2  | 652.090...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 9,50                                          | 10,00    | 47   | 89  | 2  | 652.095...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 9,80                                          | 10,00    | 47   | 89  | 2  | 652.098...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 10,00                                         | 10,00    | 47   | 89  | 2  | 652.100...                                                   | .00  | .10   | 107,60                                                           | 110,67                                                           |
| 10,20                                         | 12,00    | 55   | 102 | 2  | 652.102...                                                   | .00  | .10   | 159,59                                                           | 162,69                                                           |
| 10,30                                         | 12,00    | 55   | 102 | 2  | 652.103...                                                   | .00  | .10   | 159,59                                                           | 162,69                                                           |
| 10,50                                         | 12,00    | 55   | 102 | 2  | 652.105...                                                   | .00  | .10   | 159,59                                                           | 162,69                                                           |
| 10,80                                         | 12,00    | 55   | 102 | 2  | 652.108...                                                   | .00  | .10   | 159,59                                                           | 162,69                                                           |
| 11,00                                         | 12,00    | 55   | 102 | 2  | 652.110...                                                   | .00  | .10   | 159,59                                                           | 162,69                                                           |
| 11,30                                         | 12,00    | 55   | 102 | 2  | 652.113...                                                   | .00  | .10   | 159,59                                                           | 162,69                                                           |

**GP**

## VHM-Spiralbohrer 3xD mit IK

Solid carbide drill 3xD with IC

Foret carbure 3xD à trous d'huile

**652...**



| Werkzeugdaten<br>Tool data / Données d'outils                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   | Werkzeugempfehlung<br>Tool Recommendation / Conseils d'outil                      |                                                                                    |                                                                                     | Einsatz<br>Capabilities / Utilisation                                             |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |  |   |    |  |  |  |
| D1<br>m7                                                                          | D2<br>h6                                                                          | L2                                                                                | L1                                                                                | Z                                                                                 | Artikel-Nr.<br>Article-No.<br>Référence                                           |  |  | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en €                  | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en €                  |                                                                                   |
| 11,50                                                                             | 12,00                                                                             | 55                                                                                | 102                                                                               | 2                                                                                 | 652.115...                                                                        | .00                                                                                | .10                                                                                 | 159,59                                                                            | 162,69                                                                            |                                                                                   |
| 11,80                                                                             | 12,00                                                                             | 55                                                                                | 102                                                                               | 2                                                                                 | 652.118...                                                                        | .00                                                                                | .10                                                                                 | 159,59                                                                            | 162,69                                                                            |                                                                                   |
| 12,00                                                                             | 12,00                                                                             | 55                                                                                | 102                                                                               | 2                                                                                 | 652.120...                                                                        | .00                                                                                | .10                                                                                 | 159,59                                                                            | 162,69                                                                            |                                                                                   |
| 12,20                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.122...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 12,50                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.125...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 12,80                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.128...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 13,00                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.130...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 13,50                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.135...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 13,80                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.138...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 14,00                                                                             | 14,00                                                                             | 60                                                                                | 107                                                                               | 2                                                                                 | 652.140...                                                                        | .00                                                                                | .10                                                                                 | 215,06                                                                            | 218,20                                                                            |                                                                                   |
| 14,20                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.142...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 14,50                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.145...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 14,80                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.148...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 15,00                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.150...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 15,20                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.152...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 15,50                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.155...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 15,80                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.158...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |
| 16,00                                                                             | 16,00                                                                             | 65                                                                                | 115                                                                               | 2                                                                                 | 652.160...                                                                        | .00                                                                                | .10                                                                                 | 255,53                                                                            | 259,92                                                                            |                                                                                   |

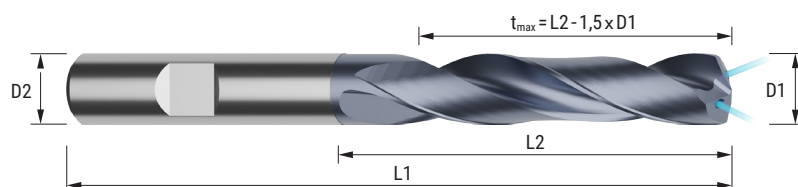
**GP**

## VHM-Spiralbohrer 5xD mit IK

Solid carbide drill 5xD with IC

Foret carbure 5xD à trous d'huile

**653...**



| Werkzeugdaten<br>Tool data / Données d'outils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |    |    |   | Werkzeugempfehlung<br>Tool Recommendation / Conseils d'outil                                                       |                                                                                                    |                                                                                                     | Einsatz<br>Capabilities / Utilisation                                                                                                                                                                           |                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|----|---|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <div>TYP N-W<div></div>2<div></div>IK<div></div><div></div><div></div><div></div></div> |          |    |    |   | <div>Universal<div></div></div> |                                                                                                    |                                                                                                     | <div><div></div>z<div></div>5xD</div> |                                                                  |
| D1<br>m7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | D2<br>h6 | L2 | L1 | Z | Artikel-Nr.<br>Article-No.<br>Référence                                                                            | <div></div> HA | <div></div> HB | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en €                                                                                                                                                | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en € |
| 1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 10 | 55 | 2 | 653.010...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 12 | 55 | 2 | 653.011...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 12 | 55 | 2 | 653.012...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 12 | 55 | 2 | 653.013...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 12 | 55 | 2 | 653.014...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 12 | 55 | 2 | 653.015...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 16 | 55 | 2 | 653.016...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 16 | 55 | 2 | 653.017...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 16 | 55 | 2 | 653.018...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 1,90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 16 | 55 | 2 | 653.019...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.020...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.021...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.022...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.023...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.024...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.025...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.026...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.027...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |
| 2,80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,00     | 21 | 57 | 2 | 653.028...                                                                                                         | .00                                                                                                | -                                                                                                   | 61,33                                                                                                                                                                                                           | -                                                                |



## VHM-Spiralbohrer 5xD mit IK

Solid carbide drill 5xD with IC

Foret carbure 5xD à trous d'huile

**653...**



| Werkzeugdaten<br>Tool data / Données d'outils |          |    |     |   | Werkzeugempfehlung<br>Tool Recommendation / Conseils d'outil |     |     | Einsatz<br>Capabilities / Utilisation                            |                                                                  |
|-----------------------------------------------|----------|----|-----|---|--------------------------------------------------------------|-----|-----|------------------------------------------------------------------|------------------------------------------------------------------|
|                                               |          |    |     |   |                                                              |     |     |                                                                  |                                                                  |
| D1<br>m7                                      | D2<br>h6 | L2 | L1  | Z | Artikel-Nr.<br>Article-No.<br>Référence                      |     |     | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en € | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en € |
| 2,90                                          | 3,00     | 21 | 57  | 2 | 653.029...                                                   | .00 | -   | 61,33                                                            | -                                                                |
| 3,00                                          | 6,00     | 28 | 66  | 2 | 653.030...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,10                                          | 6,00     | 28 | 66  | 2 | 653.031...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,20                                          | 6,00     | 28 | 66  | 2 | 653.032...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,25                                          | 6,00     | 28 | 66  | 2 | 653.325...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,30                                          | 6,00     | 28 | 66  | 2 | 653.033...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,40                                          | 6,00     | 28 | 66  | 2 | 653.034...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,50                                          | 6,00     | 28 | 66  | 2 | 653.035...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,60                                          | 6,00     | 28 | 66  | 2 | 653.036...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,65                                          | 6,00     | 28 | 66  | 2 | 653.365...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,70                                          | 6,00     | 28 | 66  | 2 | 653.037...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,80                                          | 6,00     | 36 | 74  | 2 | 653.038...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 3,90                                          | 6,00     | 36 | 74  | 2 | 653.039...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,00                                          | 6,00     | 36 | 74  | 2 | 653.040...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,10                                          | 6,00     | 36 | 74  | 2 | 653.041...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,20                                          | 6,00     | 36 | 74  | 2 | 653.042...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,30                                          | 6,00     | 36 | 74  | 2 | 653.043...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,50                                          | 6,00     | 36 | 74  | 2 | 653.045...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,60                                          | 6,00     | 36 | 74  | 2 | 653.046...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,65                                          | 6,00     | 36 | 74  | 2 | 653.465...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,70                                          | 6,00     | 36 | 74  | 2 | 653.047...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,80                                          | 6,00     | 44 | 82  | 2 | 653.048...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 4,90                                          | 6,00     | 44 | 82  | 2 | 653.049...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,00                                          | 6,00     | 44 | 82  | 2 | 653.050...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,10                                          | 6,00     | 44 | 82  | 2 | 653.051...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,20                                          | 6,00     | 44 | 82  | 2 | 653.052...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,40                                          | 6,00     | 44 | 82  | 2 | 653.054...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,50                                          | 6,00     | 44 | 82  | 2 | 653.055...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,55                                          | 6,00     | 44 | 82  | 2 | 653.555...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,60                                          | 6,00     | 44 | 82  | 2 | 653.056...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,70                                          | 6,00     | 44 | 82  | 2 | 653.057...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,80                                          | 6,00     | 44 | 82  | 2 | 653.058...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 5,90                                          | 6,00     | 44 | 82  | 2 | 653.059...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 6,00                                          | 6,00     | 44 | 82  | 2 | 653.060...                                                   | .00 | .10 | 63,54                                                            | 64,96                                                            |
| 6,10                                          | 8,00     | 53 | 91  | 2 | 653.061...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,20                                          | 8,00     | 53 | 91  | 2 | 653.062...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,30                                          | 8,00     | 53 | 91  | 2 | 653.063...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,40                                          | 8,00     | 53 | 91  | 2 | 653.064...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,50                                          | 8,00     | 53 | 91  | 2 | 653.065...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,60                                          | 8,00     | 53 | 91  | 2 | 653.066...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,70                                          | 8,00     | 53 | 91  | 2 | 653.067...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,80                                          | 8,00     | 53 | 91  | 2 | 653.068...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 6,90                                          | 8,00     | 53 | 91  | 2 | 653.069...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,00                                          | 8,00     | 53 | 91  | 2 | 653.070...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,30                                          | 8,00     | 53 | 91  | 2 | 653.073...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,40                                          | 8,00     | 53 | 91  | 2 | 653.074...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,50                                          | 8,00     | 53 | 91  | 2 | 653.075...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,70                                          | 8,00     | 53 | 91  | 2 | 653.077...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,80                                          | 8,00     | 53 | 91  | 2 | 653.078...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 7,90                                          | 8,00     | 53 | 91  | 2 | 653.079...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 8,00                                          | 8,00     | 53 | 91  | 2 | 653.080...                                                   | .00 | .10 | 85,02                                                            | 86,70                                                            |
| 8,20                                          | 10,00    | 61 | 103 | 2 | 653.082...                                                   | .00 | .10 | 115,20                                                           | 118,27                                                           |
| 8,40                                          | 10,00    | 61 | 103 | 2 | 653.084...                                                   | .00 | .10 | 115,20                                                           | 118,27                                                           |
| 8,50                                          | 10,00    | 61 | 103 | 2 | 653.085...                                                   | .00 | .10 | 115,20                                                           | 118,27                                                           |
| 8,60                                          | 10,00    | 61 | 103 | 2 | 653.086...                                                   | .00 | .10 | 115,20                                                           | 118,27                                                           |
| 8,70                                          | 10,00    | 61 | 103 | 2 | 653.087...                                                   | .00 | .10 | 115,20                                                           | 118,27                                                           |
| 8,80                                          | 10,00    | 61 | 103 | 2 | 653.088...                                                   | .00 | .10 | 115,20                                                           | 118,27                                                           |

**VHM-Spiralbohrer 5xD mit IK**

Solid carbide drill 5xD with IC

Foret carbure 5xD à trous d'huile

**653...**

| Werkzeugdaten<br>Tool data / Données d'outils                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   | Werkzeugempfehlung<br>Tool Recommendation / Conseils d'outil                      |                                                                                    |                                                                                     | Einsatz<br>Capabilities / Utilisation                                             |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |  |   |    |  |  |  |
| D1<br>m7                                                                          | D2<br>h6                                                                          | L2                                                                                | L1                                                                                | Z                                                                                 | Artikel-Nr.<br>Article-No.<br>Référence                                           |  |  | Preis TIALN HA in €<br>Price TIALN HA in €<br>Prix TIALN HA en €                  | Preis TIALN HB in €<br>Price TIALN HB in €<br>Prix TIALN HB en €                  |                                                                                   |
| 8,90                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.089...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,00                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.090...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,20                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.092...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,30                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.093...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,50                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.095...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,70                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.097...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,80                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.098...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 9,90                                                                              | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.099...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 10,00                                                                             | 10,00                                                                             | 61                                                                                | 103                                                                               | 2                                                                                 | 653.100...                                                                        | .00                                                                                | .10                                                                                 | 115,20                                                                            | 118,27                                                                            |                                                                                   |
| 10,10                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.101...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 10,20                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.102...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 10,30                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.103...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 10,50                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.105...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 10,80                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.108...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 11,00                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.110...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 11,20                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.112...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 11,30                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.113...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 11,50                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.115...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 11,80                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.118...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 12,00                                                                             | 12,00                                                                             | 71                                                                                | 118                                                                               | 2                                                                                 | 653.120...                                                                        | .00                                                                                | .10                                                                                 | 165,78                                                                            | 168,88                                                                            |                                                                                   |
| 12,20                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.122...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 12,50                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.125...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 12,80                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.128...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 13,00                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.130...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 13,50                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.135...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 13,80                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.138...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 14,00                                                                             | 14,00                                                                             | 77                                                                                | 124                                                                               | 2                                                                                 | 653.140...                                                                        | .00                                                                                | .10                                                                                 | 230,23                                                                            | 233,40                                                                            |                                                                                   |
| 14,20                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.142...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 14,50                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.145...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 14,80                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.148...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 15,00                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.150...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 15,10                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.151...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 15,20                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.152...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 15,50                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.155...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 15,80                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.158...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |
| 16,00                                                                             | 16,00                                                                             | 83                                                                                | 133                                                                               | 2                                                                                 | 653.160...                                                                        | .00                                                                                | .10                                                                                 | 290,93                                                                            | 295,34                                                                            |                                                                                   |



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