

### Spiralbohrer extra kurz

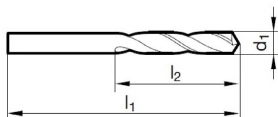


|              |      |      |
|--------------|------|------|
| Schneidstoff | HSCO |      |
| Oberfläche   | ○    | Ⓢ    |
| Schaftform   | zyl. | zyl. |

|          |   |                                                                                                                                                             |
|----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P</b> | • | Ausspitzung ≥ Ø 1,000 • Flächenanschliff • Co-legierter HSS-Stahl • geringe Vorschubkraft notwendig • geringes Drehmoment notwendig • universell einsetzbar |
| <b>M</b> | • |                                                                                                                                                             |
| <b>K</b> | • |                                                                                                                                                             |
| <b>N</b> | • | Stähle (legiert/unleg.) bis 800 N/mm² • Kalt-/Warmarbeitsstähle • Wälzlagerstähle • NE-Metalle                                                              |
| <b>S</b> | • | Gusswerkstoffe • rostfreie Stähle • Kunststoffe                                                                                                             |
| <b>H</b> |   |                                                                                                                                                             |

### GUHRINGNAVIGATOR

Schnittwerte siehe Seite 78



| Artikel-Nr.     |      |        |        | 5524      | 5520 |
|-----------------|------|--------|--------|-----------|------|
| Rabattgruppe    |      |        |        | 159       | 159  |
| Schneidrichtung |      |        |        | Ⓡ         | Ⓡ    |
| d1              |      | l1     | l2     | EUR/Stück |      |
| mm              | inch | mm     | mm     |           |      |
| 1,000           |      | 26,000 | 6,000  |           |      |
| 1,100           |      | 28,000 | 7,000  |           |      |
| 1,200           |      | 30,000 | 8,000  |           |      |
| 1,300           |      | 30,000 | 8,000  |           |      |
| 1,400           |      | 32,000 | 9,000  |           |      |
| 1,500           |      | 32,000 | 9,000  |           |      |
| 1,600           |      | 34,000 | 10,000 |           |      |
| 1,700           |      | 34,000 | 10,000 |           |      |
| 1,800           |      | 36,000 | 11,000 |           |      |
| 1,900           |      | 36,000 | 11,000 |           |      |
| 2,000           |      | 38,000 | 12,000 |           |      |
| 2,100           |      | 38,000 | 12,000 |           |      |
| 2,200           |      | 40,000 | 13,000 |           |      |
| 2,300           |      | 40,000 | 13,000 |           |      |
| 2,380           | 3/32 | 43,000 | 14,000 |           |      |
| 2,400           |      | 43,000 | 14,000 |           |      |
| 2,500           |      | 43,000 | 14,000 |           |      |
| 2,600           |      | 43,000 | 14,000 |           |      |
| 2,700           |      | 46,000 | 16,000 |           |      |
| 2,780           | 7/64 | 46,000 | 16,000 |           |      |
| 2,800           |      | 46,000 | 16,000 |           |      |
| 2,900           |      | 46,000 | 16,000 |           |      |
| 3,000           |      | 46,000 | 16,000 |           |      |
| 3,100           |      | 49,000 | 18,000 |           |      |
| 3,170           | 1/8  | 49,000 | 18,000 |           |      |
| 3,200           |      | 49,000 | 18,000 |           |      |
| 3,300           |      | 49,000 | 18,000 |           |      |
| 3,400           |      | 52,000 | 20,000 |           |      |
| 3,500           |      | 52,000 | 20,000 |           |      |
| 3,570           | 9/64 | 52,000 | 20,000 |           |      |
| 3,600           |      | 52,000 | 20,000 |           |      |
| 3,700           |      | 52,000 | 20,000 |           |      |
| 3,800           |      | 55,000 | 22,000 |           |      |
| 3,900           |      | 55,000 | 22,000 |           |      |
| 3,970           | 5/32 | 55,000 | 22,000 |           |      |
| 4,000           |      | 55,000 | 22,000 |           |      |

| Artikel-Nr.     |       |        |        | 5524                                                                                | 5520                                                                                |
|-----------------|-------|--------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Rabattgruppe    |       |        |        | 159                                                                                 | 159                                                                                 |
| Schneidrichtung |       |        |        |  |  |
| d1              |       | l1     | l2     | EUR/Stück                                                                           |                                                                                     |
| mm              | inch  | mm     | mm     |                                                                                     |                                                                                     |
| 4,100           |       | 55,000 | 22,000 |                                                                                     |                                                                                     |
| 4,200           |       | 55,000 | 22,000 |                                                                                     |                                                                                     |
| 4,300           |       | 58,000 | 24,000 |                                                                                     |                                                                                     |
| 4,370           | 11/64 | 58,000 | 24,000 |                                                                                     |                                                                                     |
| 4,400           |       | 58,000 | 24,000 |                                                                                     |                                                                                     |
| 4,500           |       | 58,000 | 24,000 |                                                                                     |                                                                                     |
| 4,600           |       | 58,000 | 24,000 |                                                                                     |                                                                                     |
| 4,700           |       | 58,000 | 24,000 |                                                                                     |                                                                                     |
| 4,760           | 3/16  | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 4,800           |       | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 4,900           |       | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 5,000           |       | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 5,100           |       | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 5,160           | 13/64 | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 5,200           |       | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 5,300           |       | 62,000 | 26,000 |                                                                                     |                                                                                     |
| 5,400           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,500           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,560           | 7/32  | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,600           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,700           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,800           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,900           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 5,950           | 15/64 | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 6,000           |       | 66,000 | 28,000 |                                                                                     |                                                                                     |
| 6,100           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,200           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,300           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,350           | 1/4   | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,400           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,500           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,600           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,700           |       | 70,000 | 31,000 |                                                                                     |                                                                                     |
| 6,800           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 6,900           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,000           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,100           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,140           | 9/32  | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,200           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,300           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,400           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,500           |       | 74,000 | 34,000 |                                                                                     |                                                                                     |
| 7,600           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 7,700           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 7,800           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 7,900           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 7,940           | 5/16  | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,000           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,100           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,200           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,300           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,400           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,500           |       | 79,000 | 37,000 |                                                                                     |                                                                                     |
| 8,600           |       | 84,000 | 40,000 |                                                                                     |                                                                                     |
| 8,700           |       | 84,000 | 40,000 |                                                                                     |                                                                                     |
| 8,730           | 11/32 | 84,000 | 40,000 |                                                                                     |                                                                                     |
| 8,800           |       | 84,000 | 40,000 |                                                                                     |                                                                                     |
| 8,900           |       | 84,000 | 40,000 |                                                                                     |                                                                                     |
| 9,000           |       | 84,000 | 40,000 |                                                                                     |                                                                                     |
| 9,100           |       | 84,000 | 40,000 |                                                                                     |                                                                                     |

| Artikel-Nr.     |      |         |        | 5524                                                                                | 5520                                                                                |
|-----------------|------|---------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Rabattgruppe    |      |         |        | 159                                                                                 | 159                                                                                 |
| Schneidrichtung |      |         |        |  |  |
| d1              |      | l1      | l2     | EUR/Stück                                                                           |                                                                                     |
| mm              | inch | mm      | mm     |                                                                                     |                                                                                     |
| 9,200           |      | 84,000  | 40,000 |                                                                                     |                                                                                     |
| 9,300           |      | 84,000  | 40,000 |                                                                                     |                                                                                     |
| 9,400           |      | 84,000  | 40,000 |                                                                                     |                                                                                     |
| 9,500           |      | 84,000  | 40,000 |                                                                                     |                                                                                     |
| 9,600           |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 9,700           |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 9,800           |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 9,900           |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 10,000          |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 10,100          |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 10,200          |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 10,300          |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 10,400          |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 10,500          |      | 89,000  | 43,000 |                                                                                     |                                                                                     |
| 11,000          |      | 95,000  | 47,000 |                                                                                     |                                                                                     |
| 11,110          | 7/16 | 95,000  | 47,000 |                                                                                     |                                                                                     |
| 11,500          |      | 95,000  | 47,000 |                                                                                     |                                                                                     |
| 12,000          |      | 102,000 | 51,000 |                                                                                     |                                                                                     |
| 12,500          |      | 102,000 | 51,000 |                                                                                     |                                                                                     |
| 13,000          |      | 102,000 | 51,000 |                                                                                     |                                                                                     |
| 13,500          |      | 107,000 | 54,000 |                                                                                     |                                                                                     |
| 14,000          |      | 107,000 | 54,000 |                                                                                     |                                                                                     |
|                 |      |         |        |                                                                                     |                                                                                     |

### Spiralbohrer extra kurz



Schneidstoff **HSS-E-PM**

Oberfläche **(S)**

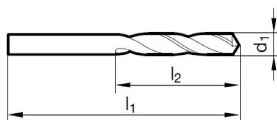
Schaftform zyl.

**P** • Ausspitzung  $\geq \varnothing 1,000$  • Kegelmantelanschliff • PM-Co-legierter HSS-Stahl • besonders hohe Stabilität • besonders hohe Verschleißfestigkeit

**M** ○  
**K** •  
**N** ○ hochlegierte Stähle • Vergütungs- und Einsatzstähle  
**S** ○ • Gusseisen, Messing, Bronzen  
**H** ○

### GÜHRINGNAVIGATOR

Schnittwerte siehe Seite 78



Artikel-Nr. **5521**

Rabattgruppe **159**

Schneidrichtung **(R)**

| d1    |      | l1     | l2     | EUR/Stück |
|-------|------|--------|--------|-----------|
| mm    | inch | mm     | mm     |           |
| 1,000 |      | 26,000 | 6,000  |           |
| 1,100 |      | 28,000 | 7,000  |           |
| 1,200 |      | 30,000 | 8,000  |           |
| 1,300 |      | 30,000 | 8,000  |           |
| 1,400 |      | 32,000 | 9,000  |           |
| 1,500 |      | 32,000 | 9,000  |           |
| 1,600 |      | 34,000 | 10,000 |           |
| 1,700 |      | 34,000 | 10,000 |           |
| 1,800 |      | 36,000 | 11,000 |           |
| 1,900 |      | 36,000 | 11,000 |           |
| 2,000 |      | 38,000 | 12,000 |           |
| 2,100 |      | 38,000 | 12,000 |           |
| 2,200 |      | 40,000 | 13,000 |           |
| 2,300 |      | 40,000 | 13,000 |           |
| 2,380 | 3/32 | 43,000 | 14,000 |           |
| 2,400 |      | 43,000 | 14,000 |           |
| 2,500 |      | 43,000 | 14,000 |           |
| 2,600 |      | 43,000 | 14,000 |           |
| 2,700 |      | 46,000 | 16,000 |           |
| 2,780 | 7/64 | 46,000 | 16,000 |           |
| 2,800 |      | 46,000 | 16,000 |           |
| 2,900 |      | 46,000 | 16,000 |           |
| 3,000 |      | 46,000 | 16,000 |           |
| 3,100 |      | 49,000 | 18,000 |           |
| 3,170 | 1/8  | 49,000 | 18,000 |           |
| 3,200 |      | 49,000 | 18,000 |           |
| 3,300 |      | 49,000 | 18,000 |           |
| 3,400 |      | 52,000 | 20,000 |           |
| 3,500 |      | 52,000 | 20,000 |           |
| 3,570 | 9/64 | 52,000 | 20,000 |           |
| 3,600 |      | 52,000 | 20,000 |           |
| 3,700 |      | 52,000 | 20,000 |           |
| 3,800 |      | 55,000 | 22,000 |           |
| 3,900 |      | 55,000 | 22,000 |           |
| 3,970 | 5/32 | 55,000 | 22,000 |           |
| 4,000 |      | 55,000 | 22,000 |           |



| Artikel-Nr.     |       |        |        | 5521                                                                                |
|-----------------|-------|--------|--------|-------------------------------------------------------------------------------------|
| Rabattgruppe    |       |        |        | 159                                                                                 |
| Schneidrichtung |       |        |        |  |
| d1              |       | l1     | l2     | EUR/Stück                                                                           |
| mm              | inch  | mm     | mm     |                                                                                     |
| 4,100           |       | 55,000 | 22,000 |                                                                                     |
| 4,200           |       | 55,000 | 22,000 |                                                                                     |
| 4,300           |       | 58,000 | 24,000 |                                                                                     |
| 4,370           | 11/64 | 58,000 | 24,000 |                                                                                     |
| 4,400           |       | 58,000 | 24,000 |                                                                                     |
| 4,500           |       | 58,000 | 24,000 |                                                                                     |
| 4,600           |       | 58,000 | 24,000 |                                                                                     |
| 4,700           |       | 58,000 | 24,000 |                                                                                     |
| 4,760           | 3/16  | 62,000 | 26,000 |                                                                                     |
| 4,800           |       | 62,000 | 26,000 |                                                                                     |
| 4,900           |       | 62,000 | 26,000 |                                                                                     |
| 5,000           |       | 62,000 | 26,000 |                                                                                     |
| 5,100           |       | 62,000 | 26,000 |                                                                                     |
| 5,160           | 13/64 | 62,000 | 26,000 |                                                                                     |
| 5,200           |       | 62,000 | 26,000 |                                                                                     |
| 5,300           |       | 62,000 | 26,000 |                                                                                     |
| 5,400           |       | 66,000 | 28,000 |                                                                                     |
| 5,500           |       | 66,000 | 28,000 |                                                                                     |
| 5,560           | 7/32  | 66,000 | 28,000 |                                                                                     |
| 5,600           |       | 66,000 | 28,000 |                                                                                     |
| 5,700           |       | 66,000 | 28,000 |                                                                                     |
| 5,800           |       | 66,000 | 28,000 |                                                                                     |
| 5,900           |       | 66,000 | 28,000 |                                                                                     |
| 5,950           | 15/64 | 66,000 | 28,000 |                                                                                     |
| 6,000           |       | 66,000 | 28,000 |                                                                                     |
| 6,100           |       | 70,000 | 31,000 |                                                                                     |
| 6,200           |       | 70,000 | 31,000 |                                                                                     |
| 6,300           |       | 70,000 | 31,000 |                                                                                     |
| 6,350           | 1/4   | 70,000 | 31,000 |                                                                                     |
| 6,400           |       | 70,000 | 31,000 |                                                                                     |
| 6,500           |       | 70,000 | 31,000 |                                                                                     |
| 6,600           |       | 70,000 | 31,000 |                                                                                     |
| 6,700           |       | 70,000 | 31,000 |                                                                                     |
| 6,800           |       | 74,000 | 34,000 |                                                                                     |
| 6,900           |       | 74,000 | 34,000 |                                                                                     |
| 7,000           |       | 74,000 | 34,000 |                                                                                     |
| 7,100           |       | 74,000 | 34,000 |                                                                                     |
| 7,140           | 9/32  | 74,000 | 34,000 |                                                                                     |
| 7,200           |       | 74,000 | 34,000 |                                                                                     |
| 7,300           |       | 74,000 | 34,000 |                                                                                     |
| 7,400           |       | 74,000 | 34,000 |                                                                                     |
| 7,500           |       | 74,000 | 34,000 |                                                                                     |
| 7,600           |       | 79,000 | 37,000 |                                                                                     |
| 7,700           |       | 79,000 | 37,000 |                                                                                     |
| 7,800           |       | 79,000 | 37,000 |                                                                                     |
| 7,900           |       | 79,000 | 37,000 |                                                                                     |
| 7,940           | 5/16  | 79,000 | 37,000 |                                                                                     |
| 8,000           |       | 79,000 | 37,000 |                                                                                     |
| 8,100           |       | 79,000 | 37,000 |                                                                                     |
| 8,200           |       | 79,000 | 37,000 |                                                                                     |
| 8,300           |       | 79,000 | 37,000 |                                                                                     |
| 8,400           |       | 79,000 | 37,000 |                                                                                     |
| 8,500           |       | 79,000 | 37,000 |                                                                                     |
| 8,730           | 11/32 | 84,000 | 40,000 |                                                                                     |
| 8,800           |       | 84,000 | 40,000 |                                                                                     |
| 9,000           |       | 84,000 | 40,000 |                                                                                     |
| 9,300           |       | 84,000 | 40,000 |                                                                                     |
| 9,500           |       | 84,000 | 40,000 |                                                                                     |
| 9,800           |       | 89,000 | 43,000 |                                                                                     |
| 10,000          |       | 89,000 | 43,000 |                                                                                     |

| Artikel-Nr.     |      |         |        | <b>5521</b>                                                                         |
|-----------------|------|---------|--------|-------------------------------------------------------------------------------------|
| Rabattgruppe    |      |         |        | <b>159</b>                                                                          |
| Schneidrichtung |      |         |        |  |
| d1              |      | l1      | l2     | EUR/Stück                                                                           |
| mm              | inch | mm      | mm     |                                                                                     |
| 10,200          |      | 89,000  | 43,000 |                                                                                     |
| 10,500          |      | 89,000  | 43,000 |                                                                                     |
| 11,000          |      | 95,000  | 47,000 |                                                                                     |
| 11,110          | 7/16 | 95,000  | 47,000 |                                                                                     |
| 11,500          |      | 95,000  | 47,000 |                                                                                     |
| 12,000          |      | 102,000 | 51,000 |                                                                                     |
| 12,500          |      | 102,000 | 51,000 |                                                                                     |
| 13,000          |      | 102,000 | 51,000 |                                                                                     |
| 13,500          |      | 107,000 | 54,000 |                                                                                     |
| 14,000          |      | 107,000 | 54,000 |                                                                                     |