

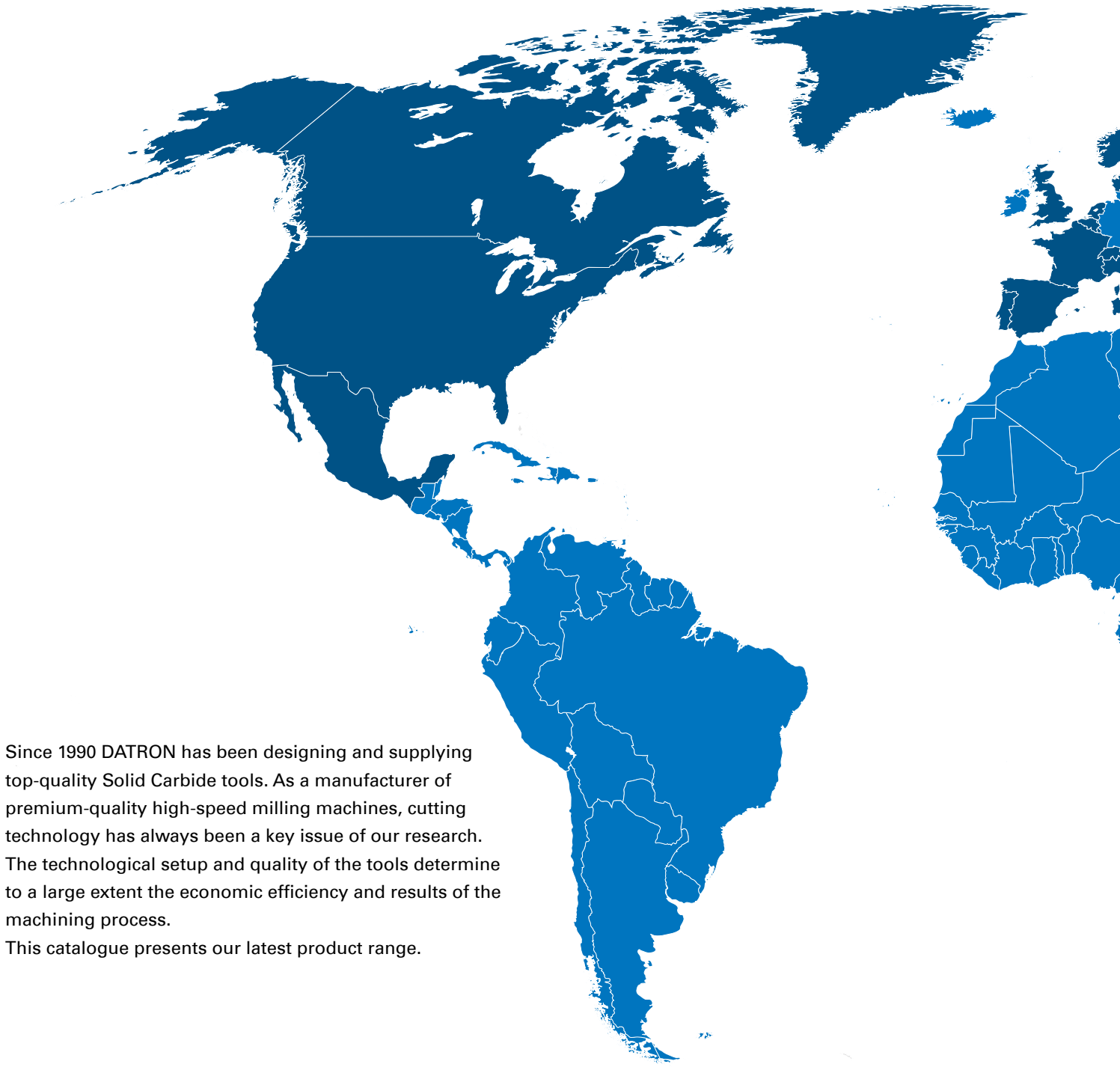
# DATRON HIGH-SPEED MILLING TOOLS

Precision. Power. In Aluminium and More...



DATRON

## CNC Milling Tools

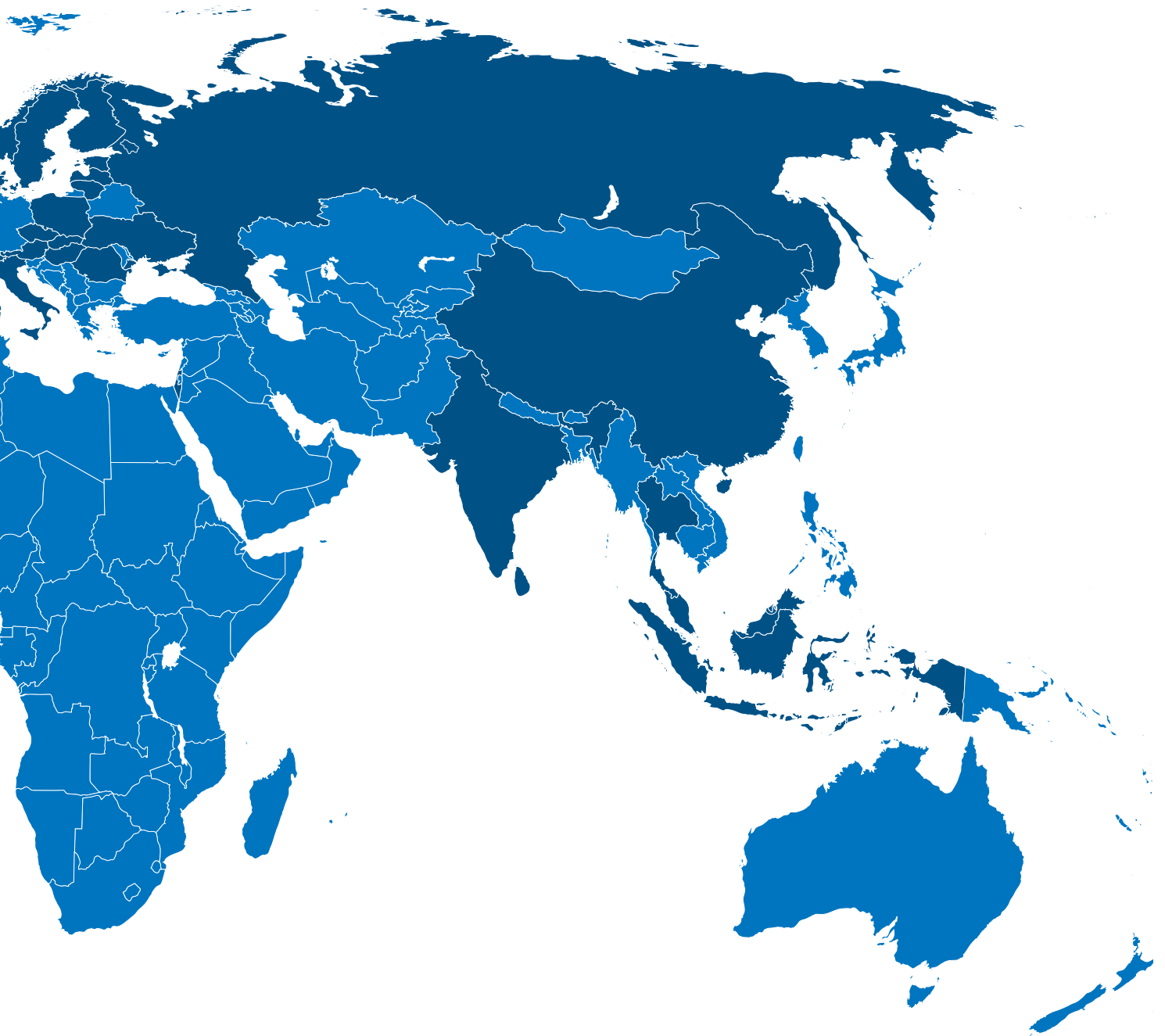


Since 1990 DATRON has been designing and supplying top-quality Solid Carbide tools. As a manufacturer of premium-quality high-speed milling machines, cutting technology has always been a key issue of our research. The technological setup and quality of the tools determine to a large extent the economic efficiency and results of the machining process.

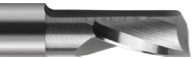







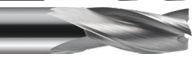
























This catalogue presents our latest product range.

### **DATRON has a Worldwide Presence!**

To offer you fast delivery, we distribute our milling tools all over the world in cooperation with representatives.





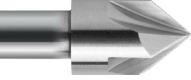














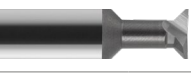


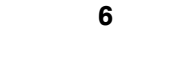


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|-----------------------------------------------------------------------------------|-----------|--------|--------|-------|-------|---------|------|----------|
|                                                                                   | Aluminium | Copper | Bronze | Brass | Steel | Plastic | Wood | PU Foams |
| <b>END MILLS</b>                                                                  |           |        |        |       |       |         |      |          |
|    | ++        | +      | +      | +     |       | ++      | ++   |          |
|    | ++        | +      | +      | +     |       | ++      | ++   |          |
|    | ++        | +      | +      | +     |       | ++      | ++   |          |
|    | ++        | +      | +      | +     |       | ++      | ++   |          |
|    | +         |        | ++     | +     |       |         | +    |          |
|    |           |        |        |       |       | ++      |      |          |
|    | ++        |        | +      | +     |       | ++      | ++   |          |
|    | ++        | +      | +      | +     |       | ++      | ++   |          |
|  | ++        | ++     | +      | ++    |       | ++      | +    |          |
|  | ++        | ++     | +      | ++    |       | ++      | +    |          |
|  | ++        |        |        | ++    |       | ++      | +    |          |
|  | +         | +      |        | +     |       | ++      | +    |          |
|  | ++        |        |        | ++    |       | +       | +    |          |
|  | ++        | ++     | +      | ++    |       | ++      | ++   |          |
|  |           |        |        |       | ++    |         |      |          |
|  |           | ++     |        |       |       |         |      |          |
|  |           | ++     |        |       |       |         |      |          |
|  | +         | +      |        | +     |       |         | ++   |          |
|  |           |        |        |       |       |         |      | ++       |
|  |           |        |        |       | ++    |         |      |          |
|  |           |        |        |       | ++    |         |      |          |
|  |           |        |        |       |       |         |      |          |
|  |           |        |        |       |       |         |      |          |
|  |           |        |        |       |       |         |      |          |
| <b>FACE MILLING TOOLS</b>                                                         |           |        |        |       |       |         |      |          |
|  | ++        | +      |        | ++    |       | +       | +    |          |
|  | ++        | +      |        | ++    |       | +       | +    |          |
|  | ++        | +      |        | ++    |       | +       | +    |          |
|  |           |        |        |       |       | ++      |      |          |
|  | ++        | ++     | +      | ++    | ++    | ++      | +    |          |
| <b>BALL NOSE MILLS</b>                                                            |           |        |        |       |       |         |      |          |
|  | ++        |        | +      | +     |       | ++      | ++   |          |
|  |           |        |        |       |       | ++      |      |          |
|  | ++        | ++     | ++     | ++    |       | ++      | ++   |          |
|  | ++        | ++     | ++     | ++    |       | ++      | ++   |          |
|  |           |        |        |       | ++    |         |      |          |
|  |           |        |        |       | ++    |         |      |          |

| GEOMETRY |               |                  |             |             |             |              |             |             |             |             |       |    |      |
|----------|---------------|------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------|----|------|
| GRP/CRP  | Acrylic Glass | Number of Flutes | D1 (mm)     | D2 (mm)     | D3 (mm)     | L1 (mm)      | L2 (mm)     | L3 (mm)     | R (mm)      | Thread Size | A (°) | CT | Page |
|          |               | 1                | 3.0 - 12.0  | 6.0 - 12.0  | 2.8 - 11.0  | 40.0 - 95.0  | 5.0 - 36.0  | 13.0 - 61.0 | -           | -           | -     | -  | 12   |
|          |               | 1                | 5.0 - 12.0  | 6.0 - 12.0  | 4.8 - 11.0  | 50.0 - 85.0  | 8.5 - 32.5  | 13.5 - 52.0 | -           | -           | -     | -  | 14   |
|          |               | 1                | 0.3 - 10.0  | 3.0 - 10.0  | -           | 38.0 - 100.0 | 1.0 - 40.0  | -           | -           | -           | -     | -  | 16   |
|          |               | 1                | 1.0 - 6.0   | 6.0         | 0.9 - 5.3   | 50.0 - 60.0  | 4.0 - 14.0  | 7.0 - 30.0  | -           | -           | -     | -  | 18   |
| +        |               | 1                | 2.0 - 6.0   | 6.0         | -           | 50.0 - 58.0  | 5.0 - 22.0  | -           | -           | -           | -     | x  | 19   |
|          | +             | +                | 1           | 1.0 - 10.0  | 6.0 - 10.0  | -            | 50.0 - 75.0 | 4.0 - 32.0  | -           | -           | -     | -  | 20   |
|          |               | 1                | 1.5 - 6.0   | 6.0         | -           | 50.0 - 60.0  | 7.0 - 20.0  | -           | -           | -           | -     | -  | 21   |
|          |               | 1                | 6.0 - 12.0  | 6.0 - 12.0  | -           | 58.0 - 90.0  | 21.0 - 51.0 | -           | -           | -           | -     | -  | 22   |
|          |               | 2                | 0.1 - 12.0  | 3.0 - 12.0  | 5.7 - 11.7  | 38.0 - 100.0 | 0.2 - 40.0  | 22.0 - 35.0 | -           | -           | -     | -  | 24   |
|          |               | 2                | 0.5 - 6.0   | 3.0 - 6.0   | 0.45 - 5.7  | 38.0 - 60.0  | 0.75 - 20.0 | 4.0 - 33.0  | -           | -           | -     | -  | 26   |
|          |               | 2                | 3.0 - 12.0  | 6.0 - 12.0  | -           | 57.0 - 70.0  | 8.0 - 25.0  | -           | -           | -           | -     | -  | 27   |
|          |               | 2                | 1.5 - 6.0   | 3.0 - 6.0   | -           | 40.0 - 58.0  | 4.0 - 12.0  | -           | -           | -           | -     | -  | 28   |
|          |               | 2                | 6.0 - 10.0  | 6.0 - 10.0  | -           | 50.0 - 70.0  | 12.0 - 32.0 | -           | -           | -           | -     | -  | 29   |
|          |               | 2                | 6.0 - 12.0  | 6.0 - 12.0  | 5.6 - 11.2  | 60.0 - 80.0  | 14.0 - 32.0 | 32.0 - 48.0 | -           | -           | -     | -  | 30   |
|          |               | 2                | 0.9 - 3.0   | 3.0         | -           | 38.0         | 1.1 - 7.0   | -           | -           | -           | -     | -  | 31   |
|          |               | 3                | 3.0 - 10.0  | 6.0 - 10.0  | -           | 50.0 - 60.0  | 6.0 - 22.0  | -           | -           | -           | -     | -  | 32   |
|          |               | 3                | 1.0 - 8.0   | 6.0 - 8.0   | -           | 50.0         | 2.2 - 16.0  | -           | -           | -           | -     | -  | 33   |
|          |               | 3                | 3.0 - 12.0  | 6.0 - 12.0  | 2.8 - 11.8  | 58.0 - 83.0  | 8.0 - 26.0  | 12.0 - 38.0 | -           | -           | -     | -  | 34   |
|          |               | 3                | 3.0 - 10.0  | 6.0 - 10.0  | 2.7 - 9.5   | 50.0 - 115.0 | 6.0 - 52.0  | 22.0 - 82.0 | -           | -           | -     | -  | 35   |
|          |               | 3                | 1.75 - 6.0  | 3.0 - 6.0   | -           | 40.0 - 50.0  | 3.0 - 10.0  | -           | -           | -           | -     | x  | 36   |
|          |               | 4                | 2.0 - 12.0  | 6.0 - 12.0  | -           | 50.0 - 100.0 | 7.0 - 45.0  | -           | -           | -           | -     | x  | 37   |
|          | +             | +                | 8           | 0.6 - 3.0   | 3.0 - 3.175 | -            | 38.0        | 3.0 - 12.0  | -           | -           | -     | -  | 38   |
|          | +             | +                | 8           | 0.6 - 6.0   | 3.0 - 6.0   | -            | 38.0 - 50.0 | 3.0 - 22.0  | -           | -           | -     | x  | 39   |
|          | +             | +                | 1-2         | 3.0 - 10.0  | 6.0 - 10.0  | 2.8 - 9.2    | 50.0 - 60.0 | 5.0 - 12.0  | 6.0 - 17.0  | -           | -     | x  | 40   |
|          |               | 1                | 14.0 - 24.0 | 8.0 - 12.0  | -           | 45.0 - 60.0  | 5.0 - 8.5   | -           | -           | -           | -     | -  | 42   |
|          |               | 2                | 8.0 - 20.0  | 6.0 - 12.0  | -           | 50.0 - 82.0  | 6.0 - 10.0  | -           | -           | -           | -     | -  | 43   |
|          |               | 2                | 12.0 - 20.0 | 6.0 - 8.0   | -           | 50.0         | 6.0 - 8.0   | -           | 0.5         | -           | -     | -  | 44   |
|          | +             | +                | 2           | 10.0 - 16.0 | 6.0 - 8.0   | -            | 50.0        | 6.0         | -           | 1.0         | -     | -  | 45   |
|          |               | 2                | 20.0 - 24.0 | -           | 18.5 - 22.5 | -            | 10.0        | 38.0 - 63.0 | 0.8         | -           | -     | -  | 46   |
|          |               | 1                | 1.0 - 10.0  | 3.0 - 10.0  | -           | 40.0 - 60.0  | 4.0 - 20.0  | -           | 0.5 - 5.0   | -           | -     | -  | 48   |
|          | +             | +                | 1           | 1.0 - 6.0   | 6.0         | 0.9 - 5.8    | 50.0        | 4.0 - 14.0  | 12.0 - 22.0 | 0.5 - 2.5   | -     | -  | 49   |
|          |               | 2                | 0.3 - 8.0   | 3.0 - 8.0   | -           | 39.0 - 50.0  | 0.5 - 12.0  | -           | 0.15 - 4.0  | -           | -     | -  | 50   |
|          |               | 2                | 0.4 - 12.0  | 3.0 - 12.0  | 0.35 - 11.7 | 39.0 - 100.0 | 0.6 - 20.0  | 2.0 - 40.0  | 0.2 - 6.0   | -           | -     | -  | 51   |
|          |               | 2                | 0.4 - 3.0   | 3.0         | -           | 38.0 - 39.0  | 1.2 - 6.0   | -           | 0.2 - 1.25  | -           | -     | -  | 52   |
|          |               | 4                | 2.0 - 12.0  | 6.0 - 12.0  | -           | 57.0 - 100.0 | 6.0 - 45.0  | -           | 1.0 - 6.0   | -           | -     | -  | 53   |

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| TOOLS                                                                                       | MATERIAL  |        |        |       |       |         |      |          |
|---------------------------------------------------------------------------------------------|-----------|--------|--------|-------|-------|---------|------|----------|
|                                                                                             | Aluminium | Copper | Bronze | Brass | Steel | Plastic | Wood | PU Foams |
| <b>TORIC END MILLS</b>                                                                      |           |        |        |       |       |         |      |          |
|              | ++        | +      |        | ++    |       | +       | +    |          |
|              | ++        | +      |        | ++    |       | +       | +    |          |
|              |           |        |        |       | ++    |         |      |          |
|              |           |        |        |       | ++    |         |      |          |
| <b>COUNTERSINK TOOLS</b>                                                                    |           |        |        |       |       |         |      |          |
|              | ++        |        | +      | +     |       | ++      | ++   |          |
|              |           |        |        |       |       | ++      |      |          |
|              |           |        |        |       |       |         |      | ++       |
|              | ++        |        | +      | +     |       | ++      | ++   |          |
|              | ++        |        | +      | +     |       | ++      | ++   |          |
| <b>DRILLS</b>                                                                               |           |        |        |       |       |         |      |          |
|             | ++        | ++     | ++     | ++    | +     | ++      | +    |          |
|  | ++        | ++     | ++     | ++    | +     | ++      | +    |          |
|            | ++        | ++     | ++     | ++    |       | ++      | +    |          |
| <b>REAMERS</b>                                                                              |           |        |        |       |       |         |      |          |
|            | ++        | +      | +      | +     |       |         |      |          |
| <b>THREAD MILLS</b>                                                                         |           |        |        |       |       |         |      |          |
|            | ++        | ++     | ++     | ++    |       | ++      | +    |          |
|            | ++        | ++     | ++     | ++    | +     | ++      | +    |          |
|            | ++        | +      |        | ++    |       | ++      | +    |          |
|            | ++        |        |        | ++    |       | ++      |      |          |
| <b>EXTERNAL RADIUS END MILL</b>                                                             |           |        |        |       |       |         |      |          |
|            | ++        |        | +      | +     |       | ++      | ++   |          |
|            |           |        |        |       |       | ++      |      |          |
|            |           |        |        |       | ++    |         |      |          |
| <b>STANDARD ENGRAVING TOOLS</b>                                                             |           |        |        |       |       |         |      |          |
|            | ++        | ++     | ++     | ++    |       | ++      | +    |          |
|            | ++        | ++     | ++     | ++    |       | ++      | +    |          |
|            |           |        |        |       | ++    |         |      |          |
|            |           |        | +      |       | ++    |         |      |          |
| <b>T-SLOTTING MILLS</b>                                                                     |           |        |        |       |       |         |      |          |
|            | ++        |        | +      | +     |       | ++      | ++   |          |
| <b>DOVETAIL MILLING TOOLS</b>                                                               |           |        |        |       |       |         |      |          |
|            | ++        |        | +      | +     |       | ++      | ++   |          |

|                                                  |     |
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| GRP/CRP | Acrylic Glass | GEOMETRY         |            |            |             |              |             |             |           |                                               |           | CT | Page |
|---------|---------------|------------------|------------|------------|-------------|--------------|-------------|-------------|-----------|-----------------------------------------------|-----------|----|------|
|         |               | Number of Flutes | D1 (mm)    | D2 (mm)    | D3 (mm)     | L1 (mm)      | L2 (mm)     | L3 (mm)     | R (mm)    | Thread-Size                                   | A (°)     |    |      |
|         |               | 2                | 6.0 - 8.0  | 6.0 - 8.0  | 5.8 - 7.8   | 50.0 - 60.0  | 6.0 - 12.0  | 21.0 - 23.0 | 0.2 - 1.0 | -                                             | -         | -  | 56   |
|         |               | 2                | 3.0 - 10.0 | 3.0 - 10.0 | 2.7 - 9.2   | 50.0 - 72.0  | 4.0 - 11.0  | 14.0 - 32.0 | 0.3 - 1.0 | -                                             | -         | x  | 57   |
|         |               | 4                | 2.0 - 10.0 | 6.0 - 10.0 | 1.8 - 9.2   | 50.0 - 72.0  | 4.0 - 11.0  | 12.0 - 32.0 | 0.2 - 1.0 | -                                             | -         | x  | 58   |
|         |               | 4                | 3.0 - 6.0  | 6.0        | -           | 50.0         | 1.0         | -           | 0.8       | -                                             | -         | x  | 59   |
|         |               | 2 - 4            | 3.0 - 14.0 | 3.0 - 10.0 | -           | 40.0 - 50.0  | 1.1 - 8.2   | -           | -         | -                                             | 40 - 140  | -  | 62   |
|         | +             | 3/6              | 0.1 - 4.0  | 6.0        | 6.0 - 16.0  | 50.0         | 3.0 - 6.0   | -           | -         | -                                             | 90        | -  | 63   |
|         |               | 3                | 4.0        | 6.0        | 10.0 - 16.0 | 50.0         | 3.0 - 6.0   | -           | -         | -                                             | 90        | -  | 64   |
|         |               | 1                | 2.0 - 5.0  | 6.0        | -           | 50.0         | 1.0 - 5.0   | -           | -         | -                                             | 90        | -  | 65   |
|         |               | 2                | 5.0 - 8.0  | 6.0 - 10.0 | -           | 50.0 - 70.0  | 10.0 - 16.0 | -           | -         | -                                             | 60 - 120  | -  | 66   |
|         |               | 2                | 0.15 - 6.5 | 3.0        | -           | 38.0         | 2.0 - 12.0  | -           | -         | -                                             | 130       | -  | 68   |
|         |               | 2                | 0.15 - 6.5 | 3.175      | -           | 38.0         | 1.0 - 12.0  | -           | -         | -                                             | 130 - 165 | -  | 70   |
|         |               | 2                | 3.0 - 6.0  | 6.0        | -           | 50.0 - 60.0  | 21.0 - 31.0 | -           | -         | -                                             | 130       | -  | 72   |
|         |               | 3                | 3.0 - 12.0 | 6.0 - 12.0 | 2.5 - 10.0  | 50.0 - 105.0 | 6.0 - 36.0  | 10.0 - 71.0 | -         | -                                             | -         | -  | 76   |
|         | +             | 2/4              | 0.72 - 8.4 | 3.0 - 10.0 | 0.32 - 6.35 | 40.0 - 66.0  | 0.13 - 0.69 | 3.0 - 26.0  | -         | M1 - M12<br>PG7 - PG48<br>Whitworth<br>< 1/2" | 60        | -  | 80   |
|         | +             | 4                | 0.8 - 8.0  | 3.0 - 6.0  | 0.49 - 3.0  | 40.0 - 60.0  | 0.09 - 1.55 | 3.0 - 30.0  | -         | M1 - M10<br>PG7 - PG48<br>Whitworth<br>< 1/2" | 55 - 80   | -  | 81   |
|         |               | 3                | 2.0 - 5.6  | 3.0 - 6.0  | 1.5 - 5.4   | 40.0 - 50.0  | 1.0 - 2.0   | 8.5 - 12.0  | -         | M2.5 - M16<br>PG7 - PG48                      | 60 - 80   | -  | 82   |
|         |               | k.A.             | 2.3 - 6.0  | 6.0 - 10.0 | -           | 50.0         | 8.0 - 16.0  | -           | -         | M3 - M8                                       | 60        | -  | 83   |
|         |               | 2/4              | 2.0 - 5.0  | 6.0        | 6.0 - 16.0  | 50.0         | 0.5 - 6.0   | -           | 0.5 - 6.0 | -                                             | -         | -  | 86   |
|         | +             | 3                | 4.0 - 5.0  | 6.0        | 6.0 - 10.0  | 50.0         | 1.0 - 3.0   | -           | 1.0 - 3.0 | -                                             | -         | -  | 87   |
|         |               | 2                | 0.8 - 2.4  | 3.0        | -           | 40.0         | 0.3         | -           | 0.3       | -                                             | -         | -  | 88   |
|         | +             | 1                | 0.05 - 6.0 | 4.0 - 6.0  | -           | 40.0 - 50.0  | -           | -           | -         | -                                             | 20 - 180  | -  | 90   |
|         | +             | 1                | 0.1        | 6.0        | -           | 50.0         | -           | -           | -         | -                                             | 30 - 90   | -  | 92   |
|         |               | 1                | 0.1 - 0.2  | 6.0        | -           | 50.0         | -           | -           | -         | -                                             | 20 - 90   | -  | 93   |
|         | +             | 1                | 0.1 - 0.2  | 4.0        | -           | 40.0         | -           | -           | -         | -                                             | 30 - 45   | -  | 94   |
|         |               | 2 - 6            | 3.0 - 15.0 | 3.0 - 6.0  | 1.6 - 6.0   | 40.0 - 50.0  | 0.8 - 4.5   | 6.0 - 25.0  | -         | -                                             | -         | -  | 90   |
|         |               | 2                | 3.0 - 6.0  | 3.0 - 6.0  | 2.0 - 5.0   | 39.0 - 50.0  | 0.29 - 6.0  | 6.0         | -         | -                                             | 5 - 60    | -  | 92   |

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DATRON

# Single Flute End Mills

When high cutting performance and surface quality are required for machining light metal or plastics, single flute end mills give you a clear advantage. Yet they often face user resentments. In a joint scientific research project, DATRON and the PTW (Institute of Production Management, Technology and Machine Tools) of the TU Darmstadt have been able to dispel those concerns.

The benefits of single flute end mills, especially those with the patented DATRON counter-balanced tip have become obvious.

### Single Flute End Mills are Best

When increased demands are made on machining quality, while also requiring high cutting volumes, the single flute end mill is superior to double flute tools, which our customers widely confirm. During the PTW testing, Aluminium parts milled with single and double flute solid carbide ball nose tools were examined under identical circumstances.

### Significantly Improved Roughness

The result: On the workpiece the single flute end mill created regular feed marks, a signal for stable machining. In contrast, uneven tool traces of a double flute end mill are proof of lower surface quality. Surface roughness values confirm this: After machining with the double flute end mill, the values for SR were 60% and for Rz 50% higher than those achieved with the single flute end mill.

### Optimal Chip Removal Increases Speed and Quality

The explanation for this is relatively simple: To combine the goals of achieving the greatest cutting volume in the shortest time possible during roughing, plus a high surface quality during finishing, several requirements have to be met. Chip formation and removal through the chip channel of the tool have to be designed optimally, taking into account both the material and the machining process. For this purpose, the geometrically conditioned single flute end mill offers clear advantages over multi flute tools when machining soft materials.

### Counter-Balanced Tip Allows Higher Speeds

The "icing on the cake," is provided by the DATRON patented counter-balanced tip. Compared to unbalanced single flute end mills, the vibration velocity at the machine's resonance peak can decrease by more than 50%. At higher speeds, the advantage of single flute end mills is around 50% (according to the test). Conversely, this means: The stable cutting speed range becomes significantly greater.

### Put it to the Test: A Single Flute – Many Advantages!














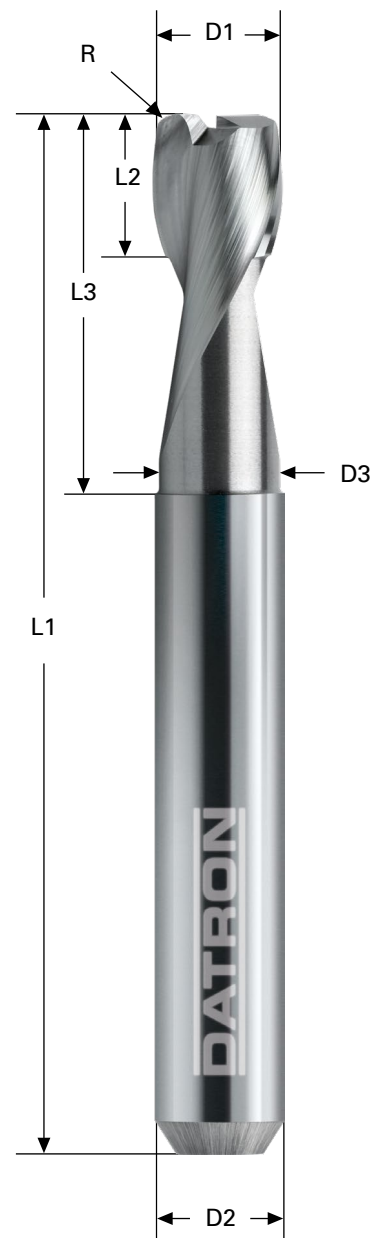
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# Table of Abbreviations

## Legend

|                                                                                  |                             |                                                                                   |                               |                                                                                     |                    |
|----------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|--------------------|
|  | <b>Machinable Materials</b> |  | <b>Flute with Edge Radius</b> |  | <b>Shank Form</b>  |
|  | <b>Number of Flutes</b>     |  | <b>Sharp-Edged Flute</b>      |  | <b>Point Angle</b> |
|  | <b>Solid Carbide</b>        |  | <b>Feed Direction</b>         |  | <b>Ball Nose</b>   |

|                            |                           |
|----------------------------|---------------------------|
| <b>D1</b>                  | <b>Flute Diameter</b>     |
| <b>D2</b>                  | <b>Shank Diameter</b>     |
| <b>D3</b>                  | <b>Toric Cut Diameter</b> |
| <b>L1</b>                  | <b>Total Length</b>       |
| <b>L2</b>                  | <b>Flute Length</b>       |
| <b>L3</b>                  | <b>Usable Length</b>      |
| <b><math>\alpha</math></b> | <b>Angle</b>              |
| <b>R</b>                   | <b>Radius</b>             |
| <b>BS</b>                  | <b>Coating</b>            |



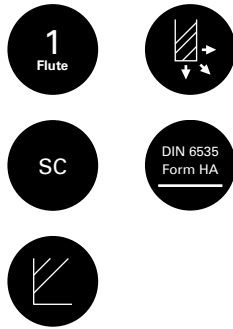
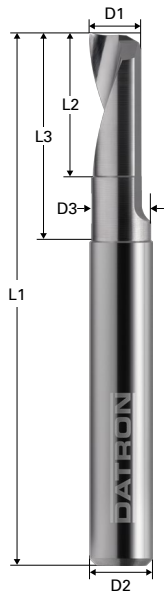
# End Mills

|                                                                  |    |                                                         |    |
|------------------------------------------------------------------|----|---------------------------------------------------------|----|
| Single Flute End Mill 4-IN-1                                     | 12 | Triple Flute End Mill,<br>Roughing Mill for Copper      | 32 |
| Single Flute End Mill Specially Balanced                         | 14 | Triple Flute End Mill,<br>Smoothing Mill for Copper     | 33 |
| Single Flute End                                                 | 16 | Triple Flute End Mill with Toric Cut                    | 34 |
| Single Flute End with Toric Cut                                  | 18 | Triple Flute End Mill<br>with Polished Flute for P Foam | 35 |
| Single Flute End with Coating<br>(ALCRONA)                       | 19 | Triple Flute End Mill with Coating<br>(X.CEED)          | 36 |
| Single Flute End with Polished<br>Cutting Edge for Acrylic Glass | 20 | Four Flute End Mill with Coating<br>(ALCRONA)           | 37 |
| Single Flute End Mill Left Hand Spiral,<br>Right Hand Cutting    | 21 | Micro-Toothed End Mill                                  | 38 |
| Cross Cutter                                                     | 22 | Micro-Toothed End Mill with Coating<br>(X.CEED/Diamond) | 39 |
| Double Flute End Mill                                            | 24 | Diamond Mill for CRP/GRP                                | 40 |
| Double Flute End Mill with Toric Cut                             | 26 |                                                         |    |
| Double Flute End Mill, Contour Milling                           | 27 |                                                         |    |
| Double Flute End Mill HSC+                                       | 28 |                                                         |    |
| Double Flute End Mill HSC Fire                                   | 29 |                                                         |    |
| Double Flute End Mill<br>with Internal Cooling                   | 30 |                                                         |    |
| Double Flute End Mill<br>for Steel Machining                     | 31 |                                                         |    |



DATRON

# Single Flute End Mill 4-IN-1



Aluminium



Plastic



Wood



Copper



Bronze



Brass



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068803A | 3.0     | 6.0     |         | 40.0    | 5.0     |         | 30,90       | 29,36              | 27,04                  | 24,72                |
| 0068803K | 3.0     | 6.0     |         | 45.0    | 9.0     |         | 31,90       | 30,31              | 27,91                  | 25,52                |
| 0068803E | 3.0     | 6.0     | 2.8     | 50.0    | 9.0     | 13.0    | 32,40       | 30,78              | 28,35                  | 25,92                |
| 0068803L | 3.0     | 6.0     | 2.8     | 50.0    | 9.0     | 16.0    | 32,90       | 31,26              | 28,79                  | 26,32                |
| 0068803X | 3.0     | 6.0     |         | 50.0    | 13.0    |         | 33,90       | 32,21              | 29,66                  | 27,12                |
| 0068804A | 4.0     | 6.0     |         | 40.0    | 5.0     |         | 31,90       | 30,31              | 27,91                  | 25,52                |
| 0068804K | 4.0     | 6.0     |         | 45.0    | 9.0     |         | 32,90       | 31,26              | 28,79                  | 26,32                |
| 0068804E | 4.0     | 6.0     | 3.7     | 50.0    | 9.0     | 16.0    | 33,40       | 31,73              | 29,23                  | 26,72                |
| 0068804L | 4.0     | 6.0     | 3.7     | 55.0    | 9.0     | 21.0    | 33,90       | 32,21              | 29,66                  | 27,12                |
| 0068804X | 4.0     | 6.0     |         | 55.0    | 16.0    |         | 34,90       | 33,16              | 30,54                  | 27,92                |
| 0068805A | 5.0     | 6.0     |         | 45.0    | 7.0     |         | 33,90       | 32,21              | 29,66                  | 27,12                |
| 0068805K | 5.0     | 6.0     |         | 50.0    | 11.0    |         | 34,90       | 33,16              | 30,54                  | 27,92                |
| 0068805E | 5.0     | 6.0     | 4.6     | 60.0    | 11.0    | 21.0    | 35,40       | 33,63              | 30,98                  | 28,32                |
| 0068805L | 5.0     | 6.0     | 4.6     | 60.0    | 11.0    | 26.0    | 35,90       | 34,11              | 31,41                  | 28,72                |
| 0068805X | 5.0     | 6.0     |         | 55.0    | 16.0    |         | 36,90       | 35,06              | 32,29                  | 29,52                |
| 0068806A | 6.0     | 6.0     |         | 45.0    | 7.0     |         | 35,90       | 34,11              | 31,41                  | 28,72                |
| 0068806K | 6.0     | 6.0     |         | 50.0    | 13.0    |         | 37,40       | 35,53              | 32,73                  | 29,92                |
| 0068806E | 6.0     | 6.0     | 5.5     | 60.0    | 13.0    | 26.0    | 38,90       | 36,96              | 34,04                  | 31,12                |
| 0068806L | 6.0     | 6.0     | 5.5     | 65.0    | 13.0    | 31.0    | 40,40       | 38,38              | 35,35                  | 32,32                |
| 0068806X | 6.0     | 6.0     |         | 55.0    | 21.0    |         | 41,90       | 39,81              | 36,66                  | 33,52                |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068808A | 8.0     | 8.0     |         | 45.0    | 9.0     |         | 40,90       | 38,86              | 35,79                  | 32,72                |
| 0068808K | 8.0     | 8.0     |         | 55.0    | 17.0    |         | 42,90       | 40,76              | 37,54                  | 34,32                |
| 0068808E | 8.0     | 8.0     | 7.4     | 65.0    | 17.0    | 31.0    | 44,90       | 42,66              | 39,29                  | 35,92                |
| 0068808L | 8.0     | 8.0     | 7.4     | 75.0    | 17.0    | 41.0    | 46,90       | 44,56              | 41,04                  | 37,52                |
| 0068808X | 8.0     | 8.0     |         | 65.0    | 26.0    |         | 48,90       | 46,46              | 42,79                  | 39,12                |

### 8 mm Shank

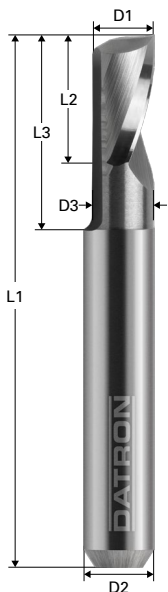
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068810A | 10.0    | 10.0    |         | 50.0    | 11.0    |         | 49,90       | 47,41              | 43,66                  | 39,92                |
| 0068810K | 10.0    | 10.0    |         | 60.0    | 21.0    |         | 52,40       | 49,78              | 45,85                  | 41,92                |
| 0068810E | 10.0    | 10.0    | 9.2     | 75.0    | 21.0    | 41.0    | 54,90       | 52,16              | 48,04                  | 43,92                |
| 0068810L | 10.0    | 10.0    | 9.2     | 85.0    | 21.0    | 51.0    | 57,40       | 54,53              | 50,23                  | 45,92                |
| 0068810X | 10.0    | 10.0    |         | 70.0    | 32.0    |         | 59,90       | 56,91              | 52,41                  | 47,92                |

### 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068812A | 12.0    | 12.0    |         | 55.0    | 14.0    |         | 69,90       | 66,41              | 61,16                  | 55,92                |
| 0068812K | 12.0    | 12.0    |         | 65.0    | 26.0    |         | 72,90       | 69,26              | 63,79                  | 58,32                |
| 0068812E | 12.0    | 12.0    | 11.0    | 85.0    | 26.0    | 51.0    | 75,90       | 72,11              | 66,41                  | 60,72                |
| 0068812L | 12.0    | 12.0    | 11.0    | 95.0    | 26.0    | 61.0    | 78,90       | 74,96              | 69,04                  | 63,12                |
| 0068812X | 12.0    | 12.0    |         | 75.0    | 36.0    |         | 81,90       | 77,81              | 71,66                  | 65,52                |

DATRON

# Single Flute End Mill Specially Balanced



Aluminium



Plastic



Wood



Copper



Bronze



Brass



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068085E | 5.0     | 6.0     | 4.8     | 50.0    | 8.75    | 13.5    | 31,92       | 30,32          | 27,93           | 25,54           |
| 0068086C | 6.0     | 6.0     |         | 50.0    | 8.0     |         | 32,08       | 30,48          | 28,07           | 25,66           |
| 0068086E | 6.0     | 6.0     | 5.5     | 50.0    | 10.5    | 16.5    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068086H | 6.0     | 6.0     |         | 50.0    | 14.0    |         | 33,43       | 31,76          | 29,25           | 26,74           |
| 0068086L | 6.0     | 6.0     | 5.5     | 50.0    | 16.0    | 23.5    | 34,23       | 32,52          | 29,95           | 27,38           |
| 0068086P | 6.0     | 6.0     |         | 60.0    | 20.0    |         | 36,78       | 34,94          | 32,18           | 29,42           |
| 0068086X | 6.0     | 6.0     | 5.5     | 55.0    | 21.0    | 27.0    | 39,69       | 37,71          | 34,73           | 31,75           |
| 0068086Y | 6.0     | 6.0     |         | 58.0    | 25.0    |         | 41,06       | 39,01          | 35,93           | 32,85           |
| 0068086Z | 6.0     | 6.0     |         | 65.0    | 30.0    |         | 43,42       | 41,25          | 37,99           | 34,74           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068085S | 5.0     | 8.0     | 4.8     | 50.0    | 8.75    | 13.5    | 40,74       | 38,70          | 35,65           | 32,59           |
| 0068086S | 6.0     | 8.0     | 5.5     | 50.0    | 10.5    | 16.5    | 41,79       | 39,70          | 36,57           | 33,43           |
| 0068087E | 7.0     | 8.0     |         | 60.0    | 14.0    |         | 37,28       | 35,42          | 32,62           | 29,82           |
| 0068088K | 8.0     | 8.0     | 7.4     | 50.0    | 8.0     | 12.5    | 36,33       | 34,51          | 31,79           | 29,06           |
| 0068088C | 8.0     | 8.0     |         | 60.0    | 14.0    |         | 36,78       | 34,94          | 32,18           | 29,42           |
| 0068088E | 8.0     | 8.0     | 7.4     | 60.0    | 14.0    | 26.0    | 37,59       | 35,71          | 32,89           | 30,07           |
| 0068080D | 8.0     | 8.0     | 7.4     | 70.0    | 14.0    | 43.0    | 41,16       | 39,10          | 36,02           | 32,93           |
| 0068088H | 8.0     | 8.0     |         | 60.0    | 20.0    |         | 39,43       | 37,46          | 34,50           | 31,54           |
| 0068088S | 8.0     | 8.0     | 7.4     | 60.0    | 21.0    | 31.0    | 40,85       | 38,81          | 35,74           | 32,68           |
| 0068088V | 8.0     | 8.0     |         | 60.0    | 25.0    |         | 41,72       | 39,63          | 36,51           | 33,38           |
| 0068088L | 8.0     | 8.0     | 7.4     | 60.0    | 26.0    | 34.0    | 43,05       | 40,90          | 37,67           | 34,44           |
| 0068088X | 8.0     | 8.0     | 7.4     | 70.0    | 31.0    | 42.0    | 47,36       | 44,99          | 41,44           | 37,89           |
| 0068088Z | 8.0     | 8.0     |         | 80.0    | 32.0    |         | 51,98       | 49,38          | 45,48           | 41,58           |

### 10 mm Shank

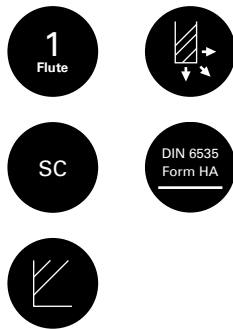
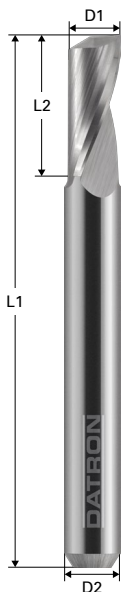
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068090K | 10.0    | 10.0    | 9.2     | 50.0    | 10.0    | 15.6    | 46,31       | 43,99              | 40,52                  | 37,05                |
| 0068090E | 10.0    | 10.0    | 9.2     | 60.0    | 17.5    | 27.5    | 47,36       | 44,99              | 41,44                  | 37,89                |
| 0068090S | 10.0    | 10.0    | 9.2     | 80.0    | 17.5    | 52.0    | 55,13       | 52,37              | 48,24                  | 44,10                |
| 0068090P | 10.0    | 10.0    |         | 60.0    | 20.0    |         | 48,52       | 46,09              | 42,46                  | 38,82                |
| 0068090L | 10.0    | 10.0    | 9.2     | 60.0    | 26.0    | 34.0    | 49,67       | 47,19              | 43,46                  | 39,74                |
| 0068090M | 10.0    | 10.0    | 9.2     | 85.0    | 26.0    | 34.0    | 66,36       | 63,04              | 58,07                  | 53,09                |
| 0068090X | 10.0    | 10.0    | 9.2     | 70.0    | 32.5    | 42.5    | 51,87       | 49,28              | 45,39                  | 41,50                |
| 0068090Y | 10.0    | 10.0    |         | 100.0   | 40.0    |         | 73,78       | 70,09              | 64,56                  | 59,02                |

### 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068092K | 12.0    | 12.0    | 11.0    | 60.0    | 12.0    | 19.0    | 78,96       | 75,01              | 69,09                  | 63,17                |
| 0068092E | 12.0    | 12.0    | 11.0    | 70.0    | 21.0    | 33.0    | 90,72       | 86,18              | 79,38                  | 72,58                |
| 0068092L | 12.0    | 12.0    | 11.0    | 70.0    | 31.5    | 42.0    | 95,97       | 91,17              | 83,97                  | 76,78                |

DATRON

# Single Flute End Mill



Aluminium

Wood



Plastic



Copper

Brass



Bronze



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068003E | 0.3     | 3.0     | 38.0    | 1.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068004E | 0.4     | 3.0     | 38.0    | 1.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068005E | 0.5     | 3.0     | 38.0    | 1.5     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068006E | 0.6     | 3.0     | 38.0    | 2.5     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068008E | 0.8     | 3.0     | 38.0    | 3.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068010E | 1.0     | 3.0     | 38.0    | 4.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068015E | 1.5     | 3.0     | 38.0    | 5.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068016E | 1.6     | 3.0     | 38.0    | 5.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068020G | 2.0     | 3.0     | 40.0    | 6.0     | 13,23       | 12,57          | 11,58           | 10,58           |
| 0068020E | 2.0     | 3.0     | 40.0    | 8.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068020L | 2.0     | 3.0     | 40.0    | 10.0    | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068020W | 2.0     | 3.0     | 65.0    | 15.0    | 31,40       | 29,83          | 27,48           | 25,12           |
| 0068024A | 2.4     | 3.0     | 40.0    | 5.5     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068024E | 2.4     | 3.0     | 40.0    | 8.0     | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068024L | 2.4     | 3.0     | 40.0    | 10.0    | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068030E | 3.0     | 3.0     | 40.0    | 10.0    | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068030Y | 3.0     | 3.0     | 65.0    | 10.0    | 26,67       | 25,34          | 23,34           | 21,34           |
| 0068030Z | 3.0     | 3.0     | 40.0    | 10.5    | 13,86       | 13,17          | 12,13           | 11,09           |
| 0068030W | 3.0     | 3.0     | 65.0    | 15.0    | 31,40       | 29,83          | 27,48           | 25,12           |

### 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068606E | 0.6     | 3.175   | 38.0    | 3.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068608E | 0.8     | 3.175   | 38.0    | 3.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068610E | 1.0     | 3.175   | 38.0    | 3.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068612E | 1.2     | 3.175   | 38.0    | 4.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068615E | 1.5     | 3.175   | 38.0    | 4.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068620G | 2.0     | 3.175   | 40.0    | 5.0     | 13,23       | 12,57          | 11,58           | 10,58           |
| 0068620E | 2.0     | 3.175   | 38.0    | 8.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068620F | 2.0     | 3.175   | 40.0    | 11.5    | 13,23       | 12,57          | 11,58           | 10,58           |
| 0068624E | 2.4     | 3.175   | 38.0    | 8.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068630E | 3.0     | 3.175   | 38.0    | 9.0     | 11,03       | 10,48          | 9,65            | 8,82            |
| 0068630F | 3.0     | 3.175   | 40.0    | 11.5    | 13,23       | 12,57          | 11,58           | 10,58           |



#### 4 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068415Y | 1.5     | 4.0     | 40.0    | 5.0     | 22,68       | 21,55          | 19,85           | 18,14           |
| 0068432Y | 2.0     | 4.0     | 40.0    | 8.0     | 22,68       | 21,55          | 19,85           | 18,14           |
| 0068430Y | 3.0     | 4.0     | 40.0    | 10.0    | 22,68       | 21,55          | 19,85           | 18,14           |
| 0068434Y | 4.0     | 4.0     | 40.0    | 10.0    | 22,68       | 21,55          | 19,85           | 18,14           |

#### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068410E | 1.0     | 6.0     | 50.0    | 4.0     | 25,94       | 24,64          | 22,70           | 20,75           |
| 0068415A | 1.5     | 6.0     | 50.0    | 3.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068415E | 1.5     | 6.0     | 50.0    | 7.0     | 25,94       | 24,64          | 22,70           | 20,75           |
| 0078415E | 1.5     | 6.0     | 58.0    | 7.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068432A | 2.0     | 6.0     | 50.0    | 5.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068432E | 2.0     | 6.0     | 50.0    | 7.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078420E | 2.0     | 6.0     | 58.0    | 7.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068432L | 2.0     | 6.0     | 50.0    | 11.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078424E | 2.4     | 6.0     | 50.0    | 8.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068425A | 2.5     | 6.0     | 50.0    | 5.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078425E | 2.5     | 6.0     | 58.0    | 8.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068430A | 3.0     | 6.0     | 50.0    | 5.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068430E | 3.0     | 6.0     | 50.0    | 8.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078430E | 3.0     | 6.0     | 58.0    | 8.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068430S | 3.0     | 6.0     | 50.0    | 10.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078430S | 3.0     | 6.0     | 58.0    | 10.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068430L | 3.0     | 6.0     | 50.0    | 12.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078435E | 3.5     | 6.0     | 58.0    | 10.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068434A | 4.0     | 6.0     | 50.0    | 5.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068434B | 4.0     | 6.0     | 50.0    | 7.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068434E | 4.0     | 6.0     | 50.0    | 10.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0078440E | 4.0     | 6.0     | 58.0    | 10.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068434L | 4.0     | 6.0     | 50.0    | 12.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068434Z | 4.0     | 6.0     | 45.0    | 14.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068434S | 4.0     | 6.0     | 60.0    | 14.0    | 26,46       | 25,14          | 23,15           | 21,17           |
| 0078440L | 4.0     | 6.0     | 58.0    | 18.0    | 26,46       | 25,14          | 23,15           | 21,17           |
| 0068434F | 4.0     | 6.0     | 58.0    | 20.0    | 26,46       | 25,14          | 23,15           | 21,17           |
| 0068435B | 5.0     | 6.0     | 50.0    | 8.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068435E | 5.0     | 6.0     | 50.0    | 12.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068435L | 5.0     | 6.0     | 58.0    | 22.0    | 26,46       | 25,14          | 23,15           | 21,17           |
| 0068460C | 6.0     | 6.0     | 50.0    | 8.0     | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068460E | 6.0     | 6.0     | 50.0    | 14.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068460L | 6.0     | 6.0     | 60.0    | 20.0    | 24,78       | 23,54          | 21,68           | 19,82           |
| 0068460A | 6.0     | 6.0     | 58.0    | 25.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068460B | 6.0     | 6.0     | 65.0    | 30.0    | 33,08       | 31,43          | 28,95           | 26,46           |

#### 8 mm Shank

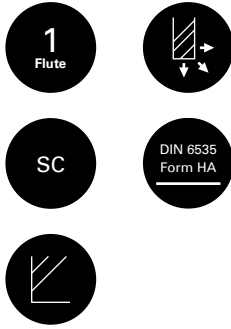
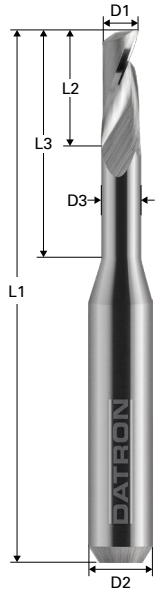
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068079E | 7.0     | 8.0     | 60.0    | 14.0    | 28,98       | 27,53          | 25,36           | 23,18           |
| 0068080E | 8.0     | 8.0     | 60.0    | 14.0    | 28,98       | 27,53          | 25,36           | 23,18           |
| 0068080L | 8.0     | 8.0     | 60.0    | 20.0    | 32,45       | 30,83          | 28,39           | 25,96           |
| 0068080A | 8.0     | 8.0     | 60.0    | 25.0    | 40,85       | 38,81          | 35,74           | 32,68           |
| 0068080B | 8.0     | 8.0     | 80.0    | 32.0    | 50,72       | 48,18          | 44,38           | 40,58           |

#### 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068470E | 10.0    | 10.0    | 60.0    | 20.0    | 35,28       | 33,52          | 30,87           | 28,22           |
| 0068470L | 10.0    | 10.0    | 100.0   | 40.0    | 67,41       | 64,04          | 58,98           | 53,93           |

DATRON

# Single Flute End Mill with Toric Cut



Aluminium



Plastic



Wood



Copper



Bronze



Brass

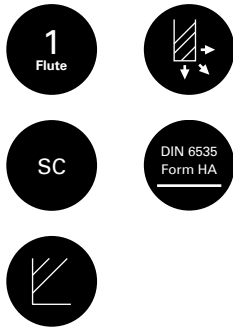
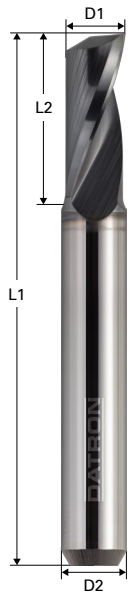


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00684910 | 1.0     | 6.0     | 0.9     | 50.0    | 4.0     | 7.0     | 36,12       | 34,31          | 31,61           | 28,90           |
| 00684915 | 1.5     | 6.0     | 1.4     | 50.0    | 7.0     | 11.0    | 36,12       | 34,31          | 31,61           | 28,90           |
| 0068492K | 2.0     | 6.0     | 1.8     | 50.0    | 4.0     | 12.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068492E | 2.0     | 6.0     | 1.8     | 50.0    | 7.0     | 14.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068493K | 3.0     | 6.0     | 2.7     | 50.0    | 4.0     | 14.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068493E | 3.0     | 6.0     | 2.7     | 50.0    | 8.0     | 14.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068493D | 3.0     | 6.0     | 2.7     | 50.0    | 4.0     | 17.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068493S | 3.0     | 6.0     | 2.7     | 50.0    | 8.0     | 17.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068493F | 3.0     | 6.0     | 2.7     | 50.0    | 4.0     | 21.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068493L | 3.0     | 6.0     | 2.7     | 50.0    | 8.0     | 21.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068494K | 4.0     | 6.0     | 3.6     | 50.0    | 5.0     | 18.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068494E | 4.0     | 6.0     | 3.6     | 50.0    | 10.0    | 18.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068494D | 4.0     | 6.0     | 3.6     | 50.0    | 5.0     | 21.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068494S | 4.0     | 6.0     | 3.6     | 50.0    | 10.0    | 21.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068495K | 5.0     | 6.0     | 4.4     | 60.0    | 5.0     | 22.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068495E | 5.0     | 6.0     | 4.4     | 50.0    | 12.0    | 22.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068496K | 6.0     | 6.0     | 5.3     | 60.0    | 5.0     | 24.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068496E | 6.0     | 6.0     | 5.3     | 50.0    | 14.0    | 24.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068496F | 6.0     | 6.0     | 5.3     | 60.0    | 5.0     | 30.0    | 29,82       | 28,33          | 26,09           | 23,86           |
| 0068496L | 6.0     | 6.0     | 5.3     | 60.0    | 14.0    | 30.0    | 29,82       | 28,33          | 26,09           | 23,86           |

DATRON

# Single Flute End Mill with Coating (ALCRONA)



Bronze



Aluminium



Wood



Brass



GFK/CFK

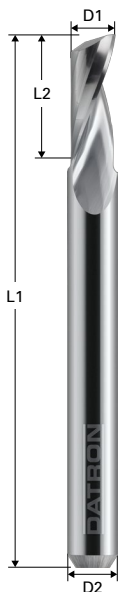


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068932A | 2.0     | 6.0     | 50.0    | 5.0     | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068932E | 2.0     | 6.0     | 50.0    | 7.0     | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068930E | 3.0     | 6.0     | 50.0    | 8.0     | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068930S | 3.0     | 6.0     | 50.0    | 10.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068930L | 3.0     | 6.0     | 50.0    | 12.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068934E | 4.0     | 6.0     | 50.0    | 10.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068934S | 4.0     | 6.0     | 50.0    | 14.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068934L | 4.0     | 6.0     | 58.0    | 20.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068935E | 5.0     | 6.0     | 50.0    | 12.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068935L | 5.0     | 6.0     | 58.0    | 22.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068960E | 6.0     | 6.0     | 50.0    | 14.0    | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068960L | 6.0     | 6.0     | 58.0    | 20.0    | 28,67       | 27,24          | 25,09           | 22,94           |

DATRON

# Single Flute End Mill with Polished Cutting Edge for Acrylic Glass



Acrylic Glass

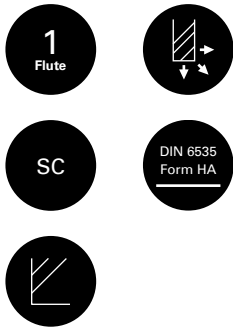
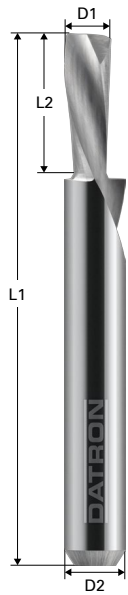


Plastic



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078310E | 1.0     | 6.0     | 50.0    | 4.0     | 33,08       | 31,43          | 28,95           | 26,46           |
| 0078320E | 2.0     | 6.0     | 50.0    | 7.0     | 33,08       | 31,43          | 28,95           | 26,46           |
| 0078320L | 2.0     | 6.0     | 50.0    | 11.0    | 35,18       | 33,42          | 30,78           | 28,14           |
| 0078330E | 3.0     | 6.0     | 50.0    | 8.0     | 33,08       | 31,43          | 28,95           | 26,46           |
| 0078330L | 3.0     | 6.0     | 50.0    | 12.0    | 35,18       | 33,42          | 30,78           | 28,14           |
| 0078334E | 4.0     | 6.0     | 50.0    | 10.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0078334L | 4.0     | 6.0     | 60.0    | 22.0    | 35,18       | 33,42          | 30,78           | 28,14           |
| 0078335E | 5.0     | 6.0     | 50.0    | 12.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0078335L | 5.0     | 6.0     | 60.0    | 22.0    | 35,18       | 33,42          | 30,78           | 28,14           |
| 0078360E | 6.0     | 6.0     | 50.0    | 14.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0078360L | 6.0     | 6.0     | 60.0    | 22.0    | 35,18       | 33,42          | 30,78           | 28,14           |
| 0078338E | 8.0     | 8.0     | 60.0    | 22.0    | 45,68       | 43,40          | 39,97           | 36,54           |
| 0078338L | 8.0     | 8.0     | 70.0    | 32.0    | 50,93       | 48,38          | 44,56           | 40,74           |
| 0078339E | 10.0    | 10.0    | 75.0    | 32.0    | 59,33       | 56,36          | 51,91           | 47,46           |

# Single Flute End Mill Left Hand Spiral, Right Hand Cutting



Aluminium

Wood



Plastic



Bronze



Brass

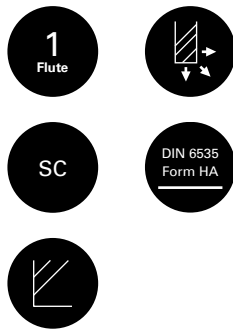
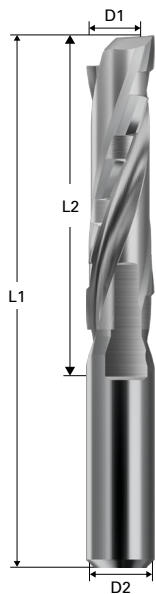


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) |        |                      |
|----------|---------|---------|---------|---------|-------------|----------------|--------|----------------------|
|          |         |         |         |         |             | -5%            | -12,5% | ≥ 25 Pieces (€) -20% |
| 0068471E | 1.5     | 6.0     | 50.0    | 7.0     | 28,14       | 26,73          | 24,62  | 22,51                |
| 0068472E | 2.0     | 6.0     | 50.0    | 7.0     | 28,14       | 26,73          | 24,62  | 22,51                |
| 0068473E | 3.0     | 6.0     | 50.0    | 8.0     | 28,14       | 26,73          | 24,62  | 22,51                |
| 0068474E | 4.0     | 6.0     | 50.0    | 10.0    | 28,14       | 26,73          | 24,62  | 22,51                |
| 0068475E | 5.0     | 6.0     | 50.0    | 12.0    | 28,14       | 26,73          | 24,62  | 22,51                |
| 0068476E | 6.0     | 6.0     | 50.0    | 14.0    | 28,14       | 26,73          | 24,62  | 22,51                |
| 0068476L | 6.0     | 6.0     | 60.0    | 20.0    | 28,14       | 26,73          | 24,62  | 22,51                |

DATRON

# Cross Cutter



Aluminium



Plastic



Wood



Copper



Bronze



Brass



## 6 mm Shank

| Art. No.  | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 00688006E | 6       | 6       | 58      | 21      | 57,38 €     | 54,52 €            | 50,21 €                | 45,91 €              |
| 00688006L | 6       | 6       | 68      | 26      | 61,98 €     | 58,89 €            | 54,24 €                | 49,59 €              |

## 8 mm Shank

| Art. No.  | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 00688008E | 8       | 8       | 68      | 26      | 68,89 €     | 65,44 €            | 60,27 €                | 55,11 €              |
| 00688008L | 8       | 8       | 70      | 31      | 75,79 €     | 72,00 €            | 66,31 €                | 60,63 €              |

## 8 mm Shank

| Art. No.  | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 00688010E | 10      | 10      | 72      | 31      | 82,69 €     | 78,55 €            | 72,35 €                | 66,15 €              |
| 00688010L | 10      | 10      | 80      | 41      | 91,89 €     | 87,29 €            | 80,40 €                | 73,51 €              |

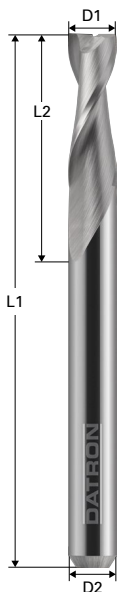
## 12 mm Shank

| Art. No.  | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 00688012E | 12      | 12      | 80      | 41      | 133,29 €    | 126,62 €           | 116,62 €               | 106,63 €             |
| 00688012L | 12      | 12      | 90      | 51      | 147,09 €    | 139,73 €           | 128,70 €               | 117,67 €             |



DATRON

# Double Flute End Mill



Aluminium

Brass

Bronze



Copper

Plastic

Wood



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00680010 | 0.1     | 3.0     | 38.0    | 0.2     | 82,29       | 78,18          | 72,00           | 65,83           |
| 00680020 | 0.2     | 3.0     | 39.0    | 0.4     | 33,30       | 31,64          | 29,14           | 26,64           |
| 00680025 | 0.25    | 3.0     | 39.0    | 0.4     | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068003  | 0.3     | 3.0     | 39.0    | 0.9     | 29,69       | 28,21          | 25,98           | 23,75           |
| 0068004K | 0.4     | 3.0     | 38.0    | 0.6     | 24,04       | 22,84          | 21,04           | 19,23           |
| 0068004  | 0.4     | 3.0     | 38.0    | 2.5     | 18,96       | 18,01          | 16,59           | 15,17           |
| 0068005K | 0.5     | 3.0     | 38.0    | 1.0     | 21,78       | 20,69          | 19,06           | 17,42           |
| 0068005  | 0.5     | 3.0     | 38.0    | 2.5     | 18,96       | 18,01          | 16,59           | 15,17           |
| 0068006K | 0.6     | 3.0     | 38.0    | 1.0     | 21,78       | 20,69          | 19,06           | 17,42           |
| 0068006  | 0.6     | 3.0     | 38.0    | 3.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068008  | 0.8     | 3.0     | 38.0    | 4.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068009  | 0.9     | 3.0     | 38.0    | 5.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068010S | 1.0     | 3.0     | 38.0    | 2.3     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068010K | 1.0     | 3.0     | 38.0    | 3.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068010  | 1.0     | 3.0     | 38.0    | 5.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068010L | 1.0     | 3.0     | 40.0    | 8.0     | 28,67       | 27,24          | 25,09           | 22,94           |
| 0068012S | 1.2     | 3.0     | 38.0    | 2.3     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068012K | 1.2     | 3.0     | 38.0    | 3.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068012  | 1.2     | 3.0     | 38.0    | 5.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068015  | 1.5     | 3.0     | 38.0    | 5.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068015S | 1.5     | 3.0     | 38.0    | 10.0    | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068016  | 1.6     | 3.0     | 38.0    | 6.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068020K | 2.0     | 3.0     | 38.0    | 4.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068020  | 2.0     | 3.0     | 38.0    | 9.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068024K | 2.4     | 3.0     | 38.0    | 5.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068024  | 2.4     | 3.0     | 40.0    | 8.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068030K | 3.0     | 3.0     | 40.0    | 6.0     | 14,79       | 14,05          | 12,94           | 11,83           |
| 0068030A | 3.0     | 3.0     | 40.0    | 10.0    | 18,29       | 17,38          | 16,00           | 14,63           |
| 0068030L | 3.0     | 3.0     | 40.0    | 12.0    | 18,29       | 17,38          | 16,00           | 14,63           |
| 0068030X | 3.0     | 3.0     | 60.0    | 25.0    | 23,70       | 22,52          | 20,74           | 18,96           |



### 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068604  | 0.4     | 3.175   | 38.0    | 2.5     | 18,96       | 18,01          | 16,59           | 15,17           |
| 0068605  | 0.5     | 3.175   | 38.0    | 3.0     | 18,40       | 17,48          | 16,10           | 14,72           |
| 0068606  | 0.6     | 3.175   | 38.0    | 3.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068608  | 0.8     | 3.175   | 38.0    | 5.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068609  | 0.9     | 3.175   | 38.0    | 5.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068610K | 1.0     | 3.175   | 38.0    | 3.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068610  | 1.0     | 3.175   | 38.0    | 4.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068612  | 1.2     | 3.175   | 38.0    | 5.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068613  | 1.3     | 3.175   | 38.0    | 5.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068615  | 1.5     | 3.175   | 38.0    | 6.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068616  | 1.6     | 3.175   | 38.0    | 6.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068617  | 1.7     | 3.175   | 38.0    | 6.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068618  | 1.8     | 3.175   | 38.0    | 6.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068620K | 2.0     | 3.175   | 38.0    | 4.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068620  | 2.0     | 3.175   | 38.0    | 8.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068624K | 2.4     | 3.175   | 38.0    | 5.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068624  | 2.4     | 3.175   | 38.0    | 8.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068625  | 2.5     | 3.175   | 38.0    | 8.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068630K | 3.0     | 3.175   | 38.0    | 6.0     | 12,19       | 11,58          | 10,67           | 9,75            |
| 0068630  | 3.0     | 3.175   | 38.0    | 10.0    | 12,19       | 11,58          | 10,67           | 9,75            |

### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068430K | 3.0     | 6.0     | 40.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068430  | 3.0     | 6.0     | 50.0    | 7.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068430G | 3.0     | 6.0     | 50.0    | 11.0    | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068434K | 4.0     | 6.0     | 40.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068434  | 4.0     | 6.0     | 50.0    | 8.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068435K | 5.0     | 6.0     | 40.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068435A | 5.0     | 6.0     | 50.0    | 8.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068435  | 5.0     | 6.0     | 50.0    | 10.0    | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068460Y | 6.0     | 6.0     | 40.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068460K | 6.0     | 6.0     | 50.0    | 10.0    | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068460  | 6.0     | 6.0     | 50.0    | 18.0    | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068460G | 6.0     | 6.0     | 58.0    | 20.0    | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068460X | 6.0     | 6.0     | 75.0    | 30.0    | 42,67       | 40,54          | 37,34           | 34,14           |
| 0068460W | 6.0     | 6.0     | 75.0    | 40.0    | 52,15       | 49,54          | 45,63           | 41,72           |
| 0068460Z | 6.0     | 6.0     | 100.0   | 40.0    | 53,73       | 51,04          | 47,01           | 42,98           |

### 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068081  | 8.0     | 8.0     | 63.0    | 16.0    | 28,44       | 27,02          | 24,89           | 22,75           |
| 0068081L | 8.0     | 8.0     | 60.0    | 32.0    | 47,41       | 45,04          | 41,48           | 37,93           |
| 0068082  | 8.0     | 8.0     | 100.0   | 40.0    | 50,91       | 48,36          | 44,55           | 40,73           |

### 10 mm Shank

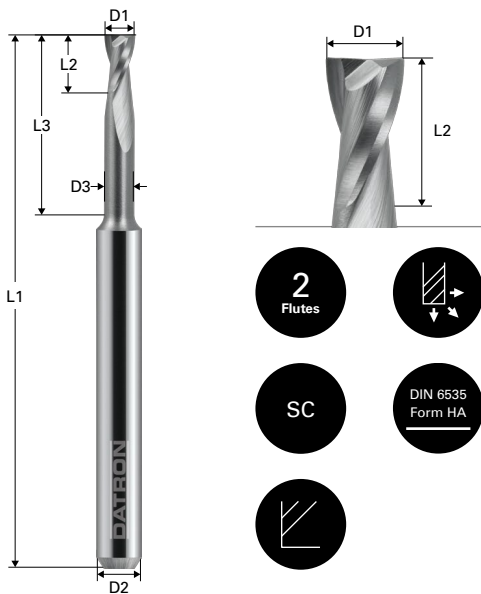
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068100  | 10.0    | 10.0    | 40.0    | 10.0    | 43,46       | 41,29          | 38,03           | 34,77           |
| 0068100A | 10.0    | 10.0    | 72.0    | 25.0    | 47,41       | 45,04          | 41,48           | 37,93           |
| 0068083  | 10.0    | 10.0    | 100.0   | 40.0    | 61,18       | 58,12          | 53,53           | 48,94           |

### 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078812L | 12.0    | 12.0    | 60.0    | 20.0    | 70,10       | 66,59          | 61,34           | 56,08           |
| 0078812B | 12.0    | 12.0    | 60.0    | 30.0    | 70,10       | 66,59          | 61,34           | 56,08           |

DATRON

# Double Flute End Mill with Toric Cut



Aluminium

Brass

Bronze



Copper

Plastic

Wood



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00781005 | 0.5     | 3.0     | 0.45    | 40.0    | 0.75    | 4.0     | 40,41       | 38,39          | 35,36           | 32,33           |
| 00781006 | 0.6     | 3.0     | 0.55    | 40.0    | 0.9     | 4.0     | 40,41       | 38,39          | 35,36           | 32,33           |
| 00781007 | 0.7     | 3.0     | 0.65    | 38.0    | 1.05    | 4.0     | 40,41       | 38,39          | 35,36           | 32,33           |
| 00781008 | 0.8     | 3.0     | 0.75    | 38.0    | 1.2     | 6.0     | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781009 | 0.9     | 3.0     | 0.85    | 38.0    | 1.3     | 6.0     | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781010 | 1.0     | 3.0     | 0.95    | 38.0    | 1.5     | 6.0     | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781011 | 1.0     | 3.0     | 0.95    | 38.0    | 1.5     | 9.0     | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781012 | 1.2     | 3.0     | 1.15    | 38.0    | 1.8     | 9.0     | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781015 | 1.5     | 3.0     | 1.45    | 38.0    | 2.2     | 9.0     | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781020 | 2.0     | 3.0     | 1.95    | 38.0    | 3.0     | 12.0    | 43,91       | 41,71          | 38,42           | 35,13           |
| 00781025 | 2.5     | 3.0     | 2.4     | 40.0    | 3.5     | 15.0    | 43,91       | 41,71          | 38,42           | 35,13           |

### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00781034 | 4.0     | 6.0     | 3.8     | 50.0    | 8.0     | 16.0    | 35,56       | 33,78          | 31,12           | 28,45           |
| 0078806  | 6.0     | 6.0     | 5.7     | 60.0    | 10.0    | 22.0    | 30,81       | 29,27          | 26,96           | 24,65           |
| 00781036 | 6.0     | 6.0     | 5.7     | 60.0    | 20.0    | 33.0    | 35,56       | 33,78          | 31,12           | 28,45           |

### 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078808  | 8.0     | 8.0     | 7.7     | 60.0    | 10.0    | 24.0    | 30,81       | 29,27          | 26,96           | 24,65           |

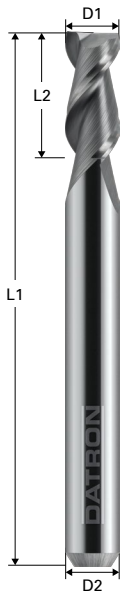
### 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078810  | 10.0    | 10.0    | 9.7     | 50.0    | 10.0    | 20.0    | 46,39       | 44,07          | 40,59           | 37,11           |
| 0078810L | 10.0    | 10.0    | 10.0    | 70.0    | 17.0    | 35.0    | 50,46       | 47,94          | 44,15           | 40,37           |

### 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078812  | 12.0    | 12.0    | 11.7    | 50.0    | 10.0    | 20.0    | 58,24       | 55,33          | 50,96           | 46,59           |

# Double Flute End Mill Contour Milling



- 
- 
- 
- 



Aluminium



Brass



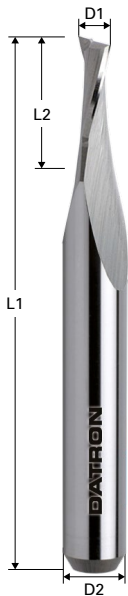
Wood



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068033  | 3.0     | 6.0     | 57.0    | 8.0     | 27,20       | 25,84              | 23,80                  | 21,76                |
| 0068034  | 4.0     | 6.0     | 57.0    | 11.0    | 27,20       | 25,84              | 23,80                  | 21,76                |
| 0068035  | 5.0     | 6.0     | 57.0    | 13.0    | 27,20       | 25,84              | 23,80                  | 21,76                |
| 0068036  | 6.0     | 6.0     | 57.0    | 13.0    | 27,20       | 25,84              | 23,80                  | 21,76                |
| 0068040  | 8.0     | 8.0     | 60.0    | 20.0    | 41,09       | 39,04              | 35,95                  | 32,87                |
| 0068041  | 8.0     | 8.0     | 60.0    | 25.0    | 42,22       | 40,11              | 36,94                  | 33,78                |
| 0068042  | 10.0    | 10.0    | 70.0    | 25.0    | 46,96       | 44,61              | 41,09                  | 37,57                |
| 0068043  | 12.0    | 12.0    | 70.0    | 25.0    | 51,70       | 49,12              | 45,24                  | 41,36                |

DATRON

# Double Flute End Mill HSC+



Plastic



Aluminium



Brass



Copper



Wood



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068815A | 1.5     | 3.0     | 40.0    | 6.0     | 20,43       | 19,41          | 17,88           | 16,34           |
| 0068820A | 2.0     | 3.0     | 40.0    | 6.0     | 20,43       | 19,41          | 17,88           | 16,34           |
| 0068830A | 3.0     | 3.0     | 40.0    | 10.0    | 20,43       | 19,41          | 17,88           | 16,34           |

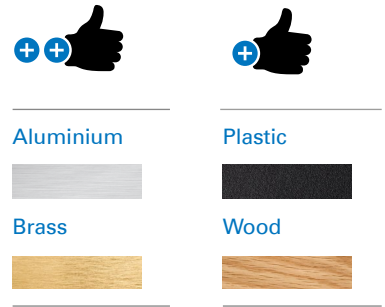
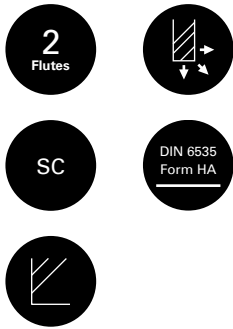
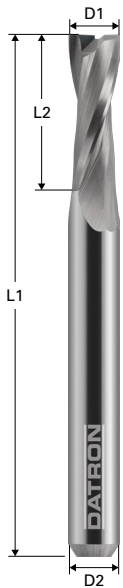
### 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068815  | 1.5     | 3.175   | 40.0    | 6.0     | 20,43       | 19,41          | 17,88           | 16,34           |
| 0068820  | 2.0     | 3.175   | 40.0    | 6.0     | 20,43       | 19,41          | 17,88           | 16,34           |
| 0068824  | 2.4     | 3.175   | 40.0    | 6.0     | 20,43       | 19,41          | 17,88           | 16,34           |
| 0068830K | 3.0     | 3.175   | 40.0    | 6.0     | 20,43       | 19,41          | 17,88           | 16,34           |
| 0068830  | 3.0     | 3.175   | 40.0    | 10.0    | 20,43       | 19,41          | 17,88           | 16,34           |

### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068866  | 1.9     | 6.0     | 50.0    | 6.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068862K | 2.0     | 6.0     | 50.0    | 4.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068862  | 2.0     | 6.0     | 50.0    | 6.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068867  | 2.4     | 6.0     | 50.0    | 5.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068863K | 3.0     | 6.0     | 50.0    | 6.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068863  | 3.0     | 6.0     | 50.0    | 10.0    | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068864  | 4.0     | 6.0     | 50.0    | 8.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068865  | 5.0     | 6.0     | 50.0    | 10.0    | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068860K | 6.0     | 6.0     | 50.0    | 7.0     | 27,88       | 26,49          | 24,40           | 22,30           |
| 0068860  | 6.0     | 6.0     | 58.0    | 12.0    | 27,88       | 26,49          | 24,40           | 22,30           |

# Double Flute End Mill HSC Fire



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€)  |                 |       |
|----------|---------|---------|---------|---------|-------------|-----------------|-----------------|-------|
|          |         |         |         |         |             | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |       |
| 0068876S | 6.0     | 6.0     | 50.0    | 12.0    | 26,64       | 25,31           | 23,31           | 21,31 |
| 0068876K | 6.0     | 6.0     | 50.0    | 17.0    | 27,88       | 26,49           | 24,40           | 22,30 |
| 0068876  | 6.0     | 6.0     | 60.0    | 22.0    | 30,36       | 28,84           | 26,57           | 24,29 |
| 0068876L | 6.0     | 6.0     | 70.0    | 32.0    | 38,94       | 36,99           | 34,07           | 31,15 |

## 8 mm Shank

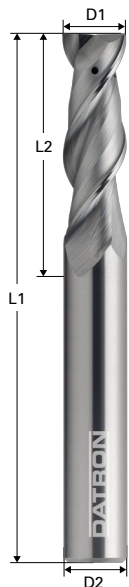
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€)  |                 |       |
|----------|---------|---------|---------|---------|-------------|-----------------|-----------------|-------|
|          |         |         |         |         |             | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |       |
| 0068878S | 8.0     | 8.0     | 50.0    | 12.0    | 32,62       | 30,99           | 28,54           | 26,10 |
| 0068878K | 8.0     | 8.0     | 50.0    | 17.0    | 34,20       | 32,49           | 29,93           | 27,36 |
| 0068878  | 8.0     | 8.0     | 60.0    | 22.0    | 36,46       | 34,64           | 31,90           | 29,17 |
| 0068878L | 8.0     | 8.0     | 70.0    | 32.0    | 43,91       | 41,71           | 38,42           | 35,13 |

## 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€)  |                 |       |
|----------|---------|---------|---------|---------|-------------|-----------------|-----------------|-------|
|          |         |         |         |         |             | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |       |
| 0068870S | 10.0    | 10.0    | 50.0    | 12.0    | 36,80       | 34,96           | 32,20           | 29,44 |
| 0068870K | 10.0    | 10.0    | 50.0    | 17.0    | 38,60       | 36,67           | 33,78           | 30,88 |
| 0068870  | 10.0    | 10.0    | 60.0    | 22.0    | 43,91       | 41,71           | 38,42           | 35,13 |
| 0068870L | 10.0    | 10.0    | 70.0    | 32.0    | 48,31       | 45,89           | 42,27           | 38,65 |

DATRON

# Double Flute End Mill with Internal Cooling



Aluminium



Copper



Brass



Plastic



Wood



Bronze



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068906K | 6.0     | 6.0     |         | 60.0    | 14.0    |         | 66,03       | 62,73          | 57,78           | 52,82           |
| 0068906  | 6.0     | 6.0     |         | 60.0    | 22.0    |         | 67,61       | 64,23          | 59,16           | 54,09           |
| 0068906L | 6.0     | 6.0     | 5.6     | 60.0    | 22.0    | 32.0    | 77,32       | 73,45          | 67,66           | 61,86           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068908K | 8.0     | 8.0     |         | 60.0    | 16.0    |         | 78,90       | 74,96          | 69,04           | 63,12           |
| 0068908  | 8.0     | 8.0     |         | 60.0    | 22.0    |         | 81,16       | 77,10          | 71,02           | 64,93           |
| 0068908L | 8.0     | 8.0     | 7.4     | 60.0    | 22.0    | 32.0    | 101,02      | 95,97          | 88,39           | 80,82           |

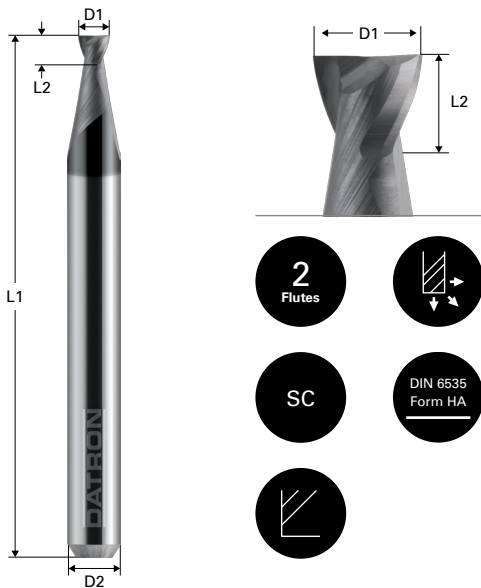
## 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068910K | 10.0    | 10.0    |         | 70.0    | 26.0    |         | 95,83       | 91,04          | 83,85           | 76,66           |
| 0068910  | 10.0    | 10.0    |         | 70.0    | 32.0    |         | 96,96       | 92,11          | 84,84           | 77,57           |
| 0068910L | 10.0    | 10.0    | 9.2     | 70.0    | 32.0    | 38.0    | 108,92      | 103,47         | 95,31           | 87,14           |

## 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068912K | 12.0    | 12.0    |         | 80.0    | 26.0    |         | 122,92      | 116,77         | 107,56          | 98,34           |
| 0068912  | 12.0    | 12.0    |         | 80.0    | 32.0    |         | 124,05      | 117,85         | 108,54          | 99,24           |
| 0068912L | 12.0    | 12.0    | 11.2    | 80.0    | 32.0    | 48.0    | 134,89      | 128,15         | 118,03          | 107,91          |

# Double Flute End Mill for Steel Machining (X.CEED)



Steel

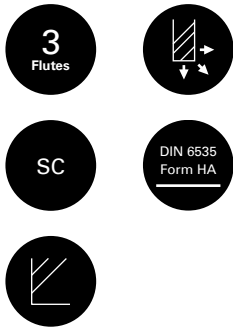
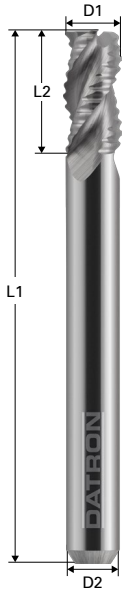


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078009S | 0.9     | 3.0     | 38.0    | 1.1     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078009K | 0.9     | 3.0     | 38.0    | 1.8     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078010S | 1.0     | 3.0     | 38.0    | 1.2     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078010K | 1.0     | 3.0     | 38.0    | 2.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078011S | 1.1     | 3.0     | 38.0    | 1.2     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078011K | 1.1     | 3.0     | 38.0    | 2.2     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078012S | 1.2     | 3.0     | 38.0    | 1.2     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078012K | 1.2     | 3.0     | 38.0    | 2.4     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078013S | 1.3     | 3.0     | 38.0    | 1.2     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078013K | 1.3     | 3.0     | 38.0    | 2.6     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078014S | 1.4     | 3.0     | 38.0    | 1.4     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078014K | 1.4     | 3.0     | 38.0    | 2.8     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078015S | 1.5     | 3.0     | 38.0    | 1.4     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078015K | 1.5     | 3.0     | 38.0    | 3.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078016S | 1.6     | 3.0     | 38.0    | 1.4     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078016K | 1.6     | 3.0     | 38.0    | 3.2     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078017S | 1.7     | 3.0     | 38.0    | 1.4     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078017K | 1.7     | 3.0     | 38.0    | 3.4     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078018S | 1.8     | 3.0     | 38.0    | 1.5     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078018K | 1.8     | 3.0     | 38.0    | 3.6     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078019S | 1.9     | 3.0     | 38.0    | 1.5     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078019K | 1.9     | 3.0     | 38.0    | 4.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078020S | 2.0     | 3.0     | 38.0    | 1.8     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078020K | 2.0     | 3.0     | 38.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078021K | 2.1     | 3.0     | 38.0    | 5.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078022K | 2.2     | 3.0     | 38.0    | 5.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078023K | 2.3     | 3.0     | 38.0    | 5.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078024K | 2.4     | 3.0     | 38.0    | 5.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078025S | 2.5     | 3.0     | 38.0    | 2.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078025K | 2.5     | 3.0     | 38.0    | 7.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0078030K | 3.0     | 3.0     | 38.0    | 7.0     | 26,64       | 25,31          | 23,31           | 21,31           |

DATRON

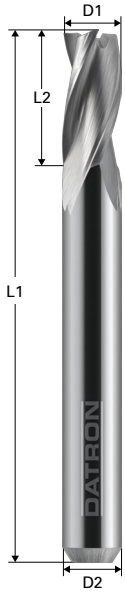
# Triple Flute End Mill Roughing Mill for Copper



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00685903 | 3.0     | 6.0     | 50.0    | 6.0     | 37,47       | 35,60          | 32,79           | 29,98           |
| 00685906 | 6.0     | 6.0     | 50.0    | 12.0    | 37,47       | 35,60          | 32,79           | 29,98           |
| 00685908 | 8.0     | 8.0     | 50.0    | 16.0    | 48,76       | 46,32          | 42,67           | 39,01           |
| 00685910 | 10.0    | 10.0    | 60.0    | 22.0    | 59,71       | 56,72          | 52,25           | 47,77           |



# Triple Flute End Mill Smoothing Mill for Copper



- 3**  
Flutes
- 
- SC**
- DIN 6535  
Form HA
- 



Copper



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00685610 | 1.0     | 6.0     | 50.0    | 2.2     | 30,36       | 28,84          | 26,57           | 24,29           |
| 00685615 | 1.5     | 6.0     | 50.0    | 3.2     | 30,36       | 28,84          | 26,57           | 24,29           |
| 00685620 | 2.0     | 6.0     | 50.0    | 4.2     | 30,36       | 28,84          | 26,57           | 24,29           |
| 00685630 | 3.0     | 6.0     | 50.0    | 6.0     | 30,36       | 28,84          | 26,57           | 24,29           |
| 00685640 | 4.0     | 6.0     | 50.0    | 8.0     | 30,36       | 28,84          | 26,57           | 24,29           |
| 00685660 | 6.0     | 6.0     | 50.0    | 11.0    | 30,36       | 28,84          | 26,57           | 24,29           |
| 00685680 | 8.0     | 8.0     | 50.0    | 16.0    | 41,54       | 39,46          | 36,35           | 33,23           |

DATRON

# Triple Flute End Mill with Toric Cut



Wood



Aluminium



Brass

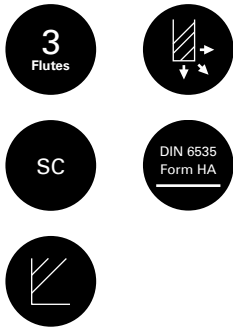
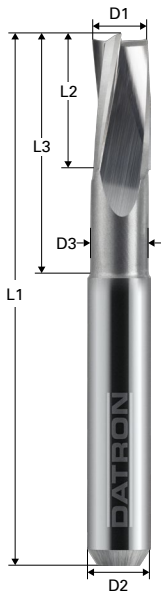


Copper



| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068033A | 3.0     | 6.0     | 2.8     | 58.0    | 8.0     | 12.0    | 29,69       | 28,21          | 25,98           | 23,75           |
| 0068034A | 4.0     | 6.0     | 3.8     | 58.0    | 11.0    | 16.0    | 29,69       | 28,21          | 25,98           | 23,75           |
| 0068035A | 5.0     | 6.0     | 4.8     | 58.0    | 13.0    | 19.0    | 29,69       | 28,21          | 25,98           | 23,75           |
| 0068036A | 6.0     | 6.0     | 5.7     | 58.0    | 13.0    | 19.0    | 29,69       | 28,21          | 25,98           | 23,75           |
| 0068040A | 8.0     | 8.0     | 7.8     | 63.0    | 19.0    | 27.0    | 43,34       | 41,17          | 37,92           | 34,67           |
| 0068042A | 10.0    | 10.0    | 9.8     | 72.0    | 22.0    | 32.0    | 49,33       | 46,86          | 43,16           | 39,46           |
| 0068043A | 12.0    | 12.0    | 11.8    | 83.0    | 26.0    | 38.0    | 54,07       | 51,37          | 47,31           | 43,26           |

# Triple Flute End Mill with Toric Cut for PU Foam



PU Foams



### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00680530 | 3.0     | 6.0     | 2.7     | 75.0    | 12.0    | 41.0    | 58,36       | 55,44          | 51,07           | 46,69           |
| 0068053K | 3.0     | 6.0     | 2.7     | 50.0    | 6.0     | 22.0    | 39,39       | 37,42          | 34,47           | 31,51           |
| 00680540 | 4.0     | 6.0     | 3.6     | 75.0    | 15.0    | 41.0    | 58,36       | 55,44          | 51,07           | 46,69           |
| 0068054K | 4.0     | 6.0     | 3.6     | 50.0    | 8.0     | 22.0    | 39,39       | 37,42          | 34,47           | 31,51           |
| 00680550 | 5.0     | 6.0     | 4.5     | 75.0    | 20.0    | 41.0    | 58,36       | 55,44          | 51,07           | 46,69           |
| 0068055K | 5.0     | 6.0     | 4.5     | 50.0    | 12.0    | 22.0    | 39,39       | 37,42          | 34,47           | 31,51           |
| 00680560 | 6.0     | 6.0     | 5.5     | 75.0    | 27.0    | 42.0    | 58,36       | 55,44          | 51,07           | 46,69           |
| 0068056A | 6.0     | 6.0     | 5.5     | 100.0   | 27.0    | 71.0    | 69,76       | 66,27          | 61,04           | 55,81           |
| 0068056K | 6.0     | 6.0     | 5.5     | 50.0    | 12.0    | 22.0    | 39,39       | 37,42          | 34,47           | 31,51           |

### 8 mm Shank

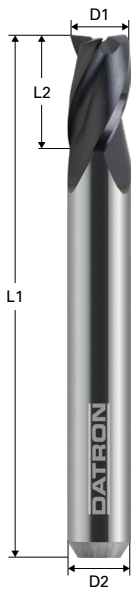
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00680580 | 8.0     | 8.0     | 7.5     | 75.0    | 28.0    | 42.0    | 75,51       | 71,73          | 66,07           | 60,41           |
| 0068058A | 8.0     | 8.0     | 7.5     | 100.0   | 42.0    | 71.0    | 80,82       | 76,78          | 70,72           | 64,66           |
| 0068058K | 8.0     | 8.0     | 7.5     | 50.0    | 16.0    | 25.0    | 61,97       | 58,87          | 54,22           | 49,58           |

### 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00680510 | 10.0    | 10.0    | 9.5     | 115.0   | 52.0    | 82.0    | 120,21      | 114,20         | 105,18          | 96,17           |
| 0068051K | 10.0    | 10.0    | 9.5     | 60.0    | 20.0    | 30.0    | 90,19       | 85,68          | 78,92           | 72,15           |

DATRON

# Triple Flute End Mill with Coating (X.CEED)

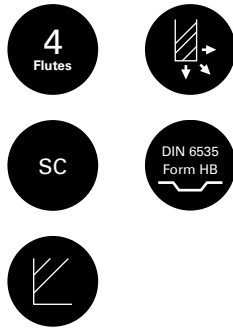
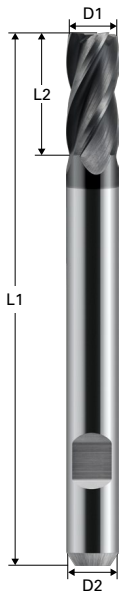


Steel



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068551  | 1.75    | 3.0     | 40.0    | 3.0     | 17,38       | 16,51          | 15,21           | 13,90           |
| 0068552  | 2.0     | 6.0     | 50.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068553  | 3.0     | 6.0     | 50.0    | 6.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068554  | 4.0     | 6.0     | 50.0    | 8.0     | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068555  | 5.0     | 6.0     | 50.0    | 10.0    | 26,64       | 25,31          | 23,31           | 21,31           |
| 0068556  | 6.0     | 6.0     | 50.0    | 10.0    | 26,64       | 25,31          | 23,31           | 21,31           |

# Four Flute End Mill with Coating (ALCRONA)



Steel



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078402  | 2.0     | 6.0     | 50.0    | 7.0     | 27,20       | 25,84          | 23,80           | 21,76           |
| 00784025 | 2.5     | 6.0     | 50.0    | 8.0     | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078403  | 3.0     | 6.0     | 57.0    | 8.0     | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078403A | 3.0     | 6.0     | 57.0    | 19.0    | 34,43       | 32,71          | 30,13           | 27,54           |
| 00784035 | 3.5     | 6.0     | 57.0    | 10.0    | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078404  | 4.0     | 6.0     | 57.0    | 11.0    | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078404A | 4.0     | 6.0     | 57.0    | 19.0    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0078404B | 4.0     | 6.0     | 75.0    | 25.0    | 38,04       | 36,14          | 33,29           | 30,43           |
| 00784045 | 4.5     | 6.0     | 57.0    | 11.0    | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078405  | 5.0     | 6.0     | 57.0    | 13.0    | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078405A | 5.0     | 6.0     | 75.0    | 30.0    | 38,04       | 36,14          | 33,29           | 30,43           |
| 00784055 | 5.5     | 6.0     | 57.0    | 13.0    | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078406  | 6.0     | 6.0     | 57.0    | 13.0    | 27,20       | 25,84          | 23,80           | 21,76           |
| 0078406A | 6.0     | 6.0     | 75.0    | 30.0    | 38,04       | 36,14          | 33,29           | 30,43           |
| 0078406B | 6.0     | 6.0     | 100.0   | 40.0    | 40,52       | 38,49          | 35,46           | 32,42           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00784065 | 6.5     | 8.0     | 63.0    | 16.0    | 36,80       | 34,96          | 32,20           | 29,44           |
| 0078407  | 7.0     | 8.0     | 63.0    | 16.0    | 36,80       | 34,96          | 32,20           | 29,44           |
| 0078408  | 8.0     | 8.0     | 63.0    | 19.0    | 36,80       | 34,96          | 32,20           | 29,44           |
| 0078408A | 8.0     | 8.0     | 75.0    | 30.0    | 42,78       | 40,64          | 37,43           | 34,22           |

## 10 mm Shank

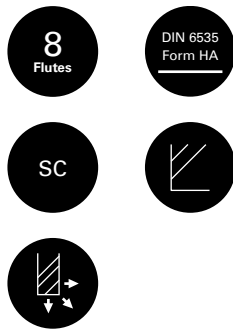
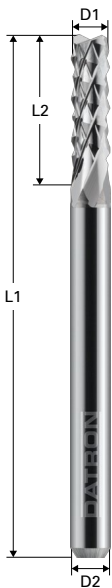
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078409  | 9.0     | 10.0    | 72.0    | 19.0    | 48,65       | 46,22          | 42,57           | 38,92           |
| 0078410  | 10.0    | 10.0    | 72.0    | 22.0    | 48,65       | 46,22          | 42,57           | 38,92           |
| 0078410A | 10.0    | 10.0    | 75.0    | 30.0    | 57,00       | 54,15          | 49,88           | 45,60           |
| 0078410B | 10.0    | 10.0    | 100.0   | 40.0    | 68,85       | 65,41          | 60,24           | 55,08           |

## 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078412  | 12.0    | 12.0    | 83.0    | 26.0    | 64,11       | 60,90          | 56,10           | 51,29           |
| 0078412A | 12.0    | 12.0    | 100.0   | 45.0    | 85,45       | 81,18          | 74,77           | 68,36           |

DATRON

# Micro-Toothed End Mill



GFK/CFK



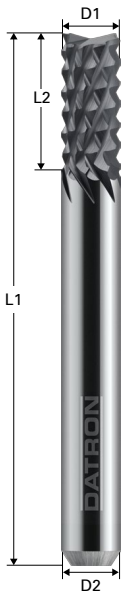
## 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068106  | 0.6     | 3.0     | 38.0    | 3.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068107  | 0.7     | 3.0     | 38.0    | 3.5     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068108  | 0.8     | 3.0     | 38.0    | 5.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068110  | 1.0     | 3.0     | 38.0    | 5.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068111  | 1.1     | 3.0     | 38.0    | 5.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068112  | 1.2     | 3.0     | 38.0    | 5.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068115  | 1.5     | 3.0     | 38.0    | 8.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068120  | 2.0     | 3.0     | 38.0    | 8.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068124  | 2.4     | 3.0     | 38.0    | 8.0     | 13,09       | 12,44          | 11,45           | 10,47           |
| 0068130  | 3.0     | 3.0     | 38.0    | 12.0    | 13,09       | 12,44          | 11,45           | 10,47           |

## 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00686506 | 0.6     | 3.175   | 38.0    | 3.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686508 | 0.8     | 3.175   | 38.0    | 5.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686510 | 1.0     | 3.175   | 38.0    | 5.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686511 | 1.1     | 3.175   | 38.0    | 7.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686512 | 1.2     | 3.175   | 38.0    | 7.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686513 | 1.3     | 3.175   | 38.0    | 7.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686514 | 1.4     | 3.175   | 38.0    | 7.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686515 | 1.5     | 3.175   | 38.0    | 7.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686516 | 1.6     | 3.175   | 38.0    | 8.5     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686517 | 1.7     | 3.175   | 38.0    | 8.5     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686518 | 1.8     | 3.175   | 38.0    | 8.5     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686519 | 1.9     | 3.175   | 38.0    | 8.5     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686520 | 2.0     | 3.175   | 38.0    | 8.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686521 | 2.1     | 3.175   | 38.0    | 9.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686522 | 2.2     | 3.175   | 38.0    | 9.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686523 | 2.3     | 3.175   | 38.0    | 9.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686524 | 2.4     | 3.175   | 38.0    | 9.0     | 10,84       | 10,30          | 9,49            | 8,67            |
| 00686530 | 3.0     | 3.175   | 38.0    | 10.0    | 10,84       | 10,30          | 9,49            | 8,67            |

# Micro-Toothed End Mill with Coating (X.CEED/Diamond)



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GFK/CFK



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | BS     | 1 Piece (€) | ≥ 5 Pieces (€) ≥ 10 Pieces (€) ≥ 25 Pieces (€) |        |       |
|----------|---------|---------|---------|---------|--------|-------------|------------------------------------------------|--------|-------|
|          |         |         |         |         |        |             | -5%                                            | -12,5% | -20%  |
| 006T106  | 0.6     | 3.0     | 40.0    | 3.0     | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |
| 006T107  | 0.7     | 3.0     | 40.0    | 3.5     | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |
| 006T110  | 1.0     | 3.0     | 40.0    | 5.0     | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |
| 006T115  | 1.5     | 3.0     | 40.0    | 8.0     | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |
| 006T120  | 2.0     | 3.0     | 40.0    | 8.0     | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |
| 006T124  | 2.4     | 3.0     | 40.0    | 8.0     | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |
| 006T130  | 3.0     | 3.0     | 40.0    | 12.0    | X.CEED | 16,03       | 15,23                                          | 14,03  | 12,82 |

### 6 mm Shank

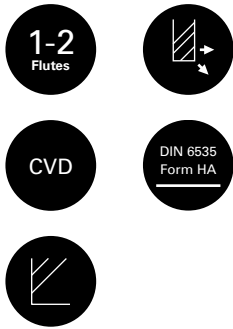
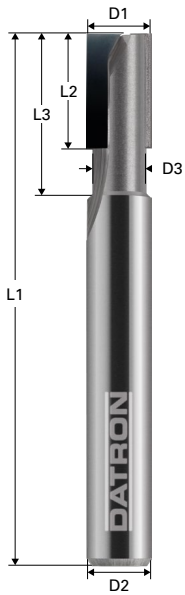
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | BS     | 1 Piece (€) | ≥ 5 Pieces (€) ≥ 10 Pieces (€) ≥ 25 Pieces (€) |        |       |
|----------|---------|---------|---------|---------|--------|-------------|------------------------------------------------|--------|-------|
|          |         |         |         |         |        |             | -5%                                            | -12,5% | -20%  |
| 0068164  | 4.0     | 6.0     | 50.0    | 16.0    | X.CEED | 47,41       | 45,04                                          | 41,48  | 37,93 |
| 0068165  | 5.0     | 6.0     | 50.0    | 22.0    | X.CEED | 47,41       | 45,04                                          | 41,48  | 37,93 |
| 0068166S | 6.0     | 6.0     | 50.0    | 12.0    | X.CEED | 47,41       | 45,04                                          | 41,48  | 37,93 |

### 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | BS      | 1 Piece (€) | ≥ 5 Pieces (€) ≥ 10 Pieces (€) ≥ 25 Pieces (€) |        |       |
|----------|---------|---------|---------|---------|---------|-------------|------------------------------------------------|--------|-------|
|          |         |         |         |         |         |             | -5%                                            | -12,5% | -20%  |
| 0073126B | 2.0     | 3.175   | 38.0    | 9.0     | Diamant | 18,96       | 18,01                                          | 16,59  | 15,17 |
| 0073126C | 2.4     | 3.175   | 38.0    | 9.0     | Diamant | 18,96       | 18,01                                          | 16,59  | 15,17 |
| 0073126D | 3.0     | 3.175   | 38.0    | 9.0     | Diamant | 18,96       | 18,01                                          | 16,59  | 15,17 |

DATRON

# Diamond Mill for CRP/GRP



CFK/GFK



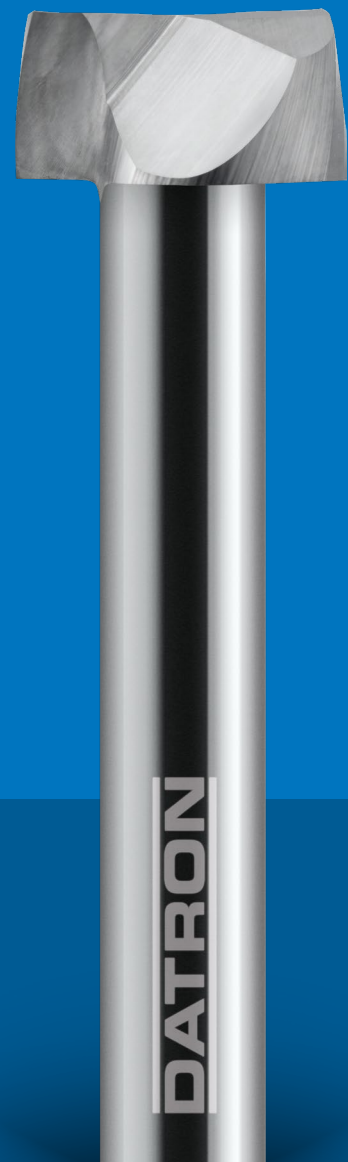
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Number of Flutes | 1 Piece (€) |
|----------|---------|---------|---------|---------|---------|---------|------------------|-------------|
| 00781203 | 3.0     | 6.0     | 2.8     | 50.0    | 5.0     | 10.0    | 1                | 337,23      |
| 00781204 | 4.0     | 6.0     | 3.8     | 50.0    | 6.0     | 6.0     | 2                | 407,32      |
| 00781206 | 6.0     | 6.0     | 5.6     | 50.0    | 10.0    | 14.0    | 2                | 419,68      |
| 00781208 | 8.0     | 8.0     | 7.2     | 50.0    | 12.0    | 16.0    | 2                | 552,87      |
| 00781210 | 10.0    | 10.0    | 9.2     | 60.0    | 8.0     | 17.0    | 2                | 576,20      |



DATRON

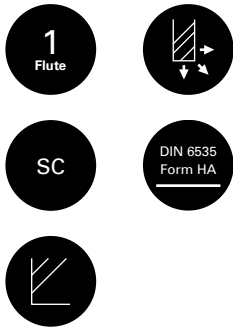
## Face Milling Tools

|                                                                                         |    |
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| Single Flute End Mill, Stepped                                                          | 42 |
| Double Flute End Mill, Stepped                                                          | 43 |
| Double Flute End Mill, Stepped with Edge Radius                                         | 44 |
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| Face Milling Tool Monoblock                                                             | 46 |



DATRON

# Single Flute End Mill Stepped and balanced



Aluminium



Brass



Copper



Wood



Plastic

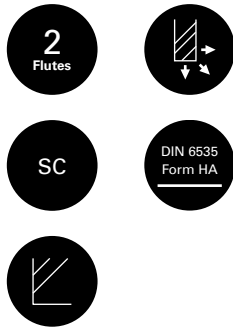


| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068812G | 12.0    | 6.0     | 45.0    | 5.0     | 89,00       | 84,55          | 77,88           | 71,20           |
| 0068814E | 14.0    | 8.0     | 45.0    | 5.0     | 109,00      | 103,55         | 95,38           | 87,20           |
| 0068820E | 20.0    | 10.0    | 50.0    | 7.0     | 149,00      | 141,55         | 130,38          | 119,20          |
| 0068824E | 24.0    | 12.0    | 60.0    | 8.5     | 199,00      | 189,05         | 174,13          | 159,20          |

**DATRON**

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068814E | 14      | 8       | 45      | 5       | 109,00 €    | 103,55 €       | 95,38 €         | 87,20 €         |

# Double Flute End Mill Stepped



Aluminium



Brass



Copper



Wood



Plastic



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068441  | 8.0     | 6.0     | 50.0    | 10.0    | 41,09       | 39,04          | 35,95           | 32,87           |
| 0068440  | 10.0    | 6.0     | 50.0    | 10.0    | 57,68       | 54,80          | 50,47           | 46,14           |
| 0068442G | 12.0    | 6.0     | 50.0    | 6.0     | 68,85       | 65,41          | 60,24           | 55,08           |
| 0068442A | 14.0    | 6.0     | 50.0    | 6.0     | 109,15      | 103,69         | 95,51           | 87,32           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068443G | 14.0    | 8.0     | 50.0    | 6.0     | 97,30       | 92,44          | 85,14           | 77,84           |
| 0068444G | 20.0    | 8.0     | 50.0    | 8.0     | 124,61      | 118,38         | 109,03          | 99,69           |

## 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078812A | 12.0    | 10.0    | 50.0    | 10.0    | 58,24       | 55,33          | 50,96           | 46,59           |
| 0078814A | 14.0    | 10.0    | 50.0    | 10.0    | 81,95       | 77,85          | 71,71           | 65,56           |
| 0078816A | 16.0    | 10.0    | 50.0    | 10.0    | 93,80       | 89,11          | 82,08           | 75,04           |
| 0078816B | 16.0    | 10.0    | 82.0    | 12.0    | 242,68      | 230,55         | 212,35          | 194,14          |
| 0078818A | 18.0    | 10.0    | 50.0    | 10.0    | 117,50      | 111,63         | 102,81          | 94,00           |
| 0078820A | 20.0    | 10.0    | 50.0    | 10.0    | 129,35      | 122,88         | 113,18          | 103,48          |

## 12 mm Shank

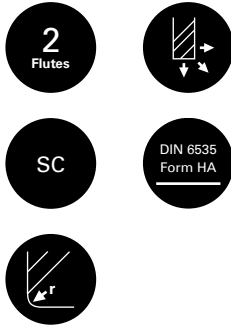
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078814  | 14.0    | 12.0    | 50.0    | 10.0    | 81,95       | 77,85          | 71,71           | 65,56           |
| 0078816  | 16.0    | 12.0    | 50.0    | 10.0    | 93,80       | 89,11          | 82,08           | 75,04           |
| 0078818  | 18.0    | 12.0    | 50.0    | 10.0    | 117,50      | 111,63         | 102,81          | 94,00           |
| 0078820  | 20.0    | 12.0    | 50.0    | 10.0    | 129,35      | 122,88         | 113,18          | 103,48          |

**DATRON**

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078808  | 8       | 8       | 60      | 10      | 30,81 €     | 29,27 €        | 26,96 €         | 24,65 €         |
| 0078808R | 8       | 8       | 60      | 12      | 43,91 €     | 41,71 €        | 38,42 €         | 35,13 €         |
| 0068443G | 14      | 8       | 50      | 6       | 97,30 €     | 92,44 €        | 85,14 €         | 77,84 €         |

DATRON

# Double Flute End Mill Stepped with Edge Radius



Aluminium



Brass



Copper



Wood



Plastic



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 0068442  | 12.0    | 6.0     | 50.0    | 6.0     | 0.5    | 68,85       | 65,41              | 60,24                  | 55,08                |
| 0068442N | 12.0    | 8.0     | 50.0    | 6.0     | 0.5    | 65,58       | 62,30              | 57,38                  | 52,46                |
| 0068443  | 14.0    | 8.0     | 50.0    | 6.0     | 0.5    | 97,30       | 92,44              | 85,14                  | 77,84                |
| 0068444  | 20.0    | 8.0     | 50.0    | 8.0     | 0.5    | 124,61      | 118,38             | 109,03                 | 99,69                |

**DATRON** *neo*

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 0068080K | 8       | 8       | 50      | 12      | 1      | 43,91 €     | 41,71 €            | 38,42 €                | 35,13 €              |
| 0068442N | 12      | 8       | 50      | 6       | 0,5    | 65,58 €     | 62,30 €            | 57,38 €                | 52,46 €              |
| 0068443  | 14      | 8       | 50      | 6       | 0,5    | 97,30 €     | 92,44 €            | 85,14 €                | 77,84 €              |

# Double Flute End Mill Stepped with Edge Radius and Polished Flute for Acrylic Glass



Acrylic Glass



Plastic



### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078440  | 10.0    | 6.0     | 50.0    | 6.0     | 1.0    | 78,90       | 74,96          | 69,04           | 63,12           |
| 0078442  | 12.0    | 6.0     | 50.0    | 6.0     | 1.0    | 95,38       | 90,61          | 83,46           | 76,30           |

### 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078444  | 14.0    | 8.0     | 50.0    | 6.0     | 1.0    | 137,71      | 130,82         | 120,50          | 110,17          |
| 0078446  | 16.0    | 8.0     | 50.0    | 6.0     | 1.0    | 168,41      | 159,99         | 147,36          | 134,73          |

## DATRON RED

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0078444  | 14      | 8       | 50      | 6       | 1       | 137,71 €    | 130,82 €       | 120,50 €        | 110,17 €        |

DATRON

# Face Milling Tool Monoblock



Aluminium



Copper



Brass



Steel



Plastic



Bronze



Wood



| Art. No.  | Type     | D1 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) |
|-----------|----------|---------|---------|---------|---------|-------------|
| 0078920*  | HSK-E-25 | 20.0    | 18.5    | 40.0    | 10.0    | 699,00      |
| 0078920L* | HSK-E-25 | 20.0    | 18.5    | 60.0    | 10.0    | 749,00      |
| 0078924*  | HSK-E-32 | 24.0    | 22.5    | 45.0    | 10.0    | 849,00      |
| 0078924L* | HSK-E-32 | 24.0    | 22.5    | 65.0    | 10.0    | 889,00      |

| Art. No. | Article Description       | For Face Milling Tool    | Material  | R (mm) | 1 Piece (€) |
|----------|---------------------------|--------------------------|-----------|--------|-------------|
| 0078920A | Cutting Insert (polished) | 0078920 / 20L / 24 / 24L | Aluminium | 0.8    | 24,90       |
| 0078920B | Cutting Insert            | 0078920 / 20L / 24 / 24L | Steel     | 0.8    | 24,90       |

| Art. No. | Article Description                      | 1 Piece (€) |
|----------|------------------------------------------|-------------|
| 0078920C | Screw Set with 10 Screws and Screwdriver | 41,90       |

Please note: This tool can only be measured with the DATRON tool length sensor.

\* Monoblock basic tool without cutting inserts. Please specify which cutting inserts are needed when ordering!

DATRON

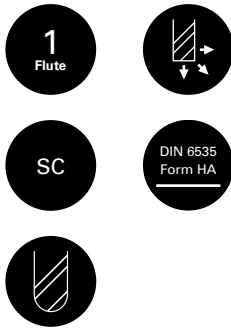
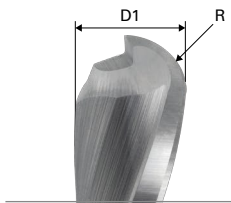
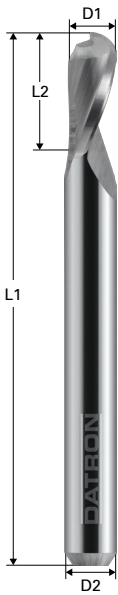
## Ball Nose End Mills

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DATRON

# Ball Nose End Mill One Flute



Aluminium



Plastic



Wood



Bronze



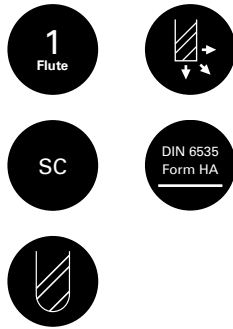
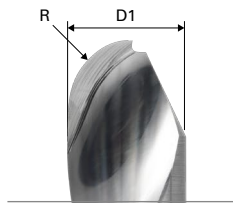
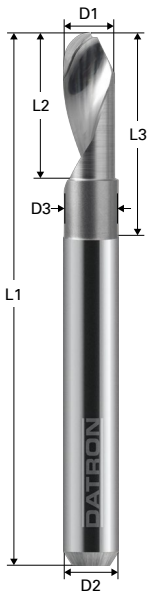
Brass



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0068171E | 1.0     | 3.0     | 40.0    | 4.0     | 0.5    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068172E | 2.0     | 6.0     | 50.0    | 7.0     | 1.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068173E | 3.0     | 6.0     | 50.0    | 8.0     | 1.5    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068174E | 4.0     | 6.0     | 50.0    | 10.0    | 2.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068175E | 5.0     | 6.0     | 50.0    | 12.0    | 2.5    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068176E | 6.0     | 6.0     | 50.0    | 14.0    | 3.0    | 33,08       | 31,43          | 28,95           | 26,46           |
| 0068178E | 8.0     | 8.0     | 60.0    | 14.0    | 4.0    | 38,64       | 36,71          | 33,81           | 30,91           |
| 0068179E | 10.0    | 10.0    | 60.0    | 20.0    | 5.0    | 49,67       | 47,19          | 43,46           | 39,74           |



# Ball Nose End Mill One Flute and Polished for Acrylic Glass



Acrylic Glass



Plastic

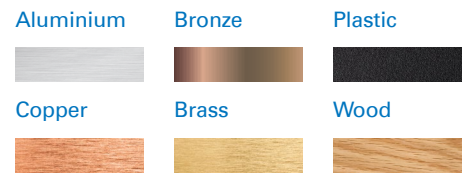
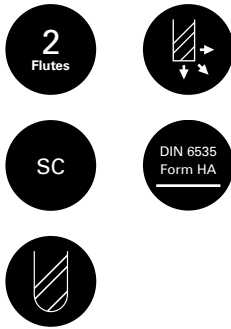
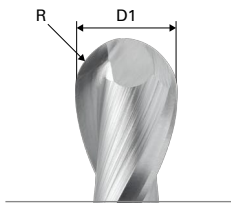
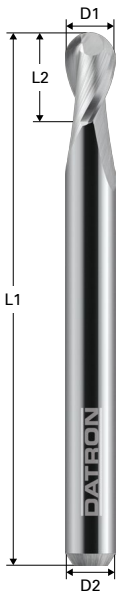


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | Price (€) |                  |                      |                    |
|----------|---------|---------|---------|---------|---------|---------|--------|-----------|------------------|----------------------|--------------------|
|          |         |         |         |         |         |         |        | 1 Piece   | ≥ 5 Pieces (-5%) | ≥ 10 Pieces (-12,5%) | ≥ 25 Pieces (-20%) |
| 0068191E | 1.0     | 6.0     | 0.9     | 50.0    | 4.0     | 12.0    | 0.5    | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068191S | 1.5     | 6.0     | 1.4     | 50.0    | 5.0     | 12.0    | 0.75   | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068192E | 2.0     | 6.0     | 1.8     | 50.0    | 6.0     | 20.0    | 1.0    | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068192S | 2.5     | 6.0     | 2.3     | 50.0    | 7.0     | 20.0    | 1.25   | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068193E | 3.0     | 6.0     | 2.8     | 50.0    | 8.0     | 21.0    | 1.5    | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068194E | 4.0     | 6.0     | 3.8     | 50.0    | 10.0    | 21.0    | 2.0    | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068195E | 5.0     | 6.0     | 4.8     | 50.0    | 12.0    | 22.0    | 2.5    | 52,29     | 49,68            | 45,75                | 41,83              |
| 0068196E | 6.0     | 6.0     | 5.8     | 50.0    | 14.0    | 22.0    | 3.0    | 52,29     | 49,68            | 45,75                | 41,83              |

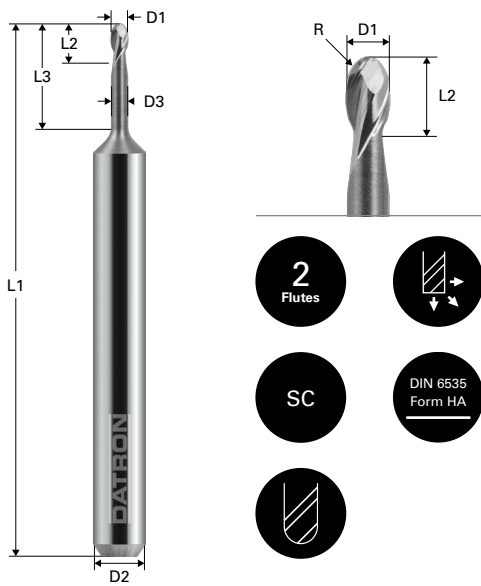
DATRON

# Ball Nose End Mill Two Flutes



| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 00684003 | 0.3     | 3.0     | 40.0    | 0.5     | 0.15   | 49,21       | 46,75          | 43,06           | 39,37           |
| 00684005 | 0.5     | 3.0     | 39.0    | 0.8     | 0.25   | 36,23       | 34,42          | 31,70           | 28,98           |
| 00684007 | 0.7     | 3.0     | 39.0    | 2.1     | 0.35   | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068400  | 1.0     | 3.0     | 38.0    | 3.0     | 0.5    | 25,51       | 24,23          | 22,32           | 20,41           |
| 0068403  | 3.0     | 6.0     | 50.0    | 4.0     | 1.5    | 30,25       | 28,74          | 26,47           | 24,20           |
| 0068404  | 4.0     | 6.0     | 50.0    | 5.0     | 2.0    | 30,25       | 28,74          | 26,47           | 24,20           |
| 0068405  | 5.0     | 6.0     | 50.0    | 5.0     | 2.5    | 30,25       | 28,74          | 26,47           | 24,20           |
| 0068406  | 6.0     | 6.0     | 50.0    | 10.0    | 3.0    | 30,25       | 28,74          | 26,47           | 24,20           |
| 0068408  | 8.0     | 8.0     | 50.0    | 12.0    | 4.0    | 37,36       | 35,49          | 32,69           | 29,89           |

# Ball Nose End Mill Two Flutes with Toric Cut



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- 
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- 
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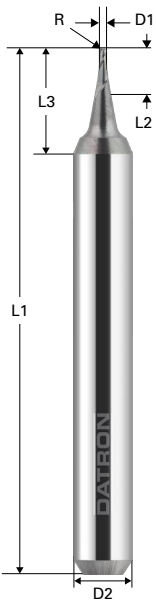


|           |        |         |
|-----------|--------|---------|
| Aluminium | Bronze | Plastic |
|           |        |         |
| Copper    | Brass  | Wood    |
|           |        |         |

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00782004 | 0.4     | 3.0     | 0.35    | 39.0    | 0.6     | 2.0     | 0.2    | 47,29       | 44,93              | 41,38                  | 37,83                |
| 00782005 | 0.5     | 3.0     | 0.45    | 39.0    | 0.75    | 4.0     | 0.25   | 47,29       | 44,93              | 41,38                  | 37,83                |
| 00782006 | 0.6     | 3.0     | 0.55    | 39.0    | 0.9     | 4.0     | 0.3    | 47,29       | 44,93              | 41,38                  | 37,83                |
| 00782008 | 0.8     | 3.0     | 0.75    | 39.0    | 1.2     | 6.0     | 0.4    | 53,28       | 50,62              | 46,62                  | 42,62                |
| 00782010 | 1.0     | 3.0     | 0.95    | 39.0    | 1.5     | 6.0     | 0.5    | 47,29       | 44,93              | 41,38                  | 37,83                |
| 00782011 | 1.0     | 3.0     | 0.95    | 39.0    | 1.5     | 9.0     | 0.5    | 53,28       | 50,62              | 46,62                  | 42,62                |
| 00782012 | 1.2     | 3.0     | 1.15    | 39.0    | 1.8     | 9.0     | 0.6    | 47,29       | 44,93              | 41,38                  | 37,83                |
| 00782015 | 1.5     | 3.0     | 1.45    | 39.0    | 2.2     | 9.0     | 0.75   | 59,15       | 56,19              | 51,76                  | 47,32                |
| 00782020 | 2.0     | 3.0     | 1.95    | 39.0    | 3.0     | 12.0    | 1.0    | 59,15       | 56,19              | 51,76                  | 47,32                |
| 0078502  | 2.0     | 6.0     | 1.8     | 75.0    | 5.0     | 20.0    | 1.0    | 33,75       | 32,06              | 29,53                  | 27,00                |
| 0078503  | 3.0     | 6.0     | 2.8     | 75.0    | 6.0     | 20.0    | 1.5    | 33,75       | 32,06              | 29,53                  | 27,00                |
| 0078504  | 4.0     | 6.0     | 3.8     | 75.0    | 8.0     | 20.0    | 2.0    | 33,75       | 32,06              | 29,53                  | 27,00                |
| 0078505  | 5.0     | 6.0     | 4.8     | 100.0   | 20.0    | 40.0    | 2.5    | 38,49       | 36,57              | 33,68                  | 30,79                |
| 0078506  | 6.0     | 6.0     | 5.8     | 100.0   | 20.0    | 40.0    | 3.0    | 38,49       | 36,57              | 33,68                  | 30,79                |
| 0078508  | 8.0     | 8.0     | 7.8     | 100.0   | 20.0    | 40.0    | 4.0    | 43,23       | 41,07              | 37,83                  | 34,58                |
| 0078510  | 10.0    | 10.0    | 9.8     | 100.0   | 20.0    | 40.0    | 5.0    | 56,32       | 53,50              | 49,28                  | 45,06                |
| 0078512  | 12.0    | 12.0    | 11.7    | 100.0   | 20.0    | 40.0    | 6.0    | 80,71       | 76,67              | 70,62                  | 64,57                |

DATRON

# Ball Nose End Mill Two Flutes with Coating (ALCRONA)



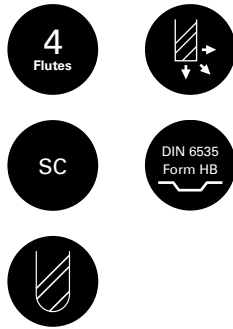
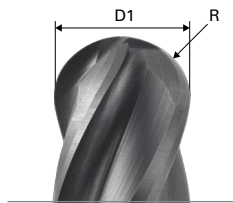
Steel



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 00684004 | 0.4     | 3.0     | 39.0    | 1.2     | 0.2    | 36,23       | 34,42          | 31,70           | 28,98           |
| 00684010 | 0.5     | 3.0     | 39.0    | 1.5     | 0.25   | 36,23       | 34,42          | 31,70           | 28,98           |
| 00684006 | 0.6     | 3.0     | 39.0    | 1.8     | 0.3    | 36,23       | 34,42          | 31,70           | 28,98           |
| 00684008 | 0.8     | 3.0     | 38.0    | 2.4     | 0.4    | 36,23       | 34,42          | 31,70           | 28,98           |
| 00684015 | 1.5     | 3.0     | 38.0    | 3.0     | 0.75   | 25,51       | 24,23          | 22,32           | 20,41           |
| 0068402  | 2.0     | 3.0     | 38.0    | 4.0     | 1.0    | 25,51       | 24,23          | 22,32           | 20,41           |
| 00684025 | 2.5     | 3.0     | 38.0    | 5.0     | 1.25   | 25,51       | 24,23          | 22,32           | 20,41           |
| 0068401  | 3.0     | 3.0     | 38.0    | 6.0     | 1.5    | 25,51       | 24,23          | 22,32           | 20,41           |

# Ball Nose End Mill Four Flutes with Coating (ALCRONA)



Steel



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078542  | 2.0     | 6.0     | 57.0    | 6.0     | 1.0    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078543  | 3.0     | 6.0     | 57.0    | 8.0     | 1.5    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078543A | 3.0     | 6.0     | 57.0    | 20.0    | 1.5    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078544  | 4.0     | 6.0     | 57.0    | 11.0    | 2.0    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078544A | 4.0     | 6.0     | 57.0    | 20.0    | 2.0    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078545  | 5.0     | 6.0     | 57.0    | 13.0    | 2.5    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078545A | 5.0     | 6.0     | 75.0    | 30.0    | 2.5    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078546  | 6.0     | 6.0     | 57.0    | 13.0    | 3.0    | 34,31       | 32,59          | 30,02           | 27,45           |
| 0078546A | 6.0     | 6.0     | 75.0    | 30.0    | 3.0    | 34,31       | 32,59          | 30,02           | 27,45           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078548  | 8.0     | 8.0     | 63.0    | 19.0    | 4.0    | 43,91       | 41,71          | 38,42           | 35,13           |
| 0078548A | 8.0     | 8.0     | 75.0    | 30.0    | 4.0    | 43,91       | 41,71          | 38,42           | 35,13           |

## 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078550  | 10.0    | 10.0    | 72.0    | 22.0    | 5.0    | 59,26       | 56,30          | 51,85           | 47,41           |
| 0078550A | 10.0    | 10.0    | 75.0    | 30.0    | 5.0    | 59,26       | 56,30          | 51,85           | 47,41           |

## 12 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078552  | 12.0    | 12.0    | 83.0    | 26.0    | 6.0    | 74,61       | 70,88          | 65,28           | 59,69           |
| 0078552A | 12.0    | 12.0    | 100.0   | 45.0    | 6.0    | 71,00       | 67,45          | 62,13           | 56,80           |



DATRON

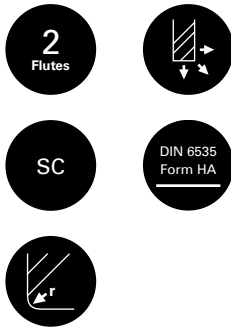
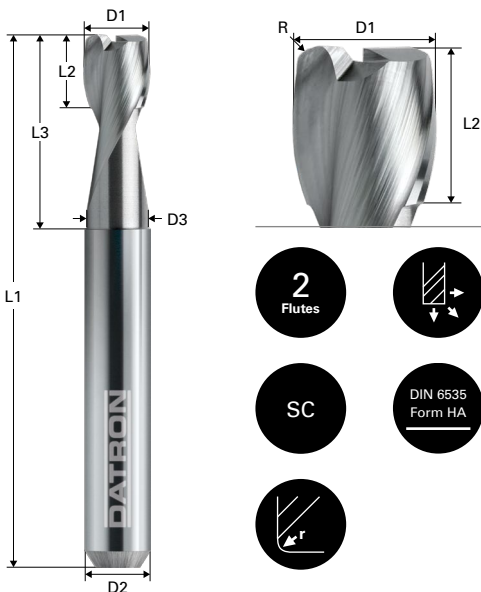
## Toric End Mills

|                                                                 |    |
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| Double Flute End Mill with Edge Radius and Coating (Triple-Cut) | 57 |
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| Four Flute End Mill with Double Radius and Coating (X.CEED)     | 59 |



DATRON

# Double Flute End Mill with Edge Radius



Aluminium



Brass



Copper



Wood



Plastic



## 6 mm Shank

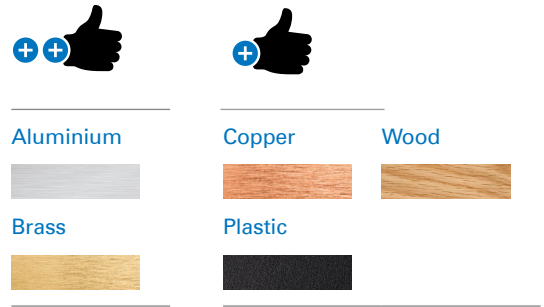
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0068460S | 6.0     | 6.0     |         | 50.0    | 6.0     |         | 0.5    | 34,77       | 33,03          | 30,42           | 27,82           |
| 0068460F | 6.0     | 6.0     | 5.8     | 58.0    | 7.0     | 21.0    | 1.0    | 34,77       | 33,03          | 30,42           | 27,82           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0068080K | 8.0     | 8.0     |         | 50.0    | 12.0    |         | 1.0    | 43,91       | 41,71          | 38,42           | 35,13           |
| 0078808R | 8.0     | 8.0     | 7.7     | 60.0    | 10.0    | 22.0    | 0.2    | 43,91       | 41,71          | 38,42           | 35,13           |
| 0068080  | 8.0     | 8.0     | 7.8     | 60.0    | 9.0     | 23.0    | 1.0    | 43,91       | 41,71          | 38,42           | 35,13           |



# Double Flute End Mill with Edge Radius and Coating (Triple-Cut)



### 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00781043 | 3.0     | 3.0     | 2.7     | 50.0    | 4.0     | 14.0    | 0.3    | 29,69       | 28,21              | 25,98                  | 23,75                |
| 00781063 | 3.0     | 3.0     | 2.7     | 50.0    | 4.0     | 14.0    | 1.0    | 29,69       | 28,21              | 25,98                  | 23,75                |

### 4 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00781044 | 4.0     | 4.0     | 3.7     | 50.0    | 5.0     | 16.0    | 0.4    | 30,81       | 29,27              | 26,96                  | 24,65                |
| 00781064 | 4.0     | 4.0     | 3.7     | 50.0    | 5.0     | 16.0    | 1.0    | 30,81       | 29,27              | 26,96                  | 24,65                |

### 5 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00781045 | 5.0     | 5.0     | 4.6     | 54.0    | 6.0     | 18.0    | 0.5    | 33,19       | 31,53              | 29,04                  | 26,55                |
| 00781065 | 5.0     | 5.0     | 4.6     | 54.0    | 6.0     | 18.0    | 1.0    | 33,19       | 31,53              | 29,04                  | 26,55                |

### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00781046 | 6.0     | 6.0     | 5.5     | 58.0    | 7.0     | 21.0    | 0.5    | 40,41       | 38,39              | 35,36                  | 32,33                |
| 00781066 | 6.0     | 6.0     | 5.5     | 58.0    | 7.0     | 21.0    | 1.0    | 40,41       | 38,39              | 35,36                  | 32,33                |

### 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00781048 | 8.0     | 8.0     | 7.4     | 63.0    | 9.0     | 27.0    | 0.5    | 50,91       | 48,36              | 44,55                  | 40,73                |
| 00781068 | 8.0     | 8.0     | 7.4     | 63.0    | 9.0     | 27.0    | 1.0    | 50,91       | 48,36              | 44,55                  | 40,73                |

### 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 00781050 | 10.0    | 10.0    | 9.2     | 72.0    | 11.0    | 32.0    | 0.5    | 66,37       | 63,05              | 58,07                  | 53,10                |
| 00781070 | 10.0    | 10.0    | 9.2     | 72.0    | 11.0    | 32.0    | 1.0    | 66,37       | 63,05              | 58,07                  | 53,10                |

DATRON

# Four Flute End Mill with Edge Radius and Coating (X.CEED)



Steel



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078620  | 2.0     | 6.0     | 1.8     | 50.0    | 4.0     | 12.0    | 0.2    | 42,22       | 40,11          | 36,94           | 33,78           |
| 0078620A | 2.0     | 6.0     | 1.8     | 50.0    | 4.0     | 16.0    | 0.2    | 47,86       | 45,47          | 41,88           | 38,29           |
| 0078623  | 3.0     | 6.0     | 2.7     | 50.0    | 4.0     | 14.0    | 0.3    | 42,22       | 40,11          | 36,94           | 33,78           |
| 0078623A | 3.0     | 6.0     | 2.7     | 50.0    | 4.0     | 18.0    | 0.3    | 46,50       | 44,18          | 40,69           | 37,20           |
| 0078624  | 4.0     | 6.0     | 3.7     | 50.0    | 5.0     | 16.0    | 0.4    | 42,22       | 40,11          | 36,94           | 33,78           |
| 0078625  | 5.0     | 6.0     | 4.6     | 54.0    | 6.0     | 18.0    | 0.5    | 42,22       | 40,11          | 36,94           | 33,78           |
| 0078625A | 5.0     | 6.0     | 4.6     | 54.0    | 6.0     | 18.0    | 1.0    | 42,22       | 40,11          | 36,94           | 33,78           |
| 0078626  | 6.0     | 6.0     | 5.5     | 57.0    | 7.0     | 21.0    | 0.5    | 46,96       | 44,61          | 41,09           | 37,57           |
| 0078626A | 6.0     | 6.0     | 5.5     | 57.0    | 7.0     | 21.0    | 1.0    | 46,96       | 44,61          | 41,09           | 37,57           |

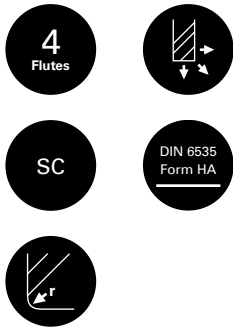
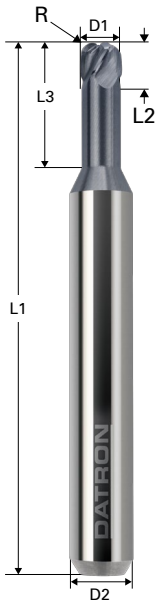
## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078628  | 8.0     | 8.0     | 7.4     | 63.0    | 9.0     | 27.0    | 0.5    | 58,81       | 55,87          | 51,46           | 47,05           |
| 0078628A | 8.0     | 8.0     | 7.4     | 63.0    | 9.0     | 27.0    | 1.0    | 58,81       | 55,87          | 51,46           | 47,05           |

## 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 0078630  | 10.0    | 10.0    | 9.2     | 72.0    | 11.0    | 32.0    | 0.5    | 70,66       | 67,13          | 61,83           | 56,53           |
| 0078630A | 10.0    | 10.0    | 9.2     | 72.0    | 11.0    | 32.0    | 1.0    | 70,66       | 67,13          | 61,83           | 56,53           |

# Four Flute End Mill with Double Radius and Coating (X.CEED)



Steel



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 00686903 | 3.0     | 6.0     | 50.0    | 1.0     | 0.8    | 76,64       | 72,81          | 67,06           | 61,31           |
| 00686904 | 4.0     | 6.0     | 50.0    | 1.0     | 0.8    | 76,64       | 72,81          | 67,06           | 61,31           |
| 00686906 | 6.0     | 6.0     | 50.0    | 1.0     | 0.8    | 76,64       | 72,81          | 67,06           | 61,31           |



DATRON

# Countersink Tools

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CountersinkTool 62

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CountersinkTool for Acrylic Glass 63

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CountersinkTool for PU Foam 64

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Milling CountersinkTool 65

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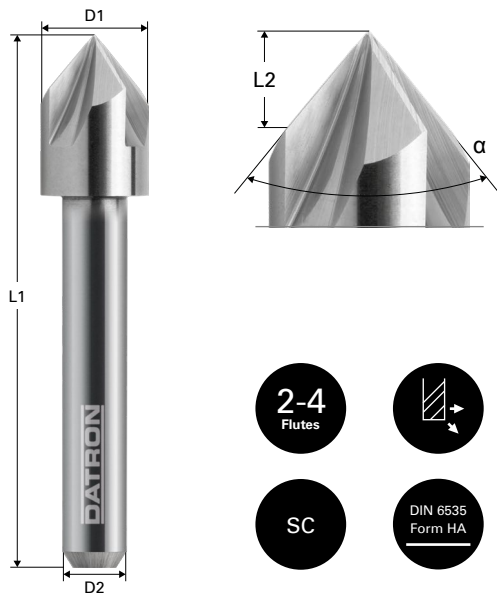
V-Slotting Mill 66

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DATRON

# Countersink Tool



Aluminium

Wood

Bronze



Plastic

Brass

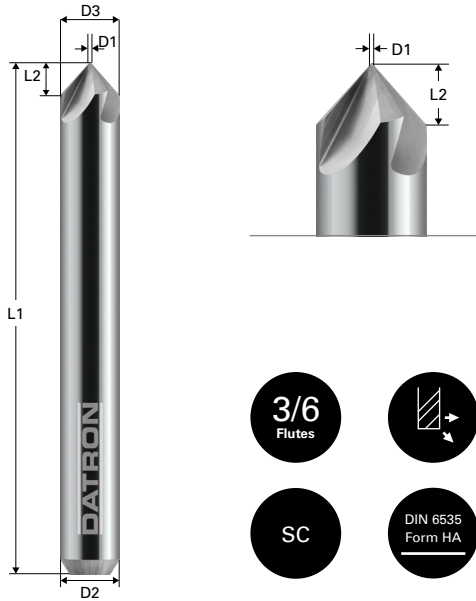


| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | Number of Flutes | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|--------------|------------------|-------------|--------------------|------------------------|----------------------|
| 0068478A | 3.0     | 3.0     | 40.0    | 2.5     | 60           | 2                | 28,56       | 27,13              | 24,99                  | 22,85                |
| 0068478  | 3.0     | 3.0     | 40.0    | 1.5     | 90           | 2                | 28,56       | 27,13              | 24,99                  | 22,85                |
| 0068479B | 6.0     | 6.0     | 50.0    | 8.2     | 40           | 3                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068480B | 6.0     | 6.0     | 50.0    | 5.1     | 60           | 4                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068479C | 6.0     | 6.0     | 50.0    | 4.2     | 70           | 3                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068479  | 6.0     | 6.0     | 50.0    | 3.0     | 90           | 3                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068479A | 6.0     | 6.0     | 50.0    | 1.7     | 120          | 4                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068479D | 6.0     | 6.0     | 50.0    | 1.1     | 140          | 3                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068479E | 6.0     | 6.0     | 50.0    | 1.2     | 160          | 3                | 33,30       | 31,64              | 29,14                  | 26,64                |
| 0068480  | 8.0     | 6.0     | 50.0    | 4.0     | 90           | 3                | 49,89       | 47,40              | 43,65                  | 39,91                |
| 0068480C | 8.0     | 6.0     | 50.0    | 3.3     | 100          | 4                | 49,89       | 47,40              | 43,65                  | 39,91                |
| 0068480A | 8.0     | 6.0     | 50.0    | 2.3     | 120          | 3                | 49,89       | 47,40              | 43,65                  | 39,91                |
| 0068483  | 10.0    | 6.0     | 50.0    | 5.0     | 90           | 3                | 71,34       | 67,77              | 62,42                  | 57,07                |
| 0068483A | 10.0    | 6.0     | 50.0    | 2.8     | 120          | 4                | 71,34       | 67,77              | 62,42                  | 57,07                |
| 0068483E | 12.0    | 6.0     | 50.0    | 3.4     | 120          | 4                | 109,49      | 104,02             | 95,80                  | 87,59                |
| 0068483D | 12.0    | 8.0     | 50.0    | 6.0     | 90           | 4                | 109,49      | 104,02             | 95,80                  | 87,59                |
| 0068483H | 14.0    | 8.0     | 50.0    | 7.0     | 90           | 4                | 117,50      | 111,63             | 102,81                 | 94,00                |
| 0068483B | 10.0    | 10.0    | 50.0    | 5.0     | 90           | 3                | 71,34       | 67,77              | 62,42                  | 57,07                |

DATRON

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | Number of Flutes | 1 Stk (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|--------------|------------------|-----------|--------------------|------------------------|----------------------|
| 0068480N | 8       | 8       | 50      | 4       | 90           | 3                | 47,52 €   | 45,14 €            | 41,58 €                | 38,02 €              |
| 0068483N | 10      | 8       | 50      | 5       | 90           | 3                | 67,94 €   | 64,54 €            | 59,45 €                | 54,35 €              |
| 0068483D | 12      | 8       | 50      | 4       | 90           | 4                | 109,94 €  | 104,44 €           | 96,20 €                | 87,95 €              |
| 0068483H | 14      | 8       | 50      | 7       | 90           | 4                | 117,50 €  | 111,63 €           | 102,81 €               | 94,00 €              |

# Countersink Tool for Acrylic Glass



Acrylic Glass

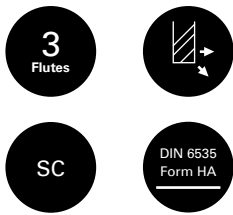
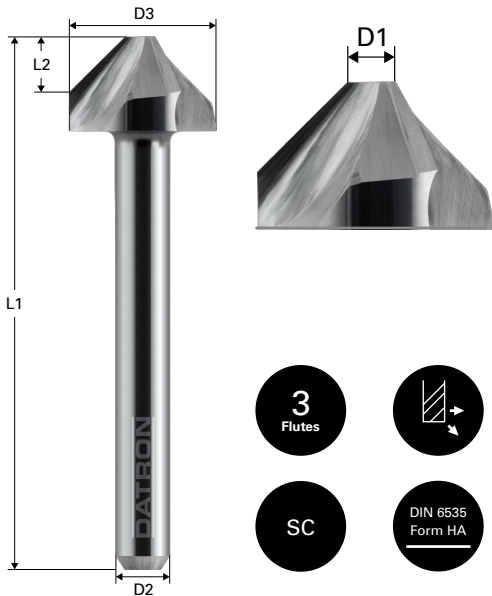
Plastic

## 6 mm Shank

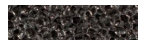
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | Number of Flutes | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|--------------|------------------|-------------|--------------------|------------------------|----------------------|
| 00685806 | 0.1     | 6.0     | 6.0     | 50.0    | 3.0     | 90           | 6                | 37,47       | 35,60              | 32,79                  | 29,98                |
| 00685808 | 0.1     | 6.0     | 8.0     | 50.0    | 4.0     | 90           | 6                | 56,32       | 53,50              | 49,28                  | 45,06                |
| 00685810 | 4.0     | 6.0     | 10.0    | 50.0    | 3.0     | 90           | 3                | 108,70      | 103,27             | 95,11                  | 86,96                |
| 00685812 | 4.0     | 6.0     | 12.0    | 50.0    | 4.0     | 90           | 3                | 121,34      | 115,27             | 106,17                 | 97,07                |
| 00685814 | 4.0     | 6.0     | 14.0    | 50.0    | 5.0     | 90           | 3                | 131,84      | 125,25             | 115,36                 | 105,47               |
| 00685816 | 4.0     | 6.0     | 16.0    | 50.0    | 6.0     | 90           | 3                | 168,75      | 160,31             | 147,66                 | 135,00               |

DATRON

# Countersink Tool for PU Foam



PU Foams



### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|--------------|-------------|--------------------|------------------------|----------------------|
| 0068485C | 4.0     | 6.0     | 10.0    | 50.0    | 3.0     | 90           | 108,70      | 103,27             | 95,11                  | 86,96                |
| 0068485D | 4.0     | 6.0     | 12.0    | 50.0    | 4.0     | 90           | 121,34      | 115,27             | 106,17                 | 97,07                |
| 0068485E | 4.0     | 6.0     | 14.0    | 50.0    | 5.0     | 90           | 131,84      | 125,25             | 115,36                 | 105,47               |
| 0068485F | 4.0     | 6.0     | 16.0    | 50.0    | 6.0     | 90           | 168,75      | 160,31             | 147,66                 | 135,00               |

## DATRON NEO

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|--------|-------------|--------------------|------------------------|----------------------|
| 0068485N | 4       | 8       | 14      | 50      | 5       | 45     | 137,49 €    | 130,62 €           | 120,30 €               | 109,99 €             |



# Milling Countersink Tool



Aluminium

Wood

Bronze



Plastic

Brass

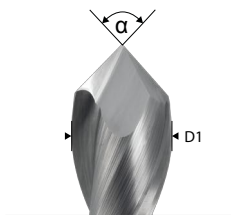
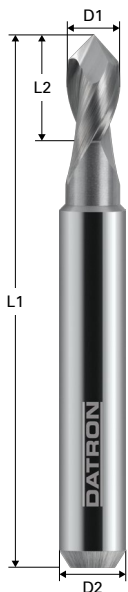


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | 1 Piece (€) | $\geq 5$ Pieces (€) -5% | $\geq 10$ Pieces (€) -12,5% | $\geq 25$ Pieces (€) -20% |
|----------|---------|---------|---------|---------|--------------|-------------|-------------------------|-----------------------------|---------------------------|
| 0068772D | 2.0     | 6.0     | 50.0    | 1.0     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068772E | 2.0     | 6.0     | 50.0    | 1.5     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068772  | 2.0     | 6.0     | 50.0    | 1.9     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068772F | 2.0     | 6.0     | 50.0    | 2.5     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068772A | 2.0     | 6.0     | 50.0    | 2.9     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068772G | 2.0     | 6.0     | 50.0    | 4.0     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068772B | 2.0     | 6.0     | 50.0    | 4.9     | 90           | 70,10       | 66,59                   | 61,34                       | 56,08                     |
| 0068773D | 3.0     | 6.0     | 50.0    | 1.0     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068773E | 3.0     | 6.0     | 50.0    | 1.5     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068773G | 3.0     | 6.0     | 50.0    | 2.0     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068773F | 3.0     | 6.0     | 50.0    | 2.5     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068773  | 3.0     | 6.0     | 50.0    | 2.9     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068773A | 3.0     | 6.0     | 50.0    | 3.9     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068773B | 3.0     | 6.0     | 50.0    | 4.9     | 90           | 65,35       | 62,08                   | 57,18                       | 52,28                     |
| 0068774D | 4.0     | 6.0     | 50.0    | 1.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068774E | 4.0     | 6.0     | 50.0    | 1.5     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068774G | 4.0     | 6.0     | 50.0    | 2.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068774F | 4.0     | 6.0     | 50.0    | 2.5     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068774  | 4.0     | 6.0     | 50.0    | 2.9     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068774A | 4.0     | 6.0     | 50.0    | 3.9     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068774B | 4.0     | 6.0     | 50.0    | 5.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775D | 5.0     | 6.0     | 50.0    | 1.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775E | 5.0     | 6.0     | 50.0    | 1.5     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775G | 5.0     | 6.0     | 50.0    | 2.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775F | 5.0     | 6.0     | 50.0    | 2.5     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775  | 5.0     | 6.0     | 50.0    | 3.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775A | 5.0     | 6.0     | 50.0    | 4.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |
| 0068775B | 5.0     | 6.0     | 50.0    | 5.0     | 90           | 62,87       | 59,73                   | 55,01                       | 50,30                     |

DATRON

# V-Slotting Mill



Aluminium

Wood

Bronze



Plastic

Brass



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068795A | 5.0     | 6.0     | 50.0    | 10.0    | 60    | 45,04       | 42,79          | 39,41           | 36,03           |
| 0068795  | 5.0     | 6.0     | 50.0    | 10.0    | 90    | 45,04       | 42,79          | 39,41           | 36,03           |
| 0068795B | 5.0     | 6.0     | 50.0    | 10.0    | 120   | 45,04       | 42,79          | 39,41           | 36,03           |

## 8 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068796A | 6.0     | 8.0     | 58.0    | 12.0    | 60    | 56,32       | 53,50          | 49,28           | 45,06           |
| 0068796  | 6.0     | 8.0     | 58.0    | 12.0    | 90    | 56,32       | 53,50          | 49,28           | 45,06           |
| 0068796B | 6.0     | 8.0     | 58.0    | 12.0    | 120   | 56,32       | 53,50          | 49,28           | 45,06           |

## 10 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068798A | 8.0     | 10.0    | 70.0    | 16.0    | 60    | 78,90       | 74,96          | 69,04           | 63,12           |
| 0068798  | 8.0     | 10.0    | 70.0    | 16.0    | 90    | 78,90       | 74,96          | 69,04           | 63,12           |
| 0068798B | 8.0     | 10.0    | 70.0    | 16.0    | 120   | 78,90       | 74,96          | 69,04           | 63,12           |

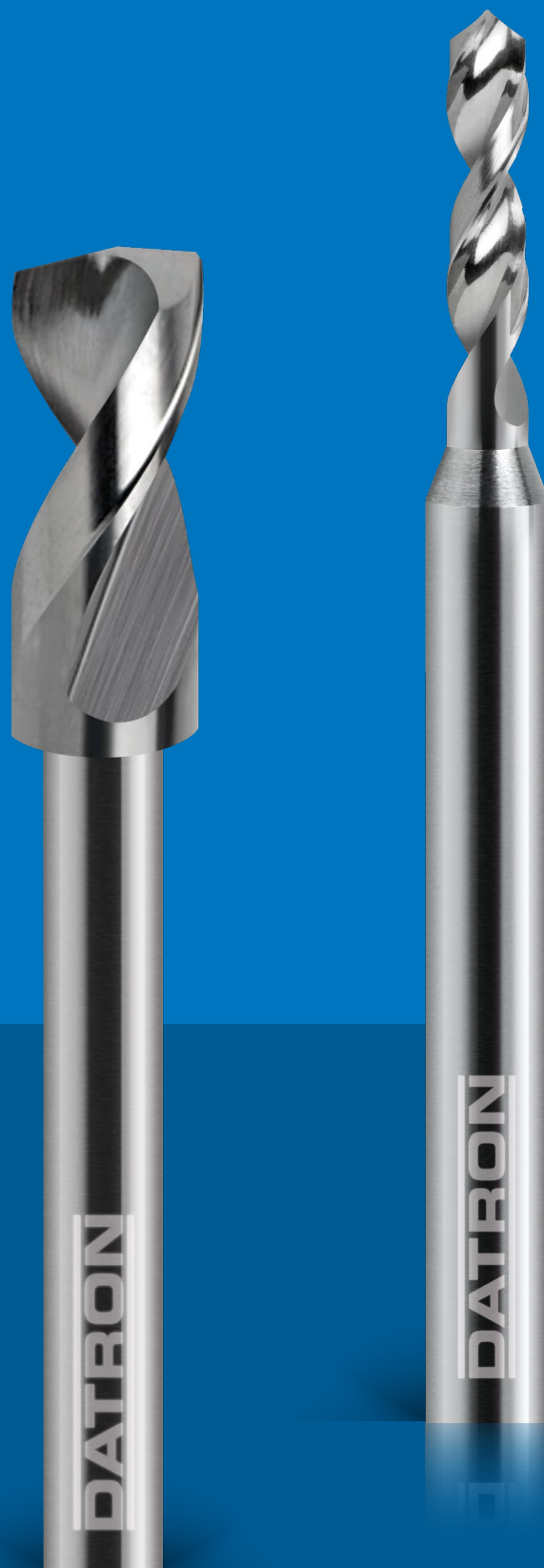
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DATRON

## Drills

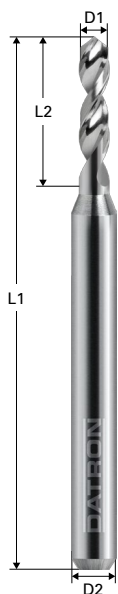
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|                   |    |
|-------------------|----|
| Drill, 3 mm Shank | 68 |
| Drill, 1/8" Shank | 70 |
| Drill, 6 mm Shank | 72 |



DATRON

# Drill 3 mm Shank



Aluminium



Copper



Bronze



Brass



Plastic



Steel



Wood



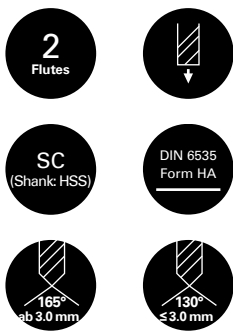
## 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 00682015 | 0.15    | 3.0     | 38.0    | 2.0     | 7,11        | 6,75           | 6,22            | 5,69            |
| 0068202  | 0.2     | 3.0     | 38.0    | 3.5     | 7,11        | 6,75           | 6,22            | 5,69            |
| 00682025 | 0.25    | 3.0     | 38.0    | 3.5     | 7,11        | 6,75           | 6,22            | 5,69            |
| 0068203  | 0.3     | 3.0     | 38.0    | 3.5     | 5,98        | 5,68           | 5,23            | 4,78            |
| 00682035 | 0.35    | 3.0     | 38.0    | 3.5     | 5,98        | 5,68           | 5,23            | 4,78            |
| 0068204  | 0.4     | 3.0     | 38.0    | 6.0     | 5,98        | 5,68           | 5,23            | 4,78            |
| 00682045 | 0.45    | 3.0     | 38.0    | 6.0     | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068205  | 0.5     | 3.0     | 38.0    | 6.0     | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682055 | 0.55    | 3.0     | 38.0    | 6.0     | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068206  | 0.6     | 3.0     | 38.0    | 6.5     | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682065 | 0.65    | 3.0     | 38.0    | 6.5     | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068207  | 0.7     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682075 | 0.75    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068208  | 0.8     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682085 | 0.85    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068209  | 0.9     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682095 | 0.95    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068210  | 1.0     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682105 | 1.05    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068211  | 1.1     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682115 | 1.15    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068212  | 1.2     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682125 | 1.25    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068213  | 1.3     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682135 | 1.35    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068214  | 1.4     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682145 | 1.45    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068215  | 1.5     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682155 | 1.55    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068216  | 1.6     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682165 | 1.65    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068217  | 1.7     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682175 | 1.75    | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068218  | 1.8     | 3.0     | 38.0    | 10.5    | 4,74        | 4,50           | 4,15            | 3,79            |

| Art. No. | D1<br>(mm) | D2<br>(mm) | L1<br>(mm) | L2<br>(mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|------------|------------|------------|------------|-------------|----------------|-----------------|-----------------|
|          |            |            |            |            |             | -5%            | -12,5%          | -20%            |
| 00682185 | 1.85       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068219  | 1.9        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682195 | 1.95       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068220  | 2.0        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682205 | 2.05       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068221  | 2.1        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682215 | 2.15       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068222  | 2.2        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682225 | 2.25       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068223  | 2.3        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682235 | 2.35       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068224  | 2.4        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682245 | 2.45       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068225  | 2.5        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682255 | 2.55       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068226  | 2.6        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682265 | 2.65       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068227  | 2.7        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682275 | 2.75       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068228  | 2.8        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682285 | 2.85       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068229  | 2.9        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 00682295 | 2.95       | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068230  | 3.0        | 3.0        | 38.0       | 10.5       | 4,74        | 4,50           | 4,15            | 3,79            |
| 0068231  | 3.1        | 3.0        | 38.0       | 12.0       | 12,30       | 11,69          | 10,76           | 9,84            |
| 0068232  | 3.2        | 3.0        | 38.0       | 12.0       | 12,30       | 11,69          | 10,76           | 9,84            |
| 0068233  | 3.3        | 3.0        | 38.0       | 12.0       | 12,30       | 11,69          | 10,76           | 9,84            |
| 0068234  | 3.4        | 3.0        | 38.0       | 12.0       | 12,30       | 11,69          | 10,76           | 9,84            |
| 0068235  | 3.5        | 3.0        | 38.0       | 12.0       | 12,30       | 11,69          | 10,76           | 9,84            |
| 0068236  | 3.6        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068237  | 3.7        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068238  | 3.8        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068239  | 3.9        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068240  | 4.0        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068241  | 4.1        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068242  | 4.2        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068243  | 4.3        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068244  | 4.4        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068245  | 4.5        | 3.0        | 38.0       | 12.0       | 14,56       | 13,83          | 12,74           | 11,65           |
| 0068246  | 4.6        | 3.0        | 38.0       | 12.0       | 16,93       | 16,08          | 14,81           | 13,54           |
| 0068247  | 4.7        | 3.0        | 38.0       | 12.0       | 16,93       | 16,08          | 14,81           | 13,54           |
| 0068248  | 4.8        | 3.0        | 38.0       | 12.0       | 16,93       | 16,08          | 14,81           | 13,54           |
| 0068249  | 4.9        | 3.0        | 38.0       | 12.0       | 16,93       | 16,08          | 14,81           | 13,54           |
| 0068250  | 5.0        | 3.0        | 38.0       | 12.0       | 16,93       | 16,08          | 14,81           | 13,54           |
| 0068251  | 5.1        | 3.0        | 38.0       | 12.0       | 18,51       | 17,58          | 16,20           | 14,81           |
| 0068252  | 5.2        | 3.0        | 38.0       | 12.0       | 18,51       | 17,58          | 16,20           | 14,81           |
| 0068253  | 5.3        | 3.0        | 38.0       | 12.0       | 18,51       | 17,58          | 16,20           | 14,81           |
| 0068254  | 5.4        | 3.0        | 38.0       | 12.0       | 18,51       | 17,58          | 16,20           | 14,81           |
| 0068255  | 5.5        | 3.0        | 38.0       | 12.0       | 18,51       | 17,58          | 16,20           | 14,81           |
| 0068256  | 5.6        | 3.0        | 38.0       | 12.0       | 20,54       | 19,51          | 17,97           | 16,43           |
| 0068257  | 5.7        | 3.0        | 38.0       | 12.0       | 20,54       | 19,51          | 17,97           | 16,43           |
| 0068258  | 5.8        | 3.0        | 38.0       | 12.0       | 20,54       | 19,51          | 17,97           | 16,43           |
| 0068259  | 5.9        | 3.0        | 38.0       | 12.0       | 20,54       | 19,51          | 17,97           | 16,43           |
| 0068260  | 6.0        | 3.0        | 38.0       | 12.0       | 20,54       | 19,51          | 17,97           | 16,43           |
| 0068261  | 6.1        | 3.0        | 38.0       | 12.0       | 22,01       | 20,91          | 19,26           | 17,61           |
| 0068262  | 6.2        | 3.0        | 38.0       | 12.0       | 22,01       | 20,91          | 19,26           | 17,61           |
| 0068263  | 6.3        | 3.0        | 38.0       | 12.0       | 22,01       | 20,91          | 19,26           | 17,61           |
| 0068264  | 6.4        | 3.0        | 38.0       | 12.0       | 22,01       | 20,91          | 19,26           | 17,61           |
| 0068265  | 6.5        | 3.0        | 38.0       | 12.0       | 22,01       | 20,91          | 19,26           | 17,61           |

DATRON

# Drill 1/8" Shank



Aluminium



Copper



Bronze



Brass



Plastic



Steel



Wood



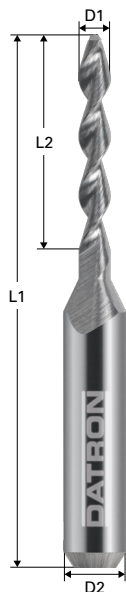
## 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068701  | 0.1     | 3.175   | 38.0    | 1.0     | 7,11        | 6,75           | 6,22            | 5,69            |
| 00687015 | 0.15    | 3.175   | 38.0    | 2.5     | 7,11        | 6,75           | 6,22            | 5,69            |
| 0068702  | 0.2     | 3.175   | 38.0    | 3.2     | 7,11        | 6,75           | 6,22            | 5,69            |
| 00687025 | 0.25    | 3.175   | 38.0    | 3.5     | 7,11        | 6,75           | 6,22            | 5,69            |
| 0068703  | 0.3     | 3.175   | 38.0    | 5.5     | 5,53        | 5,25           | 4,84            | 4,42            |
| 00687035 | 0.35    | 3.175   | 38.0    | 5.5     | 5,53        | 5,25           | 4,84            | 4,42            |
| 0068704  | 0.4     | 3.175   | 38.0    | 5.5     | 5,53        | 5,25           | 4,84            | 4,42            |
| 00687045 | 0.45    | 3.175   | 38.0    | 5.5     | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068705  | 0.5     | 3.175   | 38.0    | 5.5     | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687055 | 0.55    | 3.175   | 38.0    | 5.5     | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068706  | 0.6     | 3.175   | 38.0    | 7.0     | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687065 | 0.65    | 3.175   | 38.0    | 8.5     | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068707  | 0.7     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687075 | 0.75    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068708  | 0.8     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687085 | 0.85    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068709  | 0.9     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687095 | 0.95    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068710  | 1.0     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687105 | 1.05    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068711  | 1.1     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687115 | 1.15    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068712  | 1.2     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687125 | 1.25    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068713  | 1.3     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687135 | 1.35    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068714  | 1.4     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687145 | 1.45    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068715  | 1.5     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687155 | 1.55    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068716  | 1.6     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687165 | 1.65    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068717  | 1.7     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687175 | 1.75    | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068718  | 1.8     | 3.175   | 38.0    | 10.5    | 4,40        | 4,18           | 3,85            | 3,52            |

| Art. No. | D1<br>(mm) | D2<br>(mm) | L1<br>(mm) | L2<br>(mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|------------|------------|------------|------------|-------------|----------------|-----------------|-----------------|
|          |            |            |            |            |             | -5%            | -12,5%          | -20%            |
| 00687185 | 1.85       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068719  | 1.9        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687195 | 1.95       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068720  | 2.0        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687205 | 2.05       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068721  | 2.1        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687215 | 2.15       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068722  | 2.2        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687225 | 2.25       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068723  | 2.3        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687235 | 2.35       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068724  | 2.4        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687245 | 2.45       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068725  | 2.5        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068725X | 2.5        | 3.175      | 38.0       | 12.0       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687255 | 2.55       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068726  | 2.6        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687265 | 2.65       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068727  | 2.7        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687275 | 2.75       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068728  | 2.8        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687285 | 2.85       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068729  | 2.9        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068729X | 2.9        | 3.175      | 38.0       | 16.0       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687295 | 2.95       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068730  | 3.0        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 00687305 | 3.05       | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068731  | 3.1        | 3.175      | 38.0       | 10.5       | 4,40        | 4,18           | 3,85            | 3,52            |
| 0068732  | 3.2        | 3.175      | 38.0       | 12.0       | 9,14        | 8,68           | 8,00            | 7,31            |
| 0068733  | 3.3        | 3.175      | 38.0       | 12.0       | 9,14        | 8,68           | 8,00            | 7,31            |
| 0068734  | 3.4        | 3.175      | 38.0       | 12.0       | 9,14        | 8,68           | 8,00            | 7,31            |
| 0068735  | 3.5        | 3.175      | 38.0       | 12.0       | 9,14        | 8,68           | 8,00            | 7,31            |
| 0068736  | 3.6        | 3.175      | 38.0       | 12.0       | 10,27       | 9,76           | 8,99            | 8,22            |
| 0068737  | 3.7        | 3.175      | 38.0       | 12.0       | 10,27       | 9,76           | 8,99            | 8,22            |
| 0068738  | 3.8        | 3.175      | 38.0       | 12.0       | 10,27       | 9,76           | 8,99            | 8,22            |
| 0068739  | 3.9        | 3.175      | 38.0       | 12.0       | 10,27       | 9,76           | 8,99            | 8,22            |
| 0068740  | 4.0        | 3.175      | 38.0       | 12.0       | 10,27       | 9,76           | 8,99            | 8,22            |
| 0068741  | 4.1        | 3.175      | 38.0       | 12.0       | 10,95       | 10,40          | 9,58            | 8,76            |
| 0068742  | 4.2        | 3.175      | 38.0       | 12.0       | 10,95       | 10,40          | 9,58            | 8,76            |
| 0068743  | 4.3        | 3.175      | 38.0       | 12.0       | 10,95       | 10,40          | 9,58            | 8,76            |
| 0068744  | 4.4        | 3.175      | 38.0       | 12.0       | 10,95       | 10,40          | 9,58            | 8,76            |
| 0068745  | 4.5        | 3.175      | 38.0       | 12.0       | 10,95       | 10,40          | 9,58            | 8,76            |
| 0068746  | 4.6        | 3.175      | 38.0       | 12.0       | 11,40       | 10,83          | 9,98            | 9,12            |
| 0068747  | 4.7        | 3.175      | 38.0       | 12.0       | 11,40       | 10,83          | 9,98            | 9,12            |
| 0068748  | 4.8        | 3.175      | 38.0       | 12.0       | 11,40       | 10,83          | 9,98            | 9,12            |
| 0068749  | 4.9        | 3.175      | 38.0       | 12.0       | 11,40       | 10,83          | 9,98            | 9,12            |
| 0068750  | 5.0        | 3.175      | 38.0       | 12.0       | 11,40       | 10,83          | 9,98            | 9,12            |
| 0068751  | 5.1        | 3.175      | 38.0       | 12.0       | 12,53       | 11,90          | 10,96           | 10,02           |
| 0068752  | 5.2        | 3.175      | 38.0       | 12.0       | 12,53       | 11,90          | 10,96           | 10,02           |
| 0068753  | 5.3        | 3.175      | 38.0       | 12.0       | 12,53       | 11,90          | 10,96           | 10,02           |
| 0068754  | 5.4        | 3.175      | 38.0       | 12.0       | 12,53       | 11,90          | 10,96           | 10,02           |
| 0068755  | 5.5        | 3.175      | 38.0       | 12.0       | 12,53       | 11,90          | 10,96           | 10,02           |
| 0068756  | 5.6        | 3.175      | 38.0       | 12.0       | 13,66       | 12,98          | 11,95           | 10,93           |
| 0068757  | 5.7        | 3.175      | 38.0       | 12.0       | 13,66       | 12,98          | 11,95           | 10,93           |
| 0068758  | 5.8        | 3.175      | 38.0       | 12.0       | 13,66       | 12,98          | 11,95           | 10,93           |
| 0068759  | 5.9        | 3.175      | 38.0       | 12.0       | 13,66       | 12,98          | 11,95           | 10,93           |
| 0068760  | 6.0        | 3.175      | 38.0       | 12.0       | 13,66       | 12,98          | 11,95           | 10,93           |
| 0068761  | 6.1        | 3.175      | 38.0       | 12.0       | 16,03       | 15,23          | 14,03           | 12,82           |
| 0068762  | 6.2        | 3.175      | 38.0       | 12.0       | 16,03       | 15,23          | 14,03           | 12,82           |
| 0068763  | 6.3        | 3.175      | 38.0       | 12.0       | 16,03       | 15,23          | 14,03           | 12,82           |
| 0068764  | 6.4        | 3.175      | 38.0       | 12.0       | 16,03       | 15,23          | 14,03           | 12,82           |
| 0068765  | 6.5        | 3.175      | 38.0       | 12.0       | 16,03       | 15,23          | 14,03           | 12,82           |

DATRON

# Drill 6mm Shank



Aluminium



Copper



Bronze



Brass



Plastic



Wood



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |             | -5%            | -12,5%          | -20%            |
| 0068229X | 2.9     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068230L | 3.0     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068231L | 3.1     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068232L | 3.2     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068233L | 3.3     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068234L | 3.4     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068235L | 3.5     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068236L | 3.6     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068237L | 3.7     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068238L | 3.8     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068239L | 3.9     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068239X | 3.9     | 6.0     | 56.0    | 26.0    | 39,49       | 37,52          | 34,55           | 31,59           |
| 0068240L | 4.0     | 6.0     | 50.0    | 21.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068240X | 4.0     | 6.0     | 60.0    | 31.0    | 44,13       | 41,92          | 38,61           | 35,30           |
| 0068241L | 4.1     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068242L | 4.2     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068243L | 4.3     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068244L | 4.4     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068245L | 4.5     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068245X | 4.5     | 6.0     | 60.0    | 31.0    | 43,01       | 40,86          | 37,63           | 34,41           |
| 0068246L | 4.6     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068247L | 4.7     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068248L | 4.8     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068249L | 4.9     | 6.0     | 50.0    | 21.0    | 37,36       | 35,49          | 32,69           | 29,89           |
| 0068249X | 4.9     | 6.0     | 60.0    | 31.0    | 38,49       | 36,57          | 33,68           | 30,79           |
| 0068250L | 5.0     | 6.0     | 50.0    | 21.0    | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068250X | 5.0     | 6.0     | 60.0    | 31.0    | 41,88       | 39,79          | 36,65           | 33,50           |
| 0068251L | 5.1     | 6.0     | 50.0    | 21.0    | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068252L | 5.2     | 6.0     | 50.0    | 21.0    | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068253L | 5.3     | 6.0     | 50.0    | 21.0    | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068254L | 5.4     | 6.0     | 50.0    | 21.0    | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068255L | 5.5     | 6.0     | 50.0    | 21.0    | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068255X | 5.5     | 6.0     | 60.0    | 31.0    | 41,88       | 39,79          | 36,65           | 33,50           |



| Art. No. | D1<br>(mm) | D2<br>(mm) | L1<br>(mm) | L2<br>(mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|------------|------------|------------|------------|-------------|----------------|-----------------|-----------------|
|          |            |            |            |            |             | -5%            | -12,5%          | -20%            |
| 0068256L | 5.6        | 6.0        | 50.0       | 21.0       | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068257L | 5.7        | 6.0        | 50.0       | 21.0       | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068258L | 5.8        | 6.0        | 50.0       | 21.0       | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068259L | 5.9        | 6.0        | 50.0       | 21.0       | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068259X | 5.9        | 6.0        | 70.0       | 36.0       | 37,49       | 35,62          | 32,80           | 29,99           |
| 0068260L | 6.0        | 6.0        | 50.0       | 21.0       | 36,23       | 34,42          | 31,70           | 28,98           |
| 0068260X | 6.0        | 6.0        | 60.0       | 31.0       | 41,88       | 39,79          | 36,65           | 33,50           |



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DATRON

# Reamers

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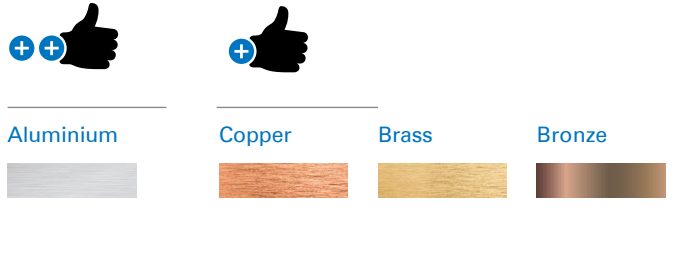
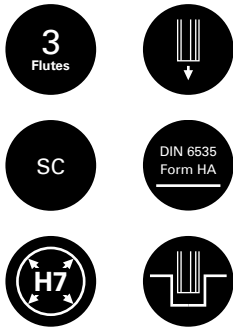
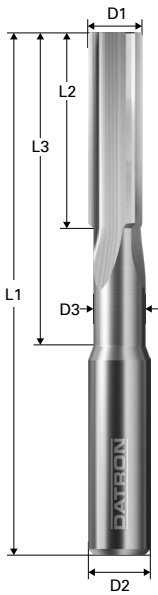
Reamers

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DATRON

# Reamers



## DATRON Reamers Standard Version

| Art. No. | Nominal D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|-----------------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068103E | 3H7             | 6       | 2,5     | 50      | 6       | 10      | 35,00 €     | 33,25 €            | 30,63 €                | 28,00 €              |
| 0068104E | 4H7             | 6       | 3,3     | 50      | 8       | 12      | 39,00 €     | 37,05 €            | 34,13 €                | 31,20 €              |
| 0068105E | 5H7             | 6       | 4,2     | 50      | 10      | 16      | 41,00 €     | 38,95 €            | 35,88 €                | 32,80 €              |
| 0068106E | 6H7             | 6       | 5       | 55      | 12      | 21      | 67,00 €     | 63,65 €            | 58,63 €                | 53,60 €              |
| 0068108E | 8H7             | 8       | 6,7     | 60      | 16      | 26      | 87,00 €     | 82,65 €            | 76,13 €                | 69,60 €              |
| 0068110E | 10H7            | 10      | 8,3     | 65      | 20      | 31      | 119,00 €    | 113,05 €           | 104,13 €               | 95,20 €              |
| 0068112E | 12H7            | 12      | 10      | 70      | 24      | 36      | 153,00 €    | 145,35 €           | 133,88 €               | 122,40 €             |

## DATRON Reamers Long Version

| Art. No. | Nominal D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|-----------------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068103L | 3H7             | 6       | 2,5     | 50      | 9       | 16      | 40,00 €     | 38,00 €            | 35,00 €                | 32,00 €              |
| 0068104L | 4H7             | 6       | 3,3     | 55      | 12      | 21      | 45,00 €     | 42,75 €            | 39,38 €                | 36,00 €              |
| 0068105L | 5H7             | 6       | 4,2     | 60      | 16      | 26      | 51,00 €     | 48,45 €            | 44,63 €                | 40,80 €              |
| 0068106L | 6H7             | 6       | 5       | 65      | 21      | 31      | 81,00 €     | 76,95 €            | 70,88 €                | 64,80 €              |
| 0068108L | 8H7             | 8       | 6,7     | 75      | 26      | 41      | 104,00 €    | 98,80 €            | 91,00 €                | 83,20 €              |
| 0068110L | 10H7            | 10      | 8,3     | 85      | 31      | 51      | 138,00 €    | 131,10 €           | 120,75 €               | 110,40 €             |
| 0068112L | 12H7            | 12      | 10      | 105     | 36      | 71      | 199,00 €    | 189,05 €           | 174,13 €               | 159,20 €             |

## DATRON NEO

| Art. No. | Nominal D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|-----------------|---------|---------|---------|---------|---------|-------------|--------------------|------------------------|----------------------|
| 0068103N | 3H7             | 8       | 2,5     | 50      | 6       | 10      | 39,00 €     | 37,05 €            | 34,13 €                | 31,20 €              |
| 0068104N | 4H7             | 8       | 3,3     | 50      | 8       | 12      | 43,00 €     | 40,85 €            | 37,63 €                | 34,40 €              |
| 0068105N | 5H7             | 8       | 4,2     | 50      | 10      | 16      | 46,00 €     | 43,70 €            | 40,25 €                | 36,80 €              |
| 0068106N | 6H7             | 8       | 5       | 55      | 12      | 21      | 52,00 €     | 49,40 €            | 45,50 €                | 41,60 €              |
| 0068108E | 8H7             | 8       | 6,7     | 60      | 16      | 26      | 87,00 €     | 82,65 €            | 76,13 €                | 69,60 €              |

A chamfer must be made on the core hole to prevent the tool from swinging open.

DATRON

# Thread Mills

|                                      |    |
|--------------------------------------|----|
| Thread Mill Parameters Tool Database | 78 |
| Thread Milling Tool                  | 80 |
| Multi Thread Milling Tool            | 81 |
| Milling Thread Mill                  | 82 |
| Thread Mill                          | 83 |



DATRON

## Thread Milling Tools Parameters Tool Database

| Art. No.  | RPM    | Feed | H/8   | Nominal D1 | Actual D1 | D3    | c  | W/R | L2   | Usable Length | Core hole |
|-----------|--------|------|-------|------------|-----------|-------|----|-----|------|---------------|-----------|
| 00680010E | 40.000 | 150  | 0.027 | 0.720      | 0.750     | 0.320 | 40 | 60° | 0.13 | 3.00          | 0.75      |
| 00680011E | 40.000 | 150  | 0.027 | 0.825      | 0.850     | 0.425 | 40 | 60° | 0.13 | 3.00          | 0.85      |
| 00680012E | 40.000 | 150  | 0.027 | 0.840      | 0.880     | 0.440 | 40 | 60° | 0.13 | 3.00          | 0.95      |
| 00680014E | 40.000 | 200  | 0.032 | 0.980      | 0.990     | 0.530 | 40 | 60° | 0.15 | 4.00          | 1.10      |
| 00680016E | 40.000 | 200  | 0.038 | 1.120      | 1.150     | 0.610 | 40 | 60° | 0.17 | 4.00          | 1.30      |
| 00680018E | 40.000 | 250  | 0.038 | 1.260      | 1.300     | 0.750 | 40 | 60° | 0.17 | 4.00          | 1.50      |
| 00680020E | 39.000 | 250  | 0.043 | 1.400      | 1.440     | 0.830 | 40 | 60° | 0.19 | 6.00          | 1.60      |
| 00680022E | 39.000 | 300  | 0.049 | 1.540      | 1.600     | 0.910 | 40 | 60° | 0.21 | 6.00          | 1.80      |
| 00680025E | 39.000 | 300  | 0.049 | 1.750      | 1.800     | 1.120 | 40 | 60° | 0.20 | 6.00          | 2.10      |
| 00680030E | 38.000 | 350  | 0.054 | 2.100      | 2.180     | 1.310 | 40 | 60° | 0.26 | 8.00          | 2.50      |
| 00680035E | 38.000 | 350  | 0.065 | 2.450      | 2.500     | 1.550 | 40 | 60° | 0.29 | 8.00          | 2.90      |
| 00680040E | 37.000 | 400  | 0.076 | 2.800      | 2.900     | 1.800 | 40 | 60° | 0.33 | 11.00         | 3.30      |
| 00680045E | 37.000 | 400  | 0.081 | 3.150      | 3.200     | 2.100 | 40 | 60° | 0.34 | 10.00         | 3.70      |
| 00680050E | 36.000 | 500  | 0.087 | 3.500      | 3.630     | 2.400 | 40 | 60° | 0.36 | 10.00         | 4.20      |
| 00680060E | 35.000 | 600  | 0.108 | 4.200      | 4.380     | 2.900 | 40 | 60° | 0.43 | 12.00         | 5.00      |
| 00680070E | 35.000 | 650  | 0.108 | 4.900      | 5.050     | 3.600 | 40 | 60° | 0.43 | 14.00         | 6.00      |
| 00680080E | 34.000 | 700  | 0.135 | 5.600      | 5.810     | 4.050 | 40 | 60° | 0.51 | 16.00         | 6.80      |
| 00680100E | 32.000 | 800  | 0.162 | 7.000      | 7.260     | 5.200 | 40 | 60° | 0.57 | 21.00         | 8.50      |
| 00680120E | 32.000 | 850  | 0.189 | 8.400      | 8.700     | 6.350 | 40 | 60° | 0.69 | 26.00         | 10.20     |

The specified actual values are for orientation and may deviate under different conditions.

DATRON

## Multi Thread Mill Parameters Tool Database

| Art. No.  | Nominal Diameter (mm) | Actual Diameter (mm) | RPM (1/min) | c  | D3 (mm) | W/R (°) | L2 (mm) |
|-----------|-----------------------|----------------------|-------------|----|---------|---------|---------|
| 0068418/L | 0.80                  | 0.80                 | 35.000      | 40 | 0.49    | 60      | 0.09    |
| 0068418S  | 0.95                  | 0.95                 | 35.000      | 40 | 0.65    | 60      | 0.09    |
| 0068419   | 1.4                   | 1.4                  | 35.000      | 40 | 0.8     | 60      | 0.1     |
| 0068419L  | 1.4                   | 1.4                  | 30.000      | 40 | 0.8     | 60      | 0.1     |
| 0068419X  | 1.4                   | 1.4                  | 32.000      | 40 | 0.8     | 60      | 0.1     |
| 0068420   | 2.0                   | 2.0                  | 35.000      | 40 | 1.0     | 60      | 0.2     |
| 0068420L  | 2.0                   | 2.0                  | 30.000      | 40 | 1.0     | 60      | 0.2     |
| 0068420X  | 2.0                   | 2.0                  | 32.000      | 40 | 1.0     | 60      | 0.2     |
| 0068450   | 6.0                   | 6.0                  | 25.000      | 40 | 1.9     | 55      | 0.7     |
| 0068450A  | 8.0                   | 8.0                  | 25.000      | 40 | 3.0     | 55      | 1.55    |
| 0068451   | 4.0                   | 4.08                 | 25.000      | 40 | 1.97    | 60      | 0.5     |
| 0068451A  | 8.0                   | 8.0                  | 25.000      | 40 | 3.0     | 60      | 1.6     |
| 0068451L  | 4.0                   | 4.08                 | 22.000      | 40 | 1.97    | 60      | 0.5     |
| 0068451X  | 4.0                   | 4.08                 | 24.000      | 40 | 1.97    | 60      | 0.5     |
| 0068452   | 6.0                   | 5.95                 | 25.000      | 40 | 2.98    | 80      | 1.3     |

\* The parameters of the multi thread milling tools are only valid for HSC Pro and CNC VX.X.  
The parameters are not required for the DATRON next control system.

## Milling Thread Mill Parameters Tool Database

| Art. No. | Nominal Diameter (mm) | Actual Diameter (mm) | RPM (1/min) | c  | D3 (mm) | W/R (°) | L2 (mm) |
|----------|-----------------------|----------------------|-------------|----|---------|---------|---------|
| 0068419A | 2.0                   | 2.0                  | 45.000      | 40 | 1.34    | 60      | 0.2     |
| 0068420A | 3.0                   | 3.0                  | 40.000      | 40 | 1.97    | 60      | 0.3     |
| 0046454  | 6.0                   | 5.95                 | 33.000      | 40 | 4.14    | 80      | 1.2     |
| 0068454A | 6.0                   | 5.95                 | 33.000      | 40 | 2.75    | 60      | 1.2     |
| 0068456  | 4.8                   | 4.6                  | 25.000      | 40 | 3.35    | 60      | 0.5     |
| 0068457  | 6.0                   | 5.95                 | 25.000      | 40 | 4.0     | 60      | 0.5     |
| 0068458  | 8.0                   | 7.95                 | 25.000      | 40 | 5.4     | 60      | 0.5     |

\* The parameters of the milling thread mills are only valid for HSC Pro and CNC VX.X.  
The parameters are not required for the DATRON next control system.

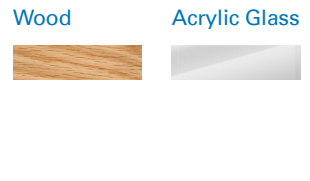
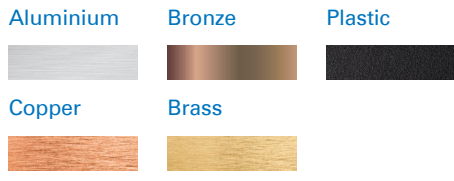
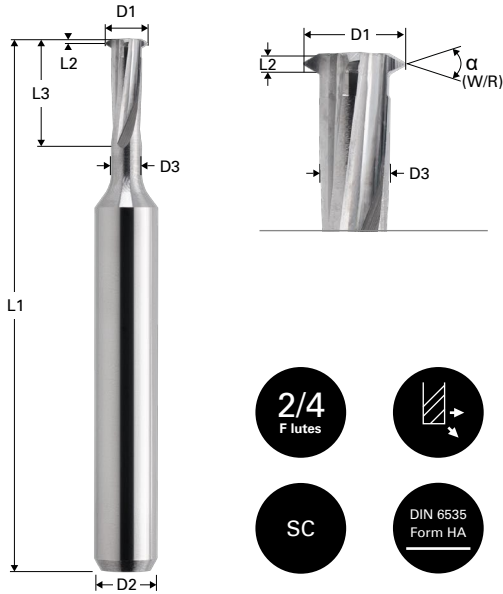
## Thread Mill Parameters Tool Database

| Art. No. | Nominal Diameter (mm) | Actual Diameter (mm) | RPM (1/min) | c  | D3 (mm) | W/R (°) | L2 (mm) |
|----------|-----------------------|----------------------|-------------|----|---------|---------|---------|
| 00684503 | 2.3                   | 2.3                  | 21.200      | M3 | 0       | 60      | 0       |
| 00684544 | 3.0                   | 2.98                 | 14.300      | M4 | 0       | 60      | 0       |
| 00684555 | 3.8                   | 3.72                 | 12.800      | M5 | 0       | 60      | 0       |
| 00684566 | 4.5                   | 4.48                 | 10.850      | M6 | 0       | 60      | 0       |
| 00684568 | 6.1                   | 6.0                  | 8.000       | M8 | 0       | 60      | 0       |

\* The parameters of the thread mills are only valid for HSC Pro and CNC VX.X.  
The parameters are not required for the DATRON next control system.

DATRON

# Thread Milling Tool



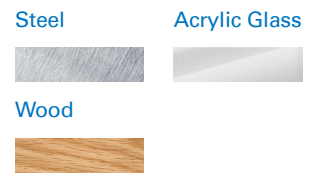
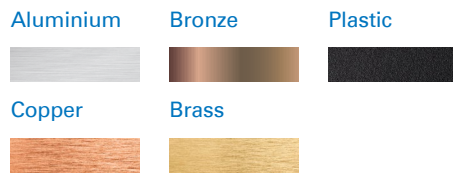
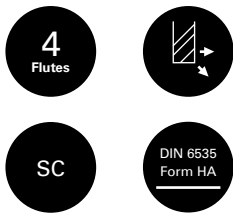
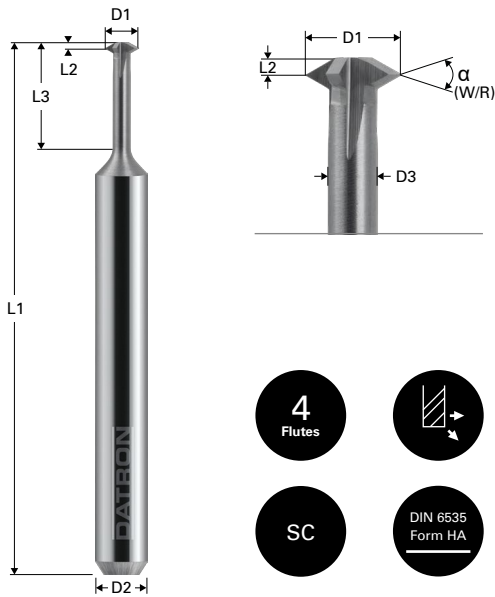
## Thread Milling Tool,

| Art. No.  | Thread (M) | D1 (mm) | D2 (mm) | D3* (mm) | L1 (mm) | L2 (mm) | L3 (mm) | W ° | Number of Flutes | Pitch S | Core hole Ø | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|------------|---------|---------|----------|---------|---------|---------|-----|------------------|---------|-------------|-------------|--------------------|------------------------|----------------------|
| 00680010E | M 1        | 0.720   | 3       | 0.320    | 40      | 0.13    | 3       | 60  | 2                | 0.25    | 0.75        | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680011E | M 1.1      | 0.825   | 3       | 0.425    | 40      | 0.13    | 3       | 60  | 2                | 0.25    | 0.85        | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680012E | M 1.2      | 0.840   | 3       | 0.440    | 40      | 0.13    | 3       | 60  | 2                | 0.25    | 0.95        | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680014E | M 1.4      | 0.980   | 3       | 0.530    | 40      | 0.15    | 4       | 60  | 2                | 0.3     | 1.1         | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680016E | M 1.6      | 1.120   | 3       | 0.610    | 40      | 0.17    | 4       | 60  | 2                | 0.35    | 1.3         | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680018E | M 1.8      | 1.260   | 3       | 0.750    | 40      | 0.17    | 4       | 60  | 2                | 0.35    | 1.5         | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680020E | M 2        | 1.400   | 3       | 0.830    | 40      | 0.19    | 6       | 60  | 2                | 0.4     | 1.6         | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680022E | M 2.2      | 1.540   | 3       | 0.910    | 40      | 0.21    | 6       | 60  | 2                | 0.45    | 1.8         | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680025E | M 2.5      | 1.750   | 3       | 1.120    | 40      | 0.2     | 6       | 60  | 4                | 0.45    | 2.1         | 49,50 €     | 47,03 €            | 43,31 €                | 39,60 €              |
| 00680030E | M 3        | 2.100   | 6       | 1.310    | 50      | 0.26    | 8       | 60  | 4                | 0.5     | 2.5         | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680035E | M 3.5      | 2.450   | 6       | 1.550    | 50      | 0.29    | 8       | 60  | 4                | 0.6     | 2.9         | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680040E | M 4        | 2,800   | 6       | 1.800    | 50      | 0.33    | 11      | 60  | 4                | 0.7     | 3.3         | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680045E | M 4.5      | 3.150   | 6       | 2.100    | 50      | 0.34    | 10      | 60  | 4                | 0.75    | 3.7         | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680050E | M 5        | 3.500   | 6       | 2.400    | 50      | 0.36    | 10      | 60  | 4                | 0.8     | 4.2         | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680060E | M 6        | 4.200   | 6       | 2.900    | 50      | 0.43    | 12      | 60  | 4                | 1       | 5           | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680070E | M 7        | 4.900   | 6       | 3.600    | 54      | 0.43    | 14      | 60  | 4                | 1       | 6           | 53,00 €     | 50,35 €            | 46,38 €                | 42,40 €              |
| 00680080E | M 8        | 5.600   | 6       | 4.050    | 58      | 0.51    | 16      | 60  | 4                | 1.25    | 6.8         | 66,75 €     | 63,41 €            | 58,41 €                | 53,40 €              |
| 00680100E | M 10       | 7.000   | 8       | 5.200    | 60      | 0.57    | 21      | 60  | 4                | 1.5     | 8.5         | 66,75 €     | 63,41 €            | 58,41 €                | 53,40 €              |
| 00680120E | M 12       | 8,400   | 10      | 6,350    | 66      | 0,69    | 26      | 60  | 4                | 1,75    | 10,2        | 73,75 €     | 70,06 €            | 64,53 €                | 59,00 €              |

\* For HSC pro and CNC VX.X, the D3 information must be entered at D2.



# Multi Thread Milling Tool



## 3 mm Shank

| Art. No. | Thread       | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | α (°) | Price (€) |                  |                      |                    |
|----------|--------------|---------|---------|---------|---------|---------|---------|-------|-----------|------------------|----------------------|--------------------|
|          |              |         |         |         |         |         |         |       | 1 Piece   | ≥ 5 Pieces (-5%) | ≥ 10 Pieces (-12,5%) | ≥ 25 Pieces (-20%) |
| 0068418  | M1.0 - M 1.2 | 0.8     | 3.0     | 0.49    | 40.0    | 0.09    | 3.0     | 60    | 96,17     | 91,36            | 84,15                | 76,94              |
| 0068418L | M1.0 - M 1.2 | 0.8     | 3.0     | 0.49    | 40.0    | 0.09    | 6.0     | 60    | 96,17     | 91,36            | 84,15                | 76,94              |
| 0068418S | M1.4         | 0.95    | 3.0     | 0.49    | 40.0    | 0.09    | 3.0     | 60    | 107,80    | 102,41           | 94,33                | 86,24              |
| 0068419  | M1.6 - M2.5  | 1.4     | 3.0     | 0.9     | 40.0    | 0.1     | 6.0     | 60    | 57,57     | 54,69            | 50,37                | 46,06              |
| 0068419L | M1.6 - M2.5  | 1.4     | 3.0     | 0.9     | 40.0    | 0.1     | 10.0    | 60    | 62,31     | 59,19            | 54,52                | 49,85              |
| 0068419X | M1.6 - M2.5  | 1.4     | 3.0     | 0.9     | 60.0    | 0.1     | 6.0     | 60    | 117,50    | 111,63           | 102,81               | 94,00              |
| 0068420  | M2.5 - M4    | 2.0     | 3.0     | 1.0     | 40.0    | 0.2     | 8.0     | 60    | 57,57     | 54,69            | 50,37                | 46,06              |
| 0068420L | M2.5 - M4    | 2.0     | 3.0     | 1.0     | 40.0    | 0.2     | 12.0    | 60    | 62,31     | 59,19            | 54,52                | 49,85              |
| 0068420X | M2.5 - M4    | 2.0     | 3.0     | 1.0     | 50.0    | 0.2     | 8.0     | 60    | 112,76    | 107,12           | 98,67                | 90,21              |

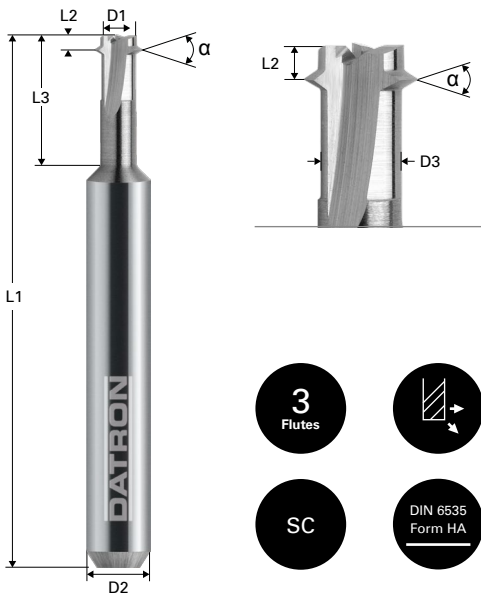
## 6 mm Shank

| Art. No. | Thread           | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | α (°) | Price (€) |                  |                      |                    |
|----------|------------------|---------|---------|---------|---------|---------|---------|-------|-----------|------------------|----------------------|--------------------|
|          |                  |         |         |         |         |         |         |       | 1 Piece   | ≥ 5 Pieces (-5%) | ≥ 10 Pieces (-12,5%) | ≥ 25 Pieces (-20%) |
| 0068451  | M5 - M10         | 4.0     | 6.0     | 1.0     | 50.0    | 0.5     | 12.0    | 60    | 64,79     | 61,55            | 56,69                | 51,83              |
| 0068451L | M5 - M10         | 4.0     | 6.0     | 2.0     | 50.0    | 0.5     | 16.0    | 60    | 70,66     | 67,13            | 61,83                | 56,53              |
| 0068451X | M5 - M10         | 4.0     | 6.0     | 2.0     | 58.0    | 0.5     | 30.0    | 60    | 117,50    | 111,63           | 102,81               | 94,00              |
| 0068450  | Whitworth < 1/2" | 6.0     | 6.0     | 3.0     | 50.0    | 0.7     | 12.0    | 55    | 70,10     | 66,59            | 61,34                | 56,08              |
| 0068452  | PG7 - PG48       | 6.0     | 6.0     | 3.0     | 50.0    | 1.3     | 12.0    | 80    | 64,79     | 61,55            | 56,69                | 51,83              |
| 0068451A | M10 - M36        | 8.0     | 6.0     | 3.0     | 50.0    | 1.6     | 12.0    | 60    | 91,43     | 86,86            | 80,00                | 73,14              |
| 0068450A | Whitworth < 1/2" | 8.0     | 6.0     | 3.0     | 50.0    | 1.55    | 12.0    | 55    | 91,43     | 86,86            | 80,00                | 73,14              |

\* For HSC pro and CNC VX.X, the D3 information must be entered at D2.

DATRON

# Milling Thread Mill



Aluminium

Plastic

Copper



Brass

Wood



## 3 mm Shank

| Art. No. | Thread    | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | $\alpha$ (°) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|-----------|---------|---------|---------|---------|---------|---------|--------------|-------------|--------------------|------------------------|----------------------|
| 0068419A | M2.5 - M3 | 2.0     | 3.0     | 1.5     | 40.0    | 1.0     | 8.5     | 60           | 73,48       | 69,81              | 64,30                  | 58,78                |
| 0068420A | M4 - M5   | 3.0     | 3.0     | 2.2     | 40.0    | 1.0     | 10.0    | 60           | 73,48       | 69,81              | 64,30                  | 58,78                |

## 6 mm Shank

| Art. No. | Thread            | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | $\alpha$ (°) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|-------------------|---------|---------|---------|---------|---------|---------|--------------|-------------|--------------------|------------------------|----------------------|
| 0068456  | M6                | 3.6     | 6.0     | 3.4     | 50.0    | 1.0     | 12.0    | 60           | 79,46       | 75,49              | 69,53                  | 63,57                |
| 0068457  | M8 - M10          | 4.2     | 6.0     | 4.0     | 50.0    | 1.5     | 12.0    | 60           | 79,46       | 75,49              | 69,53                  | 63,57                |
| 0068454A | met. cable thread | 4.2     | 6.0     | 4.0     | 50.0    | 2.0     | 12.0    | 60           | 73,48       | 69,81              | 64,30                  | 58,78                |
| 0068454  | PG7 - PG48        | 4.4     | 6.0     | 4.2     | 50.0    | 2.0     | 12.0    | 80           | 58,13       | 55,22              | 50,86                  | 46,50                |
| 0068458  | M12 - M16         | 5.6     | 6.0     | 5.4     | 50.0    | 1.5     | 12.0    | 60           | 85,33       | 81,06              | 74,66                  | 68,26                |

# Thread Mill



Aluminium Plastic



Brass



## 6 mm Shank

| Art. No. | Thread | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|--------|---------|---------|---------|---------|--------------|-------------|--------------------|------------------------|----------------------|
| 00684503 | M3     | 2.3     | 6.0     | 50.0    | 8.0     | 60           | 131,73      | 125,14             | 115,26                 | 105,38               |
| 00684504 | M4     | 3.0     | 6.0     | 50.0    | 8.0     | 60           | 131,73      | 125,14             | 115,26                 | 105,38               |
| 00684544 | M4     | 3.0     | 6.0     | 50.0    | 12.0    | 60           | 136,47      | 129,65             | 119,41                 | 109,18               |
| 00684505 | M5     | 3.8     | 6.0     | 50.0    | 12.0    | 60           | 136,47      | 129,65             | 119,41                 | 109,18               |
| 00684555 | M5     | 3.8     | 6.0     | 50.0    | 16.0    | 60           | 139,40      | 132,43             | 121,98                 | 111,52               |

## 8 mm Shank

| Art. No. | Thread | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|--------|---------|---------|---------|---------|--------------|-------------|--------------------|------------------------|----------------------|
| 00684506 | M6     | 4.5     | 8.0     | 50.0    | 12.0    | 60           | 140,08      | 133,08             | 122,57                 | 112,06               |
| 00684566 | M6     | 4.5     | 8.0     | 50.0    | 16.0    | 60           | 143,58      | 136,40             | 125,63                 | 114,86               |

## 10 mm Shank

| Art. No. | Thread | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | $\alpha$ (°) | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|--------|---------|---------|---------|---------|--------------|-------------|--------------------|------------------------|----------------------|
| 00684508 | M8     | 6.0     | 10.0    | 50.0    | 12.0    | 60           | 148,32      | 140,90             | 129,78                 | 118,66               |
| 00684588 | M8     | 6.0     | 10.0    | 50.0    | 16.0    | 60           | 160,17      | 152,16             | 140,15                 | 128,14               |



DATRON

## External Radius End Mills

External Radius End Mill 86

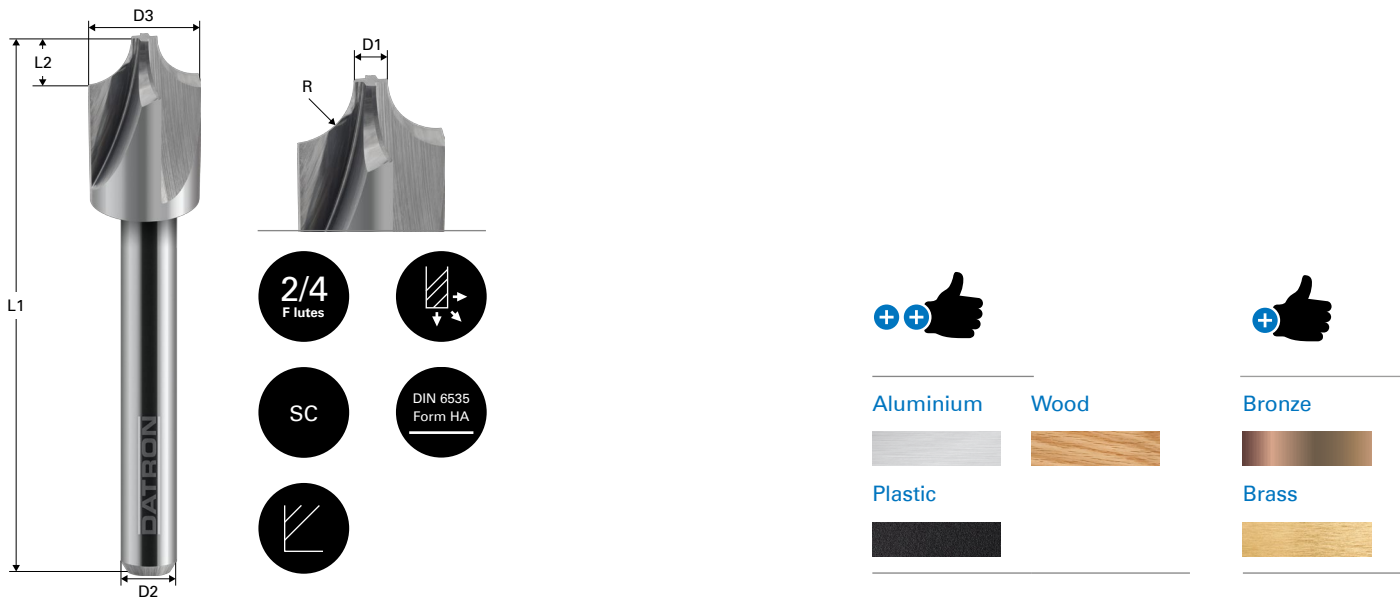
External Radius End Mill, Polished  
for Acrylic Glass 87

Deburring End Mill, Two Flutes 88



DATRON

# External Radius End Mill



### 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | Number of Flutes | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|--------|------------------|-------------|--------------------|------------------------|----------------------|
| 0068412  | 2.0     | 6.0     | 6.0     | 50.0    | 2.0     | 2.0    | 2                | 38,04       | 36,14              | 33,29                  | 30,43                |
| 00684115 | 3.0     | 6.0     | 6.0     | 50.0    | 1.5     | 1.5    | 2                | 38,04       | 36,14              | 33,29                  | 30,43                |
| 00684125 | 3.0     | 6.0     | 8.0     | 50.0    | 2.5     | 2.5    | 4                | 60,61       | 57,58              | 53,03                  | 48,49                |
| 00684145 | 3.0     | 6.0     | 12.0    | 50.0    | 4.5     | 4.5    | 4                | 95,04       | 90,29              | 83,16                  | 76,03                |
| 0068415  | 3.0     | 6.0     | 13.0    | 50.0    | 5.0     | 5.0    | 4                | 108,02      | 102,62             | 94,52                  | 86,42                |
| 0068411  | 4.0     | 6.0     | 6.0     | 50.0    | 1.0     | 1.0    | 2                | 38,04       | 36,14              | 33,29                  | 30,43                |
| 0068413  | 4.0     | 6.0     | 10.0    | 50.0    | 3.0     | 3.0    | 4                | 76,08       | 72,28              | 66,57                  | 60,86                |
| 00684135 | 4.0     | 6.0     | 11.0    | 50.0    | 3.5     | 3.5    | 4                | 89,06       | 84,61              | 77,93                  | 71,25                |
| 0068414  | 4.0     | 6.0     | 12.0    | 50.0    | 4.0     | 4.0    | 4                | 95,04       | 90,29              | 83,16                  | 76,03                |
| 0068416  | 4.0     | 6.0     | 16.0    | 50.0    | 6.0     | 6.0    | 4                | 115,81      | 110,02             | 101,33                 | 92,65                |
| 0068410  | 5.0     | 6.0     | 6.0     | 50.0    | 0.5     | 0.5    | 2                | 38,04       | 36,14              | 33,29                  | 30,43                |

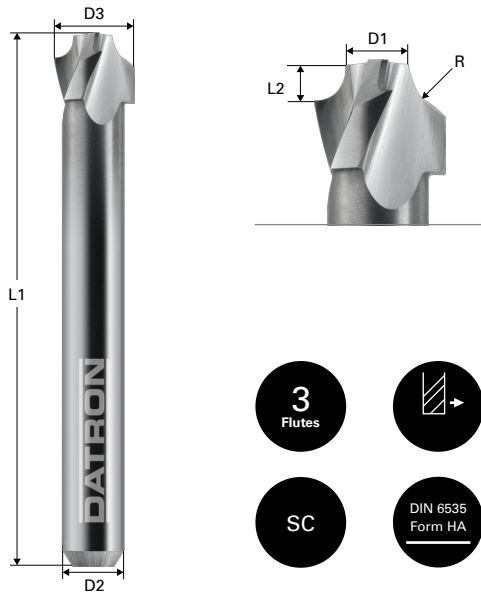
### 8 mm Shank

| Art. No.  | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | Number of Flutes | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|---------|---------|---------|---------|---------|--------|------------------|-------------|--------------------|------------------------|----------------------|
| 00684125N | 3.0     | 8.0     | 8.0     | 50.0    | 2.5     | 2.5    | 4                | 57,73       | 54,84              | 50,51                  | 46,18                |
| 00684135N | 4.0     | 8.0     | 11.0    | 50.0    | 3.5     | 3.5    | 4                | 84,82       | 80,58              | 74,22                  | 67,86                |
| 0068413N  | 4.0     | 8.0     | 10.0    | 50.0    | 3.0     | 3.0    | 4                | 72,46       | 68,84              | 63,40                  | 57,97                |
| 0068414N  | 4.0     | 8.0     | 12.0    | 50.0    | 4.0     | 4.0    | 4                | 90,52       | 85,99              | 79,21                  | 72,42                |

DATRON **neo**

| Art. No.  | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | S | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|-----------|---------|---------|---------|---------|---------|--------|---|-------------|--------------------|------------------------|----------------------|
| 00684125N | 3       | 8       | 8       | 50      | 2,5     | 2,5    | 4 | 57,73 €     | 54,84 €            | 50,51 €                | 46,18 €              |
| 0068413N  | 4       | 8       | 10      | 50      | 3       | 3      | 4 | 72,46 €     | 68,84 €            | 63,40 €                | 57,97 €              |
| 00684135N | 4       | 8       | 11      | 50      | 3,5     | 3,5    | 4 | 74,82 €     | 71,08 €            | 65,47 €                | 59,86 €              |
| 0068414N  | 4       | 8       | 12      | 50      | 4       | 4      | 4 | 90,52 €     | 85,99 €            | 79,21 €                | 72,42 €              |

# External Radius End Mill Polished for Acrylic Glass



Acrylic Glass



Plastic

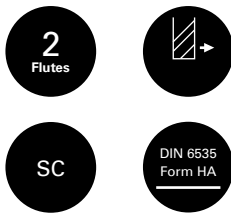


## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 00685710 | 4.0     | 6.0     | 6.0     | 50.0    | 1.0     | 1.0    | 46,50       | 44,18          | 40,69           | 37,20           |
| 00685720 | 4.0     | 6.0     | 8.0     | 50.0    | 2.0     | 2.0    | 70,21       | 66,70          | 61,43           | 56,17           |
| 00685730 | 4.0     | 6.0     | 10.0    | 50.0    | 3.0     | 3.0    | 93,91       | 89,21          | 82,17           | 75,13           |
| 00685715 | 5.0     | 6.0     | 8.0     | 50.0    | 1.5     | 1.5    | 70,21       | 66,70          | 61,43           | 56,17           |
| 00685725 | 5.0     | 6.0     | 10.0    | 50.0    | 2.5     | 2.5    | 93,91       | 89,21          | 82,17           | 75,13           |

DATRON

# Deburring End Mill Two Flutes



Steel



## 3 mm Shank

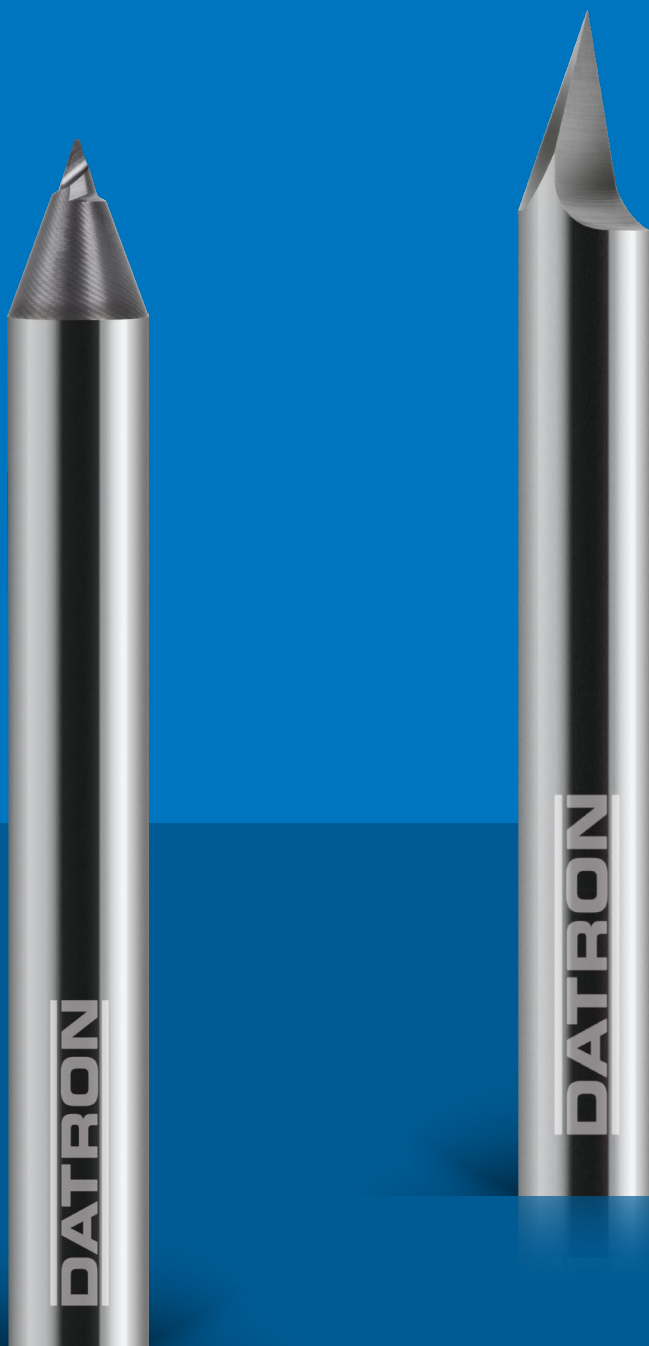
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|---------|--------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |         |        |             | -5%            | -12,5%          | -20%            |
| 00784908 | 0.8     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784909 | 0.9     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784910 | 1.0     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784911 | 1.1     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784912 | 1.2     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784913 | 1.3     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784914 | 1.4     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784915 | 1.5     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784916 | 1.6     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784917 | 1.7     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784918 | 1.8     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784919 | 1.9     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784920 | 2.0     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784921 | 2.1     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784922 | 2.2     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784923 | 2.3     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |
| 00784924 | 2.4     | 3.0     | 40.0    | 0.3     | 0.3    | 55,87       | 53,08          | 48,89           | 44,70           |



DATRON

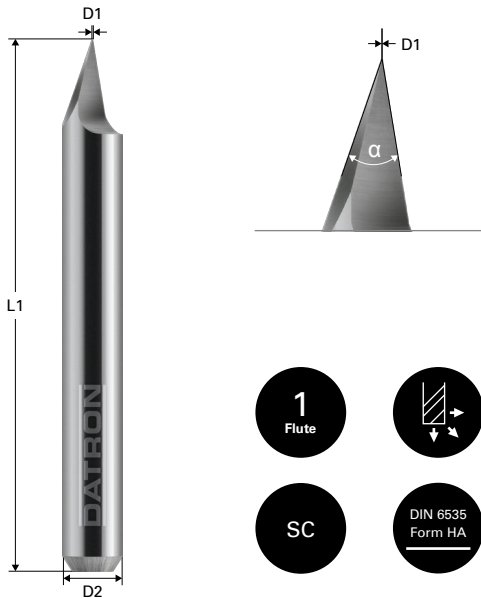
# Standard Engraving Tools

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DATRON

# Standard Engraving Tool



Aluminium

Bronze

Plastic

Wood



Copper

Brass

Acrylic Glass



## 3 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068278  | 0.05    | 3.0     | 40.0    | 20    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068279  | 0.1     | 3.0     | 40.0    | 20    | 16,71       | 15,87          | 14,62           | 13,37           |
| 0068279A | 0.1     | 3.0     | 40.0    | 30    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068280  | 0.1     | 3.0     | 40.0    | 40    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068280A | 0.1     | 3.0     | 40.0    | 45    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068281  | 0.1     | 3.0     | 40.0    | 60    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068282  | 0.1     | 3.0     | 40.0    | 90    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068278A | 0.2     | 3.0     | 40.0    | 20    | 16,71       | 15,87          | 14,62           | 13,37           |
| 0068279B | 0.2     | 3.0     | 40.0    | 30    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068280B | 0.2     | 3.0     | 40.0    | 40    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068281A | 0.2     | 3.0     | 40.0    | 60    | 17,09       | 16,24          | 14,95           | 13,67           |
| 0068280D | 0.5     | 3.0     | 40.0    | 40    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068284  | 3.0     | 3.0     | 40.0    | 180   | 13,65       | 12,97          | 11,94           | 10,92           |

## 1/8" Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068679  | 0.1     | 3.175   | 40.0    | 20    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068679A | 0.1     | 3.175   | 40.0    | 30    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068680  | 0.1     | 3.175   | 40.0    | 40    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068681  | 0.1     | 3.175   | 40.0    | 60    | 15,91       | 15,11          | 13,92           | 12,73           |
| 0068682  | 0.1     | 3.175   | 40.0    | 90    | 15,91       | 15,11          | 13,92           | 12,73           |

## 4 mm Shank

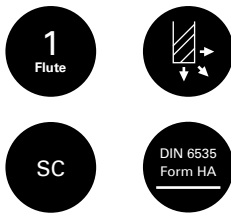
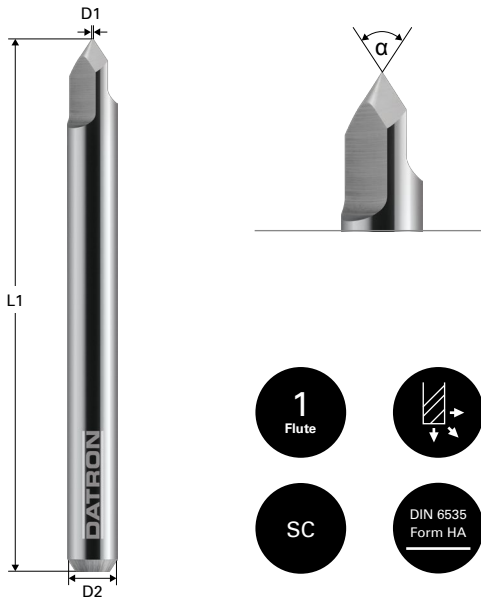
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068270  | 0.1     | 4.0     | 40.0    | 20    | 21,45       | 20,38          | 18,77           | 17,16           |
| 0068273  | 0.1     | 4.0     | 40.0    | 30    | 21,45       | 20,38          | 18,77           | 17,16           |
| 0068274  | 0.1     | 4.0     | 40.0    | 40    | 21,45       | 20,38          | 18,77           | 17,16           |
| 0068276  | 0.1     | 4.0     | 40.0    | 60    | 21,45       | 20,38          | 18,77           | 17,16           |
| 0068277  | 0.1     | 4.0     | 40.0    | 90    | 21,45       | 20,38          | 18,77           | 17,16           |

## 6 mm Shank

| Art. No. | D1<br>(mm) | D2<br>(mm) | L1<br>(mm) | α<br>(°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|------------|------------|------------|----------|-------------|----------------|-----------------|-----------------|
|          |            |            |            |          |             | -5%            | -12,5%          | -20%            |
| 0068284B | 0.05       | 6.0        | 50.0       | 20       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068284C | 0.1        | 6.0        | 50.0       | 20       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068283  | 0.1        | 6.0        | 50.0       | 30       | 32,17       | 30,56          | 28,15           | 25,74           |
| 0068283L | 0.1        | 6.0        | 50.0       | 40       | 32,17       | 30,56          | 28,15           | 25,74           |
| 0068285  | 0.1        | 6.0        | 50.0       | 50       | 32,17       | 30,56          | 28,15           | 25,74           |
| 0068285A | 0.1        | 6.0        | 50.0       | 60       | 32,17       | 30,56          | 28,15           | 25,74           |
| 0068286  | 0.1        | 6.0        | 50.0       | 90       | 32,17       | 30,56          | 28,15           | 25,74           |
| 0068287  | 0.1        | 6.0        | 50.0       | 120      | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068284D | 0.2        | 6.0        | 50.0       | 20       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068283D | 0.2        | 6.0        | 50.0       | 30       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068285D | 0.2        | 6.0        | 50.0       | 60       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068283E | 0.3        | 6.0        | 50.0       | 30       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068285E | 0.3        | 6.0        | 50.0       | 60       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068284F | 0.4        | 6.0        | 50.0       | 20       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068283F | 0.4        | 6.0        | 50.0       | 30       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068285F | 0.4        | 6.0        | 50.0       | 60       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068283G | 0.6        | 6.0        | 50.0       | 30       | 33,30       | 31,64          | 29,14           | 26,64           |
| 0068288  | 6.0        | 6.0        | 50.0       | 180      | 16,71       | 15,87          | 14,62           | 13,37           |

DATRON

# Standard Engraving Tool Specially Balanced



Aluminium

Bronze

Plastic

Wood



Copper

Brass

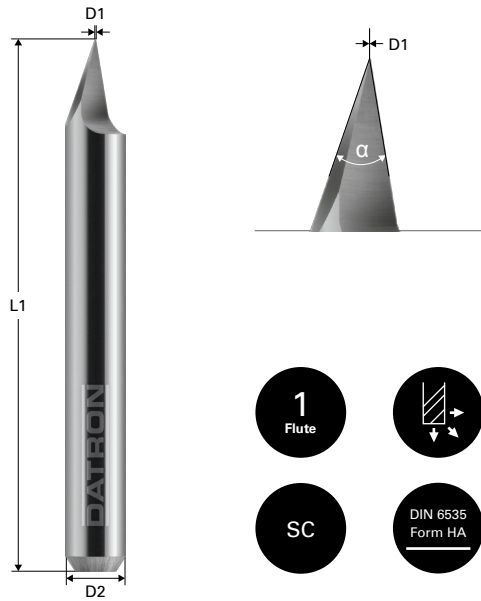
Acrylic Glass



## 6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | α (°) | Price (€) |                  |                      |                    |
|----------|---------|---------|---------|-------|-----------|------------------|----------------------|--------------------|
|          |         |         |         |       | 1 Piece   | ≥ 5 Pieces (-5%) | ≥ 10 Pieces (-12,5%) | ≥ 25 Pieces (-20%) |
| 0068282G | 0.1     | 6.0     | 50.0    | 30    | 35,78     | 33,99            | 31,31                | 28,62              |
| 0068284G | 0.1     | 6.0     | 50.0    | 40    | 35,78     | 33,99            | 31,31                | 28,62              |
| 0068285G | 0.1     | 6.0     | 50.0    | 60    | 35,78     | 33,99            | 31,31                | 28,62              |
| 0068286G | 0.1     | 6.0     | 50.0    | 90    | 35,78     | 33,99            | 31,31                | 28,62              |

# Standard Engraving Tool for Steel Machining

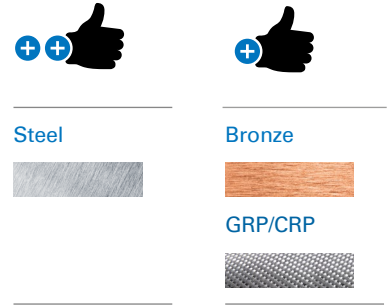


6 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | α (°) | 1 Piece (€) | ≥ 5 Pieces (€) | ≥ 10 Pieces (€) | ≥ 25 Pieces (€) |
|----------|---------|---------|---------|-------|-------------|----------------|-----------------|-----------------|
|          |         |         |         |       |             | -5%            | -12,5%          | -20%            |
| 0068510  | 0.1     | 6.0     | 50.0    | 20    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068511  | 0.1     | 6.0     | 50.0    | 30    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068512  | 0.1     | 6.0     | 50.0    | 40    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068513  | 0.1     | 6.0     | 50.0    | 60    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068514  | 0.1     | 6.0     | 50.0    | 90    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068510A | 0.2     | 6.0     | 50.0    | 20    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068511A | 0.2     | 6.0     | 50.0    | 30    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068512A | 0.2     | 6.0     | 50.0    | 40    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068513A | 0.2     | 6.0     | 50.0    | 60    | 34,43       | 32,71          | 30,13           | 27,54           |
| 0068514A | 0.2     | 6.0     | 50.0    | 90    | 34,43       | 32,71          | 30,13           | 27,54           |

DATRON

# Standard Engraving Tool for Hard Metal Machining with Coating (ALCRONA)



4 mm Shank

| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | $\alpha$ (°) | Price (€) |                  |                      |                    |
|----------|---------|---------|---------|--------------|-----------|------------------|----------------------|--------------------|
|          |         |         |         |              | 1 Piece   | ≥ 5 Pieces (-5%) | ≥ 10 Pieces (-12,5%) | ≥ 25 Pieces (-20%) |
| 0068520  | 0.1     | 4.0     | 40.0    | 30           | 55,53     | 52,75            | 48,59                | 44,42              |
| 0068521  | 0.1     | 4.0     | 40.0    | 45           | 55,53     | 52,75            | 48,59                | 44,42              |
| 0068520A | 0.2     | 4.0     | 40.0    | 30           | 55,53     | 52,75            | 48,59                | 44,42              |
| 0068521A | 0.2     | 4.0     | 40.0    | 45           | 55,53     | 52,75            | 48,59                | 44,42              |

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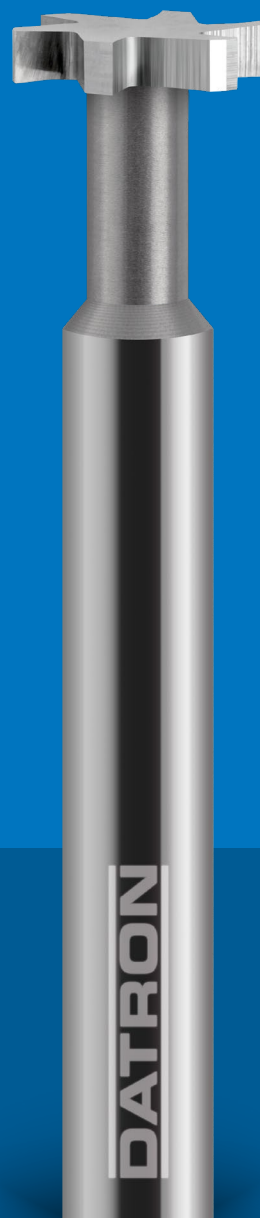
DATRON

# T-Slotting Mills

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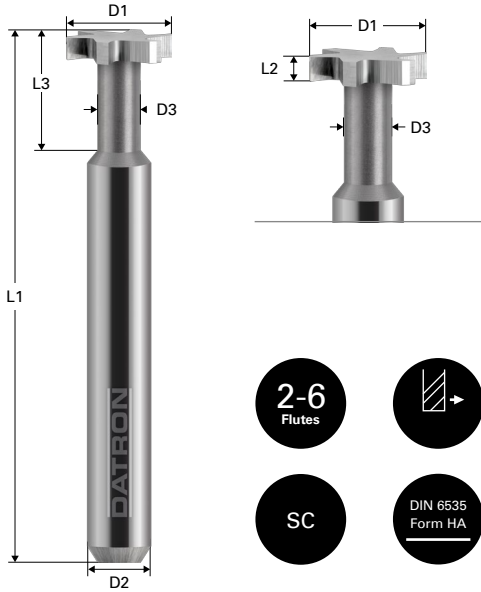
T-Slotting Mill

96



DATRON

# T-Slotting Mill



Aluminium



Plastic



Wood



Bronze



Brass



| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Number of Flutes | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|------------------|-------------|--------------------|------------------------|----------------------|
| 0068425  | 3.0     | 3.0     | 1.6     | 40.0    | 0.8     | 6.0     | 2                | 46,39       | 44,07              | 40,59                  | 37,11                |
| 0068424D | 6.0     | 6.0     | 3.0     | 50.0    | 2.8     | 8.0     | 4                | 92,67       | 88,04              | 81,09                  | 74,14                |
| 0068424L | 8.0     | 6.0     | 3.5     | 50.0    | 0.7     | 6.0     | 4                | 100,91      | 95,86              | 88,30                  | 80,73                |
| 0068424K | 8.0     | 6.0     | 3.5     | 50.0    | 1.0     | 6.0     | 4                | 100,91      | 95,86              | 88,30                  | 80,73                |
| 0068424  | 8.0     | 6.0     | 3.5     | 50.0    | 1.3     | 6.0     | 4                | 89,06       | 84,61              | 77,93                  | 71,25                |
| 0068424S | 8.0     | 6.0     | 3.5     | 50.0    | 4.5     | 9.0     | 4                | 100,91      | 95,86              | 88,30                  | 80,73                |
| 0068423  | 10.0    | 6.0     | 4.0     | 50.0    | 2.0     | 12.0    | 4                | 92,67       | 88,04              | 81,09                  | 74,14                |
| 0068423A | 10.0    | 6.0     | 4.0     | 50.0    | 2.0     | 12.0    | 6                | 92,67       | 88,04              | 81,09                  | 74,14                |
| 0068426  | 15.0    | 6.0     | 6.0     | 50.0    | 3.0     | 25.0    | 4                | 131,73      | 125,14             | 115,26                 | 105,38               |
| 0068424A | 8.0     | 8.0     | 3.5     | 50.0    | 1.3     | 6.0     | 4                | 92,67       | 88,04              | 81,09                  | 74,14                |

## DATRON NEO

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | Number of Flutes | 1 Piece (€) | ≥ 5 Pieces (€) -5% | ≥ 10 Pieces (€) -12,5% | ≥ 25 Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|--------|------------------|-------------|--------------------|------------------------|----------------------|
| 0068424A | 8       | 8       | 3,5     | 50      | 1,3     | 60     | 4                | 92,67 €     | 88,04 €            | 81,09 €                | 74,14 €              |
| 0068423N | 10      | 8       | 4       | 50      | 2       | 12     | 4                | 88,26 €     | 83,85 €            | 77,23 €                | 70,61 €              |



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DATRON

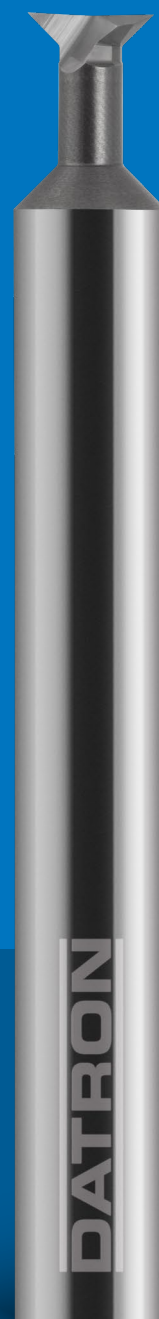
# Dovetail Milling Tools

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Dovetail Milling Tool

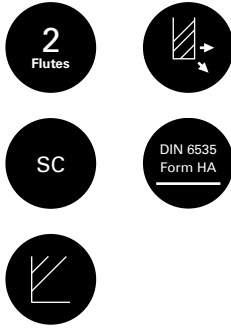
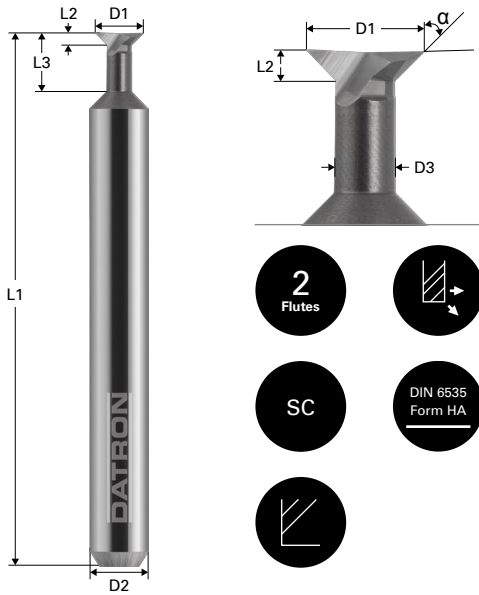
98

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DATRON

# Dovetail Milling Tool



Aluminium



Plastic



Wood



Bronze



Brass



| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | $\alpha$ (°) | 1 Piece (€) | $\geq 5$ Pieces (€) -5% | $\geq 10$ Pieces (€) -12,5% | $\geq 25$ Pieces (€) -20% |
|----------|---------|---------|---------|---------|---------|---------|--------------|-------------|-------------------------|-----------------------------|---------------------------|
| 0068290  | 3.0     | 3.0     | 2.0     | 40.0    | 3.0     | 6.0     | 5            | 36,80       | 34,96                   | 32,20                       | 29,44                     |
| 0068783  | 3.0     | 3.0     | 2.0     | 40.0    | 0.87    | 6.0     | 30           | 39,17       | 37,21                   | 34,27                       | 31,34                     |
| 0068783A | 3.0     | 3.0     | 2.0     | 40.0    | 0.5     | 6.0     | 45           | 39,17       | 37,21                   | 34,27                       | 31,34                     |
| 0068783B | 3.0     | 3.0     | 2.0     | 40.0    | 0.29    | 6.0     | 60           | 39,17       | 37,21                   | 34,27                       | 31,34                     |
| 0068690  | 3.175   | 3.175   | 2.0     | 39.0    | 3.0     | 6.0     | 5            | 36,80       | 34,96                   | 32,20                       | 29,44                     |
| 0068784  | 4.0     | 6.0     | 2.0     | 50.0    | 1.73    | 6.0     | 30           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068784A | 4.0     | 6.0     | 2.0     | 50.0    | 1.0     | 6.0     | 45           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068784B | 4.0     | 6.0     | 2.0     | 50.0    | 0.58    | 6.0     | 60           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068785  | 5.0     | 6.0     | 2.5     | 50.0    | 2.17    | 6.0     | 30           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068785A | 5.0     | 6.0     | 2.5     | 50.0    | 1.25    | 6.0     | 45           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068785B | 5.0     | 6.0     | 2.5     | 50.0    | 0.72    | 6.0     | 60           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068291  | 6.0     | 6.0     | 5.0     | 50.0    | 6.0     | 6.0     | 5            | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068786  | 6.0     | 6.0     | 3.0     | 50.0    | 2.6     | 6.0     | 30           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068786A | 6.0     | 6.0     | 3.0     | 50.0    | 1.5     | 6.0     | 45           | 53,05       | 50,40                   | 46,42                       | 42,44                     |
| 0068786B | 6.0     | 6.0     | 3.0     | 50.0    | 0.87    | 6.0     | 60           | 53,05       | 50,40                   | 46,42                       | 42,44                     |

# Tool Clamping Technology

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## HSK Clamping System

|                                                     |     |
|-----------------------------------------------------|-----|
| Polygon Clamping Technology                         | 100 |
| HSK-E 25 & HSK-E 32 Polygonal Toolholder            | 101 |
| DATRON Clamping Fixture<br>for Polygonal Toolholder | 102 |
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## Direct Clamping System

|                                                  |     |
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| DATRON Insertion Tools and Limit Stop Rings      | 104 |

DATRON

# Polygon Clamping Technology

The HSK-E polygon collet chucks have been developed for precise and safe cutting, also at high speeds.

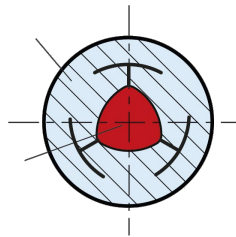
The stable, rotation-symmetrical design has an excellent concentricity of less than 3 µm. This permits high quality milling results at a speed of up to 48,000 RPM.

With passive vibration damping, the life of the high frequency spindle and the cutting tool is significantly improved.



## Functional Principle of the Polygonal Clamping Technology

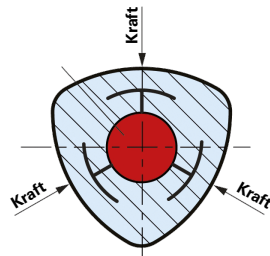
**Clamping Diameter Polygonal**



### 1. Before Clamping

The polygon-shaped geometry of the shank insert can be clearly seen in the unloaded, relieved state.

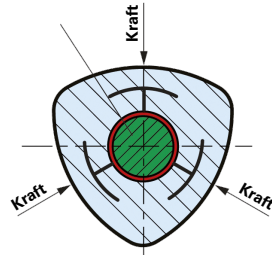
**Clamping Diameter is Round**



### 2. In the Clamping Fixture

Force is applied at three points by means of the hydraulic clamping fixture. This makes the shank insert circular.

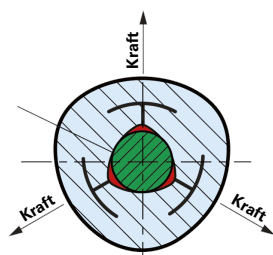
**Joining Shank**



### 3. Inserting the Tool Shank

Now the tool shank can be easily and quickly mounted in the insert.

**Clamping Diameter Shrinks**



### 4. The Tool is Clamped

The pressure of the clamping fixture and the force transmission are reduced. The elastically deformed collet chuck comes back to its polygon shape. Now the tool is firmly and centrally clamped.

# HSK-E 25 & HSK-E 32 Polygonal Toolholder



The DATRON polygonal toolholders convince by their solid design and an excellent concentricity of less than 3 µm. This guarantee highest precision during the machining process.

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm)  | L1 (mm) | L2 (mm) | Piece (€) |
|----------|---------|---------|----------|---------|---------|-----------|
| 0068300G | 3.0     | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068300S | 3.0     | 14.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068311D | 3.175   | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068301G | 4.0     | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068302G | 5.0     | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068303G | 6.0     | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068303S | 6.0     | 14.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068304G | 8.0     | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068305G | 10.0    | 20.0    | HSK-E-25 | 40.0    | 30.0    | 285,00    |
| 0068300W | 3.0     | 20.0    | HSK-E-32 | 50.0    | 30.0    | 309,00    |
| 0068301W | 4.0     | 20.0    | HSK-E-32 | 50.0    | 30.0    | 309,00    |
| 0068302W | 5.0     | 20.0    | HSK-E-32 | 50.0    | 30.0    | 309,00    |
| 0068303W | 6.0     | 20.0    | HSK-E-32 | 50.0    | 30.0    | 309,00    |
| 0068308J | 8.0     | 25.0    | HSK-E-32 | 55.0    | 35.0    | 309,00    |
| 0068309J | 10.0    | 25.0    | HSK-E-32 | 55.0    | 35.0    | 309,00    |
| 0068310J | 12.0    | 25.0    | HSK-E-32 | 55.0    | 35.0    | 309,00    |

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## Clamping Fixture for Polygonal Toolholder

The hydraulic clamping fixture for polygon clamping technique, equipped with hand pump and manometer, does not require any source of energy and can therefore be used in a very flexible manner. Just a few steps are required for the clamping process. Clamping is completed within 20 seconds.

Compared to the shrink technique, this wear-free process does not require any heating up or cooling down phases.



| Art. No. | Article Description                       | Piece (€) |
|----------|-------------------------------------------|-----------|
| 0068340  | Clamping Device for HSK-E 25 and HSK-E 32 | 1850,00   |

DATRON

## Reduction Inserts for Polygonal Toolholder

The reducing inserts allow the use of different HSK collet chucks on the clamping device.

| Art. No. | Article Description | for D2 | Adapter Type | Piece (€) |
|----------|---------------------|--------|--------------|-----------|
| 0068341S | Reduction Insert    | 14     | HSK-E 25     | 185,00    |
| 0068341D | Reduction Insert    | 20     | HSK-E 25     | 185,00    |
| 0068341E | Reduction Insert    | 25     | HSK-E 32     | 185,00    |



DATRON

## Collet Holder DR 16 for HSK-E 32

The DATRON collet holder DR 16 can be used flexibly and convince with a solid design. Through a large selection of precision collets, the collet holders can be used for various clamping diameters. Thanks to the good concentricity of the metal-sealed precision collets, a runout of  $<3 \mu\text{m}$  can be ensured in the system guaranteed, which is many times better than the concentricity of conventional ER 16 clamping systems many times over.



| Art. No. | D1 (mm) | D2 (mm) | D3 (mm)  | L1 (mm) | L2 (mm) | Note                                                    | Piece (€) |
|----------|---------|---------|----------|---------|---------|---------------------------------------------------------|-----------|
| 0068321  | DR 16   | 24.0    | HSK-E 32 | 55.0    | 35.0    | Collet Holder DR 16 incl. Clamping Nut and Coolant Tube | 239,00    |
| 0068321B | 3.0     | -       | DR 16    | -       | -       | DATRON precision collet DR 16, metallic sealed          | 50,00     |
| 0068321C | 4.0     | -       | DR 16    | -       | -       | DATRON precision collet DR 16, metallic sealed          | 50,00     |
| 0068321E | 6.0     | -       | DR 16    | -       | -       | DATRON precision collet DR 16, metallic sealed          | 50,00     |
| 0068321G | 8.0     | -       | DR 16    | -       | -       | DATRON precision collet DR 16, metallic sealed          | 50,00     |
| 0068321I | 10.0    | -       | DR 16    | -       | -       | DATRON precision collet DR 16, metallic sealed          | 50,00     |

DATRON

## Tool assembly for collet holder DR 16

The DATRON mounting accessories allow a flexible use of the collet chuck holders from the DATRON range.

| Art. No. | Article Description                          | Note                                              | Piece (€) |
|----------|----------------------------------------------|---------------------------------------------------|-----------|
| 0068322  | Tool assembly set for DATRON collet holder   | Assembly block, tool adapter, wrench head and bar | 1599,00   |
| 0068322A | Tool assembly block for DATRON collet holder | incl. torque measuring sensor                     | 1200,00   |
| 0068322D | Tool adapter for DATRON collet holder        | Suitable for HSK-E 32 collet holder               | 359,00    |
| 0068322C | Roller wrench for DATRON collet holder       | Suitable for DR 16 locknuts, D=24 mm              | 110,00    |
| 0068322B | Handle bar for roller wrench                 | L=280mm                                           | 50,00     |



DATRON

## Adapter Collets for Direct Shank Clamping System

With the DATRON adapter collets you may use different tool shank diameters in one spindle collet chunk only. The adapters are pre-stressed and therefore reusable. To open the adapter collets you need the DATRON adapter insertion tool Art. No. 0068337D for 6mm and 8mm adapters.



| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | Piece (€) |
|----------|---------|---------|---------|-----------|
| 0068336G | 1.0     | 6.0     | 7.55    | 64,90     |
| 0068336H | 1.1     | 6.0     | 7.55    | 64,90     |
| 0068336J | 1.2     | 6.0     | 7.55    | 64,90     |
| 0068336K | 1.3     | 6.0     | 7.55    | 64,90     |
| 0068336L | 1.4     | 6.0     | 7.55    | 64,90     |
| 0068336M | 1.5     | 6.0     | 7.55    | 64,90     |
| 0068336N | 1.6     | 6.0     | 7.55    | 64,90     |
| 0068336P | 1.7     | 6.0     | 7.55    | 64,90     |
| 0068336Q | 1.8     | 6.0     | 7.55    | 64,90     |
| 0068350  | 1/8"    | 6.0     | 7.55    | 49,90     |
| 0068350A | 1/8"    | 6.35    | 7.55    | 64,90     |

| Art. No. | D1 (mm)                                                | D2 (mm) | D3 (mm) | Piece (€) |
|----------|--------------------------------------------------------|---------|---------|-----------|
| 0068350C | 1/8"                                                   | 8.0     | 10.5    | 64,90     |
| 0068336B | 2.0                                                    | 6.0     | 7.55    | 64,90     |
| 0068336A | 2.0                                                    | 8.0     | 10.5    | 64,90     |
| 0068336  | 3.0                                                    | 6.0     | 7.55    | 49,90     |
| 0068336C | 3.0                                                    | 8.0     | 10.5    | 64,90     |
| 0068350D | 4.0                                                    | 6.0     | 7.55    | 64,90     |
| 0068336D | 4.0                                                    | 8.0     | 10.5    | 64,90     |
| 0068336R | 5.0                                                    | 8.0     | 10.5    | 64,90     |
| 0068336F | 6.0                                                    | 8.0     | 10.5    | 64,90     |
| 0068337D | Adapter Insertion Tool for 6 mm and 8 mm Collet Chucks |         |         | 149,00    |

DATRON

## Limit Stop Rings and Insertion Tool

The limit stop rings are used to fasten the tool shafts in the automatic tool change. To push the rings on the 6mm and 8mm shanks we recommend the DATRON insertion tool.

| Art. No. | D1 (mm)                                             | D2 (mm) | Material | Limit Stop Ring                 | Piece (€) |
|----------|-----------------------------------------------------|---------|----------|---------------------------------|-----------|
| 0068000  | 3.0                                                 | 7.55    | Plastic  | For Tool Change Station 0069220 | 0,45      |
| 0068000Y | 4.0                                                 | 10.50   | Brass    | For Tool Change Station 0069220 | 3,20      |
| 0068001  | 3.175                                               | 7.55    | Plastic  | For Tool Change Station 0069220 | 0,45      |
| 0068002  | 6.0                                                 | 10.50   | Brass    | For Tool Change Station 0069221 | 1,30      |
| 0068002A | 6.0                                                 | 12.50   | Brass    | For Tool Change Station 0069227 | 5,50      |
| 0068002H | 6.0                                                 | 15.00   | Brass    | For Tool Change Station 0069223 | 5,50      |
| 0068002J | 6.0                                                 | 18.00   | Brass    | For Tool Change Station 0069227 | 5,50      |
| 0068002Z | 6.35                                                | 10.50   | Brass    | For Tool Change Station 0069221 | 3,20      |
| 0068001D | 8.0                                                 | 12.50   | Brass    | For Tool Change Station 0069222 | 2,50      |
| 0068002K | 8.0                                                 | 18.00   | Brass    | For Tool Change Station 0069227 | 5,50      |
| 0068180  | Limit Stop Ring Insertion Tool for 6 mm Shank Tools |         |          |                                 | 74,90     |
| 0068180A | Limit Stop Ring Insertion Tool for 8 mm Shank Tools |         |          |                                 | 74,90     |





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DATRON

# Expendable Material

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|          |     |
|----------|-----|
| VacuCard | 106 |
|----------|-----|

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|                    |     |
|--------------------|-----|
| Cooling Lubricants | 108 |
|--------------------|-----|

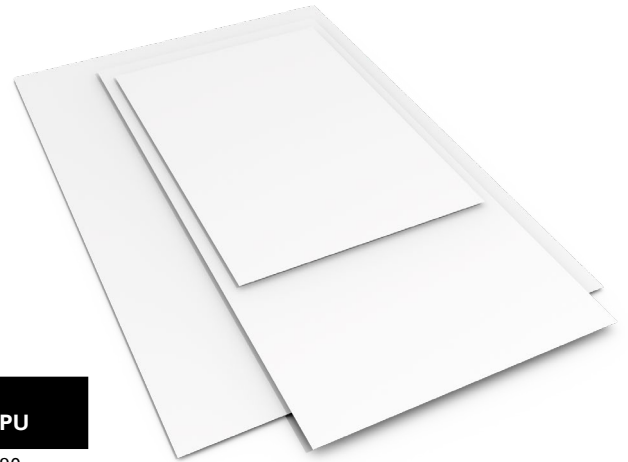
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DATRON

## VacuCard

This paperboard serves as the “sacrificial layer” during vacuum clamping. This special fabric structure distributes the vacuum homogeneously and ensures a uniform suction force over the entire clamping surface.

- Distributes vacuum homogeneously
- Uniform suction force
- Format matches the DATRON vacuum plates



| Art. No.  | Article Description | Unit per PU | Size (mm)        | € per PU |
|-----------|---------------------|-------------|------------------|----------|
| 0A01616*  | VacuCard            | 50          | 450 x 650 x 0.7  | 59,90    |
| 0A01617*  | VacuCard            | 50          | 500 x 1000 x 0.7 | 83,90    |
| 0A01617A* | VacuCard            | 50          | 700 x 1000 x 0.7 | 94,90    |

**DATRON** *neo*

| Art. No.  | Article Description | Unit per PU | Size (mm)       | € per PU |
|-----------|---------------------|-------------|-----------------|----------|
| 0A01617I* | VacuCard (neo)      | 50          | 500 x 200 x 0.7 | 92,90    |
| 0A01617K* | VacuCard (neo)      | 50          | 500 x 400 x 0.7 | 104,90   |

\* from 4 PU freight costs are incurred

DATRON

## VacuCard++ Defies the Rules of Physics

Clamping of small parts with vacuum

### What is VacuCard++?

VacuCard++ is a special, patent-pending paperboard which is used as a sacrificial layer between the work piece and the vacuum plate. Unlike the DATRON VacuCard, the VacuCard++ has an additional grid-like sealing/adhesive layer that significantly increases the holding force during vacuum clamping and considerably reduces vacuum loss.

#### For Which Applications can the VacuCard++ be Used?

- Milling small parts made of plate material
- Consolidated PCB machining without separating webs
- Milling thin and soft plate material
- Milling plate material with a rough surface

#### How does the VacuCard++ Work?

- The sealing/adhesive layer holds parts that are so small that vacuum alone would not be enough to hold them
- Increases the holding force during vacuum clamping with suction-cup effect

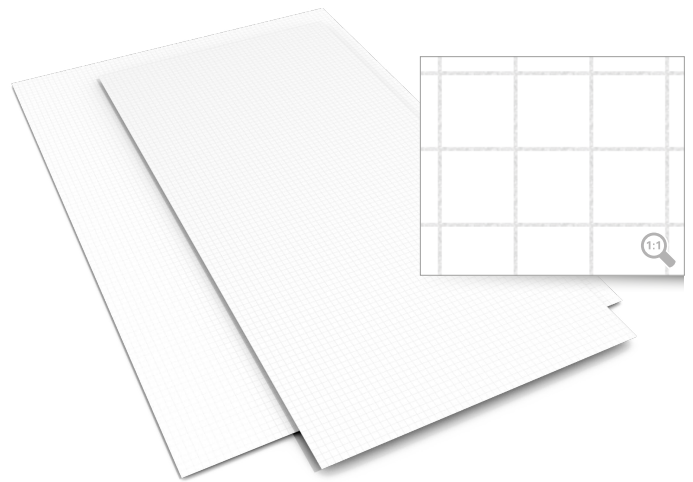
- Prevents work pieces from slipping when large milling forces are used
- Reduces the vacuum consumption and prevents early collapse
- Distributes the vacuum evenly over the work piece
- Prevents raising of edges in soft and flexible work pieces
- Machined work pieces can be removed without any residue

#### Technical Data

- Paperboard with redundant suction-cup effect due to a grid-like sealing/adhesive layer
- Combination of adhesion and vacuum clamping
- Reduced vacuum consumption due to limited air permeability and protective film cover
- Disposed of as paper waste
- Durability depends on the storage

The patented VacuCard++ is based on the standard VacuCard and has a grid-like adhesive structure. Thanks to this special adhesive layer, the VacuCard++ has a considerably higher combined clamping force and fixes even small, light parts with high process reliability.

- Grid-like adhesive layer (10 mm x 10 mm)
- Delicate parts are firmly clamped
- Homogeneous vacuum distribution
- Format matches the DATRON vacuum plates



| Art. No.  | Article Description | Unit per PU | Size (mm)        | € per PU |
|-----------|---------------------|-------------|------------------|----------|
| 0A01618G* | VacuCard++          | 10          | 450 x 650 x 0.7  | 70,00    |
| 0A01618D* | VacuCard++          | 50          | 450 x 650 x 0.7  | 260,00   |
| 0A01618H* | VacuCard++          | 10          | 500 x 1000 x 0.7 | 74,00    |
| 0A01618E* | VacuCard++          | 50          | 500 x 1000 x 0.7 | 320,00   |
| 0A01618I* | VacuCard++          | 10          | 700 x 1000 x 0.7 | 106,00   |
| 0A01618F* | VacuCard++          | 50          | 700 x 1000 x 0.7 | 420,00   |

\* from 4 PU freight costs are incurred

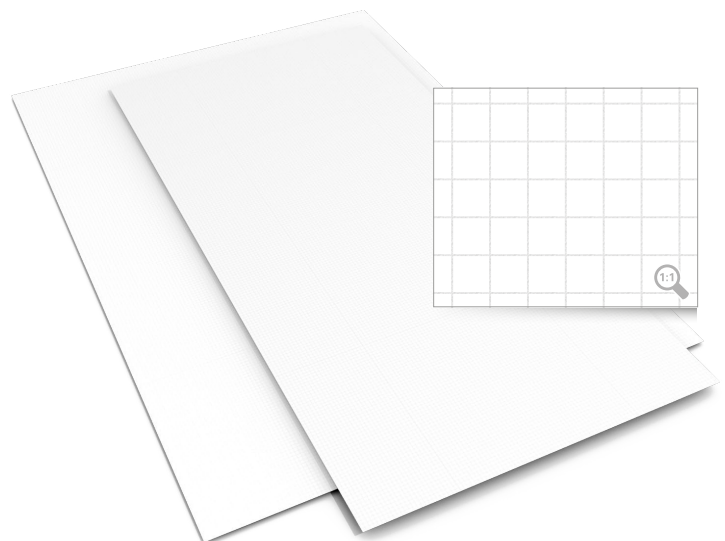
DATRON

## VacuCard+++

### DATRON VacuCard+++

The patented VacuCard+++ is based on the standard VacuCard and has a grid-like adhesive structure (5 mm x 5 mm). Thanks to this special adhesive layer, the VacuCard+++ has a considerably higher combined clamping force and fixes even small, light parts up to 10 mm diameter with high process reliability.

- Grid-like adhesive layer (5 mm x 5 mm)
- Smallest parts are firmly clamped
- Homogeneous vacuum distribution
- Format matches the DATRON vacuum plates



| Art. No.   | Article Description | Unit per PU | Size (mm)        | € per PU |
|------------|---------------------|-------------|------------------|----------|
| 0A01618M*  | VacuCard+++         | 10          | 500 x 1000 x 0.7 | 82,00    |
| 0A01618K** | VacuCard+++         | 100         | 500 x 1000 x 0.7 | 600,00   |
| 0A01618N*  | VacuCard+++         | 10          | 700 x 1000 x 0.7 | 115,00   |
| 0A01618L*  | VacuCard+++         | 50          | 700 x 1000 x 0.7 | 440,00   |

DATRON neo

| Art. No.  | Article Description | Unit per PU | Size (mm)       | € per PU |
|-----------|---------------------|-------------|-----------------|----------|
| 0A01618W* | VacuCard+++ (neo)   | 20          | 500 x 400 x 0.7 | 105,00   |

\* from 4 PU freight costs are incurred

\*\* plus freight costs

DATRON

## Cooling Lubricants for Minimum Lubrication

Beyond CNC machines and tools, DATRON is now also offering the appropriate cooling lubricants. These new cooling lubricants, called ProCut, are only appropriate for minimum lubrication. Due to the very low consumption, this puts the price per liter into perspective. In addition, operating and personnel costs for the machine and part cleaning are saved to a great degree, as well as, for example, changing the lubricant. DATRON is still offering minimum lubrication systems for Microjet, which optimally moisten the workpieces with their flexibly adjustable spray nozzles.



### DATRON ProCut 56

ProCut 56 is made of pure hydrocarbon and works as a replacement for ethanol. It shows its strengths in the machining of workpieces made of aluminium and plastics, especially in conjunction with DATRON's CleanCut chip extraction. The lubricant allows burr-free machining of the workpieces. It also prevents the formation of material work-ups on the tool. No explosion protection is required for chip extraction. ProCut 56 is completely volatile and leaves no residue on the workpiece. Thus, this MM-lubricant is especially appropriate for companies or departments where the use of ethanol is not allowed and for machining materials that react aggressively when in contact with ethanol. No further cleansing is required with this cooling lubricant.

Consumption without CleanCut: **80 ml/hour**  
(about. 30% of ethanol consumption)  
CleanCut consumption: **270 ml/hour**

| Art. No. | Liters<br>(per Package Size) | €<br>per Container |
|----------|------------------------------|--------------------|
| 0069266  | 10                           | 104,90             |



### DATRON ProCut 56-2

ProCut 56-2 is made of pure hydrocarbon with light lubrication and works as a replacement for ethanol. It is designed for Plexiglas machining or for materials with high surface quality. Thus, this MM-lubricant is especially appropriate for companies or departments where the use of ethanol is not allowed and for workpieces requiring high surface quality. Cleansing is required with this cooling lubricant.

Consumption without CleanCut: **95 ml/hour**  
CleanCut consumption: **200 ml/hour**

| Art. No. | Liter<br>(per Package Size) | €<br>per Container |
|----------|-----------------------------|--------------------|
| 0069266A | 10                          | 107,90             |



## DATRON ProCut 200

The lubricant ProCut 200 was specially developed for steel machining. Significantly longer tool durability is achieved when machining hard materials with the help of this very yielding MM lubricant. Final cleaning is required with this cooling lubricant.

Consumption: **20 ml/hour**

| Art. No. | Liters<br>(per Package Size) | €<br>per Container |
|----------|------------------------------|--------------------|
| 0069266B | 10                           | 119,90             |
| 0069266D | 5                            | 57,90              |



# General Information

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| Tool Technology                 | 112 |
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| Guide Values for Speed and Feed | 114 |
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| Individual Tools                | 115 |

DATRON

## Tool Technology



### Quality and Precision "Made in Germany":

The tools are manufactured on top-of-the-range, fully automatic grinding machines which results in constant high quality and an excellent price/efficiency ratio. Permanent quality control and research on our inhouse milling machines – also under extreme milling conditions – are your guarantee for the extraordinary quality and efficiency of the DATRON tools.

- Development
- Testing
- Production
- Drilling from 0.1 mm
- Milling from 0.1 mm
- Thread Milling from M1



### DATRON Technology:

The cutting geometry of the DATRON milling tools contains the DATRON know-how of more than 25 years in HSC cutting. Constant advancement and optimisation stand for state-of-the-art tools.

- Intelligent geometry
- Latest grinding machines
- Top-quality micro-grain Solid Carbide

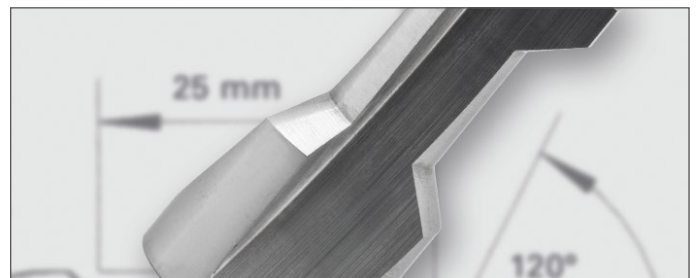


### Profitability:

Using DATRON's high-quality micrograin Solid Carbide tools will result in especially long tool life.

The tool's efficiency is further increased by a new coating.

- Maximum milling ability
- Maximum tool life
- Maximum process reliability



### Individual Tool Service:

DATRON special-purpose tools will solve your machining problem! On the basis of your drawings or specifications we will manufacture a Solid Carbide special-purpose tool in the high DATRON quality you can expect. Here we offer e. g. special mills for musical instruments, multi-level drills and special tools for forms and moulds.



# Coatings

## BALINIT® X.CEED Coating

Hardness and High Coating Adhesion

| Layer properties             |                         |
|------------------------------|-------------------------|
| Material                     | AlTiN                   |
| Micro hardness               | 3300 HV                 |
| Frictional value             | 0,4 (dry against Steel) |
| Max. application temperature | 900°C                   |
| Colour                       | blue-gray               |



Hardness, oxidation-resistance and thermal stability of X.CEED have been optimised for use in hard and high-speed machining. Even for high-strength and hard-to-cut materials, the layer protects against abrasion and adhesion over the entire cutting speed range. The good sliding properties reduce the cutting forces.

## BALINIT® ALCRONA Coating

Low Frictional Value and Hot Hardness

| Layer properties             |                          |
|------------------------------|--------------------------|
| Material                     | AlCrN                    |
| Micro hardness               | 3200 HV                  |
| Frictional value             | 0,35 (dry against Steel) |
| Max. application temperature | 1100°C                   |
| Colour                       | light-gray               |



Excellent wear-resistance, thermal shock stability and hot hardness – those are the properties, which have been decisively modified, in order to further improve the proven ALCRONA layer. By optimising the process parameters and modifying the layer structure, the performance profile of the new layer is significantly increased. ALCRONA is the new top allrounder in chip removal.

## BALINIT® ALNOVA Coating

High Thermal Shock Resistance, Good Chip Removal

| Layer properties             |                         |
|------------------------------|-------------------------|
| Material                     | AlCrN-basiert           |
| Micro hardness               | 3200 HV                 |
| Frictional value             | 0,3 (dry against Steel) |
| Max. application temperature | >1100°C                 |
| Colour                       | light-gray              |

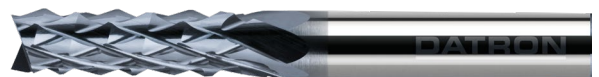


BALINIT® ALNOVA is especially characterized by optimal layer adhesion, high thermal shock resistance, good chip removal and extremely high tool stability at the cutting edges. With its extremely sturdy and smooth surface, the coating is ideally suited for tools exposed to very high machining temperatures.

## Diamond Coating

High Hardness and Chemical Resistance

| Layer properties             |                         |
|------------------------------|-------------------------|
| Material                     | Diamond                 |
| Micro hardness               | 10.000 HV               |
| Frictional value             | 0,4 (dry against Steel) |
| Max. application temperature | 700°C                   |
| Colour                       | dark-gray               |



The unique material properties of multilayer diamond coatings offer considerable performance potential, which can be used for machining graphite as well as carbide and ceramic green compacts. These highly abrasive materials can be machined very efficiently today, thanks to exactly constructed CVD diamond layers on carbide.

DATRON

# Guide Values for Speed and Feed

## Formulas for Calculating the Milling Parameters

### Formula

### Parameter

|                      |                                  |                                                                                                                                                                                                                                              |       |   |                        |     |   |                    |     |   |             |
|----------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|------------------------|-----|---|--------------------|-----|---|-------------|
| <b>Cutting Speed</b> | $V_c = \frac{\pi * d * n}{1000}$ | <table border="0"> <tr><td><math>V_c</math></td><td>=</td><td>Cutting Speed (mm/min)</td></tr> <tr><td><math>d</math></td><td>=</td><td>Tool Diameter (mm)</td></tr> <tr><td><math>n</math></td><td>=</td><td>Speed (rpm)</td></tr> </table> | $V_c$ | = | Cutting Speed (mm/min) | $d$ | = | Tool Diameter (mm) | $n$ | = | Speed (rpm) |
| $V_c$                | =                                | Cutting Speed (mm/min)                                                                                                                                                                                                                       |       |   |                        |     |   |                    |     |   |             |
| $d$                  | =                                | Tool Diameter (mm)                                                                                                                                                                                                                           |       |   |                        |     |   |                    |     |   |             |
| $n$                  | =                                | Speed (rpm)                                                                                                                                                                                                                                  |       |   |                        |     |   |                    |     |   |             |

|                   |                     |                                                                                                                                                                                                                                                                                                                  |       |   |                     |       |   |                     |     |   |             |     |   |                  |
|-------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|---------------------|-------|---|---------------------|-----|---|-------------|-----|---|------------------|
| <b>Feed Speed</b> | $V_f = f_z * n * z$ | <table border="0"> <tr><td><math>v_f</math></td><td>=</td><td>Feed Speed (mm/min)</td></tr> <tr><td><math>f_z</math></td><td>=</td><td>Tooth Feed (mm/min)</td></tr> <tr><td><math>n</math></td><td>=</td><td>Speed (rpm)</td></tr> <tr><td><math>z</math></td><td>=</td><td>Tooth Number (-)</td></tr> </table> | $v_f$ | = | Feed Speed (mm/min) | $f_z$ | = | Tooth Feed (mm/min) | $n$ | = | Speed (rpm) | $z$ | = | Tooth Number (-) |
| $v_f$             | =                   | Feed Speed (mm/min)                                                                                                                                                                                                                                                                                              |       |   |                     |       |   |                     |     |   |             |     |   |                  |
| $f_z$             | =                   | Tooth Feed (mm/min)                                                                                                                                                                                                                                                                                              |       |   |                     |       |   |                     |     |   |             |     |   |                  |
| $n$               | =                   | Speed (rpm)                                                                                                                                                                                                                                                                                                      |       |   |                     |       |   |                     |     |   |             |     |   |                  |
| $z$               | =                   | Tooth Number (-)                                                                                                                                                                                                                                                                                                 |       |   |                     |       |   |                     |     |   |             |     |   |                  |

|                         |                          |                                                                                                                                                                                                                                                                                                                   |       |   |                       |     |   |                                                 |          |   |                                                     |
|-------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|-----------------------|-----|---|-------------------------------------------------|----------|---|-----------------------------------------------------|
| <b>Cutting Capacity</b> | $P_c = \frac{Q}{V_{sp}}$ | <table border="0"> <tr><td><math>P_c</math></td><td>=</td><td>Cutting capacity (kW)</td></tr> <tr><td><math>Q</math></td><td>=</td><td>Chip Volume per UnitTime (cm<sup>3</sup>/min)</td></tr> <tr><td><math>V_{sp}</math></td><td>=</td><td>spec. Chip-Cutting Volume (cm<sup>3</sup>/min/kW)</td></tr> </table> | $P_c$ | = | Cutting capacity (kW) | $Q$ | = | Chip Volume per UnitTime (cm <sup>3</sup> /min) | $V_{sp}$ | = | spec. Chip-Cutting Volume (cm <sup>3</sup> /min/kW) |
| $P_c$                   | =                        | Cutting capacity (kW)                                                                                                                                                                                                                                                                                             |       |   |                       |     |   |                                                 |          |   |                                                     |
| $Q$                     | =                        | Chip Volume per UnitTime (cm <sup>3</sup> /min)                                                                                                                                                                                                                                                                   |       |   |                       |     |   |                                                 |          |   |                                                     |
| $V_{sp}$                | =                        | spec. Chip-Cutting Volume (cm <sup>3</sup> /min/kW)                                                                                                                                                                                                                                                               |       |   |                       |     |   |                                                 |          |   |                                                     |

|                                  |                       |                                                                                                                                                                                                                                                                                                                                                                    |     |   |                                                  |       |   |                                |       |   |                    |       |   |                     |
|----------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|--------------------------------------------------|-------|---|--------------------------------|-------|---|--------------------|-------|---|---------------------|
| <b>Chip Volume per Unit Time</b> | $Q = a_e * a_p * v_f$ | <table border="0"> <tr><td><math>Q</math></td><td>=</td><td>Chip Volume per Unit Time (cm<sup>3</sup>/min)</td></tr> <tr><td><math>a_e</math></td><td>=</td><td>Radial Working Engagement (mm)</td></tr> <tr><td><math>a_p</math></td><td>=</td><td>Cutting Depth (mm)</td></tr> <tr><td><math>v_f</math></td><td>=</td><td>Feed Speed (mm/min)</td></tr> </table> | $Q$ | = | Chip Volume per Unit Time (cm <sup>3</sup> /min) | $a_e$ | = | Radial Working Engagement (mm) | $a_p$ | = | Cutting Depth (mm) | $v_f$ | = | Feed Speed (mm/min) |
| $Q$                              | =                     | Chip Volume per Unit Time (cm <sup>3</sup> /min)                                                                                                                                                                                                                                                                                                                   |     |   |                                                  |       |   |                                |       |   |                    |       |   |                     |
| $a_e$                            | =                     | Radial Working Engagement (mm)                                                                                                                                                                                                                                                                                                                                     |     |   |                                                  |       |   |                                |       |   |                    |       |   |                     |
| $a_p$                            | =                     | Cutting Depth (mm)                                                                                                                                                                                                                                                                                                                                                 |     |   |                                                  |       |   |                                |       |   |                    |       |   |                     |
| $v_f$                            | =                     | Feed Speed (mm/min)                                                                                                                                                                                                                                                                                                                                                |     |   |                                                  |       |   |                                |       |   |                    |       |   |                     |

### Machining of Plastics

When machining plastics, such as duroplasts and thermo-plasts, generally select lower speeds and higher feeds as compared to aluminium.

### Engraving with Engraving Tools

Select the following values for engraving aluminium or brass with a graver:  
 Speed approx. 30,000 rpm  
 Feed approx. 0.7 m/min

# Competence Center Tools

In order to consult you individually, we have established the DATRON Competence Center Tools (CCT). This specialist team is your first and central contact for all technical inquiries regarding tools.

# Individual Tools

**Do you need a special tool?  
This is no problem at DATRON!**

DATRON produces individual tools for your special application reflecting your requirements. These tools represent DATRON top quality being manufactures according to your drawings/ specifications on the most modern, fully automatic grinding machines. Examples are stepped milling tools, stepped drills, special form and micro tools.

Simply enter your data in the table below and send it to us via fax or e-mail.

**By fax to:** +49 (0)6151-14 19-29

**By e-mail to:** cct@datron.de

| Name                                               | Your Individual Data |
|----------------------------------------------------|----------------------|
| <b>Milling Tool Comparable with Article Number</b> | <b>Art. No.:</b>     |
| <b>D1</b> Cutting Edge Diameter                    |                      |
| <b>D2</b> Shank Diameter                           |                      |
| <b>D3</b> Toric Cut Diameter                       |                      |
| <b>L1</b> Total Length*                            |                      |
| <b>L2</b> Cutting Edge Length                      |                      |
| <b>L3</b> Effective Length, Toric Cut              |                      |
| <b>R</b> Radius                                    |                      |
| <b>BS</b> Coating                                  |                      |

\*The total length L1 can vary.

**Remarks**

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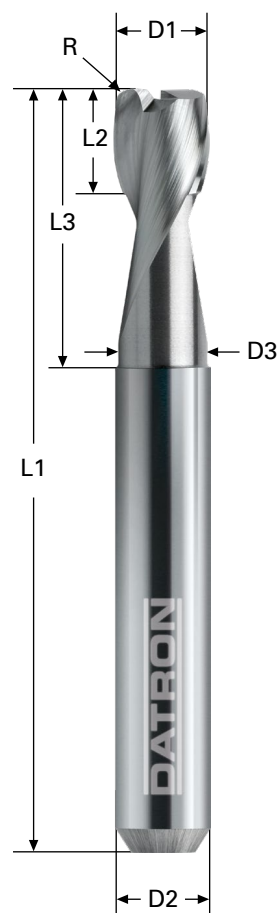
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