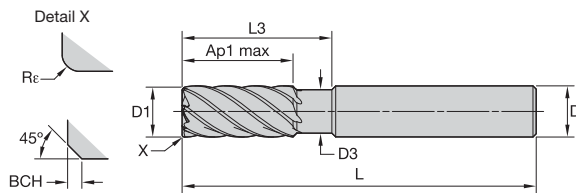
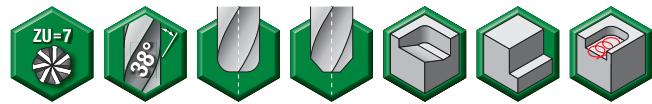


# High-Performance Solid Carbide End Mills • VariMill™

Series 77NE • VariMill III™ ER • With Neck • Victory™ Grades



- Unequal flute spacing.
- Centre cutting.
- Ramping angle 3°.
- Optimised for difficult-to-machine workpiece materials.
- Semi-finishing to finishing applications.
- High-speed machining capability.
- Standard items listed. Additional styles and coatings made-to-order.

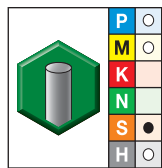


End Mill Tolerances

| D1      | tolerance e8  | D       | tolerance h6 + / - |
|---------|---------------|---------|--------------------|
| ≤ 3     | -0,014/-0,028 | ≤ 3     | 0/-0,006           |
| > 3-6   | -0,020/-0,038 | > 3-6   | 0/-0,008           |
| > 6-10  | -0,025/-0,047 | > 6-10  | 0/-0,009           |
| > 10-18 | -0,032/-0,059 | > 10-18 | 0/-0,011           |
| > 18-30 | -0,040/-0,073 | > 18-30 | 0/-0,013           |



Series 77NE • VariMill III ER • With Neck • Victory Grades



WS15PE  
AlTiN

- first choice
- alternate choice

| order # | catalogue # | D1   | D  | D3    | length of cut Ap1 max | L3    | length L | Rε   | BCH  |
|---------|-------------|------|----|-------|-----------------------|-------|----------|------|------|
| 5978039 | 77NE10004T  | 10,0 | 10 | 9,40  | 22,00                 | 30,00 | 76       | —    | 0,50 |
| 5978040 | 77NE10024T  | 10,0 | 10 | 9,40  | 22,00                 | 30,00 | 76       | 0,50 | —    |
| 5978096 | 77NE12005T  | 12,0 | 12 | 11,28 | 26,00                 | 36,00 | 83       | —    | 0,50 |
| 5978097 | 77NE12025T  | 12,0 | 12 | 11,28 | 26,00                 | 36,00 | 83       | 0,50 | —    |
| 5978104 | 77NE16006T  | 16,0 | 16 | 15,04 | 32,00                 | 48,00 | 100      | —    | 0,50 |
| 5978105 | 77NE16026T  | 16,0 | 16 | 15,04 | 32,00                 | 48,00 | 100      | 0,50 | —    |
| 5978112 | 77NE20007T  | 20,0 | 20 | 18,80 | 38,00                 | 60,00 | 115      | —    | 0,50 |
| 5978113 | 77NE20027T  | 20,0 | 20 | 18,80 | 38,00                 | 60,00 | 115      | 0,50 | —    |

High-Performance Solid Carbide End Mills

