STELLRAM



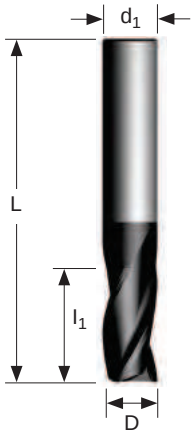

## Solid Carbide
General Purpose - End Milling

Materials Application

**SP4060**

| P | M | K | N | S | H |
|---|---|---|---|---|---|

PVD




**3 - Flute End Mill**

| Metric Product | | Dimensions (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| *EDP* | **Item Description** | D | L | $l_1$ | $d_1$ | $a_p$ max* | No. of Teeth | Helical Hole min - max | | Trochoidal min |
| *034195* | **E 030NN3** | 3,00 | 38,00 | 12,00 | 3,00 | 12,00 | 3 | 4,29 | 5,85 | 4,29 |
| *034196* | **E 040NN3** | 4,00 | 50,00 | 14,00 | 4,00 | 14,00 | 3 | 5,72 | 7,80 | 5,72 |
| *034197* | **E 050NN3** | 5,00 | 50,00 | 16,00 | 5,00 | 16,00 | 3 | 7,15 | 9,75 | 7,15 |
| *034198* | **E 060NN3** | 6,00 | 63,00 | 19,00 | 6,00 | 19,00 | 3 | 8,58 | 11,70 | 8,58 |
| *034199* | **E 080NN3** | 8,00 | 63,00 | 19,00 | 8,00 | 19,00 | 3 | 11,44 | 15,60 | 11,44 |
| *034200* | **E 100NN3** | 10,00 | 70,00 | 22,00 | 10,00 | 22,00 | 3 | 14,30 | 19,50 | 14,30 |
| *034201* | **E 120NN3** | 12,00 | 75,00 | 25,00 | 12,00 | 25,00 | 3 | 17,16 | 23,40 | 17,16 |
| *034202* | **E 160NN3** | 16,00 | 88,00 | 32,00 | 16,00 | 32,00 | 3 | 22,88 | 31,20 | 22,88 |
| *034203* | **E 200NN3** | 20,00 | 100,00 | 38,00 | 20,00 | 38,00 | 3 | 28,60 | 39,00 | 28,60 |

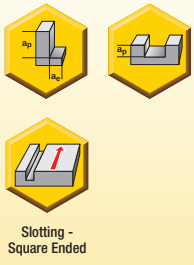
**E_NN3 - Radial $a_e$ and Axial $a_p$ depth of cut range**

| Product | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|
| Grade | Shoulder Milling | | | | | | Slotting |
| | Roughing | | | Finishing | | | |
| | $a_e$% | $a_p$% | $f_z$ | $a_e$% | $a_p$% | $f_z$ | $a_p$% |
| SP4556 | 0,1 - 0,5 D | 0,5 - 2 D | Mid - High | 0,05 - 0,1 D | 0,5 - 2 D | Low - Mid | 0,1 - 0,5 D |

*** When using $a_p$ max, $a_e$ should not exceed 0.1D**

Note: For ramping angle, helical $a_p$ max. and trochoidal application details, refer to pages B88 - B89.

See pages B93 - B102 for EDP - Description - Previous Part Number Cross Reference charts.



Slotting - Square Ended

General Purpose End Mills