

UNI-PRO Ball Nose (4-Flute) - Inch - XL Long Length



center cutting



XL Long



No. Flutes



Helix angle



Radius



Rake Angle



Roughing



Ramping



Helix



Copy Milling



HA



HA

Tool material

Solid Carbide

Surface finish

bright

FIREX®

Series

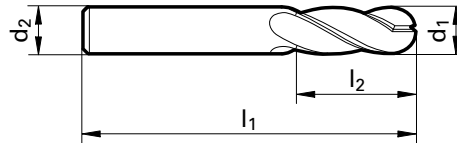
3162

3166

| Application group | Material examples | Ideal for |
|-------------------|-------------------|-----------|
| P | Steel | ● |
| M | Stainless steel | ● |
| K | Cast iron | ● |
| N | Aluminum | ● |
| S | Ni / Ti alloys | ○ |
| H | Hardened steel | -- |

●=Optimal ○=Secondary

Speed and Feed data found on page 289



| d1 h10 | d2 h6 | l1 | l2 | No. of Flutes | Code no. | EDP Number | |
|--------|-------|------|-------|---------------|----------|---------------|---------------|
| inch | inch | inch | inch | | | | |
| 3/16 | 3/16 | 3 | 1 1/4 | 4 | 4.760 | 9031620047600 | 9031660047600 |
| 1/4 | 1/4 | 4 | 1 5/8 | 4 | 6.350 | 9031620063500 | 9031660063500 |
| 5/16 | 5/16 | 4 | 1 5/8 | 4 | 7.940 | 9031620079400 | 9031660079400 |
| 3/8 | 3/8 | 4 | 1 5/8 | 4 | 9.520 | 9031620095200 | 9031660095200 |
| 7/16 | 7/16 | 5 | 2 | 4 | 11.110 | 9031620111100 | 9031660111100 |
| 1/2 | 1/2 | 6 | 3 | 4 | 12.700 | 9031620127000 | 9031660127000 |
| 5/8 | 5/8 | 6 | 3 | 4 | 15.870 | 9031620158700 | 9031660158700 |
| 3/4 | 3/4 | 6 | 3 | 4 | 19.050 | 9031620190500 | 9031660190500 |