

MILLING INSERTS

Milling Inserts with Hole

Usage Classification

- ★ Roughing / 1st Choice
- ☆ Roughing / 2nd Choice
- Finishing / 1st Choice
- Finishing / 2nd Choice (Hardness Under 45HRC)

| | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|--|--|--|--|---|---|--|--|---|---|--|--|--|--|--|
| P | Free-Cutting Steel Carbon/Alloy Steel | ■ | | | | | | ★ | ☆ | | | | | | | | | |
| M | Austenitic Stainless Steel Martensitic Stainless Steel Precipitation Hardened Stainless Steel | | ★ | | | | | ☆ | | | | | | | | | | |
| K | Gray Cast Iron Nodular Cast Iron | | | | | | | | | | | ★ | ☆ | | | | | |
| N | Non-ferrous Metals | | | | | | | | | | | | | | | | | |
| S | Heat-Resistant Alloys Titanium Alloy | | ★ | | | | | ☆ | | | | | ☆ | | | | | |
| H | Hard Materials | | | | | | | | | | | | | | | | | |

| Insert (Right-hand Shown) | Part Number | Dimensions (in) | | | | | Angle (°) | | | Cemet | CVD Coated Carbide | MEGACOAT NANO | MEGA COAT | SNC* | CVD SNC* | Toolholder Page | |
|--|------------------|-----------------|--------|--------|--------|--------|-----------|--------|--------|-------|--------------------|---------------|-----------|------|----------|--------------------|--------|
| | | A | T | Ød | W (X) | Z | rε | α | β | | | | | | | | γ |
| | | TN100M | CA6535 | CA420M | PR1535 | PR1525 | PR1510 | PR1225 | PR1210 | | | | | | | | KS6050 |
| Ground Edge High Precision (Finishing) | PNEU 1205ANER-GL | 0.689 | 0.219 | 0.244 | 0.106 | 0.106 | - | - | - | - | ○ | ● | ● | ● | ● | | |
| General Purpose | PNMU 1205ANER-GM | 0.704 | 0.219 | 0.244 | 0.079 | 0.079 | - | - | - | - | ○ | ● | ● | ● | ● | | |
| Low Cutting Force | PNMU 1205ANER-SM | 0.704 | 0.219 | 0.244 | 0.079 | 0.079 | - | - | - | - | ○ | ● | ● | ● | ● | | |
| Tough Edge (Heavy Milling) | PNMU 1205ANER-GH | 0.708 | 0.243 | 0.244 | 0.079 | 0.079 | - | - | - | - | ○ | ○ | ● | ● | ● | | |
| Wiper Insert (2-edge) | PNEU 1205ANER-W | 0.703 | 0.219 | 0.244 | 0.091 | 0.319 | - | - | - | - | ● | ○ | ○ | ● | ● | | |
| Ground Edge High Precision (Finishing) | PNEU 1205ANEL-GL | 0.689 | 0.219 | 0.244 | 0.106 | 0.106 | - | - | - | - | ○ | ○ | ○ | ● | | | C3 |
| General Purpose | PNMU 1205ANEL-GM | 0.704 | 0.219 | 0.244 | 0.079 | 0.079 | - | - | - | - | ○ | ○ | ○ | ○ | | | C3 |

*SNC: Silicon Nitride Ceramic
*CVD SNC: CVD Coated Silicon Nitride Ceramic

| | |
|--------------------|----------|
| GRADES | A |
| LINEUP / INSERTS | B |
| 45° / 70° LEAD | C |
| 75° LEAD | D |
| 90° LEAD | E |
| HIGH FEED | F |
| MULTI-FUNCTION | G |
| SLOT MILLS | H |
| RADIUS / BALL-NOSE | J |
| OTHER APPLICATIONS | K |
| TOOL HOLDING | O |
| SPARE PARTS | P |
| TECHNICAL | R |
| INDEX | T |