

ALU-POWER
END MILLS

E5981 SERIES

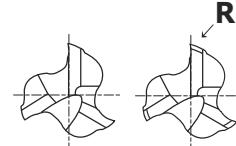
PLAIN SHANK

E5983 SERIES

PLAIN SHANK

CARBIDE, 3 FLUTE 45° HELIX REGULAR LENGTH & CORNER RADIUS

- High velocity milling of aluminum & other non-ferrous materials.
- 3 flute and 45° helix allow harmonic balance at high speed condition and smooth cutting.
- Improved surface roughness-cylindrical margin which is controlled tightly
- Maximum-metal removal rate.
- Superior chip evacuation.
- Mirror face-excellent surface finish.



P.723

◆ U.S.A Stock

■ SQUARE

Unit : Inch

| EDP No. | | Mill Diameter | Shank Diameter | Length of Cut | Overall Length |
|----------|-------------|---------------|----------------|---------------|----------------|
| UNCOATED | TiCN COATED | | | | |
| 28558 | 28558TC | 1/8 | 1/8 | 3/8 | 1-1/2 |
| 28565 | 28565TC | 3/16 | 3/16 | 9/16 | 2 |
| 28573 | 28573TC | 1/4 | 1/4 | 5/8 | 2-1/2 |
| 28579 | 28579TC | 5/16 | 5/16 | 5/8 | 2-1/2 |
| 28584 | 28584TC | 3/8 | 3/8 | 1 | 2-1/2 |
| 28588 | 28588TC | 7/16 | 7/16 | 1-1/4 | 2-3/4 |
| 28593 | 28593TC | 1/2 | 1/2 | 1-1/4 | 3 |
| 28595 | 28595TC | 5/8 | 5/8 | 1-5/8 | 3-1/2 |
| 28598 | 28598TC | 3/4 | 3/4 | 1-5/8 | 4 |
| 28600 | 28600TC | 1 | 1 | 2 | 5 |

■ CORNER RADIUS

Unit : Inch

| UNCOATED | TiCN COATED | Corner Radius R | Mill Diameter | Shank Diameter | Length of Cut | Overall Length |
|----------|-------------|-----------------|---------------|----------------|---------------|----------------|
| EA50321 | EA50321C | R.060 | 1/2 | 1/2 | 1-1/4 | 3 |
| EA50401 | EA50401C | R.060 | 5/8 | 5/8 | 1-5/8 | 3-1/2 |
| EA50481 | EA50481C | R.060 | 3/4 | 3/4 | 1-5/8 | 4 |
| EA50641 | EA50641C | R.065 | 1 | 1 | 2 | 5 |
| EA20321 | EA20321C | R.120 | 1/2 | 1/2 | 1-1/4 | 3 |
| EA20401 | EA20401C | R.120 | 5/8 | 5/8 | 1-5/8 | 3-1/2 |
| EA20481 | EA20481C | R.120 | 3/4 | 3/4 | 1-5/8 | 4 |
| EA20641 | EA20641C | R.120 | 1 | 1 | 2 | 5 |

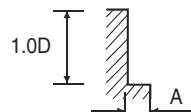
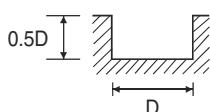
| Mill Dia. Tolerance (inch) | Shank Dia. Tolerance |
|-------------------------------|-------------------------|
| 0~-.0005 | 0~-.0003 |

◎ : Excellent ○ : Good

| Carbon Steels | Alloy Steels | Prehardened Steels | Hardened Steels | High Hardened Steels | Copper | Graphite | Cast Iron | Aluminum | Stainless Steels | Titanium | Inconel |
|---------------|--------------|--------------------|-----------------|----------------------|----------|----------|-----------|----------|------------------|----------|---------|
| ~HRc20 | HRc20~30 | HRc30~40 | HRc40~45 | HRc45~55 | HRc55~70 | | | | | | |
| | | | | | | | | | ◎ | | |


CARBIDE, 3 FLUTE 45° HELIX FINISH
E5980, E5981, E5982, E5983, E5984 SERIES

| MATERIAL | ALUMINUM NONFERROUS METALS | | ALUMINUM NONFERROUS METALS | |
|----------|-------------------------------|------|-------------------------------|-------|
| | DIAMETER | RPM | FEED | RPM |
| 1/8 | 10000 | 33.1 | 10000 | 42.5 |
| 5/32 | 10000 | 42.5 | 10000 | 52.0 |
| 3/16 | 10000 | 47.3 | 10000 | 61.4 |
| 1/4 | 10000 | 56.7 | 10000 | 70.9 |
| 5/16 | 8000 | 66.2 | 8000 | 85.1 |
| 3/8 | 8000 | 80.3 | 8000 | 99.2 |
| 1/2 | 8000 | 99.2 | 8000 | 122.9 |
| 9/16 | 6000 | 85.1 | 6000 | 104.0 |
| 5/8 | 6000 | 89.8 | 6000 | 113.4 |
| 11/16 | 4000 | 66.2 | 4000 | 85.1 |
| 13/16 | 4000 | 75.6 | 4000 | 89.8 |



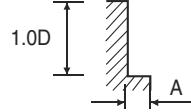
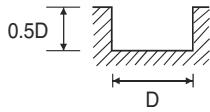
A : $\varnothing 1/8 \sim \varnothing 3/8 = 0.25 \times D$
 $\varnothing 1/2 \sim \varnothing 13/16 = 0.5 \times D$

※ The Feed, in long & extra long types, should be reduced by around 50%.

RPM = rev./min.
FEED = inch/min.

CARBIDE, 3 FLUTE 45° HELIX FINISH TiCN COATED
EG980, EG981, EG982, EG983, EG984 SERIES

| MATERIAL | ALUMINUM NONFERROUS METALS | | ALUMINUM NONFERROUS METALS | |
|----------|-------------------------------|-------|-------------------------------|-------|
| | DIAMETER | RPM | FEED | RPM |
| 1/8 | 15600 | 43.0 | 12000 | 55.3 |
| 5/32 | 15600 | 55.3 | 12000 | 67.6 |
| 3/16 | 15600 | 61.4 | 12000 | 79.8 |
| 1/4 | 15600 | 73.7 | 12000 | 92.2 |
| 5/16 | 12000 | 86.0 | 9600 | 110.6 |
| 3/8 | 12000 | 104.4 | 9600 | 129.0 |
| 1/2 | 12000 | 128.9 | 9600 | 159.8 |
| 9/16 | 9600 | 110.6 | 7200 | 135.2 |
| 5/8 | 9600 | 116.7 | 7200 | 147.4 |
| 11/16 | 6000 | 86.0 | 4800 | 110.6 |
| 13/16 | 6000 | 98.3 | 4800 | 116.7 |



A : $\varnothing 1/8 \sim \varnothing 3/8 = 0.25 \times D$
 $\varnothing 1/2 \sim \varnothing 13/16 = 0.5 \times D$

※ The Feed, in long & extra long types, should be reduced by around 50%.

RPM = rev./min.
FEED = inch/min.