

YG SPEED FREEK END MILLS

EK226 SERIES FLAT SHANK

T15, 3 FLUTE 42° HELIX & MEDIUM LENGTH ROUGHING for ALUMINUM

- ▶ High performance metal removal in aluminum alloys.
- ▶ Corner radius against chipping



T15
ALU
3
42°
FLAT
P.732

◆ U.S.A Stock

■ SQUARE

Unit : Inch

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length
UNCOATED	TiCN COATED				
80524	80524 PC	3/4	3/4	2-1/4	4-5/8
80540	80540 PC	1	1	3	5-1/2
80541	80541 PC	1-1/4	1-1/4	3	5-1/2
80542	80542 PC	1-1/2	1-1/4	3	5-1/2
* 80543	* 80543 PC	2	2	3	6-3/4

* Combination Shank

T15
ALU
3
42°
R ±.001
FLAT
P.732

◆ U.S.A Stock

■ with CORNER RADIUS

Unit : Inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
UNCOATED	TiCN COATED	R				
80901	80901 PC	R .060	3/4	3/4	2-1/4	4-5/8
80902	80902 PC	R .090	3/4	3/4	2-1/4	4-5/8
80903	80903 PC	R .120	3/4	3/4	2-1/4	4-5/8
80904	80904 PC	R .060	1	1	3	5-1/2
80905	80905 PC	R .090	1	1	3	5-1/2
80906	80906 PC	R .120	1	1	3	5-1/2
80907	80907 PC	R .060	1-1/4	1-1/4	3	5-1/2
80908	80908 PC	R .090	1-1/4	1-1/4	3	5-1/2
80909	80909 PC	R .120	1-1/4	1-1/4	3	5-1/2

■ The TiN coated, or TiAlN coated is available on your request.

Mill Dia. Tolerance (inch)	
up to 1	0~+.0030
over 1	0~+.0060

◎ : 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							
									◎			



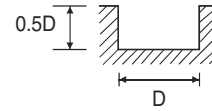
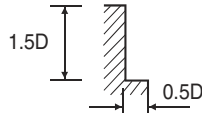
**SPEED FREEK
END MILLS**

RECOMMENDED CUTTING CONDITIONS

PREMIUM HSS-PM, 3 FLUTE 42° HELIX ROUGHING TiAIN COATED

EP922, EP924 SERIES

MATERIAL	ALUMINUM ALUMINUM ALLOY			
	DIAMETER	RPM	FEED	FEED
12.0	2800	16.1	2800	21.7
16.0	2200	18.3	2200	24.6
20.0	1700	20.7	1700	27.6
25.0	1400	18.3	1400	24.6
32.0	1100	20.7	1100	27.6



※ The FEED, in long & long reach types, should be reduced by around 50%

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

SPEED FREEK

**YG T-15 3 FLUTE ALUMINUM ROUGHER
SPEEDS & FEEDS**

MATERIAL	UNCOATED	TiCN	CHIP LOAD PER TOOTH & CUTTING DIAMETER				
	SFM	SFM	1/2	3/4	1.00	1.25	2.00
ALUMINUM [SOFT]	250-500	400-2,500	.005	.007	.010	.012	.015
AIRCRAFT ALUMINUM [UNDER 10% SILICON]	250-750	500-3,250	.005	.007	.010	.012	.015

3/4 DIA. / TiCN COATED / 10,186 RPM [2,000 SFM] @ 213 IPM

SFM	$0.262 \times \text{CUTTER DIA} \times \text{RPM}$	FPT	$\frac{\text{IPM}}{N \times \text{RPM}}$
RPM	$3.82 \times \frac{\text{SFM}}{\text{CUTTER DIA}}$	IPR	$\frac{\text{IPM}}{\text{RPM}}$
IPM	$\text{FPT} \times N \times \text{RPM}$	CUTTING TIME	$\frac{\text{LENGTH OF CUT}}{\text{IPM}}$

SFM = SURFACE FEET PER MINUTE
RPM = REVOLUTIONS PER MINUTE
N = NUMBER OF TEETH
IPR = INCHES PER REVOLUTION
IPM = INCHES PER MINUTE
FPT = FEED PER TOOTH

CBN
END MILL

i-Xmill
END MILL

X5070
END MILLS

4G MILLS
END MILLS

X-SPEED
ROUGHER
END MILLS

X-POWER
END MILLS

JET-POWER
END MILLS

V7 Mill STEEL
END MILLS

V7 Mill INOX
END MILLS

ALU-POWER
END MILLS

D-POWER
END MILLS

STANDARD
CARBIDE
END MILLS

TANK-POWER
END MILLS

STANDARD
COBALT
& HSS
END MILLS

TECHNICAL
DATA