



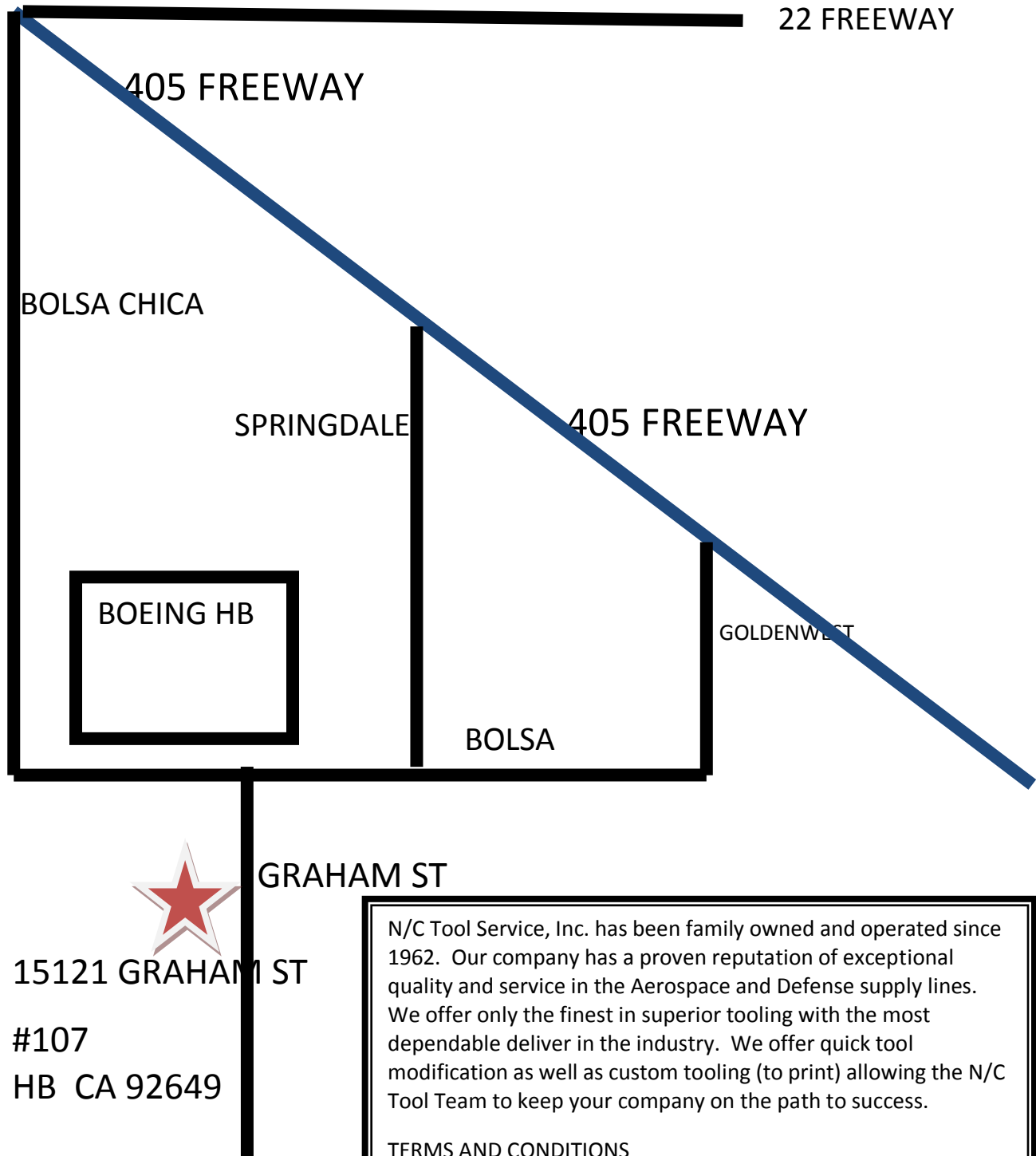
AEROSPACE AND DEFENSE



888-857-6835



OUR NEW LOCATION AT 15121 GRAHAM ST #107 HUNTINGTON BEACH CA



15121 GRAHAM ST

#107

HB CA 92649

N/C Tool Service, Inc. has been family owned and operated since 1962. Our company has a proven reputation of exceptional quality and service in the Aerospace and Defense supply lines. We offer only the finest in superior tooling with the most dependable deliver in the industry. We offer quick tool modification as well as custom tooling (to print) allowing the N/C Tool Team to keep your company on the path to success.

TERMS AND CONDITIONS

1% 10 NET 30 ON APPROVED CREDIT, CHECKS OR CREDIT CARDS ACCEPTED

WE OFFER ADDITIONAL ITEMS, CALL FOR A QUOTE

714-891-0284

TABLE OF CONTENTS

HSS 2 FLUTE 37°HELIX FINISHING (MINICUT)	PG 1
HSS 2 FLUTE 38° HELIX FINISHING (FASTCUT)	PG 2
HSS 3 FLUTE 37° HELIX FINISHING (MINICUT)	PG 3
HSS 3 FLUTE 38° HELIX FINISHING (FASTCUT)	PG 4
P.M. T-15 3 FL 42° FINISHING (YG1)	PG 5
COBALT 3 FL CORSE 35° HELIX ROUGHING (MINICUT)	PG 6
COBALT 3 FL 35° HEIX ROUGH AND FINISH (FASTCUT)	PG 7
COBALT 3 FLUTE 43° HELIX ROUGH AND FINISH (MINICUT)	PG 8
P.M. T-15 3 FLUTE 42° HELIX TRUNCATED ROUGHER (YG1)	PG 9
P.M. 3 FLUTE 41° HELIX TUNCATED ROUGHER (FASTCUT)	PG 10
COBALT MULTI FLUTE 35° FINISHING (MINICUT)	PG 11
COBALT MULTI FLUTE 35° FINISHING (FASTCUT)	PG 12
COBALT MULTI FLUTE CORSE AND FINE ROUGHING (MINICUT)	PG 13
P.M. 60 MULTI FLUTE CORSE AND FINE ROUGHING (YG1)	PG 14
COBALT MULTI FLUTE MINICUT ROUGHER (MINICUT)	PG 15
COBALT MULTI FLUTE CRESTKUT ROUGHER (WELDON)	PG 16
COBALT MULTI FLUTE TRUNCATED ROUGHER (FASTCUT)	PG 17
PERFORMANCE CARBIDE	PG 18
CARBIDE 2 FLUTE 40° HELIX (WELDON)	PG 19
CARBIDE 2 FLUTE 45° HELIX VIPER (DESTINY)	PG 20
CARBIDE 2 FLUTE 42° HELIX (YG1)	PG 21
CARBIDE 2 & 3 FLUTE 45° HELIX EXTENDED SHANK VIPER (DESTINY)	PG 22
CARBIDE 2 FLUTE BALL 50° & 37° HELIX (YG1)	PG 23
CARBIDE 2 & 3 FLUTE 45° SKI-CARB (WELDON)	PG 24
CARBIDE 3 FLUTE 40° HELIX AND RADIUS (WELDON)	PG 25
CARBIDE 3 FLUTE 45° HELIX VIPER (DESTINY)	PG 26
CARBIDE 3 FLUTE 45° HELIX STUB AND REGULAR (YG1)	PG 27
CARBIDE 3 FLUTE 37° HELIX EXTENDED SHANK (YG1)	PG 28
CARBIDE 3 FLUTE 45° HELIX DIAMONDBACK ROUGHER (DESTINY)	PG 29
CARBIDE 4 FLUTE VARIABLE HELIX V7 (YG1)	PG 30
CARBIDE 4 & 5 FLUTE VARIABLE HELIX ENTENDED NECK & BALL V7 (YG1)	PG 31
CARBIDE 4 FLUTE DOUBLE VARIABLE HELIX RAPTOR (DESTINY)	PG 32
CARBIDE 5 FLUTE 45° HELIX (MINICUT)	PG 33
CARBIDE 5 FLUTE 40° HELIX AND RADIUS (WELDON)	PG 34
CARBIDE MULTI FLUTE ROUGHING 30° & 45° HELIX (YG1)	PG 35
CARBIDE 2 & 4 FLUTE 30° HELIX REGULAR LENGTH (YG1)	PG 36
CARBIDE 4 FLUTE 30° HELIX RADIUS REGULAR LENGTH (YG1)	PG 37
CARBIDE 2 & 4 FLUTE 30° HELIX STUB AND DOUBLE END STUB (YG1)	PG 38
CARBIDE 2 & 4 FLUTE 30° HELIX LONG AND EX-LONG (YG1)	PG 39
CARBIDE 2 & 4 FLUTE 30° HELIX BALL REGULAR LENGTH (YG1)	PG 40
CARBIDE 2 & 4 FLUTE 30° HELIX BALL LONG AND EX-LONG (YG1)	PG 41
CAT 40 & 50 HOLDERS STUB – REG- EXTENDED (YG1)	PG 42
COBALT JOBBER LENGTH DRILLS (YG1)	PG 43
GRINDING AND COATING	PG 44

2 Flute High Helix end mills for Aluminum For slotting and finishing applications

Regular length – Center Cutting

DIA	SHANK	LOC	OAL	# OF FLUTES	EDP#	PRICE
1/8	3/8	3/8	2-5/16	2	275-4	13.00
3/16	3/8	1/2	2-3/8	2	275-6	13.00
1/4	3/8	5/8	2-7/16	2	275-8	13.00
5/16	3/8	3/4	2-1/2	2	275-10	13.00
3/8	3/8	3/4	2-1/2	2	275-12	13.00
7/16	3/8	1	2-11/16	2	275-14	16.50
1/2	1/2	1-1/4	3-1/4	2	275-16	18.00
5/8	5/8	1-5/8	3-3/4	2	275-20	21.50
3/4	3/4	1-5/8	3-7/8	2	275-24	25.50
7/8	7/8	1-7/8	4-1/8	2	275-28	34.50
1	1	2	4-1/2	2	275-32	42.00
1-1/4	1-1/4	2	4-1/2	2	275-40	65.00
1-1/2	1-1/4	2	4-1/2	2	275-48	74.50
1-3/4	1-1/4	2	4-1/2	2	275-56	99.50
2	1-1/4	2	4-1/2	2	275-64	120.00

Medium length – Center Cutting

5/8	5/8	2	4-1/8	2	276-20	27.00
3/4	3/4	2-1/4	4-1/2	2	276-24	31.00
1	1	3	5-1/2	2	276-32	54.50
1-1/4	1-1/4	3	5-1/2	2	276-40	78.00
1-1/2	1-1/4	3	5-1/2	2	276-48	95.00
2	1-1/4	3	5-1/2	2	276-64	147.00
2	2	3	6-3/4	2	276-64-3	CALL

Long length – Center cutting

1/4	3/8	1-1/4	3-1/16	2	280-8	15.00
5/16	3/8	1-3/8	3-1/8	2	280-10	15.00
3/8	3/8	1-1/2	3-1/4	2	280-12	15.00
7/16	1/2	1-3/4	3-3/4	2	280-14	21.00
1/2	1/2	2	4	2	280-16	21.50
5/8	5/8	2-1/2	4-5/8	2	280-20	29.50
3/4	3/4	3	5-1/4	2	280-24	36.50
7/8	7/8	3-1/2	5-3/4	2	280-28	46.00
1	1	4	6-1/2	2	280-32	63.50
1-1/4	1-1/4	4	6-1/2	2	280-40	84.50
1-1/2	1-1/4	4	6-1/2	2	280-48	103.00
2	1-1/4	4	6-1/2	2	280-64	164.50
2	2	4	7-3/4	2	280-64-4	Call

Extra long length – Center Cutting

1/4	3/8	1 3/4	3 9/16	2	285-8	17.50
5/16	3/8	2	3 3/4	2	285-10	18.00
3/8	3/8	2 1/2	4 1/4	2	285-12	18.50
7/16	1/2	2 3/4	4 3/4	2	285-14	24.50
1/2	1/2	3	5	2	285-16	30.00
5/8	5/8	4	6 1/8	2	285-20	36.00
3/4	3/4	4	6 1/4	2	285-24	44.50
7/8	7/8	5	7 1/4	2	285-28	57.50
1	1	6	8 1/2	2	285-32	79.50
1-1/4	1-1/4	6	8 1/2	2	285-40	109.50
1-1/2	1-1/4	6	8 1/2	2	285-48-6	133.00
1 1/2	1-1/4	8	10 1/2	2	285-48-8	163.50
2	2	6	9 3/4	2	285-64-6	Call
2	2	8	11 3/4	2	285-64-8	Call



PRICE TO ADD RAD
.030 - .187 \$16.00
.250- .500 \$23.00

2012

Minicut endmills are manufactured to the NAS 986 specifications (Aerospace Standards)

ADD A RADIUS OR BALL 888-857-6835 or 714-891-0284

PAGE 1

FASTCUT 2 FLUTE 38 DEGREE HIGH HELIX M-7 HSS WITH ZIRCONIUM NITRIDE COATING

CUTTER DIA	SHANK DIA	LOC	OAL	Uncoated EDP	UNCOATED PRICE	ZRN PRICE
1/2	1/2	1 1/4	3 1/4	70028	18.00	23.50
1/2	1/2	1 5/8	3 5/8	70029	20.50	27.00
1/2	1/2	2	4	70430	21.00	28.50
1/2	1/2	3	5	70631	24.50	31.00
5/8	5/8	1 5/8	3 3/4	70036	23.00	31.00
5/8	5/8	2	4 1/8	70037	33.50	43.00
5/8	5/8	2 1/2	4 5/8	70438	34.00	46.50
5/8	5/8	3	5 1/8	70237	35.00	52.50
5/8	5/8	4	6 1/8	70639	36.50	54.50
3/4	3/4	1 5/8	3 7/8	70045	26.00	35.00
3/4	3/4	2 1/4	4 1/2	70046	36.00	47.00
3/4	3/4	3	5 1/4	70447	36.00	49.00
3/4	3/4	4	6 1/4	70648	42.50	56.50
7/8	7/8	1 7/8	4 1/8	70054	37.00	49.50
7/8	7/8	3 1/2	5 3/4	70456	47.50	63.50
7/8	7/8	5	7 1/4	70657	60.00	78.50
1	1	2	4 1/2	70066	42.50	56.50
1	1	3	5 1/2	70267	49.50	69.00
1	1	4	6 1/2	70468	62.00	81.00
1	1	6	8 1/2	70669	77.50	99.50
1 1/4	1 1/4	2	4 1/2	70075	64.50	84.50
1 1/4	1 1/4	3	5 1/2	70276	79.50	99.50
1 1/4	1 1/4	4	6 1/2	70477	89.00	114.00
1 1/4	1 1/4	6	8 1/2	70678	109.50	139.50
1 1/2	1 1/4	2	4 1/2	70083	89.00	106.50
1 1/2	1 1/4	3	5 1/2	70284	99.50	123.00
1 1/2	1 1/4	4	6 1/2	70485	114.00	139.00
1 1/2	1 1/4	6	8 1/2	70684	142.00	169.50
1 1/2	1 1/4	8	10 1/2	70686	165.00	199.50
2	1 1/4	2	4 1/2	70092	124.50	159.50
2	1 1/4	3	5 1/2	70293	159.50	199.50
2	1 1/4	4	6 1/2	70494	189.00	239.00

ADD ZRN TO THE END OF EDP# TO ADD ZRN COATING ex 70494ZRN

2012

AEROSPACE AND DEFENSE APPROVED
ANSI & NAS 986 AND TYPE 21 SPECIFICATIONS

PRICE TO ADD RAD
.030 - .187 \$16.00
.250 - .500 \$23.00



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714-891-0284 fax-714-891-0296

EMAIL INFO@NCTOOLSERVICE.COM

15121 Graham St #107 HUNTINGTON BEACH CA 92649

37° High Helix 3 Flute Aluminum Finishers M7 H.S.S.

DIA	SHANK	LOC	OAL	FLUTES	EDP#	PRICE
3/16	3/16	1/2	2 3/8	3	310-0605	\$16.00
1/4	3/8	5/8	2 1/16	3	310-0806	\$16.00
1/4	3/8	1 1/4	3 1/16	3	310-0812	\$18.50
1/4	3/8	1 3/4	3 9/16	3	310-0818	\$21.50
5/16	3/8	3/8	2 1/2	3	310-1008	\$16.00
5/16	3/8	1 3/8	3 1/8	3	310-1013	\$18.50
5/16	3/8	2	3 3/4	3	310-1020	\$21.50
3/8	3/8	3/4	2 1/2	3	310-1208	\$16.00
3/8	3/8	1 1/2	3 1/4	3	310-1215	\$18.50
3/8	3/8	2 1/2	4 1/4	3	310-1225	\$21.50
7/16	3/8	1	2 11/16	3	310-1410	\$23.00
7/16	1/2	1 3/4	3 3/4	3	310-1418	\$26.50
7/16	1/2	2 3/4	4 3/4	3	310-1428	\$30.00
1/2	1/2	1 1/4	3 1/4	3	310-1612	\$21.50
1/2	1/2	2	4	3	310-1620	\$25.00
1/2	1/2	3	5	3	310-1630	\$26.00
5/8	5/8	1 5/8	3 3/4	3	310-2016	\$28.00
5/8	5/8	2	4 1/8	3	310-2020	\$31.00
5/8	5/8	2 1/2	4 5/8	3	310-2025	\$32.00
5/8	5/8	4	6 1/8	3	310-2040	\$47.00
3/4	3/4	1 5/8	3 7/8	3	310-2416	\$29.50
3/4	3/4	2 1/4	4 1/2	3	310-2425	\$34.50
3/4	3/4	3	5 1/4	3	310-2430	\$39.50
3/4	3/4	4	6 1/4	3	310-2440	\$49.50
7/8	7/8	1 7/8	4 1/8	3	310-2818	\$43.00
7/8	7/8	3 1/2	5 3/4	3	310-2835	\$67.00
7/8	7/8	5	7 1/4	3	310-2850	\$78.50
1	1	2	4 1/2	3	310-3220	\$43.50
1	1	3	5 1/2	3	310-3230	\$58.00
1	1	4	6 1/2	3	310-3240	\$69.50
1	1	6	8 1/2	3	310-3260	\$84.50
1 1/4	1 1/4	2	4 1/2	3	310-4020	\$73.50
1 1/4	1 1/4	3	5 1/2	3	310-4030	\$89.00
1 1/4	1 1/4	4	6 1/2	3	310-4040	\$99.50
1 1/4	1 1/4	6	8 1/2	3	310-4060	\$146.50
1 1/2	1 1/4	2	4 1/2	3	310-4820	\$97.00
1 1/2	1 1/4	3	5 1/2	3	310-4830	\$115.00
1 1/2	1 1/4	4	6 1/2	3	310-4840	\$128.00
1 1/2	1 1/4	6	8 1/2	3	310-4860	\$192.00
1 1/2	1 1/4	8	10 1/2	3	310-4880	\$219.50
2	1 1/4	2	4 1/2	3	310-6420-40	\$165.00
2	2	3	6 3/4	3	310-64-3	CALL FOR PRICING
2	2	4	7 3/4	3	310-64-4	CALL FOR PRICING
2	2	6	9 3/4	3	310-64-6	CALL FOR PRICING



PRICE TO ADD RADIUS
 .030 - .187 \$16.00
 .250 - .500 \$23.00

OPTIMUM PERFORMANCE FOR FINISHING OPERATIONS*HIGHER SPEEDS – VIBRATIONS FREE

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OR EMAIL INFO@NCTOOLSERVICE.COM 15121 Graham St. #107 HB CA 92649





FASTCUT 3 FLUTE 38 DEGREE HIGHHELIX M-7 HSS
WITH ZIRCONIUM NITRIDE COATING

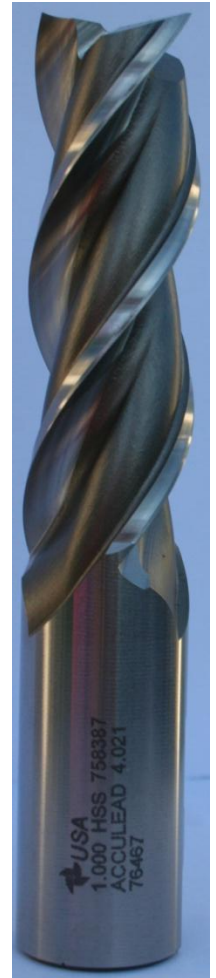


CUTTER DIA	SHANK DIA	LOC	OAL	EDP UNCOATED	UNCOATED PRICE	ZRN PRICE
1/2	1/2	1 1/4	3 1/4	76228	24.50	29.50
1/2	1/2	2	4	76428	31.50	37.00
1/2	1/2	3	5	76628	39.50	46.50
3/4	3/4	1 5/8	3 7/8	76245	34.00	41.00
3/4	3/4	3	5 1/4	76445	49.50	58.50
3/4	3/4	4	6 1/4	76645	59.50	71.00
1	1	2	4 1/2	76266	49.50	64.50
1	1	3	5 1/2	76467	69.50	84.50
1	1	4	6 1/2	76668	75.00	93.00
1	1	6	8 1/2	76828	98.50	118.50
1 1/4	1 1/4	2	4 1/2	76275	72.50	89.50
1 1/4	1 1/4	3	5 1/2	76476	93.00	109.50
1 1/4	1 1/4	4	6 1/2	76677	103.00	124.50
1 1/4	1 1/4	6	8 1/2	76845	133.00	159.50
1 1/2	1 1/4	2	4 1/2	76283	92.00	119.50
1 1/2	1 1/4	3	5 1/2	76484	109.50	139.50
1 1/2	1 1/4	4	6 1/2	76685	125.00	159.00
1 1/2	1 1/4	6	8 1/2	76869	189.50	229.00
1 1/2	1 1/4	8	10 1/2	76878	215.00	268.00
2	2	2	5 3/4	76296	165.00	209.00
2	2	3	6 3/4	76497	185.50	236.50
2	2	4	7 3/4	76698	219.50	279.00
2	2	6	9 3/4	76886	279.00	354.50
2	2	8	11 3/4	76899	321.50	409.00

ADD ZRN TO THE END OF EDP# TO ADD ZRN COATING EX 76899ZRN

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 2012



PRICE TO ADD RAD
 .030 - .187 RAD \$16.00
 .250 - .500 RAD \$23.00





888-857-6835

HIGH PERFORMANCE POWERED METAL ALUMINUM | Milling Products

T-15 3 FLUTE 42 DEGREE HELIX FINISHING REGULAR, MEDIUM & LONG LENGTHS

	OD	SD	LOC	OAL	SQUARE END			
					Un-Coated		TiCN-Coated	
					EDP No.	Price	EDP No.	Price
REGULAR	1/2	1/2	1 1/4	3 1/4	EP10323	\$19.50	EP10323C	\$22.00
LONG	1/2	1/2	2	4	EP10324	\$28.00	EP10324C	\$31.00
REGULAR	5/8	5/8	1 5/8	3 3/4	EP10403	\$37.00	EP10403C	\$42.00
LONG	5/8	5/8	2 1/2	4 5/8	EP10404	\$51.50	EP10404C	\$56.50
REGULAR	3/4	3/4	1 5/8	3 7/8	EP10484	\$47.50	EP10484C	\$53.50
MEDIUM	3/4	3/4	2 1/4	4 5/8	EP10485	\$56.50	EP10485C	\$62.00
LONG	3/4	3/4	3	5 1/4	EP10486	\$68.00	EP10486C	\$74.00
REGULAR	1	1	2	4 1/2	EP10644	\$71.00	EP10644C	\$78.00
MEDIUM	1	1	3	5 1/2	EP10645	\$92.00	EP10645C	\$102.50
LONG	1	1	4	6 1/2	EP10646	\$110.00	EP10646C	\$130.50
REGULAR	1 1/4	1 1/4	2	4 1/2	EP11165	\$120.50	EP11165C	\$136.00
MEDIUM	1 1/4	1 1/4	3	5 1/2	EP11166	\$131.00	EP11166C	\$146.00
LONG	1 1/4	1 1/4	4	6 1/2	EP11167	\$156.00	EP11167C	\$173.00
REGULAR	1 1/2	1 1/4	2	4 1/2	EP11324	\$174.00	EP11324C	\$193.00
MEDIUM	1 1/2	1 1/4	3	5 1/2	EP11325	\$188.50	EP11325C	\$207.50
LONG	1 1/2	1 1/4	4	6 1/2	EP11326	\$235.00	EP11326C	\$254.00



PRICE TO ADD RAD

.030-.187 RAD \$16.00

.250 - .500 RAD \$23.00



T-15 3 FLUTE 42° HELIX -EXTENDED NECK POWDERED METAL

MILL DIA	SHANK DIA	LOC	NECK	OAL	# FL	EDP UNCOATED	PRICE	EDP UNCOATED	TICN COATING
3/4	3/4	1 1/2	3	5 1/4	3	EK13210	59.50	EK13210C	72.00
3/4	3/4	1 1/2	4	6 1/4	3	EK13211	63.50	EK13211C	79.00
1	1	1 1/2	3	5 1/2	3	EK13212	84.50	EK13212C	98.00
1	1	2	4	6 1/2	3	EK13213	94.50	EK13213C	114.00
1	1	2	6	8 1/2	3	EK13214	109.50	EK13214C	127.00
1 1/4	1 1/4	2	4	6 1/2	3	EK13215	154.50	EK13215C	175.00
1 1/4	1 1/4	2	6	8 1/2	3	EK13216	184.50	EK13216C	214.50



****MOBIL INVENTORY ** ADD ANY RADIUS****

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5



IN STOCK NOW!



3 FLUTE COURSE PITCH ROUGHER 35 DEGREE HELIX COBALT

DIA	SHANK	LOC	OAL	EDP# UNCOATED	UNCOATED PRICE	TICN/ZRN PRICE
1/4	3/8	5/8	2 7/16	820-0806	22.50	25.50
5/16	3/8	3/4	2 1/2	820-1008	22.50	25.50
3/8	3/8	3/4	2 1/2	820-1208	22.50	25.50
3/8	3/8	1 1/2	3 1/4	820-1213	25.00	31.00
1/2	1/2	1 1/4	3 1/4	820-1612	27.50	33.00
1/2	1/2	2	4	820-1620	36.50	42.00
1/2	1/2	3	5	820-1630	48.00	54.00
5/8	5/8	1 5/8	3 3/4	820-2016	35.00	42.00
5/8	5/8	2 1/2	4 5/8	820-2025	42.00	49.00
5/8	5/8	3	5 1/8	820-2030	50.00	59.00
3/4	3/4	1 5/8	3 7/8	820-2416	39.50	49.00
3/4	3/4	2 1/4	4 1/2	820-2422	47.00	57.00
3/4	3/4	3	5 1/4	820-2430	49.00	59.00
3/4	3/4	4	6 1/4	820-2440	74.00	87.00
1	1	2	4 1/2	820-3220	59.00	73.00
1	1	3	5 1/2	820-3230	74.00	89.00
1	1	4	6 1/2	820-3240	76.00	94.00
1	1	6	8 1/2	820-3260	109.00	129.00
1 1/4	1 1/4	2	4 1/2	820-4020	78.00	99.00
1 1/4	1 1/4	3	5 1/2	820-4030	104.00	129.00
1 1/4	1 1/4	4	6 1/2	820-4040	109.00	139.00
1 1.4`	1 1/4	6	8 1/2	820-4060	154.00	189.00

MINICUT ENDMILLS ARE MANUFACTURED TO THE NAS 986 SPECIFICATION (AEROSPACE STANDARDS)

TO ADD COATING ADD TC OR ZRN TO EDP NUMBER ex. 820-0806TC

MOBIL INVENTORY ADD ANY RADIUS**SAME DAY DELIVERY IN MOST CASES

TO ORDER CALL **888-857-6835** OR 714-891-0284

OR EMAIL INFO@NCTOOLSERVICE.COM

15121 Graham St #107 HUNTINGTON BEACH CA 92649

PRICE TO ADD RAD

.030-.187 RAD \$16.00

.250 - .500 RAD \$23.00

2012



3 FL TRUNCATED ROUGHER/ FINISHER 35 DEGREE HELIX M 42 COBALT

DIA	SHANK	LOC	OAL	EDP UNCOATED	UNCOATED PRICE	ZRN PRICE
1/2	1/2	1 1/4	3 1/4	77600	29.00	34.00
1/2	1/2	2	4	77618	35.00	43.00
1/2	1/2	3	5	77636	47.00	54.00
3/4	3/4	1 5/8	3 7/8	77603	39.00	48.00
3/4	3/4	3	5 1/4	77621	57.00	69.00
3/4	3/4	4	6 1/4	77639	74.00	87.00
1	1	2	4 1/2	77606	59.00	74.00
1	1	3	5 1/2	77624	79.00	95.00
1	1	4	6 1/2	77642	93.00	115.00
1	1	6	8 1/2	77654	123.00	149.00
1 1/4	1 1/4	2	4 1/2	77609	89.00	109.00
1 1/4	1 1/4	3	5 1/2	77627	113.00	134.00
1 1/4	1 1/4	4	6 1/2	77645	124.00	149.00
1 1/4	1 1/4	6	8 1/2	77657	164.00	198.00
1 1/2	1 1/4	2	4 1/2	77612	119.00	139.00
1 1/2	1 1/4	3	5 1/2	77630	134.00	163.00
1 1/2	1 1/4	4	6 1/2	77648	154.00	187.00
1 1/2	1 1/4	6	8 1/2	77660	229.00	273.00
2	2	2	5 3/4	77615	197.00	245.00
2	2	3	6 3/4	77633	215.00	275.00
2	2	4	7 3/4	77651	259.00	324.00
2	2	6	9 3/4	77663	329.00	399.00

THIS TRUNCATED DESIGN COMBINES HIGH METAL REMOVAL RATES WHICH ALLOW OPERATOR TO PLUNGE, RAMP, POCKET, SLOT AND PROFILE.

MOBIL INVENTORYSAME DAY DELIVERY IN MOST CASES****
TO ORDER CALL 888-857-6835 OR EMAIL INFO@NCTOOLSERVICE.COM
 2012

PRICE TO ADD RADIUS
 .030 - .187 \$16.00
 .250 - .500 \$23.00

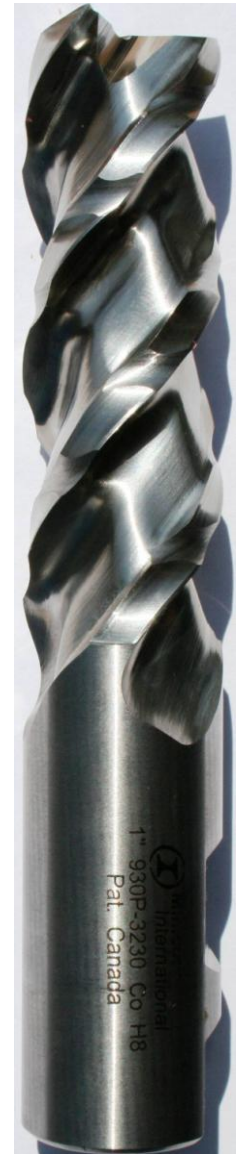


AEROSPACE AND DEFENSE APPROVED
 ANSI & NAS 986 SPECIFICATION



HIGH PERFORMANCE POLISHED FLUTES **M 42 COBALT

MILL DIA	SHANK DIA	LOC	OAL	FLUTES	EDP#	Price
3/8	3/8	3/4	2 1/2	3	930P-1208	\$37.50
3/8	3/8	3/4	3 1/8	3	930P-1213	\$49.50
1/2	1/2	1 1/4	3 1/4	3	930P-1612	39.50
1/2	1/2	2	4	3	930P-1620	50.50
1/2	1/2	3	5	3	930P-1630	64.50
5/8	5/8	1 5/8	3 3/4	3	930P-2016	54.50
5/8	5/8	2 1/2	4 5/8	3	930P-2025	68.00
3/4	3/4	1 5/8	3 7/8	3	930P-2416	62.00
3/4	3/4	2 1/4	4 1/2	3	930P-2422	72.00
3/4	3/4	3	5 1/4	3	930P-2430	82.00
3/4	3/4	4	6 1/4	3	930P-2440	98.00
7/8	7/8	1 7/8	4 1/8	3	930P-2818	82.00
7/8	7/8	3 1/2	5 3/4	3	930P-2835	113.50
7/8	7/8	5	7 1/4	3	930P-2850	150.50
1	1	2	4 1/2	3	930P-3220	95.00
1	1	3	4 1/2	3	930P-3230	125.50
1	1	4	4 1/2	3	930P-3240	137.00
1	1	6	4 1/2	3	930P-3260	178.00
1 1/4	1 1/4	2	4 1/2	3	930P-4020	132.50
1 1/4	1 1/4	3	5 1/2	3	930P-4030	161.50
1 1/4	1 1/4	4	6 1/2	3	930P-4040	190.00
1 1/4	1 1/4	6	8 1/2	3	930P-4060	249.00
1 1/2	1 1/4	2	4 1/2	3	930P-4820	158.00
1 1/2	1 1/4	3	5 1/2	3	930P-4830	188.00
1 1/2	1 1/4	4	6 1/2	3	930P-4840	219.00
1 1/2	1 1/4	6	8 1/2	3	930P-4860	289.00
2	1 1/4	2	4 1/2	3	930P-6420-40	304.00
2	1 1/4	3	5 1/2	3	930P-6430-40	330.00
2	1 1/4	4	6 1/2	3	930P-6440-40	370.00
2	2	3	6 3/4	3	930P-6430	330.00
2	2	4	7 3/4	3	930P-6440	372.50
2	2	6	9 3/4	3	930P-6460	460.00
2	2	8	11 3/4	3	930P-6480	545.00



STILL THE FASTEST, LONGEST LASTING COBALT ROUGHING AND FINISHING ENDMILL IN THE WORLD.

Minicut endmills are manufactured to NAS 986 specifications (Aerospace Standards)

Price to add Radius

.030 - .187 \$16.00

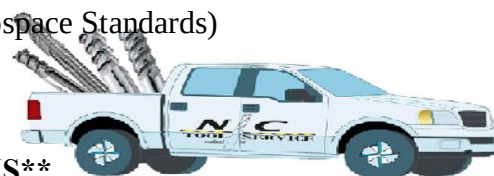
.250 - .500 \$23.00

****MOBIL INVENTORY ** ADD ANY RADIUS****

SAME DAY DELIVERY IN MOST CASES

To Order call 888-857-6835 or email info@nctoolservice.com

15121 Graham St #107 Huntington Beach Ca 92649





HIGH PERFORMANCE POWERED METAL ALUMINUM | Milling Products

T15,3 FLUTE 42 HELIX ROUGHING-"SPEED FREEK" REGULAR / MEDIUM / LONG LENGTH

REGULAR LENGTH				Uncoated		TiCN Coated	
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	EDP No.	PRICE	EDP No.	PRICE
1/2	1/2	1-1/4	3-1/4	66515	34.00	66515PC	44.00
5/8	5/8	1-5/8	3-3/4	66519	49.00	66519PC	64.00
3/4	3/4	1-5/8	3-7/8	66524	54.00	66524PC	69.00
1	1	2	4-1/2	66540	91.00	66540PC	119.00
1-1/4	1-1/4	2	4-1/2	66541	119.00	66541PC	149.00
1-1/2	1-1/4	2	4-1/2	66542	179.00	66542PC	229.00
2	2	2	5-3/4	66543	299.00	66543PC	379.00
MEDIUM LENGTH				Uncoated		TiCN Coated	
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	EDP No.	PRICE	EDP No.	PRICE
3/4	3/4	2-1/4	4-5/8	80524	64.50	80524PC	84.00
1	1	3	5-1/2	80540	99.00	80540PC	129.00
1-1/4	1-1/4	3	5-1/2	80541	134.00	80541PC	168.00
1-1/2	1-1/4	3	5-1/2	80542	189.00	80542PC	244.00
2	2	3	6-3/4	80543	329.00	80543PC	399.00

LONG AND EXTRA LONG LENGTHS				Uncoated		TiCN Coated	
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	EDP No.	PRICE	EDP No.	PRICE
1/2	1/2	2	4	67515	38.50	67515PC	53.00
5/8	5/8	2-1/2	4-5/8	67519	49.50	67519PC	74.50
3/4	3/4	3	5-1/4	67524	73.00	67524PC	94.00
1	1	4	6-1/2	67540	119.00	67540PC	149.00
1-1/4	1-1/4	4	6-1/2	67541	149.00	67541PC	189.00
1-1/2	1-1/4	4	6-1/2	67542	195.00	67542PC	257.00
2	2	4	7-3/4	67543	339.00	67543PC	415.00
1-1/4	1-1/4	6	8-1/2	67544	195.00	67544PC	239.00
1-1/2	1-1/4	6	8-1/2	67545	219.00	67545PC	293.00
2	2	6	9-3/4	67546	369.00	67546PC	465.00

T15,3 FLUTE 42 HELIX -"SPEED FREEK" EXTENDED NECK

EDP. NO	OD	SD	LOC	LBS	OAL	UNCOATED	TICN COATED
EK10482	3/4	3/4	1-1/2	3	5-1/4	84.00	99.00
EK10483	3/4	3/4	1-1/2	4	6-1/4	89.00	109.00
EK10642	1	1	1-1/2	3	5-1/2	139.00	164.00
EK10643	1	1	2	4	6-1/2	148.00	179.00
EK10644	1	1	2	6	8-1/2	164.00	198.00
EK11601	1-1/4	1-1/4	2	4	6-1/2	199.00	234.00
EK11602	1-1/4	1-1/4	2	6	8-1/2	239.00	279.00



1/2G

DM-A02CRH

3 FLUTE TRUNCATED ROUGHER POWDERED METAL ZRN COATED

DIA	SHANK	LOC	OAL	EDP	ZRN PRICE
1/2	1/2	1 1/4	3 1/4	77800	39.00
1/2	1/2	2	4	77833	46.00
5/8	5/8	1 5/8	3 3/4	77803	59.00
5/8	5/8	2 1/2	4 5/8	77836	62.00
3/4	3/4	1 5/8	3 7/8	77806	59.50
3/4	3/4	2 1/4	4 1/2	77818	79.00
3/4	3/4	3	5 1/4	77839	84.00
1	1	1 1/4	3 3/4	77866	99.00
1	1	2	4 1/2	77809	104.00
1	1	3	5 1/2	77821	113.00
1	1	4	6 1/2	77842	139.00
1 1/4	1 1/4	2	4 1/2	77812	139.00
1 1/4	1 1/4	3	5 1/2	77824	149.00
1 1/4	1 1/4	4	6 1/2	77845	149.00
1 1/4	1 1/4	6	8 1/2	77857	169.00
1 1/2	1 1/4	2	4 1/2	77815	219.00
1 1/2	1 1/4	3	5 1/2	77827	229.00
1 1/2	1 1/4	4	6 1/2	77848	234.00
1 1/2	1 1/4	6	8 1/2	77860	249.00
2	2	2	5 3/4	77863	315.00
2	2	3	6 3/4	77830	319.00
2	2	4	7 3/4	77851	349.00
2	2	6	9 3/4	77854	398.00

3 FLUTE TRUNCATED ROUGHER WITH REDUCED NECK POWDERED METAL ZRN COATED

DIA	SHANK	LOC	LBS	OAL	EDP	ZRN PRICE
3/4	3/4	1	2 1/4	4 1/2	77920	79.00
3/4	3/4	1	3 3/8	5 5/8	77923	89.00
3/4	3/4	1	4 1/8	6 3/8	77926	98.00
1	1	1 1/2	2 5/8	5 1/8	77929	119.00
1	1	1 1/2	3 3/8	5 5/8	77932	129.00
1	1	1 1/2	4 1/8	6 5/8	77935	139.00
1 1/4	1 1/4	1 1/2	4	6 1/2	77941	149.00
1 1/4	1 1/4	1 1/2	5	7 1/2	77944	159.00
1 1/4	1 1/4	1 1/2	6	8 1/2	77947	169.00
1 1/2	1 1/4	2	4 1/8	6 5/8	77953	235.00
1 1/2	1 1/4	2	5 1/8	7 5/8	77956	249.00
1 1/2	1 1/4	2	6 1/8	8 5/8	77959	259.00
2	2	2 1/4	5 1/8	8 7/8	77965	379.00
2	2	2 1/4	6 1/8	9 7/8	77968	398.00

MOBIL INVENTORY**SAME DAY DELIVERY IN MOST CASES

TO ORDER CALL **888-857-6835** OR EMAIL INFO@NCTOOLSERVICE.COM

15121 Graham St #107 HUNTINGTON BEACH CA 92649

AEROSPACE AND DEFENSE APPROVED
ANSI & NAS 986 TYPE 21 SPECIFICATIONS



M-42 SUPER COBALT FOR HIGH TENSILE MATERIALS 35 DEGREE HELIX

865 SERIES MULTI Flute End Mills Regular length – Center Cutting

DIA	SHANK	LOC	OAL	# OF FLUTES	EDP#	Uncoated	Tialn Coated
1/8	3/8	3/8	2-5/16	4	865-4	15.00	20.00
3/16	3/8	1/2	2-3/8	4	865-6	15.00	20.00
1/4	3/8	5/8	2-7/16	4	865-8	15.00	20.00
5/16	3/8	3/4	2-1/2	4	865-10	15.50	21.00
3/8	3/8	3/4	2-1/2	4	865-12	23.00	27.50
1/2	1/2	1-1/4	3-1/4	4	865-16	23.00	27.50
5/8	5/8	1-5/8	3-3/4	4	865-20	33.00	44.50
5/8	5/8	1 5/8	3 3/4	6	865-20-A	33.00	44.50
3/4	3/4	1-5/8	3-7/8	4	865-24	42.00	58.00
3/4	3/4	1 5/8	3 7/8	6	865-24-A	42.00	58.00
7/8	7/8	1-7/8	4-1/8	4	865-28	52.50	76.00
7/8	7/8	1 7/8	4 1/8	6	865-28-A	52.50	76.00
1	1	2	4-1/2	4	865-32	64.50	87.00
1	1	2	4 1/2	6	865-32-A	64.50	87.00
1-1/4	1-1/4	2	4-1/2	4	865-40	87.00	129.00
1-1/4	1-1/4	2	4 1/2	6	865-40-A	87.00	129.00
1-1/2	1-1/4	2	4-1/2	4	865-48	109.00	169.50
1-1/2	1-1/4	2	4 1/2	6	865-48-A	109.00	169.50
2	1-1/4	2	4-1/2	6	865-64-40	154.00	242.50

867 SERIES MULTI Flute end mills Medium length – Center Cutting 35 DEGREE HELIX

5/8	5/8	2	4-1/8	4	867-20	40.00	53.00
3/4	3/4	2-1/4	4-1/2	4	867-24	44.00	62.00
3/4	3/4	2-1/4	4-1/2	6	867-24-A	49.50	67.00
1	1	3	5-1/2	4	867-32	79.00	106.00
1	1	3	5-1/2	6	867-32-A	87.00	114.00
1-1/4	1-1/4	3	5-1/2	4	867-40	98.00	144.00
1-1/4	1-1/4	3	5-1/2	6	867-40-A	113.00	174.50
1-1/2	1-1/4	3	5-1/2	4	867-48	116.50	185.00
1-1/2	1-1/4	3	5-1/2	6	867-48-A	127.00	196.00

870 SERIES MULTI Flute end mills Long length – Center cutting 35 DEGREE HELIX

1/4	3/8	1-1/4	3-1/16	4	870-8	22.00	27.50
5/16	3/8	1-3/8	3-1/8	4	870-10	22.00	27.50
3/8	3/8	1-1/2	3-1/4	4	870-12	22.00	27.50
1/2	1/2	2	4	4	870-16	28.50	39.00
5/8	5/8	2-1/2	4-5/8	4	870-20	42.00	55.00
5/8	5/8	2-1/2	4-5/8	6	870-20-A	42.00	55.00
3/4	3/4	3	5-1/4	4	870-24	52.00	69.00
3/4	3/4	3	5-1/4	6	870-24-A	52.00	69.00
7/8	7/8	3-1/2	5-3/4	4	870-28	69.00	95.00
7/8	7/8	3-1/2	5-3/4	6	870-28-A	69.00	95.00
1	1	4	6-1/2	4	870-32	85.00	114.00
1	1	4	6-1/2	6	870-32-A	85.00	114.00
1-1/4	1-1/4	4	6-1/2	4	870-40	120.00	169.00
1-1/4	1-1/4	4	6-1/2	6	870-40-A	120.00	169.00
1-1/2	1-1/4	4	6-1/2	4	870-48-40	153.00	229.00
1-1/2	1-1/4	4	6-1/2	6	870-48-40A	153.00	229.00

875 SERIES MULTI Flute end mills Extra long length – Center Cutting 35 DEGREE HELIX

1/4	3/8	1 3/4	3 9/16	4	875-8	26.00	36.00
5/16	3/8	2	3 3/4	4	875-10	26.00	36.00
3/8	3/8	2 1/2	4 1/4	4	875-12	26.00	36.00
1/2	1/2	3	5	4	875-16	33.50	44.50
5/8	5/8	4	6 1/8	4	875-20	52.50	69.00
3/4	3/4	4	6 1/4	4	875-24	59.50	83.50
3/4	3/4	4	6 1/4	6	875-24-A	59.50	83.50
7/8	7/8	5	7 1/4	4	875-28	79.50	112.00
1	1	6	8 1/2	4	875-32	104.00	139.00
1	1	6	8 1/2	6	875-32-A	104.00	139.00
1-1/4	1-1/4	6	8 1/2	4	875-40	148.00	199.00
1-1/4	1-1/4	6	8 1/2	6	875-40-A	148.00	199.00
1-1/2	1-1/4	6	8 1/2	4	875-48-6	176.50	269.00
1-1/2	1-1/4	6	8 1/2	6	875-48-6A	176.50	269.00
1 1/2	1-1/4	8	10 1/2	6	875-48-8A	Call	Call

876 SERIES MULTI FLUTE end mills Medium and Long Lengths Center Cutting 35 DEGREE HELIX

2	2	3	6 3/4	6	876-64-3A	236.00	379.00
2	2	4	7 3/4	6	876-64-4A	254.00	389.00
2	2	6	9 3/4	6	876-64-6A	354.00	459.00
2	2	8	11 3/4	6	876-64-8A	389.00	549.00

MINICUT ENDMILLS ARE MANUFACTURED TO THE NAS 986 SPECIFICATIONS (AEROSPACE STANDARDS)

For Tialn Coating add "TA" Before EDP# ex. TA865-16 = \$27.50

888-857-6835

PRICE TO ADD RAD
.030 - .187 RAD \$16.00
.250 - .500 RAD \$23.00

2012



FASTCUT MULTI-FLUTE FINISHER 35 DEGREE HELIX M 42 8 % COBALT

DIA	SHANK DIA	LOC	OAL	# FLUTES	EDP	PRICE UNCOATED	PRICE TIALN
1/2	1/2	1 1/4	3 1/4	4	85028	24.50	34.50
1/2	1/2	2	4	4	85430	32.00	54.00
1/2	1/2	3	5	4	85631	39.50	59.00
5/8	5/8	1 5/8	3 3/4	4	85036	36.00	44.50
5/8	5/8	2 1/2	4 5/8	4	85438	48.00	58.50
5/8	5/8	3	5 1/8	4	85237	54.50	64.50
5/8	5/8	4	6 1/8	4	85639	59.50	78.00
3/4	3/4	1 5/8	3 7/8	4	85045	45.50	57.00
3/4	3/4	1 5/8	3 7/8	6	85046	47.50	59.00
3/4	3/4	3	5 1/4	4	85447	59.50	74.00
3/4	3/4	3	5 1/4	6	85448	59.50	74.00
3/4	3/4	4	6 1/4	4	85647	73.50	89.50
3/4	3/4	4	6 1/4	6	85648	74.50	93.00
1	1	2	4 1/2	4	85066	69.50	89.50
1	1	2	4 1/2	6	85067	73.00	89.50
1	1	3	5 1/2	4	85267	84.50	104.50
1	1	3	5 1/2	6	85268	89.50	109.50
1	1	4	6 1/2	4	85468	94.50	118.00
1	1	4	6 1/2	6	85469	96.50	119.50
1	1	6	8 1/2	4	85668	117.00	144.00
1	1	6	8 1/2	6	85669	124.50	149.50
1 1/4	1 1/4	2	4 1/2	6	85075	94.50	118.00
1 1/4	1 1/4	3	5 1/2	6	85276	126.50	149.50
1 1/4	1 1/4	4	6 1/2	6	85477	133.50	163.00
1 1/4	1 1/4	6	8 1/2	6	85678	165.50	199.50
1 1/2	1 1/4	2	4 1/2	6	85083	122.50	159.50
1 1/2	1 1/4	3	5 1/2	6	85284	157.50	196.50
1 1/2	1 1/4	4	6 1/2	6	85485	179.50	224.50
1 1/2	1 1/4	6	8 1/2	6	85686	223.00	274.50
2	1 1/4	2	4 1/2	6	85092	232.00	269.50
2	2	2	5 3/4	6	85096	245.50	299.50
2	2	3	6 3/4	6	85297	267.00	329.50
2	2	4	7 3/4	6	85498	285.50	359.00
2	2	6	9 3/4	6	85699	338.50	429.50

ADD TA TO END OF EDP # TO ADD TIALN COATING ex. 85028TA

2012



MOBIL INVENTORYSAME DAY DELIVERY IN MOST CASES****

TO ORDER CALL 888-857-6835 OR EMAIL INFO@NCTOOLSERVICE.COM

15121 Graham St #107 HUNTINGTON BEACH CA 92649

Aerospace and Defense Approved
NAS 986 Type 46 and 66 Specification



PRICE TO ADD RADIUS
.030 - .187 \$16.00
.250 - .500 \$23.00





Minicut International

811 SERIES COARSE PITCH

COBALT ROUGHERS

816 SERIES FINE PITCH



DIA	Shank	LOC	AOL	FLUTES	EDP	Pricing	Pricing TIALN
3/8	3/8	3/4	2-1/2	4	1208	19.00	23.00
3/8	3/8	1-3/8	3-1/8	4	1213	27.00	29.00
1/2	1/2	1-1/4	3-1/4	4	1612	29.00	33.00
1/2	1/2	2	4	4	1620	37.00	42.00
1/2	1/2	3	5	4	1630	45.00	49.00
5/8	5/8	1-5/8	3-3/4	4	2016	36.00	39.00
5/8	5/8	2-1/2	4-5/8	4	2025	46.00	53.00
5/8	5/8	3	5-1/8	4	2030	49.50	59.00
3/4	3/4	1-5/8	3-7/8	4	2416	44.00	49.00
3/4	3/4	1-5/8	3-7/8	5	2416-5F	63.00	75.00
3/4	3/4	2 1/4	4 1/2	4	2422	49.00	58.00
3/4	3/4	2 1/4	4 1/2	5	2422-5F	69.00	84.00
3/4	3/4	3	5-1/4	4	2430	53.00	63.00
3/4	3/4	4	6-1/4	4	2440	64.00	75.00
7/8	7/8	1-5/8	4-1/8	5	2816	57.00	68.00
7/8	7/8	3-1/2	5-3/4	5	2835	68.00	82.00
1	1	2	4-1/2	5	3220	63.00	75.00
1	1	3	5-1/2	5	3230	79.00	95.00
1	1	4	6-1/2	5	3240	85.00	99.00
1	1	6	8-1/2	5	3260	118.00	135.00
1-1/4	1-1/4	2	4-1/2	6	4020	83.00	99.00
1-1/4	1-1/4	3	5-1/2	6	4030	109.00	129.00
1-1/4	1-1/4	4	6-1/2	6	4040	115.00	139.00
1-1/4	1-1/4	6	8-1/2	6	4060	175.00	209.00
1 1/2	1-1/4	2	4 1/2	6	4820	105.00	129.00
1 1/2	1-1/4	3	5 1/2	6	4830	136.00	150.00
1 1/2	1-1/4	4	6 1/2	6	4840	149.00	169.00
1 1/2	1-1/4	6	8 1/2	6	4860	219.00	249.00
2	1-1/4	2	4 1/2	8	6420-40	169.00	194.00
2	1-1/4	3	5 1/2	8	6430-40	198.00	212.00
2	1-1/4	4	6 1/2	8	6440-40	219.00	239.00
2	2	3	6 3/4	8	6430	209.00	245.00
2	2	4	7 3/4	8	6440	229.00	263.00
2	2	6	9 3/4	8	6460	283.00	327.00
2	2	8	11 3/4	8	6480	390.00	495.00



Stainless Steel

Nickel Alloys

Titanium

Inconel 718

PRICE TO ADD RAD

.030 - .187 \$16.00

ADD SERIES NUMBER 811 OR 816 TO EDP# AND TF TO ADD COATING *816-3220TF = 1 fine x 2 loc Tialn

Minicut Endmills are manufactured to the NAS 986 specifications (Aerospace StandardS)

MOBIL INVENTORY ADD ANY RADIUS**SAME DAY DELIVERY IN MOST CASES

TO ORDER CALL **888-857-6835** OR EMAIL INFO@NCTOOLSERVICE.COM

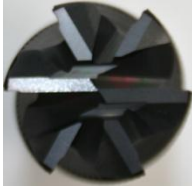
15121 Graham St #107 HUNTINGTON BEACH CA 92649

2012



PRICE TO ADD RAD
.030-.187 RAD \$16.00
.250 - .500 RAD \$23.00

10% POWDER METAL COBALT & TIALN COATING
TANK POWER, ASP60 ROUGHING END MILLS
CENTER CUTTING-ALL LENGTHS

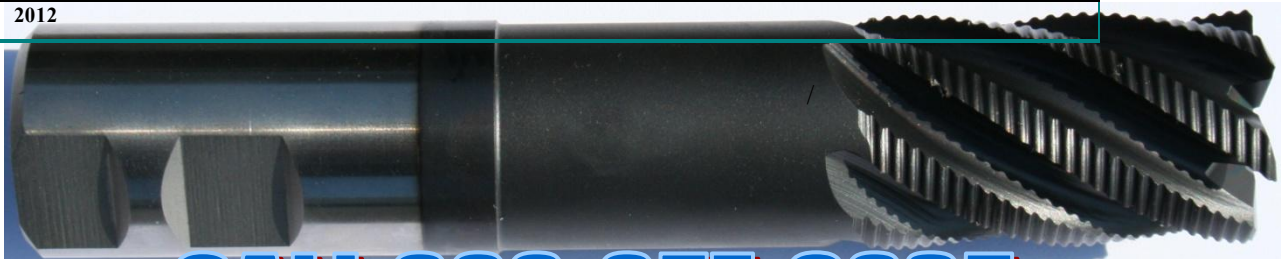


MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	# FLUTES	EDP # Fine Pitch	TiAlN Coated Price	EDP# Coarse Pitch
3/8	3/8	3/4	2-1/2	4	E9990024TF	\$24.50	E9991024TF
3/8	3/8	1 1/2	3 1/4	4	E9A86024TF	\$38.00	E9A87024TF
1/2	1/2	1-1/4	3-1/4	4	E9990032TF	\$35.50	E9991032TF
1/2	1/2	1-5/8	3-5/8	4	E9990908TF	\$39.00	E9991903TF
1/2	1/2	2	4	4	E9A86032TF	\$43.00	E9A87032TF
5/8	5/8	1-5/8	3-3/4	4	E9990040TF	\$43.00	E9991040TF
5/8	5/8	2 1/2	4 5/8	4	E9A86040TF	\$61.00	E9A87040TF
3/4	3/4	1-5/8	3-7/8	4	E9990048TF	\$52.00	E9991048TF
3/4	3/4	2 1/2	4 3/4	4	E9990909TF	\$62.50	E9991904TF
3/4	3/4	3	5 1/4	4	E9990902TF	\$66.00	E9A87948TF
1	1	2	4-1/2	5	E9990064TF	\$79.50	E9991064TF
1"	1"	3"	5-1/2	5	E9990905TF	\$84.00	E9991905TF
1	1	4	6-1/2	5	E9990903TF	\$114.00	E9A87064TF
1-1/4	1-1/4	2	4-1/2	6	E9990116TF	\$119.00	E9991116TF
1-1/4	1-1/4	3"	5-1/2	6	E9990906TF	\$132.00	E9991906TF
1-1/4	1-1/4	4	6-1/2	6	E9990904TF	\$144.00	E9A87917TF

10% POWDERED METAL COBALT * EXTRA MULTI FLUTE *
FINE PITCH ROUGHING EXTENDED NECK END MILLS VIBRATION FREE

MILL DIA	SHANK DIA	LOC	NECK	OAL	# FL	PRICE	EDP TIALN COATED	PRICE TIALN COATED
1/2	1/2	1 1/4	3	5	5	53.00	EP20322F	59.50
5/8	5/8	1 5/8	4	6 1/8	5	66.00	EP20402F	79.00
3/4	3/4	1 5/8	4	6 1/4	5	79.00	EP20482F	92.00
3/4	3/4	1 5/8	6	8 1/4	5	97.00	EP20484F	109.00
1	1	2	4	6 1/2	6	115.00	EP20642F	139.00
1	1	2	6	8 1/2	6	138.00	EP20643F	169.00
1 1/4	1 1/4	2	4	6 1/2	6	198.00	EP21161F	229.00
1 1/4	1 1/4	2	6	8 1/2	6	228.00	EP21162F	259.00

2012



CALL 888-857-6835

W/G

4 & 6 FL Super Cobalt Minicut Roughing & Finishing End Mills

Cutting DIA	Description Shank x LOC x OAL	EDP #	Uncoated Pricing	Coated Pricing Tialn
1/2"	1/2 X 1 1/4 X 3 1/4 X 4FL	995-1612	\$44.00	\$52.00 TA
	1/2 X 2 X 4 X 4 FL	995-1620	\$55.00	\$62.50 TA
5/8"	5/8 X 1 5/8 X 3 3/4 4 FL	995-2016	\$54.00	\$64.50 TA
	5/8 X 2 1/2 X 4 5/8 4 FL	995-2025	\$69.50	\$79.50 TA
	5/8 X 4 X 6 1/8 4 FL	995-2040	\$94.00	\$109.50 TA
3/4"	3/4 X 1 5/8 X 3 7/8 4 FL	995-2416	\$59.00	\$73.00 TA
	3/4 X 3 X 5 1/4 4 FL	995-2430	\$86.00	\$104.00 TA
	3/4 X 4 X 6 1/4 4 FL	995-2440	\$104.50	\$123.50 TA
1"	1 X 2 X 4 1/2 X 6FL	995-3220A	\$99.00	\$119.50 TA
	1 X 3 X 5 1/2 X 6FL	995-3230A	\$129.50	\$154.50 TA
	1 X 6 X 8 1/2 X 6 FL	995-3260A	\$194.00	\$224.50 TA
1 1/4	1 1/4 X 2 X 4 1/2 X 6 FL	995-4020A	\$134.00	\$169.50 TA
	1 1/4 X 3 X 5 1/2 X 6 FL	995-4030A	\$163.50	\$199.00 TA
	1 1/4 X 4 X 6 1/2 X 6 FL	995-4040A	\$192.00	\$234.00 TA
	1 1/4 X 6 X 8 1/2 X 6 FL	995-4060A	\$247.00	\$298.00 TA
1 1/2	1 1/2 X 2 X 4 1/2 X 6 FL	995-4820A	\$156.00	\$206.00 TA
	1 1/2 X 3 X 5 1/2 X 6FL	995-4830A	\$193.00	\$249.00 TA
	1 1/2 X 4 X 6 1/2 X 6FL	995-4840A	\$228.00	\$295.00 TA
	1 1/2 X 6 X 8 1/2 X 6FL	995-4860A	\$281.00	\$358.00 TA
2	1 1/2 X 2 X 4 1/2 X 6 FL	995-6420-40A	\$189.00	\$259.50 TA
	1 1/2 X 4 X 6 1/2 X 6 FL	995-6440-40A	\$269.50	\$355.00 TA
	2 X 3 X 6 3/4 X 6 FL	995-6430A	\$310.00	\$395.00 TA
	2 X 4 X 7 3/4 X 6 FL	995-6440A	\$369.00	\$426.50 TA
	2 X 6 X 9 3/4 X 6 FL	995-6460-A	\$419.00	\$529.00 TA
	2 X 6 X 9 3/4 X 8 FL	995-6460B	\$488.00	\$599.00 TA
	2 X 8 X 11 3/4 X 6 FL	995-6480A	\$462.00	\$598.00 TA
	2 X 8 X 11 3/4 X 8FL	995-6480B	\$538.00	\$682.00 TA

****RECOMMENDED FOR DIFFICULT TO MACHINE MATERIALS**

The sinusoidal wave with chip breakers helps generate a chip form that improves evacuation

And reduces vibration for a more uniform chip. Titanium**Stainless**Inconel**

2012

Minicut Endmills are manufactured to the NAS 986 specifications (Aerospace Standards)

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TO ORDER CALL **888-857-6835** OR EMAIL INFO@NCTOOLSERVICE.COM

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35 Degree Helix & Center Cutting



Price to Add Radius		
.030 -.187	\$16.00	
.250 -.500	\$23.00	



CrestKut End Mills Premium 8% Cobalt Steel (M42) Multi-flute Center Cutting

Mill		Shank			EDP		EDP	
Dia	Dia	LOC	OAL	FL	uncoated	Price	AlTiN	Price
3/4	3/4	2 1/4	4 1/2	4	66500	\$69.50	66524	\$79.50
3/4	3/4	3	5 1/4	4	66508	\$78.50	66530	\$89.50
3/4	3/4	4	6 1/4	4	66501	\$99.50	66525	\$118.50
1	1	2	4 1/2	6	66602	\$79.50	66534	\$97.50
1	1	3	5 1/2	6	66600	\$109.50	66643	\$129.00
1	1	4	6 1/2	6	66604	\$118.50	66649	\$136.50
1 1/4	1 1/4	2	4 1/2	6	66606	\$119.50	66650	\$139.00
1 1/4	1 1/4	3	5 1/2	6	66608	\$144.50	66651	\$164.50
1 1/4	1 1/4	4	6 1/2	6	66610	\$168.00	66652	\$189.50
1 1/4	1 1/4	6	8 1/2	6	66612	\$224.50	66653	\$254.00
1 1/2	1 1/4	2	4 1/2	6	66601	\$134.50	66644	\$159.50
1 1/2	1 1/4	3	5 1/2	6	66633	\$204.50	66645	\$234.00
1 1/2	1 1/4	4	6 1/2	6	66614	\$238.00	66654	\$268.50
1 1/2	1 1/4	6	8 1/2	6	66640	\$269.50	66646	\$299.50
2	2	2	5 3/4	6	66641	\$258.00	66647	\$299.50
2	2	3	6 3/4	6	66642	\$299.00	66648	\$359.00
2	2	4	7 3/4	6	66616	\$326.00	66655	\$389.00
2	2	4	7 3/4	8	66620	\$399.00	66657	\$473.00
2	2	6	9 3/4	6	66618	\$379.00	66656	\$459.00
2	2	6	9 3/4	8	66622	\$536.50	66658	\$615.00

MOBIL INVENTORYSAME DAY DELIVERY IN MOST CASES****

2012

TO ORDER CALL 888-857-6835 OR EMAIL INFO@NCTOOLSERVICE.COM

15121 Graham St #107 HUNTINGTON BEACH CA 92649



The Original Crest-Kut end mills are time proven design for superior metal removal rates combined with excellent finish in titanium and ferrous alloys.

The sinusoidal wave form minimizes vibration and generates a chip Form that improves evacuation and minimizes chip re-cutting. Excels in both peripheral and slotting operations. All tools are supplied as center cutting.

**Aerospace and Defense Approved
NAS 986 Specifications**



FASTCUT MULTI-FLUTE RUFF-N-TOUCH ROUGHING – FINISHER (M42) 8% COBALT

DIA	SHANK DIA	LOC	OAL	# FLUTES	EDP	UNCOATED PRICE	TIALN PRICE
1/2	1/2	1 1/4	3 1/4	4	87228	31.00	39.50
1/2	1/2	2	4	4	87630	42.50	49.50
1/2	1/2	3	5	4	87831	56.50	65.50
5/8	5/8	1 5/8	3 3/4	4	87236	39.50	49.00
5/8	5/8	2 1/2	4 5/8	4	87437	68.00	78.00
5/8	5/8	3	5 1/8	4	87638	59.50	79.00
5/8	5/8	4	6 1/8	4	87839	71.50	89.50
3/4	3/4	1 5/8	3 7/8	4	87245	42.50	57.00
3/4	3/4	1 5/8	3 7/8	6	87246	44.00	59.00
3/4	3/4	3	5 1/4	4	87647	69.50	79.50
3/4	3/4	3	5 1/4	6	87648	75.50	85.00
3/4	3/4	4	6 1/4	4	87847	88.50	99.00
3/4	3/4	4	6 1/4	6	87848	92.00	104.00
1	1	2	4 1/2	4	87266	72.50	86.50
1	1	2	4 1/2	6	87267	75.50	89.50
1	1	3	5 1/2	4	87467	104.50	119.00
1	1	3	5 1/2	6	87468	107.00	123.00
1	1	4	6 1/2	4	87668	126.50	139.00
1	1	4	6 1/2	6	87669	129.50	145.00
1	1	6	8 1/2	4	87868	168.50	185.00
1	1	6	8 1/2	6	87869	172.50	189.00
1 1/4	1 1/4	2	4 1/2	6	87275	99.50	119.00
1 1/4	1 1/4	3	5 1/2	6	87476	129.50	149.00
1 1/4	1 1/4	4	6 1/2	6	87677	169.00	185.00
1 1/4	1 1/4	6	8 1/2	6	87878	219.00	245.00
1 1/2	1 1/4	2	4 1/2	6	87283	119.00	149.00
1 1/2	1 1/4	3	5 1/2	6	87484	149.00	169.00
1 1/2	1 1/4	4	6 1/2	6	87685	179.00	209.00
1 1/2	1 1/4	6	8 1/2	6	87886	279.00	299.00
2	1 1/4	2	4 1/2	6	87292	249.00	279.00
2	2	2	5 3/4	6	87296	269.00	315.00
2	2	3	6 3/4	6	87497	281.00	339.00
2	2	4	7 3/4	6	87698	299.00	360.00
2	2	6	9 3/4	6	87899	399.00	478.00

ADD TA TO END OF EDP# TO ADD TIALN COATING EX 87228TA

THE FEROCIOUS **RUF-N-TOUCH** 35 DEGREE HELIX ROUGHING FINISHER STARCHIPPED ENDMILL AIMED QUARELY AT AGGRESSIVLY CUTTING THROUGH STAINLESS STEEL & TITANIUM ALLOYS. THIS IS A TRUE LONGTIME AEROSPACE WORKHORSE

MOBIL INVENTORYSAME DAY DELIVERY IN MOST CASES****
TO ORDER CALL 888-857-6835 OR EMAIL INFO@NCTOOLSERVICE.COM
15121 Graham St #107 HUNTINGTON BEACH CA 92649

17



PRICE TO ADD RADIUS

.030 - .187 \$16.00

AEROSPACE AND DEFENSE APPROVED
NAS 986 TYPE 46 AND 66 SPECIFICATION



Performance Carbide



2 FLUTE ALUMINUM FINISHER SQ 40 Degree Helix Zirconium Nitride Coating

DIA	SHANK	LOC	AOL	Part#	ZRN Price
1/8	1/8	1/4	1 1/2	58700	11.50
1/8	1/8	1/2	1 1/2	58705	12.00
5/32	3/16	5/16	2	58711	15.50
5/32	3/16	9/16	2	58717	16.50
3/16	3/16	5/16	2	58732	15.50
3/16	3/16	9/16	2	58728	17.00
7/32	1/4	3/8	2	58731	23.00
7/32	1/4	3/4	2 1/2	58734	26.50
1/4	1/4	3/8	2	58737	22.50
1/4	1/4	3/4	2 1/2	58740	24.50
1/4	1/4	1 1/4	3	58743	34.50
1/4	1/4	1 1/2	3 1/2	58746	39.00
1/4	1/4	2	4	58749	45.50
5/16	5/16	7/16	2	58758	24.00
5/16	5/16	13/16	2 1/2	58761	26.00
5/16	5/16	1 1/4	3	58764	47.00
5/16	5/16	1 5/8	3 1/2	58767	51.00
5/16	5/16	2 1/8	4	58770	56.00
3/8	3/8	1/2	2	58779	27.00
3/8	3/8	1	2 1/2	58782	29.00
3/8	3/8	1 1/2	3	58785	39.00
3/8	3/8	2	4	58788	52.00
3/8	3/8	2 1/2	6	58791	69.00
1/2	1/2	5/8	2 1/2	58799	31.00
1/2	1/2	1 1/4	3	58802	49.00
1/2	1/2	1 5/8	4	58805	64.00
1/2	1/2	2	4	58808	72.00
1/2	1/2	2 1/2	5	58811	98.00
1/2	1/2	3 1/8	6	58814	119.00
5/8	5/8	3/4	3	58817	79.00
5/8	5/8	1 5/8	3 1/2	58820	89.50
5/8	5/8	2 1/8	4	58823	119.00
5/8	5/8	2 1/2	5	58826	145.00
5/8	5/8	3 1/4	6	58829	163.00
5/8	5/8	3 3/4	6	58832	189.00
3/4	3/4	1	3	58835	112.00
3/4	3/4	1 5/8	4	58838	128.00
3/4	3/4	2 1/4	5	58841	169.00
3/4	3/4	3 1/4	5	58844	189.00
3/4	3/4	4	6	58847	274.00
1	1	1 1/4	3	58850	199.00
1	1	2	5	58853	225.00
1	1	2 5/8	5	58856	239.00
1	1	3 1/4	6	58859	269.00
1	1	4 1/8	7	58862	389.00

PRICE TO ADD RADIUS

.030 -.125 - \$16.00

.156 -.250 - \$20.00

**High Shear 40 Degree Helix with a cylindrical margin to
Provide chatter resistant machining and superior finishes
in all non-ferrous metal**

MOBIL INVENTORY**SAME DAY DELIVERY IN MOST CASES

TO ORDER CALL **888-857-6835** OR EMAIL INFO@NCTOOLSERVICE.COM

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Aerospace and Defense Approved
NAS 986 Specifications

2 FLUTE CARBIDE VIPER DOUBLE VARIABLE 45 DEGREE HELIX STEALTH COATING

EDP STEALTH	CUTTER DIA	SHANK DIA	LOC	OAL	PRICE
V20804S	1/8	1/8	1/4	1 1/2	13.50
V20808S	1/8	1/8	1/2	1 1/2	16.50
V20812S	1/8	1/8	3/4	2	28.50
V20816S	1/8	1/8	1	2 1/2	38.00
V21009S	5/32	3/16	9/16	2	22.00
V21206S	3/16	3/16	3/8	2	20.00
V21210S	3/16	3/16	5/8	2	23.00
V21216S	3/16	3/16	1	2 1/2	32.50
V21412S	7/32	1/4	3/4	2 1/2	34.00
V21606S	1/4	1/4	3/8	2	27.00
V21612S	1/4	1/4	3/4	2 1/2	29.00
V21620S	1/4	1/4	1 1/4	3	41.50
V21632S	1/4	1/4	2	4	56.00
V22007S	5/16	5/16	7/16	2	32.00
V22013S	5/16	5/16	13/16	2 1/2	37.00
V22020S	5/16	5/16	1 1/4	3	58.50
V22032S	5/16	5/16	2	3	65.50
V22408S	3/8	3/8	1/2	2	35.50
V22416S	3/8	3/8	1	2 1/2	38.50
V22420S	3/8	3/8	1 1/4	3	47.00
V22432S	3/8	3/8	2	4	68.00
V22440S	3/8	3/8	2 1/2	5	93.00
V23210S	1/2	1/2	5/8	3	56.00
V23220S	1/2	1/2	1 1/4	3	59.00
V23224S	1/2	1/2	1 1/2	4	85.00
V23232S	1/2	1/2	2	4	95.00
V23240S	1/2	1/2	2 1/2	5	137.00
V23248S	1/2	1/2	3	6	145.50
V23264S	1/2	1/2	4	8	259.00
V24020S	5/8	5/8	1 1/4	3 1/2	104.00
V24026S	5/8	5/8	1 5/8	4	129.50
V24040S	5/8	5/8	2 1/2	5	168.00
V24052S	5/8	5/8	3 1/4	6	237.00
V24064S	5/8	5/8	4	8	352.00
V24816S	3/4	3/4	1	4	134.50
V24826S	3/4	3/4	1 5/8	4	149.00
V24836S	3/4	3/4	2 1/4	5	223.00
V24852S	3/4	3/4	3 1/4	6	269.00
V24864S	3/4	3/4	4	7	355.00
V24880S	3/4	3/4	5	8	465.00
V26424S	1	1	1 1/2	4	249.00
V26436S	1	1	2 1/4	5	323.00
V26448S	1	1	3	6	349.00
V26464S	1	1	4	7	498.00
V26488S	1	1	5 1/2	8	689.00

UNIQUELY DESIGNED WITH DOUBLE VARIABLE HELIX. TRI HOOK INTERFACE GEOMETRY.

POLISHED SKI-LAND - WIPER FLAT FOR IMPROVED CORNER STRENGTH.

CYLINDRICAL VARA LAND. **TOP SECRET** BLACK STEALTH COATING (DON'T ASK)

THESE TOOLS HAVE A VERY HIGH METAL REMOVAL RATE.

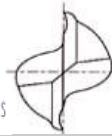
PRODUCES SUPERIOR SURFACE FINISHES

2012

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CARBIDE, 2 FLUTE 42° HELIX REGULA & LONG LENGTH - "BANSHEE"

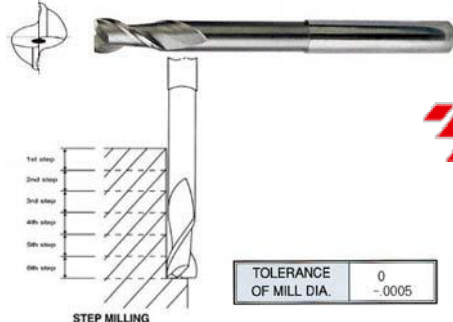
■ **FLAT SHANK, 2 FLUTE REGULAR & LONG LENGTH / E5253 Series 42° Helix**

SIZE				Uncoated		TiCN-Coated	
DIA	SHANK	LOC	OAL	EDP No.	Price US\$	EDP No.	Price US\$
1/4	3/8	3/4	2-1/2	17574	\$21.50	17574TC	\$29.00
5/16	3/8	13/16	2-1/2	17580	\$23.00	17580TC	\$30.50
3/8	3/8	1	2-1/2	17584	\$27.00	17584TC	\$34.00
1/2	1/2	1	3	17593	\$43.00	17593TC	\$52.00
1/2	1/2	2	4	18593	\$68.50	18593TC	\$80.00
5/8	5/8	1-1/4	3-1/2	17595	\$83.00	17595TC	\$96.00
3/4	3/4	1-1/2	4	17598	\$116.00	17598TC	\$132.00
3/4	3/4	3	5-1/2	18598	\$153.00	18598TC	\$177.00
1	1	1-1/2	4	17600	\$209.00	17600TC	\$233.00
1	1	3	5-1/2	18600	\$226.00	18600TC	\$253.00

EXTENDED NECK / E5976 Series 2 FLUTE 37° Helix

SIZE						Uncoated		TiCN-Coated	
DAI.	SHANK DIA	LENGTH OF CUT	L.B.S.	O.A.L.	NECK DIA	EDP No.	Price US\$	EDP No.	Price US\$
1/4	1/4	3/8	2-1/4	4	.220	39573	\$25.00	39573TC	\$29.00
3/8	3/8	1/2	2-1/4	4	.345	39584	\$45.00	39584TC	\$50.00
1/2	1/2	5/8	2-1/4	5	.470	39593	\$69.00	39593TC	\$79.00
1/2	1/2	5/8	3-1/4	6	.470	39908	\$79.00	39908TC	\$89.00
1/2	1/2	5/8	4	6	.470	39901	\$79.00	39901TC	\$89.00
5/8	5/8	3/4	2-1/4	5	.585	39595	\$95.00	39595TC	\$105.00
5/8	5/8	3/4	3-1/4	6	.585	39902	\$109.00	39902TC	\$121.00
5/8	5/8	3/4	4-1/4	7	.585	39903	\$124.00	39903TC	\$139.00
3/4	3/4	1	2-1/4	5	.710	39598	\$124.00	39598TC	\$139.00
3/4	3/4	1	3-1/4	6	.710	39904	\$142.00	39904TC	\$148.00
3/4	3/4	1	4-1/4	7	.710	39905	\$149.00	39905TC	\$165.00
1	1	1-1/8	2-1/4	5	.960	39600	\$259.00	39600TC	\$269.00
1	1	1-1/8	3-1/4	6	.960	39906	\$289.50	39906TC	\$319.00
1	1	1-1/8	4-1/4	7	.960	39907	\$319.25	39907TC	\$340.00

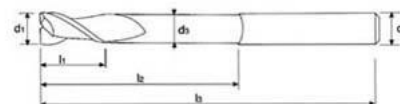
2012



1/4



- High velocity milling of aluminum & other non-ferrous materials.
- Excellent plunging capabilities.
- Improved surface roughness - cylindrical margin which is controlled tightly (see page 99).
- Maximum - stock removal, chip ejection, stability.



2 FLUTE VIPER 45 DEGREE HELIX EXTENDED NECK CARBIDE WITH BLACK STEALTH COATING

EDP #	CUTTER DIA	SHANK DIA	LOC	L.B.S.	NECK DIA	OAL	STEALTH PRICE
V2161217S	1/4	1/4	3/4	2 1/8	.235	4	\$54.00
V2200717S	5/16	5/16	7/16	2 1/8	.291	4	\$59.00
V2241617S	3/8	3/8	1	2 1/8	.355	4	\$59.00
V2321017S	1/2	1/2	5/8	2 1/8	.475	4	\$97.00
V2321227S	1/2	1/2	3/4	3 3/8	.475	6	\$124.00
V2321048S	1/2	1/2	5/8	6	.475	8	\$257.00
V2401219S	5/8	5/8	3/4	2 3/8	.590	5	\$154.00
V2401227S	5/8	5/8	3/4	3 3/8	.590	6	\$189.00
V2401248S	5/8	5/8	3/4	6	.590	8	\$323.00
V2481612S	3/4	3/4	1	1 1/2	.715	4	\$154.00
V2481620S	3/4	3/4	1	2 1/2	.715	5	\$199.00
V2481627S	3/4	3/4	1	3 3/8	.715	6	\$238.00
V2481648S	3/4	3/4	1	6	.715	8	\$429.00
V2641617S	1	1	1	2 1/8	.960	5	\$309.00
V2642027S	1	1	1 1/4	3 3/8	.960	6	\$369.00
V2642035S	1	1	1 1/4	4 3/8	.960	7	\$479.00
V2642048S	1	1	1 1/4	6	.960	8	\$564.00

3 FLUTE VIPER 45 DEGREE EXTENDED NECK CARBIDE WITH BLACK STEALTH COATING

V3160809S	1/4	1/4	1/2	2 1/8	.235	4	\$49.50
V3200717S	5/16	5/16	7/16	2 1/8	.291	4	\$59.00
V3241017S	3/8	3/8	5/8	2 1/8	.355	4	\$59.00
V3321017S	1/2	1/2	5/8	2 1/8	.475	4	\$97.50
V3321020S	1/2	1/2	5/8	2 1/2	.475	5	\$105.00
V3321227S	1/2	1/2	3/4	3 3/8	.475	6	\$124.00
V3401219S	5/8	5/8	3/4	2 3/8	.590	5	\$154.00
V3401227S	5/8	5/8	3/4	3 3/8	.590	6	\$189.00
V3401248S	5/8	5/8	3/4	6	.590	8	\$323.00
V3481620S	3/4	3/4	1	2 1/2	.715	5	\$209.00
V3481627S	3/4	3/4	1	3 3/8	.715	6	\$238.00
V3481648S	3/4	3/4	1	6	.715	8	\$429.00
V3641617S	1	1	1	2 1/8	.960	5	\$309.00
V3642027S	1	1	1 1/4	3 3/8	.960	6	\$369.00
V3642035S	1	1	1 1/4	4 3/8	.960	7	\$482.00
V3642048S	1	1	1 1/4	6	.960	8	\$564.00
V3643272S	1	1	2	9	.960	13	\$839.00
V3643280S	1	1	2	10	.960	16	\$1558.00
V380320S	1 1/4	1 1/4	2	NNK	1 1/4	7 1/2	\$1015.00
V3803200S	1 1/4	1 1/4	2	NNK	1 1/4	12	\$1625.00

EXTENDED NECK CARBIDE ENDMILLS ARE IDEAL FOR HIGH SPEED STEP DOWN MACHINING IN LONG REACH APPLICATIONS. PROVIDES HIGHER RIGIDITY AND STABILITY.
UNIQUELY DESIGNED WITH DOUBLE VARIABLE HELIX. TRI HOOK INTERFACE GEOMETRY.
POLISHED SKI-LAND - WIPER FLAT FOR IMPROVED CORNER STRENGTH.

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HIGH PERFORMANCE CARBIDE ALUMINUM | Milling Products

CARBIDE, 2 FLUTE 50 HELIX BALL NOSE WITH NECK



TOLERANCE
OF MILL DIA. ±.0010

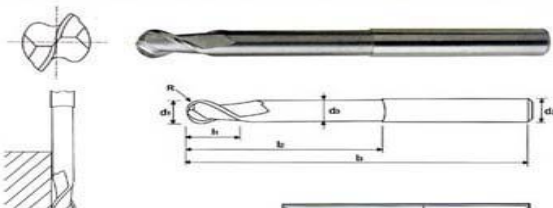


- ▶ Excellent cutting qualities on stainless steel, aluminum, copper.
- ▶ Increased tool life and higher cutting accuracy.

MILL DIA d1	SHANK DIA d2	LENGTH OF CUT L1	L.B. SHANK L2	OVERALL LENGTH L3	NECK DIAMETER d3	EDP No.	Price US\$	EDP No. coated	Price US\$
1/4	1/4	7/32	1	2-1/4	.226	37573	\$16.50	37573TC	\$20.50
5/16	5/16	9/32	1-1/8	2-1/2	.280	37579	\$18.00	37579TC	\$26.50
3/8	3/8	11/32	1-3/8	3	.335	37584	\$26.50	37584TC	\$32.00
1/2	1/2	13/32	1-1/2	3	.460	37593	\$34.50	37593TC	\$40.50
5/8	5/8	9/16	2	3-1/2	.566	37595	\$57.00	37595TC	\$68.00
3/4	3/4	11/16	2	4	.671	37598	\$89.00	37598TC	\$98.00

HIGH PERFORMANCE CARBIDE ALUMINUM | Milling Products

CARBIDE, 2 FLUTE 37 HELIX BALL NOSE - LONG REACH



- ▶ High velocity milling of aluminum & other non-ferrous materials.
- ▶ Extended neck design which is suitable for step milling.
- ▶ Improved surface roughness-cylindrical margin which is controlled tightly (see page 103)

MILL DIA d1	SHANK DIA d2	LENGTH OF CUT L1	LENGTH OF BELOW SHANK L2	OVERALL LENGTH L3	NECK DIAMETER d3	EDP No.	Price US\$	EDP No.	Price US\$
1/4	1/4	3/8	2-1/4	4	.220	89573	\$27.00	89573TC	\$31.50
3/8	3/8	1/2	2-1/4	4	.345	89584	\$48.00	89584TC	\$55.00
1/2	1/2	5/8	2-1/4	5	.470	89593	\$75.00	89593TC	\$81.50
1/2	1/2	5/8	3-1/4	6	.470	89901	\$83.00	89901TC	\$91.50
1/2	1/2	5/8	4	6	.470	89902	\$85.00	89902TC	\$95.00
5/8	5/8	3/4	2-1/4	5	.585	89595	\$109.00	89595TC	\$119.00
5/8	5/8	3/4	3-1/4	6	.585	89903	\$121.00	89903TC	\$133.00
5/8	5/8	3/4	4-1/4	7	.585	89904	\$135.00	89904TC	\$146.50
3/4	3/4	1	2-1/4	5	.710	89598	\$131.00	89598TC	\$141.50
3/4	3/4	1	3-1/4	6	.710	89905	\$149.00	89905TC	\$158.50
3/4	3/4	1	4-1/4	7	.710	89906	\$160.50	89906TC	\$173.00
1	1	1-1/8	2-1/4	5	.960	89600	\$284.50	89600TC	\$295.50
1	1	1-1/8	3-1/4	6	.960	89907	\$315.50	89907TC	\$331.00
1	1	1-1/8	4-1/4	7	.960	89908	\$343.50	89908TC	\$360.00

15121 Graham St #107

HUNTINGTON BEACH CA 92649

888-857-6835





2 Flute Aluminum Rougher/Finisher Ski-Carb 45 Degree Helix Zirconium Nitride Coating

DIA	SHANK	LOC	OAL	EDP#	ZRN Price 2011
1/4	3/8	3/4	2 7/16	57410	\$27.50
1/4	3/8	1 1/4	3 1/16	57412	\$43.00
1/4	3/8	1 3/4	3 9/16	57414	\$59.50
5/16	3/8	1 3/8	3 1/8	57420	\$52.50
3/8	3/8	3/4	2 1/2	57430	\$39.50
3/8	3/8	1 1/2	3 1/4	57432	\$49.50
3/8	3/8	2 1/2	4 1/4	57434	\$88.00
1/2	1/2	1 1/4	3 1/4	57440	\$59.50
1/2	1/2	2	4	57442	\$84.50
1/2	1/2	3	5	57444	\$146.00
5/8	5/8	1 5/8	3 3/4	57450	\$109.50
5/8	5/8	2 1/2	4 5/8	57452	\$149.50
3/4	3/4	1 5/8	3 7/8	57460	\$153.50
3/4	3/4	3	5 1/4	57462	\$198.50
3/4	3/4	4	6 1/4	57464	\$339.50
1	1	2	4 1/2	57470	\$249.50
1	1	4	6 1/2	57472	\$469.50

3 FLUTE ALUMINUM FINISHER/ROUGHER TRI POWER 45 Degree Helix ZRN Coating

DIA	SHANK	LOC	OAL	EDP#	ZRN Pricing
1/4	3/8	3/4	2 7/16	57473	\$29.50
1/4	3/8	1 1/4	3 1/16	57474	\$46.00
1/4	3/8	1 3/4	3 9/16	57475	\$67.50
5/16	3/8	1 3/8	3 1/8	57476	\$52.00
3/8	3/8	3/4	2 1/2	57477	\$43.50
3/8	3/8	1 1/2	3 1/4	57478	\$54.50
3/8	3/8	2 1/2	4 1/4	57479	\$96.50
1/2	1/2	1 1/4	3 1/4	57480	\$64.50
1/2	1/2	2	4	57481	\$92.50
1/2	1/2	3	5	57482	\$159.50
5/8	5/8	1 5/8	3 3/4	57483	\$119.50
5/8	5/8	2 1/2	4 5/8	57484	\$164.50
3/4	3/4	1 5/8	3 7/8	57485	\$168.50
3/4	3/4	3	5 1/4	57486	\$217.50
3/4	3/4	4	6 1/4	57487	\$373.50
1	1	2	4 1/2	57488	\$274.50
1	1	4	6 1/2	57489	\$518.00

High Shear, 45 degree helix polished primary ski-land with inter-flute geometry
Dramatically enhance chip evacuation and permit increased chip loads as well as aggressive feed rates.

AEROSPACE AND DEFENSE
NAS 986 SPECIFICATIONS

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3 FLUTE ALUMINUM FINISHER SQ AND RADIUS 40 Degree Helix Zirconium Nitride Coating

DIA	SHANK	LOC	AOL	Part#	ZRN Price	.030 RAD	.060 RAD	.090 RAD	.125 RAD	.156 RAD	.188 RAD
1/8	1/8	1/4	1 1/2	58000	\$12.50						
1/8	1/8	1/2	1 1/2	58005	\$13.50						
5/32	3/16	5/16	2	58011	\$16.50						
5/32	3/16	9/16	2	58017	\$17.50						
3/16	3/16	5/16	2	58023	\$16.00						
3/16	3/16	9/16	2	58029	\$18.00						
7/32	1/4	3/8	2	58035	\$24.00						
7/32	1/4	3/4	2 1/2	58041	\$26.50						
1/4	1/4	3/8	2	58046	\$23.50	58215					
1/4	1/4	3/4	2 1/2	58049	\$24.50	58217					
1/4	1/4	1 1/4	3	58052	\$36.00	58219					
1/4	1/4	1 1/2	3 1/2	58055	\$41.00	58221					
1/4	1/4	2	4	58058	\$47.50	58223					
5/16	5/16	7/16	2	58067	\$25.00	58225	58227				
5/16	5/16	13/16	2 1/2	58070	\$28.50	58229	58231				
5/16	5/16	1 1/4	3	58073	\$49.50	58233	58235				
5/16	5/16	1 5/8	3 1/2	58076	\$54.00	58237	58239				
5/16	5/16	2 1/8	4	58079	\$57.00	58241	58243				
3/8	3/8	1/2	2	58088	\$29.00	58245	58246				
3/8	3/8	1	2 1/2	58091	\$33.50	58247	58248				
3/8	3/8	1 1/2	3	58094	\$42.50	58249	58250				
3/8	3/8	2	4	58097	\$56.00	58251	58252				
3/8	3/8	2 1/2	6	58100	\$75.00	58253	58254				
1/2	1/2	5/8	2 1/2	58117	\$45.50	58255	58256	58257	58258		
1/2	1/2	1 1/4	3	58123	\$52.00	58259	58260	58261	58262		
1/2	1/2	1 5/8	4	58129	\$68.50	58263	58264	58265	58266		
1/2	1/2	2	4	58135	\$78.50	58267	58268	58269	58270		
1/2	1/2	2 1/2	5	58141	109.00	58271	58272	58273	58274		
1/2	1/2	3 1/8	6	58146	\$126.50	58275	58276	58277	58278		
5/8	5/8	3/4	3	58149	\$84.50	58279	58280	58281	58282		
5/8	5/8	1 5/8	3 1/2	58155	\$94.50	58283	58284	58285	58286		
5/8	5/8	2 1/8	4	58161	\$123.00	58287	58288	58289	58290		
5/8	5/8	2 1/2	5	58167	\$148.00	58291	58292	58293	58294		
5/8	5/8	3 1/4	6	58172	\$169.50	58295	58296	58297	58298		
5/8	5/8	3 3/4	6	58175	\$197.50	58299	58300	58301	58303		
3/4	3/4	1	3	58178	\$117.50	58305	58307	58309	58311	58313	58315
3/4	3/4	1 5/8	4	58181	\$131.50	58317	58319	58321	58323	58325	58327
3/4	3/4	2 1/4	5	58184	\$173.50	58329	58331	58333	58335	58337	58339
3/4	3/4	3 1/4	5	58187	\$199.50	58341	58343	58345	58347	58349	58351
3/4	3/4	4	6	58190	\$289.50	58353	58355	58357	58359	58361	58363
1	1	1 1/4	3	58193	\$209.50	58365	58366	58367	58368	58369	58370
1	1	2	4	58196	\$231.00	58371	58372	58373	58374	58375	58376
1	1	2 5/8	5	58199	\$249.00	58378	58379	58380	58381	58382	58383
1	1	3 1/4	6	58203	\$279.00	58384	58385	58386	58387	58388	58389
1	1	4 1/8	7	58209	\$399.50	58390	58391	58392	58393	58394	58395

PRICE TO ADD RADIUS

.030 -.060 - \$10.00

.090 -.125 - \$16.00

.156 -.188 - \$20.00

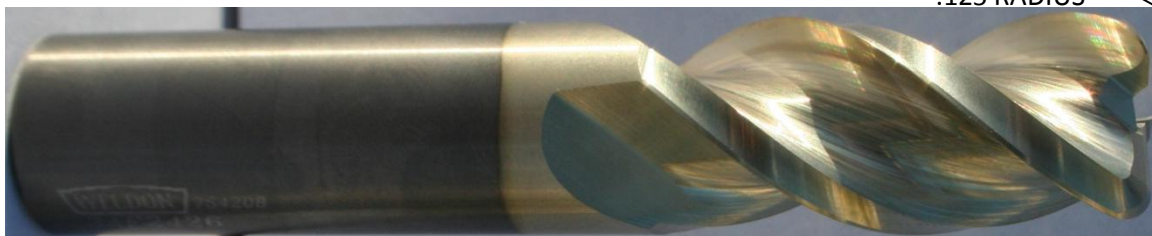
**High Shear 40 Degree Helix with a cylindrical margin to
Provide chatter resistant machining and superior finishes
in all non-ferrous metal**

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.125 RADIUS



Aerospace and Defense
NAS 986 Specifications

3 FLUTE VIPER D.V.H 45 DEGREE HELIX CARBIDE- BLACK STEALTH COATING



EDP STEALTH	CUTTER DIA	SHANK DIA	LOC	OAL	PRICE
V30805S	1/8	1/8	5/16	1 1/2	13.50
V30808S	1/8	1/8	1/2	1 1/2	16.50
V30812S	1/8	1/8	3/4	2	29.00
V31210S	3/16	3/16	5/8	2	23.50
V31216S	3/16	3/16	1	2 1/2	33.50
V31608S	1/4	1/4	1/2	2	28.50
V31612S	1/4	1/4	3/4	2 1/2	29.00
V31620S	1/4	1/4	1 1/4	3	41.00
V32008S	5/16	5/16	1/2	2	33.00
V32013S	5/16	5/16	13/16	2 1/2	36.50
V32020S	5/16	5/16	1 1/4	3	58.50
V32410S	3/8	3/8	5/8	2	36.00
V32416S	3/8	3/8	1	2 1/2	38.00
V32420S	3/8	3/8	1 1/4	3	47.00
V32424S	3/8	3/8	1 1/2	4	66.00
V33210S	1/2	1/2	5/8	3	54.00
V33220S	1/2	1/2	1 1/4	3	59.50
V33224S	1/2	1/2	1 1/2	4	84.50
V33232S	1/2	1/2	2	4	95.00
V33240S	1/2	1/2	2 1/2	5	137.00
V33248S	1/2	1/2	3	6	143.00
V34012S	5/8	5/8	3/4	3 1/2	99.00
V34026S	5/8	5/8	1 5/8	4	129.00
V34032S	5/8	5/8	2	5	163.00
V34816S	3/4	3/4	1	4	134.00
V34826S	3/4	3/4	1 5/8	4	148.00
V34836S	3/4	3/4	2 1/4	5	223.00
V34852S	3/4	3/4	3 1/4	6	269.00
V36424S	1	1	1 1/2	4	239.00
V36436S	1	1	2 1/4	5	309.00
V36440S	1	1	2 1/2	5	313.00
V36452S	1	1	3 1/4	6	345.00
V38036S	1 1/4	1 1/4	2 1/4	5 1/2	737.00



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UNIQUELY DESIGNED WITH DOUBLE VARIABLE HELIX. TRI HOOK INTERFACE GEOMETRY.

POLISHED SKI-LAND - WIPER FLAT FOR IMPROVED CORNER STRENGTH.

CYLINDRICAL VERA LAND. **TOP SECRET** BLACK STEALTH COATING (DON'T ASK)

THESE TOOLS HAVE A VERY HIGH METAL REMOVAL RATE.

PRODUCES SUPERIOR SURFACE FINISHES

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HIGH PERFORMANCE CARBIDE ALUMINUM | Milling Products

CARBIDE, 3 FLUTE 45 HELIX STUB LENGTH



- Designed to machine aluminium at high speed condition.
- Improved surface roughness - cylindrical margin which is controlled tightly.

STUB LENGTH / E5980 Series

SIZE				Uncoated		TiCN-Coated	
DIA	SHANK DIA	L.O.C.	O.A.L.	EDP No.	Price US\$	EDP No.	Price US\$
1/8	1/8	1/4	1-1/2	25558	\$10.00	25558TC	\$11.50
3/16	3/16	5/16	2	25565	\$11.00	25565TC	\$13.00
1/4	1/4	3/8	2	25573	\$12.00	25573TC	\$15.50
5/16	5/16	7/16	2	25579	\$15.00	25579TC	\$18.50
3/8	3/8	1/2	2	25584	\$15.50	25584TC	\$19.50
7/16	7/16	9/16	2-1/2	25588	\$26.00	25588TC	\$31.00
1/2	1/2	5/8	2-1/2	25593	\$27.00	25593TC	\$34.50
5/8	5/8	3/4	3	25595	\$57.50	25595TC	\$67.50
3/4	3/4	1	3	25598	\$69.00	25598TC	\$78.50
1	1	1-1/4	3	25600	\$151.00	25600TC	\$160.50

HIGH PERFORMANCE CARBIDE ALUMINUM | Milling Products

CARBIDE, 3 FLUTE 45 HELIX REGULAR LENGTH
REGULAR LENGTH / E5981 Series



SIZE				Uncoated		TiCN-Coated	
DIA	SHANK	L.O.C.	O.A.L.	EDP No.	Price US\$	EDP No.	Price US\$
1/8	1/8	3/8	1-1/2	28558	\$12.00	28558TC	\$13.50
3/16	3/16	9/16	2	28565	\$13.00	28565TC	\$15.00
1/4	1/4	5/8	2-1/2	28573	\$14.50	28573TC	\$18.50
5/16	5/16	5/8	2-1/2	28579	\$16.50	28579TC	\$21.50
3/8	3/8	1	2-1/2	28584	\$19.00	28584TC	\$25.00
7/16	7/16	1-1/4	2-3/4	28588	\$31.50	28588TC	\$39.00
1/2	1/2	1-1/4	3	28593	\$34.00	28593TC	\$41.50
5/8	5/8	1-5/8	3-1/2	28595	\$72.00	28595TC	\$84.00
3/4	3/4	1-5/8	4	28598	\$87.00	28598TC	\$99.00
1	1	2	5	28600	\$205.00	28600TC	\$224.00

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Huntington Beach CA 92649
888-857-6835

CARBIDE, 3 FLUTE 45 HELIX LONG LENGTH



TOLERANCE OF MILL DIA.	0 -.0005
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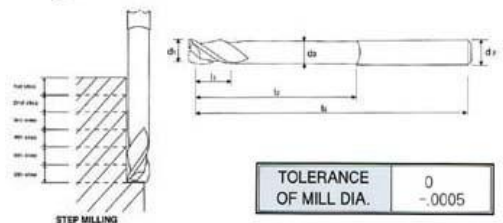
- High velocity milling of aluminum & other non-ferrous materials.
- 3flute and 45° helix allow harmonic balance at high speed condition and smooth cutting.
- Improved surface roughness - cylindrical margin which is controlled tightly(see page 103).
- Maximum-stock removal, chip ejection, stability.



LONG LENGTH / E5982 Series

SIZE				Uncoated		TiCN-Coated	
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	EDP No.	Price US\$	EDP No.	Price US\$
1/4	1/4	1-1/4	3-1/4	36573	21.00	36573TC	\$26.50
5/16	5/16	1-1/4	3-1/2	36579	24.50	36579TC	\$30.50
3/8	3/8	1-1/2	3-1/2	36584	29.00	36584TC	\$37.00
7/16	7/16	2	4	36588	44.00	36588TC	\$54.00
1/2	1/2	2	4	36593	47.00	36593TC	\$57.00
5/8	5/8	2-1/2	5	36595	109.00	36595TC	\$123.00
3/4	3/4	3-1/4	6	36598	135.00	36598TC	\$153.00
1	1	3-1/4	6	36600	252.00	36600TC	\$273.00

CARBIDE, 3 FLUTE 37 HELIX WITH EXTENDED NECK



TOLERANCE OF MILL DIA.	0 -.0005
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- High velocity milling of aluminum & other non-ferrous materials.
- 3flute and 37° helix allow harmonic balance at high speed condition and smooth cutting.
- Improved surface roughness - cylindrical margin which is controlled tightly(see page 103).
- Maximum-stock removal, chip ejection, stability.

EXTENDED NECK / E5977 Series

SIZE						Uncoated		TiCN-Coated	
MILL DIA d1	SHANK DIA d2	LOC L1	LBS L2	OAL	NECK DIA d3	EDP No.	Price US\$	EDP No.	Price US\$
1/4	1/4	3/8	2-1/4	4	.220	40573	24.00	40573TC	29.00
3/8	3/8	1/2	2-1/4	4	.345	40584	43.00	40584TC	49.00
1/2	1/2	5/8	2-1/4	5	.470	40593	68.00	40593TC	74.00
1/2	1/2	5/8	3-1/4	6	.470	40901	76.00	40901TC	88.00
1/2	1/2	5/8	4	6	.470	40902	78.00	40902TC	90.00
5/8	5/8	3/4	2-1/4	5	.585	40595	96.00	40595TC	106.00
5/8	5/8	3/4	3-1/4	6	.585	40903	109.00	40903TC	122.00
5/8	5/8	3/4	4-1/4	7	.585	40904	119.00	40904TC	134.00
3/4	3/4	1	2-1/4	5	.710	40598	123.00	40598TC	135.00
3/4	3/4	1	3-1/4	6	.710	40905	136.00	40905TC	147.00
3/4	3/4	1	4-1/4	7	.710	40906	147.00	40906TC	165.00
1	1	1-1/8	2-1/4	5	.960	40600	247.00	40600TC	265.00
1	1	1-1/8	3-1/4	6	.960	40907	282.00	40907TC	309.00
1	1	1-1/8	4-1/4	7	.960	40908	310.00	40908TC	335.00

3 FL DIAMOND BACK CARBIDE ROUGHERS BLACK STEALTH COATING

EDP #	CUTTER DIA	SHANK DIA	LOC	OAL	RAD	PRICE
DR31612R020S	1/4	1/4	3/4	2 1/2	.020	34.50
DR32416R020S	3/8	3/8	1	2 1/2	.020	45.00
DR33210R030S	1/2	1/2	5/8	3	.030	67.00
DR33220R030S	1/2	1/2	1 1/4	3	.030	75.00
DR33232R030S	1/2	1/2	2	4	.030	109.00
DR34012R030S	5/8	5/8	3/4	3 1/2	.030	128.00
DR34026R030S	5/8	5/8	1 5/8	4	.030	142.50
DR34816R030S	3/4	3/4	1	4	.030	153.00
DR34826R030S	3/4	3/4	1 5/8	4	.030	175.00
DR34836R030S	3/4	3/4	2 1/4	5	.030	229.00
DR34852R030S	3/4	3/4	3 1/4	6	.030	285.00
DR36424R030S	1	1	1 1/2	4	.030	292.00
DR36436R030S	1	1	2 1/4	5	.030	343.00
DR36452R030S	1	1	3 1/4	6	.030	366.00



3FL DIAMOND BACK EXTENDED NECK CARBIDE ROUGHERS BLACK STEALTH COATING

EDP#	CUTTER DIA	SHANK DIA	LOC	LBS	NECK DIA	OAL	RAD	PRICE
DR3321017R030S	1/2	1/2	5/8	2 1/8	.475	4	.030	109.00
DR3321020R030S	1/2	1/2	5/8	2 1/8	.475	5	.030	119.00
DR3321227R030S	1/2	1/2	3/4	3 1/8	.475	6	.030	139.00
DR3401227R030S	5/8	5/8	3/4	3 3/8	.590	6	.030	209.00
DR3481616R030S	3/4	3/4	1	2	.715	5	.030	227.00
DR3481627R030S	3/4	3/4	1	3 3/8	.715	6	.030	249.00
DR3642027R030S	1	1	1 1/4	3 3/8	.960	6	.030	389.00



FEED AS FAST AS YOUR MACHINE WILL ALLOW! DIAMOND BACK DESIGN HAS IMPROVED CHIP EJECTION WITH HIGH FEED RATES THE DOUBLE VARIABLE 45 DEGREE HELIX WITH WIPER FLAT & CORNER RADIUS FOR IMPROVED CORNER STRENGTH. TRI HOOK INTERFACE GEOMETRY CYLINDRICAL VARALAND ALLOWS FOR CHATTER FREE CUTTING, AS FAST AS YOU CAN GO.

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V7 4FL, VARIABLE HELIX, REGULAR LENGTH CORNER RADIUS END MILL

CORNER RADIUS	MILL DIA	SHANK DIAMETER	LOC	OAL	EDP No.	PRICE
.010~.015	1/8	1/8	3/8	1-1/2	EMB13008	\$9.50
.010~.015	3/16	3/16	7/16	2	EMB13012	\$13.00
.015~.020	1/4	1/4	1/2	2-1/2	EMB13016	\$16.00
.015~.020	5/16	5/16	13/16	2-1/2	EMB13020	\$22.00
.015~.020	3/8	3/8	7/8	2-1/2	EMB38024	\$26.50
.015~.020	7/16	7/16	1	2-3/4	EMB38028	\$36.50
.025~.030	1/2	1/2	1	3	EMB38032	\$43.50
.025~.030	9/16	9/16	1-1/8	3-1/2	EMB38036	\$76.50
.035~.040	5/8	5/8	1-1/4	3-1/2	EMB38040	\$82.00
.035~.040	3/4	3/4	1-1/2	4	EMB38048	\$120.00
.035~.040	1	1	1-1/2	4	EMB38064	\$189.00



V7 4FL, VARIABLE HELIX, REGULAR LENGTH CARBIDE END MILL

MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	EDP No.	PRICE
1/8	1/8	3/8	1-1/2	EMB12008	\$9.00
5/32	3/16	7/16	2	EMB12010	\$13.00
3/16	3/16	7/16	2	EMB12012	\$12.50
7/32	1/4	7/16	2-1/2	EMB12014	\$15.50
1/4	1/4	1/2	2-1/2	EMB12016	\$15.50
9/32	5/16	5/8	2-1/2	EMB12018	\$21.00
5/16	5/16	13/16	2-1/2	EMB12020	\$21.00
11/32	3/8	13/16	2-1/2	EMB12022	\$25.00
3/8	3/8	7/8	2-1/2	EMB37024	\$25.00
13/32	7/16	15/16	2-3/4	EMB37026	\$34.50
7/16	7/16	1	2-3/4	EMB37028	\$34.50
15/32	1/2	1	3	EMB37030	\$41.50
1/2	1/2	1	3	EMB37032	\$41.50
9/16	9/16	1-1/8	3-1/2	EMB37036	\$72.50
5/8	5/8	1-1/4	3-1/2	EMB37040	\$77.50
3/4	3/4	1-1/2	4	EMB37048	\$114.00
1	1	1-1/2	4	EMB37064	\$180.00



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■ V7 MILL 4FLUTE EXTENDED LENGTH EM (LONG REACH) SQUARE END WITH CHAMFER AND SPECIFIC NECK CLEARANCE RELIEF



EDP NO.	MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	REACH LENGTH	OVERALL LENGTH	PRICE
EMB20160	1/4	1/4	3/8	1-1/4	4	\$19.50
EMB20240	3/8	3/8	1/2	1-7/8	4	\$30.50
EMB20320	1/2	1/2	5/8	2-1/4	4	\$50.00
EMB20400	5/8	5/8	3/4	2-1/4	4-1/8	\$79.50
EMB20401	5/8	5/8	3/4	3-1/4	5	\$107.00
EMB20480	3/4	3/4	1	2-1/4	4-1/4	\$150.00
EMB20481	3/4	3/4	1	3-1/4	5-1/2	\$163.00
EMB20640	1	1	1-1/8	2-1/4	4-1/2	\$239.00
EMB20641	1	1	1-1/8	3-1/4	5-1/2	\$247.00
EMB20642	1	1	1-1/8	4-1/4	6-1/2	\$273.00

V7 MILL, 5 FLUTE REGULAR LENGTH END MILL

EDP NO.	MILL DIA	SHANK DIA	L.O.C.	OAL	Shank	PRICE
EMB76016	1/4	1/4	1/2	2-1/2	Plain	\$19.50
EMB76020	5/16	5/16	13/16	2-1/2	Plain	\$25.50
EMB77024	3/8	3/8	7/8	2-1/2	Flat	\$30.50
EMB77032	1/2	1/2	1	3	Flat	\$51.00
EMB77036	9/16	9/16	1-1/8	3-1/2	Flat	\$91.00
EMB77040	5/8	5/8	1-1/4	3-1/2	Flat	\$95.00
EMB77048	3/4	3/4	1-1/2	4	Flat	\$142.00
EMB77064	1	1	1-1/2	4	Flat	\$219.00



V7 MILL, 4 FLUTE REGULAR LENGTH BALL END MILL

EDP NO.	MILL DIA	SHANK DIA	L.O.C.	O.A.L.	Shank	PRICE
EMB78008	1/8	1/8	3/8	1-1/2	Plain	\$11.00
EMB78010	5/32	3/16	7/16	2	Plain	\$17.00
EMB78012	3/16	3/16	7/16	2	Plain	\$17.00
EMB78016	1/4	1/4	1/2	2-1/2	Plain	\$18.50
EMB78020	5/16	5/16	13/16	2-1/2	Plain	\$25.00
EMB79024	3/8	3/8	7/8	2-1/2	Flat	\$30.00
EMB79032	1/2	1/2	1	3	Flat	\$49.50
EMB79040	5/8	5/8	1-1/4	3-1/2	Flat	\$93.00
EMB79048	3/4	3/4	1-1/2	4	Flat	\$138.00
EMB79064	1	1	1-1/2	4	Flat	214.00

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31





4 FLUTE RAPTOR CARBIDE DOUBLE VARIABLE HELIX WITH ALTIN COATING

EDP#	CUTTER DIA	SHANK DIA	LOC	OAL	RAD	PRICE
DVH40804RC	1/8	1/8	1/4	1 1/2	.008-.012	14.50
DVH40806RC	1/8	1/8	3/8	1 1/2	.008-.012	15.00
DVH41205RC	3/16	3/16	5/16	2	.008-.012	19.50
DVH41207RC	3/16	3/16	7/16	2	.008-.012	21.00
DVH41606RC	1/4	1/4	3/8	2	.015-.020	20.00
DVH41608RC	1/4	1/4	1/2	2 1/2	.015-.020	25.00
DVH41612RC	1/4	1/4	3/4	2 1/2	.015-.020	25.50
DVH42008RC	5/16	5/16	1/2	2	.015-.020	27.50
DVH42013RC	5/16	5/16	13/16	2 1/2	.015-.020	29.00
DVH42408RC	3/8	3/8	1/2	2	.015-.020	34.00
DVH42414RC	3/8	3/8	7/8	2 1/2	.015-.020	37.00
DVH43210RC	1/2	1/2	5/8	3	.025-.030	58.00
DVH43220RC	1/2	1/2	1 1/4	3	.025-.030	65.00
DVH43232RC	1/2	1/2	2	4	.025-.030	99.00
DVH44012RC	5/8	5/8	3 1/4	3	.035-.040	98.00
DVH44020RC	5/8	5/8	1 1/4	3 1/2	.035-.040	103.00
DVH44036RC	5/8	5/8	2 1/4	5	.035-.040	153.00
DVH44816RC	3/4	3/4	1	3	.035-.040	134.50
DVH44824RC	3/4	3/4	1 1/2	4	.035-.040	149.00
DVH44836RC	3/4	3/4	2 1/4	5	.035-.040	199.00
DVH44852RC	3/4	3/4	3 1/4	6	.035-.040	249.00
DVH46416RC	1	1	1	3	.035-.040	239.00
DVH46424RC	1	1	1 1/2	4	.035-.040	249.00
DVH46436RC	1	1	2 1/4	5	.035-.040	299.00
DVH46452RC	1	1	3 1/4	6	.035-.040	339.00

4 FLUTE EXTENDED NECK RAPTOR CARBIDE DOUBLE VARIABLE HELIX WITH ALTIN COATING

EDP#	CUTTER DIA	SHANK DIA	LOC	LBS	NECK DIA	OAL	RAD	PRICE ALTIN
DVH416080RC	1/4	1/4	1/2	-	3/8	4	.015-.020	41.50
DVH420130RC	5/16	5/16	13/16	-	5/16	4	.015-.020	38.00
DVH4240815RC	3/8	3/8	1/2	1 7/8	.360	4	.015-.020	62.50
DVH424140RC	3/8	3/8	7/8	-	3/8	5	.015-.020	64.00
DVH4321017RC	1/2	1/2	5/8	2 1/8	.480	4	.025-.030	95.50
DVH432160RC	1/2	1/2	1	-	1/2	6	.025-.030	139.50
DVH4321600RC	1/2	1/2	1	-	1/2	7	.025-.030	184.50
DVH4401218RC	5/8	5/8	3/4	2 1/4	.605	5	.035-.040	185.00
DVH440200RC	5/8	5/8	1 1/4	-	5/8	6	.035-.040	199.00
DVH4401600RC	5/8	5/8	1	-	5/8	7	.035-.040	264.00
DVH4481618RC	3/4	3/4	1	2 1/4	.730	5	.035-.040	245.00
DVH4481626RC	3/4	3/4	1	3 1/4	.730	6	.035-.040	279.00
DVH4481600RC	3/4	3/4	1	-	3/4	7	.035-.040	315.00
DVH464240RC	1	1	1 1/2	-	1	6	.035-.040	385.00
DVH4642400RC	1	1	1 1/2	-	1	7	.035-.040	449.00

THE RAPTOR DESIGN HAS FULL ECCENTRIC GRIND WITH A VARIABLE FLUTE INDEX AND DOUBLE VARIABLE HELIX BETWEEN FLUTES ELIMINATE HARMONIC DISTORTION. HIGH EFFICIENCY SLOTTING AND AGGRESSIVE ROUGHING **STAINLESS STEEL*TITANIUM * INCONEL * HIGH TEMP ALL

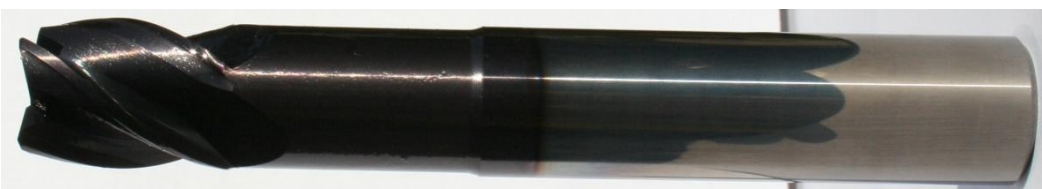
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MADE IN THE USA



**5 FLUTE EXTRA FINE MICROGRAIN CARBIDE
SUPREME TIALN COATING "MAXIMIZE TOOL LIFE"**

**C
A
R
B
I
D
E**

5045 series					
5 FLUTE, 45° HELIX					
Cutting DIA	Description Shank x LOC x OAL	UNcoated Pricing		COATED PRICING	
1/4"	1/4 X 1/2 X 2 STUB	5045-37300	\$15.50	\$18.00	5045-37475
	1/4 X 3/4 X 2-1/2 REG	5045-37305	\$17.00	\$20.00	5045-37480
	1/4 X 1-1/8 X 3 LONG	5045-37310	\$27.00	\$30.50	5045-37485
	1/4 X 1-1/2 X 4 EX LONG	5045-37315	\$30.50	\$35.00	5045-37490
	1/4 X 1-1/2 X 6 EXT EXT NECK	5045-37320	\$41.00	\$46.00	5045-37495
5/16"	5/16 X 13/16 X 2-1/2 REG	5045-37325	\$23.50	\$28.50	5045-37500
	5/16 X 1-1/8 X 3 LONG	5045-37330	\$32.00	\$37.50	5045-37505
	5/16 X 1-5/8 X 4 EX LONG	5045-37335	\$39.50	\$46.50	5045-37510
	5/16 X 1-1/2 X 6 EXT EXT NECK	5045-37340	\$53.50	\$61.50	5045-37515
3/8"	3/8 X 5/8 X 2 STUB	5045-37345	\$25.50	\$29.00	5045-37520
	3/8 X 1 X 2-1/2 REG	5045-37350	\$27.00	\$32.00	5045-37525
	3/8 X 1-1/8 X 3 LONG	5045-37355	\$39.50	\$45.50	5045-37530
	3/8 X 1-3/4 X 4 EX LONG	5045-37360	\$47.50	\$47.50	5045-37535
	3/8 X 1-1/2 X 6 EXT EXT NECK	5045-37365	\$60.00	\$68.00	5045-37540
1/2"	1/2 X 5/8 X 2-1/2 STUB	5045-37370	\$41.00	\$47.00	5045-37545
	1/2 X 1 X 3 REG	5045-37375	\$47.00	\$52.50	5045-37550
	1/2 X 2 X 4 LONG	5045-37380	\$64.50	\$72.00	5045-37555
	1/2 X 3 X 6 EX LONG	5045-37385	\$106.00	\$117.50	5045-37560
	1/2 X 1-1/2 X 6 EXT EXT NECK	5045-37390	\$100.00	\$110.00	5045-37565
5/8"	5/8 X 1 X 3 STUB	5045-37395	\$73.50	\$80.00	5045-37570
	5/8 X 1-1/2 X 4 REG	5045-37400	\$101.00	\$109.00	5045-37575
	5/8 X 2-1/4 X 5 LONG	5045-37405	\$121.00	\$131.00	5045-37580
	5/8 X 3 X 6 EX LONG	5045-37410	\$135.00	\$148.00	5045-37585
	5/8 X 1-1/2 X 6 EXT EXT NECK	5045-37415	\$169.00	\$182.00	5045-37590
3/4"	3/4 X 1 X 3 STUB	5045-37420	\$109.00	\$117.00	5045-37595
	3/4 X 1-1/2 X 4 REG	5045-37425	\$114.00	\$124.00	5045-37600
	3/4 X 2-1/4 X 5 LONG	5045-37430	\$157.50	\$169.00	5045-37605
	3/4 X 3-1/4 X 6 EX LONG	5045-37435	\$185.00	\$199.00	5045-37610
	3/4 X 4 X 7 XXX LONG	5045-37440	\$290.00	\$306.00	5045-37615
1"	3/4 X 1-1/2 X 6 EXT EXT NECK	5045-37445	\$178.00	\$192.00	5045-37620
	1 X 1-3/4 X 4 REG	5045-37450	\$182.00	\$196.00	5045-37625
	1 X 2-1/4 X 5 LONG	5045-37455	\$277.00	\$292.00	5045-37630
	1 X 3-1/4 X 6 EX LONG	5045-37460	\$297.00	\$317.00	5045-37635
	1 X 4 X 7 XXX LONG	5045-37465	\$427.00	\$448.00	5045-37640
	1 X 1-1/2 X 6 EXT EXT NECK	5045-37470	\$288.00	\$307.00	5045-37645

Price to add Radius
.030 -.187 \$16.00
.250 -.500 \$23.00

****RECOMMENDED FOR DIFFICULT TO MACHINE MATERIALS**

HARMONICALLY BALANCED FOR SMOOTHER CUTTING, HIGH SPEED CUTTING
AND FINISH MILLING WITH HIGH FEE RATE. SUPERIOR WORK PIECE FINISH.

Minicut Endmills are manufactured to the NAS 986 specifications (Aerospace Standards)

****MOBIL INVENTORY** ADD ANY RADIUS**SAME DAY DELIVERY IN MOST CASES**

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15121 Graham St #107 HUNTINGTON BEACH CA 92649

2012

pg 33





Carbide



5 Flute Finisher SQ and Radius 40 Degree Helix Altin Coated Carbide

DIA	SHANK	LOC	AOL	Altin Part#	Pricing 2011	.030 RAD	.060 RAD	.090 RAD	.125 RAD	.156 RAD	.188 RAD
1/8	1/8	1/4	1 1/2	59456	\$15.50						
1/8	1/8	1/2	1 1/2	59458	\$17.00						
5/32	3/16	5/16	2	59460	\$18.50						
5/32	3/16	9/16	2	59462	\$20.50						
3/16	3/16	5/16	2	59464	\$17.00						
3/16	3/16	9/16	2	59466	\$19.00						
7/32	1/4	3/8	2	59468	\$23.00						
7/32	1/4	3/4	2 1/2	59470	\$25.50						
1/4	1/4	3/8	2	59472	\$21.00	59692					
1/4	1/4	3/4	2 1/2	59474	\$23.50	59693					
1/4	1/4	1 1/4	3	59476	\$30.50	59694					
1/4	1/4	1 1/2	3 1/2	59478	\$37.00	59695					
1/4	1/4	2	4	59480	\$46.00	59696					
5/16	5/16	7/16	2	59486	\$29.00	59697	59698				
5/16	5/16	13/16	2 1/2	59488	\$32.00	59699	59700				
5/16	5/16	1 1/4	3	59490	\$42.00	59701	59702				
5/16	5/16	1 5/8	3 1/2	59492	\$48.50	59703	59704				
5/16	5/16	2 1/8	4	59494	\$64.50	59705	59706				
3/8	3/8	1/2	2	59502	\$32.50	59706	59707				
3/8	3/8	1	2 1/2	59504	\$35.50	59708	59709				
3/8	3/8	1 1/2	3	59506	\$44.50	59710	59711				
3/8	3/8	2	4	59508	\$53.00	59712	59713				
3/8	3/8	2 1/2	6	59510	\$84.50	59714	59715				
1/2	1/2	5/8	2 1/2	59516	\$48.00	59716	59717	59718	59719		
1/2	1/2	1 1/4	3	59518	\$52.50	59720	59721	59722	59723		
1/2	1/2	1 5/8	4	59520	\$64.50	59724	59725	59726	59727		
1/2	1/2	2	4	59522	\$74.00	59728	59729	59730	59731		
1/2	1/2	2 1/2	5	59524	\$104.50	59732	59733	59734	59735		
1/2	1/2	3 1/8	6	59526	\$148.00	59736	59737	59738	59739		
5/8	5/8	3/4	3	59528	\$93.50	59740	59741	59742	59743		
5/8	5/8	1 5/8	3 1/2	59530	\$103.00	59744	59745	59746	59747		
5/8	5/8	2 1/8	4	59532	\$119.00	59748	59749	59750	59751		
5/8	5/8	2 1/2	5	59534	\$134.50	59752	59753	59754	59755		
5/8	5/8	3 1/4	6	59536	\$167.00	59756	59757	59758	59759		
5/8	5/8	3 3/4	6	59538	\$212.00	59760	59761	59762	59763		
3/4	3/4	1	3	59540	\$127.00	59764	59765	59766	59767	59768	59769
3/4	3/4	1 5/8	4	59542	\$132.50	59770	59771	59772	59773	59774	59775
3/4	3/4	2 1/4	5	59544	\$172.50	59776	59777	59778	59779	59780	59781
3/4	3/4	3 1/4	5	59546	\$193.00	59782	59783	59784	59785	59786	59787
3/4	3/4	4	6	59548	\$314.00	59788	59789	59790	59791	59792	59793
1	1	1 1/4	3	59550	\$189.00	59794	59795	59796	59797	59798	59799
1	1	2	5	59552	\$259.00	59800	59801	59802	59803	59804	59805
1	1	2 5/8	5	59554	\$269.50	59806	59807	59808	59809	59810	59811
1	1	3 1/4	6	59556	\$289.50	59812	59813	59814	59815	59816	59817
1	1	4 1/8	7	59558	\$443.50	59818	59819	59820	59821	59822	59823

Recommend for High Temp Alloys

Stainless Steel*Titanium*Inconel

Aggressive Machining*Rougher/Finisher



MOBIL INVENTORY**SAME DAY DELIVERY IN MOST CASES

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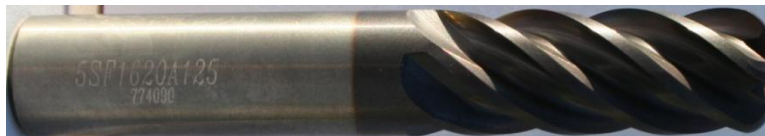
Price to add Radius

.030 -.060 \$10.00

.090 -.125 \$16.00

.156 -.187 \$20.00

.125 RADIUS



Aerospace and Defense
Approved
NAS 986 Specifications



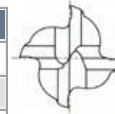


JET POWER CARBIDE ROUGHERS* TIALN COATING

HIGH PERFORMANCE CARBIDE STAINLESS STEEL TITANIUM & INCONEL | Milling Products

CARBIDE MULTI FLUTE STUB LENGTH ROUGHING / EH094 Series

MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	NO.OF FLUTE	EDP No.	Price US\$
1/4	1/4	5/16	2-1/8	3	95072	17.00
5/16	5/16	3/8	2-1/4	3	95073	24.00
3/8	3/8	9/16	2-1/2	3	95074	29.00
1/2	1/2	5/8	3	4	95075	46.00
5/8	5/8	7/8	3-1/4	4	95076	81.00
3/4	3/4	1	3-3/4	4	95077	116.00
1	1	1	4	5	95078	179.00



O.D RANGE	1/4~3/8	1/2~5/8	3/4~1
TOLERANCE	0 ~ -.0022	0 ~ -.0027	0 ~ -.0033

30 DEGREE HELIX

REGULAR LENGTH / EH095 Series

MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	NO.OF FLUTE	EDP No.	Price US\$
1/4	1/4	3/4	2-1/2	3	95079	24.00
5/16	5/16	3/4	2-1/2	3	95080	31.50
3/8	3/8	7/8	2-1/2	3	95081	37.50
1/2	1/2	1	3	4	95082	58.00
5/8	5/8	1-1/4	3-1/2	4	95083	103.00
3/4	3/4	1-5/8	4	4	95084	129.00
1	1	1-3/4	4	5	95085	204.00



O.D RANGE	1/4~3/8	1/2~5/8	3/4~1
TOLERANCE	0 ~ -.0022	0 ~ -.0027	0 ~ -.0033

CARBIDE MULTI FLUTE 45 HELIX REGULAR LENGTH ROUGHING

MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH	NO.OF FLUTE	EDP No.	Price US\$
3/16	1/4	1/2	2-1/4	3	95107	21.00
1/4	1/4	3/4	2-1/2	4	95108	21.00
5/16	5/16	3/4	2-1/2	4	95109	28.50
3/8	3/8	7/8	2-1/2	4	95110	36.00
1/2	1/2	1	3	4	95111	58.00
5/8	5/8	1-1/4	3-1/2	5	95112	94.00
3/4	3/4	1-5/8	4	6	95113	136.00
1	1	1-3/4	4	6	95114	209.00



SIZE RANGE	3/16~3/8	1/2~5/8	3/4~1
O.D TOLERANCE	0 ~ -.0022	0 ~ -.0027	0 ~ -.0033

45 DEGREE HELIX

EXTENDED NECK LONG REACH / EH970 Series

MILL DIAMETER d1	SHANK DIAMETER d2	LENGTH OF CUT l1	LENGTH BELOW SHANK l2	OVERALL LENGTH	NECK DIAMETER d3	NO.OF FLUTE	EDP No.	Price US\$
1/4	1/4	1/2	7/8	2-1/2	.230	4	95101	23.50
5/16	5/16	3/4	1	2-1/2	.292	4	95102	33.00
3/8	3/8	3/4	1-1/4	2-1/2	.355	4	95103	39.50
1/2	1/2	7/8	1-1/2	3	.480	4	95104	65.00
5/8	5/8	1	2	4	.605	5	95105	105.00
3/4	3/4	1-1/4	2-3/8	4-3/8	.719	6	95106	162.00



SIZE RANGE	1/4~3/8	1/2~5/8	3/4~1
O.D TOLERANCE	0 ~ -.0022	0 ~ -.0027	0 ~ -.0033

2012

****MOBIL INVENTORY ** ADD ANY RADIUS****

SAME DAY DELIVERY IN MOST CASES

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CARBIDE 2 & 4 FLUTE REGULAR LENGTH

SIZE				Uncoated		TIALN COATED
DIA.	SHANK DIA	LOC	OAL	2 FLUTE / 4 FLUTE EDP#		
1/32	1/8	5/64	1-1/2	01552 I N/A	\$5.00	\$7.00 TF
3/64	1/8	7/64	1-1/2	01553 I N/A	\$5.00	\$7.00 TF
1/16	1/8	3/16	1-1/2	01554 I 07554	\$5.00	\$7.00 TF
5/64	1/8	3/16	1-1/2	01555 I 07555	\$5.00	\$7.00 TF
3/32	1/8	3/8	1-1/2	01556 I 07556	\$5.00	\$7.00 TF
7/64	1/8	3/8	1-1/2	01557 I 07557	\$5.00	\$7.00 TF
1/8	1/8	1/2	1-1/2	01558 I 07558	\$5.00	\$7.00 TF
9/64	3/16	1/2	2	01560 I 07560	\$7.00	\$8.50 TF
5/32	3/16	9/16	2	01562 I 07561	\$7.00	\$9.50 TF
11/64	3/16	5/8	2	01564 I 07564	\$7.00	\$9.50 TF
3/16	3/16	5/8	2	01565 I 07565	\$7.00	\$9.50 TF
13/64	1/4	5/8	2-1/2	01569 I 07569	\$9.00	\$12.00 TF
7/32	1/4	5/8	2-1/2	01570 I 07570	\$9.00	\$12.00 TF
15/64	1/4	3/4	2-1/2	01572 I 07572	\$9.00	\$12.00 TF
1/4	1/4	3/4	2-1/2	01573 I 07573	\$8.00	\$12.00 TF
5/16	5/16	13/16	2-1/2	01579 I 07579	\$10.50	\$18.00 TF
3/8	3/8	1	2-1/2	01584 I 07584	\$14.00	\$20.00 TF
7/16	7/16	1	2-3/4	01588 I 07588	\$19.00	\$26.00 TF
1/2	1/2	1	3	01593 I 07593	\$23.00	\$29.50 TF
5/8	5/8	1-1/4	3-1/2	01595 I 07595	\$44.00	\$53.00 TF
3/4	3/4	1-1/2	4	01598 I 07598	\$65.00	\$75.00 TF
1	1	1-1/2	4	01600 I 07600	\$115.00	\$128.00TF

2012

**NOTE TO ORDER TIALN COATING ADD TF AFTER EDP#

Example 07573TF = \$11.50

TO ORDER CALL 888-857-6835



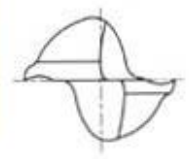
**These are designed for slotting, drilling, pocketing and g operation.

**Suitable for cutting hardened & high alloy steels, steel casting, malleable cast iron, CrNi-steels, brass, Copper, aluminum with a high % of silicon and abrasive plastics.

36



HELIX



1/2 G

4 FLUTE REGULAR LENGTH CARBIDE*CORNER RADIUS

SIZE							
RADIUS	MILL DIA.	SHANK DIA.	LOC	OAL	EDP No.	Uncoated	TiAlN Coated TF
R.015	1/8	1/8	1/2	1-1/2	07558-015R	\$10.00	\$12.00 TF
R.030	1/8	1/8	1/2	1-1/2	07558-030R	\$10.00	\$12.00 TF
R.015	3/16	3/16	5/8	2	07565-015R	\$12.00	\$15.00 TF
R.030	3/16	3/16	5/8	2	07565-030R	\$12.00	\$15.00 TF
R.015	1/4	1/4	3/4	2-1/2	07573-015R	\$14.00	\$18.00 TF
R.030	1/4	1/4	3/4	2-1/2	07573-030R	\$14.00	\$18.00 TF
R.045	1/4	1/4	3/4	2-1/2	07573-045R	\$14.00	\$18.00 TF
R.015	5/16	5/16	13/16	2-1/2	07579-015R	\$16.00	\$24.00 TF
R.030	5/16	5/16	13/16	2-1/2	07579-030R	\$16.00	\$24.00 TF
R.045	5/16	5/16	13/16	2-1/2	07579-045R	\$16.00	\$24.00 TF
R.015	3/8	3/8	1	2-1/2	07584-015R	\$20.00	\$28.00 TF
R.030	3/8	3/8	1	2-1/2	07584-030R	\$20.00	\$28.00 TF
R.045	3/8	3/8	1	2-1/2	07584-045R	\$20.00	\$28.00 TF
R.060	3/8	3/8	1	2-1/2	07584-060R	\$20.00	\$28.00 TF
R.030	7/16	7/16	1	2-3/4	07588-030R	Coated only	\$41.00 TF
R.060	7/16	7/16	1	2-3/4	07588-060R	Coated only	\$41.00 TF
R.015	1/2	1/2	1	3	07593-015R	\$34.00	\$45.00 TF
R.030	1/2	1/2	1	3	07593-030R	\$34.00	\$45.00 TF
R.045	1/2	1/2	1	3	07593-045R	\$34.00	\$45.00 TF
R.060	1/2	1/2	1	3	07593-060R	\$34.00	\$45.00 TF
R.090	1/2	1/2	1	3	07593-090R	\$34.00	\$45.00 TF
R.125	1/2	1/2	1	3	07593-125R	\$34.00	\$45.00 TF
R.015	5/8	5/8	1-1/4	3-1/2	07595-015R	\$56.00	\$72.00 TF
R.030	5/8	5/8	1-1/4	3-1/2	07595-030R	\$56.00	\$72.00 TF
R.045	5/8	5/8	1-1/4	3-1/2	07595-045R	\$56.00	\$72.00 TF
R.060	5/8	5/8	1-1/4	3-1/2	07595-060R	\$56.00	\$72.00 TF
R.090	5/8	5/8	1-1/4	3-1/2	07595-090R	\$56.00	\$72.00 TF
R.125	5/8	5/8	1-1/4	3-1/2	07595-125R	\$56.00	\$72.00 TF
R.015	3/4	3/4	1-1/2	4	07598-015R	\$70.00	\$95.00 TF
R.030	3/4	3/4	1-1/2	4	07598-030R	\$76.00	\$95.00 TF
R.045	3/4	3/4	1-1/2	4	07598-045R	\$76.00	\$95.00 TF
R.060	3/4	3/4	1-1/2	4	07598-060R	\$76.00	\$95.00 TF
R.090	3/4	3/4	1-1/2	4	07598-090R	\$76.00	\$95.00 TF
R.125	3/4	3/4	1-1/2	4	07598-125R	\$76.00	\$95.00 TF
R.015	1	1	1-1/2	4	07600-015R	\$131.00	\$153.00 TF
R.030	1	1	1-1/2	4	07600-030R	\$131.00	\$153.00 TF
R.045	1	1	1-1/2	4	07600-045R	\$131.00	\$153.00 TF
R.060	1	1	1-1/2	4	07600-060R	\$131.00	\$153.00 TF
R.090	1	1	1-1/2	4	07600-090R	\$131.00	\$153.00 TF
R.125	1	1	1-1/2	4	07600-125R	\$131.00	\$153.00 TF

****Corner Radius****



30° HELIX

NOTE: Add TF after EDP# for coating

Example 07573TF = \$18.00

37



To Order call 888-857-6835
or Fax to 714-891-0296

2 & 4 FLUTE, STUB LENGTH



SIZE				2 FLUTE/ 4 FLUTE EDP#	Uncoated	Tialn Coated
MILL DIA.	SHANK DIA.	LOC	OAL			
1/16	1/8	1/8	1-1/2	30554 I 31554	\$5.00	\$7.00 TF
3/32	1/8	3/16	1-1/2	30556 I 31556	\$5.00	\$7.00 TF
1/8	1/8	1/4	1-1/2	30558 I 31558	\$5.00	\$7.00 TF
5/32	3/16	5/16	2	30561 I 31561	\$7.50	\$10.00 TF
3/16	3/16	3/8	2	30565 I 31565	\$7.50	\$10.00TF
7/32	1/4	7/16	2	30570 I 31570	\$9.50	\$13.00 TF
1/4	1/4	1/2	2	30573 I 31573	\$9.50	\$13.00 TF
5/16	5/16	1/2	2	30579 I 31579	\$11.50	\$16.00 TF
3/8	3/8	5/8	2	30584 I 31584	\$15.50	\$19.50 TF
7/16	7/16	5/8	2-1/2	30588 I 31588	\$21.00	\$29.00 TF
1/2	1/2	5/8	2-1/2	30593 I 31593	\$25.00	\$31.00 TF
5/8	5/8	3/4	3	30595 I 31595	\$48.00	\$57.00 TF
3/4	3/4	1	3	30598 I 31598	\$70.00	\$81.00 TF



2 & 4 FLUTE DOUBLE END STUB

SIZE				2 FL EDP No.	4 FL EDP No.	UNCOATED PRICE	COATED PRICE **TF
DIA	SHANK DIA	LOC	AOL				
1/32	1/8	1/16	1-1/2	32552	N/A	\$8.50	\$11.50
3/64	1/8	3/32	1-1/2	32553	N/A	\$8.50	\$12.50
1/16	1/8	1/8	1-1/2	32554	33554	\$8.50	\$12.50
5/64	1/8	1/8	1-1/2	32555	33555	\$8.50	\$12.50
3/32	1/8	3/16	1-1/2	32556	33556	\$8.50	\$12.50
7/64	1/8	3/16	1-1/2	32557	33557	\$8.50	\$12.50
1/8	1/8	1/4	1-1/2	32558	33558	\$8.50	\$12.50
9/64	3/16	5/16	2	32560	33560	\$12.50	\$14.50
5/32	3/16	5/16	2	32562	33561	\$12.50	\$14.50
11/64	3/16	5/16	2	32564	33564	\$12.50	\$14.50
3/16	3/16	3/8	2	32565	33565	\$12.50	\$14.50
13/64	1/4	1/2	2-1/2	32569	33569	\$13.50	\$19.50
7/32	1/4	1/2	2-1/2	32570	33570	\$13.50	\$19.50
15/64	1/4	1/2	2-1/2	32572	33572	\$13.50	\$19.50
1/4	1/4	1/2	2-1/2	32573	33573	\$13.50	\$19.50
5/16	5/16	1/2	2-1/2	32579	33579	\$16.50	\$30.50
3/8	3/8	9/16	2-1/2	32584	33584	\$20.00	\$33.50
7/16	7/16	9/16	2-3/4	32588	33588	\$28.00	\$48.50
1/2	1/2	5/8	3	32593	33593	\$31.50	\$51.50

**TO ADD COATING ADD TF TO END OF PART NUMBER EX: 1/2 X 4 FL W/ COATING 33593TF

2012 38

CARBIDE 30° HELIX

To Order call 888-857-6835

or Fax to 714-891-0296





2 & 4 FLUTE, LONG LENGTH

SIZE				2 FLUTE/4 FLUTE EDP#	UNCOATED	TIALN COATED
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH			
1/8	1/8	3/4	2-1/4	02558 I 08558	\$8.00	\$10.00 TF
3/16	3/16	3/4	2-1/2	02565 I 08565	\$9.50	\$13.00 TF
1/4	1/4	1-1/8	3	02573 I 08573	\$11.50	\$16.00 TF
5/16	5/16	1-1/8	3	02579 I 08579	\$16.00	\$23.00 TF
3/8	3/8	1-1/8	3	02584 I 08584	\$20.50	\$27.00 TF
7/16	7/16	2	4	02588 I 08588	\$32.00	\$44.00 TF
1/2	1/2	2	4	02593 I 08593	\$33.00	\$46.00 TF
5/8	5/8	2-1/4	5	02595 I 08595	\$69.00	\$84.00 TF
3/4	3/4	2-1/4	5	02598 I 08598	\$86.00	\$108.00 TF
1	1	2-1/4	5	02600 I 08600	\$172.00	\$207.00 TF

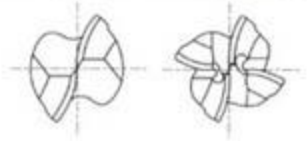
CARBIDE 30° HELIX 2 & 4 FLUTE, EXTRA LONG LENGTH



SIZE				2 FLUTE/ 4 FLUTE EDP#	UNCOATED	TIALN COATED
MILL DIA.	SHANK DIA.	LOC	OAL			
1/8	1/8	1	3	54558 I 55558	\$11.50	\$13.00 TF
3/16	3/16	1-1/8	3	54565 I 55565	\$12.50	\$15.00 TF
3/16	3/16	1	4	54904 I 55904	\$13.00	\$17.00 TF
1/4	1/4	1-1/2	4	54573 I 55573	\$17.00	\$23.00 TF
1/4	1/4	1-1/2	6	54901 I 55901	\$23.00	\$29.00 TF
5/16	5/16	1-5/8	4	54579 I 55579	\$22.00	\$32.00 TF
3/8	3/8	1-3/4	4	54584 I 55584	\$25.00	\$33.00 TF
3/8	3/8	1-1/2	6	54902 I 55902	\$36.00	\$46.00 TF
7/16	7/16	3	6	54588 I 55588	\$47.00	\$60.00 TF
1/2	1/2	1-1/2	6	54903 I 55903	\$58.00	\$69.00 TF
1/2	1/2	3	6	54593 I 55593	\$61.00	\$71.00 TF
5/8	5/8	3	6	54595 I 55595	\$85.00	\$99.00 TF
3/4	3/4	3	6	54598 I 55598	\$131.00	\$149.00 TF
1	1	3	6	54600 I 55600	\$221.00	\$242.00 TF

2012





2 FLUTE, REGULAR LENGTH BALL 30° Helix Carbide

SIZE				2 FLUTE EDP#	UNCOATED	TIALN COATED
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH			
1/8	1/8	1/2	1-1/2	41558	\$6.50	\$8.00 TF
5/32	3/16	9/16	2	41561	\$9.00	\$11.00 TF
3/16	3/16	5/8	2	41565	\$9.00	\$11.50 TF
7/32	1/4	5/8	2-1/2	41570	\$11.00	\$16.00 TF
1/4	1/4	3/4	2-1/2	41573	\$12.50	\$16.00 TF
5/16	5/16	13/16	2-1/2	41579	\$13.00	\$20.00 TF
3/8	3/8	1	2-1/2	41584	\$17.00	\$23.00 TF
7/16	7/16	1	2-3/4	41588	\$24.00	\$32.00 TF
1/2	1/2	1	3	41593	\$28.00	\$36.50 TF
5/8	5/8	1-1/4	3-1/2	41595	\$54.00	\$67.00 TF
3/4	3/4	1-1/2	4	41598	\$79.00	\$95.00 TF
1	1	1-1/2	4	41600	\$139.00	\$164.00 TF

4 FLUTE, REGULAR LENGTH BALL 30° Helix Carbide

SIZE				4 FLUTE EDP #	UNCOATED	TIALN COATED
MILL DIAMETER	SHANK DIAMETER	LENGTH OF CUT	OVERALL LENGTH			
1/8	1/8	1/2	1-1/2	43558	\$7.50	\$9.50 TF
5/32	3/16	9/16	2	43561	\$10.50	\$13.00 TF
3/16	3/16	5/8	2	43565	\$11.00	\$13.50 TF
7/32	1/4	5/8	2-1/2	43570	\$13.00	\$18.00 TF
1/4	1/4	3/4	2-1/2	43573	\$14.00	\$19.00 TF
5/16	5/16	13/16	2-1/2	43579	\$16.00	\$23.00 TF
3/8	3/8	1	2-1/2	43584	\$19.00	\$27.00 TF
7/16	7/16	1	2-3/4	43588	\$29.00	\$37.00 TF
1/2	1/2	1	3	43593	\$34.00	\$43.00 TF
5/8	5/8	1-1/4	3-1/2	43595	\$65.00	\$77.00 TF
3/4	3/4	1-1/2	4	43598	\$95.00	\$112.00TF
1	1	1-1/2	4	43600	\$169.00	\$189.00 TF

2012

40



30° Helix Carbide 2 & 4 FLUTE, LONG LENGTH BALL



SIZE				2 FLUTE/4 FLUTE EDP#S	UNCOATED	TIALN COATED
MILL DIA.	SHANK DIA.	LOC	OAL			
1/8	1/8	3/4	2-1/4	50558 I 51558	\$10.00	\$11.50 TF
3/16	3/16	3/4	2-1/2	50565 I 51565	\$14.50	\$17.00 TF
1/4	1/4	1-1/8	3	50573 I 51573	\$17.50	\$21.50 TF
5/16	5/16	1-1/8	3	50579 I 51579	\$22.00	\$28.00 TF
3/8	3/8	1-1/8	3	50584 I 51584	\$27.50	\$33.00 TF
7/16	7/16	2	4	50588 I 51588	\$41.50	\$51.00 TF
1/2	1/2	2	4	50593 I 51593	\$49.00	\$58.00 TF
5/8	5/8	2-1/4	5	50595 I 51595	\$102.00	\$113.00 TF
3/4	3/4	2-1/4	5	50598 I 51598	\$136.00	\$149.00 TF
1	1	2-1/4	5	50600 I 51600	\$251.00	\$269.00 TF

30° Helix Carbide 2 & 4 FLUTE, EXTRA LONG LENGTH BALL

SIZE				2 FLUTE / 4 FLUTE EDP#	UNCOATED	TIALN COATED
MILL DIA.	SHANK DIA.	LOC	OAL			
1/8	1/8	1	3	52558 I 53558	\$13.50	\$15.00 TF
3/16	3/16	1-1/8	3	52565 I 53565	\$16.50	\$19.50 TF
3/16	3/16	1	4	52904 I n/a	\$17.00	\$20.50 TF
1/4	1/4	1-1/2	4	52573 I 53573	\$22.50	\$27.00 TF
1/4	1/4	1-1/2	6	52901 I 53901	\$29.00	\$35.00 TF
5/16	5/16	1-5/8	4	52579 I 53579	\$29.50	\$37.00 TF
3/8	3/8	1-3/4	4	52584 I 53584	\$30.50	\$37.50 TF
3/8	3/8	1-1/2	6	52902 I 53902	\$41.00	\$51.00 TF
7/16	7/16	3	6	52588 I 53588	\$60.00	\$73.00 TF
1/2	1/2	1-1/2	6	52903 I 53903	\$65.00	\$77.00 TF
1/2	1/2	3	6	52593 I 53593	\$67.00	\$80.00 TF
5/8	5/8	3	6	52595 I 53595	\$104.00	\$117.00 TF
5/8	5/8	1 1/2	6	I 53904	\$100.00	\$115.00 TF
3/4	3/4	3	6	52598 I 53598	\$155.00	\$169.00 TF
3/4	3/4	1 1/2	6	I 53905	\$149.00	\$169.00 TF
1	1	3	6	52600 I 53600	\$263.00	\$287.00 TF
1	1	1 1/2	6	I 53906	\$263.00	\$288.00 TF

2012

41

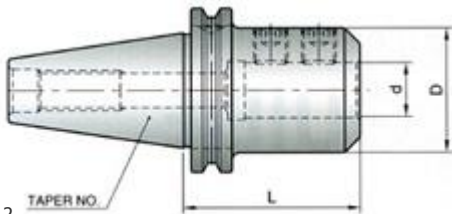


CAT 40 STUB END MILL HOLDER

EDP No.	Type	Taper No.	d	L	D	Price
AK206	CAT 40-EMH1/2-1.75	40	.500	1.75	1.25	54.00
AK208	CAT 40-EMH5/8-1.75	40	.625	1.75	1.50	54.00
AK210	CAT 40-EMH3/4-1.75	40	.750	1.75	1.75	58.00
AK214	CAT 40-EMH1"-1.75	40	1.000	1.75	1.75	56.00
AK217	CAT 40-EMH1 1/4-2.00	40	1.250	2.00	2.25	64.00

CAT 40 AND 50 STANDARD END MILL HOLDER

EDP No.	Type	Taper No.	d	L	D	List Price
AK000	CAT 40-EMH1/8-2.50	40	0.125	2.5	0.69	64.00
AK001	CAT 40-EMH3/16-2.50	40	0.187	2.5	0.69	64.00
AK002	CAT 40-EMH1/4-2.50	40	0.25	2.5	0.78	58.00
AK003	CAT 40-EMH5/16-2.50	40	0.312	2.5	0.88	58.00
AK004	CAT 40-EMH3/8-2.50	40	0.375	2.5	1	58.00
AK005	CAT 40-EMH7/16-2.50	40	0.437	2.5	1.13	58.00
AK006	CAT 40-EMH1/2-2.63	40	0.5	2.63	1.25	54.00
AK008	CAT 40-EMH5/8-3.75	40	0.625	3.75	1.5	54.00
AK010	CAT 40-EMH3/4-3.75	40	0.75	3.75	1.75	58.00
AK012	CAT 40-EMH7/8-4.00	40	0.875	4	1.88	54.00
AK014	CAT 40-EMH 1"-4.00	40	1	4	2	56.00
AK017	CAT 40-EMH1*1/4-4.25	40	1.25	4.25	2.5	64.00
AK021	CAT 40-EMH1*1/2-4.63	40	1.5	4.63	2.5	82.00
AL002	CAT 50-EMH1/4-2.50	50	0.25	2.5	0.78	89.00
AL003	CAT 50-EMH5/16-2.50	50	0.312	2.5	0.88	89.00
AL004	CAT 50-EMH3/8-2.50	50	0.375	2.5	1	89.00
AL005	CAT 50-EMH7/16-2.63	50	0.437	2.63	1.13	89.00
AL006	CAT 50-EMH1/2-2.63	50	0.5	2.63	1.25	89.00
AL008	CAT 50-EMH5/8-3.75	50	0.625	3.75	1.5	89.00
AL010	CAT 50-EMH3/4-3.75	50	0.75	3.75	1.75	89.00
AL012	CAT 50-EMH7/8-3.75	50	0.875	3.75	1.88	89.00
AL014	CAT 50-EMH 1"-4.00	50	1	4	2	89.00
AL017	CAT 50-EMH1*1/4-4.00	50	1.25	4	2.5	97.00
AL021	CAT 50-EMH1*1/2-4.00	50	1.5	4	2.5	97.00
AL029	CAT 50-EMH 2"-5.63	50	2	5.63	3.75	115.00

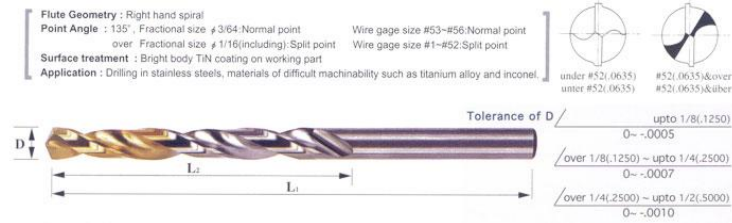


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CAT 40 AND 50 EXTENDED LENGTH END MILL HOLDER

EDP No.	Type	Taper No.	d	L	D	List Price
AK104	CAT 40-EMH3/8-4.50	40	0.375	4.5	1	64.00
AK106	CAT 40-EMH1/2-4.63	40	0.5	4.63	1.25	61.00
AK108	CAT 40-EMH5/8-5.75	40	0.625	5.75	1.5	61.00
AK110	CAT 40-EMH3/4-5.75	40	0.75	5.75	1.75	64.00
AK112	CAT 40-EMH7/8-6.00	40	0.875	6	1.88	64.00
AK114	CAT 40-EMH 1"-6.00	40	1	6	2	64.00
AK117	CAT 40-EMH1*1/4-6.25	40	1.25	6.25	2.5	71.00
AK121	CAT 40-EMH1*1/2-6.63	40	1.5	6.63	2.5	90.00
AL104	CAT 50-EMH3/8-4.50	50	0.375	4.5	1	99.00
AL106	CAT 50-EMH1/2-4.63	50	0.5	4.63	1.25	99.00
AL108	CAT 50-EMH5/8-5.75	50	0.625	5.75	1.5	99.00
AL110	CAT 50-EMH3/4-5.75	50	0.75	5.75	1.75	99.00
AL112	CAT 50-EMH7/8-5.75	50	0.875	5.75	1.88	99.00
AL114	CAT 50-EMH 1"-6.00	50	1	6	2	99.00
AL117	CAT 50-EMH1*1/4-6.00	50	1.25	6	2.5	111.00
AL121	CAT 50-EMH1*1/2-6.00	50	1.5	6	2.5	111.00
AL129	CAT 50-EMH 2"-7.63	50	2	7.63	3.75	126.00

HSS-Co8% Straight shank Jobber length - FRACTIONAL AND LETTERS



888-837-6835

Fractional Size / HSS-Co8% Gold-P Coated (ANSI)

OD h8	Decimal Equivalent	LOC	OAL	EDP NO.	Price
3/64	0.04688	3/4	1 3/4	D2GP185003	\$.85
1/16	0.06250	7/8	1 7/8	D2GP185004	\$.85
5/64	0.07813	1	2	D2GP185005	\$.85
3/32	0.09375	1 1/4	2 1/4	D2GP185006	\$.85
7/64	0.10938	1 1/2	2 5/8	D2GP185007	\$.95
1/8	0.12500	1 5/8	2 3/4	D2GP185008	\$1.25
9/64	0.14063	1 3/4	2 7/8	D2GP185009	\$1.25
5/32	0.15625	2	3 1/8	D2GP185010	\$1.20
11/64	0.17188	2 1/8	3 1/4	D2GP185011	\$1.35
3/16	0.18750	2 5/16	3 1/2	D2GP185012	\$1.45
13/64	0.20313	2 7/16	3 5/8	D2GP185013	\$1.75
7/32	0.21875	2 1/2	3 3/4	D2GP185014	\$1.85
15/64	0.23438	2 5/8	3 7/8	D2GP185015	\$2.05
1/4	0.25000	2 3/4	4	D2GP185016	\$2.25
17/64	0.26563	2 7/8	4 1/8	D2GP185017	\$2.40
9/32	0.28125	2 15/16	4 1/4	D2GP185018	\$2.60
19/64	0.29688	3 1/16	4 3/8	D2GP185019	\$2.95
5/16	0.31250	3 3/16	4 1/2	D2GP185020	\$3.25
21/64	0.32813	3 5/16	4 5/8	D2GP185021	\$3.65
11/32	0.34375	3 7/16	4 3/4	D2GP185022	\$3.85
23/64	0.35938	3 1/2	4 7/8	D2GP185023	\$4.35
3/8	0.37500	3 5/8	5	D2GP185024	\$4.35
25/64	0.39063	3 3/4	5 1/8	D2GP185025	\$4.80
13/32	0.40625	3 7/8	5 1/4	D2GP185026	\$5.10
27/64	0.42188	3 15/16	5 3/8	D2GP185027	\$5.55
7/16	0.43750	4 1/16	5 1/2	D2GP185028	\$5.85
29/64	0.45313	4 3/16	5 5/8	D2GP185029	\$6.95
15/32	0.46875	4 5/16	5 3/4	D2GP185030	\$6.85
31/64	0.48438	4 3/8	5 7/8	D2GP185031	\$7.45
1/2	0.50000	4 1/2	6	D2GP185032	\$7.45

Letter Size / HSS-Co8% Gold-P Coated (ANSI)

2012

SIZE	OD h8	LOC	OAL	EDP NO.	Price
A	.2340	2 5/8	3 7/8	D2GP186101	\$2.15
B	.2380	2 3/4	4	D2GP186102	\$2.40
C	.2420	2 3/4	4	D2GP186103	\$2.40
D	.2460	2 3/4	4	D2GP186104	\$2.60
E	.2500	2 3/4	4	D2GP186105	\$2.45
F	.2570	2 7/8	4 1/8	D2GP186106	\$2.60
G	.2610	2 7/8	4 1/8	D2GP186107	\$2.45
H	.2660	2 7/8	4 1/8	D2GP186108	\$2.60
I	.2720	2 7/8	4 1/8	D2GP186109	\$2.70
J	.2770	2 7/8	4 1/8	D2GP186110	\$2.70
K	.2810	2 15/16	4 1/4	D2GP186111	\$2.70
L	.2900	2 15/16	4 1/4	D2GP186112	\$3.05
M	.2950	3 1/16	4 3/8	D2GP186113	\$3.10
N	.3020	3 1/16	4 3/8	D2GP186114	\$3.10
O	.3160	3 3/16	4 1/2	D2GP186115	\$3.55
P	.3230	3 5/16	4 5/8	D2GP186116	\$3.60
Q	.3320	3 7/16	4 3/4	D2GP186117	\$3.85
R	.3390	3 7/16	4 3/4	D2GP186118	\$3.85
S	.3480	3 1/2	4 7/8	D2GP186119	\$4.60
T	.3580	3 1/2	4 7/8	D2GP186120	\$4.70
U	.3680	3 5/8	5	D2GP186121	\$4.70
V	.3770	3 5/8	5	D2GP185032	\$7.55
W	.3860	3 3/4	5 1/8	D2GP186123	\$7.55
X	.3970	3 3/4	5 1/8	D2GP186124	\$5.10
Y	.4040	3 7/8	5 1/4	D2GP186125	\$5.35
Z	.4130	3 7/8	5 1/4	D2GP186126	\$5.85

AEROSPACE AND DEFENSE



888-857-6835

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