

**PREMIUM (10% COBALT) MICROGRAIN CARBIDE
SOLID CARBIDE 3 FLUTE (TAPERED) END MILLS**

ICS USA

SPECIAL PURPOSE

NON-CENTER CUTTING

Solid Carbide Tapered End Mills are designed with a constant spiral to prevent chatter during use and to resist side thrusts and deflection. They are used primarily for milling die and mold cavities and are sometimes referred to as Taper Degree End Mills or Tapered Milling Cutters.

3 FLUTE - SINGLE END

3 FLUTE SINGLE END (BALL NOSE)



RIGHT HAND CUTTING



SHANK DIA.	TAPER ANGLE	FLUTE RADIUS	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
					SOLID CARBIDE	TIN COATED
					SCTEM	SCTEMT
1/4	1°	1/8	1-1/2	3	\$56.62	\$60.20
	1-1/2°	1/8	1-1/2	3	50.90	54.48
	2°	1/8	1-1/4	3	56.62	60.20
	3°	1/8	1	3	50.90	54.48
	5°	1/8	3/4	3	50.90	54.48
	7°	1/8	1/2	3	50.90	54.48
	10°	3/32	1/2	3	56.62	60.20
3/8	1°	3/16	1-3/4	3-1/2	77.76	83.36
	1-1/2°	3/16	1-3/4	3-1/2	77.76	83.36
	2°	3/16	1-3/4	3-1/2	77.76	83.36
	3°	5/32	1-3/4	3-1/2	77.76	83.36
	5°	1/8	1-1/2	3-1/2	77.76	83.36
	7°	1/8	1	3-1/2	77.76	83.36
	10°	1/8	3/4	3-1/2	77.76	83.36
1/2	1°	1/4	2	4	118.14	127.22
	2°	1/4	2	4	118.14	127.22
	3°	1/4	2	4	118.14	127.22
	5°	1/4	1-1/4	4	118.14	127.22
	7°	3/16	1-1/4	4	118.14	127.22
	10°	1/8	1	4	118.14	127.22

SHANK DIA.	TAPER ANGLE	FLUTE RADIUS	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
					SOLID CARBIDE	TIN COATED
					SCTEMB	SCTEMBT
1/4	1°	.062	1-1/2	3	\$ 62.90	\$ 66.50
	1-1/2°	.062	1-1/2	3	56.54	60.14
	2°	.062	1-1/4	3	60.20	66.50
	3°	.062	1	3	56.40	60.14
	5°	.062	3/4	3	56.40	60.14
	7°	.062	1/2	3	56.40	60.14
	10°	.047	1/2	3	62.90	66.50
3/8	1°	.093	1-3/4	3-1/2	86.42	92.02
	1-1/2°	.093	1-3/4	3-1/2	86.42	92.02
	2°	.093	1-3/4	3-1/2	86.42	92.02
	3°	.078	1-3/4	3-1/2	86.42	92.02
	5°	.062	1-1/2	3-1/2	86.42	92.02
	7°	.062	1	3-1/2	86.42	92.02
	10°	.062	3/4	3-1/2	86.42	92.02
1/2	1°	.125	2	4	131.28	140.34
	2°	.125	2	4	131.28	140.34
	3°	.125	2	4	131.28	140.34
	5°	.125	1-1/4	4	131.28	140.34
	7°	.093	1-1/4	4	131.28	140.34
	10°	.062	1	4	131.28	140.34

TOLERANCES
Flute Dia.: - .001 - .002"
Shank Dia.: - .0001 - .0004"

**PREMIUM (10% COBALT) MICROGRAIN
SOLID CARBIDE 14° DIE SINKING CUTTERS**

ICS USA

SPECIAL PURPOSE

CENTER CUTTING

TWO STRAIGHT FLUTES



RIGHT HAND CUT

Solid Carbide 14° Die Sinking Cutters are designed for milling or "sinking" die and mold cavities. They have a ball nose and can be used for milling tough work hardening metals.

SIZE	SHANK DIA.	NOSE RADIUS	OVERALL LENGTH	PRICE EACH	
				SOLID CARBIDE	TIN COATED
				SCDSC	SCDSCT
1/8	1/8	.030	1-1/2	\$35.54	\$37.78
5/32	5/32	.040	2	47.60	49.84
3/16	3/16	.046	2	51.88	54.12
1/4	1/4	.062	2-1/2	62.12	66.04

SIZE	SHANK DIA.	NOSE RADIUS	OVERALL LENGTH	PRICE EACH	
				SOLID CARBIDE	TIN COATED
				SCDSC	SCDSCT
5/16	5/16	.078	2-1/2	\$74.78	\$77.24
3/8	3/8	.093	2-1/2	86.76	91.46
7/16	7/16	.109	2-3/4	118.14	126.54
1/2	1/2	.125	3	144.02	152.42

TOLERANCES
Radius: + .0005 - .001"
Shank Dia.: - .0001 - .0004"