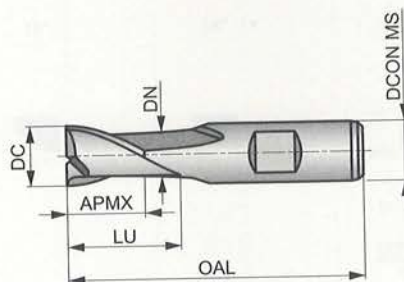


C110

2-Flute HSS-E-PM Slot End Mill, Bright Finish

Extra short cut length, 2-flute design provides high rigidity. Suitable for milling shallow slots and ramping. The accurate diameter means the tools are designed for milling standard keyway slots to a P9 tolerance. Versatile and can be used in mild steels, non-ferrous materials and medium strength titanium alloys.



HSS-E PM	N	NOF 2
	λ 30°	γ 12°
DIN 1835B	Bright	DC e8
	DIN 327D	



Workpiece material group suitability, starting values for cutting speed (m/min) and Alpha Code. Tables with feed per tooth and correction factors can be found starting from page 158

P1.1 ■ 53 E	P1.2 ■ 59 E	P1.3 ■ 61 E	P2.1 ■ 45 E	P2.2 ■ 40 E	P3.1 ■ 37 E	P3.2 ■ 30 D	P4.1 ■ 22 D	M1.1 ■ 41 E	M1.2 ■ 35 E	M2.1 ■ 37 E	M2.2 ■ 30 D	K1.1 ■ 35 E	K1.2 ■ 26 E
K1.3 ■ 19 E	K2.1 ■ 62 E	K2.2 ■ 50 E	K2.3 ■ 40 D	K3.1 ■ 54 E	K3.2 ■ 42 E	K3.3 ■ 34 D	K4.1 ■ 50 D	K4.2 ■ 38 D	K4.3 ■ 28 D	K4.4 ■ 24 C	K4.5 ■ 20 C	K5.1 ■ 57 D	K5.2 ■ 43 D
K5.3 ■ 33 D	N1.1 ■ 95 G	N1.2 ■ 71 F	N1.3 ■ 48 F	N2.1 ■ 48 E	N2.2 ■ 43 E	N2.3 ■ 31 E	N3.1 ■ 50 E	N3.2 ■ 29 E	N3.3 ■ 15 E	N4.1 ■ 50 E	S1.1 ■ 35 D	S1.2 ■ 25 D	S2.1 ■ 20 C
S3.1 ■ 15 C	S4.1 ■ 12 C												

DCON MS tolerance h6.

Product	DC	DC	DCON MS	APMX	OAL	NOF	LU	DN
	(inch)	(mm)						
C1101.0	--	1.00	6.00	2.50	47.0	2	--	--
C1101.5	--	1.50	6.00	3.00	47.0	2	--	--
C1101/16	1/16	1.59	6.00	3.00	47.0	2	--	--
C1101.8	--	1.80	6.00	4.00	48.0	2	--	--
C1102.0	--	2.00	6.00	4.00	48.0	2	--	--
C1103/32	3/32	2.38	6.00	5.00	49.0	2	--	--
C1102.5	--	2.50	6.00	5.00	49.0	2	--	--
C1102.8	--	2.80	6.00	5.00	49.0	2	--	--
C1103.0	--	3.00	6.00	5.00	49.0	2	--	--
C1101/8	1/8	3.18	6.00	6.00	50.0	2	--	--
C1103.5	--	3.50	6.00	6.00	50.0	2	--	--
C1103.8	--	3.80	6.00	7.00	51.0	2	--	--
C1104.0	--	4.00	6.00	7.00	51.0	2	--	--
C1104.5	--	4.50	6.00	7.00	51.0	2	--	--
C1103/16	3/16	4.76	6.00	8.00	52.0	2	--	--
C1104.8 ²⁾	--	4.80	6.00	8.00	52.0	2	--	--
C1105.0	--	5.00	6.00	8.00	52.0	2	--	--
C1105.5	--	5.50	6.00	8.00	52.0	2	--	--
C1105.75 ²⁾	--	5.75	6.00	8.00	52.0	2	--	--
C1106.0	--	6.00	6.00	8.00	52.0	2	--	--
C1101/4	1/4	6.35	10.00	10.00	60.0	2	--	--
C1106.5	--	6.50	10.00	10.00	60.0	2	--	--
C1107.0	--	7.00	10.00	10.00	60.0	2	--	--
C1107.5	--	7.50	10.00	10.00	60.0	2	--	--
C1107.75 ²⁾	--	7.75	10.00	11.00	61.0	2	--	--

he tools
medium

ge 194.

26 E

43 D

2.1

20 C

Product	DC	DC	D CON MS	APMX	OAL	NOF	LU	DN
	(inch)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
C1105/16	5/16	7.94	10.00	11.00	61.0	2	—	—
C1108.0	—	8.00	10.00	11.00	61.0	2	—	—
C1108.5	—	8.50	10.00	11.00	61.0	2	—	—
C1109.0	—	9.00	10.00	11.00	61.0	2	—	—
C1109.5	—	9.50	10.00	11.00	61.0	2	—	—
C1103/8	3/8	9.52	10.00	13.00	63.0	2	22.50	9.50
C11010.0	—	10.00	10.00	13.00	63.0	2	22.50	9.50
C11013/32	13/32	10.32	12.00	13.00	70.0	2	—	—
C11010.5	—	10.50	12.00	13.00	70.0	2	—	—
C11011.0	—	11.00	12.00	13.00	70.0	2	—	—
C1107/16	7/16	11.11	12.00	13.00	70.0	2	—	—
C11011.5	—	11.50	12.00	13.00	70.0	2	—	—
C11012.0	—	12.00	12.00	16.00	73.0	2	27.50	11.50
C11012.5	—	12.50	12.00	16.00	73.0	2	27.50	11.50
C1101/2	1/2	12.70	12.00	16.00	73.0	2	27.50	11.50
C11013.0	—	13.00	12.00	16.00	73.0	2	27.50	11.50
C11017/32	17/32	13.49	12.00	16.00	73.0	2	27.50	11.50
C11014.0	—	14.00	12.00	16.00	73.0	2	27.50	11.50
C1109/16	9/16	14.29	12.00	16.00	73.0	2	27.50	11.50
C11015.0	—	15.00	12.00	16.00	73.0	2	27.50	11.50
C1105/8	5/8	15.88	16.00	19.00	79.0	2	30.50	15.50
C11016.0	—	16.00	16.00	19.00	79.0	2	30.50	15.50
C11017.0	—	17.00	16.00	19.00	79.0	2	30.50	15.50
C11011/16	11/16	17.46	16.00	19.00	79.0	2	30.50	15.50
C11018.0	—	18.00	16.00	19.00	79.0	2	30.50	15.50
C11019.0	—	19.00	16.00	19.00	79.0	2	30.50	15.50
C1103/4	3/4	19.05	20.00	22.00	88.0	2	37.50	18.50
C11020.0	—	20.00	20.00	22.00	88.0	2	37.50	19.50
C11022.0	—	22.00	20.00	22.00	88.0	2	37.50	19.50
C1107/8	7/8	22.22	20.00	22.00	88.0	2	37.50	19.50
C11024.0	—	24.00	25.00	26.00	102.0	2	45.50	23.50
C11025.0	—	25.00	25.00	26.00	102.0	2	45.50	24.50
C1101	1"	25.40	25.00	26.00	102.0	2	45.50	24.50
C11026.0	—	26.00	25.00	26.00	102.0	2	45.50	24.50
C11028.0	—	28.00	25.00	26.00	102.0	2	45.50	24.50
C11030.0	—	30.00	25.00	26.00	102.0	2	45.50	24.50
C11032.0	—	32.00	32.00	32.00	112.0	2	51.50	31.50
C11035.0 ¹⁾	—	35.00	32.00	32.00	112.0	2	51.50	31.50
C11036.0 ¹⁾	—	36.00	32.00	32.00	112.0	2	51.50	31.50
C11040.0 ¹⁾	—	40.00	40.00	38.00	130.0	2	59.50	39.00

¹⁾DC tolerance h10; available in HSS-E only.
²⁾DC tolerance h10; slot not in P9 tolerance.