

# X70-POWER 2 刃 R 角(短刃, 細頸部)

## X70-POWER 2FLUTE, STUB CUT LENGTH, with EXTENDED NECK

**EM702 系列**

**SERIES EM702**



A26-A27

▶ 適用於切削淬火鋼(HRC50°以上)  
Designed to machine high hardened materials.  
▶ 新材質及塗層適合乾切削及高速切削

Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating.

▶ 能使加工之工件表面極幼滑

Excellent workpiece finishes.

▶ 縮小頸部可進行深加工

Deep slotting is possible by reduced neck.

▶ 優良的耐磨性

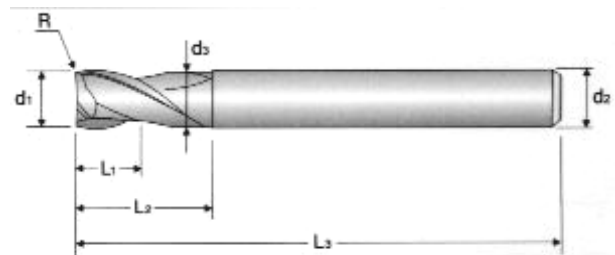
Higher wear-resistance.



Unit 單位 : mm

ITEM NO. 編號	MILL DIAMETER 刃徑( $d_1 \times R$ )	SHANK DIAMETER 柄徑( $d_2$ )(h6)	LENGTH OF CUT 刃長( $L_1$ )	OVERALL LENGTH 全長( $L_3$ )	LENGTH BELOW SHANK 頸下長( $L_2$ )	NECK DIAMETER 頸直徑( $d_3$ )
EM702-0005	0.5 X R0.05	0.5	3	0.7	-	-
EM702-0006	0.6 X R0.05	0.6	3	0.9	-	-
EM702-0008	0.8 X R0.05	0.8	3	1.2	-	-
EM702-0010	1 X R0.1	3	1.5	40	-	-
EM702-0015	1.5 X R0.1	3	2.2	40	-	-
EM702-0020	2 X R0.1	3	3	40	6	1.9
EM702-0025	2.5 X R0.1	3	4	40	6	2.4
EM702-0030	3 X R0.1	6	4	45	7	2.9
EM702-0035	3.5 X R0.1	6	5	45	9	3.3
EM702-0040	4 X R0.1	6	5	45	9	3.8
EM702-0045	4.5 X R0.1	6	6	45	10	4.3
EM702-0050	5 X R0.2	6	6	50	11	4.8
EM702-0060	6 X R0.2	6	7	50	14	5.8
EM702-0080	8 X R0.2	8	9	60	18	7.8
EM702-0100	10 X R0.2	10	12	75	25	9.7
EM702-0120	12 X R0.3	12	15	75	30	11.7
EM702-0160	16 X R0.3	16	18	90	38	15.7
EM702-0200	20 X R0.3	20	24	100	45	19.7

Mill Dia. Tolerance (mm) 刃徑公差		Shank Dia. Tolerance 柄徑公差  h6
DIA. 1~5	0 ~ 0.012	
DIA. 6~	0 ~ 0.030	



# X70-POWER 4 刃 R 角(短刃, 細頸部)

## X70-POWER 4FLUTE, STUB CUT LENGTH, with EXTENDED NECK

**EM704 系列**

**SERIES EM704**



A27

▶ 適用於切削淬火鋼(HRC50°以上)  
Designed to machine high hardened materials.  
▶ 新材質及塗層適合乾切削及高速切削

Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating.

▶ 能使加工之工件表面極幼滑  
Excellent workpiece finishes.

▶ 縮小頸部可進行深加工  
Deep slotting is possible by reduced neck.

▶ 優良的耐磨性

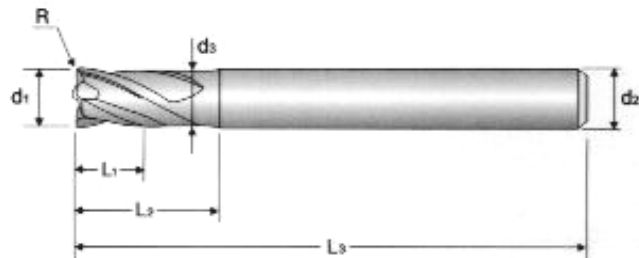
Higher wear-resistance.



Unit 單位 : mm

ITEM NO. 編號	MILL DIAMETER 刃徑( $d_1 \times R$ )	SHANK DIAMETER 柄徑( $d_2$ ) (h6)	LENGTH OF CUT 刃長( $L_1$ )	OVERALL LENGTH 全長( $L_3$ )	LENGTH BELOW SHANK 頸下長( $L_2$ )	NECK DIAMETER 頸直徑( $d_3$ )
EM704-0010	1 X R0.1	3	1.5	40	-	-
EM704-0015	1.5 X R0.1	3	2.2	40	-	-
EM704-0020	2 X R0.1	3	3	40	6	1.9
EM704-0025	2.5 X R0.1	3	4	40	6	2.4
EM704-0030	3 X R0.1	6	4	45	7	2.9
EM704-0035	3.5 X R0.1	6	5	45	9	3.3
EM704-0040	4 X R0.1	6	5	45	9	3.8
EM704-0045	4.5 X R0.1	6	6	45	10	4.3
EM704-0050	5 X R0.2	6	6	50	11	4.8
EM704-0060	6 X R0.2	6	7	50	14	5.8
EM704-0080	8 X R0.2	8	9	60	18	7.8
EM704-0100	10 X R0.2	10	12	75	25	9.7
EM704-0120	12 X R0.3	12	15	75	30	11.7
EM704-0160	16 X R0.3	16	18	90	38	15.7
EM704-0200	20 X R0.3	20	24	100	45	19.7

Mill Dia. Tolerance (mm) 刃徑公差		Shank Dia. Tolerance 柄徑公差  h6
DIA. 1~5	0 ~ 0.012	
DIA. 6~	0 ~ 0.030	



# X70-POWER 45°高螺旋 R 角(短刃, 細頸部) X70-POWER 6 FLUTE, 45° HELIX, with CORNER RADIUS

## EM706 & EM707 系列 SERIES EM706 & EM707



A27

- ▶ 適用於切削淬火鋼(HRC50°以上)  
Designed to machine high hardened materials.
- ▶ 新材質及塗層適合乾切削及高速切削  
Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating.
- ▶ 能使加工之工件表面極幼滑  
Excellent workpiece finishes.
- ▶ 縮小頸部可進行深加工  
Deep slotting is possible by reduced neck.
- ▶ 優良的耐磨性  
Higher wear-resistance.



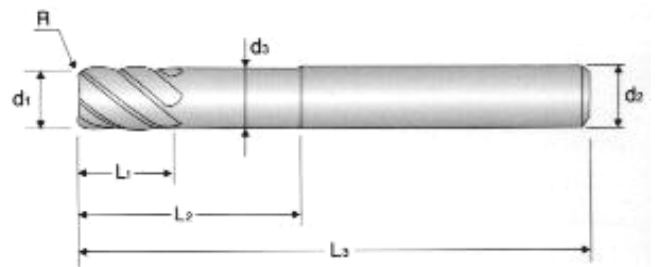
Unit 單位 : mm

ITEM NO. 編號	MILL DIAMETER 刃徑 d <sub>1</sub> (e8) x R	SHANK DIAMETER 柄徑 d <sub>2</sub> (h6)	LENGTH OF CUT 刃長 L <sub>1</sub>	OVERALL LENGTH 全長 L <sub>3</sub>	LENGTH BELOW SHANK 頸下長 L <sub>2</sub>	NECK DIAMETER 頸直徑 d <sub>3</sub>
EM706-0060	6 X R0.5	6	6	50	14	5.7
EM706-0080	8 X R0.5	8	8	60	24	7.65
EM706-0100	10 X R1	10	10	70	30	9.65
EM706-0120	12 X R1	12	12	75	30	11.6

ITEM NO. 編號	MILL DIAMETER 刃徑 d <sub>1</sub> x R	SHANK DIAMETER 柄徑 d <sub>2</sub>	LENGTH OF CUT 刃長 L <sub>1</sub>	OVERALL LENGTH 全長 L <sub>3</sub>
EM707-0605	6 X R0.5	6	13	70
EM707-0805	8 X R0.5	8	19	90
EM707-1005	10 X R0.5	10	22	100
EM707-1010	10 X R1	10	22	100
EM707-1205	12 X R0.5	12	26	110
EM707-1210	12 X R1	12	26	110
EM707-1610	16 X R1	16	32	130
EM707-1615	16 X R1.5	16	32	130
EM707-2010	20 X R1	20	38	140
EM707-2015	20 X R1.5	20	38	140
EM707-2020	20 X R2	20	38	140

### Tolerance according to DIN 7160 & 7161 公差對照 DIN 7160 和 7161 標準(德國)

Tolerance range in μm / 公差範圍 (μm)					
Nominal-Diameter in mm / 尺寸範圍 (mm)					
D	1 ~ 3	>3 ~ 6	>6 ~ 10	>10 ~ 18	>18 ~ 30
e8	-0.014	-0.020	-0.025	-0.032	-0.040
	-0.028	-0.038	-0.047	-0.059	-0.073
h6	0	0	0	0	0
	-0.006	-0.008	-0.009	-0.011	-0.013



# X70-POWER 2 刃圓咀(短刃, 細頸部)

## X70-POWER 2 FLUTE, STUB CUT LENGTH BALL NOSE, with EXTENDED NECK

**EM708 系列**

**SERIES EM708**



A28

▶ 適用於切削淬火鋼(HRC50°以上)  
Designed to machine high hardened materials.  
▶ 新材質及塗層適合乾切削及高速切削

Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating.

▶ 能使加工之工件表面極幼滑  
Excellent workpiece finishes.

▶ 縮小頸部可進行深加工  
Deep slotting is possible by reduced neck.

▶ 優良的耐磨性

Higher wear-resistance.



R=±0.01

Unit 單位 : mm

ITEM NO. 編號	MILL DIAMETER 刃徑(d <sub>1</sub> )	SHANK DIAMETER 柄徑(d <sub>2</sub> ) (h6)	LENGTH OF CUT 刃長(L <sub>1</sub> )	OVERALL LENGTH 全長(L <sub>3</sub> )	LENGTH BELOW SHANK 頸下長(L <sub>2</sub> )	NECK DIAMETER 頸直徑(d <sub>3</sub> )
EM708-0010	1 (R0.5)	4	1.0	50	2.2	0.95
EM708-0012	1.2 (R0.6)	4	1.2	50	2.6	1.1
EM708-0015	1.5(R0.75)	4	1.5	50	3.0	1.4
EM708-0020	2 (R1)	6	2	50	4.0	1.9
EM708-0030	3 (R1.5)	6	3	60	6.0	2.9
EM708-0040	4 (R2)	6	4	70	8.0	3.9
EM708-0050	5 (R2.5)	6	5	80	10	4.9
EM708-0060	6 (R3)	6	6	90	12	5.9
EM708-0070	7 (R3.5)	8	7	90	14	6.9
EM708-0080	8 (R4)	8	8	100	16	7.9
EM708-0090	9 (R4.5)	10	9	100	18	8.9
EM708-0100	10 (R5)	10	10	100	20	9.9
EM708-0120	12 (R6)	12	12	110	24	11.9
EM708-0140	14 (R7)	14	14	110	28	13.8
EM708-0160	16 (R8)	16	16	140	32	15.8
EM708-0180	18 (R9)	18	18	140	36	17.8
EM708-0200	20 (R10)	20	20	160	40	19.8
EM708-0250	25 (R12.5)	25	25	180	50	24.8

Mill Dia. Tolerance (mm) 刃徑公差	Shank Dia. Tolerance 柄徑公差
0 -0.030	h6

