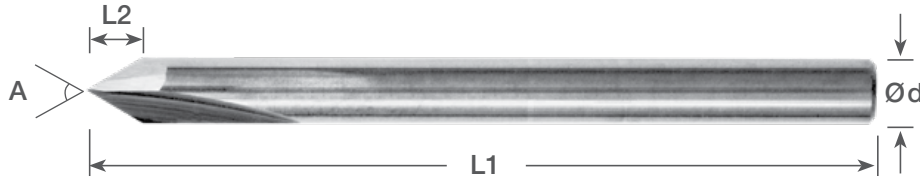


1/8" SHANK

CHAMFER MILLS

30° - 120° ANGLES
Mirror Surface Finishes
Sub Micron Grain Carbide



30° - 120° Angles

Uncoated		AITIN Coating		Included Angle A (+/- 1°)	Side Angle (+/- 1°)	Dimensions (in)		
Part Number	Stock	Part Number	Stock			Ød	L1	L2
CM-030.230	●	CM-030L230	●	30°	15°	1/8	1 1/2	0.230
CM-045.150	●	CM-045L150	●	45°	22.5°	1/8	1 1/2	0.150
CM-050.130	●	CM-050L130	●	50°	25°	1/8	1 1/2	0.130
CM-060.105	●	CM-060L105	●	60°	30°	1/8	1 1/2	0.105
CM-082.070	●	CM-082L070	●	82°	41°	1/8	1 1/2	0.070
CM-090.060	●	CM-090L060	●	90°	45°	1/8	1 1/2	0.060
CM-100.050	●	CM-100L050	●	100°	50°	1/8	1 1/2	0.050
CM-118.036	●	CM-118L036	●	118°	59°	1/8	1 1/2	0.036
CM-120.035	●	CM-120L035	●	120°	60°	1/8	1 1/2	0.035

- L SOLID TOOLS
- DRILLS
- END MILLS
- ROUTERS
- THREAD MILLS & TAPS
- ENGRAVERS
- BORING BARS
- REAMERS
- TECHNICAL

SERIES CM WORKPIECE MATERIAL																
Coating	P	P	H	H	M	K	N	N	N	N	N	N	N	S	S	
	Steel ~30HRC	Steel 30-40HRC	Hardened Steel ~55HRC	Hardened Steel ~68HRC	Stainless Steel	Cast Iron	Aluminum	Graphite	Copper Alloy	Brass	CFRP	Plastic	Thermoset Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
AITIN	★	★	★	☆	☆	☆									☆	☆
Uncoated	☆	☆	☆	☆	☆	☆	★		★	★				☆		☆

★ : Priority ☆ : Applicable Materials

Symbol Descriptions [Page L3](#)

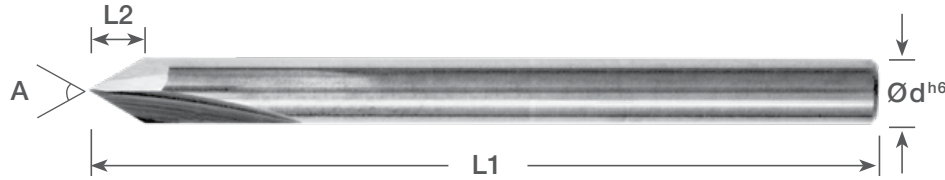
METRIC SHANK

CHAMFER MILLS

60°, 90°, 120° ANGLES

Mirror Surface Finishes

Sub Micron Grain Carbide



60° Angle

Uncoated		AlTiN Coating		Included Angle A (+/- 1°)	Side Angle (+/- 1°)	Dimensions (mm)		
Part Number	Stock	Part Number	Stock			Ød ^{h6}	L1	L2
CMM-1181.060	●	CMM-1181L060	●	60°	15°	3.00	38.00	2.50
CMM-2362.060	●	CMM-2362L060	●	60°	15°	6.00	50.00	5.20
CMM-3150.060	●	CMM-3150L060	●	60°	15°	8.00	59.00	6.90
CMM-3937.060	●	CMM-3937L060	●	60°	15°	10.00	60.00	8.60
CMM-4724.060	●	CMM-4724L060	●	60°	15°	12.00	70.00	10.30

90° Angle

Uncoated		AlTiN Coating		Included Angle A (+/- 1°)	Side Angle (+/- 1°)	Dimensions (mm)		
Part Number	Stock	Part Number	Stock			Ød ^{h6}	L1	L2
CMM-1181.090	●	CMM-1181L090	●	90°	45°	3.00	38.00	1.50
CMM-2362.090	●	CMM-2362L090	●	90°	45°	6.00	50.00	3.00
CMM-3150.090	●	CMM-3150L090	●	90°	45°	8.00	59.00	4.00
CMM-3937.090	●	CMM-3937L090	●	90°	45°	10.00	60.00	5.00
CMM-4724.090	●	CMM-4724L090	●	90°	45°	12.00	70.00	6.00

120° Angle

Uncoated		AlTiN Coating		Included Angle A (+/- 1°)	Side Angle (+/- 1°)	Dimensions (mm)		
Part Number	Stock	Part Number	Stock			Ød ^{h6}	L1	L2
CMM-1181.120	●	CMM-1181L120	●	120°	60°	3.00	38.00	0.80
CMM-2362.120	●	CMM-2362L120	●	120°	60°	6.00	50.00	1.70
CMM-3150.120	●	CMM-3150L120	●	120°	60°	8.00	59.00	2.30
CMM-3937.120	●	CMM-3937L120	●	120°	60°	10.00	60.00	2.80
CMM-4724.120	●	CMM-4724L120	●	120°	60°	12.00	70.00	3.40

SERIES CMM WORKPIECE MATERIAL																
Coating	P	P	H	H	M	K	N	N	N	N	N	N	N	S	S	
	Steel ~30HRC	Steel 30~40HRC	Hardened Steel ~55HRC	Hardened Steel ~68HRC	Stainless Steel	Cast Iron	Aluminum	Graphite	Copper Alloy	Brass	CFRP	Plastic	Thermoset Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
AlTiN	★	★	★	☆	☆	☆									☆	☆
Uncoated	☆	☆	☆	☆	☆	☆	★		★	★				☆		☆

★ : Priority ☆ : Applicable Materials

Symbol Descriptions Page L3

● : U.S. Stock Standard
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DRILLING	K
SOLID TOOLS	L
MILLING	M
HSK TOOLING	N
SPARE PARTS	P
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