

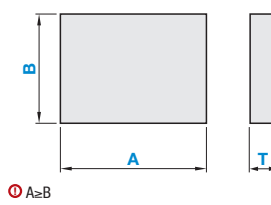


MC Nylon® Plates

Standard Type

MC Nylon® is the most versatile material among Engineered Plastics and used for various industrial purposes. New finish variations are now available in addition to the conventional Saw Cut.

*Details of color samples and features, see P.3070



Type	Grade / Material	Color	Operating Ambient Temperature
MCA	Standard / MC901	Blue	-40~120°C
MCA-G	Standard Thick Type / MC901	Blue	
MCAW	Standard / MC900NC	Ivory	Ambient Temp. ~150°C
MCAS	Sliding / MC703HL	Purple	
MCAY	High Strength / MC602ST	Dark Brown	Ambient Temp. ~120°C
MCAPS	Weather Resistance / MC801	Dark Gray	
MCCA	Conductivity CDR2 / MC501CDR2	Black	Ambient Temp. ~150°C
MCDA	Antistatic CDR6 / MC501CDR6	Black	
MCEA	Antistatic / Heat Resistant CDR9 / MC501CDR9	Black	

Dimension Tolerance of A and B			T Dimension Tolerance, Rate of Camber & Torsion		
T	A, B Unit: mm	A, B Dimension Tolerance	T	T Dimension Tolerance	Rates of Camber and Torsion per 1,000 mm
5-30	~99	±0.5	5, 7, 10	0→+1.5	1.2% or Less
	100~250	±0.75	12, 15, 20		1.0% or Less
40-100	251~	±1.0	25, 30	0→+2.0	0.4% or Less
	~300	0→+5	40, 50, 60	0→+3.0	
			70, 80, 90, 100	0→+5.0	

Finish	4 Sides		Upper-Lower Surface	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	✓	Material	—
Guaranteed Perpendicularity of Circular Sawing (NT)	Circular Sawing	✓	Material	—
4-Side Milling (4F)	Milling	∇	Material	—
6-Surface Milling (6F)	Milling	∇	Milling	∇
Upper-Lower Surface Milling (2F)	Circular Sawing	✓	Milling	∇

Precision Guarantee		
Finish	Width Parallelism	Perpendicularity of Reference Plane
Guaranteed Perpendicularity of Circular Sawing (NT)	0.1	0.1
4-Side Milling (4F)		
6-Surface Milling (6F)		

Reference plane stickers are attached to 4-side milled plates.

Standard Type

Type	Part Number		By Material Dimension Range	A	B	T	
	Finish Symbol	T Dimension Tolerance					A, B Dimension Tolerance
Circular Sawing	—	Not Available	Not Available	1 mm Increment		Selection	
				MCA	20-600	20-500	5 7 10 12 15 20 25 30
				MCA-G	301-500	301-500	40 50 60
				MCEA	20-600	20-500	10 12 15 20 25
Guaranteed Perpendicularity of Circular Sawing (NT)	NT	Not Available	Not Available	0.5 mm Increment		Selection	
				MCEA	20-500	20-400	5 7 10 12 15 20 25 30
4-side Milling (4F)	4F	Not Available	Not Available	0.1 mm Increment		Selection	
				MCEA	10-400	10-200	10 12 15 20 25
6-surface Milling (6F)	6F	Not Available	Not Available	0.1 mm Increment		0.1 mm Increment	
				MCEA	10-400	10-200	10-24
Upper-lower Surface Milling (2F)	2F	Not Available	Not Available	1 mm Increment		0.1 mm Increment	
				MCEA	20-400	20-250	5-29

- MCA Standard Blue
- MCA-G Standard Thick Type
- MCAW Standard Ivory
- MCAS Sliding
- MCAY High Strength
- MCAPS Weather Resistance
- MCCA Conductivity CDR2
- MCDA Antistatic CDR6
- MCEA Antistatic / Heat Resistant CDR9

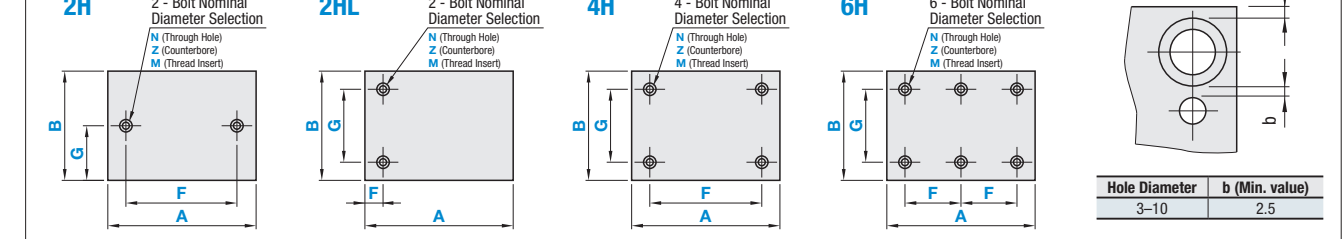
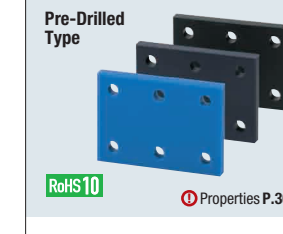
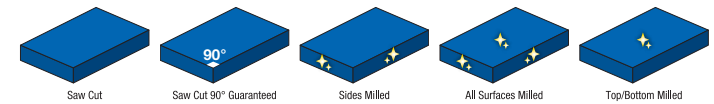
○ T40, 50 and 60 may have steps on cut surfaces.
○ If MCA-G, A≥B≥T

Part Number Example	Part Number	A	B	T
Circular Sawing	MCA	300	200	40
Guaranteed Perpendicularity of Circular Sawing	MCANTQ	200.5	100.5	10
4-Side Milling	MCA4FN	150.5	100.3	15
6-Surface Milling	MCA6FMM	100.3	90.5	10.5
Upper-Lower Surface Milling	MCA2FQ	80	50	5

Alterations	Corner Radius		Corner Cut	
	CRA	CRB	CCA	CCB
Code	CRA, CRB, CRC, CRD		CCA, CCB, CCC, CCD	
Spec.	Adds radius to any corner. R=5 mm Increment ○ 10≤A(B)-R(2R) ○ 5≤CRA, CRB, CRC, CRD≤100 Ordering Code: (Ex.) Adds R10 at the corner of A and C. CRA10-CRC10 ○ Not applicable to Sides Milled or All Surfaces Milled. ○ Not applicable to T40, 50 and 60.		Cuts any corners. 5≤Corner Cut≤50 5 mm Increment Ordering Code: (Ex.) When the corners of A and D are cut by C5→CCA5-CCD5 ○ Not applicable to Sides Milled or All Surfaces Milled. ○ Not applicable to T40, 50 and 60. ○ 10≤A-C(2C) or B-C(2C)	

MC Nylon® Plates

Pre-Drilled Type



Drilling Details				Finish	4 Sides		Upper-Lower Surface	
N (Through hole)	Z (Counterbore Hole)	M (Thread Insert)	Table 1 M (Thread Insert) Details		Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
				Circular Sawing (-)	✓	Material	—	
				Upper-Lower Surface Milling (2F)	✓	Milling	∇	

Pre-Drilled Type

Type	Part Number		A	B	T Dimension Range by Material	T	F	G
	T Dim. Tolerance	Number of Holes						
Circular Sawing	1 mm Increment		1 mm Increment		MCEA	Selection	0.5 mm Increment	
	Not Available	2H (Horizontal) 2HL (Vertical) 4H 6H	20-500	20-400			10 12 15 20 25	6-491.5 (2H, 4H) 4.5-395.5 (2HL) 6-391.5 (2HL, 4H, 6H)
Upper-Lower Surface Milling (2F)	1 mm Increment		1 mm Increment		MCEA	0.1 mm Increment	0.5 mm Increment	
	2FQ 0→+0.2 2FN ±0.1 2FM -0.2-0	2H (Horizontal) 2HL (Vertical) 4H 6H	20-400	20-250			10-24	6-391.5 (2H, 4H) 4.5-395.5 (2HL) 6-241.5 (2HL, 4H, 6H)

○ Dimension F Specification Range: For 2H and 4H, $d(d_1)+2.5≤F≤A-d(d_1)-5$; for 2HL, $d(d_1)/2+2.5≤F≤A-d(d_1)/2-2.5$; for 6H, $d(d_1)+2.5≤F≤(A-d(d_1)-5)/2$.
○ Dimension G Specification Range: For 2H, $d(d_1)/2+2.5≤G≤B-d(d_1)/2-2.5$. For 2HL, 4H and 6H, $(d_1)+2.5≤G≤B-d(d_1)-5$.
○ For Pre-drilled Type, select N (through hole) or Z (counterbore hole), for Thread Insert Type, select M (thread insert) and L (insertion length).

T	Pre-Drilled Hole Nominal Diameter			
	Through Hole	Counterbore Hole	Thread Insert	
5-6	3	—	3 4	
7-9	4	—	3 4 5 6	
	5	3 4	3 4 5 6	
10-14	6	—	4 5 6 8 10	
	8	4 5 6	3 4 5 6 8 10	
15-30	10	—	4 5 6 8	
	10	4 5 6 8	3 4 5 6 8 10	

Part Number Example	Part Number	A	B	T	F	G	Bolt Nominal Diameter	L
MCA4H	200	155	5	F160	G120		N4	
MCDA4H	500	300	10	F300	G200		M5	L7.5

Part Number Alterations	Part Number	A	B	T	F	G	Bolt Nominal Diameter	(XC / YC)
MCA2H	50	40	5	F10	G20		N3	XC10

Alterations	Hole Position from Left		Hole Position from Bottom	
	XC	F	YC	F
Code	XC		YC	
Spec.	XC = 0.5 mm Increment ○ (2H, 4H Type) $d(d_1)/2+2.5≤XC≤A-F-d(d_1)/2-2.5$ ○ (6H Type) $d(d_1)/2+2.5≤XC≤A-2F-d(d_1)/2-2.5$		YC = 0.5 mm Increment ○ (2H, 4H Type) $d(d_1)/2+2.5≤YC≤B-G-d(d_1)/2-2.5$ ○ Not available for 2H	