

# Mesh

## With Frame / Cut to Size

Stainless Steel Mesh is available for various factory automation applications such as filtration, sieving and air filtration.

### Mesh with Frame

**Material**  
**PMYF** EN 1.4301 Equiv./**PMY** EN 1.4301 Equiv./**PS06**  
**PMTF** EN 1.4401 Equiv./**PMT** EN 1.4401 Equiv./**PS06**

**Dimension Tolerance of A, B, C and D**

Type	Tolerance
Square	±0.3
Round	±0.3

**Hole Machining Details**

Screw Nominal Dia.	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9

**Mesh Position**

For mesh over 80, the mesh will be sandwiched between the main body and a 0.5mm thick frame made of the same material as the main body, and spot welded together.  
 Deflection may occur since the mesh shrinks due to spot welding.

**Square Standard Type**

**Hole Type**  
 4 Holes **4H**, 6 Holes **6H**, 8 Holes **8H**

**Round Standard Type**

**Hole Type**  
 4 Holes **4H**, 6 Holes **6H**, 8 Holes **8H**

Part Number	Type	Number of Meshes in 1 inch (25.4mm) square	Symbol	Mesh Standards			Shape	Square 10mm Increment			C Selection (mm)	T Selection (mm)	Hole Type	Nominal Dia. N (Through Hole)
				Sieve Mesh Size a (mm)	Wire Dia. b (mm)	Opening Ratio (%)		A	B	D				
PMYF (EN 1.4301 Equiv.)	K (Square)	16	X	1.30	0.29	66.9	50-500 A≥B	50-500	50-500	10 (A, D≤100)	1	4H	3	
		18	Y	1.02	0.57	41.2								
		30	X	0.91	0.5	41.7								
		40	X	0.60	0.25	49.8								
		60	X	0.56	0.29	43.4								
		80	X	0.46	0.18	51.7								
		100	X	0.28	0.14	44.4								
		120	X	0.20	0.12	39.1								
PMTF (EN 1.4401 Equiv.)	M (Round)	16	X	1.30	0.29	66.9	50-500 A≥B	50-500	50-500	20 (110≤A, D≤300)	2	6H	5	
		100	X	0.15	0.1	36.0								
		120	X	0.13	0.08	38.3								
		150	X	0.11	0.06	41.9								
		200	X	0.08	0.05	37.9								
		30	X	0.60	0.25	49.8								
		40	X	0.56	0.29	43.4								
		60	X	0.46	0.18	51.7								
80	X	0.28	0.14	44.4										

Hole Drilling Limit: C-d≥6

**Ordering Example**

**Ordering Examples and Price Calculation Method**

**Standard Type**

The price of Standard Type (Mesh with Frame) is found by adding the Mesh Unit Price (next page) to the Frame Unit Price.

Part Number: **PMYF** 16 X - K - 100 - 100 - C10 - T1

(Frame Unit Price) + (Mesh Unit Price) = Standard Type Unit Price

**Hole Type**

The price of Hole Type is found by adding the Hole Machining Charge to the Standard Type Unit Price.

Part Number: **PMYF** 30 X - K - 400 - 400 - C30 - T2 - 4H - N8

(Frame Unit Price) + (Mesh Unit Price) + (Hole Machining Charge) = Hole Type Unit Price

**Hole Selection**

Hole Type	Hole Machining Charge
4H	
6H	
8H	

**(Frame Unit Price)**

Part Number	Type	T	A	Unit Price				
				B, D (Square, Round)				
PMYF (EN 1.4301 Equiv.)	1	1	50-100	-	-	-	-	
			110-200	-	-	-	-	
			210-300	-	-	-	-	
		310-400	-	-	-	-		
		410-500	-	-	-	-		
		50-100	-	-	-	-		
	2	1	110-200	-	-	-	-	
			210-300	-	-	-	-	
			310-400	-	-	-	-	
		3	110-200	-	-	-	-	
			210-300	-	-	-	-	
			310-400	-	-	-	-	

Part Number	Type	T	A	Unit Price				
				B, D (Square, Round)				
PMTF (EN 1.4401 Equiv.)	1	1	50-100	-	-	-	-	
			110-200	-	-	-	-	
			210-300	-	-	-	-	
		310-400	-	-	-	-		
		410-500	-	-	-	-		
		50-100	-	-	-	-		
	2	1	110-200	-	-	-	-	
			210-300	-	-	-	-	
			310-400	-	-	-	-	
		3	110-200	-	-	-	-	
			210-300	-	-	-	-	
			310-400	-	-	-	-	

**Corner Cut**

Alterations: CCA, CCB, CCC, CCD

Code: **CCA, CCB, CCC, CCD**

Spec. Any corner can be cut. When C=10, 20 or 30, 10 ≤ Corner Cut ≤ C. When C=40, 10 ≤ Corner Cut ≤ 50. 10mm Increment. (Ex.) When A and D are cut with C10 → CCA10-CCD10. \*Applicable to Standard Type only.

Example: For water/oil cut (PMYF PMTF), For heat dissipation cover (PMYF PMTF).

### Mesh - Cut to Size

**Square**

**Round**

**Dimension Tolerance of A, B and D**

Type	Dimension	Tolerance
Square	20-200	±1.0
	210-500	±1.5
Round	510-1000	±2.0
	20-500	±3.0

**Ordering Example**

Part Number: **PMY** 16 X - K - 150 - 100 - 250

Type: PMY, Mesh Count: 16, Symbol: X, Shape: K, A: 150, B: 100, D: 250

Part Number	Type	Number of Meshes in 1 inch (25.4mm) square	Symbol	Mesh Standards			Shape	Square 10mm Increment		
				Sieve Mesh Size a (mm)	Wire Dia. b (mm)	Opening Ratio (%)		A	B	D
PMY (EN 1.4301 Equiv.)	K (Square)	16	X	1.30	0.29	66.9	20-1000 A≥B	20-1000	20-500	
		18	Y	1.02	0.57	41.2				
		30	X	0.91	0.5	41.7				
		40	X	0.60	0.25	49.8				
		60	X	0.56	0.29	43.4				
		80	X	0.46	0.18	51.7				
		100	X	0.28	0.14	44.4				
		120	X	0.20	0.12	39.1				
PMT (EN 1.4401 Equiv.)	M (Round)	16	X	1.30	0.29	66.9	20-1000 A≥B	20-1000	20-500	
		100	X	0.15	0.1	36.0				
		150	X	0.11	0.06	41.9				
		200	X	0.08	0.05	37.9				

**Mesh Unit Price**

Part Number	A	Unit Price B (Square)					
		20-100	110-200	210-400	410-600	610-1000	
PMY16X (EN 1.4301 Equiv.)	20-100	-	-	-	-	-	
	110-200	-	-	-	-	-	
	210-400	-	-	-	-	-	
	410-600	-	-	-	-	-	
	610-1000	-	-	-	-	-	

Part Number	A	Unit Price B (Square)					
		20-100	110-200	210-400	410-600	610-1000	
PMY18Y (EN 1.4301 Equiv.)	20-100	-	-	-	-	-	
	110-200	-	-	-	-	-	
	210-400	-	-	-	-	-	
	410-600	-	-	-	-	-	

Part Number	A	Unit Price B (Square)					
		20-100	110-200	210-400	410-600	610-1000	
PMY18X (EN 1.4301 Equiv.)	20-100	-	-	-	-	-	
	110-200	-	-	-	-	-	
	210-400	-	-	-	-	-	
	410-600	-	-	-	-	-	
	610-1000	-	-	-	-	-	

Part Number	A	Unit Price B (Square)					
		20-100	110-200	210-400	410-600	610-1000	
PMY30Y (EN 1.4301 Equiv.)	20-100	-	-	-	-	-	
	110-200	-	-	-	-	-	
	210-400	-	-	-	-	-	
	410-600	-	-	-	-	-	

**Mesh Standards**

- Sieve Mesh Size**: The gap between wires.
- Filament Diameter**: Wire diameter, sieve mesh size and number of meshes vary depending on the wire diameter.
- Mesh Count**: Number of meshes in a one inch square (25.4mm).
- Opening Ratio**: The ratio of opening area to the entire mesh. Opening Ratio = (Sieve Mesh Size / Pitch between Wires) × 100. \* 25.4mm / Number of Meshes = Pitch between Wires.

**Mesh Roughness Overview**

Rough → Fine

Mesh Count	16	30	40	100
Sieve Mesh Size (mm)	1.30	0.56	0.46	0.15
Wire Dia. (mm)	0.29	0.29	0.18	0.1
Opening Ratio (%)	66.9	43.4	51.7	36.0