

PHOTOCHEMICAL Etching/Milling - PCM

SURON 's advanced photochemical etching/milling (PCM) is one of the most cost effective processes for geometrically complex products, in either small batches or mass production. It's based on a lithographic process, where tooling is relatively inexpensive and rapidly available for production.



2025



SURON
Precision Solutions

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Feature	Standard Value
Material	Ferrous Alloys: Kovar, Invar, Alloy42, Stainless-Steel Copper Alloys: PhosBronze, Brass, BeCu, Nickel-Silver Nickel Alloys
Metal thickness range (T)	0.012-1.5 mm (.0005"-060")
Part maximum size	585X890 mm (23"x35")
Minimum hole/slit size	100%T * Down-to absolute 0.1 mm (.004")
Minimum line width between two openings	50%T * Down-to absolute 0.060 mm (.0024")
Minimum inner corner radius	70%T
Minimum outer corner radius	40%T
Minimum dimensions tolerance	±10%T for T<0.6mm ±15%T for T>0.6mm * Down-to absolute ±0.015 mm (.0006")
Minimum center to center tolerance	±0.010 mm (.0004")
Cross-section cutting line wall and step diagram:	
Blind hole / step depth (D)	50%T-80%T
Blind hole / step cross section radius	100%D

- Ideal for mass production and graphical complexity parts
- Permits multiple depths as steps, sockets and trenches
- Stress relief product
- Burr-free cutting line