

# 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.**



**2024**



**SURON**  
Precision Solutions

# PHOTOCHEMICAL Etching/Milling - PCM

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