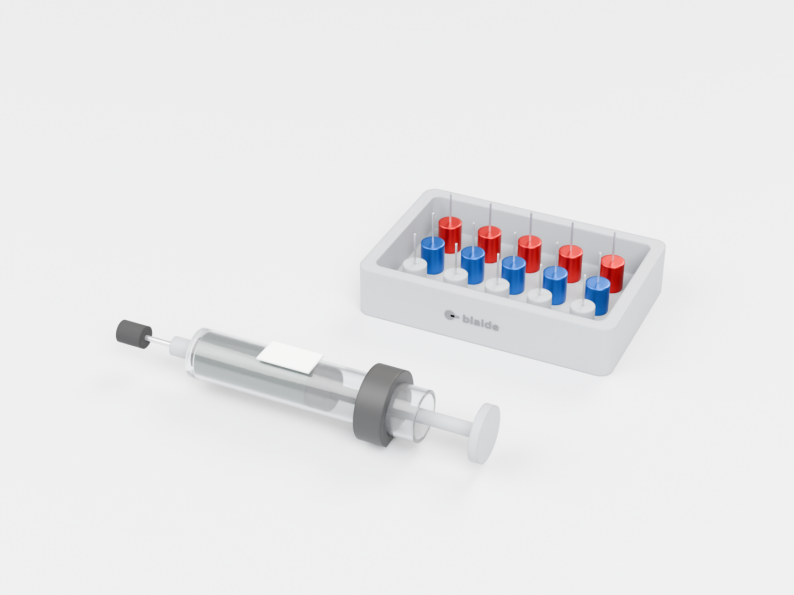
Solder mask kit: User Guide

MSK | Blaide product line | 17 November 2026 | Design only: nothing built or tested | Draft



Using it

- **1.** Print and cure the calibration coupon first; under a loupe, find the smallest pad gap that still has an unbroken mask strip.
- **2.** Set that value as the minimum mask strip in the app.
- **3.** Fit the mask cartridge in dispenser B.
- **4.** Run the board's copper or silver steps as usual; the mask step follows automatically.
- **5.** Check the pads are clean before pasting; wipe any haze with isopropyl alcohol.

Safety

Hazard	Protection	What you must do
Uncured mask ink is a skin sensitiser (typical of UV inks)	Sealed cartridge	Gloves; follow the ink's safety sheet (ink not yet chosen)
405 nm laser during cure	Printer lid and switches	See the printer's safety document

Specification

Parameter	Target
Mask film	25 um target
Nozzle	0.25 mm
Opening growth	0.05 to 0.10 mm beyond each pad
Finest mask strip between pads	needs a 0.4 mm pad gap at 0.10 mm growth, 0.3 mm at 0.05 mm (calculated)
Cure	405 nm laser raster, 0.12 mm pitch, about 6 % duty at 40 mm/s for 300 mJ/cm2
Cure time	20.8 s per cm2
Ink per 40 x 30 mm board	27 uL