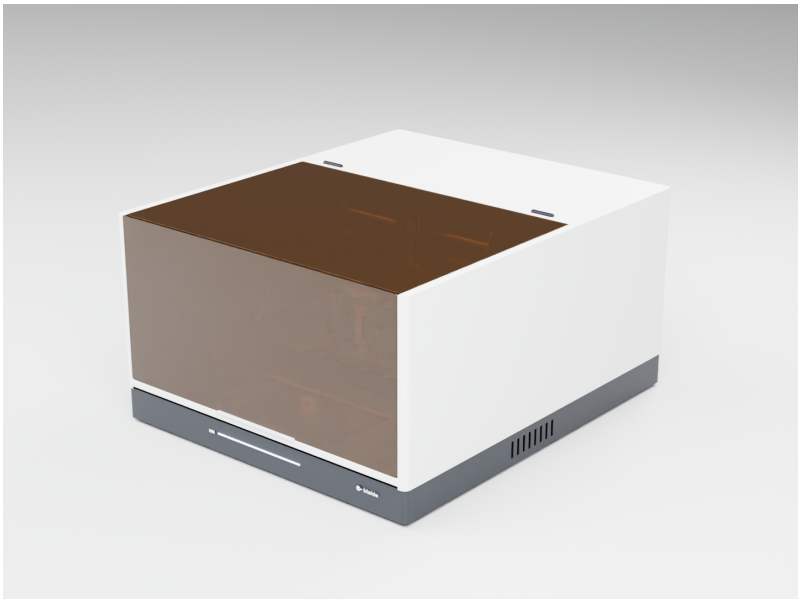
Pro machine: Specification

S1-PRO | Blaide product line | 17 November 2026 | Design only: nothing built or tested



Requirements

- 300 x 200 mm board area
- Same tools, cartridges, boards and app

Specification

Parameter	Target
Board area	300 x 200 mm
Envelope	550 x 640 x 330 mm
Mass	about 30.8 kg (scaled from the model)
Bridge span	510 mm; calculated sag 18.3 um
Bed	330 x 230 mm; heated zone 180 x 140 mm
Full-bed heating would need	602 W (not adopted)
Tools, cartridges, boards, app	identical to the printer

Design summary

- Built from the same model with 16 dimensions changed: 550 x 640 x 330 mm
- Bridge span 510 mm; calculated sag under the carriage 0.018 mm
- Heat a 180 x 140 mm zone, not the whole bed, to stay on the 250 W supply

All figures are design targets, calculations or planning values.