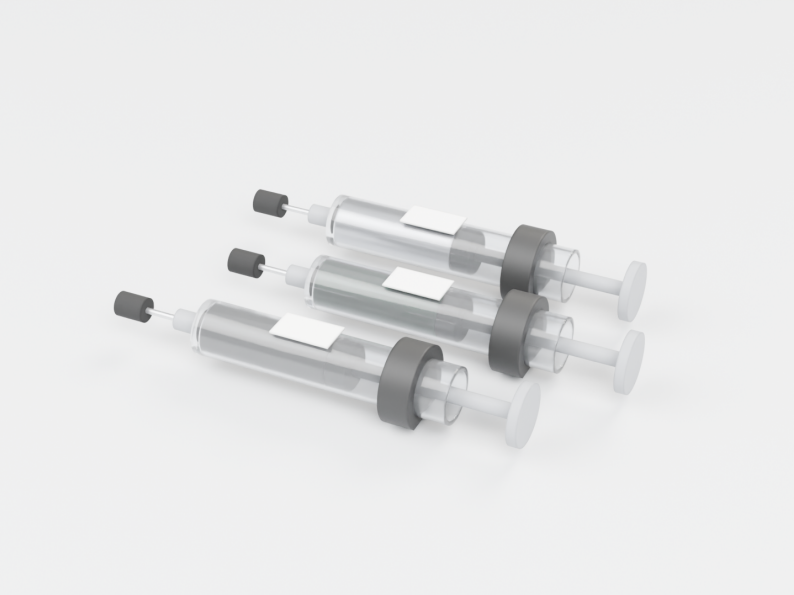
# Ink and paste cartridges: Specification

CRT-3 | Blaide product line | 17 November 2026 | Design only: nothing built or tested



## Requirements

- Seats one way only; cannot be fitted to the wrong tool position
- Machine reads what is fitted and sets flow and cure itself
- Usable for 180 days from fill when stored cold
- No lock-out of other inks

## Specification

| Parameter | Target |
|---|---|
| Barrel | 3 mL, 85 x 16 x 14 mm overall |
| Fills | 2 mL silver or via paste; 3 mL dielectric, mask, solder paste |
| Key | Collar with one flat: seats one way |
| Identity | Resistor to ground, seven codes from 1 k to 100 k |
| Shelf life target | 180 days chilled for silver and paste; 365 days for dielectric and mask |
| Storage | 2 to 8 C, capped, tip up |

## Design summary

- 3 mL barrel, 85 x 16 x 14 mm, keyed collar with one flat
- Identity resistor to ground, read through a 10 k pull-up: 1 k, 2.2 k, 4.7 k, 10 k, 22 k, 47 k, 100 k
- Each identity carries nozzle size, bead height, feed, cure temperature and time, or laser cure
- Foil pouch with desiccant; lot and use-by date on the label

All figures are design targets, calculations or planning values.