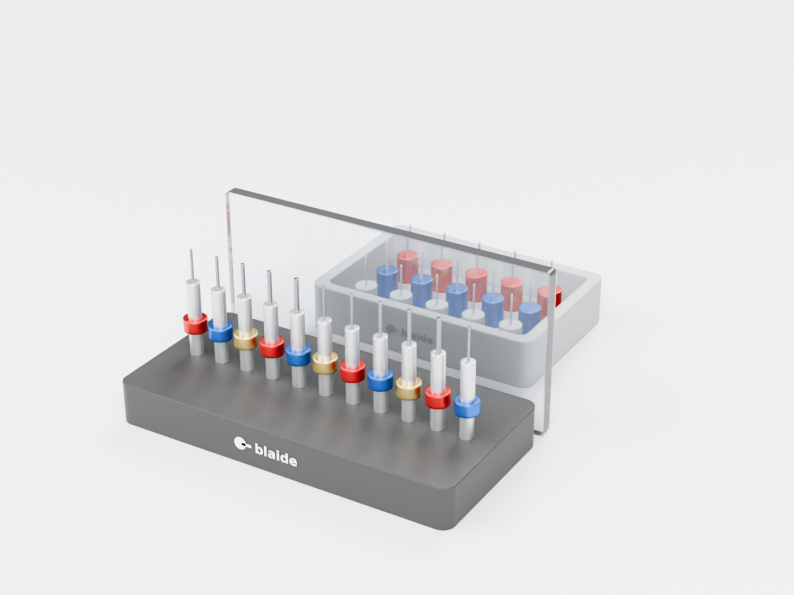
Wear packs: Specification

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



Requirements

- Machine tells the user before a worn part spoils a board
- One reorder covers a known amount of work

Specification

Parameter	Target
Milling pack	5 engraving bits, 5 drills (0.6, 0.8, 1.0 mm), 1 end mill; 3.175 mm shanks
Nozzle pack	25 each of three sizes
Bed pack	5 sacrificial sheets, 1 calibration target
Air pack	2 filter cartridges
Planning life	bit 40 m, drill 600 holes, nozzle 60 m, sheet 15 jobs, filter 150 h, probe tip 20,000 touches
Prompts	reorder at 80 % of life, replace at 100 %

Design summary

- Six counters: milling length, drilled holes, dispensed length, sacrificial-sheet jobs, filter hours, probe touches
- Reorder prompt at 80 % of life, replace at 100 %
- Bit case holds 11 tools with colour rings by type

All figures are design targets, calculations or planning values.