



R&D SENSOR PROTOTYPING

# BENCHWEAVE-X

Model Halo-X

The bench platform — small footprint, full conductive workflow.

A compact 10-needle single-head machine optimized for benchtop R&D, university labs, and startup proof-of-concept work. Same conductive-thread toolchain as the production machines, sized for a single workstation.

### WHY THIS MACHINE

PhD students and startup engineers shouldn't have to wait for production-line time to test an idea. BENCHWEAVE-X drops on a desk, runs on a 120 V outlet, and handles the same DST files as the rest of the catalog. From sketch to stitchout in under an hour.



Prototype pressure sensor patch

### CAPABILITIES

- Capacitive and piezoresistive sensor prototyping (all geometries)
- Conductive thread stitching — silver, kevlar, CNT, water-soluble
- Compact 0.5 cm minimum geometry up to 240 × 360 mm field
- Quiet 120 W operation — fits in a shared lab without retrofit
- 100M-stitch memory — long runs without reloading

### IDEAL FOR

PhD research groups, university teaching labs, hardware startups in proof-of-concept stage, corporate innovation benches.

### SPECIFICATIONS

Configuration	10 needles × 1 head
Functions	Cap • Finished garments • Bench R&D
Embroidery area	240 × 360 mm
Maximum speed	1,000 spm
Control	7" colour touchscreen LCD
Voltage	Standard 120 V (wide-input 80 – 260 V)
Power	120 W — quiet operation
Memory	100,000,000 stitches
Machine size	540 × 820 × 1,500 mm
Net weight	42 kg

### SAMPLING

Bring your spec — we'll stitch a sample on this platform at our Albany showroom.

### PRICING

Contact for current pricing — tariffs included; rent-to-own available.