



CONDUCTIVE STITCHING • 360° HEAD

STITCHCIRCUIT-15

Model FT-1501R

Embroidered PCBs, antennas, and surface sensors at production speed.

Build embroidered circuits and antennas with 15-needle colour range and a 360°-rotating R-series head — the only platform in the catalog with true any-direction trace routing without rotating the workpiece.

WHY THIS MACHINE

Lay a meander antenna, drop in a capacitive touch pad, jumper a trace, and route a piezoresistive grid — in one DST file, on one head. Fifteen needles means you can pre-load conductive, insulating, sacrificial, and gradient threads and let the color change call them up in sequence.



Conductive traces on woven substrate

CAPABILITIES

- Silver-plated nylon, kevlar, carbon nanotube, water-soluble thread
- Capacitive and piezoresistive sensor geometries (all types)
- Embroidered patch, monopole, and meander antennas
- Sacrificial routing for free-form conductor patterns
- 15-needle thread library — multiple conductors loaded simultaneously

IDEAL FOR

Wearable electronics groups, antenna researchers, sensor labs scaling beyond bench coupons.

SPECIFICATIONS

Configuration	15 needles × 1 head, 360° rotary
Functions	Flat • Cap • Finished garments
Embroidery area	350 × 500 mm
Maximum speed	1,200 spm
Control	12" colour touchscreen LCD (17-language)
Memory	20,000,000 stitches • 200 designs
Stitch length	0.1 – 12.7 mm
Voltage	Standard 120 V (wide-input 80 – 260 V)
Power	150 – 160 W — quiet operation
Net weight	100 kg
Standard accessories	Cap driver, cap station, 2 cap frames, garment frames (9/12/15/19/30×30 cm), 58×36 cm flat frame, steel stand, auto winder, tool kit

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.