

COMPOSITE TOW PLACEMENT • PRODUCTION
TOWFORGE-4

Model FT-604+4LPD

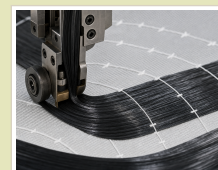
Four-head production tailored fiber placement — 1K to 52K tow.

A four-head specialty platform pairing flat embroidery with a large taping/PD head at every position. The 4-LPD is a production machine — engineered for parallel tow placement and continuous wire / tube placement at industrial throughput.

Reference photo — current production unit photography available on request.

WHY THIS MACHINE

Composite engineers can program fiber paths that follow the load, then build four identical preforms in parallel — or four variations for design-of-experiment work. The same platform places copper harnesses, CNT yarn, and tubing for high-volume smart-textile production.



Tailored carbon-tow preform

CAPABILITIES

- Tow sizes 1K through 52K — carbon, glass, basalt, natural fiber
- Flat preforms that drape — programmed fiber orientation
- Production-scale parallel output across four heads
- Couches 20–42 AWG wire, 16 µm CNT thread, tubing to 15 mm
- Drives 3–55 V, 1 mA – 15 A heating element circuits

IDEAL FOR

Composite manufacturers, aerospace and automotive R&D, smart-textile OEMs scaling production.

SPECIFICATIONS

Configuration	6 needles × 4 flat heads + 4 large taping (PD) heads
Functions	Flat • Cording • Taping • Tow placement
Working volume	750 × 750 × 1000 mm
Maximum speed	1,000 spm
Control	15" colour touchscreen LCD
Drive	70 mm servo main motor
Thread capacity	Extended spool — ~3.5× standard
Power	Standard 120 V — quiet operation
Packing	Wooden crate

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.