



FLUIDIC CORDING · SOFT ROBOTICS & MICROFLUIDICS

FLUIDWEAVE-9

Model FT-901+1PD

Pneumatic and hydraulic tubing — soft actuators and wearable fluidics.

Same platform, different mission: the PD head's couching channel handles silicone and TPU tubing up to 15 mm, anchoring fluidic routes into a textile carrier without crimping the lumen.

WHY THIS MACHINE

Soft robotics teams have wrestled with hand-routing pneumatic lines for years. Program a path in DST, drop the tubing under the PD head, and you have a textile-integrated pneumatic harness in minutes. Microfluidic researchers can build wearable assays the same way.



Silicone tubing in textile carrier

CAPABILITIES

- Silicone, TPU, and PU tubing up to 15 mm diameter
- Pneumatic actuation routes for soft robotic skins and gloves
- Hydraulic lines for thermal management and wearable cooling
- Microfluidic channels for biosensing and lab-on-textile
- Combined fluidic + electrical routing on the same workpiece

IDEAL FOR

Soft robotics labs, microfluidics groups, wearable cooling / heating startups, prosthetics R&D.

SPECIFICATIONS

Configuration	9 needles × 1 flat head + 1 taping (PD) head
Functions	Flat • Cording • Taping (fluidic) • Sequin • Laser
Embroidery area	650 × 1200 mm
Maximum speed	1,200 spm
Couching capacity	Tubing up to 15 mm OD
Control	12" colour touchscreen LCD
Power	Standard 120 V — quiet operation
Machine size	2,470 × 1,630 × 1,600 mm
Net weight	650 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.