Arvind Limited Becomes First Manufacturer to Deploy unspun's OneWeave™ 3D Weaving Technology

Two industrial 3D weaving machines are expected to be operational at Arvind's Ahmedabad facility by December 2026, with a path to 30+ additional machines across India and the U.S. — a step toward more responsive, automated, and lower-waste apparel production at industrial scale.

unspun, the B Corp-certified fashion technology company behind OneWeave™ 3D weaving, and Arvind Limited, one of India's leading textile-to-retail conglomerates, announced a strategic partnership to bring yarn-to-garment 3D weaving into industrial-scale apparel manufacturing.

The deployment marks Arvind Limited's first installation of OneWeave™ technology and the first time unspun's 3D weaving platform will move from its own microfactory into the production environment of a global Tier-1 manufacturer — an important step in the company's broader vision for more responsive, automated and lower-waste apparel supply chains.

Under the partnership, Arvind will deploy two OneWeave™ machines at its facility in Ahmedabad, India, with operations expected to begin by December 2026. The phased partnership includes a path to 30+ additional machines across India and/or North America in 2027–28, scaling with demand from global apparel brands. unspun will provide installation, commissioning, training, software, and ongoing service and support; brands will contract with Arvind to produce using the technology.

Demand for the new capacity is already building, with a pipeline of leading global apparel brands preparing programs. With initial capacity limited to the first two machines, production slots will be allocated on a first-come, first-served basis, giving early-moving brands priority access as the deployment scales.

"For decades, Arvind has helped define what scaled, high-quality apparel manufacturing can look like, and they have consistently been willing to invest in the technologies that move the industry forward. That makes them exactly the right partner for this next chapter. This partnership is about more than installing machines; it is about scaling our technology around the world with a world-class manufacturing partner, building the capacity to bring production closer to major markets in the U.S. and Europe, and helping solve some of the apparel industry's biggest problems in the process. Bringing OneWeave™ into an industrial Tier-1 manufacturing environment is a critical step toward the responsive, demand-led manufacturing model our technology is designed to unlock: one where brands can respond to demand in weeks instead of months, reduce waste and markdown exposure, and move closer to making only what is needed." — Arne Arens, CEO, unspun

"Innovation has always been central to Arvind's growth journey, and our decision to deploy OneWeave™ reflects our conviction that the future of apparel manufacturing will be more automated, responsive and sustainable. This technology has the potential to significantly reduce manufacturing complexity, improve material utilisation and enable faster replenishment cycles for global apparel brands. As customer expectations continue to evolve, brands are seeking shorter lead times and greater flexibility without compromising quality or sustainability. Through this partnership with unspun, we are building capabilities that can help address these needs while strengthening our leadership in advanced textile manufacturing. We believe this is an important step towards a more demand-driven and resource-efficient apparel ecosystem." — Karan Ojha, CEO – Wovens Business & COE, Arvind Limited

OneWeave™ weaves yarn directly into three-dimensional garment forms, bypassing 2D fabric production, most cutting, and most sewing. A pant leg is woven in roughly 10 minutes, and each machine can produce approximately 20,000 pants per year — creating a new foundation for faster, more flexible apparel production. By moving OneWeave™ from unspun's microfactory into a global Tier-1 manufacturing environment, and by building a path toward additional capacity in India and the U.S., the partnership brings the industry closer to a future in which brands can replenish closer to demand, produce nearer to end markets, and rely less on long-range forecasting and bulk inventory bets.