Groundbreaking Innovation: Air Fiber Washer, Inditex and Jeanologia's Answer to Microfiber Pollution in Textiles

In a novel endeavor to curb the widespread issue of garment microfiber pollution, Inditex and Jeanologia have unveiled a remarkable piece of technology: the Air Fiber Washer. This is the industry's first air-based system designed to minimize the shedding of microfibers in textiles during manufacturing.

Microfibers, minuscule particles less than 15mm in length, are frequently released from textiles, particularly during their initial wash cycles. As a pervasive issue in the textile industry, the shedding of microfibers presents significant challenges due to the limited capabilities of current industrial water treatment systems. The Air Fiber Washer, an innovation set to be unveiled at the ITMA International Textile Technology Fair in Milan from June 8-14, aims to combat this issue through an advanced pre-treatment procedure that effectively eradicates these particles.

By harnessing the power of dynamic airflow coupled with microfiltration, the Air Fiber Washer can decrease microfiber shedding by up to 60%, without relying on water, thermal energy, or compromising fabric quality. As the air flow sweeps the garments, microfibers are extracted and collected into a bag, paving the way for potential recycling and a future where the textile industry achieves zero waste. Depending on the fabric type and machine conditions, each Air Fiber Washer has the capacity to collect a staggering 325kg of microfibers annually.

Inditex and Jeanologia intend to offer this breakthrough technology to the broader industry without any strings attached. This selfless initiative aligns with both companies' commitment to reducing microfiber shedding and marks a new era in the textile industry's sustainability efforts.

The collaborative work of these companies is an embodiment of their commitment to proactive environmental stewardship. Jeanologia, a frontrunner in eco-efficient technology, strives to provide cost-neutral technological solutions, while Inditex, a leading global fashion retail group, pledges to achieve climate neutrality by 2040.

Both Enrique Silla, President of Jeanologia, and Javier Losada, General Director of Sustainability at Inditex, reiterate the companies' commitment to minimizing environmental impact and fostering industry-wide collaboration.

Since its inception in 1994, Jeanologia has been an advocate for a sustainable, ethical, and eco-efficient industry through the implementation of disruptive

technologies. Their MissionZero program aims to eliminate waste produced in the creation and finishing of Blue Jeans, pushing the boundaries of industry transformation.

Inditex and Jeanologia's partnership and their novel Air Fiber Washer represent a significant stride in confronting the challenges of microfiber shedding in textile manufacturing. As the industry continues to evolve, such initiatives offer a beacon of hope for the future of sustainable fashion.