



LAIP's Mini Jet Fabric Sample Dyeing Machine



A complete, integrated partner for the modern textile dyeing line



Based in Prato—an international hub of textile excellence—LAIP has built its reputation on technological depth, engineering precision, and continuous innovation. Today, LAIP is uniquely positioned to offer the global market a complete and fully integrated service covering the entire dyeing line, from raw fiber management to final drying, with solutions that span fabrics, fibers, yarns, tops, and tow.

What distinguishes LAIP is its ability to engineer comprehensive, turnkey dyeing processes tailored to the evolving demands of the industry. As textile production increasingly embraces automation, sustainability, and recycling, LAIP delivers systems designed to meet the most advanced requirements—whether for fiber dyeing, cotton bleaching, depolymerization of post-consumer textile waste, or the decoloring of fibers and denim. Each line is conceived as a modular, scalable platform that ensures maximum process efficiency and a reduction of environmental impact.

At the heart of this capability lies LAIP's extensive portfolio of high-performance dyeing machines, each engineered to deliver precision, flexibility, and low resource consumption.

Beyond its long-established leadership in tow, package, and fiber dyeing with the 198 HT machines that maintain a constant liquor ratio even with partial loads, LAIP is rapidly consolidating its position in the field of sportswear and functional fabric dyeing. This growth is driven by close collaborations with premium industry players such as Singtex, Eurojersey, Rosset, and many others who have chosen LAIP's Beam and 250 HT Jet machines to meet the demanding requirements of high-performance textiles. These solutions ensure

superior fabric protection, exceptional colour uniformity, and the process stability needed for advanced stretch materials—confirming LAIP as a trusted partner for the world's most innovative athletic and technical fabric producers.

LAIP's commitment to sustainability extends beyond its dyeing machines to energy recovery: the company offers the WEXY heat-recovery system, a highly efficient heat exchanger designed to capture thermal energy from dyehouse wastewater and reuse it in production. WEXY can operate continuously on washing lines or in batch mode on hot effluent streams and is even compatible with on-site water treatment systems (ETP). A PLC control panel measures recovered kilocalories, flow rate, and temperature, allowing precise monitoring and reuse of heat. By reinjecting the recovered warm water back into the plant, WEXY helps reduce energy consumption, lower operating costs, and minimize environmental impact.

LAIP's forward-looking approach is also embodied in MINI JET, the new smart solution for in-house fabric sampling that just debuted at ITMA ASIA 2025. Compact and powerful, MINI JET enables dyeing of up to 20 meters per colour, delivering 100% dye reproducibility and up to 50% faster cycles. By allowing seamless transfer of results from sample to bulk production, it accelerates development workflows while ensuring accuracy, consistency, and full Industry 4.0 integration.

From advanced industrial lines to next-generation sampling solutions and energy-recovery systems, LAIP continues to shape the future of textile dyeing technology—combining complete process integration with Italian engineering excellence. ■ ■