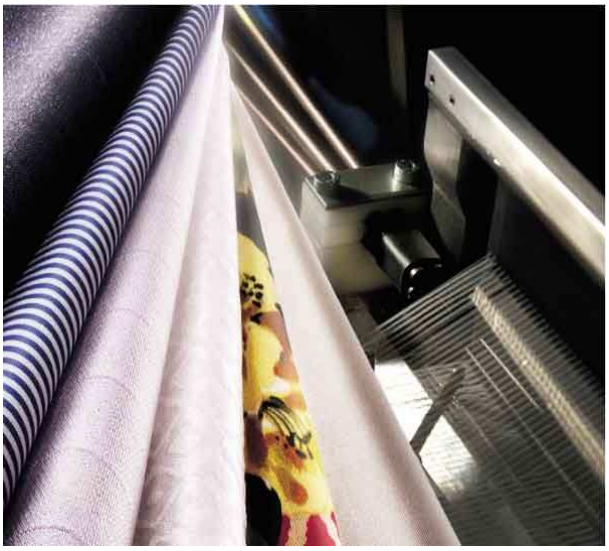
mSMIT TEXTILE JS900 AIR-JET WEAVING MACHINE

The new generation

SMIT TEXTILE JS900: from a modular project, the air-jet machine that knows no compromise

The modular structure of the new generation of SMIT TEXTILE weaving machines creates a technological synergy among the various weaving systems, allowing the most suitable textile, functional and constructive solutions adopted on the other SMIT TEXTILE product lines to be implemented on the new JS900 machine



JS900: kinematic mechanisms with cams

The double sley drive with cams unable the adoption
of the most suitable reed movement profile, in order to guarantee the best dynamic and functional answer to the needs of a weaving machine destined to remain competitive over time.

JS900: the stability that comes from experience

Rigid structure, simple kinematic mechanisms, intrinsically balanced sley and drive mechanisms ensure:

- great stability at high speeds
- minimum dynamic loads on the base
- low noise production.

JS900: the functional strategies for excellent fabric quality

- Automatic pick finding system with sley at rest.
- Warp tension control system by means of electronic take-up and let-off, back-rest with low inertia and load cell.
- Optimized warp path geometries.

JS900: advanced technology for an impeccable production quality

The SMIT TEXTILE air-jet machine combines the most advanced electronic and fluid dynamic solutions to achieve maximum productivity, absolute operating reliability, fabric quality to meet the most demanding requirements.

JS900: the domain of electronics

The electronic multiprocessor control and the CAN-BUS communication system, besides driving the electronic take-up and let-off, interface with:

- terminal with multilingual keyboard and display, with regulating, control, diagnostic and assistance functions
- pneumatic weft insertion system
- electronic weft braking
- electronically-controlled weft feeders
- electronically-controlled rotary leno binding device
- electronic weft cutting.

JS900: the most modern fluid dynamic technology

- High-speed main nozzles
- Fixed or mobile auxiliary nozzles
- Relay shower nozzles
- Stretching of the weft by multiple nozzle.

JS900: power at the service of quality

- "Direct Dynamic Drive" control: operating speed is reached with a minimum rotation angle **- high fabric quality.**

JS900: a wide range of versions for maximum versatility

The SMIT TEXTILE JS900 air-jet machine is available in a wide range of configurations, offering the ideal solution for every application.

- Weft insertion available in 2, 4, 6 colours.
- Weft density range from 2 to 200 insertions /cm.

- Weaving widths from 1.7 to 3.8 m.
- Warp beams diam. 800 and 1000 mm.

Available in 2/2 for weaving widths from 2.6 m to 3.6 m.

- Electronic dobby.
- Tappet motion.

The air-jet weaving machine JS900 is the fruit of SMIT TEXTILE's experience and extensive research

50 years of experience in weaving technology, 10 years of research in fluid dynamics and electronics, 2 successful models of air-jet weaving machines form the base for the development of the new JS900, which completes the range of SMIT TEXTILE weaving systems.

SMIT TEXTILE: Air Jet evolution

- 1994: Terry Jet
- 1995: FAST Jet
- 2003: SMIT TEXTILE JS900.

The air-jet model comes from the same platform as the completely redesigned rapier weaving machine and takes advantage of the best technological and technical solutions offered by the experience of SMIT TEXTILE in the construction of weaving machines.