



Super Elf S3

The Super Elf S3 continues the evolution of ROJ weft feeders for air and water-jet looms.

With the inclusion of the latest optical sensor technology, based on the principle of “signal reflection”, extremely accurate sensing of the yarn can be achieved – even in the most difficult working environments.

The Super Elf S3 can be installed on any type of air or water-jet loom equipped with CAN communication, with the exception of Picanol air-jet looms.



PULSAR HP- END OF INSERTION BRAKE

On today's high-speed machines, an end of insertion brake is required. The latest Pulsar HP utilises our expertise, combining state-of the art technology and user-friendly operation, resulting in excellent performance. Recommended for delicate or weak yarns, the Pulsar HP is used to further control yarn tension at the end of the insertion cycle, thus avoiding:

- Weft breakage at the end of the weft insertion
- Weft loops or slack picks in the fabric

The Pulsar HP is also used to pull-back the weft after it is cut, in order to avoid the tail of the last weft inserted getting twisted with the next weft to be inserted. The Pulsar HP operates in conjunction with a feedback sensor for, real-time, control of the braking function within each weft insertion.



ADVANTAGES

- Stable reading of yarn signals in dirty and dusty environments
- Reliable reading of very fine yarns, as fine as 7 den
- IP 65 sealing protection for use in all weaving conditions
- New “high-speed” stopper magnet design
- For greater versatility, the updated user-friendly design allows fast and easy adjustment of the spool-body diameter
- Industry 4.0 ready

HOW IT WORKS

The innovative optical sensor system ensures perfect control of the following functions:

Accurate measurement of the weft insertion length, with a “double check” sensor for both Z and/or S winding direction.

Real-time control of the yarn “take-off” point by the reserve sensor ensures the yarn flight time is as fast and consistent as possible.

Input yarn break sensor for the detection of yarn breaks on the bobbin side.

TECHNICAL SPECIFICATIONS

Maximum speed	2450 m/min
Yarn count range	6 Nm - 7 den
Maximum yarn separation	2.2 mm
Winding direction	“S” and “Z”
Sensor systems	Optical
Dimensions	170 mm height 325 mm length 130 mm width
Weight	9.5 kg



CARPET WEAVING MACHINES

VELVET WEAVING MACHINES

TUFTING SYSTEMS

ADVANCED KNITTING TECHNOLOGY

YARN EXTRUSION LINES

ADVANCED HEAT-SETTING SOLUTIONS

SHEDDING SYSTEMS

HARNESSES

WEFT INSERTION SYSTEMS

FINISHING MACHINES

YARN TRADING

QUALITY ASSURANCE FOR TEXTILES

PRODUCTION MANAGEMENT SOLUTIONS

MOTORS & DRIVES

HIGH PRECISION IRON FOUNDRY

BULK HANDLING

We imagine, build and integrate innovative textile systems for flooring qualities, home linen, fashion fabrics and technical textiles.

Sharing inspiration and expertise with our customers worldwide, we shape the textile industry of the future.

Creating success for them all, from yarn to finished product.

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