



EFS 920

Electronic Yarn Feeder: Exact constant yarn tension during reciprocation process

The EFS 920 is the first yarn feeder with an integrated yarn take up system for elastic and non-elastic yarns.

The EFS 920 can be used with sock and hosiery machines, seamless machines and flat knitting machines. It extends the operating range of these machines and eliminates the use of complicated mechanical yarn take up systems.

Our yarn take-up maintains the same, precise yarn tension in both the forwards and reverse directions. Mechanical systems do not provide this level of precision.

Yarn tension and yarn speed are electronically controlled and adjusted rapidly with a high degree of precision. These two parameters are shown on the high-contrast display at all times.

Advantages

- The EFS 920 makes it possible to run knitting machines at higher speeds and therefore considerably increases production rates
- The high-dynamics motor makes speed and tension adjustments in milliseconds to ensure that yarn tension remains constant at precisely the correct setting
- The tension-controlled take-up system has a yarn take-up path length of 600 mm making it suitable for all applications
- On sock and hosiery machines it is no longer necessary to use another yarn when knitting heels and toes
- No more plating faults at rapid speed changeovers, resulting in less fabric faults
- Using the EFS 920 on flat knitting machines greatly improves fabric appearance
- Individual units can be grouped together

EFS 920: components

1 Twin magnet brake

The twin magnet brake has fine adjustment and is self-cleaning. It is designed to ensure a constant yarn input tension. The upper part has a closing eyelet to prevent the formation of loops as the yarn passes through.



2 Yarn clamp

The yarn clamp is actuated by an electromagnet and moves over the take-up arm position to hold the yarn in position during the take-up process.



3 Yarn wheel

The yarn wheel is light and very strong. This is the ideal combination for dealing with the dynamic stresses transmitted by the motor. Precision yarn take-up ensures optimum winding and prevents overwinding.



4 Take-up arm

The take-up arm is behind the yarn wheel and during take-up lays the yarn onto a separate store. The maximum take-up length is 600 mm.



5 Yarn sensor

The yarn sensor has a yarn lifter for automatic zero setting. The rapid response sensor ensures optimum adjustment and maintenance of the set yarn tension. Rapid signal processing and fast motor regulation ensures that there are no yarn tension peaks.



Technical Data

Power supply:	57 V DC
Max. current:	3 A
Max. power:	35 VA
Max. yarn feed rate:	1,500 m/min
Yarn tension range:	0.5 cN to 40 cN
Max. take-up:	600 mm
Weight:	0.7 kg

Applications		
	<i>Circular knitting machines</i>	■ <i>Flat knitting machines</i>
■	<i>Sock machines</i>	<i>Warp knitting machines</i>
■	<i>Hosiery machines</i>	■ <i>Seamless machines</i>

ADVANCED KNITTING TECHNOLOGY

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