

# EliVAControl V.2 - EliVAC Monitoring System for EliTe®CompactSet

## Advantages:

- Monitoring of the vacuum over the whole machine length
- Acute malfunctions are instantly detected and displayed
- Creeping drop in pressure is detected in time
- No necessity of setting a higher vacuum for additional security in case of malfunctions
- Costs savings due to less inspection work

EliVAControl V.2 monitors the EliFans of the EliVAC system for correct speed and thus ensures a uniform vacuum over the whole length of the ring spinning machine. A sensor spots every single EliFan individually malfunctions are detected and indicated the processing of non-compacted yarn is reliably prevented. Among others, malfunctions of the EliFan can have the following reasons:

- Old or defective EliBelts
- Contaminated EliFan (for instance by fibre strands sucked into the suction slot of the EliTube)
- With the EliVAControl V.2 upgrade version, handling will be even easier and more reliable.

## Function

A sensor scans the speed of the EliFan whorl, which represents the vacuum effective at the suction slots of the EliTubes. The data of four individual sensors are collected in one control unit. The control units are located in the sections of the ring spinning machine. The control units pass on the data to the central display. At the display a reference speed is entered as well as a first threshold value to initiate a warning message and a second threshold value for an error message. Whenever the speed of an EliFan drops below the threshold values for the warning message (10% below reference value recommended) or the error message (20% below reference value recommended), the ID-number of the individual EliFan is indicated on the display and a red light-emitting diode (LED) lights up in the corresponding control unit in the spinning section. In case of an error message, an additionally installed warning light on the endstock of the ring spinning machine is activated. Alternatively, the customer is free to link up the error message with an automatic stop of the ring spinning machine to prevent the production of low quality yarn. With the ID-number given, the position of the EliFan in question is easily localized.