

STAR RL MACHINERY

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Liner alignment machine - Model: SRL 1600

I. Supply scope

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|---|--------------------------------------|-------|
| 1 | Unwinding correction device | 1 set |
| 2 | Liner expander and flattening device | 1 set |
| 3 | Winding device | 1 set |
| 4 | Electrical control system | 1 set |
| 5 | Pneumatic system (FESTO) | 1 set |
| 6 | Safety system | 1 set |

II. Technical parameters

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|-----|--|---|
| 1. | Liner width | Max:1600mm |
| 2. | Liner coil diameter | Max:600mm |
| 3. | Linear speed | Max: 40m/min |
| 4. | Correction accuracy at one side | ±5mm |
| 5. | Max. Liner winding coil diameter | 600mm |
| 6. | The maximum tensile force that the liner can withstand | 50kg/cm |
| 7. | Platform | On the right(From transportation direction) |
| 8. | Machine power | 3-4KW |
| 9. | Supply power | 380V, 60Hz |
| 10. | Air source | Max .7kg/ c IV |

Machine features

Structure and working principle: The liner coil is unwound and corrected, spread and flattened, static electricity is eliminated, and the winding and finishing operations are carried out.

Equipment noise: The noise level during the entire line operation is less than 85 decibels.

IV. Description

4. 1 Liner unwinding device

The design is carried out according to the process dimensions of the liner coil, and a set of standard safety clamps head are adopted, equipped with damping pneumatic clutches. Equipped with automatic deviation correction, it adopts domestic motors and reducers, and is automatically settable. The deviation corrector and edge control ensure that one side is neat. The maximum coil diameter is $\Phi 500$, and the deviation correction accuracy is $\pm 3\text{mm}$.

4.2. Liner flattening mechanism: It is composed of spreading rollers, power rollers, reversing rollers and static electricity removal devices.

4.3. Liner spreading device: Use the fabric guiding and spreading roller to flatten the two sides of the dust-removed cushion fabric.

4.5. Winding device:

Active winding, the winding square steel is: 38x38mm, adopts a set of standard safety clamps, variable frequency speed regulation

V. Electrical requirement

5. 1 A complete and perfect control system (including wires and cables, safety protection devices, etc.); When the distance between control lines such as control, signal, and bus and power lines such as power supply and power is over 100mm, separate lines should be laid out. The main power supply introduction of the electrical control cabinet should be equipped with a lightning protection filter device, and the protection level of the electrical cabinet is IP54.

5.2 PLC control, speed regulation by Siemens frequency converter

5.3 Pneumatic devices

The pneumatic control adopts FESTO pneumatic components, and some special points use SMC cylinders (if necessary, it needs to be negotiated and determined with the buyer). It is carried out by the pneumatic control console installed on each device bracket. The distribution system is equipped with connectors and flexible hoses with plugs for connection.

