

NV220C1

Winder



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The **NV220C1** large-size batch winder is a modern machine produced in cooperation of *SofCon* and *Strojtex*.



The **NV220C1** has a mechanism, which allows a fine and thrifty manipulation with the fabric. The cloth beam is turned by driving and glazing rolls and it winds up the fabric. The **NV220C1** governs the winding speed at such value, which maintains the tension of the fabric at fixed or programmed force. The guide beam uses two strain gauges for stretching force measuring. Used mechanism provides quality tensity of the fabric without the risk of fabric damage even if the fabric or the winder or the loom shakes. This new solution also helps at machine stop, in which case other winders damage fabric by machine parts mass

of inertia. The driving unit of the winder consists of an asynchronous driving unit, a frequency inverter and a gearbox.

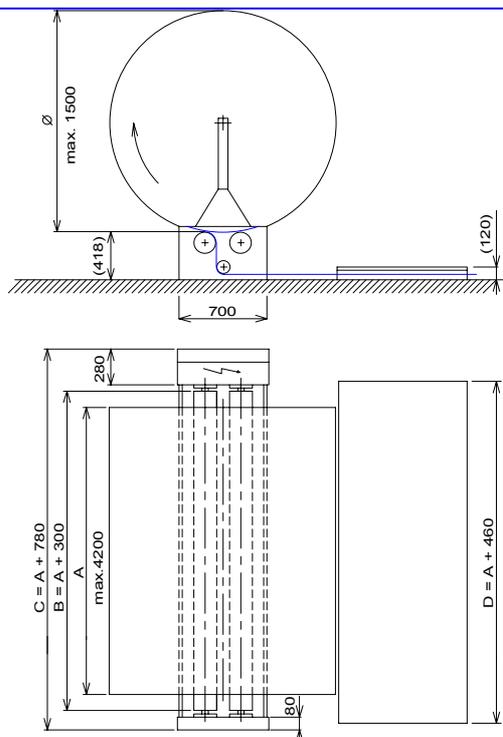
The winder is produced in various width at customer request.

The quick industrial control system KITV40 is used for winder control. The mastery is provided by the control panel TERM01 and set of buttons. They are situated on the top part of the switchboard.



The control system uses information from strain gauge sensors about the fabric tensile stress to control asynchronous driving unit by frequency inverter and it sets required tension of the fabric. The tension of the fabric can be programmed in ten steps, it means a customer can program different fabric stretching force for parts of winding. The control system contains ten programs for different sort of fabric at maximum. The control system can measure the fabric

tension as an average or maximum value from both strain gauges or as value from only left or only right strain gauge.



The **NV220C1** winder works with sophisticated algorithms, which ensure the precise fabric tense control. These algorithms ensure precise winding of fabric without damage of fabric as well at winding time, as at start and stop time.

After a required length of the fabric is wound or after a mistake is found, the winder can automatically send a signal for loom to stop it and the winder can stop too.

The **NV220C1** winder allows to process any kind of fabric in a high quality.

Technical parameters

Power supply:	230V/3A/0.5kW/50Hz
Control	24V DC
Winding speed	0,2 to 1,8 meter/min or 0,5 to 3,8 m/min or at customer request
Fabric width	from 1200 mm to 4200 mm at customer request
Cylinder width	Fabric width + approx. 200 mm
Machine width	Fabric width + approx. 600 mm
Max. diameter of the roll with the winding	1500 mm
Max. weight of the roll with the winding	1600 kg
Machine weight	Aprox. 450 kg
Strain gauges	two, on the left and right side of the transferring beam
Stretching force	from 2x50 to 2x750 N or at customer request
Tension Control	a) according to average of both tensiometers b) according to max. value of both tensiometers c) according to value of right or left tensiometer
Tension program	max.10 different stretching force values during one winding
Max. number of tension programs	10
Back step at winding stop	Possible
External control signals	start, stop, (stretch, release as option)
Program operation	czech or english version
Documentation	czech or english version