

Winders - NU 220 series

a new generation of winding machines



We will help you to wind produced fabrics



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The large-size batch winder is an auxiliary device for looms that enables continuous winding of the produced fabric to lengths of up to several kilometers.

The NV 220 series large-size batch winders are devices that form a new generation of winding machines developed by the Strojtex and Sofcon Company on the basis of many years of experience in this field. The winders are used for both common textiles and for fabrics made of fiberglass.

The mechanical part of the winder has been designed taking into consideration the high reliability and long service life of the machine and it enables fine and gentle manipulation with the fabric. The winder operates based on the principle of winding the fabric on a cloth beam using a glazing and stretching beam and the required parameters are ensured by an industrial control system. The system collects information on the fabric tension value from strain gauges and, based on these data, it controls the machine driving unit. The tension in the fabric can be programmed in ten steps that enable the user to enter different stretching forces for the individual stages of the winding process. The control system involves up to ten programs for different fabric types and it works using algorithms that ensure accurate regulation of fabric tension and production of an undamaged package both during the winding process and when the device is starting or coming to a stop. It is possible to couple the winder with central data collection where it is possible, e.g., to monitor the size of the package.

For demanding applications, a winder has been developed and put into practice that has two independently controlled driving units for the driving and glazing beams; it is equipped with a push-down device that enables weighing down of the package in a controlled and accurate way ensuring its highest quality.

TECHNICAL PARAMETERS:

Winding speed	0.2 to 4.5 m / min *)
Winder width	from 1500 mm to 4200 mm *)
Stretching force	50 to 1500 N *)
Package diameter	up to 1500 mm
Package weight	up to 2000 kg
Number of strain gauge sensors	2; on the left and right sides of the feeder beam *)
Beam spacing	280 mm *)
Regulation	average of the values from both strain gauges; maximum value from both strain gauges; value from the left or right strain gauge
Winding control	10 different forces during the entire winding process
Number of winding controls	10
Reverse run after a stop	Yes, adjustable

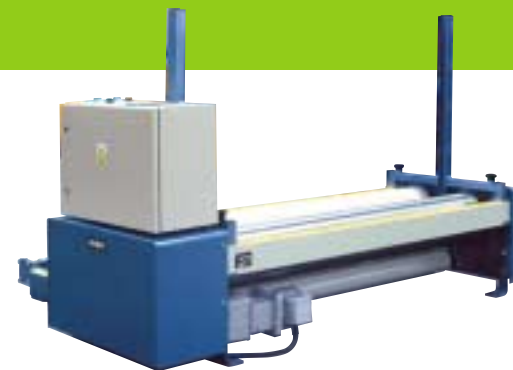
*) Or according to the customer's requirements.

WINDER VERSIONS:

NV220C1	Winder with one asynchronous driving unit.
NV220C2	Winder with two independent asynchronous driving units for the driving and glazing beams.
NV220P1	Winder with an actuating mechanism intended to be integrated into the loom.
NV220R1	Winder with an asynchronous driving unit intended to be integrated into the loom.

ACCESSORIES:

RZ	Distribution (changing) device – serves to distribute the fabric transversely.
PZ	Push-down device – serves to press the fabric being wound.
PZV	Perching device – serves to operate and visually inspect the fabric being wound.



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