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SPR/SYNCHRO Model 1100

NUMERICALLY CONTROLLED BIASCUTTING MACHINE

NUMERICALLY CONTROLLED BIASCUTTING MACHINE SPR/SYNCR0 Model 1100

The numerically controlled biascutting machine class SPR/SYNCR0 cuts automatically in bias the fabric seamed into tubular form with a tubesewing unit or a tubular fabric (in roll or flat folded) with diameter from 35 to 110 cm (13" $\frac{3}{4}$ to 43"). with a presettable bias-cutting angle (45° or a different angle)

The operator adjusts the bias cutting angle and enters in the machine touch screen panel the values of the tubular diameter and the biascutting angle then a numerical control system "master/slave" automatically synchronize the speed of the unwinding device with the cutting section of the machine for any cutting speed (adjustable with an inverter) This machine has been designed with the utmost attention to safety features to obtain, for the first time in the market, from **IMQ** (www.imq.it Italian Institute for Quality Trademarks) **the Certification of Conformity "CE" for standards 2006/42/EC (Ref. IMQ/353)**.

The technical file of the machine has been deposited by IMQ organization that has **certified the conformity to "CE" European Community Safety Standards**. This means that, while AMP PISANI issues the "CE" certification of the machine, **IMQ** (Independent organization) **confirms that the unit fulfils the requirements of the aforementioned directive**.

STANDARD DEVICES AND FEATURES

- Electromagnetic clutch to adjust the rewinding tension of the roll with a potentiometer and digital meter counter presettable on the touch screen panel
- Pneumatic opening of the two biascutting shafts with adjustment of the pressure on the fabric. Possibility to lock the shaft movement to avoid tension and safety stop micro-switch in case of closing of the two biascut shafts. Clockwise biascutting direction with angle adjustable from 38° to 52°
- Pneumatic adjustment of the pressure on both sides of the biascut fabric rewinding shaft and pneumatic cylinder to lift the fabric pressure roller on the biascut fabric.
- Pneumatic system to lift the biascut fabric rewinding shaft for easier loading/unloading operations.
- Expanding biascutting arm of the tubular fabric with air cushion for a perfect feeding of difficult fabrics (such as some satin fabric with electrostatic problems due to the friction with the shafts)
- Rotating disk feeding device in polyurethane foam to improve the feeding of the fabric along the external expanding arm
- AC adjustable frequency drive (inverter) to adjust the biascutting speed up to 60 Mt/min and photoelectric barrier for sudden stop of the machine in case of accidental intrusion in the rewinding area.
- PLC controlled machine with a separate safety PLC to control the safety devices and equipped with a complete message system to inform the operator of any possible alarm and to display instructions to restart the unit on a touch screen graphic panel.

DEVICES ON REQUESTS

- SPR/JERSEY Scroll shafts on the biascutting arms, recommended for knits
- SPR/FALD/O Horizontal unwinding device for flat folded fabrics.
- SPR/FALD/V Unwinding device for fabrics with rotary box inclined at 30°
- SPR/15SUP Extra for machine with biascutting angle from 15° to 45°

TECHNICAL FEATURES

- Installed power : 2,5 kW
- Voltage : 400V $\pm$ 5% 50Hz 3-phases or 220V 60Hz 3-phase
- Compressed air : 6 bar – 300 lt/h
- Rewinding shaft diameter : Standard 49 mm. From 32 to 75 mm on requests
- Roll dimensions : Tubular diameter.....from 35 to 110 cm
 - : Max tubular roll diameter40 cm – Kg. 50 max
 - : Max biascut fabric roll diameter...40 cm– Kg. 50 max
 - : Max biascut roll width 190 cm
- Biascutting speed : adjustable up to 60 Mt/min

