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SPR/SYNCR0150

NUMERICALLY CONTROLLED BIASCUTTING MACHINE

NUMERICALLY CONTROLLED BIASCUTTING M/C SPR/SYNCR0150

The numerically controlled biascutting machine class SPR/SYNCR0150 cuts automatically in bias the fabric seamed into tubular form with a GCT unit or tubular fabric (in roll or flat folded with extra device SPR/FALD150) with a preset bias-cutting angle with diameter from 35 to 150 cm (13” ¾ to 59”).

The operator adjusts the bias cutting angle and enters in the machine 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)

STANDARD DEVICES AND FEATURES

- Main unit rotating on a disk with railway on the central support of the biascutting shafts.
- Easy movement of the unit with pneumatic system to move downwards the wheels.
- Electromagnetic clutch to adjust with the highest accuracy the rewinding tension of the roll with a potentiometer
- Pneumatic opening of the two biascutting shafts and adjustment of the pressure on the fabric with possibility to lock the mechanism to eliminate any tension and safety stop micro-switch on case of closing of the two biascut shafts.
- Pneumatic adjustment of the pressure on both sides of the biascut fabric rewinding shaft.
- Pneumatic cylinder to lift the fabric pressure roller on the biascut fabric.
- Pneumatic system to lift the fabric rewinding shaft for easier loading/unloading operations.
- Expanding biascutting arm of the tubular fabric with air cushion for a better feeding of difficult fabrics and fan 0,4 kW to blow the air into the biascutting shafts
- Two rotating disk feeding device on both expanding shaft 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.
- Clockwise biascutting direction with angle adjustable from 38° to 52°

- Digital pre-settable meter counter with programmable stop with slowing down before reaching the programmed length and possibility to count the daily production of the unit
- Photoelectric barrier for sudden stop of the machine in case of accidental intrusion in the rewinding area of the machine.
- PLC controlled machine and message alarm features on the console.

DEVICES ON REQUESTS

- SPR/ JERSEY Rotary screws for expanding arms recommended for knitted fabrics
- SPR/FALD150 Unwinding device for fabrics with rotary box and adjustable inclination from 25° to 45°
- SPR/FTU Fan 2.2 kW to blow the air into the tubular
- SPR/L15 Extra price for biascutting angle from 15 to 52°
- SPR/S75 Extra price for biascutting shafts 52° to 78° with external blade support

TECHNICAL FEATURES

- Installed power : 4,5 kW
- Voltage : 400V ±5% 50Hz 3-phases
- Compressed air : 6 bar – 300 lt/h
- Rewinding shaft diameter : From 45 to 75 mm (specify at the order)
- Roll dimensions : Tubular diameter from 35 to 110 cm
 - : Max tubular roll diameter 40 cm
 - : Max biascut fabric roll diameter.. 45 cm
 - : Max biascut roll width 250 cm
 - : Max roll weight 70 Kg.
- Biascutting speed : adjustable up to 60 mt/min