

Maschinen GmbH

Fully Automatic Ribbon Spooling Machines

INTELLIGENT
RIBBON PROCESSING



Picture: BS 3 B with
3 winding positions

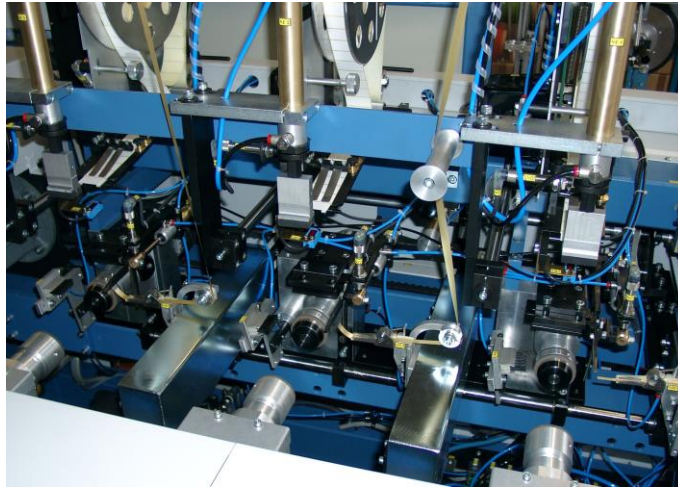
Fully Automatic Ribbon Spooling Machine BS3 B

JBF Ribbon Spooling Machines are fully automatic machines with 3, 6, 8, 10 or 12 winding positions, for ribbon 3 to 25 mm wide continuously laid on paper or plastic cores with side flanges. Ribbon running lengths are depending on the core sizes up to 2000 meters. Ribbon rolling without traversing is also possible for ribbons up to 40 mm (1,5") wide.

Highly sophisticated servo machine controls and technologies allow a variable parallel winding of the border and reverse points, resulting in an even wound and flat surface of the produced spool.

To obtain a constant ribbon tension during the winding process all material supply spools are driven and controlled individually. Optionally individual drive systems on every winding position of the winding machine and a direct connection to a high speed slitting machine is possible (machine type: BSEA)

Each winding position is equipped with a labelling device. Adhesive labels are provided from a carrier band during the winding process and picked up by the suction device of the labelling cylinder. The automatic supply of the label is controlled by an optical sensor.



Empty cores are supplied from a sorting vibration feeder and stored preorientated in the core magazine of the spooling machine. During the winding cycle empty cores are released out of the magazine and transported underneath each winding position with a cup conveyor. The previous winding cycle is finished, the finished spools are laid on a second set of cups on the same cup

conveyor. The cup conveyor indexes forward and empty cores are lifted into winding position. The winding mandrels clamp the empty cores between two friction discs. The ribbon guiding system moves towards the empty core and the ribbon is attached to the core with an adhesive label.

The winding process begins and the machine rolls or spools until the electronically preset

running length is reached. The machine stops and the scissors cut the ribbon.

The cut ribbon end is attached to the finished spool with an adhesive label. The finished spools are doffed off into the cup conveyor and a new cycle begins.

Additional Equipment:

- Running length control of each winding position.
- winding speed regulation for a constant ribbon tension during the complete winding cycle
- Driven and controlled creel with or without reserve connection possibility.
- Ribbon breakage control with machine stop.
- Automatic infeed of wound spools into fully automatic JBF packaging and labeling machines.
- Core infeed from left or right side of the machine.
- Multiple ribbons rolled or traverse wound on once core.

Production Data:

depending on the inside diameter of the core.
Cycle time for spools with 500 meters running length:
- approx. 100 seconds.

Technical Data:

Winding positions:	3 (BS 3B), 6 (BS 6B), 8 (BS 8), 10 (BS 10), 12 (BS 12)
Spool diameter:	max. 125 mm (5")
Traverse widths:	electronically adjustable 0 mm to max. 165 mm (6,5")
Mandrel speed:	max. 2000 r.p.m.
Winding speed:	max. 400 m/min
Winding length:	infinitely adjustable
Material supply:	cylindrical spools, max. 300 mm dia. , 450 mm long, or direct connection to a high speed slitting machine
Power consumption:	depending on the number of positions: 2,2 - 7,5 kW
Air consumption:	approx. 2,5 m ³ /h
Air pressure:	6,0 bar (85 psi)
Machine weight:	depending on the number of positions approx. 1200 kg (BS 3B) - 4000 kg (BS 12)
Space requirement:	depending on the number of positions and the machine layout

Subject to technical modification without notice.

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