

Maschinen GmbH

Automatic Hank Winding Machine TSA 2

INTELLIGENT
RIBBON PROCESSING



Automatic Hank Winding Machine TSA 2

Fully automatic machine for the hank winding and banding of ribbon and yarn

The yarn which is still clamped in the yarn guiding system from the previous winding cycle moves into the area of the winding table where the yarn is clamped.

The winding process starts and keeps running until the electronically preset running length is reached. The machine stops in zero-position. The yarn guiding system moves back.

The banding of the wound product is accomplished with an automatically supplied adhesive label. A suction device

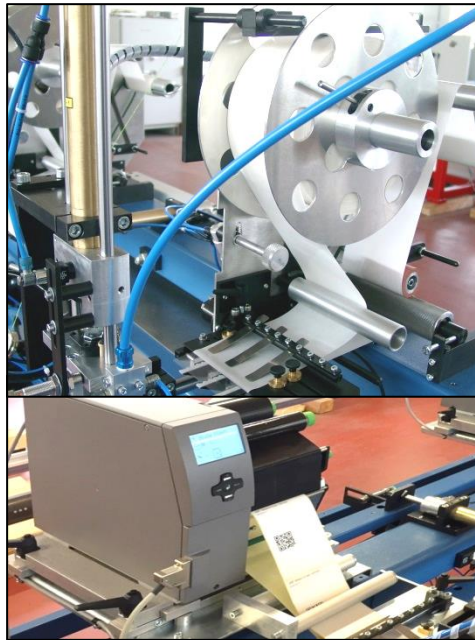
picks up the adhesive label from a carrier belt during the winding process. The labelling cylinder attaches one sticky side of the label to the cut yarn end. This guarantees a tight connection to the wound product.

Afterwards the label is formed around and finally glued to the wound product. After that process the yarn is cut by the scissors.

The banded product is pushed off the winding table and falls via guide plates into a container.



Winding mandrel



Roll-off devices for labels. On option:
Thermo-transfer printing systems



Touch panel

Additional Equipment:

- Automatic handling/doffing device to doff the hanks from the winding mandrel and lay it into a box or conveyor.
- Conveyor belt for finished products.
- Driven and controlled creel.
- Cycle counter with preset option.
- Defect sensing, machine-stop caused by defective yarn
- Hot cutting device to seal the cut ends
- Traversing device for yarn

Production Data:

Depending on yarn and winding length, approx. 12 – 16 hanks per minute (hank width 140 mm)

Technical Data:

(subject to technical modification without notice)

Winding heads:	2
Winding table revolutions:	max. 750 1/min
Winding speed:	max. 400 m / min
Ribbon widths:	max. 50 mm, further ribbon widths on request.
Dimensions of winding table:	100 – 165 mm wide, infinitely adjustable, other dimensions on request.
Winding length:	infinitely adjustable
Material supply:	cylindrical spools, max. 500 mm dia., 500 mm long, ribbon rolls or supplied out of boxes or from cones
Power consumption:	0,75 kW
Air consumption:	approx. 0,75 m ³ /h
Air pressure:	6,0 bar
Machine weight:	approx. 1000 kg
Space requirements:	approx. 4 m ²