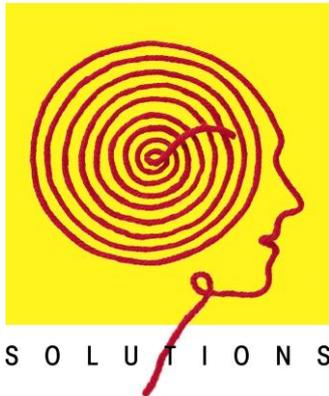


JBF

Maschinen GmbH

Fully Automatic Hank Winding Machine DO-1 / DO-2 / DO-3

INTELLIGENT
YARN PROCESSING



Picture: DO-3

Hank Winding Machine DO-1 / DO-2 / DO-3

The electronic controlled Hank Winding Machine DO 1 is processing cords/ropes automatically within a diameter from 2 to 14 mm. It is possible to produce hanks with a length 150 – 400 mm (inside length = distance of the winding hooks).

At the beginning of a cycle the material will be wound around both winding hooks to reduce the rope tension, affecting the pliers.

The winding process is turning counter clockwise. The number of revolutions for the body layer is adjustable at the touch panel. During the winding of the body layer the horizontal traversing (driven by a servo motor) is active. The horizontal traversing gives the rope loops a position side by side on the winding hooks.

The width of the horizontal traversing is adjustable, just as the speed of the winding process.

If the body layer has reached the number of set revolutions, the machine is preparing to start the belly layer. The transition from the body layer to the belly layer is done by the interaction of the horizontal traversing drive and the main drive. After this transition the body layer is fixed and it is possible to process the belly layer without loosening the body layer.

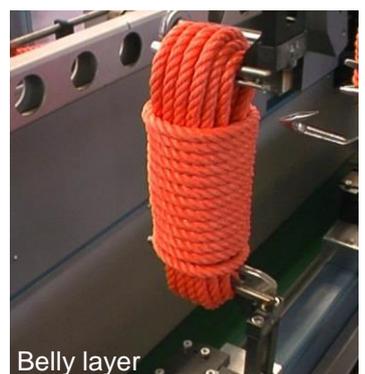
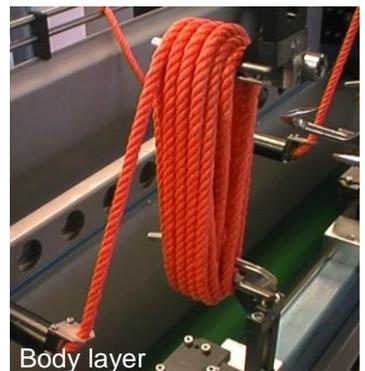
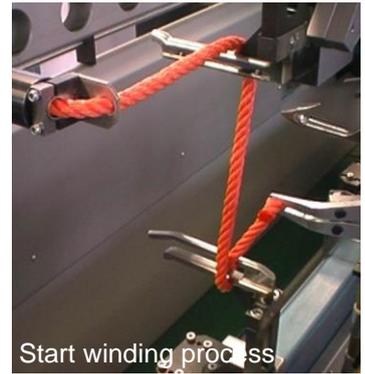
The belly layer is processed by the interaction of the main drive (vertical traversing) and the winding hook drive. During the turning of the winding hooks, the main drive moves along the hank upwards (= vertical traversing).

Beginning with the start position of the main drive the winding hooks are turning synchronously to the movement of the main drive until the stop position of the main drive is reached.

After setting the winding hook drive to the basic position the main drive is turning above the upper winding hook. In this position the inserting needle is coming out and is moving through the hank. The notch of the needle becomes visible on the other side of the hank.

The main drive is moving back to the cutting position and the needle is fixing the material.

The pliers are coming up to fix the material too. The cutting device (cold or hot cutting) is coming down and cuts the material between the two fix points. After that the needle pulls the rope end backwards through the hank. The machine doffs the hank and transports it out with the exit conveyor belt.



Options:

- creel
- cold cutting unit
- hot cutting unit to seal the end of the material
- conveyor belt

Technical Data:

Material diameter:	2 mm to 14 mm
Winding heads:	1 (DO-1), 2 (DO-2), 3 (DO-3)
Winding speed:	30 – 180 1/min
Winding length:	infinitely adjustable
Hank length:	150 mm – 400 mm
Material supply:	rolling supply of rope spools overhead pulling from the center from coreless rope rings with a driven creel running against the twist direction of the rope material

Subject to technical modification without notice

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