

SmarTakeUp

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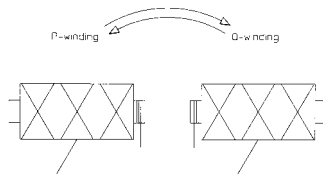
MULTI-PURPOSE TAKE-UP WINDER
Individually driven and controlled per deck



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SmarTakeUp: Take-up winder, individually driven and controlled per deck.

- Multi-purpose take-up winder designed to operate in line with multiple end continuous yarn processing machines, which supply separate yarn bundles with several ends.
- Very compact and space saving design, without compromising the accessibility for the operators or technicians.
- The number of spindles per installation can vary according to the number of processing lines and the number of ends per processing line: for instance 24 spindles for 4 ends, 36 spindles for 6 ends or 48 spindles for 8 ends. The minimum number of spindles is 12, with a spindle pitch of 550 mm.
- Each machine has, in standard execution, three decks for a maximum package diameter of 410 millimeter. Common drive for all winding units per deck by a separate motor with inverter per deck.
- Freely adjustable take-up speeds per deck up to 750 m/min, with programmable jump speed, increasing the winding speed by 10 up to 30 %. The effective winding speed is in function of the yarn specifications (count, material, number of ends and others) and the angle of winding.
- Standard P-winding. Optional P- and Q-winding selectable just by changing a user parameter.



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- Common automatic doffing of all the packages per deck when the pre-set yarn length is reached. The complete doffing cycle only takes 15 seconds. Each magazine holds 6 empty tubes.
- Length programmable tag-ending tail at the beginning of each new package. The tag-ending tail is parallel wound under the yarn layers and can easily be pulled out. Winding onto cylindrical or conical packages, standard traverse is 10 inch.
- Yarn guiding through linear guiding system with separate motor and drive. Random winding with freely adjustable winding angle. Electronic anti-ribbon system.
- Vibration damper per spindle to prevent ovalisation of the packages. Positive and equal take-off of each yarn bundle from the corresponding processing line by an open-roll per deck, driven by a separate motor.
- Open and closed loop yarn tension compensation system.



- Individually driven conveyor belts with electronic photocell to evacuate the full packages to the end of the machine.

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- The machine is equipped with a touch screen as operator interface, but the same functionality is available through a standard web-browser, allowing the supervisor to monitor the winder and its production remotely.
- Electronic yarn detection per end in front of each winding unit stopping the complete deck immediately when a yarn end is missing.
- Special surface protection on all parts which are in contact with the yarn in order to avoid yarn damage during the splitting and winding process.
- The number of yarn ends on each deck can easily be limited by switching off yarn detectors on the touch screen.
- Low maintenance cost by the modular design, elimination of belts and easy access of the active components.
- On demand, a machine without automatic doffing can be supplied. Automatic doffing can be retrofitted at all times.

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Creels:

For multiple end supply, sturdy creels carrying the packages horizontally, with per end a spare package for tag-ending purposes, can be supplied.

Technical specifications of the creel :

- Two package holders per end.
- Mechanical yarn tensioner per end, with easy threading in of the yarn.
- The tensioner is specially designed to keep the yarn fully controlled during the operation.
- Electronic yarn detector per end with quick response time. Each detector can be switched off to allow the processing of less yarn ends.
- Reversing points of the yarn are equipped with rollers on bearings, to insure a yarn path without the risk of damage to the yarn.
- Intermediate plates or bars can be foreseen to prevent the balloons touching each other during unwinding.
- For special applications, specially adapted solutions can be provided.

Technical data:

- Yarn count: very wide range, as well spun as filament yarns
- Type of winding: random, angle electronically adjustable
- Traverse: 254 mm or 10 inch
- Package form: cylindrical, standard on tubes diameter 73 x 290 mm. Conical packages and other tube sizes possible.
- Automatic doffing: per spindle, commonly driven per deck
- Magazine per spindle: contains 6 empty tubes
- Maximum package diameter : 410 mm
- Linear winding speed: up to 750 m/min.
- Angle of winding: freely adjustable between 13° and 21°
- Spindle gauge: 550 mm
- Dimensions per section of 24 spindles: height 1.900 mm – length 5.600 mm – width 1.675 mm

Electrical data:

- Electrical supply: 3 x 400 V + neutral + PE – 50 or 60 Hz
- Electrical consumption: maximum 35 kVA

Compressed air:

- For good and long lasting function of the air cylinders, valves and connections, supply of clean and dry air is necessary.
- Connection valve : ½ "G

All technical details, descriptions, illustrations, dimensions and other particulars in this pamphlet are given in good faith, and can be subject to change without notice

