

“AFA” AUTOMATIC WINDING MACHINE

AUTOMATIC WINDING OF TAPES AND STRAPS INTO FLAT PACKAGES

- This extremely versatile machine is engineered to wind a variety of medium weight, stiff tapes and ribbons as well as very light elastic ribbons via two adjustable pins without the aid of any central support element.
- The machine work cycle is completely automatic. All the operations are performed by the machine therefore, during the winding operations, there is no need for any operator intervention at all.
- The positive forward-feed unit driven by a 0,75kW motor and the synchronisation compensator device serve to take up the tapes from containers positioned up to 30÷40m away. This system enables the machine to maintain a constant tape winding tension, meaning that this machine is more powerful, much speedier and is provided with considerable length measuring accuracy. The minimum detection weight by the compensator device amounts to 30grams. This can be increased up to 125grams.
- The linear wrapping speed can be adjusted from 40 to 400m/min.
- In the event of tangles or knots forming in the tape, a monitoring device stops the machine immediately, to prevent damages from occurring both to the product and to the machine.
- The length measurement of the winding cycle is set in number of revolutions, even if the exact length measurement is given by the pin distance and by the tape thickness. Nevertheless, the real length measurement of each package is guaranteed by a “measuring wheel” set with acceptable tolerance data. If the machine exceeds said tolerance data entries, the machine will stop due to pin adjustment error.
- A counter unit is provided for setting the machine to stop once the number of set packages, selectable from 1 to 9999, has been reached.
- The ribbon or tape cutting operations are provided by way of a long-life, top-notch quality scissor-blade. Ribbons woven with iron and/or brass wire or other material inserts can be cut without any problem. Steel or stainless steel wires are not recommended.
- The electronic keypad enables entry of all the winding parameters and display of all the alarm messages that may possibly come up on screen, making relative operation and maintenance extremely simple.
- Process automation is provided via PLC controls with an operator panel displaying the various messages and commands for safe and smooth system operation. The overall control and monitoring functions of the winding tension options enables the machine to satisfy virtually all the requirements by a very large selection of tapes and ribbons.

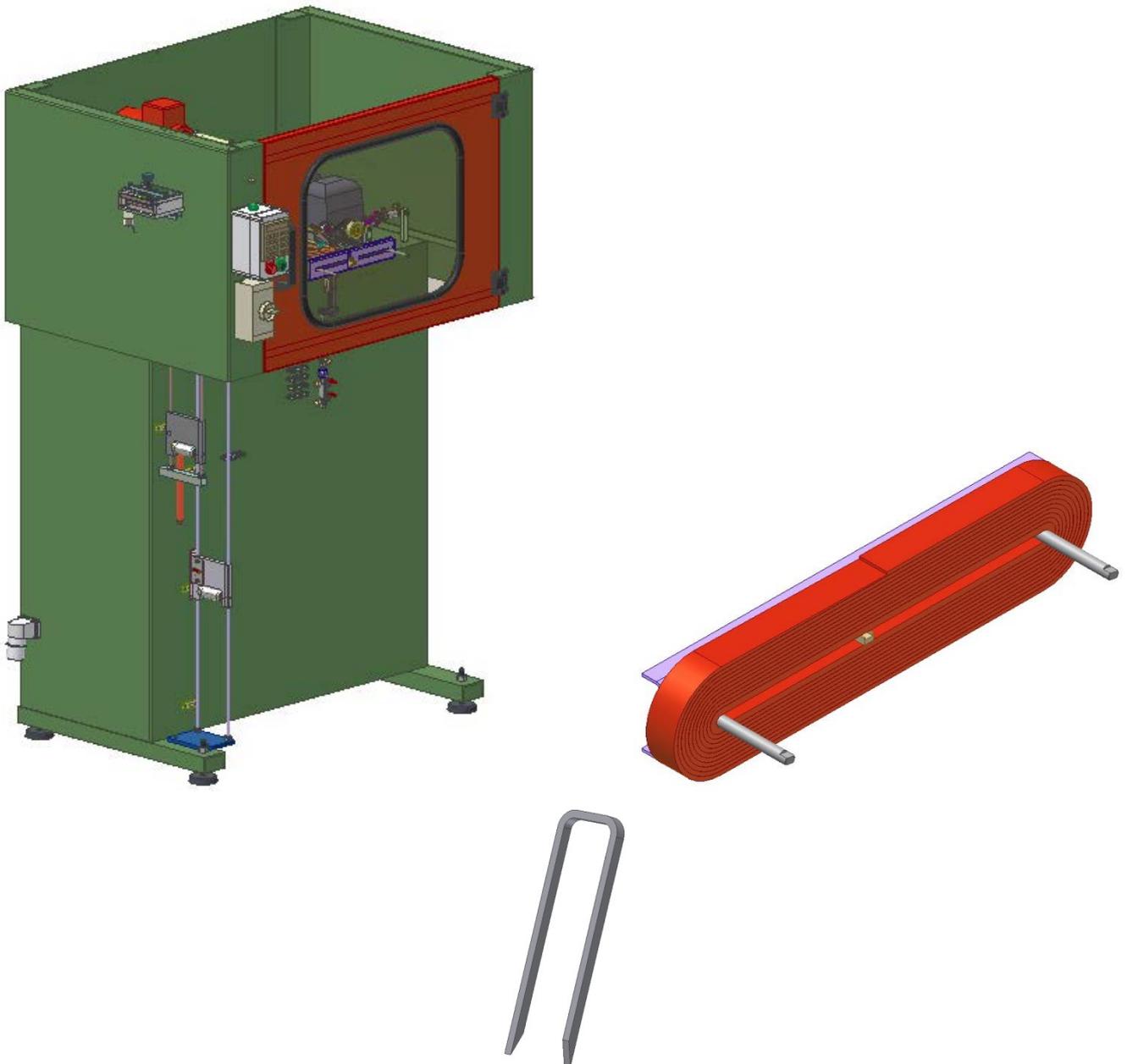
CHARACTERISTICS OF THE PACKAGES

MAXIMUM TAPE WIDTH	6÷70 mm
DISTANCE BETWEEN THE WINDING PINS	63÷275 mm

PACKAGE SEALING DEVICES

➤ DBAFA P4 00 - DBAFA P8 00 "STAPLER UNIT"

The pneumatic stapler unit serves to seal the packages with a staple, at the end of the roll winding operations. Stapler units are available with staples 4mm long with a 16mm prong-depth (0,9mm thick) and 8mm long with a 16mm prong-depth (1mm thick). We furthermore have the capability of supplying metal staples with very sharp, divergent ends in order to avoid damaging the ribbon or the tape.



OVERALL DIMENSIONS

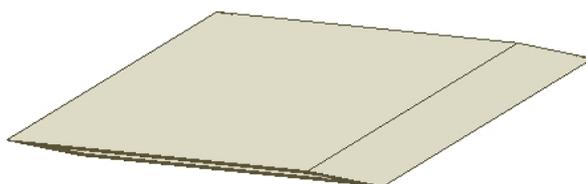
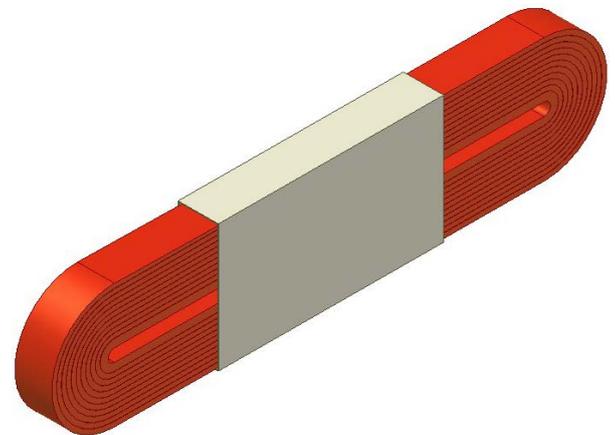
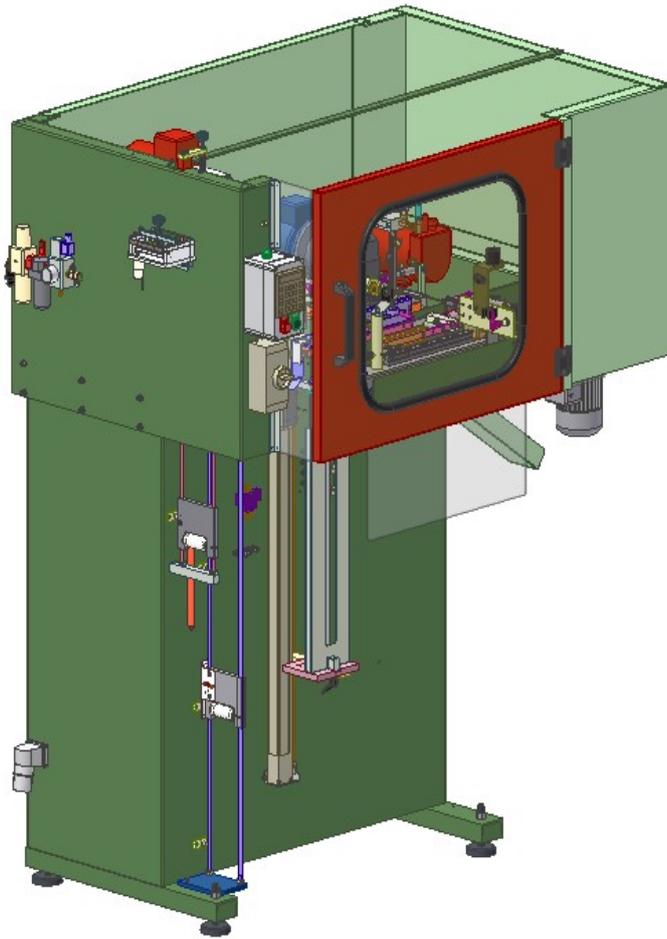
mm 1200 x 900 x height 1850

NET WEIGHT

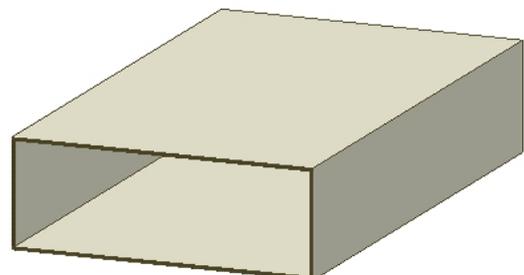
400 kg

➤ **DBAFA SCAT 00** “CARDBOARD WRAPPER BAND”

This optional device provides for package sealing by inserting the wound tape pack into a cardboard wrapper band. Without the use of neither metal staples or adhesive stickers (i.e. without damaging the product), a plier-tool picks up the wound tape pack and, whilst the machine is starting up another winding cycle, said pack is inserted into the open cardboard wrapper band, previously retrieved from the appropriate wrapper loader unit. The flat cardboard wrapper loader unit can hold a total number of pieces stacked up to a 580mm height.



Closed cardboard wrapper band



Open cardboard wrapper band

OVERALL DIMENSIONS

mm 1580 x 1100 x height 1850

NET WEIGHT

520 kg

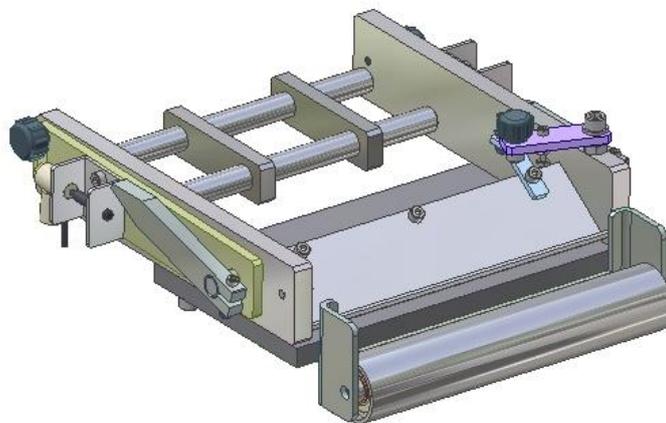
OPTIONAL DEVICES

➤ **DBAFA ROT 00** "ROLL UNWINDER DEVICE"

The roll unwinder device is constituted by a sloped plane. It can carry rolls having a maximum 600mm diameter. This option sets starts the rolls turning. It is therefore only suitable for stiff and rigid tapes.

➤ **DBUSA DIF1 100** "DEFECT CONTROL DEVICE"

This option serves to prevent that any possible ribbon joints, coils or other defects are included into the finished packs. After the maximum tape or ribbon length has been processed, the machine will stop.



Via the additional "DBUSA DIF2" device, it is also possible to control the minimum tape thickness.

Minimum detectable thickness = 0,5mm

TECHNICAL FEATURES

POWER SUPPLY VOLTAGE	2x230V+T 50÷60Hz 1,5kW
COMPRESSED AIR SUPPLY REQUIRED	7÷10 bar - 200 Nl per minute
MAXIMUM WINDING SPEED	600 rpm
HOURLY PRODUCTION OUTPUT (5 metre tape length)	620 pieces/hour

The features described above may vary and must be confirmed based on your products.