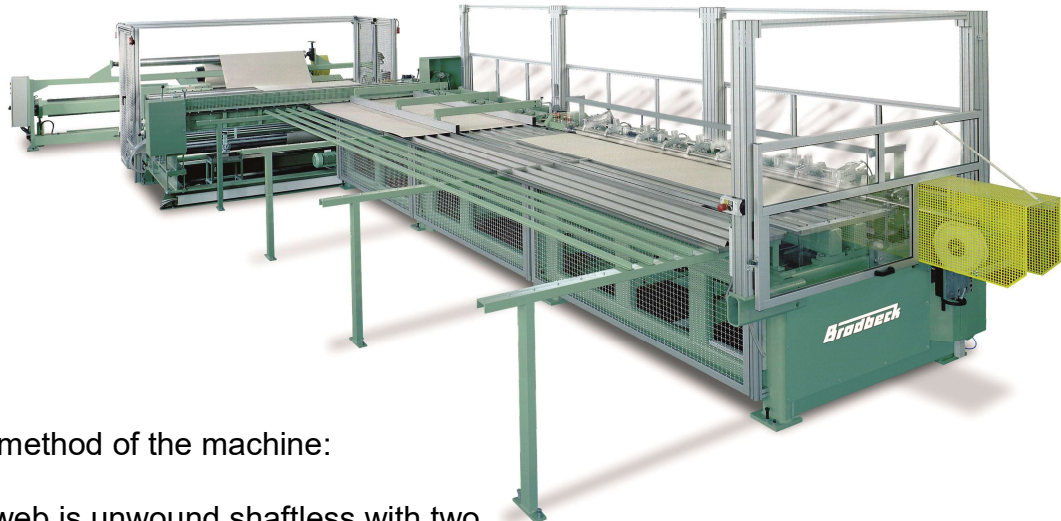


Convolute Winder

PAW 16-2200

for production of convolute wound paper cores.



➤ Working method of the machine:

The paper web is unwound shaftless with two hydraulically displaceable lifting arms.

Integrated paper reel brake for adjusting the web tension. The outside diameter of the reel will be controlled with an ultrasonic sensor.

Optionally there are an inside and outside bevelling device available for wedge-shaped grinding of the tube. The final seam closes perfectly to the tube.

The glue is applied onto the paper web through glue roller or jet gluing device. Thereby silicate, dextrin or casein can be used.

Servo driven feed rolls for the paper web. The parent length simply is programmed on the operating panel and is then accordingly cut off with a cross cutting device.

A sheet orientation device guarantees rectangular feeding of the paper sheet. Afterwards the paper sheet is transported by a needle bar to the winding mandrel.

The winding mandrel is driven by a servo drive. The number of revolutions can be entered freely on the control terminal.

Pneumatic adjustment of the pressure bar. The pressure can be adjusted on the manometers precisely.

Protective covers with safety switches are covering all movable parts of the machine and saving from any injuries.

Technical details:

Tube inner diameter	approx.	25 - 76 mm
special design	approx.	18 mm
Programmable tube length	approx.	800 – 2.200 mm
Paper reel width		
min.	approx.	700 mm
max.	approx.	1.600 mm
Paper reel diameter max.	approx.	1.500 mm
Machine speed	approx.	3 – 25 tubes/min
recommended speed	approx.	22 tubes/min
Electrical installation		400 Volt, 50 Hz 3 phase current with N and PE
Main drive		
with servo drive		7,5 kW
Servo driven carriage		15 kW
Servo driven advance of paper web		10 kW
Servo driven advance of winding mandrel		10 kW
Standard painting		
Machine	reseda green structure	RAL 6011
Net weight		
without unwinding device	approx.	6.600 kg

Additional features:

Winding mandrel hard chrome plated
for other tube diameters.

Shaftless Unwinding device

with reel brake for continuous unwinding of the paper web.

Consisting of:

- Guide bed in welded construction with two hydraulic adjustable lifting arms.
- The left lift arm is fixed, the right lift arm can be adjusted to the paper reel width.
- Manually operated web edge positioning for correct positioning of the paper web to the winding spindle.
- Hydraulic aggregate for stroke mechanism.
- Disc brake to adjust the web tension.
- Electrical and hydraulic control.
- Inclusive cones for admission of one paper reel.

Outside bevelling device with motor 4 kW

the outside of the paper web is grinded to form the ending tube.
With noise protection hood.

Inside bevelling device with motor 1,75 kW

the inside of the paper web is grinded to form the beginning tube.
With noise protection hood.

This device is required when working with thick cardboard.

Vacuum dust collector

to take away the dust caused by the grinding device.

Consisting of:

- Ventilator 0,75 kW
- Pre-separator and dust collecting bags
- Div. Flexible rubber tubes with connectors

Glue application unit for border gluing

To applicate another type of glue (e.g. casein) onto one or both borders of the paper web.

As a result, the seam of the inner tube is better glued.

Execution on one or both sides possible.

Sprinkling device for apron tubes with electric pump 0,37 kW

The width of the apron is not glued but moistere in water.

alternatively:

Dripping basin for apron tubes

The glue on the exterior side of the paper web is removed in a water basin.

Laminating device for self adhesive tape

positioned in 90-degree angle to the paper web.

Cutting unit with mandrel and supporting rollers

to cut the winded tubes in adjusted lengths.

Consisting of:

- 3 knife holders with circular knife 100 x 25 x 2 mm
- Knife drive with electro motor 1,1 kW
- 2 supporting rollers
- Cutting mandrel for on ID of tubes

Further knife holders with knife and cutting mandres available.

An optional installed cutting unit reduces the machine speed.