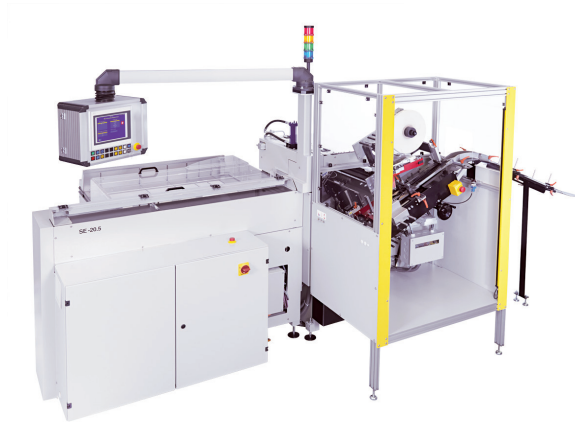


# Atlas 1200 - Fact Sheet New: with option „XS-Label“



The finishing process of cut to stack labels is always a challenge, especially when very small sizes have to be cut. This is exactly one of the big strengths of the Atlas 1200 machine. Unlike to the cutting process with regular guillotines, the strips are always properly guided and held down during the entire cutting and banding process.

Because the process is not only extremely efficient, but also very much controlled and carried out with highest precision, the ATLAS-1200 is used by security printers for the production of tax stamps. With the option „XS-Label“ even smallest tax stamps, down to a minimum size of 11 x 30mm, can be cut and banded in compliance with highest production reliability.

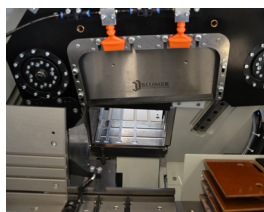
Beer-label producers appreciate the fact that the Atlas-1200 can be equipped with the option for the banding process of maxi packs.

For the finishing process of high volume square cut labels in the medium- to large size format range, the highest performance can be achieved with the ATLAS-40.

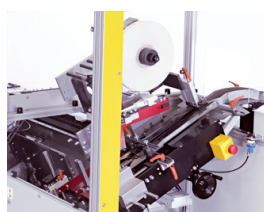
## Atlas 1200, Technical data



Strip infeed



Cross-Cutting



Banding

### Strip sizes

Strip length min./max.	350 / 1115 mm
Strip width min./max.	40 / 215 mm
with option XS-Label	30 / 205 mm

### Label sizes

Precut label size min.	25 x 40 mm
with option XS-Label	11 x 30 mm
Precut label size max.	170 x 215 mm
with option XS-Label	170 x 205 mm
Stack height min./max.	40 / 120 mm
with option XS-Label	35 / 100 mm
Intermediate trim cut	3 - 40 mm
Trim cut	3 - 40 mm
Rest cut	25 - 100 mm
Machine strokes per minute	12 - 20

### Bandwidth

	25mm standard (banding down to a minimum strip width / label length of 40 mm possible)
	15 mm optional
with option XS-Label	15 mm included (banding down to a minimum strip width / label length of 30 mm possible)

### Machine control

PLC (B+R)

### Electrical connection

400V 3.N.PE 6.7 kVA

### Air consumption incl. 30% reserve

6 bar dry air 22 m<sup>3</sup>/h / connection 1/2"

### Weight net/gross approx.

2200 / 2600 kg

## ATLAS 1200- Fact Sheet **Technical description**

---

### Additional technical specification to Fact Sheet ATLAS-1200

#### Description of individual machine components

##### Overall floorplan / design of machine

- Very compact design, requiring a minimum of floor space (approx. required space: 4 x 4m). Very well proven technology based on many years of experience. Mechanical parts produced in Blumer factory in Switzerland

##### LS-215 loading-, in-feed- and buffer table

- Surface of table: aluminum anodized. Very proven surface which doesn't leave and sliding marks on the material
- Partially with grooves in order to ensure that even very light materials with very light bottom cardboard or without cardboard can be transported safely.
- Single strip-stack loading process
- Multiple strip-stack loading process
- Machine can be placed in-line with any existing guillotine (paper cutting machine), regardless of the respective machine brand, model or age.
- Loading possible from 3 sides: the left, the right and from the back of the machine
- Automatic gripper system available (Optional)
- Automatic buffer table with 2 independently controlled pushers in order to ensure that the machine can be loaded and re-loaded at any time, regardless of the status of the cutting process.
- Motor driven strip-stack in-feed, speed and ramps adjustable. This pusher 1 accumulates the strips in a sensor controlled area
- Motor driven pusher 2 is equipped with a liftable bracing to ensure a continuous strip-in-feed. This pusher brings the strip batch to the separating station
- In this station the strips get clearly separated by moving (opening) a section of the table. A rake takes the separated strip and pushes it into the strip pusher device. Everything is controlled by sensors.
- The strip pusher (saddle drive) is driven by a servo motor, speed, acceleration- and deceleration ramps etc. are adjustable
- The strip pusher is equipped with pneumatic controlled down-hold bars which can easily be changed depending on the width of the strip stack.
- The pressure of the down-hold can be adjusted and gets automatically reduced during the cutting process. (pressure range: 0.1 – 6 bar)
- The angle of the saddle pushers (lamellas) can be mechanically adjusted.
- The area of the strip-in-feed is equipped with adjustable air nozzles to ensure a smooth and reliable in-feed of the strip-stacks, regardless of the material and the weight of the strips.

### **ST-215 Cutting and Stack Feeder device**

- In order to bring the stack properly into position in the cutting device, the strip-stack gets pushed against a pneumatic rod. This rod is also used for space cuts.
- The rocker table is equipped with an adjustable front-pusher. Knocking intervals can be adjusted depending on the material.
- The pneumatic driven rocker table is equipped with a pneumatic hammer in order to knock the cut stack into the appropriate position on the rocker.
- Easy adjustable rocker table for various sizes.
- After the cutting process the stack gets held in position with a pneumatic down-hold
- The entire process is surveyed by sensors.
- A pneumatic side-pusher holds the strip in position during the cutting process and the forward movement
- Adjustable air nozzles from the bottom as well as from the side make sure that the cutting waste falls properly into the waste bin.
- Adjustable hydraulic clamp
- Clamp height adjustable above the strip height. Clamp goes automatically in a higher position during the strip change process
- Hydraulic cutting device
- High precision linear guided cutting knife
- Swing cut for highest accuracy
- Cutting knives available with various cutting angles (depending on material)
- User-friendly mechanical adjustable knife set-up
- Special frame for fast and secure knife change
- Air Nozzles from the top for waste removal
- Automatic pressure surveillance
- The stack feeder device is driven by a servo motor. Speed and ramps are adjustable depending on the material
- The stack feeder gets adjusted automatically depending on the stack width.
- Angel of pusher lamellas can easily be adjusted (mechanical)
- The transportation of the stack into the banding device is supported by an adjustable air-pillow in order to ensure that the individual labels stay in position and in order to keep them flat.

### **PB-215.T Banding device**

- Pneumatic down-hold of the stacks gets moved toward the banding device
- Pneumatic pushers to move the stacks through the banding device
- Thermal sealing system
- Sealing temperature and time adjustable in order to achieve highest flexibility concerning the use of various banding materials
- Bandwidth 15mm (optional or with XS option) or 25mm (standard)
- PE-coated paperband or Polyesterband. Combination paper / plastic is possible; other materials can be processed upon request.
- The bottom cardboard can be sealed onto the banding material in order to achieve sturdy stacks and that the cardboard will be removed together with the band. Very tight banding possible.
- Motor driven band unwinding
- Signal if roll has to be replaced
- V-shaped sealing heads, pneumatic

- Pneumatic band cutting
- Holdback latches for banded stacks
- Mechanical adjustable rails to guide the stacks properly through the banding device
- Downhold of the stacks in order to generate tight banding.
- Stack slide with mechanical adjustable brushes to bring the banded stacks well guided onto a packaging table

### **Control**

- B&R Automation PC 2100
- One central operator panel mounted on rotating arm for easy access during operation and set-up.
- Various menu levels (for example: overview, faults, warnings, help, service level, operator level, etc.)
- Touch screen with 10.4" monitor
- In case of emergency stop, all actuators including hydraulic go in power off mode.
- Programs can be stored on USB stick
- Remote assistant

### **Actually used components** (subject to changes)

- Motors and control B&R
- Pneumatic: Festo
- Valve batteries: Aventics
- Sensors: Wenglor and Baumer
- Mechanical parts manufactured in Blumer factory in Switzerland
- Entire machine design by Blumer Maschinenbau AG in Switzerland

Oberneunforn, Switzerland, June, 2019