

# Fully-automatic measuring and winding machine

SAM-250

for measuring and winding of elastic and non-elastic tapes, ribbons, braids, cords, trimmings and laces



## SAM-250

### Concept

The SAM-250 is a micro-processor controlled, fully-automatic measuring and winding machine for elastic and non-elastic articles, in which settings specific to the material are mainly entered on the keyboard and can be stored as a record for later repetition. It is therefore easy to adjust and thus also very well suited for smaller making-up batches.

The machine requires an operational effort of only 25 %. One operator can therefore operate up to 4 machines or do additional work at the same time. In this way, a short amortization period is guaranteed.

### Standard Equipment

- Disentangling device for non-elastic articles
- Tape inspector "Censor"
- Over tension shut off
- Optical length measuring device
- Mechanical tape brake
- Tape loop generator
- Motor driven adjustment tape guide
- 2 quick change tape guides
- Tape cutting and end fixing device
- Traverse drive for bobbins (SAM250 RS)
- Labeling device
- Magazine for empty rolls and spools
- Spool/roll unloading device

### Options

- Driven unwinding unit
- Independent feeder units
- Integrated feeder device for elastic articles
- Selectable longitudinal/cross labeling
- Pinning device
- Staple device for cords and ribbons
- Electronically controlled brake for tape tension
- Cellophaning device for rolls or spools
- Paper strip under last tape layer
- Paper strip under cellophane
- Edge traversing device (SAM 250 R)
- Quality selection device for rolls not corresponding to the programmed standards (quality assurance)
- Magazine extension for cores/cartridge bobbins
- Motor driven magazine change
- Cartridge bobbin/spool separation in magazine
- Vibration magazine for cores/cartridge bobbins
- Hot cutting device
- Antistatic unit
- Flange labeling unit with or without thermo transfer printer
- Integrated photo-optical tape inspection

### Important features

- High winding performance of up to 400 m/min
- If required, also combinable for bobbin, roll and cartridge bobbin winding
- Can be used flexibly for a wide range of articles and formats
- Easy to set and change with programmable and retrievable product parameters
- Precise measurement of length, also with highly elastic articles
- Perfect bobbin and roll formation thanks to constant fabric tension and precise guide elements
- Lateral layering of spool with fixed tape guide for constant tension
- Micro-processor control for constant, reproducible winding conditions



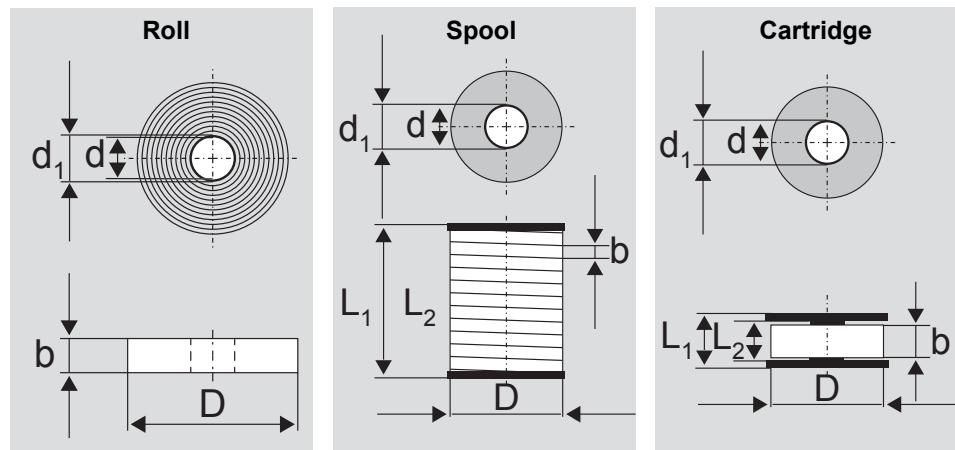
Paper strip under last tape layer and cellophaning device upper last tape layer



Longitudinal and cross labeling

**Technical data**

**Measurements of rolls, spools and cartridges**



**Dimensions**

D mm	Ø 65 – 250	Ø 52 – 250	Ø 65 – 250
L <sub>1</sub> mm	–	15 – 275	15 – 105
L <sub>2</sub> mm (min.)	–	12*	12*
b mm (tape width)	10 – 100	0,5 – 25	10 – 100
d <sub>1</sub> mm	15 – 100	12 – 60	15 – 100
d mm	12 – 95	10 – 56	12 – 95

\*Spools and cartridges with L<sub>2</sub> < 30 mm must have a dynamical concentricity of the flanges

**Productivity at 100% efficiency**

elastic tape	spool	100 m	80 spool/h	=	8000 m/h
non-elastic tape	spool	100 m	110 spool/h	=	11000 m/h
deco. tape	cartridge	3 m	600 cartridge/h	=	1800 m/h

set-up time for tape change	3 – 5 min
set-up time for format change	10 – 15 min

**Connected load**

Rated output	2,5 kW
Mains connection	3 x 400 V – 50/60 Hz
Compressed air	6 bar, consumption approx. 80 litres/min

**Dimensions**

Width	2150 mm
Depth	1450 mm
Height	2100 mm

**Machine types**

SAM-250 R	for rolls and cartridges only
SAM-250 RS	for rolls, spools and cartridges

# The Jakob Müller Group

Müller researches, develops, engineers and manufactures top technology – from individual subsystems to entire system solutions, including program-

ming, warping, weaving, knitting, dyeing and finishing and making-up of narrow fabrics, webbings, labels and knitted goods.

## Application areas

- Clothing
- Underwear
- Sports/leisure wear
- Footwear
- Furniture/household textiles
- Medicine
- Transport
- Conveyors and drives
- Electronics
- Building electronics
- Field technology

## Narrow fabric weaving and make-up

- Product range for producing all narrow fabrics
- Complete machine range for warp patterning with dobby or jacquard shedding
- All-embracing system solutions:
  - warp
  - pattern creation
  - narrow-fabric weaving
  - dyeing and finishing
  - photo-optics quality inspection
  - winding, spooling, rolling and layering
  - Making-up narrow technical textiles

## Narrow-fabric warp knitting with weft insertion

- Complete machine range for:
  - knitted goods from very simple to extremely complex designs
  - virtually unlimited repeat lengths
- Patterning versatility and unexcelled flexibility
  - proven Müller compound needle
  - technology for runproof products
- Top output capacities:
  - greater knitting width
  - top running speeds

## Label weaving

- Complete system solutions developed specially for label production:
  - pattern creation
  - label sampling
  - label weaving
  - label cutting and folding
- Systems for labels with woven or cut edges
- Machines with highest speeds and minimum space requirement (needle, rapier and air technology)
- Product range to satisfy all qualitative and quantitative requirements

## Your benefits as Müller customer

- Technology from one source where the emphasis has been on nothing else than narrow fabric manufacturing equipment for more than 110 years.
- Collaboration with a supplier employing over 1000 people exclusively in the production of tape and narrow fabric machinery.
- System solutions for your entire production – all from one source, one partner.
- Machines of robust, compact design, engineered to embody the latest technological advances.
- Low-maintenance systems with long life and good resale value.
- Worldwide sales and service network with more than 70 bases. We are always close to you.
- The Jakob Müller Institute of Narrow Fabrics is a centre for basic and advanced training, disseminating sound know-how on Müller products, as well as the design and production of textile products and industrial management.

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## Fascination of Ribbons and Narrow Fabrics Innovation in Machinery

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