

# Fully automatic measuring and rolling machine

RAM-500 / RAM-500KH

for making-up elastic and non-elastic narrow fabrics and webbings or hook and loop fastener and adhesion closure tapes on centres



## RAM-500 / RAM-500KH

### Concept

The RAM-500 is a microprocessor-controlled, fully automatic rolling machine for elastic and non-elastic tapes and webbings. Settings for the particular articles are mainly entered on the control terminal and stored as a data set for subsequent repetition.

It is easily set up and readjusted, making it ideally suited for making-up smaller lots. The fabric end is fixed by adhesive labels.

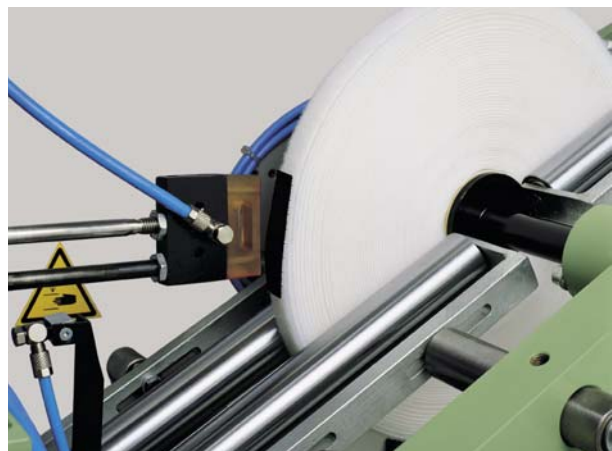
The machine requires about 25% supervision, so that one operator can attend around 4 machines at once or perform other tasks. This ensures rapid amortization.

### RAM-500KH for hoop and loop fastener tapes

This machine is intended specially for requirements when making-up hook and loop fastener tapes and adhesion closure tapes. Its concept corresponds to that of the RAM-500, and the above-listed advantages are all featured in the RAM-500KH. A special feature is the fixing of the fabric end by hook and loop and adhesion tape. The supervision needed is about 30% or somewhat more than for a RAM-500 machine, so that one operator can look after about three machines at the same time.

### Advantages

- Clearly arranged, neat and low-maintenance design
- High performance through motion sequence with optimized times and motions
- High operator convenience, easy setting and re-adjusting when changing tape width, format and winding length thanks to storable production parameters
- Precision make-up lengths by exactly functioning measuring system
- Perfect roll formation through repeatable tape tension and precise guidance
- Constant, repeatable winding speed
- Pneumatically actuated and interchangeable centre mountings



Tape end fixing on the RAM-500KH

General view RAM-500KH



**Options for RAM-500**

- Disentangling and transporting
- Unwinding drive
- Measuring for elastic tapes
- Elastically controlled tape brake for reproducible winding tension
- Needle device for tape end fixing
- Clip device for tape end fixing
- Shaker/conveyor magazine for permanent centre feed, with magazine extension if necessary
- More powerful gear motor for higher tape tensions
- Selecting device for rolls not satisfying the programmed quality requirements

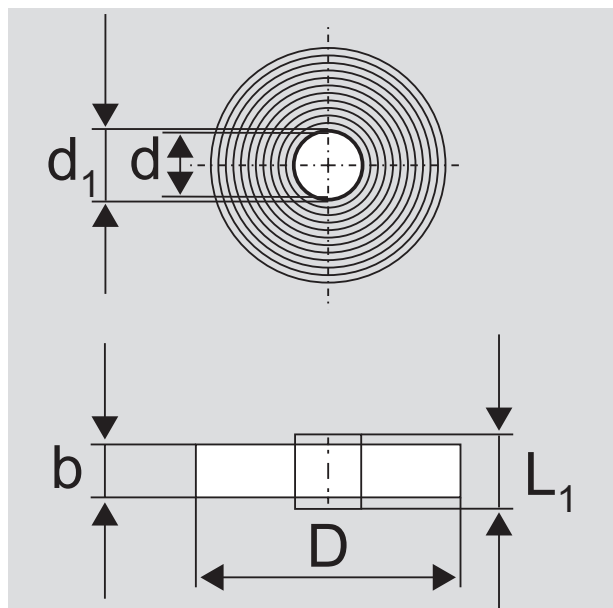
**Options for RAM-500KH**

- Disentangling and transport VTR
- Unwinding drive ABL
- Electrical tape tension regulation for low winding tensions
- Shaker/conveyor magazine for permanent centre feed, with magazine extension if necessary
- Selecting device



RAM-500 option: needle device for tape end fixing

**Roll dimensions**



d = inside centre diameter		12 – 95 mm
d <sub>1</sub> = outside centre diameter		25 – 100 mm
D = roll diameter	RAM500	90 – 500 mm
	RAM500KH	90 – 400 mm
b = tape width		15 – 100 mm
L <sub>1</sub> = centre length		15 – 100 mm

**Technical data**

**Winding speed**

up to 400 m/min (RAM-500KH up to 250 m/min)

**Connected loads**

Power consumption	3.5 kW
Power supply	3x 400 V - 50/60 Hz
Compressed air	6 bar, consumption approx. 90 litres/min

**Dimensions**

Width		1900 mm
Depth		1250 mm
Height	RAM-500 top of hood	2150 mm
	RAM-500KH	2650 mm

# 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, 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.

Copyright© 1995 by Jakob Müller AG, Frick  
CH-5070 Frick Switzerland

Printed in Switzerland. All rights reserved.

No part of this publication may be reproduced by any means, nor translated, nor transmitted into a machine language without the written permission of the publisher.

This leaflet contains photos and technical data for information only, without contractual engagement.

## Fascination of Ribbons and Narrow Fabrics Innovation in Machinery

Rep.:

**Jakob Müller AG, Frick**  
CH-5070 Frick Switzerland  
Tel +41 62 8655 111  
Fax +41 62 8655 777  
[www.mueller-frick.com](http://www.mueller-frick.com)

