

RM02 RIBBON INSERTING MACHINE

Efficient Solution for your book production



RM02 is an automatic machine for the laying of the ribbon bookmark. It is possible to put it in line to your others machines, between the Three-knives Trimmer and the Rounding and Backing machine or as independent unity. In both cases you will have available a rapid change of format.

Putting your books or notebooks in the store feeder, the automatic system will carry them toward the input direction, therefore the machine opens the book, to the cut of the ribbon bookmark, gluing the head of it and insert the back part inside the book automatically; all in automatic mode with a continuous

movement and with a high speed and quality of the process. Many options are available under customer needs as the Book Block Feeder Unit, The Gluing system integrated with Hot Melt Glue Tank, different exit under the Machine layout.



For the on-demand production and high speed quality books



Shortest make-ready times

Automated.
User-friendly control.
Data entry during running production.

Highest product quality

Automatic book Feeding by book block unit and transport to the operation

Advanced machine design

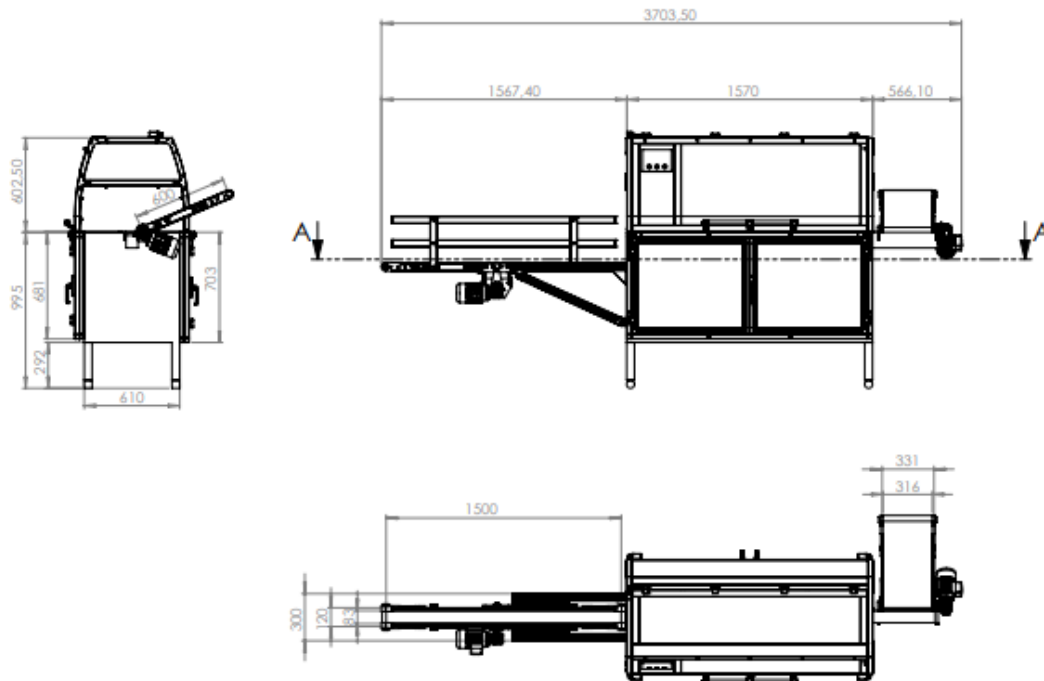
Very Ergonomic machine
design High energy efficiency,
flexibility
Modular Solution with glue system integrated or not

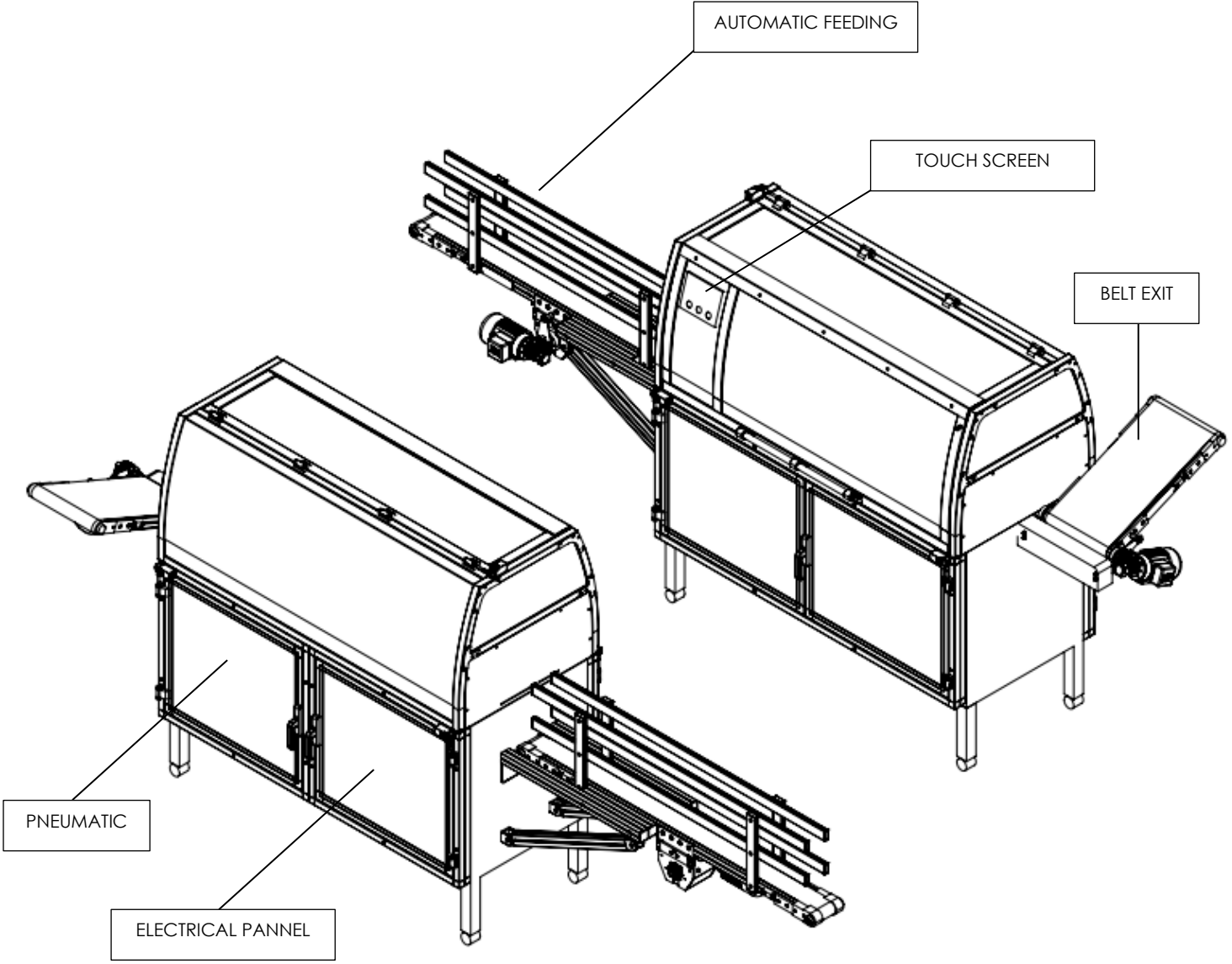
Certificated Products for high quality and safety

TÜV Inter Cert brand

TÜV Inter Cert, a third-party body accredited according to ISO / IEC 17065: 2012, certifies innumerable products, declaring their conformity to the applicable technical specifications. Type Approval Certificate, the Certificates issued for the type tests required by the relevant technical regulations, have a duration of 3 years. In cases where the certification is associated with an inspection of the production process, annually, the use of the TÜV Inter Cert safety mark is granted to be affixed to the product and related documentation and a Product Certificate (5 years) is issued.

The TÜV Inter Cert safety mark is not a substitute or a prerequisite for the CE marking to be affixed.

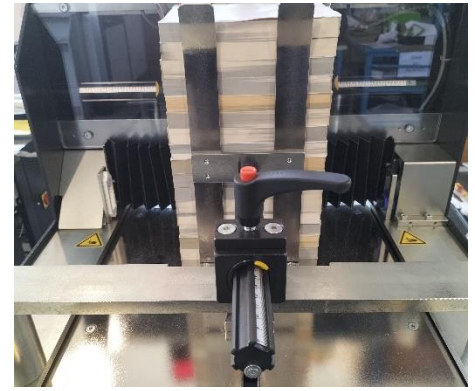
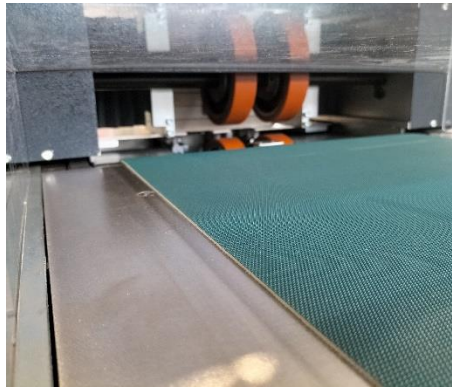
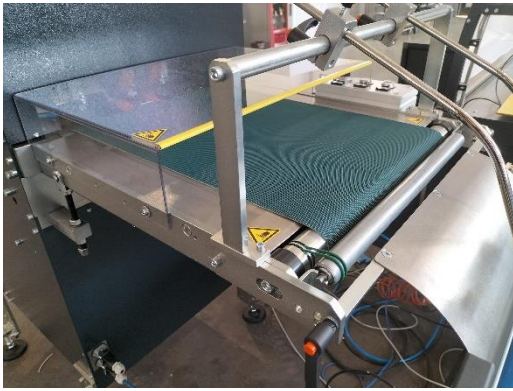




Automation with a shortest changeover

RM02 data entry is designed for the operator for measures and up- loads the product sizes, control the machine via the touch screen and speed up every operation of data entry required. With handy measuring tray the operator will measure, book block and case precisely taken over while the previous book is still being produced. A click on the button and the measured data are transferred to all the machines in line. The touch screen with its self-explanatory graphical symbols makes it easy for the operator to select and carry out the necessary adjustments. For repeat orders all formerly saved jobs can be recalled any time with all their machine settings. The operator also sees the status of the integrated machines on the screen. All control is made by PLC DELTA last generation that permit a remote control by Modem or the data check by the last generation of smart phone.





1 Block Block Feeder

Small-sized and easy to use book block feeder without auto-load system. It is designed to feed hardcover ribbon inserting machines, casing-in lines, perfect binding lines, shrink wrapping machines, book presses, etc. The maximum speed is 8500 cycles per hour. The length of the outgoing conveyor belt meets customer's request.

Main features

Steel structure.

Steel chromium-plated feeder plate to provide gentle handling of products.

Suction system with 8 suction cups for thin products and different setting options.

Interchangeable chromium-plated steel pushing devices which adapt to different thicknesses of products.

Speed switch: o Single: the BOOKFEEDER is used as a standalone unit and speed is adjusted only through a potentiometer. o Tandem: the BOOKFEEDER is used to feed another machine. Speed is set automatically depending on the main machine by means of a tachometer dynamo.

Rollers extracting products are endowed with rubber wheels.

The upper roller can be disabled to prevent any possible damage to the product spine.

Reclining outgoing conveyor belt with slide and runners to deliver products to the next machine.

PLC power box and inverter

Technical data

Max size 415 (B) x 315 (A) mm

Min size 110 (B) x 80 (A) mm

Outgoing stacked pile height Max 350 mm

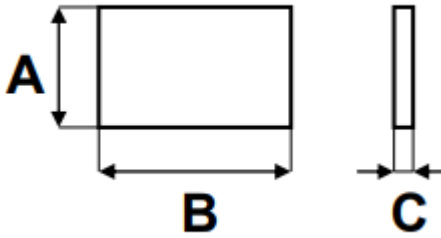
Thickness (C) Max 80 mm/min 2 mm

Speed Max 8500 cycles/hour

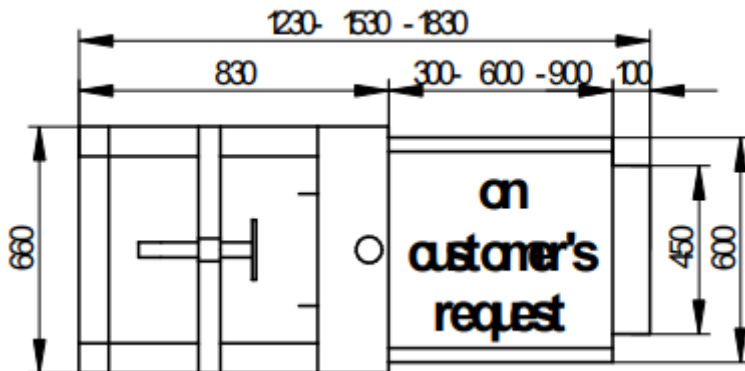
Power 1.25 kW

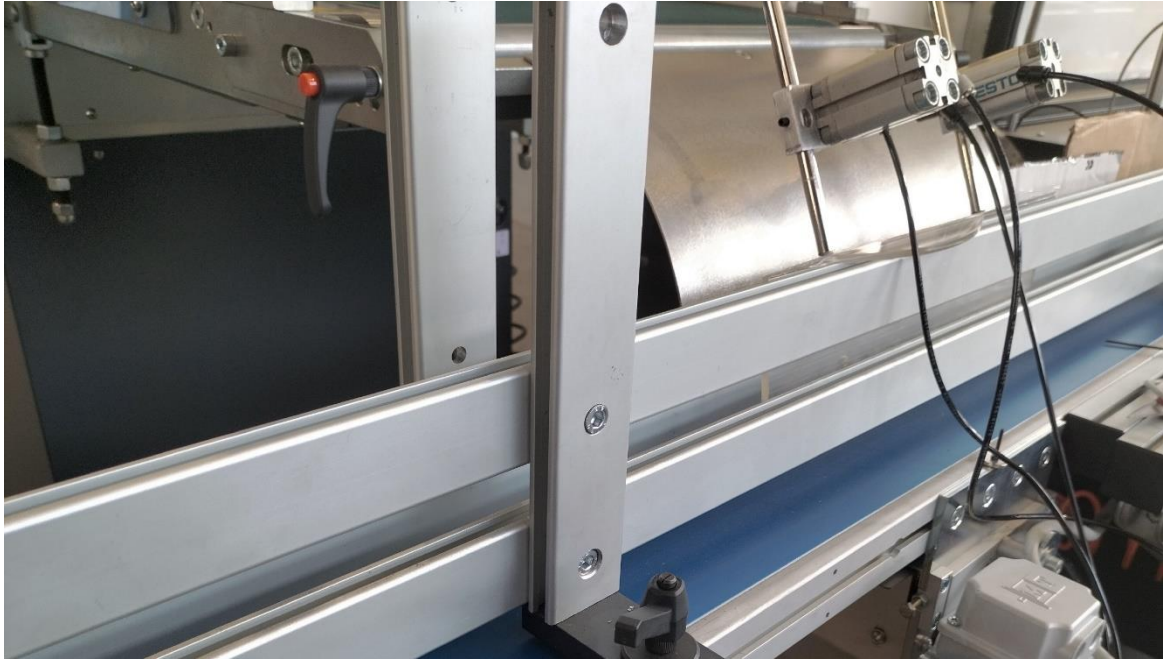
Air requirements 3 nl/cycle - 6 Bar

Net weight about 380 kg



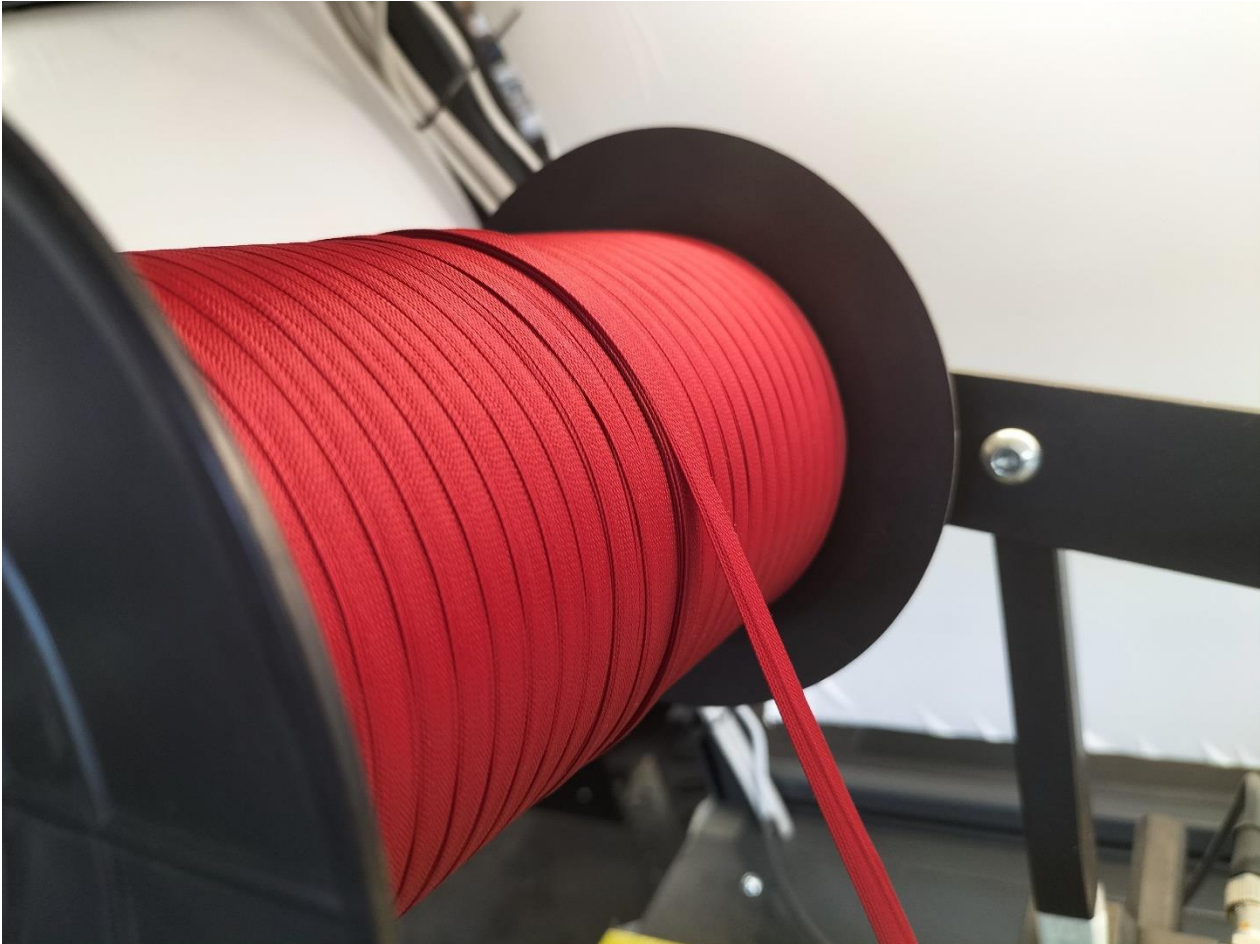
LAYOUT





2 Feeding Channel

The operator enters the required BOOK BLOCK to the BOOKFEEDER or directly in the channel if the machine is working in line with the Three Knife Trimmer directly to the Casing in. Channel is long around 1.550 mm and works putting all books attached one by one without any distance. This will help a lot the operator if he loads it by hand do not make confusion during the operations. The distance between one book to the other one is kept automatically from the machine. It is important to understand that the distance between one book and the other one represents the measure of the ribbon at the end of the book so every time will be necessary keep it longer or shorter will be important to be able to control the distance between one book to the other one. This distance needs to remain stable and exactly the same for warranty one standard in the measure fixed from the operator. For Italian standard the machine usually works with a minimum dimension of 50 mm to 7,5 mm.



3 Ribbon Spool

RM02 works with one or two Spools of ribbons and the width of that is variable. The ribbon is infeed inside the blade and go through the book inserting it in the position fixed from the operator.



4 Ribbon Cutting

After inserting the ribbon at right measure need to be cut in line and this operation can be done as cold or as thermal cutting. The choice to do that depends usually from the type of the material customer is using. As well the cutting shape can be variable as flat or to 45°, depends from machine configuration.

5 Ribbon gluing (Option)

The ribbon gluing device intakes the ribbon during standstill. With the further transport of the book block the ribbon is precisely allocated and fixed on the glued book block. This is an option on the machine because can be the end user get already a glue system integrated on his casing in line. When this is no there or when customer want to use it off line in that case RM02 can be equipped with a system that can permit to do it easier and faster. The complete system consists in:

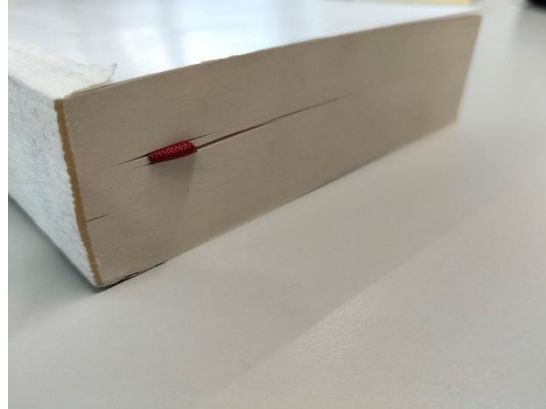
1. Glue Tank Hotmelt (Fig. 01)
2. High pressure TUBE (Fig.02)
3. Special Nozzle High speed (Fig. 3)



The setting of gluing on the machine is made directly from touch screen and this in relation to the quantity, To the position respect to the book spine, and frequency of application.

6 Turning inside the ribbon

After the gluing another important operation is turned inside the ribbon on the end of the book. This because can be that during the casing in operation some troubles or damage can come when the ribbon is out of book. Going through, the gluing unit can cause a crash or can dirty with the cold glue. To go over all these possible troubles, is important much more when you work in line fix it inside. In our RM02 this operation is automatic and the setting is done from the operator under his needs.

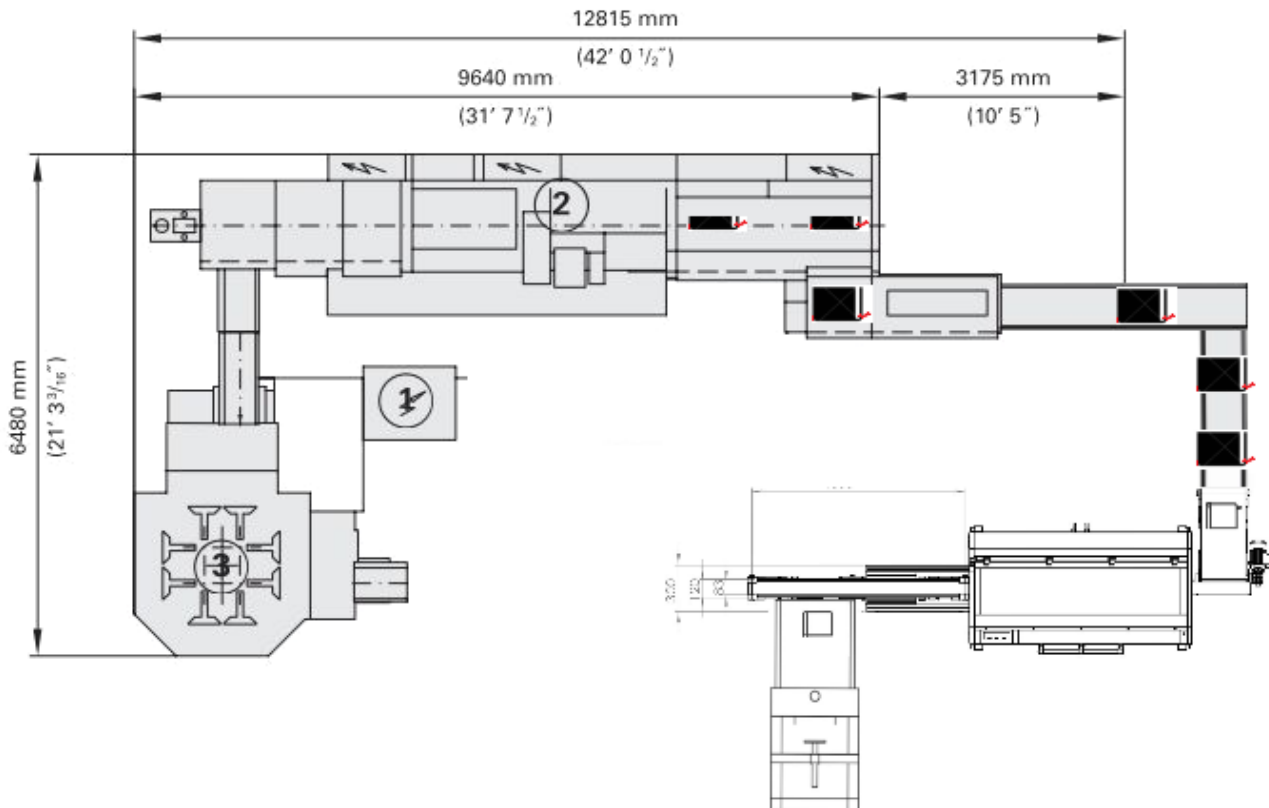


9 Book block exit

As the traditional way the book is automatically put out from the machine and go in the direction fixed from the layout decided together from PRONTOTEC and End user, The standard one see the exit on Left.

10 Advantage of our System

Traditional way to glue and fix the Ribbon is what keep RM02 the perfect solution as well You are using a traditional casing in from KOLBUS or Muller Martini, or an off line solution semi-automatic. This operation that keeps a long manually effort can be right now sorted in an easy way and automatic. PRONTOTEC can offer as well the semi-automatic machine that we recognize as RM01, a table top machine from small cost and great quality. This is suitable only for the off line Job and when customer make short run. (Layout as example of ribbon insert in line with MM Diamant MC30.



Technical Data Sheet

Features:

Automatic book block feeder **(option)**
Automatic book channel
Automatic distance insert
Automatic Ribbon inserting
Automatic Ribbon cutting
Automatic gluing head nozzle (Hotmelt)
(option)
Automatic book delivery
Automatic size adjustments
Automatic Ribbon turning
Modem **(option)**

Book Size

Min 70x100
Max 240x350

Thikness

Min 3 mm
Max 70 mm

Mechanical Speed

2.500 Book per hour (without gluing system)

Floor space required 3.700 mm x 1.200 (final measure depends from configuration)

PRONTOTEC GmbH

Per

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