

## Specifications

### gamma502-HO automatic

Articel: M-175-07-A-B10



### Introduction

The gamma502-HO automatic is used to optimize performance and reduce the workload of machine operators on Horizon production machines. The printed products are counted and checked, pressed and stacked with precise edges. The resulting stacks are either banded with paper or output loose.

The gamma is technically based on the more powerful delta series, but is characterized by the fact that it is very compact and the investment for the user is significantly lower. However, the option of both banded and unbanded design is only possible with the gamma. In addition to the delta series, the gamma is the only delivery system that completely automates the manual activities behind production machines in print finishing. Developed in close cooperation with Horizon, the machine is characterized by an almost completely automated set-up function and integration into the control and electronics of the Horizon production machine.

A world first is the pressing station, which adjusts to a different product thickness in just a few seconds. In this version of the gamma, the side joggers are also automatically set to the correct format. Manual intervention during set-up is no longer necessary.

Another key feature of this gamma is the ability to process DIN A4 landscape formats. This means that this delivery can process all products that are produced on a Horizon Stitchliner. It is therefore no longer necessary to replace the delivery with the standard shingled belt.

## Function

The delivery is used to transfer printed products from the production machine in front. The gamma can process a maximum of two up production. The feeder with pressing station is height-adjustable. It is equipped with adjustable lower and upper round belts. The round belts can be used to convey the products at an angle of up to 5°. A photocell counter is located in the round belt area, which counts the products and also measures the product length. A mechanical diverter and a pair of press rollers are located downstream of the round belt area

After the press rollers, the products are transferred to the transport area to the collecting chute. The printed products are conveyed here either individually (single sheets) or overlapping as a shingled stream. These two different types of transport allow both very thick products and very fast production runs to be processed.

The products are stacked horizontally in the collection chute. For optimum stack formation, the gamma502 has motorized side vibrators and back vibrators, and the gamma502 is equipped with a stack level compensation system for stacking heavy products.

After reaching the entered batch quantity, or due to an external signal (option), or due to a barcode reader (option), the product flow is separated and the stack is dispensed. The stack can be dispensed either loose or banded.

The finished stacks are placed on an output table with a wide conveyor belt for removal.

## Benefits

- o Almost completely automated set-up process. Großer Formatbereich (bis DIN-A4 Querformat Landscape)
  - o Elimination of manual work to be carried out by an operator:
  - o Manual removal of folded products or brochures is no longer necessary
  - o Manual pushing and pressing of folded products is no longer necessary
  - o Manual banding of the product stacks is no longer necessary.
  - o The operator takes an aligned, pressed and banded stack with one hand and places it on a pallet or in a carton. This saves the operator an enormous amount of time.
  - o The large buffer area of 150 cm enables the operator to set down the product stacks at long intervals. This gives the operator long, continuous free spaces that can be used for other activities.
  - o Thanks to the banding in the shaft, almost all folded and stapled products can be processed without slipping.



With the gamma, product stacks can be formed and output banded (standard equipment) or additionally unbanded (optional)

### Machine equipment

Basic equipment :

- o Equipment for processing 2 product streams
- o Height-adjustable feeder (delivery infeed)
- o Format measurement with waste ejection
- o Automatic pressing station with a pair of pressing rollers
- o Transport of products in single sheets for particularly thick or sensitive products
- o Transport of products in a shingled stream for particularly fast production runs
- o Robust palamides banding system with electrical impulse sealing process (EIS)
- o Output of the product stacks onto an output conveyor. Alternative sideshift for left or right output.
- o Equipped with 50mm wide banding
- o Processing of PE banding possible
- o Equipment for product thickness 0,2-8mm

## Used for machine / product

- Folder Horizon
- Stitchliner Horizon

## Characteristics

- The two lift table arms and the banding devices are 220 mm apart. Depending on the format, this can lead to the band not sitting exactly in the middle.
- The minimum pack height is limited by the stack's own weight (only when banded).
- Round belts must be set up manually

## Technical data

### Dimensions

(\*Possible restrictions, extensions or changes due to optional equipment)

		gamma502HO-automatic
Length with output conveyor		4110mm
Width / with platform		1.050mm / 1.955mm
Height		2.300mm
Pallet dimensions with output conveyor		

### Formats and stacking heights standard machine

(\*Possible restrictions, extensions or changes due to optional equipment)

		gamma502HO-automatic
Infeed width min. with 50mm band*		125mm
Infeed width max with 1 product stream*		590mm

Infeed width max. with 1 product stream in automatic mode		305mm
Infeed width max with 2 product streams*		220mm
Infeed length min.		95mm
Infeed length max.		310mm
Minimum stacking height		5mm
Maximum stacking height		100mm

#### Performance and speed

(\*Possible restrictions, extensions or changes due to optional equipment)

		gamma502HO-automatic
Product transfer speed		25m/min. - 205m/min.
Cycle time with banding		6,0 seconds
Cycle time with out banding		5,0 seconds

#### Presstation

(\*Möglicherweise Einschränkungen, Erweiterungen oder Änderungen durch optionale Ausstattungen)

		gamma502HO-automatic
∅ Pressing rollers		100mm
Press pressure main press rollers		1.000kg
Minimum product thickness *		0,2mm
Maximum product thickness*		8mm

#### Energy

(\*Possible restrictions, extensions or changes due to optional equipment)

		gamma502HO-automatic
Power supply		16Amp. / 6KW

Average power consumption during production		2,0kwh
Compressed air supply		6 bar, filtered and dried air
Average compressed air consumption in production*		50l/min.

#### Interface feed

(\*Possible restrictions, extensions or changes due to optional equipment)

		gamma502HO-automatic
Infeed height min.*		680mm
Infeed height max.*		1.240mm
Clear width between the press rollers		590mm

#### Package output interfaces

(\*Possible restrictions, extensions or changes due to optional equipment)

		gamma502HO-automatic
Output height*		845mm
Length of standard output belt*		1.500mm
Clear width output table		625mm

Floor plan / Measurements

