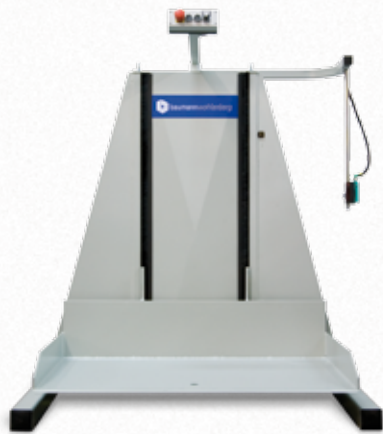




baumannwohlenberg

# HANDLING EQUIPMENT

Made in Germany – Choose the Original







## BSH

Pile Hoists with platform. The automated functions relieve the operator's physical strain while increasing the efficiency of the high-speed cutter.

### Features

- Piles are lifted and lowered hydraulically
- A double chain guarantees the highest possible safety
- The platform has a bevelled front-edge so that even large formats can easily be loaded onto the platform (loading with a pallet truck is possible)
- An adjustable photo-cell verifies constantly that the top of the pile remains at a working-height
- Casters for mobility

### Advantages

- Increase in productivity
- Decrease or elimination of injuries due to lifting
- Precise restacking

### Option

- With adjustable angle stop for unloading (●)

### Technical Data

	BSH 2-450	BSH 3-650	BSH 5-1200
Platform [mm]	650 x 900	785 x 1150	990 x 1350
Loading capacity [kg]	450	650	1200
Lifting height [mm]	1000	1000	1000

	BSH 6-1200	BSH 6-1600	BSH 7-2000	BSH 10-3000
Platform	1190 x 1500	1185 x 1500	1235 x 1700	1570 x 2120
Loading cap.	1200	1600	2000	3000
Lifting height	1000	1000	1000	1000



## STR

For left- and right-hand lay – for aligning and jogging of printed sheets; ideal for smaller tasks, easy to operate.

### Features

- Jogging system with adjustable unbalanced weights
- The table's tilting angle is infinitely variable
- A dividing board allows simultaneous jogging of two reams (optional)
- Mobile with castors

### Advantages

- Solid construction
- Machine runs smoothly and quietly
- Intensive jogging

### Technical Data

	STR 0	STR 00	STR 1
Format [mm]	450 x 450	450 x 650	560 x 820
Height min./max. [mm]	700/870	700/870	700/870

	STR 4
Format [mm]	740 x 1080
Height min./max. [mm]	700/870





### BSB 60°

The 60° jogger is a model with an extrem tilt position for difficult to jog material.

#### Features

- The table is designed with a stainless steel air table with the new micro air nozzles.
- Side flap with pneumatic tilt
- Tiltable left or right
- Stepless adjustment of the tilt position up to a maximum of 60°
- Variable jogging intensity
- Extra strong vibration engine

#### Option

- Second pneumatic side flap

#### Technical Data

	BSB 60°
Format [mm]	780 x 1070
Max. ream height [mm]	160

Special sizes on request available



### BSB e

Reliable jogging system with purely manual positioning.

#### Features

- Very smooth surface, micro-perforated air-table-surface
- Strong jogging motor for a quick and precise alignment of the reams
- Extreme inclination for right- and left lay, stepless adjustment
- Easy manual operation of the two side gauges
- Selector switch for the table air
- Selector switch for the vibrating motor
- No compressed air required
- Sturdy 3 pillar construction
- Low maintenance
- No set-up times
- Maximises energy savings

#### Technical Data

	BSB e
Format [mm]	550 x 770
Max. ream height [mm]	120





## BSB

All Automatic Joggers consist of a stable support, in which the table's up and down movements are precisely guided (no cables are used for stabilization). The jogging table automatically moves into its inclined jogging position and back to the working height.

### Features

- The table of the automatic jogger is designed with a stainless steel air table
- Side flap with manual tilt
- Tiltable both left and right
- Variable jogging intensity

### Options

- Side flap with pneumatic tilt
- Manually attachable sheet divider for smaller sheets
- Count by weight scale mounted under the automatic jogger

### Advantages

- Latest technology
- Very comfortable operation
- Increase in productivity

### Technical Data

	BSB 2	BSB 3	BSB 5
Format [mm]	640 x 920	800 x 1140	900 x 1300
Max. ream height [mm]	160	160	160

	BSB 6	BSB 7	BSB 8
Format [mm]	1050 x 1450	1250 x 1650	1320 x 1850
Max. ream height [mm]	160	160	160

	BSB 10
Format [mm]	1525 x 2050
Max. ream height [mm]	160



## BSB L

All model "L" automatic joggers are equipped with a pneumatic air-expulsion roller with clamping device.

### Features

- The table of the automatic jogger is designed with a stainless steel air table
- Side flap with pneumatic tilt
- Tiltable both left and right
- Variable jogging intensity
- The speed of the air-expulsion roller can be varied to suit different materials
- Air expulsion can be selected for one or two times

### Options

- Pneumatic attachable sheet divider for smaller sheets
- Cut outs for grippers to automatically remove lifts
- Unloading through the back after air expulsion
- Ream stabilizer
- Count by weight scale mounted under the automatic jogger

### Advantages

- Highly accurately aligned layers
- Increase in productivity

### Technical Data

	BSB 2 L	BSB 3 L	BSB 5 L
Format [mm]	640 x 920	800 x 1140	900 x 1300
Max. ream height [mm]	160	160	160

	BSB 6 L	BSB 7 L	BSB 8 L
Format [mm]	1050 x 1450	1250 x 1650	1320 x 1850
Max. ream height [mm]	160	160	160

	BSB 10 L
Format [mm]	1525 x 2050
Max. ream height [mm]	160





### BSB 3 L professional

The new BSB 3 L professional is able to jog even “difficult” materials, such as metallic paper, pharmaceutical package inserts or labels, much easier and thus quicker than conventional joggers.

#### Features

- Additional aeration during the jogging process
- Margin-free air expulsion
- Highly planed and micro-perforated table surface
- Micro-perforated side gauges
- New, powerful jogging motor
- New air expulsion roller for very high pressure
- Layer stabiliser

#### Technical Data

	BSB 3 L professional
Format [mm]	770 x 1070
Max. ream height [mm]	160



### BZW (in combination with an automatic jogger)

Simultaneous jogging and counting saves time and space. Counting prior to the cutting process ensures that a precise, pre-defined number of sheets is cut.

#### Features

- Integrated printer for recording of all important data (date, time, customer's name, operator)
- Seven-digit LCD multifunctional display
- Alphanumeric keyboards with function keys
- Dynamic memory management (memory capacity for 1000 jobs)
- Serial interfaces

#### Advantages

- Time saving (simultaneous jogging and counting)
- Space saving (the automatic jogger is positioned on top of the scale counter)

#### Technical Data

	BZW
Weighing platform [mm]	1250 x 1050
Weighing power [kg]	0 - 600
Total loading capacity [kg]	1100
Digital steps [g]	10





## BPS – Pressing Station

BAUMANN Pressing Stations remove the remaining air from between the sheets and thus contribute to increasing the cutting-accuracy. The air is effectively removed without any damage to the material. After the pressing station, the ream can be transferred manually onto the cutter's front-table. As an alternative, the ream can be taken out of the pressing station by means of a gripper transport system and will then automatically be transferred onto the cutter's rear-table.

All BAUMANN Pressing Stations are very solid and robust and have been designed to cope with the highest possible pressure (the BPS3 has an effective pressure on a 700 x 1000 mm sheet of about 50 to).

### Features

- The Pressing Station is designed with a stainless steel air table
- Solid clamping system
- Side flap with pneumatic tilt
- Pressing speed can be adjusted to expulse difficult material

### Advantages

- Latest technology
- Very comfortable operation

### Technical Data

	BPS 3	BPS 6	BPS 7
Sheet format [mm]	770 x 1070	1050 x 1450	1250 x 1670
Max. ream height [mm]	160	160	160
Connected load [kVA]	2	2	2



## BLL

Air-Board Systems offer numerous buffer spaces for jogged reams. They bridge the waiting-times between jogging and cutting. Air-Boards, which are put between the reams, separate the reams and are also used for the ream's transport. Air-Boards are put in or taken out by the operator.

### Application

- Building up a pile of jogged reams for further processing
- Destacking of piles
- Pile-exchange

### Modes of operation

- In-line Solution:

The Air-Board System is installed between the jogger and the cutter. The reams are jogged in the automatic jogger, buffered in the air-board system and are then transported towards the cutter. It is also possible to put in pre-jogged piles directly at the air-board system, thus skipping the automatic jogger, and transport the reams towards the cutter.

- Off-line Solution:

After the jogging process the reams are buffered and restacked with the assistance of the air-board system. The reams are then transported from the air-board system towards the cutter either automatically via the rear-table or manually via the front-table.

### Advantages

- BLL is a low-cost buffering system

### Technical Data

	BLL 3	BLL 6	BLL 7
Format max. [mm]	850 x 1100	1050 x 1450	1325 x 1720





## BB

Automatic destacking of reams and automatic transport towards the high-speed cutter.

### Rear table loading

Baumann Loaders typically load the high speed cutter via the rear table. The destacked reams are transported towards the cutter either by a pushing unit "BTE" or by a gripper transport system "BFS".

### Front table loading

When front table loading is desired, the destacked ream is transported semi-automatically towards the cutter either by a pusher or manually by the operator.

### Features

- Possible destacking systems
  - Reflective wedge (destacking exactly the pre-defined ream)
  - Long separating strips (E-System, destacking exactly the pre-defined ream)
  - Short separating strips (destacking exactly the pre-defined ream)
  - Light-barrier, which is adjusted to the requested ream height (destacking roughly the requested ream, destacking of exactly the pre-defined ream is not possible)
- Installation
  - Longitudinal installation  
(the loader takes up the ream at its smaller side)
  - Installation at an right angle  
(the loader takes up the ream at its larger side)

Loaders for formats 8 and 10 are constructed with a double-support.

### Options

- Double gripper for larger formats
- Maximum pile height 1800 mm or 2100 mm
- Calculation of the optimum ream height with respect to the given pile height

### Application

- Paper
- Plastic
- Chipboard or heavy cardboard
- Printing Plates

### Advantages

- Very high automation level
- All relevant parameters can be adjusted to suit the product from the operator's panel
- Solid and precise construction
- Automatic destacking of small formats is possible
- Universal application

### Technical Data

	BB 3	BB 5	BB 6
Format [mm]	770 x 1070	920 x 1300	1050 x 1450
Max. ream weight [kg]	150	150	300
Ream height [mm]	160 (200)*	160 (200)*	160 (200)*
Pile height [mm]	1400 / 1800	1400 / 1800	1400 / 1800

	BB 7	BB 8	BB 10
Format [mm]	1250 x 1650	1320 x 1850	1525 x 2050
Max. ream weight [kg]	300	300	300
Ream height [mm]	160 (200)	160 (200)	160 (200)
Pile height [mm]	1400 / 1800	1400 / 1800	1400 / 1800

\* only in combination with KS-Master





## BASA

### What is BASA able to do?

- BASA is the first system world-wide, which is able to align a large variety of materials fully automatically
- BASA is the missing link in the field of automatic cutting
- BASA rationalizes and humanizes the alignment process of printed sheets

### Application

BASA meets two important business requirements:

- Ergonomics
- Cost saving

### Where is BASA required?

- Where high production volumes have to be processed
- Where large-format printing sheets have to be processed
- When ergonomic restrictions demand an automatic jogging process
- When the cutting-process is to be automated

### Which materials can be processed by BASA?

- All papers with a grammage of at least 60 g/m<sup>2</sup> (for smaller grammages we strongly recommend testing at our facilities)
- Various types of label papers
- Cardboards up to a grammage of 600 g/m<sup>2</sup>
- Foils (provided that they do not stick together and that there is no frictional electricity)
- Plasticized materials
- Perforated and embossed paper and cardboard

### Technical Data

	BASA 3	BASA 6/7	BASA 8/10
Format max. [mm]	770 x 1070	1250 x 1650	1650 x 2050
Format min. [mm]	430 x 600	560 x 660	700 x 1000



### Modes of operation

BASA is equipped with two different modes of operation:

During the **automatic operation**, BASA processes the arriving pile without any operator's assistance and provides the jogged and aligned reams in the desired height for further processing. For critical materials and small issues BASA has been equipped with a **manual mode of operation**, working similar to a traditional jogging machine.

### Examples of application

#### ■ In-line Solution

The jogged reams are taken out of the BASA and transported directly to the high-speed cutter. The ream-transport is usually carried out by a transport-gripper system, putting the reams down on the cutter's rear-table.

#### ■ Off-line Solution

An unloader with an integrated gripper system takes the jogged reams out of the BASA and restacks them onto a pallet. During the restacking process, air-boards, sheets of cardboard and/or separating strips can be inserted to facilitate the subsequent destacking process.



A large industrial machine, likely a palletizer or depalletizer, with a conveyor system and a robotic arm, used for handling large white blocks. The machine is white and grey, with a complex mechanical structure. It features a conveyor belt at the bottom and a robotic arm with a gripper at the top. The machine is shown in a factory setting.

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## BMR

The Multi-Ream Rack BMR bridges the waiting-times between jogging and cutting. The jogged reams are buffered within the Multi-Ream Rack and are transported towards the cutter when required. BMR runs fully automatically and is always operated as "in-line solution". The number of possible storage places is only limited by the height of the building. A gripper transport system takes the jogged reams from the automatic jogger to the Multi-Ream Rack where it can be stored. When the ream is required at the cutter, the gripper transport system takes it to the cutter's rear-table. Different orders are managed by numbers/names.

### Advantages

- Compared to other "storage systems", a much higher number of jogged reams can be stored
- The storage process runs fully automatically (no pile-transport is necessary)
- Possibility to store different orders simultaneously
- Optimum management of different orders
- Storing of freshly printed sheets
- Reduction of remaining air between the jogged reams
- Highly efficient and cost-saving

### Technical Data

	BMR 3	BMR 6
Format max. [mm]	770 x 1070	1050 x 1450
Storage places min.	10/15/20	10/15/20
Usual number of reams (rear-table feeding)	15/20/25	15/20/25



## BFS-R (4 and 5 buffer-spaces)

The gripper transport system BFS-R, more commonly known as the Curved Gripper System, offers the most efficient way to feed a cutter via the rear table. The jogged ream is transported from the front side of the cutter from a BASA, automatic jogger or automatic loader 90 degrees into the rear side of the cutter. As the cutter is cutting the ream, the BFS-R is filling the buffer positions. This allows the cutter operator to continuously cut.

### Available variants

- BFS-R H for rear-table feeding with 4 buffer-spaces
- BFS-R HV for front- and rear-table feeding with 5 buffer-spaces
- BFS-R can be combined with **Automatic cutting (APS)** and **Automatic jogging (BASA)**

### Advantages

- Large number of buffer-spaces, requiring very little space
- Thanks to the very high speed of the gripper transport, the layers are transported towards the cutter in a very short time
- The speed can be adjusted to suit the product
- The clamping force of the grippers is infinitely variable, no risk of marking the sheets
- Space-saving construction with short ways between jogger and cutter
- The jogged layers can be transported directly towards the cutter without any intermediate stops

### Technical Data

	BFS-R 3H	BFS-R 5H	BFS-R 6H
Format max. [mm]	720 x 1050	920 x 1300	1050 x 1450
Format min. [mm]	430 x 610	430 x 610	430 x 610
Ream height [mm]	160	160	160

	BFS-R 7H	BFS-R 8H	BFS-R 10H
Format max. [mm]	1250 x 1650	1320 x 1850	1525 x 2050
Format min. [mm]	430 x 610	430 x 610	430 x 610
Ream height [mm]	160	160	160





## BFS (1 and 2 buffer-spaces)

Gripper transport systems take the jogged layers out of the automatic jogger and transport them towards the cutter. BFS can be equipped with one or two buffer-spaces. This is the "classic rear-table feeding". The layers are transported in a "straight-forward movement".

BFS is very efficient and dynamic. It is able to transport the layer directly towards the cutter without any intermediate stops.

### Possible combinations

- Combination with automatic cutting (APS)
- Combination with automatic jogging (BASA)

### Advantages

- Very quick feeding of the cutter
- Higher layers can be processed when feeding the cutter via the rear-table
- Cost-saving, increasing the productivity
- Highly precise and highly dynamic

### Technical Data

Format max. [mm]	770 x 1070	1050 x 1450	1260 x 1670
Cutting width [mm]	1150/1320	1680	1680 with long table or 2250
Buffer-spaces	1 or 2	1 or 2	1 or 2
Number of grippers	2	3	3

Format max. [mm]	1300 x 1850	1525 x 2050
Cutting width [mm]	2250	2250
Buffer-spaces	1 or 2	1 or 2
Number of grippers	3	3

## BTE

Pushing systems can take the layer out of the jogger, the gripper transport system or the loader and transport them towards the cutter. BTE can be equipped with one or two buffer-spaces. It is suitable wherever the layers can be pushed. Transport-times of the BTE are shorter than those of the BFS. BTE usually feeds the cutter via the rear-table. It can also be installed in combination with a BFS-R (5th buffer-space) or as support for the front-table feeding. The layers are transported in a "straight-forward movement".

### Advantages

- Very good cost-benefit ratio
- Higher layers can be processed when feeding the cutter via the rear-table.
- Cost-saving, increasing the productivity
- Numerous possibilities of application

### Flexible and individual

BTE can be used for any format and is always adjusted to meet the company's individual requirements.





## BSR

The BSR or Board Sorting Rack is used in processing reams that have up to 4 different jobs within the same ream. The BSR is located next the front table of the cutter. As the cutter operator cuts the different jobs within the ream, he loads each job onto the BSR. The BSR will keep the jobs separate until they are ready to unload at which time they are automatically unloaded onto a Multiple Unloader.

### Operating Modes

- Collection of products (until the layers have been completed)
- Restacking of the completed layers

### Possible combinations

- BSR is always connected to a multiple unloader BA F, which restacks the different products on up to 4 different pallets

### Special features

- BSR is available with automatic sorting via image recognition
- The number of buffer and restacking spaces is discretionary

### Advantages

- The cost-saving processing of collective sheets
- Suitable for sorting strips during label production
- Highly effective in combination with BA F
- Considerable increase in productivity

### Technical Data

	BSR 3	BSR 6
Format max. [mm]	800 x 1000 or 1000 x 1000	1050 x 1450 or 1000 x 1300



## BA N e

Semi-automatic restacking of single- and multiple cuts with high precision.

### Most important features:

- Very smooth surface, micro-perforated air-table-surface
- Very lean table construction with a long slope
- Thanks to the very limited drop height at the transfer to the pallet, even very small cuts can be restacked with ease
- Precise guides
- Sturdy and strong design and engineering
- No compressed air required
- The pallet can be removed from either side
- Low maintenance
- No set-up times
- Maximises energy savings

### Technical Data

	BA 2 N e	BA 3 N e
Sheet format max. [mm]*	550 x 770	770 x 1070
Pile height [mm]	850	1000
Layer weight [kg]	55	150
Pallet height min. [mm]	120	160

\* to be understood as max. pallet sizes





## BA N (unloaders for piles ≤ 1100 mm)

The ergonomic and economically effective way to restack single and multiple cuts with high precision. The manual restacking of paper and cardboard after the cutting-process requires a lot of time and effort. The unloader gives you the opportunity to automate the restacking process.

Unloaders BA N take up the material at the level of the table. The pile is positioned underneath the unloader table. The layers are restacked until a maximum pile height of 1100 mm has been reached. Unloaders BA N can either be installed on the right or on the left hand-side of the cutter. The design is very innovative (especially the principle of controlled axis), material and finish are of high-quality. The user friendly operator's panel with clear text display offers the opportunity to change all relevant parameters.

### Advantages

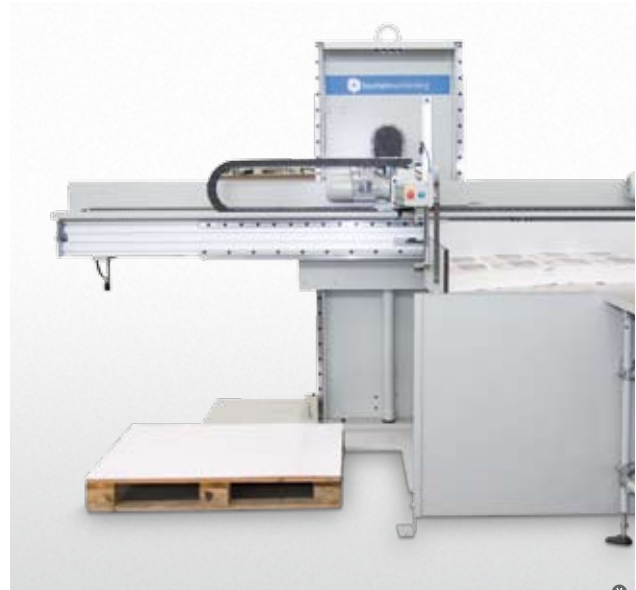
- Increased productivity
- Very good restacking results
- Careful material handling
- Latest technology

### Technical Data

	BA 2 N	BA 3 N	BA 5 N
Sheet format max. [mm]*	750 x 1050	800 x 1200	900 x 1300
Pile height [mm]	1100	1100	1100
Layer weight [kg]	80	150	150
Pallet height min. [mm]	130	130	130

	BA 6 N	BA 7 N
Sheet format max. [mm]*	1050 x 1450	1250 x 1650
Pile height [mm]	1100	1100
Layer weight [kg]	300	300
Pallet height min. [mm]	130	130

\* to be understood as max. pallet sizes



## BA

The ergonomic and economically effective way to restack single and multiple cuts with high precision. The manual restacking of paper and cardboard after the cutting-process requires a lot of time and effort. The unloader gives you the opportunity to automate the restacking process.

Unloaders type BA are especially made for pile-heights of up to 1400 mm. The material is restacked in front of the unloader. The material is taken up at the level of the table and restacked either over or under this level. Unloaders BA can either be installed on the right or on the left hand-side of the cutter.

The design is very innovative (especially the principle of controlled axis), material and finish are of high-quality. The user friendly operator's panel with clear text display offers the opportunity to change all relevant parameters.

### Advantages

- Increased productivity
- Very good restacking results
- Careful material handling
- Latest technology

### Technical Data

	BA 3	BA 5	BA 6
Sheet format max. [mm]*	800 x 1200	920 x 1300	1050 x 1450
Pile height [mm]	1400/1800	1400/1800	1400/1800
Layer weight [kg]	150	200	300
Pallet height min. [mm]	130	130	130

	BA 7	BA 8	BA 10
Sheet format max. [mm]*	1250 x 1650	1320 x 1850	1525 x 2050
Pile height [mm]	1400/1800	1400/1800	1400/1800
Layer weight [kg]	300	300	500
Pallet height min. [mm]	130	130	130

\* to be understood as max. pallet sizes





## BA F

The multiple unloader BA-F automates the restacking process. The unloaders BA-F enable you to restack up to 4 piles onto up to 4 different pallets. It offers a great variety of possible combinations. Different materials can be handled at the same time. The unloaders BA-F are able to restack both large-format single-cuts and divided or multiple-cuts and can also be used for strips or labels within the label production. The complete machine moves within the machine bed. It can take up the products at different places and restack them at one or several pallet places.

### Modes of operation

In combination with automatic cutting

- The unloader can take up single-cuts from the rear-table of the cutter, align and restack them fully automatically
- BA-F can automatically take up divided cuts from the rear-table of the cutter. The divided cut is completed by the second half at the cutter's front-table. The completed layer can then be restacked fully automatically
- Operation as "normal" unloader, operating via the cutter's front-table

### Advantages

- A fully automatic restacking process
- Cross-pile centration on top of the pallet
- Possible combination with automatic cutting and BSR
- Different modes of operation
- Latest technology, very dynamic, very short restacking cycles
- Increased productivity
- Relief of the operator's physical strain
- A great variety of possible combinations

### Technical Data

	BA 3F	BA 5F	BA 6F
Sheet format max. [mm]	800 x 1000	1000 x 1300	1050 x 1450
Pallet places max.	4 (6)	4 (6)	4
Cross-pile centration	X	X	X
Combination with BSR	X	X	X
Combination with APS	X	X	X
Intermediate board inserter	X	X	X
Pallet heigh [mm]	100	100	130

	BA 7F	BA 8F	BA 10F
Sheet format max. [mm]	1260 x 1670	1300 x 1850	1525 x 2050
Pallet places max.	3	3	2
Cross-pile centration	X	X	X
Combination with BSR			
Combination with APS	X	X	X
Intermediate board inserter			
Pallet heigh [mm]	130	130	130





Picture without safety fences \*

BSW (Automatic pile turners)

The manual handling of paper and cardboard-stacks is a back-breaking and expensive process. Baumann Pile Turners give you the opportunity to save time, reduce the costs and eliminate the physical effort. There is a great variety of requirements today's pile turners have to meet.

- A diversity of tasks can be carried out by these multiple machines:
  - Pile turning
  - Precise pile alignment
  - Accelerate the drying process of printed products
  - Aerate and thus separate sheets prior to the printing process
  - Pallet exchange
  - Remove wastepaper
  - Centre a pile on the top of a system pallet
  - Integration into a logistic system, etc.

Baumann has concentrated on this diversity of tasks and offers a very broad range of pile turners in order to put the perfect pile turner for any task at our customers disposal. The automated pile turners are equipped with an operator's panel with an clear text display, which can be delivered with a touch screen, if

desired. According to the model, up to 9 different programs can be selected by the operator. The automated process is started when the program is started. The operator can adjust the program and optimize the process without having to interrupt the program.

Essential functions

- Aeration with powerful blowers and broad air-nozzles, which can be closed for smaller formats. The aeration process can be adjusted at the operator's panel
- Adjustable vibration with alignment-stop, which is extended automatically
- Motorized and fully automatic pile turning
- Safety devices (safety-fence and safety-light barrier at the entrance)

Advantages

- Comfortable operation
- Solid and compact construction
- Fast and reliable
- A great variety of possible applications
- High quality
- Excellent cost-benefit ratio

Technical Data

	Sheet format [mm]		Pile height [mm]	Loading capacity [kg]	Version	Version	Version
	min. <sup>1</sup>	max.	min./max.		D <sup>2</sup>	LD <sup>3</sup>	LDV <sup>4</sup>
BSW 3-1000	500 x 650	800 x 1200	620/1380	1000			X
BSW 3-1200	500 x 650	800 x 1200	790 / 2010	1200			X
BSW 6-1500	700 x 1000	1050 x 1450	720/2020	1500	X	X	X
BSW 7-1800	700 x 1000	1200 x 1650	800/2020	1800	X	X	X
BSW 8-2000	700 x 1000	1320 x 1850	800/2020	2000	X		X
BSW 10-2200	700 x 1000	1525 x 2050	800/2020	2200	X		X

<sup>1</sup> Smallest format which can still be aerated

<sup>2</sup> D with motorized turning

<sup>3</sup> LD with motorized turning and aeration

<sup>4</sup> LDV with motorized turning, aeration and vibration (alignment stop)





## BSW (Semi-automatic pile turners)

The manual handling of paper and cardboard-stacks is a back-breaking and expensive process. Baumann Pile Turners give you the opportunity to save time, reduce the costs and eliminate the physical effort. There is a great variety of requirements today's pile turners have to meet.

- A diversity of tasks can be carried out by these multiple machines:
  - Pile turning
  - Precise pile alignment
  - Accelerate the drying process of printed products
  - Aerate and thus separate sheets prior to the printing process
  - Pallet exchange
  - Remove wastepaper
  - Centre a pile on the top of a system pallet

Baumann has concentrated on this diversity of tasks and offers a very broad range of pile turners in order to put the perfect pile turner for any task at our customers disposal.

- Semi-automatic processes make the operation of the semi-automated pile turners very comfortable:
  - Aeration with powerful blowers and broad air-nozzles, which can be closed for smaller formats.
  - Vibration with adjustable alignment-stop, which is extended automatically (apart from BSW 2)
  - Manual or motorically supported pile turning.

### Advantages

- Comfortable operation
- Solid and compact construction
- Fast and reliable
- High quality
- Excellent cost-benefit ratio

### Technical Data

	Sheet format [mm]		Pile height [mm]	Loading capacity [kg]	Version	Version	Version	Available as "economy version"
	min. <sup>1</sup>	max.	min./max.		L <sup>2</sup>	LV <sup>3</sup>		
BSW 2	350 x 350	550 x 750	440/1200	500	X	X	X	
BSW 3	500 x 650	800 x 1200	620/1380	1000 or 1200	X	X	X	
BSW 6	700 x 1000	1050 x 1450	720/2020	1500 or 2200	X	X		X (e)
BSW 7	700 x 1000	1200 x 1650	720/2020	1800 or 2400	X	X		X (e)

<sup>1</sup> Smallest format which can still be aerated

<sup>2</sup> L with aeration

<sup>3</sup> LV with aeration and vibration





## BSW-Z 3-1000 LV

The pile counting and tabbing machine counts whole piles of paper. It tilts the pile by 90°, just like a pile turner. In this position a disc counting machine counts the pile and inserts tabs whenever the operator has programmed it. Additionally, the machine can aerate the pile to reduce the stack's drying time and the operator can take out waste sheets.

### Features

- Sheet counting and batching with tabs
- Aerating the stack to reduce powder and to reduce the stack's drying time
- Removing of waste sheets
- Changing of pallets
- Pile turning
- Precise pile aligning
- Vibration for a better aligning

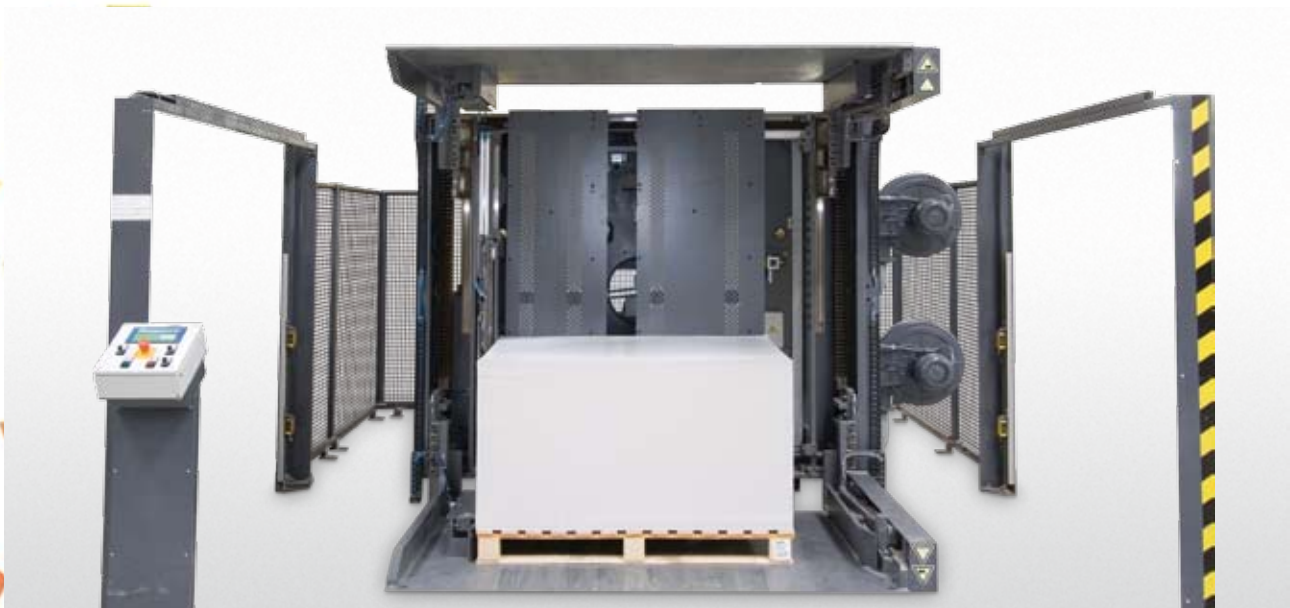
### Advantages

- More precise than counting by weight
- Automatic pre-counting of complete piles
- No damages to the paper edges thanks to the tiled position

### Technical Data

Sheet format max. [mm]	800 x 1200
Pile height max. [mm]	1300 (with pallet)
Pile height min. [mm]	5200
Paper quality [g/m <sup>2</sup> ]	60 - 120
Loading capacity [kg]	1000
Max. speed [sheets/min]	4.000
Max. speed with tab insert [sheets/min]	2.000





## Aupasys (pile turner)

The AUPASYS Pile Turner has been developed specifically for the needs of non-stop automatic sheet-fed printing and stamping machines. Size 3B, 6 and 7 is available. A major application area is the industrial packaging. All operations take place automatically and programmatically.

The AUPASYS pile turner is an inline solution upgradeable and can therefore be integrated into a material logistics.

A variety of tasks are taken from the AUPASYS pile turners

- pile turning
- Align the edges exactly in the center stack, using a moving ruler
- Change from system to transport pallets
- Sheet before printing or die cutting to ventilate and separate
- turning of thinner substrates to very strong

Baumann has with the AUPASYS pile turner the optimal solution, especially for the industrial use. It is perfectly prepared for the later-line operation (Option). This is the basis for future operational process improvement.

### Features

- Control panel with text display
- Pile turner can be installed on a level floor of the hall (on specification). A pit is not required
- Aerator enhanced with air vent
- jogger unit
- Stop with automatic clamping system for pallets for easy replacement of the transport pallet against the system pallet
- Space-saving operating mode by recording and depositing of the loaded pallet with the product at the same point
- Quick turn time (approximately 90sec )
- Remove from printing sheets possible

### Benefits

- Fully automatic turning process programmatically
- Vibration and alignment means infinitely variable
- Use of modern energy-efficient high pressure fans, resulting in less energy consumption
- Double Clamp (Option)
- Fully Automatic Pallet Changer (Option)

### Technical Data

	Format 3	Format 6	Format 7
Sheet format max. [mm]	750 x 1060	1030 x 1440	1210 x 1640
Sheet format min. [mm]	500 x 480	500 x 860	500 x 920
Pile height max. [mm]	2000 (with pallet)	2000 (with pallet)	2000 (with pallet)
Pile height min. [mm]	600	600	600
Loading capacity [kg]	1000	1800	2000
Aeration nozzles [number]	2	4	4



**BDG**

Automatic Positioning Systems provide you with a module which permits automatic cutting. Turning and aligning of the layer on the cutter's rear-table as well as the cut(s) run fully automatically. APS is suitable both for printed and unprinted sheets. The cutting-process and the APS are controlled by the cutting programme.

- The following tasks can be automated
  - Turning of the layer by 90° prior to the first cut (while feeding the cutter)
  - Turning of the layer by 90° or 180°
  - 4-side-trim
  - Dividing-cuts
  - Cutting strips (last strip must have a certain minimum dimension)

The cross-section cut as well as all further cuts after the last strip has been cut automatically are carried out manually as part of the cutting programme.

The construction as a portal as well as the 3-axis-control provide a dynamic system, which can be adjusted to suit the product.

#### Possible combinations

- Combination with a pushing system
- Combination with an automatic jogger
- Combination with a gripper transport system BFS/BFS-R

#### Advantages

- Most important component for automatic cutting
- Important increase of productivity
- Relief of the operator's physical strain
- Combination with numerous functional components
- Highly dynamic, enabling very quick turning and aligning processes
- The speed can be adjusted to suit the product

**BDG e**

The operator builds a ream within the automatic jogger. Afterwards, he needs to take only a few steps towards the cutter, where he can carry out the remaining cuts. At the same time, the jogged ream is transferred automatically from the automatic jogger to the side-table of the high-speed cutter.

As soon as the operator has completed the cutting process and the cut sets are being destacked by the unloader, the next ream is automatically transferred onto the front-table of the cutter. Pushing the ream into the high-speed cutter, aligning it highly precisely and carrying out a four-side-trim are automatic operations. **The operator is thus free to prepare the next ream in the automatic jogger BSB 3 L professional.**

After the first cut, the ream can be turned automatically by 90°. Up to 4 cuts can be carried out automatically.

#### Advantages

- Thanks to the innovative front aligning device, the automatic cutting process is now possible without a loss of quality.
- Output increase of up to 50 % compared to a conventional cutting line.
- An „all-purpose-system“ offering highest productivity.
- Perfect interaction of automatic and manual tasks.
- Ergonomic relief for the operator.

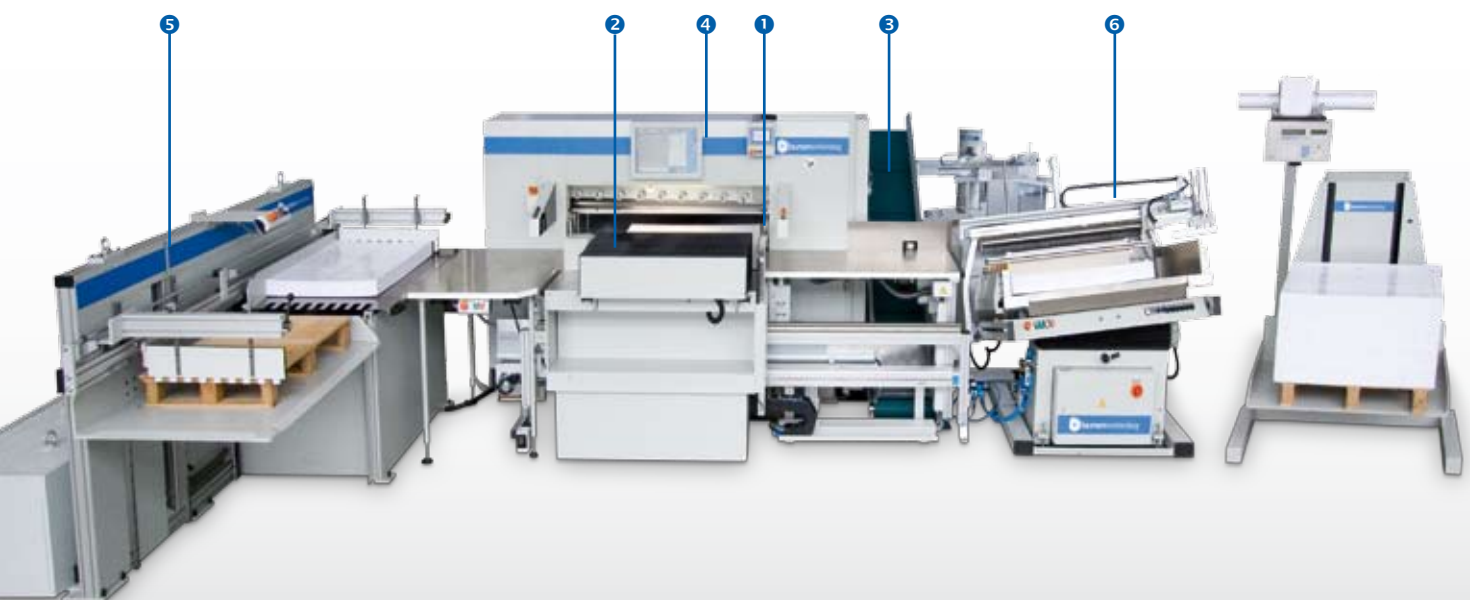


# AUTOMATED CUTTING HIGH FLEXIBILITY FOR MEDIUM CUTTING VOLUMES!

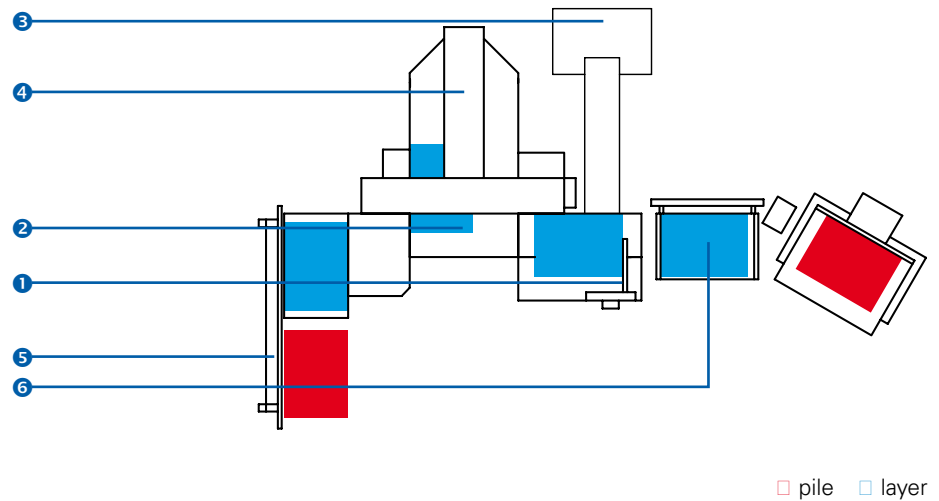
The cutting system offers high productivity in combination with perfect ergonomics. All main components can be used either automatically or manually.

## WHICH AUTOMATION COMPONENTS DOES THE SYSTEM OFFER?

- ❶ Automatic feeding of the high-speed cutter **NEW**
- ❷ Automatic cutting with front-and lateral alignment pusher **NEW**
- ❸ Automatic waste disposal
- ❹ Performance optimised high-speed cutter WOHLBERG 132
- ❺ Unloader BA3Ne - economy version **NEW**
- ❻ Automatic Jogger BSB3L professional







### THE OPERATING PRINCIPLE:

The operator prepares the layer in the jogger. Following that he approaches the high-speed cutter and finishes cutting the already aligned layer.

Simultaneously, the jogged layer is automatically transported from the jogger to the front-table of the high-speed cutter.

As soon as the operator has finished cutting the layer, the next layer is transported to the front of the high-speed cutter. The layer is then introduced into the cutter, aligned and automatically cut, **while the operator is preparing the next layer in the automatic jogger.**

After the first cut, the layer can be automatically turned by 90° and cut again fully automatically – in total up to 4 times.

### WHICH ADVANTAGES DOES THE SYSTEM OFFER?

- The automatic cutting is now possible without any loss of quality thanks to the innovative front aligner.
- Performance increase of up to 50 % - compared to a conventional cutting system.
- Very flexible combined with maximum productivity.
- The cutting system offers an optimal combination of all automatic and manual functions.
- Perfect ergonomics, relieving the operator of physical strain



Automatic front-table feeding system



Automatic turning of the layer on the rear-table; up to 4 cuts are possible without any operator's intervention



# AUTOMATED JOGGING FULLY EQUIPPED FOR HIGH PRODUCTIVITY

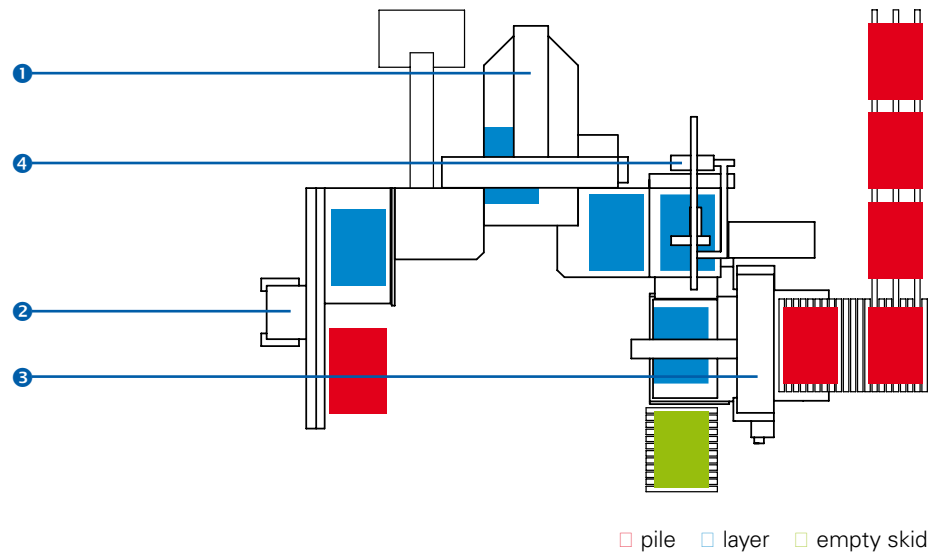
The cutting system has been especially designed for the heavy industrial production. The system combines several automated components for highest productivity, at the same time relieving the operator of physical strain.

## WHICH AUTOMATION COMPONENTS DOES THE SYSTEM OFFER?

- ❶ 132 high-speed cutter with new knife change device, optimised cutting cycle with new micro-perforated air table
- ❷ Unloader BA3 with fully automatic format detection **NEW**
- ❸ Fully automatic jogging system BASA 3 with integrated pile logistics and unique efficiency, also for small editions **NEW**
- ❹ Transport gripper system BFS-V, removing the sheets from the BASA and offering the possibility of feeding the high-speed cutter via the front-table.







## WHAT ADVANTAGES DOES THE SYSTEM OFFER?

### COMPLETE SYSTEM:

- Performance increase of up to 250 % compared to a 'classic' cutting line
- Very short set-up times—even small print-runs can be automatically processed
- All tables are equipped with micro-perforation so the operator can handle the material effortlessly.

### FULLY AUTOMATIC JOGGING SYSTEM BASA:

- The system is equipped with a new de-stacking unit and a counting device. Even piles, composed of different signatures, printed sheets in different languages or different assignments can be processed automatically, accurate to the sheet and correctly sorted.
- Thanks to the logistic system a 'non-stop' operation with maximum efficiency is possible.
- The sheet-blocker allows the processing of partial reams with a height up to 50 mm.

### TRANSPORT GRIPPER SYSTEM AND UNLOADER:

- On the feeding side it is possible to buffer up to 3 reams in the transport system BFS-V
- The unloader table is very thin and allows the highly accurate restacking even of small cuts.

### HIGH-SPEED CUTTER:

- Very quick thanks to the new cutting cycle, especially beneficial if a lot of cuts need to be made
- The new knife exchange system is simple, quick and highly precise. In combination with the new cutting-stick ejector changing a knife is simplicity.



BASA with logistic



Empty pallet's delivery





**Baumann Maschinenbau Solms GmbH & Co. KG**

Oberbieler Straße 1-3  
35606 Solms-Niederbiel

Telefon: +49 (0) 64 42/92 83-0  
Telefax: +49 (0) 64 42/92 83-39

<http://www.baumann-mbs.de>  
e-mail: [info@baumann-mbs.de](mailto:info@baumann-mbs.de)

We reserve the right to make technical alternations.