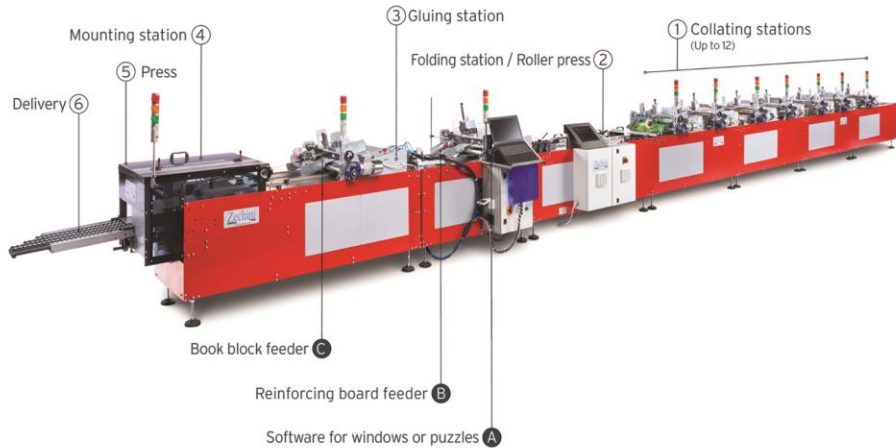


## RED ARROW 2

### AUTOMATIC CHILDREN'S BOARD BOOK MACHINE



#### MAIN FUNCTIONS

**Red Arrow 2** is new Zechini's automatic machine for the production of cardboard book blocks. Such book blocks are usually used for pre-school children's books production. Book blocks consist of four-page signatures glued together back to back. They may feature die-cut windows, jigsaw puzzles, die-cut moving figures, gadgets. **Red Arrow 2** works with printed spreads, which must previously be creased (or kiss-cut, in case of thick board) at the page's middle. If case the used size allows it, it is possible to produce two-up. Machine's modular structure allows high personalization and versatility. It is also possible to add units at a later stage, e.g. additional feeders (up to a total of 12), a spacer (reinforcing board) feeder, and/or a book block feeder. Machine's modular structure makes it easy for each customer to choose the right configuration for his needs and his budget.



**CHILDREN'S  
BOARD BOOK  
WITH WINDOWS**



**CHILDREN'S  
BOARD TO BOARD  
BOOK**



**CHILDREN'S  
BOARD BOOK  
WITH PUZZLE**

## MACHINE FEATURES

- **Touchscreen management.**
- **Spread feeder with “non-stop” feeding.**  
The customer is allowed to add further feeders (up to max 12) in order to achieve in-line collating and book block building. Board spreads, previously creased in the middle, are loaded in their specific feeders. Spreads are fed from the bottom which allows non-stop loading. It is possible to combine boards of various grammage within the book. The sheet picking system is similar to the one used in machines for calendar production.
- **The machine is equipped with a software that can manage existing stations and further ones, added later on.**
- **Folding station.**  
In folding station, sheets are closed along the fold.
- **Roller pressing station.**  
Subsequently, the signatures are calendered on the fold line to flatten the back.
- **Spacer (reinforcing board) inserting station.**  
The spacer feeder inserts boards in the empty spaces between the signatures to increase page's thickness with puzzles/windows or without them. In competing machines you must feed the spacer (reinforcing board) using one of the signature feeders which reduces the number of signatures you can bind together and possibly forces you to bind the book in two steps. The machine output will be halved. In **Red Arrow 2** you always have all the signature feeders at your disposal.
- **Application of cold glue by means of nozzles.**  
Just one gluing station is enough for the whole machine. The space between the gluing lines is 16 mm.
- **One single gluing unit in the machine is a significative advantage:**
  - A lower investment level;
  - Fast cleaning times;
  - Savings in personnel required.The competing machines, in order to obtain uniform gluing are obliged to use multiple gluing units and it is not easy. You are forced to use a glue with a long open time and therefore you need several pressing stations after the delivery, long cleaning time and many operators too.
- **A special software allows selective gluing in dots and lines for every injector and for a high number of different pages, for production of books with windows or puzzles in variable places on the page.**
- **Bookblock feeding station.**  
The book block feeding station is used when the book is composed of more signatures than the number of the spread feeders with which the machine is equipped. In this case, you have to bind the book in two steps: you use the book block feeder to combine the first part of the book block with the remaining signatures.
- **Bookblock forming station with light pressure.**  
There the signatures are stacked and registered from all four sides in order to obtain a perfectly aligned book block.
- **A light pressing unit ensures that the book block keeps its assemblage during transport and handling operations.**  
Excellent spine quality. The registering taking place in the mounting station ensures a perfectly aligned book spine. A free fall mounting and registering system used by our competition cannot achieve the same result.
- **Delivery of finished product.**



## TECHNICAL DATA

### BOOK BLOCK

Maximum size Open block:	350 (spine) x 500 mm
Maximum size Closed block:	350 x 250 mm
Minimum size Open block:	120 (spine) x 200 mm (it is produced two-up 240 x 200 mm)
Minimum size Closed block:	120 x 100 mm (it is produced two-up 240 x 100 mm)
Bookblock thickness:	5 - 35 mm
Creased paperboard thickness:	0,35 - 0,6 mm
Reinforcing board thickness:	0,35 - 4 mm

### GLUING STATION

Type of glue:	Vinyl
Dispensing of glue:	Pneumatic
Type of gluing:	Dot, Line
Distance between nozzles:	16 mm

### GENERAL TECHNICAL DATA

Mechanical speed:	200 sheets / min
Power supply:	380 V / 50 Hz / 3 Ph
Dimensions:	Depends on the features