

baumannperfecta | 80

High-Speed cutter – small format



More precision with absolute operational safety

- baumannperfecta 18,5" Cutpit
- Slotless cutting table
- Sidewise clamp drive
- Mechanical knife drive
- Smallest footprint

In addition to the excellent mechanical basic concept, the user-friendly operation, the highest cutting precision and the high level of safety standards are features of the baumannperfecta High-Speed cutter.

Performance data

Cutting table width	[mm]	800
Rear table length	[mm]	920
Maximal clamp opening	[mm]	120
Smallest cut/ with false clamp	[mm]	18/57
Backgauge return speed	[mm/s]	300
clamping force	[kN]	2-30
Safety pressing force	[N]	300
Main drive power	[kW]	3,0
Cutting table height	[mm]	900
Dimensions (W x H x T)	[mm]	1610 x 1460 x 2015
Net weight	[kg]	2000

The specified values can vary depending on the equipment / additional options.

Operation

New Cutpit – Convenience in your Workflow

- 18,5" Color display Touch-Screen
- Process visualization, real time Animation and displaying half and full finished jobs
- Program steps in self-explaining list
- Electronically adjustable backgauge speed and clamp pressure
- Automatic clamp pressure adjustment
- Pre-selectable clamping time extension- 0 to 9,9 seconds
- Integration of Prepress data CIP3/CIP4 from existing customer workflow (option)
- Structured Interface (easy operating mode, list mode, graphic mode)
- Extensive diagnose and service menu



Safety features

- Lockable Main Switch
- Two-channel safety computer system, permanently self-monitoring
- Simultaneous two-hand cut control device with Follow-up cut
- Self-monitoring safety light guard
- Safety knife control
- Knife change device (Combination out of Knife winding and setting gauges)
- Safety bolts (Expansion ring) and overrunning lock
- Reach protection for clamp
- Return spring for clamp
- Safety hydraulic block with automatic valve protection monitoring
- Extended options to diagnose hydraulic system
- Machine self-diagnosis with extensive service and maintenance menu
- Acryl covered rear table
- Highest safety standards, GS and ET certificates (CE-conformity)

Quality features

- New Interface with capacitive high-resolution color 18,5" Touchscreen for easiest operation and optimized overview
- Double enclosed cast-iron machine frame gives high-speed cutters the necessary stability
- Slotless cutting table with anti- corroding stainless steel surfaces ensures perfect handling of all substrates
- Air cushion for cutting and sides tables (Ball valves) are optimized for a perfect gliding of the substrates
- Wear resistant backgauge guidance on the side of the rear table with Servo drive, self-locking precision spindle for maximum position accuracy (1/100 mm)
- Optimally dimensioned clamp with sidewise arranged press cylinder
- Robust and low maintenance mechanical knife drive (Helical Spur gears) for high cutting forces
- temperature insensitive electromagnetically clutch with flywheel for high energy- efficiency of the main drive



Functionality

Highest cutting accuracy – precise, efficient and safe

Our High-Speed cutting machine is highly suitable for large variety of flat substrates in the small to medium format. The paper is fed in via the front table. The user-friendly Cutpit is used to set up all cut relevant parameters before the first cut (e.g. measurements, clamp pressure, paper orientation backgauge speed...). Furthermore, a large variety of additional options is available (e.g. Smart, Programmable clamp stroke limitation ...). These and other settings can be easily programmed on the Cutpit. The cutting programs can be set on the Cutpit as well. All relevant Job data's can be retrieved from the internal memory of the cutting machine, a USB drive or in connection to the internal network. If the machine is equipped with CutTronic (option) the cut programs can be directly prepared out of existing Prepress data. The program sequence is displayed in real time life animation and if necessary, the operator can intervene. The mechanical cutting indicator is operated by the means of the clamp with the foot pedal. If all parameter for the job have been set accordingly, the program is started by triggering the simultaneously 2-hand cut. There are various options for the cutting sequences: the *SingleCut sequence* requires a permanent use of the 2-hand operation for each cut. The setting automated Subsequent cut only requires a short touch to start the cutting sequence. After having started the two-hand cut release, the clamp lowers and fixes the substrate. Afterwards the mechanically driven knife movement takes place; a so-called Swing bevel cut separates the various jobs. The Cutpit not only guides you through your process flow, but also supports you visually during service and maintenance work (knife change, cutting stick change, ...)

The Machine

Control and electronics

- 18,5" Touch-Screen
- Complete electrical equipment
400 V / 3 Phases / 50 Hz
- Separately lockable main switch
- 1 USB-Stick, Ethernet-connection

Knives and cutting sticks

- 2 heavy-duty High-Speed Steel grade (HSS) knives
- 10 Cutting sticks

Cutting and Side tables

- Cast-iron tables 330 x 528 mm
- rear and front side plates on the left and right
- Acryl covered rear table

Clamping system

- Hydraulic clamping system
- False clamp 57 mm
- automatic clamping pressure adjustment

Accessories

- plastic pile support
- operator's manual with spare parts catalogue and wiring diagram

Status: 03/2025 | Subject to technical changes | Images can have additional options.