

HIGH-SPEED GUILLOTINE

76, 92, 115, 132, 168, 225

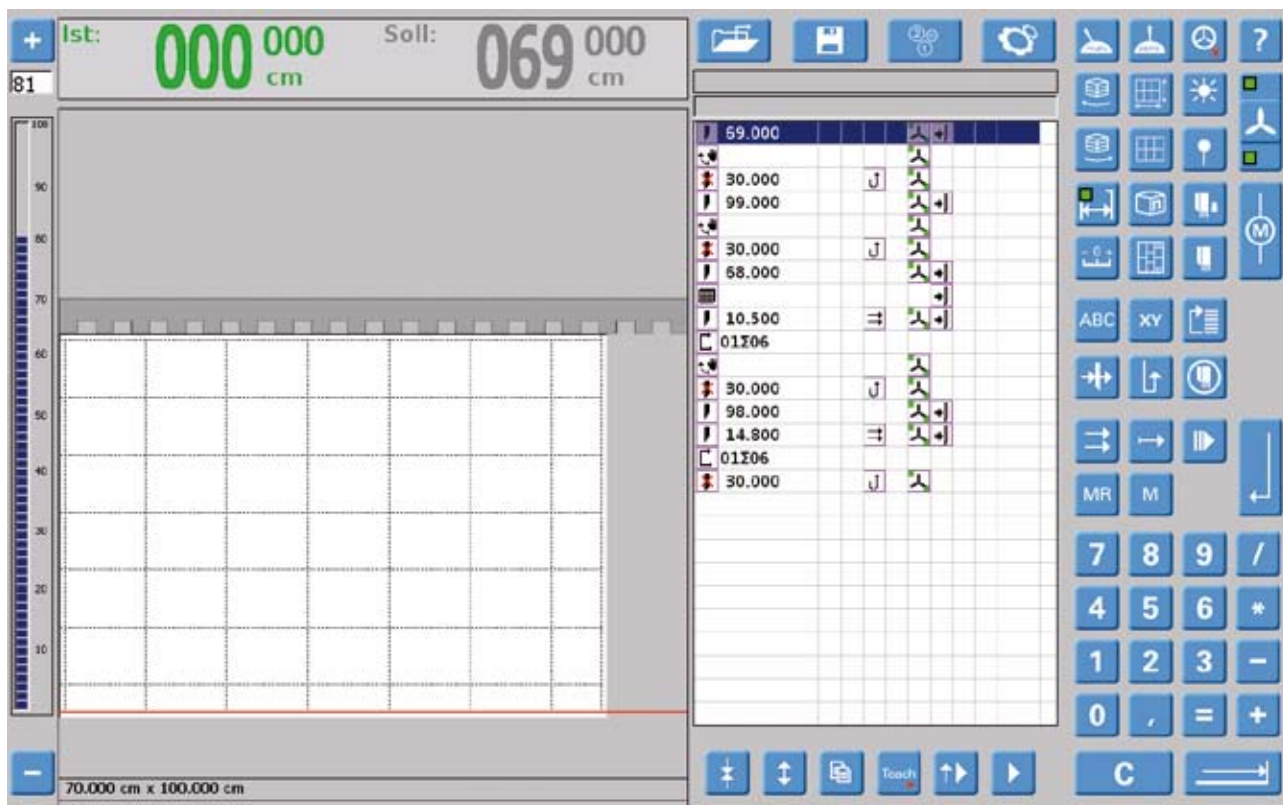


THE NEW TOUCH CONTROL IN WIDE-SCREEN FORMAT 16:10

Interactive user interface

Basic principle of the control is the manual input via the large 19 inch touch wide-screen, dispensing with need for additional electronic or mechanical controls. The distances on the screen are minimised for the user, and are logical with few image changes. Only currently relevant and executable actions are displayed.

- Graphic display of the sheet to be cut
- Fully-automatic
- Single cut
- Programmed cut
- Repeat cut
- Clamping only, no cut
- Actual position transfer
- Paper turning directions
- Automatic paper ejection
- Correction of register lay
- Correction of cut size
- Pocket calculator functions
- Alpha-numerical programme sorting
- Cut counter, separate for greasing, knife change, daily counter, general counter
- State of art machine self-monitoring
- Programmed texts for operator's guidance
- Automatic standby function
- Live search function for programs



Touchscreen

19" high-quality TFT Display in 16:10 format for a clearly arranged presentation

Industrial control

Virtually unlimited (up to 1.000.000) program storage. Each machine equipped with an extensive language package. Further language versions available if required.

MIS Integration (optional)

An existing MIS system can be operated in the machine display via a browser based connection.

USB Interfaces

Low cost, standard USB memory sticks are used for the transfer of cutting program data, backup of your stored programmes, and for 'off-line' reading of CIP3 (PPF) and CIP4 (JDF) files.

Ethernet interface

For 'online' reading of CIP3 (PPF) and CIP4 (JDF) files. And for the connection to an MIS system.

Operating system Windows CE

High operating reliability. Power failures cause no problems.

CIP-data-module:

CIP3 and CIP4 (optional)

The CIP-data-module generates a cutting programme including graphical visualisation in a matter of seconds. The pre-press data is recalled on the guillotine itself, with a push of a button the guillotine creates the cutting program in a few seconds – an additional PC is not required.

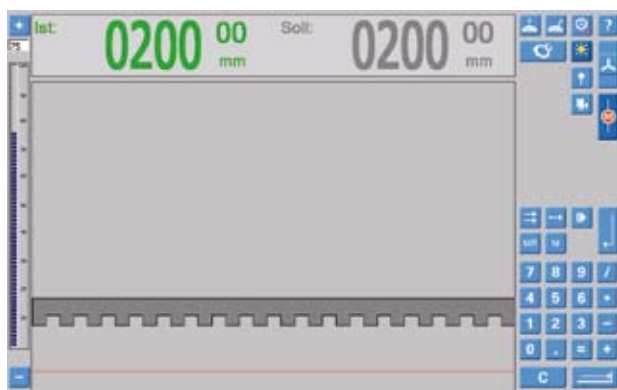
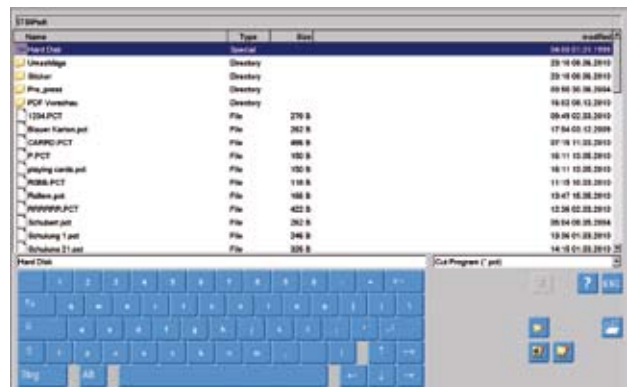
Interactive cutting program generator (optional)

A software running on a external PC which allows the operator to create the program in an interactive way from a CIP3/4 file. So the operator can decide the order of cuts manually to his own needs.

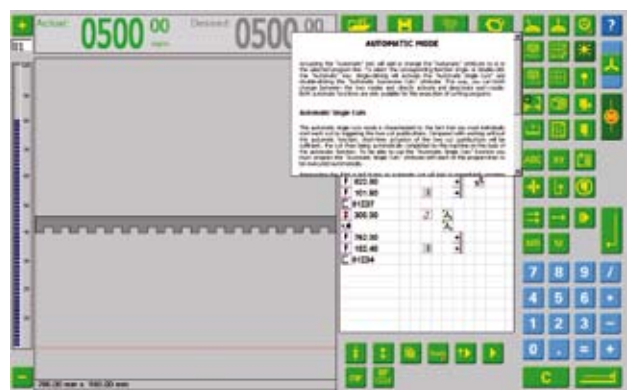
Settings Overview



Program Overview



Simple Mode



Help Function (Not available in every language)





CUTTING WIDTHS 92, 115, 132, 168, 225*

Backgauge positioning by electronic hand wheel

with high-precision and easy handling.

Backgauge drive by servo motor (30 resp. 200 cm / sec)

Quick positioning of cutting stock with up to 30 cm/sec, as from 76-type and up to 200 cm/sec (in backgauge return mode) in case of the system machine with linear drive. Backgauge-speed, - acceleration and - braking are adjustable. Particularly advantageous when processing sensitive cutting stock.

Optimised cutting cycle

Unnecessary waiting times are eliminated, the cutting cycle speed is increased by over 30 %

Programmable clamp pressure

With clear visualisation of the selected and actual clamp pressure on the display.

Automatic adapting of the clamp pressure to the cutting width.

No longer extreme overclamping of the small sides of the ream, which results in a longer knife life time and higher cutting accuracy. The clear visualizing on the display informs the operator, any time, about the actual clamp pressure.

Automated safety knife change from the front

The knife-change protection device provides highest safety standard for the machine operator. Knife chipping during knife change can be eliminated.

Quick knife-change

New knife-changing device (knife lift with setting gauge) with automatic knife fine-adjustment. Adjusting of the knife carrier and switch-off of main motor can be disregarded. (Correction of knife thickness $\pm 0,99$ mm)

Higher stability by new machine body cast in one piece and new table suspension.

The torsion-free cutting unit is ideally suited for high loads, guaranteeing highest cutting accuracy for decades.

Low-maintenance electromagnetic clutch

with smooth engaging of the main drive, protecting the mechanics and transmission.

Clamp bar stop function

The clamp bar stops close to the material, significantly reducing cycle times.

Solid machine table

2 mm stainless-steel plating on the machine table virtually eliminating the possibility of corrosion which can be caused with nickel and chrome refinement.

ENERGY

Table blower

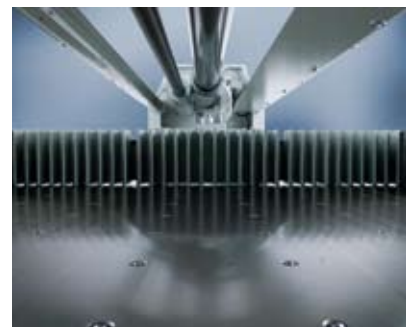
The air table blower is activated only when required during the cutting program thus saving energy, noise and heat.

Closed machine table

For comfort and ease of turning heavy reams the machine table is closed, forming a strong air cushion. The elimination of the slot gap means no air cushion erosion and no trapped or folded sheets on the bottom of the paper stack.

Efficient drive

As the main drive a large spur gear is installed on the new Wohlenberg machine. This is less prone to damage as for example a worm gear, and also requires less energy.



Closed machine table

* The Wohlenberg 225 is exclusively produced as system machine, the basically distinguishing features, compared with other cutting widths, are the cast machine body, machine table and backgauge drive.

PRECISION

Centre clamping (115 - 225)

A pre-requisite for an angular precise cut is an even clamping over the entire surface to be clamped. To guarantee this the pressing cylinder of the new Wohlenberg is installed centrally underneath the cutting table. Via two solid deflector levers the clamp bar is pulled down onto the cutting stock providing an equal and strong pressure on both sides.

Precise clamp bar control

In order to precisely control the clamp bar movement the Wohlenberg High-Speed Guillotines provide a new-type kinematics. The foot lever position is directly transferred to the clamp bar, allowing a smooth lowering without shifting the upper sheets.

Side gauges

A further basic requirement is a geometrically perfect machine. The side gauges of the new Wohlenberg are from extra thick-walled aluminium. Only when registering the cutting stock against totally perpendicular side gauges can you expect a precise square cut.

Precision transport spindle

Backgauge drive by means of a precision transport spindle which is precisely linked with a solid circular guide.

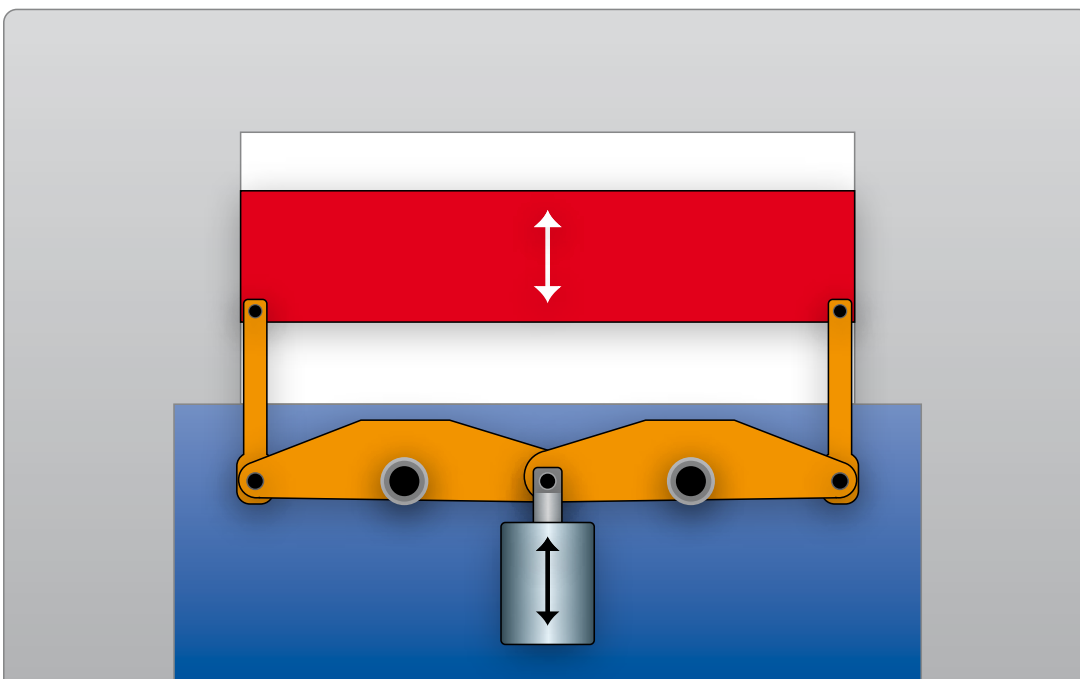
This guide is able to take up high forces with low loss. Should the operator accidentally knock against the backgauge too vigorously this would not cause any deflection of the backgauge. With this high precision drive it is possible to move the backgauge 1/100 mm back or forward.



Side gauges



High-precision transport spindle with solid circular guide
(on the 76/92 the backgauge is guided from the side)



The centre clamping
guarantees a precise angular cut
(115-225)

OPTIONS

Cutting line light LED

The cutting line light with LED is lasting extremely long. No exchange of the bulbs anymore necessary.

Micro Air table

Machine table equipped with micro-air nozzles instead of the old ball nozzles. Better air cushion because of more nozzles.

ASE (Automatic waste disposal)

Chips are disposed of underneath the front table. Disposal of sharp-edged chips without risk of injuries (e.g. aluminium chips). The Wohlenberg automatic waste disposal device is an effective rationalising measure, increasing the productivity of the guillotine by approx. 30 %.

For collecting of small cut copies on the front table the ASE can be lowered down by up to 4 mm. The quick opening and closing of the table is done by motor drive, and vertical movement effected pneumatically.

Front table air – separately switchable.

For easy unloading of the front table without interfering with the cut copies on the rear table.

Downholder in front of the knife

A downholder is gently fixing the pieces in front of the knife during the cut. A shifting and moving of small pieces like business cards during the cut is not anymore possible.

Additional airtation device

Compressed air is blown through small nozzles onto the blade to get rid of small waste pieces which might stick to the blade.

Adjustable knife speed

For sensitive material like plastic. Stepless control to lower the speed of the knife.

Knife cleaning device

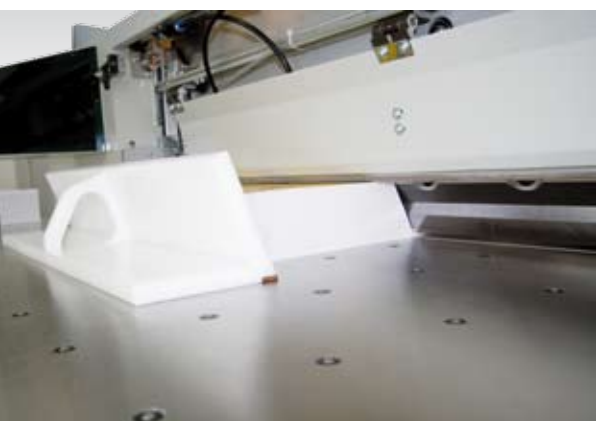
Special slot in the clamp for a high-tech felt with silicone for cleaning the back side of the knife permanently.

Clamp plate for reduced smallest cut

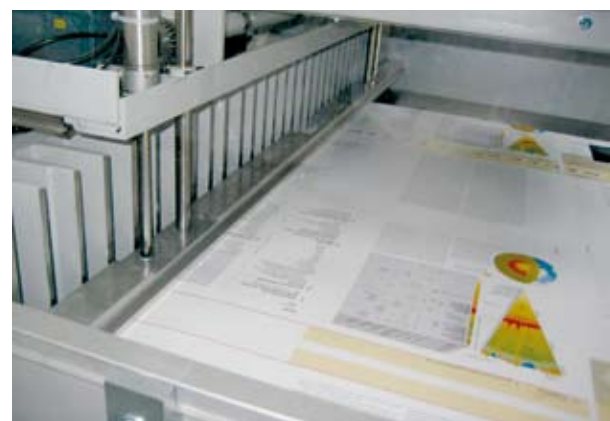
For small cutting stock, e.g. business cards.

Retractable side gauge

The newly developed retractable side gauge is firmly fixed to the guillotine and parallel aligned.



Downholder in front of the knife



Downholder in front of the backgauge

Rear machine table closing device movable

The movable rear table protection is monitored electrically. The operator has an easy access for cleaning the knife's rear side. Because of safety measures the knife and backgauge motion is locked during this process.

Swivel- and tilting backgauge

Motor driven correction of over and undercut (tilting function). Aligning of the printing image parallel to the cutting line (swivelling function).

Downholder in front of the backgauge

A downholder is fixing the ream. Needed if the ream is curly at the end.

Clamp beam enlarged

The larger depth of the clamp beam improves the cut accuracy on slippery and/or wavy (in the height) cut material

Press lay aligner at the backgauge

This will give the operator a two point aligning on the long side and a one point aligning on the short side (same principle as in the press). Essential if the sheets are convex – there is no straight edge for aligning.

Turning gripper BDG

The turning gripper is turning the ream automatically for the operator. It can turn 90° right or left and 180°. Also it is possible to unload a 4 side trimmed ream automatically to an unloader. Available for the 132, 168, 225.

Turning gripper BDG e

Special low cost version. Only 90° turn left is possible. Therefore only left lay possible. No unloading to an unloader. Available for the 132, 168, 225.

Backgauge for rear table loading

For rear table loading we provide an exceptionally quick linear drive. This reduces the time required to complete the backgauge travel to the rear loading position to a minimum.

The backgauge travels over a magnet field. Its position is permanently controlled and if necessary re-adjusted. The backgauge drive technology effortlessly compensates for strong impacts without problem.

Knife rack

Storage for the knives and a table to prepare/clean the new knife. Moveable or stationary available.



Turning gripper BDG



Turning gripper BDG e



Knife rack

OPTIONS 76-225

Model	76	92	115	132	132 DS	168	168 L	225
Turning backgauge	-	•	•	•	-	•	-	-
+ downholder	-	-	•	•	-	•	-	-
+ side aligner (BDG)	-	-	-	-	-	-	-	-
+ enlarged clamb bar	-	-	•	•	-	-	-	-
Swivel-/Turning backgauge	-	-	•	•	-	•	-	-
+ downholder	-	-	•	•	-	•	-	-
+ side aligner (BDG)	-	-	-	-	-	-	-	-
+ enlarged clamb bar	-	-	•	•	-	-	-	-
Enlarged clamp bar	-	-	•	•	•	-	-	-
Downholder backgauge	-	-	•	•	-	•	-	-
Press lay aligner	-	-	•	•	-	-	-	-
Side aligner (BDG)	-	-	-	-	•	-	•	•
small false clamp plate	-	•	•	•	•	•	•	-
carbide tipped knife	•	•	•	•	•	•	•	•
Tritech HSS knife	•	•	•	•	•	•	•	•
Anti-stick knife	•	•	•	•	•	•	•	•
micro air nozzle machine table	•	•	•	•	•	•	•	•
Downholder in front of the knife min. 50 mm	-	-	•	•	•	-	-	-
Blowing device for waste chips (with ASE only)	-	-	•	•	•	-	-	-
Adjustable knife speed	-	-	•	•	•	-	-	-
Honey comb device (lowering of front table by 10 mm)	-	-	•	•	•	-	-	-
Moveable rear table guard	•	•	•	•	-	•	-	-
Seperate front table air	-	-	•	•	•	•	•	-
Knife cleaning device	-	-	•	•	•	-	-	-
Minimum clamp pressure for sensitive material	-	-	•	•	•	-	-	-
retractable side gauge right	-	-	•	•	•	•	•	•
retractable side gauge left	-	-	•	•	•	•	•	•
optical cut line indicator with LED	•	•	•	•	•	•	•	•
ASE	-	•	•	•	•	•	•	•
BDG e	-	-	-	•	-	•	-	-
BDG	-	-	-	-	•	-	•	•
CIP 4 Module	•	•	•	•	•	•	•	•
Interactive cutting program generator	•	•	•	•	•	•	•	•
MIS integration	-	•	•	•	•	•	•	•

SAFETY

The cut release is actuated by a two-hand cut start. The down-movement of the knife is immediately stopped when one of the buttons is released.

The self-monitoring light barrier with 50 channels operates fully electronically and is maintenance-free.

It is constantly activated and subject to a check before each cut. The mechanical safety bolt is an additional feature against double-cycling of the knife. All machine functions are monitored and in case of malfunction described on the display.

- Electronic safety light barrier
- Two-hand guard start
- Mechanical safety bolt
- Safety- knife change
- Safety clamp pressure in case of foot pedal activation
- Mechanical shear bolt
- Protection device when reaching under the clamp bar
- A double-tailored retaining spring prevents falling in case of spring fracture.
- CE-mark
- GS certified safety
- Declaration of conformity according machine regulations.

TECHNICAL DATA

Model	92	115	132	132 DS	168	168 L	225
Cutting width	92 cm	115 cm	132 cm	132 cm	168 cm	168 cm	225 cm
Cutting depth	92 cm	115 cm	132,5 cm	156,5 cm	168/200* cm	210 cm	270 cm
Cutting height (without false clamp plate)	12 cm	16,5 cm	16,5 cm	16,5 cm	16,5 cm	16,5 cm	16,5 cm
Table height	87 cm	87 cm	87 cm	87 cm	89 cm	89 cm	89 cm
Clamping pressure min./ max.	200 - 3000 daN	350 - 4500 daN	350 - 4500 daN	350 - 4500 daN	350 - 6000 daN	350 - 6000 daN	350 - 9000 daN
Backgauge speed max.	30 cm/s	30 cm/s	30 cm/s	120 cm/s	30 cm/s	160 cm/s	200 cm/s
Smallest cut without/ with false clamp plate	1,8/5,7 cm	2,0/7,7 cm	2,0/7,7 cm	2,0/7,7 cm	2,6/7,7 cm	2,6/7,7 cm	11/11 cm
Power consumption (with ASE)	4,5 KVA	6 (7) KVA	6,5 (7,5) KVA	10 KVA	10 (12) KVA	15 KVA	15 (17) KVA
Nett weight	2000 kg	3200 kg	3410 kg	3910 kg	5600 kg	6300 kg	7250 kg
Width (with standard side tables)	158 cm	242 cm	259 cm	259 cm	321 cm	321 cm	340 cm
Depth	189 cm	256 cm	273 cm	325 cm	360 cm	420 cm	480 cm

*optional

HIGH-SPEED GUILLOTINE 76

Solid, closed machine table

2 mm stainless-steel plating on the machine table virtually eliminating the possibility of corrosion which can be caused with nickel and chrome refinement. For comfort and ease of turning heavy reams the machine table is closed, forming a strong air cushion. The elimination of the slot gap means no air cushion erosion and no trapped or folded sheets on the bottom of the paper stack.

Precise clamp bar control

In order to precisely control the clamp bar movement the Baumann High-Speed Guillotines provide a new-type kinematics. The foot lever position is directly transferred to the clamp bar, allowing a smooth lowering without shifting the upper sheets.

Side gauges

A further basic requirement is a geometrically perfect machine. The side gauges of the new Baumann are from extra thick-walled aluminium. Only when registering the cutting stock against totally perpendicular side gauges can you expect a precise square cut.

Precision transport spindle

Backgauge drive by means of a precision transport spindle which is precisely linked with a linear guiding with re-circulating ball bearings without play and wear less.



Side gauges



CUTTING WIDTH 76

New ergonomically arranged two-hand cut start

with new programmable touch function. The need to press two levers for the duration of the down-stroke is no longer required, allowing stress-free working for hours.

Backgauge positioning by electronic hand wheel

with high-precision and easy handling.

Backgauge drive by servo motor

Quick positioning of cutting stock with up to 30 cm/sec. Backgauge-speed, – acceleration and – braking are adjustable. Particularly advantageous when processing sensitive cutting stock.

Optimised cutting cycle

Unnecessary waiting times are eliminated, the cutting cycle speed is increased by over 30 %

Clamp bar stop function

The clamp bar stops close to the material, significantly reducing cycle times.

Automated safety knife change from the front

The knife-change protection device provides highest safety standard for the machine operator. Knife chipping during knife change can be eliminated.

Quick knife-change

New knife-changing device (knife lift with setting gauge) with automatic knife fine-adjustment. Adjusting of the knife carrier and switch-off of main motor can be disregarded. (Correction of knife thickness $\pm 0,99$ mm)

Table blower

The air table blower is activated only when required during the cutting program thus saving energy, noise and heat.

Low-maintenance electromagnetic clutch

with smooth engaging of the main drive, protecting the mechanics and transmission.

Options

Rear machine table closing device movable

The movable rear table protection is monitored electrically. The operator has an easy access for cleaning the knife's rear side. Because of safety measures the knife and backgauge motion is locked during this process.

CIP4 Module

Creating of programs from a CIP 4 pre-press file.

TECHNICAL DATA

Model	76
Cutting width	76 cm
Cutting depth	76 cm
Cutting height (without false clamp plate)	11 cm
Table height	87 cm
Clamping pressure min./max.	200 - 2500 daN
Backgauge speed max.	30 cm/s

Model	76
Smallest cut without/with false clamp plate	1,5 / 4,2 cm
Power consumption	3 KVA
Nett weight	1650 kg
Width (with standard side tables)	140 cm
Depth	183 cm

THE NEW TOUCH CONTROL

CIP-data-module:

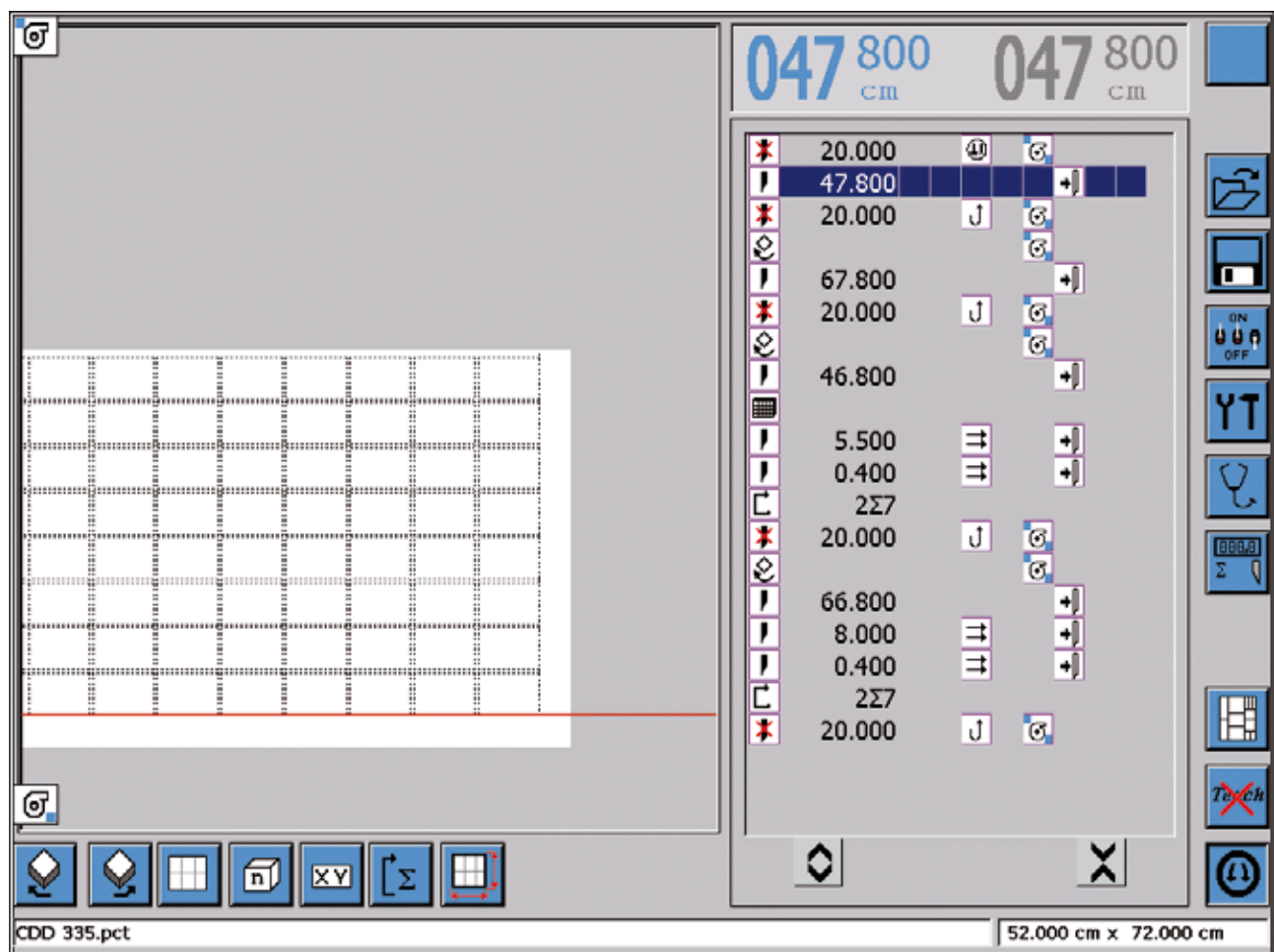
CIP3 and CIP4 (optional)

The CIP-data-module generates a cutting programme including graphical visualisation in a matter of seconds. The pre press data can be transferred via USB stick, Ethernet or wireless LAN. The machine can read CIP 3 or CIP 4 files. The pre-press data is recalled on the guillotine itself, with a push of a button the guillotine creates the cutting program in a few seconds - an additional PC is not required.

Interactive user interface

Basic principle of the control is the manual input via the large 15 inch touch screen. The distances on the screen are minimised for the user, and are logical with few image changes. Only currently relevant and executable actions are displayed.

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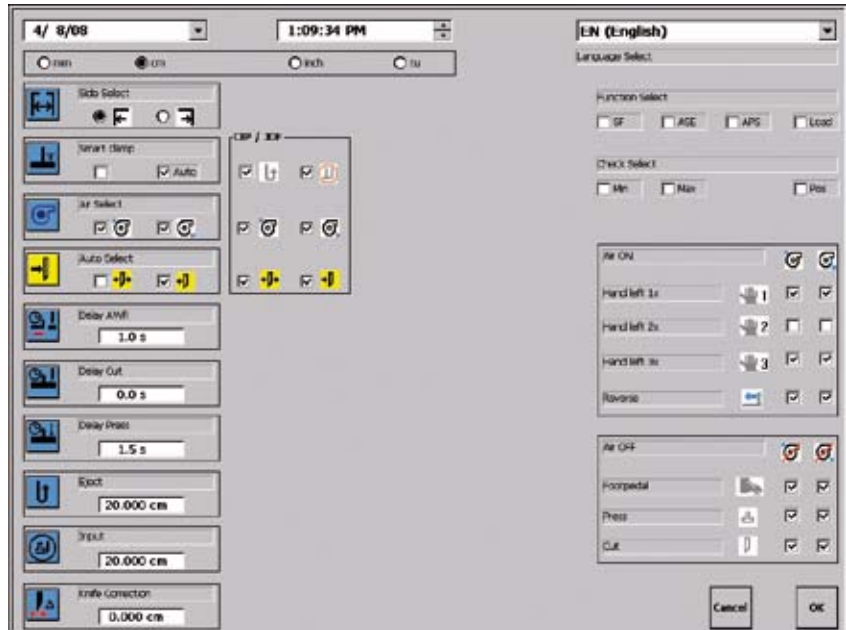
15" high quality TFT Display for a clearly arranged presentation

USB Interfaces

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Operating system Windows CE

High operating reliability. Power failures cause no problems.



SAFETY

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- Declaration of conformity according machine regulations.



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We reserve the right to make technical alternations.