High-Speed Guillotine
76, 92, 115, 132, 168, 225
Wohlenberg High-Speed Guillotine
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
- Search function for programs
**Touchscreen**
19“ high-quality TFT Display in 16:10 format for a clearly arranged presentation

**Industrial control**
More than 10,000 program storage. Each machine equipped with an extensive language package. Further language versions available if required.

**Operating system Windows CE**
High operating reliability. Power failures cause no problems.

**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.

**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.
Wohlenberg High-Speed Guillotine
Cutting widths 92, 115, 132, 168, 225*

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 (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 ± 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.

* 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.
Wohlenberg High-Speed Guillotines

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.

The centre clamping guarantees a precise angular cut
(115-225)
**Wohlenberg High-Speed Guillotines**

**Options**

**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.

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

**Clamp plate for reduced smallest cut**
For small cutting stock, e.g. business cards.

**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.
**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.

**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).

**Front table air — separately switchable.**
For easy unloading of the front table without interfering with the cut copies on the rear table.
Wohlenberg High-Speed Guillotines
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

<table>
<thead>
<tr>
<th>Model</th>
<th>92</th>
<th>115</th>
<th>132</th>
<th>132 L</th>
<th>168</th>
<th>168 L</th>
<th>225</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting width</td>
<td>92 cm</td>
<td>115 cm</td>
<td>132 cm</td>
<td>132 cm</td>
<td>168 cm</td>
<td>168 cm</td>
<td>225 cm</td>
</tr>
<tr>
<td>Cutting depth</td>
<td>92 cm</td>
<td>115 cm</td>
<td>132,5 cm</td>
<td>142 cm</td>
<td>168 cm</td>
<td>210 cm</td>
<td>270 cm</td>
</tr>
<tr>
<td>Cutting height (without false clamp plate)</td>
<td>12 cm</td>
<td>16,5 cm</td>
<td>16,5 cm</td>
<td>16,5 cm</td>
<td>16,5 cm</td>
<td>16,5 cm</td>
<td>16,5 cm</td>
</tr>
<tr>
<td>Table height</td>
<td>87 cm</td>
<td>87 cm</td>
<td>87 cm</td>
<td>87 cm</td>
<td>89 cm</td>
<td>89 cm</td>
<td>89 cm</td>
</tr>
<tr>
<td>Backgauge speed max.</td>
<td>30 cm/s</td>
<td>30 cm/s</td>
<td>30 cm/s</td>
<td>120 cm/s</td>
<td>30 cm/s</td>
<td>160 cm/s</td>
<td>200 cm/s</td>
</tr>
<tr>
<td>Smallest cut without / with false clamp plate</td>
<td>1,8 / 5,7 cm</td>
<td>2,0 / 7,7 cm</td>
<td>2,0 / 7,7 cm</td>
<td>2,6 / 7,7 cm</td>
<td>2,6 / 7,7 cm</td>
<td>11 / 11 cm</td>
<td></td>
</tr>
<tr>
<td>Power consumption (with ASE)</td>
<td>4,5 KVA</td>
<td>6 (7) KVA</td>
<td>6,5 (7,5) KVA</td>
<td>10 KVA</td>
<td>10 (12) KVA</td>
<td>15 KVA</td>
<td>15 (17) KVA</td>
</tr>
<tr>
<td>Nett weight</td>
<td>2000 kg</td>
<td>3200 kg</td>
<td>3410 kg</td>
<td>3910 kg</td>
<td>5600 kg</td>
<td>6300 kg</td>
<td>7250 kg</td>
</tr>
<tr>
<td>Width (with standard side tables)</td>
<td>158 cm</td>
<td>242 cm</td>
<td>259 cm</td>
<td>259 cm</td>
<td>321 cm</td>
<td>321 cm</td>
<td>340 cm</td>
</tr>
<tr>
<td>Depth</td>
<td>189 cm</td>
<td>256 cm</td>
<td>273 cm</td>
<td>325 cm</td>
<td>360 cm</td>
<td>420 cm</td>
<td>480 cm</td>
</tr>
</tbody>
</table>
High-Speed Guillotine

76
**Wohlenberg High-Speed Guillotine**

**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.

- 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
**Touchscreen**

15” high quality TFT Display for a clearly arranged presentation

**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.

**Operating system Windows CE**

High operating reliability. Power failures cause no problems.

---

**Wohlenberg High-Speed Guillotines**

**Safety**

The cut release is actuated by a two-hand cut start. The down-stroke 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 the case of spring fracture.
- CE-mark
- GS certified safety
- Declaration of conformity according machine regulations.
Wohlenberg High-Speed Guillotine
Cutting widths 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 ± 0,99mm)

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

<table>
<thead>
<tr>
<th>Model</th>
<th>76</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting width</td>
<td>76 cm</td>
</tr>
<tr>
<td>Cutting depth</td>
<td>76 cm</td>
</tr>
<tr>
<td>Cutting height (without false clamp plate)</td>
<td>11 cm</td>
</tr>
<tr>
<td>Table height</td>
<td>87 cm</td>
</tr>
<tr>
<td>Clamping pressure min. / max.</td>
<td>200 - 2500 daN</td>
</tr>
<tr>
<td>Backgauge speed max.</td>
<td>30 cm/s</td>
</tr>
<tr>
<td>Smallest cut without / with false clamp plate</td>
<td>1,5 / 4,2 cm</td>
</tr>
<tr>
<td>Power consumption</td>
<td>3 KVA</td>
</tr>
<tr>
<td>Nett weight</td>
<td>1650 kg</td>
</tr>
<tr>
<td>Width (with standard side tables)</td>
<td>140 cm</td>
</tr>
<tr>
<td>Depth</td>
<td>183 cm</td>
</tr>
</tbody>
</table>
**Wohlenberg High-Speed Guillotines**

**Precision**

**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.