Perfection redefined

High-Speed Guillotines

Perfecta
76 – 92 / 115 – 132 / 168 – 225

PERFECTA
Cutting Systems

PERFECTLY

MADE IN SAXONY – GERMANY

Since 1896, Perfecta has been setting new trends worldwide in the development of innovative cutting technology for the graphic industry. Based on over a century of experience in manufacturing guillotines and three-knife trimmers,

Flywheel-driven guillotine ABS (1905)

– changed

A knife hoist, setting gauges and eccentric quick-supporting disks guarantee knife changing within the shortest time.

High-speed guillotines of the latest generation

A good choice for more efficiency.
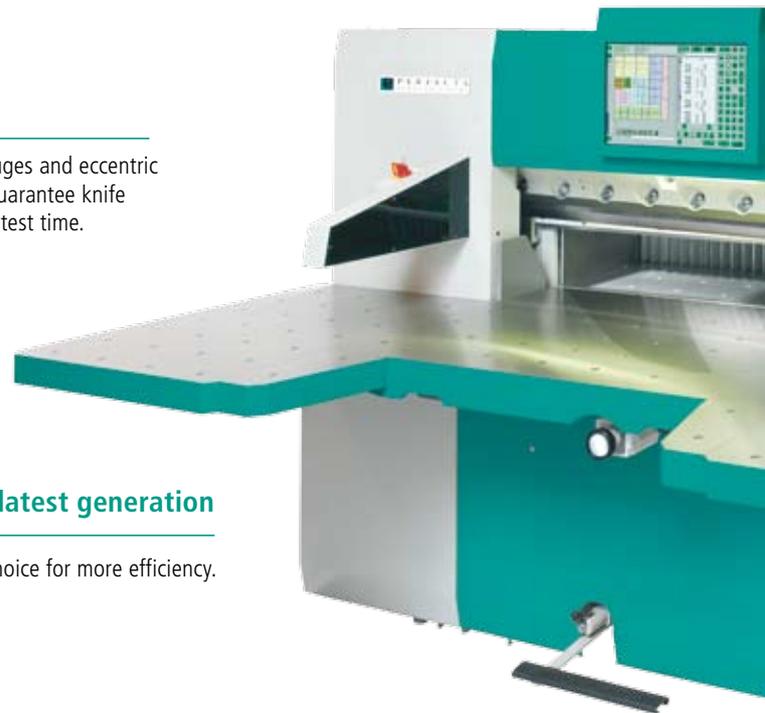
– clamped

Optimum clamping force distribution through bilateral clamp guidance operated by a centralized hydraulic cylinder.
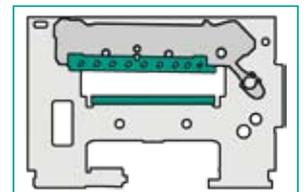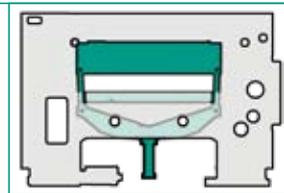
– cut

Engineered to produce the smoothest cut using a slant rocking action via play-free guiding system using a single pull arm and an overload protection device.

– placed

An integrated tool cabinet (available for Perfecta 115–168) always keeps any necessary tools and accessories organized.

Perfecta has developed into one of the top suppliers of ultra-modern cutting systems that is in the highest demand all over the world. Using the latest manufacturing technology and state-of-the-art electronics guarantee the users profitability and maximum quality in the cutting process.

– positioned

Fastest positioning systems – based on a servo-controlled back-gauge for the 76 to 168 machines and on a wear-free linear drive concept used for the 132 to 225 LT-S models – ensure maximum accuracy and efficiency.

– cast in one piece

Doubly enclosed cast-iron machine frame – extremely non-twisting and robust.

– driven

Knife drive mechanism using precision gears – robust and maintenance-free.

– moved

Cutting table with a fully closed surface for ideal stock handling.

– protected

A complete GS-certified safety package.

Small-format cutting

The Perfecta 76's and 92's are modern and highly productive guillotines for the flexible and economic processing of your products.

Perfecta 76 UC

Our smallest high-efficiency guillotine with an attractive cost-performance ratio for optimum cutting quality in the small format range. A small format solution for printers, book binders and offices.

Lateral guidance

The lateral non-wearing and play-free backgauge linear guidance system with a self-locking precision spindle and with automatic thread backlash compensation always acts as a guarantor for exact and material-specific positioning of your stock.

Perfecta UC – the universal variant

Menu-prompted high operator convenience by a colour LCD screen and softkeys. Numerous special functions, repeat programs and a "teach-in" function are available for permanently saving cutting sequences. Offering a memory capacity of up to 6,000 cut marks in 250 different programs, it is best suitable for many jobs. Available for Perfecta 76 and 92.

Perfecta 92 HTVC

The ideal guillotine for the B2 (half size) format. With its versatility, it is superior to other machines of its format class.

Perfecta HTVC – keeping your cut always in sight

This highly luminous 15" touch screen guarantees the operator a user-friendly and legible operating system. Whether your are programming or executing a program, the easy-to-read icons and graphical representation of the sheet division make the HTVC easy to use.
Offering a memory capacity of up to 30,000 different programs and the use of a USB stick give the HTVC an unlimited memory capacity. The Perfecta HTVC is already prepared for network operation. Available for Perfecta 76 and 92.
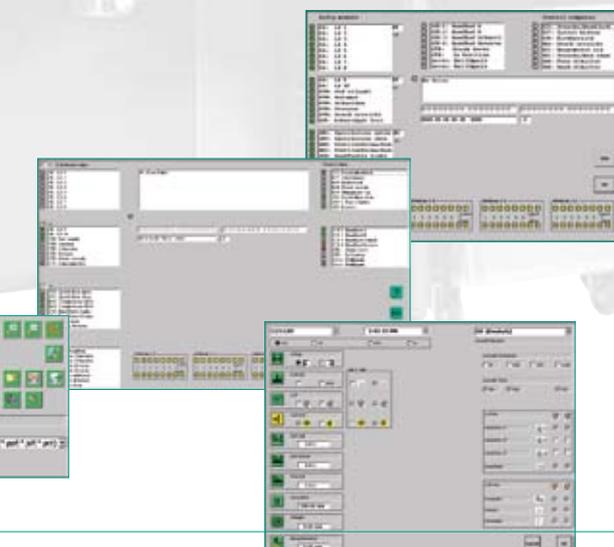
New standards

"New standards" is what we are setting with our Perfecta 115 / 132 high-speed guillotines. They offer you an ideal precondition to be prepared for future market requirements. Whether integrated into an automated system or used as a standalone machine, they offer the perfect solution to any need.

Perfecta 115 TS

Designed for your success. The perfect automatic guillotine that stands out for versatility and will be up to your requirements.

Perfecta TS – the control of the latest generation

All machines having a cut from 115 cm on will come with our newly designed TS control. This TS control redefines operation, for all its associated functions have, for the first time, been integrated into one display unit. A high-resolution 19" colour display in the 16:10 format with a protruding, extremely robust and sensitive touch screen considerably improves operator convenience. The size of the user interface and its clearly arranged structure using easy-to-read icons allow all functions to be operated in an easy and convenient way.

0 - mode

Working as a standard machine (without program function).

- Dimension entries via a virtual keypad

- Calculator function

- Automatic positioning after acceptance

UC - mode

Working as a programmatic machine with restricted range of functions.

- Programming of additional functions

- Quick and easy creating of cutting programs

full size range

Perfecta 132 TS

With this high-speed guillotine, you can conveniently and easily process the B1 (full size) format. Available either with the backgauge guided above the table or as an L-TS variant with linear drive and an open rear table – suited to your entry into an automatic cutting system.
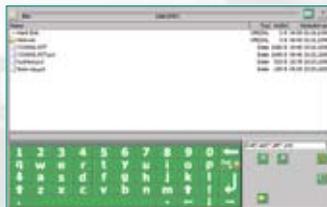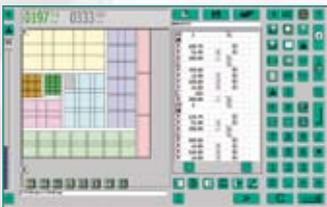
TS - mode

Working as a programmatic machine including process visualization and using the entire range of functions.

- Showing the sheet division and the cutting process

- Easy programming even of complex cutting jobs by graphical interactive mode

- Format programs and automatic clamping force adjustment

Computer - to - cut mode

Prepared for direct utilization of CIP-formatted pre-press stage data to automatically generate cutting programs.

- A time advantage for you and your customers

Optimum format utilization

The maximum sheet diagonal determines the machine model with the required cutting width.

1320 mm

740 x 1060 mm

7
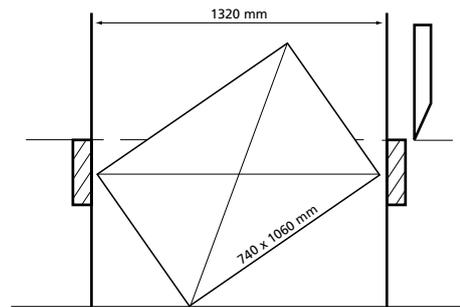
Newly defined large format

Our 168 / 225 machines entirely redefine large-format processing. The question of an increasing economic efficiency of a machine of such class is not only related to the format, but also very strongly depends on the degree of automation and its associated versatility.

Perfecta 225 L-TS

Easy processing of large formats – shown with an Automatic Waste Removal (AWR) unit and an Automatic Positioning System (APS).

Top-mounted backgauge guide

For 115 – 168 size guillotines fed from the front table and being used as standalone machines or within cutting systems, we can still offer our proven top-mounted backgauge guide assembly.

at cutting

L-TS linear drive

The Perfecta L-TS is available in the 132 – 225 cm size guillotines. The lateral backgauge guidance (linear) are offered for cutting systems with rear table loading.

Backgauge linear drive

The L-TS is the first model to use a backgauge linear drive. It provides an almost non-wearing and maintenance-free drive assembly (similar to that of a maglev train). Since the L-TS does not use a leadscrew or conventional drive unit, the maximum traversing rates are not necessarily limited, which, in particular, can be made use of for idle return travelling, with maximum positioning accuracy being always guaranteed.

Perfecta 168 TS

Versatile use from (full size) medium to large formats.

9

Perfectly equipped

Standard features:

- Complete electrical system for 400 V, 50 Hz, or 220 V, 60 Hz, three-phase current
- Lockable main switch
- Main drive motor with star-delta circuit
- Protecting switches for all motors
- Table light
- Cutting line light and preclamping function
- Cast-iron side air tables, right-hand and left-hand
- Air bed unit for the cutting and side tables, complete with blower
- Non-corroding (cladded) surfaces of the cutting and side tables
- Rear and front side gauges on the left and right
- Hydraulic clamping system – hydraulic circuit without oil filling
- Electronically preselectable preclamping time up to 9.9 seconds
- Built-in knife changing device including eccentric quick-supporting disks, knife safety guard, knife lifting device, setting gauges, and eccentric quick-supporting disks for quick changing within 5 min.

- Self-monitoring light guard
- Knife thickness compensation up to ± 0.99 mm (.039″)
- Simultaneous two-hand cut control device
- Mechanical non-repeat device
- CE-conformity knife safety control
- Self-monitoring diagnostic software
- Plexiglass rear table guarding
- False clamp
- Two (2) heavy-duty high-speed steel knives with protective box
- Ten (10) cutting sticks, 10 x 4.5 mm
- Pile support and tools
- One (1) USB stick (except for UC)
- Operator's Manual with Spare Parts Manual electrical diagrams
- GS and CE marks

Optional:

- **ASE (AWR)** – Automatic Waste Removal facility, optional for 115 – 225 models, activated manually or automatically by the cutting program. The front table will open during a cut allowing the scrap to be removed. An advantage not only for cutting programs containing a lot of small bleed cuts, but also for simple cutting jobs. The waste can be optionally disposed of by a conveyor belt installed under the table or directly removed through a central exhaust system. The front table can be lowered to enable the operator to collect small lifts deposited onto a piece of chipboard or similar media for easy removal. place of deposit.

- **Tilting rear guard** – To facilitate quick access to the knife from the rear to clean it when cutting items with glue, for example.

- **Tilt/swivel backgauge** – Simple overcutting/undercutting and squareness correction by motor-driven backgauge adjustment.


- **48 mm false clamp** – Smaller formats such as business cards can be cut without any losses in quality (from P 92 up).
- **Cutting table elevation** – To raise the table up to a height of 950 mm. (37 3/8″)

- **Flexible false clamp** – To compensate height differences in the material, thus ensuring uniform cutting accuracy (see sketch below).
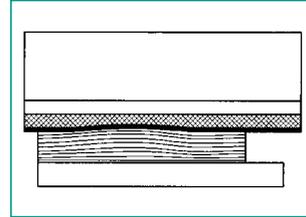
- **Carbide-tipped knives** – The lifetime of such knives being up to ten times as much as that of conventional high-speed steel knives will considerably increase the productivity of your guillotine.
- **USB data card** – To save and transfer cutting programs.

- **Cuttronic** – Our software will enable you to use CIP data generated at the pre-press stage to create your cutting programs. Opening such a file on the Perfecta guillotine will automatically generate the corresponding cutting program. This will save programming time and increase cutting efficiency. Data transfer is handled on a wireless router or hardwire via Ethernet or by a USB stick.

- **Minimum clamping pressure device**

PERFECTA HIGH-SPEED GUILLOTINES

PERFECTA MODEL	Unit	76	92	115	132	168	225
Cutting table width	mm / inch	760 / 30"	920 / 36"	1150 / 45"	1320 / 52"	1680 / 66"	2250 / 88.5"
Feed height	mm / inch	110 / 4.3"	120 / 4.7"	165 / 6.5"	165 / 6.5"	165 / 6.5"	165 / 6.5"
Useful rear table length	mm / inch	760 / 30"	920 / 36"	1150 / 45"	1320 / 52" 1425* / 56"	1680 / 66" 2101* / 82.7"	2600 / 102"
Scrap width							
minimum	mm / inch	15 / 0.6"	18 / 0.7"	20 / 0.8"	20 / 0.8"	26 / 1"	110 / 4.3"
with false clamp	mm / inch	42 / 1.6"	57 / 2.2"	77 / 3"	77 / 3"	77 / 3"	–
Continuous cycle rate	1/min.	50	50	44	44	42	34
Clamping force (min.)	kN / lbs	2 / 440	2 / 440	2.5 / 550	2.5 / 550	3.5 / 770	3,5 / 770
maximum	kN / lbs	25 / 5500	30 / 6610	45 / 9920	45 / 9920	60 / 13230	80 / 17640
Backgauge return speed	mm / s	300	300	300	300 / 1200*	300 / 1800*	2000*
(0 – …	inch / s	12"	12"	12"	12" / 47"(*)	12" / 70"(*)	79"(*)
Main drive power	kW	2.2	3	4	4 (5.5**)	7.5	10
Net weight	kg / lbs	1650 / 2970	2000 / 4400	3200 / 6380	3410 / 6600	5600 / 12320	7000 / 15400

* Perfecta L-TS model   ** Option

GUILLOTINE COMBINATIONS OVERVIEW

PERFECTA MODEL	76	92	115	132	168	225
UC	•	•				
HTVC	•	•				
TS			•	•	•	•
L-TS				•	•	•
AWR			•	•	•	•

DIMENSIONS (mm / inch)

TYP	P76	P92	P115 TS	P132 TS	P132 L-TS	P168 TS	P168 L-TS	P225 L-TS
a	1400 / 55"	1580 / 62"	2440 / 96"	2610 / 103"	2610 / 103"	2935 / 115.5"	2935 / 115.5"	3400 / 134"
b	1400 / 55"	1460 / 57.5"	1660 / 65.4"	1660 / 65.4"	1660 / 65.4"	1815 / 71.5"	1815 / 71.5"	1815 / 71.5"
c	870 / 34.3"	870 / 34.3"	870 / 34.3"	870 / 34.3"	870 / 34.3"	890 / 35"	890 / 35"	890 / 35"
d	290 / 11.4"	300 / 11.8"	590 / 23.2"	590 / 23.2"	590 / 23.2"	485 / 19"	485 / 19"	475 / 18.7"
e	30 / 1.2"	30 / 1.2"	80 / 3.2"	80 / 3.2"	80 / 3.2"	150 / 5.9"	150 / 5.9"	60 / 2.4"
e_1	240 / 9.5"	320 / 12.6"	–	–	–	–	–	–
f	30 / 1.2"	30 / 1.2"	30 / 1.2"	30 / 1.2"	30 / 1.2"	135 / 5.3"	135 / 5.3"	60 / 2.4"
f_1	180 / 7.1"	260 / 10.2"	–	–	–	–	–	–
g	760 / 29.9"	920 / 36.2"	1150 / 45.3"	1320 / 52"	1320 / 52"	1680 / 66"	1680 / 66"	2250 / 88.5"
h	650 / 25.6"	735 / 28.9"	750 / 29.5"	750 / 29.5"	750 / 29.5"	835 / 32.8"	835 / 32.8"	835 / 32.8"
i	1825 / 71.9"	1885 / 74.2"	2630 / 103.5"	2800 / 110.2"	3250 / 128"	3670 / 144.5"	4200 / 165.3"	4800 / 189"
k	135 / 5.3"	290 / 11.4"	290 / 11.4"	290 / 11.4"	–	280 / 11"	–	–

al data

Perfecta 76 / 92

Perfecta 115 / 132 / 168 TS

Perfecta 132 / 168 / 225 L-TS
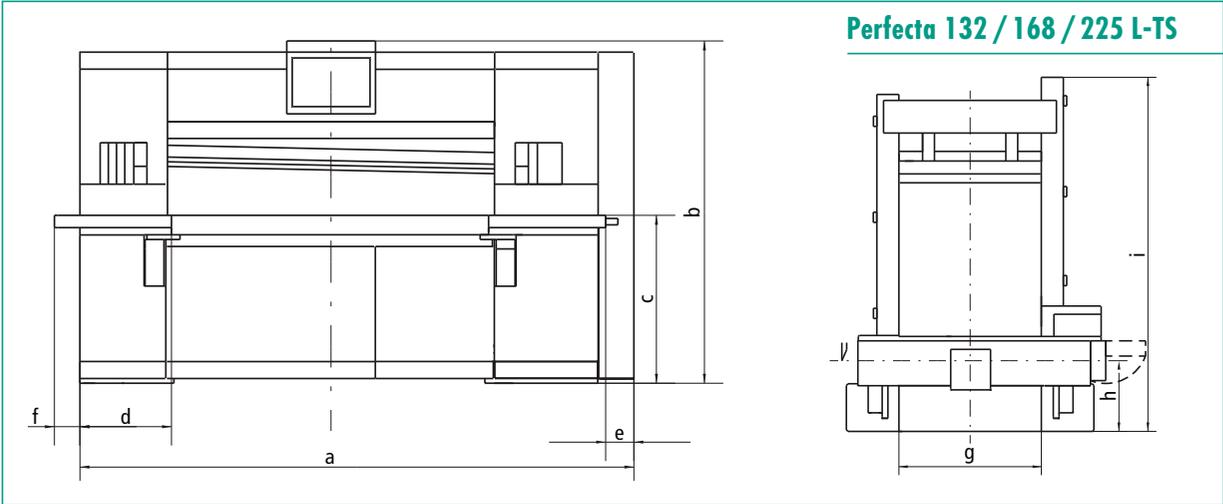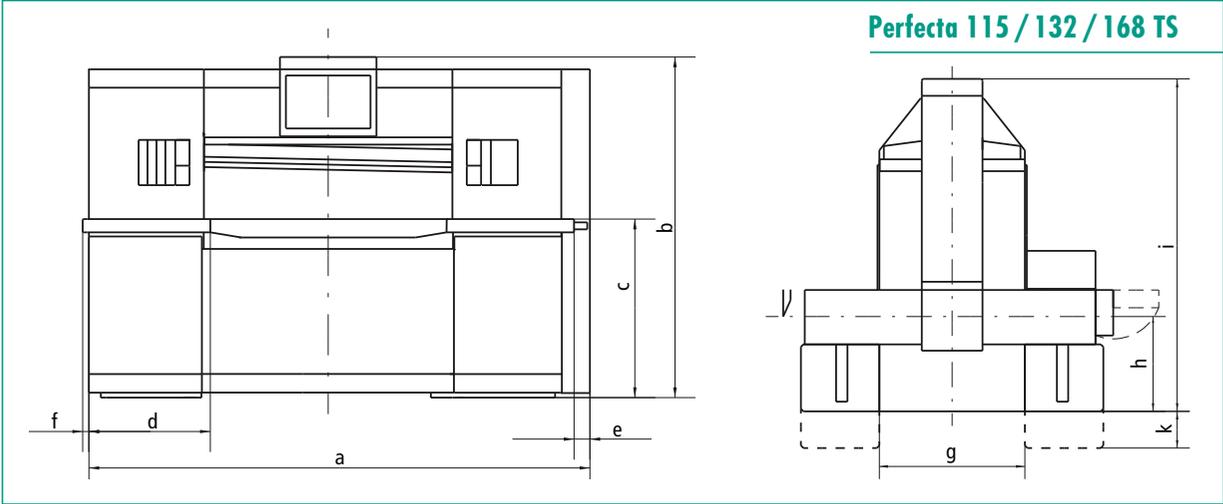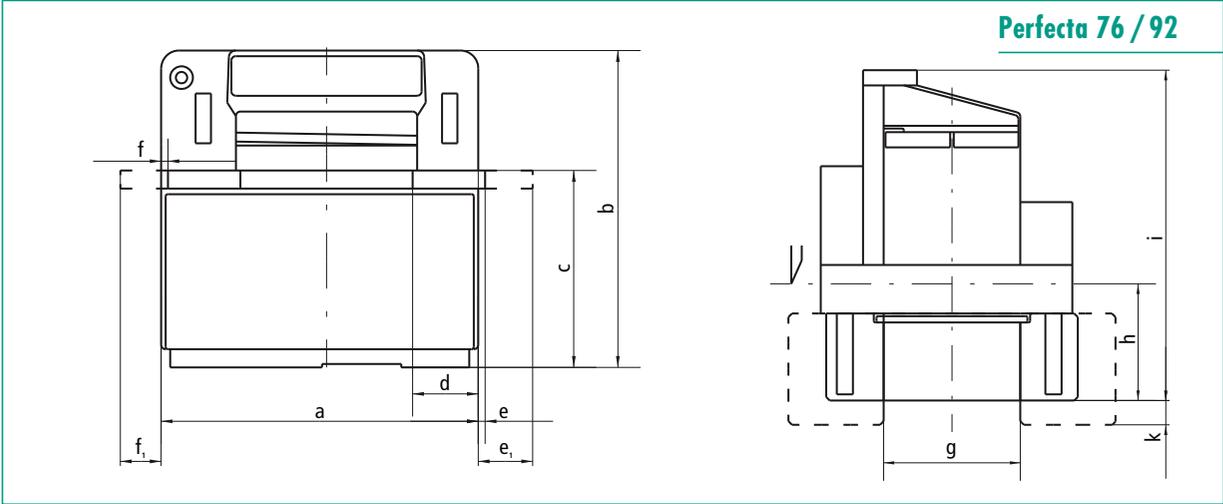
Technical data and illustrations are subject to modification.

Perfect solution

Up to 300 % increase in performance with only one cutting machine. A result of intelligent combinations of high-speed guillotines with corresponding peripherals. Tailored to any format, and always based on the philosophy that has made Perfecta a system specialist in worldwide demand: Perfect precision at utmost safety standards – from the individual component up to the complete configuration.

Lifting and lowering   **Cutting**   **Jogging**   **Loading**

Integrated operator prompting in your native language or programming in the automatic teach-in mode. Ergonomic, clearly arranged and time-saving: TS control using only one touch screen user interface. In addition, the open Perfecta control system serves as an interface for various peripherals.

Air transfer

Connecting individual components with air tables to form a complete system.

Unloading

Automatic unloading of single or two-up piles onto pallets in an efficient and ergonomic way.

Waste removal

Disposing of the cutting waste by conveyor belts.

Perfecta is worldwide

By a factory-authorized network of dealers, we guarantee that our customers will be professionally maintained anywhere and at any time.

Please find your direct, local contact under "Distribution" at **www.perfecta.de**.

PERFECTA
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