![MOHR — CUTTING ON DEMAND]

**MOHR cutters –
for speedy results**

Adolf Mohr has signified success for over a hundred years and the brand has become synonymous with cutting machines worldwide.

MOHR is a trademark of Adolf Mohr Maschinenfabrik, founded in 1906 as a mechanical workshop. Since then the company has not only changed as far as product focusing is concerned, but has ascended from a regional provider to the world's biggest supplier of high-speed cutters and cutting machines.

With over 130,000 high-speed cutters produced and installed worldwide the company today more than ever enjoys a solid reputation as an innovative and reliable partner.

The dynamic growth market of digital printing has gained in every respect from the company's undertaking only to produce the best possible products. In the small format sector, genuine, professional cutting machines are available at conditions which are very advantageous, both from a technical and economic point of view.

MOHR also stands for first-class service. Therefore, a high readiness for operation, preventive maintenance, training of staff and transfer of know-how are the key components of this successful concept.

Highly-qualified technicians on site provide fast, competent and inexpensive service.

The Service Center, which opened in 2006, covers almost 1,500 m² offering more than 20,000 different service parts for machines which have been built in the past 25 years.
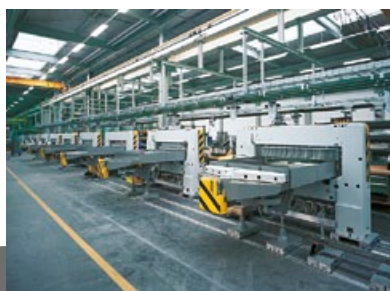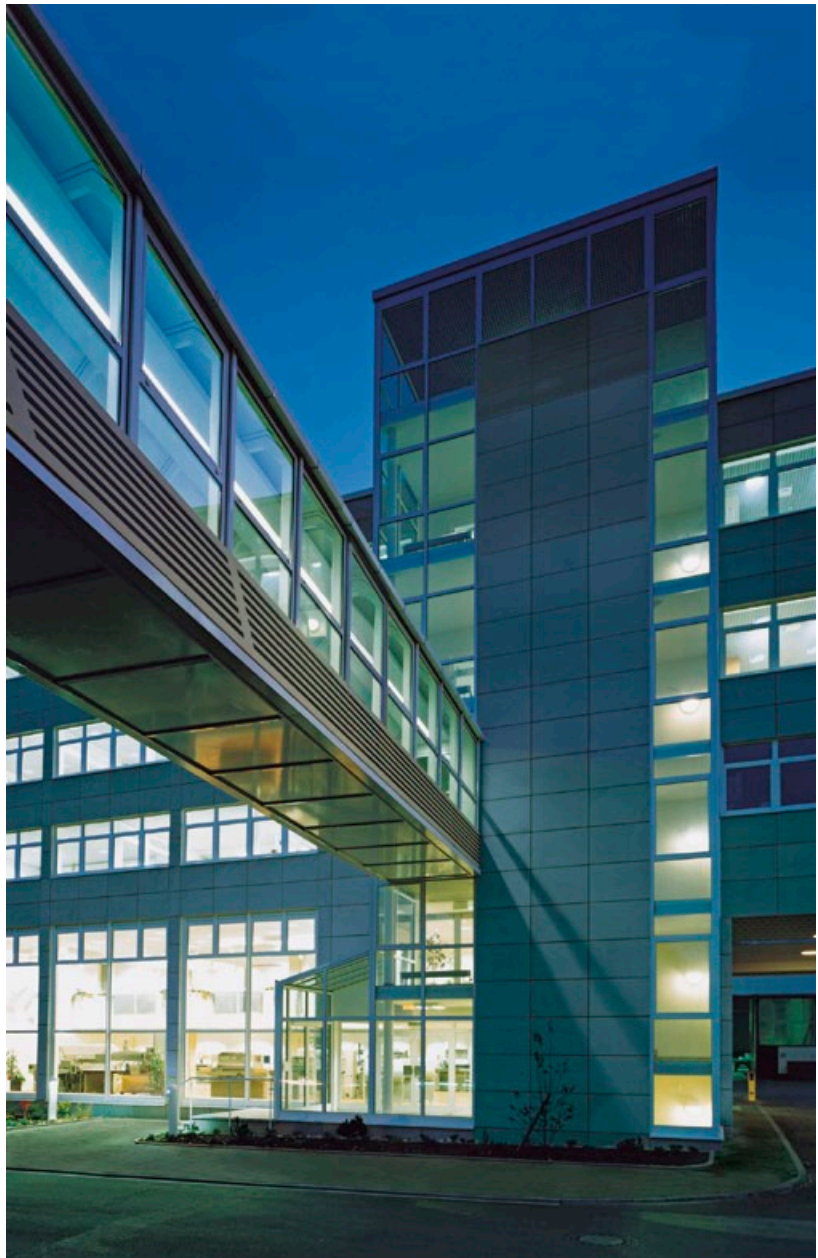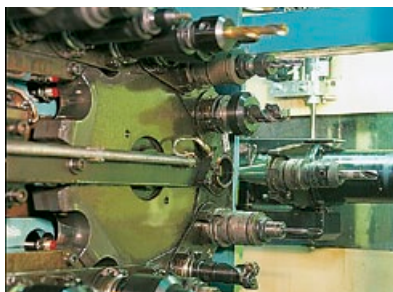
Mohr Cutters are tailored to the specific demands in digital printing

Mohr Cutters are durable, programmable cutting machines with hydraulic drive. Quick-print shops, copy shops, commercial print shops, in-house printers value not only the uncomplicated operation, but also the long service life of the cutting machine. The unique cutting precision is obtained by the sturdy construction and the direct measurement.

The precise and gentle bevel swing cut is carried out hydraulically on all of our models. This allows adjusting the dwell time of the knife in the BDC to the respective material. The corrosion free table surface provides very easy gliding which makes the material easy to handle. On Mohr Cutter 80, this effect is even supported by air jets. The clamping pressure can be continuously adjusted within a large range by means of a turning knob with scale to suit any material to be cut. A variable pre-clamping time control optimizes cutting quality when dealing with different materials. Luminous LEDs indicate the cutting line to the operator.

The highlights

- ■ Wide range of programming options
- ■ Easy knife changing with automatic shutoff in bottom dead center and fine adjustment from the front
- ■ A machine frame with optimized stability takes the forces produced during the cutting process in the best possible way and guarantees maximum cutting precision.
- ■ Minimum expenditure of maintenance thanks to innovative materials
- ■ Digital workflow integration (only NET model)

Mohr Cutters provide convincing technology

In the major technical features Mohr Cutters benefit from the bigger members of the family:

Bulk hydraulic power pack with double pump ensures a long-lasting safe application

Linear ball bearing – maintenance-free and extremely precise

A cutting stick ejector eases and abbreviates the knife change

Transparent rear-table cover ensures the best possible illumination

Direct measurement via rotary transducer flanged to the spindle

LED cutting-line indicators ensure optimum illumination, even when lighting is poor. The indicator can be clearly seen on many materials.

Backgauge rakes with plastic gliders treat the table surface with care

Knife depth can be conveniently adjusted from the front

Comprehensive standard equipment rather than options.
The two models

ECO

The machine is operated via an ergonomically arranged control panel with 5.5" monochrome display and extra low-profile keyboard. Repeat sequences can be saved in one of 198 available memory positions and even be adapted at any time. The cutting programs are either generated manually or menu-driven and intuitive via block programming.

Functions:

- ■ Low-profile keyboard with easy-to-understand symbols
- ■ Menu-driven knife change
- ■ Programming during cutting
- ■ Block programming available
- ■ Format tables
- ■ 198 program memory locations
- ■ Program information with plain text
- ■ Cutting cycle shown with symbols
- ■ Programmable jogging mark
- ■ Clamping time before cutting
- ■ Clamping without cutting
- ■ Programmable ejector
- ■ Protect program
- ■ Lubrication interval signal

NET

The machine is operated via an ergonomically arranged 18.5" touch-sensitive display. Repeat sequences can be saved and adapted at any time. To do so, the system has 1,998 memory positions available. Due to digital workflow integration Compucut® takes the cutting data supplied as ppf or jdf files direct from the prepress stage. Compucut® generates the cutting program automatically. In order to start the cutting program automatically, the machine is furnished with a bar-code reader. This allows setup times to be reduced to almost zero. The process visualization gives the operator a graphic indication of the material handling. This minimizes the proneness to errors considerably.

Additional functions as compared with ECO:

- ■ Prepress data is taken as a basis for generating cutting programs (P-Net Service Compucut®)
- ■ A bar-code reader facilitates easy loading of cutting programs
- ■ Process visualization for a graphic indication of material handling reduces the proneness to errors
- ■ Production report for acquiring the machine performance data
- ■ 1,998 Program memory positions
- ■ Progress control
- ■ Copy program

Measuring up!

Technical Data		Cutter 56	Cutter 66	Cutter 80
Cutting width	mm	560	670	800
Feed depth (C)	mm	560	670	800
Feeding height, max. (without false clamp plate)	mm	80	80	100
Length of front table (D)	mm	670	670	670
Table height	mm	900	900	900
Clamping pressure, min.	daN	180	180	180
Clamping pressure, max.	daN	1,200	1,500	2,700
Backgauge speed, return stroke (0 - ...)	mm/sec	70	70	130
Knife speed	Cycles/min.	20	20	20
Thickness of knife	mm	9.70	9.70	11.75
Grinding reserve (HSS18 knife) max.	mm	22	22	25
Smallest cut, manual, without false clamp plate	mm	–	–	15
Smallest cut, automatic, without false clamp plate	mm	15	15	15
Smallest cut, automatic, with false clamp plate	mm	50	50	50
Noise emission (EN 13023)	dB(A)	76.5	76.5	76.5
Installation Data				
Width (B)	mm	1,150	1,250	1,550
Depth (A)	mm	1,670	1,825	1,970
Frame height (E)	mm	1,500	1,500	1,500
Weight, total net	kg	575	675	900
Static floor load	daN/m^2	330	330	626
Dynamic surcharge	%	20	20	20
Electr. power draw (apparent power)	kVA	2.2	2.4	4
Thermal output	BTU/h	7,135	7,784	12,973

Subject to technical alterations

Available accessories:

■ Cutting sticks (Set of 10 items)

■ HSS-knives

■ Carbide-tipped knives

■ Knocking block

■ EasySlide

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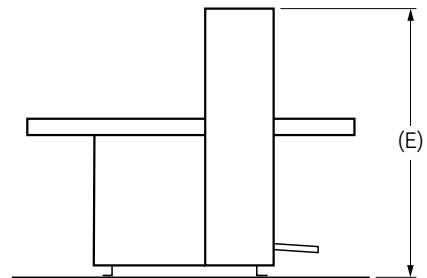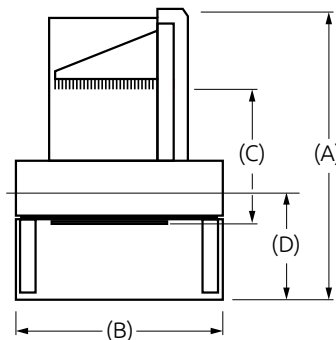
Sneaker networks may be sporty, but P-Net ensures intelligent exchange of data in post-press

Workflow Integration with P-Net is standard on all NET models. The central networking component is the P-Net Server which forms the principal control system for the following P-Net services.

ESPV

ESPV is an abbreviation of the German term for External Cutting Program Administration. With ESPV a deliberate number of cutting programs can be stored on the central P-Net Server. In addition, P-Net organizes a fast and efficient exchange of cutting programs between all the cutting machines which are connected to the network.

Compucut®

For more than 25 years, Compucut® has allowed to generate cutting programs outside the high-speed cutter reducing the programming times at the machine to zero. This increases the productivity of the high-speed cutter even when very simple sheets are cut. Direct from the prepress stage the cutting data is supplied as ppf or jdf files. From these files Compucut® generates the corresponding cutting program, either manually or automatically, depending on the customer's specification. In order to ensure the best possible program cycle Compucut automatically optimizes the cutting programs by adding the required comments, additional functions and information for operators. Once the cutting program has been set up, it will be sent to the high-speed cutter via P-Net. The operator can see a graphics of the sheet and the corresponding handling. This process visualization helps to minimize the proneness to errors in the cutting process significantly.

Bar code

The cutter has a bar-code scanner incorporated. Once the bar code has been read, the allocated cutting program is automatically started. There is no tedious search for the right cutting program and, consequently, there will be no operating errors.

Prepress

P-Net Server   ESPV   Compucut®

Barcode   Barcode   Barcode
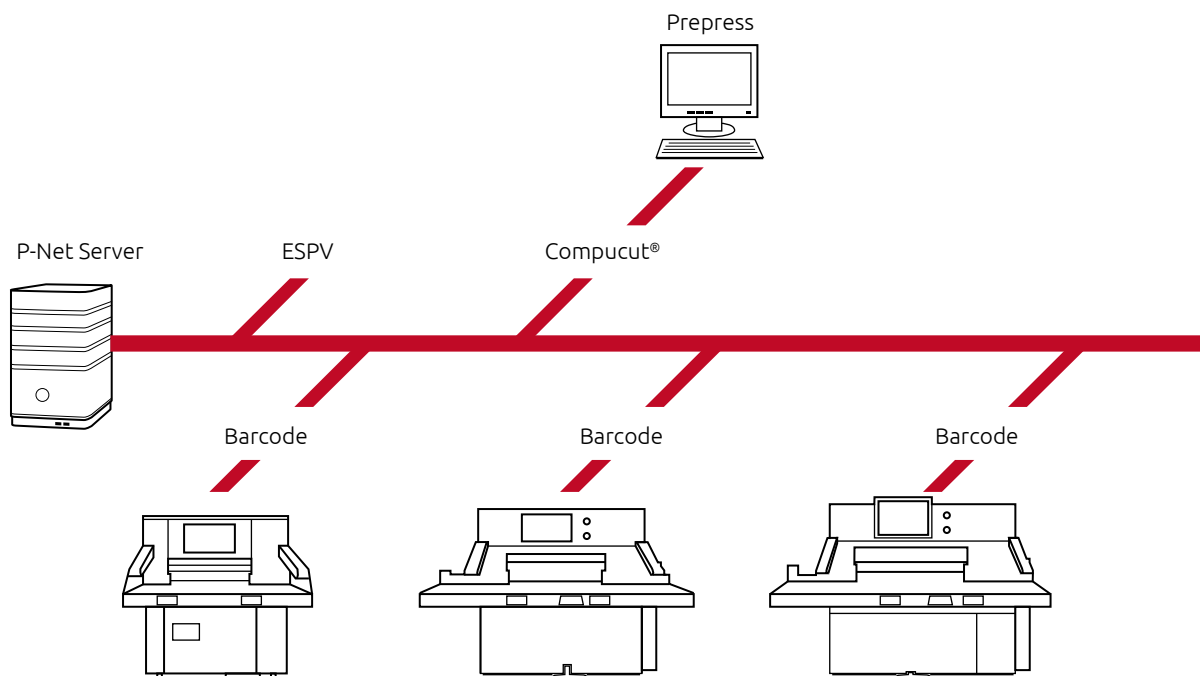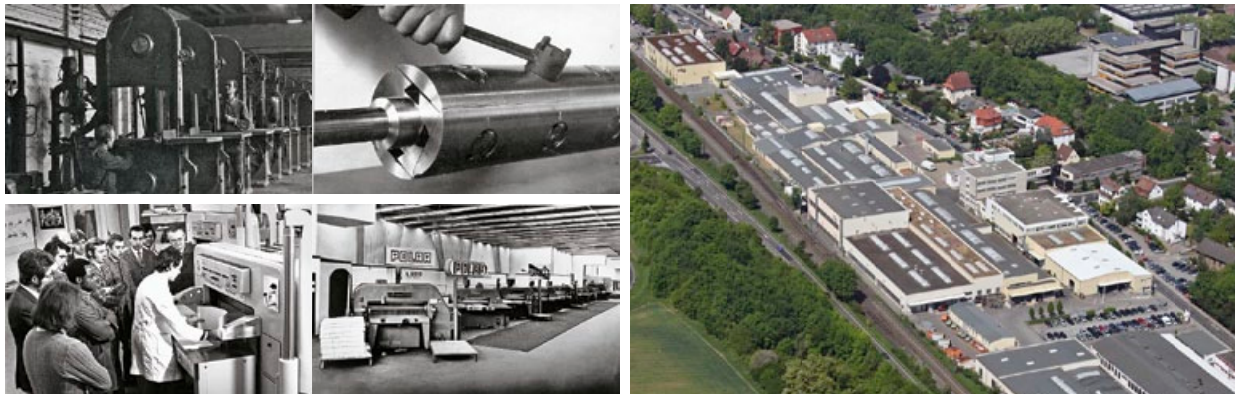
An independent family-owned business has developed into the world leader

It marks an important milestone in the life of a family company to be able to look back over more than one hundred years of history.

Adolf Mohr was an entrepreneur, bringing vision and strength to bear in creating the roots of something that people in this company are developing successfully, to this very day. Technological developments have always met the customers' needs and ensured that the products of Adolf Mohr Maschinenfabrik are now globally regarded as synonymous with state-of-the-art high-speed cutters and ergonomic systems.

This reputation is an eloquent reflection of the confidence that our company has enjoyed on the markets for decades.

Process automation is expertly being implemented by employing systems.

- Cutting Systems streamline the finishing process

- Jogging Systems increase the efficiency before the cutting process

- LabelSystems for square-cut and die-cut labels give the product that distinctive design

- P-Net is an Ethernet-compatible network connection for production data communication

Today, with more than 200 agencies in 170 countries, the Sales and Service Organization is in close proximity to its customers and, by maintaining a constant dialog and exchange of experiences with its international service centers, has gained a substantial lead in the development of technical solutions.

The performance profile of this family-owned business marks it out as a strategic partner when it comes to intelligent finishing solutions of continuous value.

For further information on products and company see:
www.mohr-postpress.com

MOHR