PräziMark

Computer-controlled hot-foil stamping machine Type PMK

Computer-controlled hot-foil stamping machine

PräziMark is a hot-stamping machine to be used in library bookbinderies and in the specialty advertising industry. It is designed for jobs requiring frequent copy changes (book titles) and for one-off personalization.

The machine works with the well-known system of a heated printwheel. All functions are controlled by a Personal Computer (not included in delivery).

The software to control the machine can be used with the following operating systems: Windows 2000/XP®/Vista®.

PräziMark has many uses:

- Hard-bound books
- Document folders
- Presentation covers
- Ring binders
- Photo albums
- Luggage tags
- Ribbons
- Vinyl & leather gift items
- Diaries and calendars
- Name badges

… as well as any soft surface that can be blocked with hot-stamping foil.

Stamping jobs can be done quickly, with high-quality output and at low costs.

Technical data:

Floor space:	approx. 80 x 80 cm	**Throat depth:**	340 mm
Height:	approx. 70 cm	**Insert size:**	340 x 600 mm
Weight:	approx 120 kgs	**Product thickness:**	0 - ca. 20 mm
Power supply: 230 Volt / 50 Hz / 0.6 kW (A.C.)		**Printing speed:**	100 - 150 char. / minute
Air pressure supply: 5 bar		**Warm-up time:**	10 - 15 minutes

Subject to technical alteration.

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The principle of operation

PräziMark may be compared to a modern printer with a PC connection. It is connected to a serial interface (RS-232) of the PC and works similar to a daisywheel printer with a heated printwheel.

Data is entered into the PC or imported from external sources (floppy disk, network) so that all standard editor functions can be used. The program controls whether the lines are to be flush left, centered or flush right. Alignment is thereby exactly calculated (in .001 inch [1/40mm] steps).

The material to be stamped is placed onto the table and (depending on the machine version) text is positioned automatically.

All print functions are controlled by PC with the exception of the material thickness and the stamping depth which are adjusted on the machine. No further adjustments are required. After the stamping process the table returns to the position defined individually to remove the ready product.

PräziMark can stamp at a rate of 100 - 150 characters per minute, depending on the dwell time and the frequency of changes between upper- and lower-case characters.

This results in the following realistic outputs which can even be increased if jobs are prepared well:

• approx. 50 - 80 book cases per hour for five to six-line titles with an average of 10 characters per line.

• approx. 150 - 200 one-off personalizations per hour at an average name length of 20 characters.

PräziMark is hence designed for small series and one-off titles and can therefore be used ideally in the following industries:

• in library binderies to stamp frequently changing titles on to book cases

• in the advertising industry, where for example diaries are personalized (i.e. stamped with names) in large quanities

• to individually mark bound reports etc., for example at business, management or tax consultants.

Each machine is equipped with special material supports which are adapted to the products to be stamped and therefore enable the operator to quickly place the product.

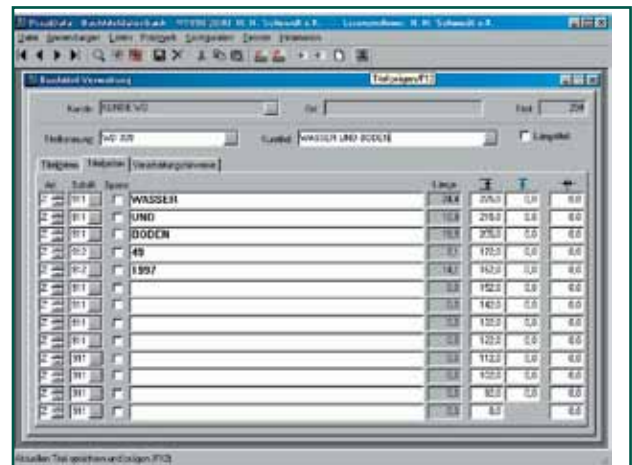Moreover, we supply a software package with each machine especially designed for the range of application of the machine in question. Currently the following software packages are available: "*PräziData*"for stamping book titles (database for book titles), "*PräziName*" for one-off personalization (import, database and analysis) and "*PMK-Cover*" for marking reports (data transfer from a network, database).

For special uses we modify the above software packages according to customers' individual requirements.

Typestyles and printwheels:

All typestyles of your Windows® operating system may be used for producing the printwheels. The most common type styles are shown in our special type style catalogue. Amongst these type styles there are also most of the HAAS styles available so that the type face used so far does not need to be changed.

With each type style, we supply a floppy disk with a font table which is required to control the printwheel on the *PräziMark*.

This ensures that the correct character width of each type style and size is used.

Moreover, individual font tables can be created, for example to stamp with spaced characters with one printwheel after this special font table has been loaded.

Depending on the printwheel and the type style, sizes from 10 to 36 point can be manufactured. Customized characters can also be made, for example company logos can be engraved on receipt of a litho film.
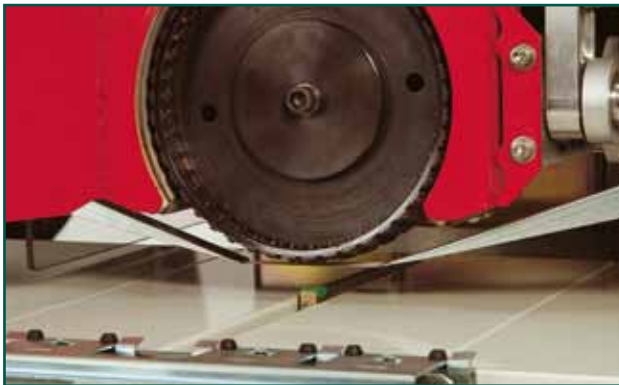
PräziMark

However, the maximum size of these characters is limited to the size of the type body (normally 8 x 8 mm and/or 11 x 11 mm).

Wheels with 2 rows are available with 60, 72, 80, 90 or 100 characters. Wheels with 4 rows have 160, 180 or 200 characters. For stamping soft surfaces (e.g. foamed book covers) we recommend wheels with 72 and/or 160 characters. On these wheels, the distance between the characters is bigger. Like this, a deeper stamping is possible which is especially required for soft products.

Without further information, the body of wheels with two rows is equipped with 90 characters, the body of wheels with 4 rows is equipped with 180 characters.

A printwheel with 90 characters can either be equipped with one type style and size with upper and lower case characters

or with two type styles and sizes with upper-case characters only. The same applies to printwheels with 180 characters which can either be equipped with two or four different styles. As printwheels can be equipped individually by the customer, many other combinations are possible. Further information is available upon request.Each character can easily be exchanged by the operator so that replacement of faulty characters (e.g. if the wheel has dropped and damaged) can be done locally and at low costs. Therefore, the combination of characters on a printwheel can also be changed at a later point of time.

PräziMark is versatile:
All materials that can be lettered with hot-stamping foil can also be blocked with *PräziMark* on the condition that the products have an flat, even surface (round objects cannot be stamped).

The machine can be adjusted to a maximum product thickness of approximately 20 mm. In one process, an area of 34 x 34 cm (and/or 28 x 28 cm) can be stamped.

Besides the standard material supports described below we also make special supports for almost any product and thereby adapt all machines to their designed application.

Versions
The *PräziMark* is available in two basic versions for the following main applications:

For one-off personalization and company prints in the diary and book industry Type PMK 213 and PMK 414 are used.

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Both models have continuous table of size 30 x 30 cm. At its back, it is equipped with a pneumatic material support. Bevelled book block supports are mounted on both sides of the stamping table which hold the open diary/book during the stamping process.

Diaries and books are always stamped with open front cover, so that without difficult adjustments, small diaries up to thick books may be processed.
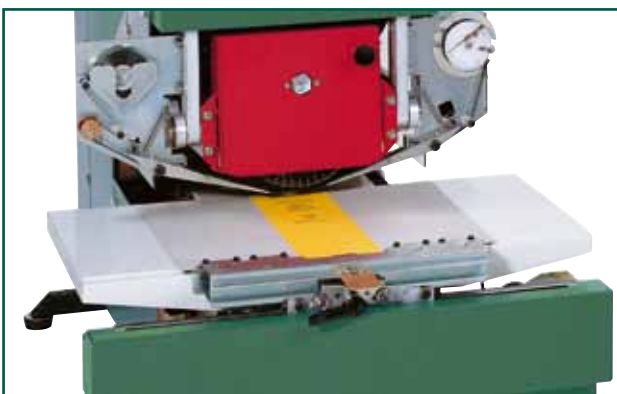Stamping texts may consist of one or several lines. The software controls the exact position of the text on the book.

Type PMK 213 uses printwheels with two rows with 60, 72, 80, 90 or 100 characters. Type PMK 414 addtionally works with printwheels with four rows with 160, 180 or 200 characters.

For use in **library binderies to stamp book cases** Type PMK 203 and PMK 404 have been developped.

These two models have a divided stamping table which has a standard support for book cases at its front. This support may easily be exchanged for the book cover support vertical book cases which is also included in delivery. As an optional extra, we offer a centralizer which automatically centers the book cases for stamping on the spine.

Depending on the software used, book titles may have up to 26 stamping lines which are positioned on the cover automatically.

Type PMK 203 uses printwheels with two rows with 60, 72, 80, 90 or 100 characters. Type PMK 404 additionally works with printwheels with four rows with 160, 180 or 200 characters. These are of great advantage when different styles and/ or sizes are to be stamped on one product. No printwheel change is required which accelerates the stamping process considerably.

Operating skills
No detailed knowledge of hot-foil stamping is required. However, the operator should have basic knowledge in order to be able to choose the right foil, temperature and dwell time. As there are no general rules, some of these specifications have to be found out by testing.

The operator should also have basic knowledge of the PC operation systems (Windows98®/2000®/XP®).

Optional accessories
As an optional accessory for PMK 203 and PMK 404, we offer a **centralizer** for book cases. When stamping horizontal or lateral book titles, the centralizer pushes the book case to the middle automatically which ensures that the title is exactly centered.

Another accessory is a **heater box** which is recommended if several printwheels are used. The printwheels not being used are placed in the heater box to maintain normal working temperature so that after a wheel change, work can continue without delay.

Advantages of *PräziMark*:
- Hand set type and heating up of stamping lines is eliminated
- Stamping lines are entered, edited and stored in a PC
- Data (e.g. lines of names) may be imported and processed without modifying the data. Therefore errors caused by manual editing are eliminated.
- The software is adapted perfectly to the individual use
- The machine is quiet, clean and compact

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