

HSB 13.000 – The Customized

... because time is money too



Hohner Maschinenbau GmbH

Our obligation to meet your individual needs –

Six good reasons to choose Hohner:



Three generations behind your success

A history developed over three generations cannot be bought, but you can sense and feel it. It is an indirect, daily influence on the spirit of our company.

With over 75 years of experience and success in machine building and over 50 years of specialization in the print finishing and wire stitching arena, Hohner today combine their experience in traditional technology with a forward looking philosophy towards companies entering the saddle stitching sector of the market for the first time, or those who are ready to take the next step towards customized and modular saddle binders. Either way, we guarantee a long term, successful co-operation.

Leader in technology

Dependability and longevity, with the incorporation of quick set-up times and operator friendliness of our products. This is what Hohner Technology in print finishing and expressly in the wire stitching market is all about.

Innovation

Our obligation to meet your needs is at the centre of our philosophy. We have a close co-operation with our existing customers, listening to their specific suggestions from an operator's point of view. Combine this with the expert knowledge of our highly motivated, qualified staff and you create the foundation for ongoing technological development. This is how we ensure that you will always be one step ahead with our products.

Quality

Since the first day of our existence we have set benchmarks in precision and development work. This warrants a quality which, above all, pays off for our customers.

An international distribution network

Keeping in touch with the market is important to us. That is why we offer worldwide availability of our stitching technology combined with expert consultancy from our headquarters in Germany. You can also count on our teams at our companies in China, Spain, UK and USA: We all want you to be satisfied, because your satisfaction is our success.

Service

Individual consultation, flexibility, fast reaction times, long term availability of replacement parts, quick delivery, friendliness, international orientation: all these are much more than catchphrases for us.

We believe these terms are fundamental to the values of a business relationship and you will experience them with us, every day.

HSB 13.000 – The Customized

High-technology for the future – flexible & efficient



The HSB 13.000 is our most forward thinking solution, requiring a minimum amount of personnel, to complement your efficient workflow in the saddle binding element of your Bindery with shorter set-up times. Totally automated, if desired – even down to the compensating stacker – the HSB 13.000 can, like no other, be changed from one job to another, from small formats up to a maximum DIN A3 in a matter of minutes.

This is especially relevant in a changing market where production runs are becoming shorter but the products are becoming more complicated.

Intelligent programming ensures the automated repetition of all components and settings in the system.

The new drive technology combined with “Motion-Control”, a special automation software, represents a complete state of the art drive system. This guarantees that tasks which have been run once can be repeated at any time with a simple push of a button because all components automatically reset to their previous positions.

Your demands of top quality machinery and high efficiency together with Hohner’s renowned ease of operation are perfectly combined in our **customized HSB 13.000**.

Customized, operator friendly & intelligent

The advantages in short:

- Optional automatic default settings of all components and units – even including stitching heads.
- The touch screen uses symbols which are easy to understand and makes navigation through the setup procedure easy. The subsequent control of all relevant components, and monitoring of the machine’s operations, are also clear and precise.
- Operator friendly adjustment.
- Ergonomic feed station height.
- Minimum personnel required.
- Maximum format untrimmed: 485 x 325 - 350 mm (Max. sizes cannot be run simultaneously)
- Maximum format trimmed: 480 x 345 mm
- Sequential on – off switching.
- Integrated stitch control.
- Automatic central lubrication keeps time required for maintenance low.
- Motor driven adjustment of all components – including stitching heads.
- Equipped with the world-wide established narrow stitching heads by Hohner, the leader in technology.
- Knives combined in a yoke.
- Twelve linear ball screw bearings for high precision guidance and extremely long endurance of the knives.
- Easy adaptation of the creasing station between inner and outer scores.
- Optional remote error diagnosis.
- Modular system with easy, individual customization to your requirements. (Many optional configurations available: from 1 manual feeder to 16 automated signature feeders, automated cover feeder [or alternatively, 18 signature feeders without cover feeder] two-up device, 2:1 feeder selection, stitch control, compensating stacker and trim waste management system.)
- Electronic hand wheel for trimmer settings (self synchronisation when leaving the set-up mode)

Additional Options:

- Small format
- JDF capability
- Vacuum accomplished by noiseless ejectors instead of vacuum pumps
- Remote diagnostics, including video conferencing capabilities
- Optical system on feeders for quality control through image comparison and bar code recognition
- Up to 6 automated, narrow stitching heads
- Inline punching, perforating and corner rounding
- Economic LED illumination for all components
- Production date acquisition
- Extended process modes (i.e. variable suction timer on cover feeder)
- Customizable automation levels

The components in detail:

Vertical feeder



Cover feeder



Touch screen

In colour and 15 inches square our central touch screen offers easy handling, a clear structure, and ideal visualization. All product information and current machine status can be immediately and accurately read with just one glance. In addition, each separate component of the stitcher can be “fine tuned” using conveniently located touch screens. Product and order information is entered via a logical and operator friendly menu.

We make a service team on location basically unnecessary; an ethernet interface makes it possible to remotely diagnose your machine from our factory, offering immediate advice and help from our experts. Hohner is on top of it all!

Signature feeder

Of course vertical feeders are a standard feature and at an ergonomic height designed to make an operator’s life easier. This way we can guarantee gentle sheet processing and greater volumes in the feeder. We can also offer an alternative option in the form of horizontal feeders. Sequential monitoring ensures that each feeding station has fed correctly. Each feeder is also equipped with a colour display for individual precision adjustments, even when the machine is in production. Specific information concerning signatures can be stored individually and retrieved on demand at any time. The grippers can be changed from front to rear automatically and completely without the use of tools, the same applies to suction settings.

Another useful feature is that all our feeders can be tilted away and upwards enabling free access to the chain and allowing manual feeding or the integration of a card gluer etc.

For Hohner, ‘operator friendly’ is more than just a saying.

Cover feeder

Our cover feeder is designed to be at an easy operating height and demonstrates the modular nature of this machine; it can be added at any time in the future. It also utilizes the vertical feeding principle and can therefore be loaded with more sheets than horizontal cover feeders. This also ensures that the potential for marking is reduced significantly and an extremely smooth running passage to the inner or outer creasing station for an accurate folding of the cover (easily changed from one to the other). Marking is no longer an issue. Last but not least this cover feeder is equipped with an intelligent double sheet control which utilises a new ultrasound adjustment-free system. Your quality is important to us!

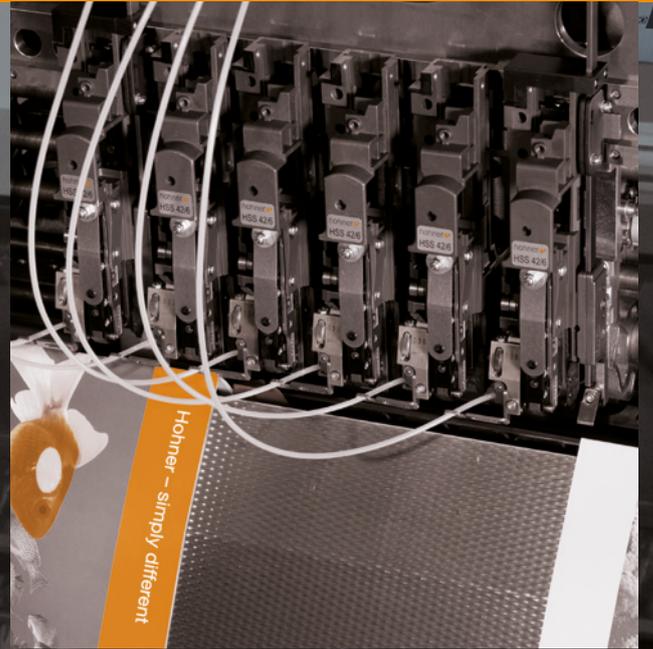
Caliper

Tried and tested, our thickness control has proved to be an extremely useful feature. A simple touch of the teaching button is all that is necessary and the control sensor reads and saves the exact dimensions. Intelligence that saves time!

Caliper



Stitching unit



Stitching unit

Hohner narrow stitching heads are generally known for reliability in any situation. The combination of the modular wire stitching unit in the HSB 13.000 and the special stitching heads that were specifically developed for this saddle binder, offer the user additional, fundamental advantages. Flying stitching heads ensure that the product is stitched while moving and that the product flow is not interrupted. With the optionally automated settings, time consuming adjustments to the standard stitching head and clincher box are a thing of the past. The wire feed, which is separated from the stitching head in the HSB 13.000 and operated by an electric drive, dramatically reducing moving parts in the heads, thereby decreasing wear. The sheets are handled as gently as possible at all times. Flexibility, speed and precision – all to your advantage.

Delivery

A unique delivery unit, specially designed by Hohner, transports the sheets quickly and precisely via a cleverly designed gripper rail transport system at a 90 degree angle to the trimmer transfer. This is operated by a shuttle that has been designed for optimal performance within the operation of the HSB 13.000. The advantages of this 90 degree technology are obvious: The sheets are, irrespective of changes in speed, always correctly positioned for transport into the next stage of the process. Thanks to the generous radius of the guide rollers, marking on the brochures is reduced to the minimum.

Hohner knows what you need and always finds unique solutions for faster, more flexible working with high quality standards.

Trimmer in-feed

Tried and tested technology has been applied, adapted and perfected in the trimmer in-feed as well. The products reach the trimmer by way of a belt and roller system after being aligned by side guides. The use of modern materials also ensures ideal surface protection.

That's what Hohner calls 'customer orientated'!

Trimmer

Even in this component all relevant parameters for three sided trimming are automatically adjusted at the push of a button. Even two-up production (available as an option) can be adjusted in only a matter of minutes.

A new electronic hand wheel allows extremely easy handling of the trimmer adjustments; a simple turn of the wheel activates for example back and forward movement of the trimmer, the knife change (two-up production) and even a self synchronisation after leaving the set-up menu. Innovative gear box technology allows gentle braking of the belts, so that even products travelling at higher speed are slowed down gently as they arrive at the backstops. Quiet running and cutting accuracy characterize this trimmer. The knives are combined in a yoke and are guided by twelve ball screw bearings. This results in a totally accurate guide system which does not allow any movement, ensuring an extremely long life of the blades.

For optimum protection of the surface of the product, the transportation belts come to a complete standstill during the cutting process. Quality - a Hohner strength.

The trimmer also now offers a number of options for individual customization.

Trimmer



Compensating stacker



Shingle delivery

The Hohner shingle delivery will automatically batch products on the delivery belt. According to space requirements, it can be offered in either a straight line or 90° version. An optional offset delivery allows more time to bundle, as it alternates batches either side of the delivery belt.

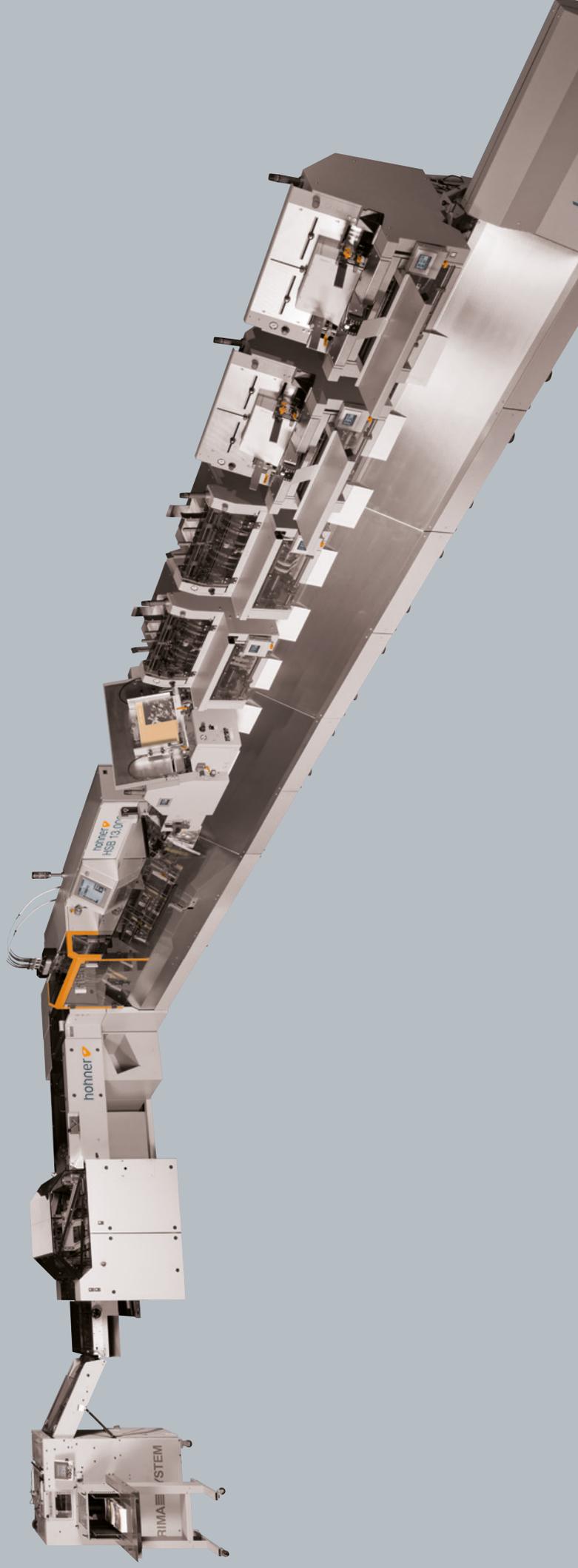
This gives you more order and easy recognition during production. Thinking of the customer – another Hohner quality.

Compensating stacker

Even the compensating stacker is integrated in the automation of the saddle binder and takes over all relevant information, adjusts independently to current requirements, and adapts to stack heights and turning points. Lateral joggers ensure perfect stacks.

The collecting bin has two levels. Depending on how the stacker is programmed, level one primarily collects single or multiple batches and level two stores the pre-collated piles ensuring a clean transfer to the turntable, and exit to the delivery table.

Precision to the finish. Intelligence paired with flexibility and ease of operation.



Technical information HSB 13.000

Thickness capacity of trimmer:	12 mm in single production, When taking out a gutter, thickness is half of the width of the gutter
Maximum stitching thickness:	6 mm (for normal staples), (optional: loop stitching L6 maximum 3 mm and L8 maximum 2 mm)
Trim allowance:	up to 50 mm on all 3 sides (depending on format)
Stitching heads:	up to 6 HOHNER Narrow HSS 40/6 Stitching Heads
Maximum feeder pile length of vertical feeder:	approx. 250 mm (depending on paper)
Production speed:	500 - 13.000 products per hour (infinitely variable)
Maximum number of feeders:	16 plus cover feeder (or 18 feeders without cover feeder)
Supply voltage:	400 Volt, 3 phase, 50/60 Hz

Nominal operating current:

standard configuration (6 feeders + 1 cover feeder)

Ejector: 22 Amp.

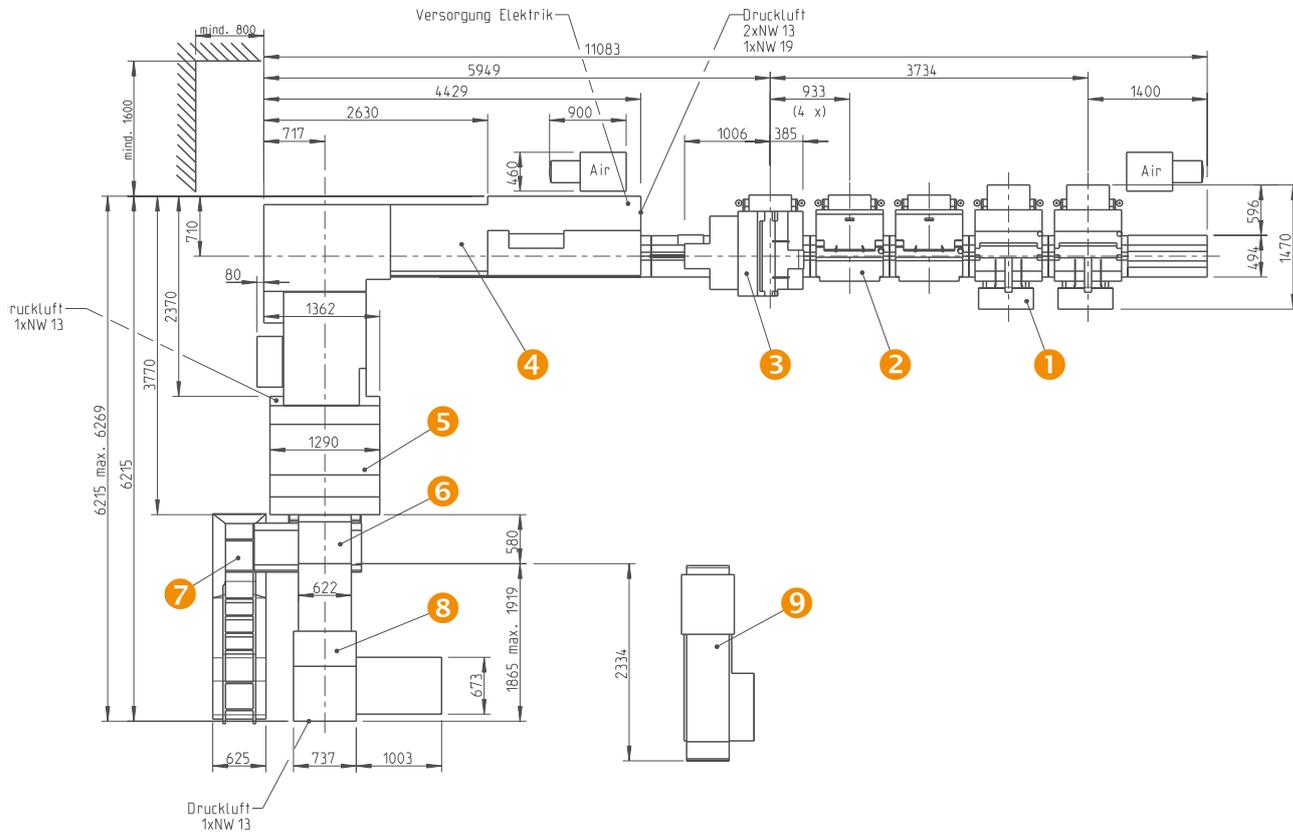
Vacuum pump: 43 Amp.

Further configuration on request

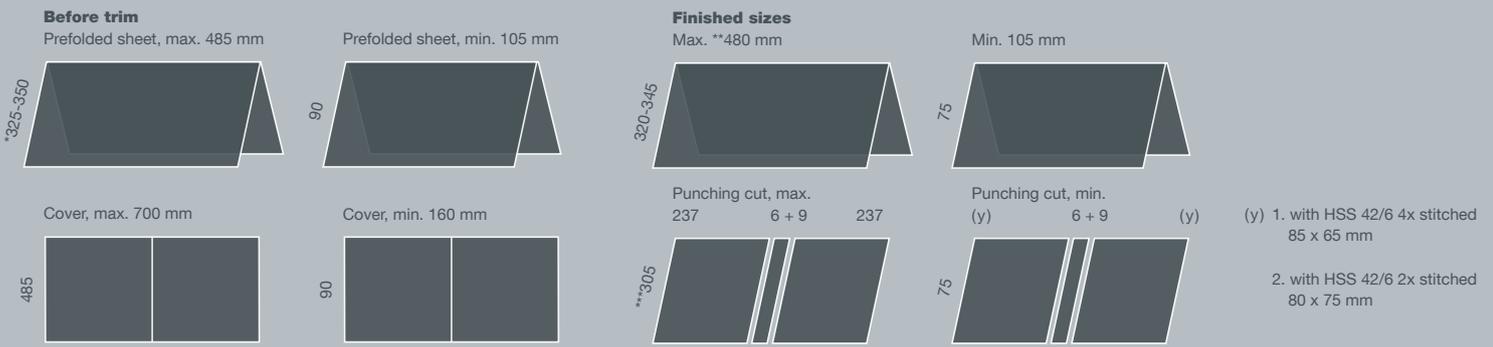
Subject to technical changes

HSB 13.000 – Technical information

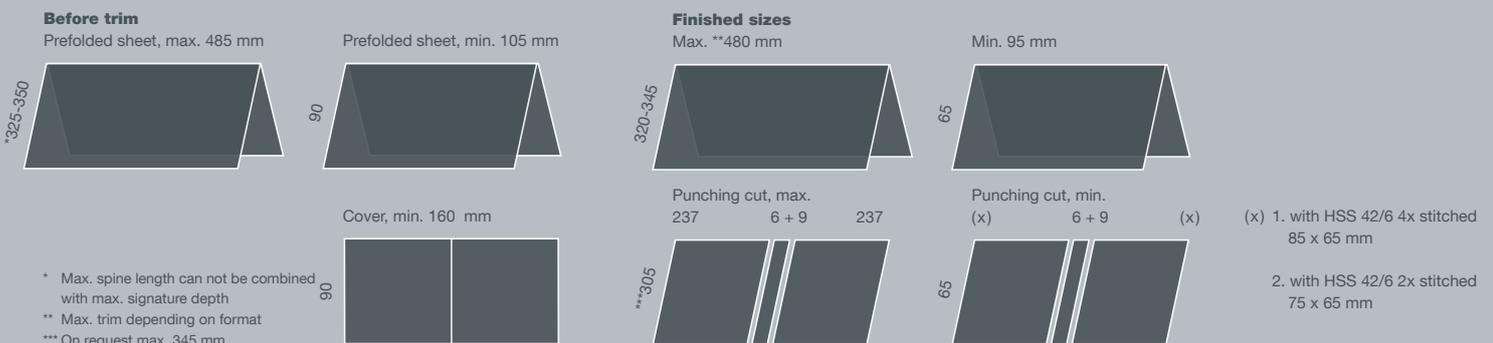
- ❶ Vertical Feeder
- ❷ Horizontal Feeder
- ❸ Cover Feeder
- ❹ Stitching Unit with Interface
- ❺ Trimmer
- ❻ Delivery
- ❼ Waste Delivery
- ❽ Cross Stacker
- ❾ Shingle Delivery (180°, 90°)



Standard format



Small format (optional)



* Max. spine length can not be combined with max. signature depth
 ** Max. trim depending on format
 *** On request max. 345 mm

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