

BOOKLETMAKING

COMPLETE. RELIABLE. EFFICIENT.

Focus on quality:
NAGEL FOLDNAK 8.



WE CREATE A PROFESSIONAL IMPRESSION

NAGEL

Combined quality.

■ **Booklet making the modern, reliable and profitable way – with the perfectly coordinated Nagel products, you can put together a bookletmaking system tailored to your individual needs. Due to their modular design, the Nagel units can be combined and expanded at any time.**

Small volumes are produced just as easily as larger quantities – the system can collate, fold, square-press, press and trim up to 2,000 booklets an hour.

The great benefit of a Nagel combination: The machines communicate with each other. If a malfunction occurs, the system is shut down immediately to prevent spoilage.

Bookbinders, digital printers, offset printers, copy shops or in-house print plants – they all profit from the proven Nagel quality: Well thought-out details and processes ensure a smooth production, and the units are easy to handle, set up and operate.

Here's a way to make good use of the booklet function of your copying machine or printer – and to turn the printed paper into an attractive booklet. Booklets are the ideal medium for presenting sales brochures, manuals, operating instructions, price lists, programmes, etc.

Complete bookletmaking system NAGEL S8



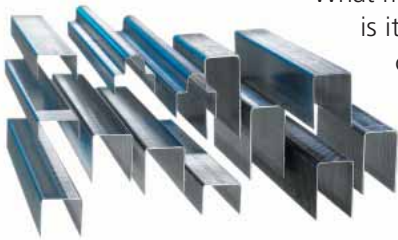
Binding costs are negligible. And with the Nagel bookletmaking line, booklets can be produced on demand – quickly, on a day-to-day basis.

NAGEL FOLDNAK 8. One machine. Many benefits.

■ Precise stapling, accurate folding – the Nagel Foldnak 8 bookletmaker is extremely versatile, comes with a wide range of standard equipment and requires very little set-up time. If the Foldnak 8 is combined with a Nagel collator, the units need not be realigned after a format change, since all Nagel units work with a centre register.

The NAGEL FOLDNAK 8 is flexible.

■ What makes this machine so versatile is its wide range of formats. It can handle everything from the minimum format of 105 mm x 210 mm to CD booklets up to SRA 3 format. The operator can



change from loop staples to normal staples without resetting the unit – with up to four staples per booklet. The unit also includes a corner and edge stapling function.

■ The short set-up times save time for production. Except for the back and side stops, adjustments are not required. Four stapling heads can remain permanently installed – even if only two heads are used. This saves installation and conversion time.

■ Closed side stops ensure a perfect paper transport. The stops can be easily adjusted by means of a user-friendly guide. The Online Box can process statically charged paper, thanks to the integrated jogger and the feed belt with guide roller.

■ Accurate spine stapling with the patented Foldnak principle: The unit staples and folds in one pass, without moving the paper, so that the staple always sits directly in the fold. Mobile clenchers make for particularly long-lasting booklets. The stapling technique with the original Nagel stapling head is proven and reliable. The stapling head is very robust and can process loop staples and standard staples without conversion.



The NAGEL stapling head.

■ The comprehensive standard equipment includes an adjustable delivery conveyor, automatic release, side jogger, reset counter, signal lamp, misfeed control, staple empty indicator, mis-stapling control.

Spoilage is prevented by means of a detection system. The simple handling saves time and money. Wear parts can be replaced, keeping maintenance costs low.

NAGEL FOLDNAK 8.



NAGEL FOLDNAK 40.
Medium runs. High quality.

■ Perfect for in-house print shops and copy shops: The Nagel Foldnak 40 bookletmaker takes all qualities of paper using both standard and loop staples. Corner and edge stapling function is available as an option. Changing formats is easy, from CD booklets to SRA 3 size and any size in between.

■ Working in conjunction with the Nagel collator or friction tower collators by other manufacturers, the Nagel Foldnak 40 can produce up to 1,500 booklets per hour – reliably, precisely, and in the well-known Nagel quality.



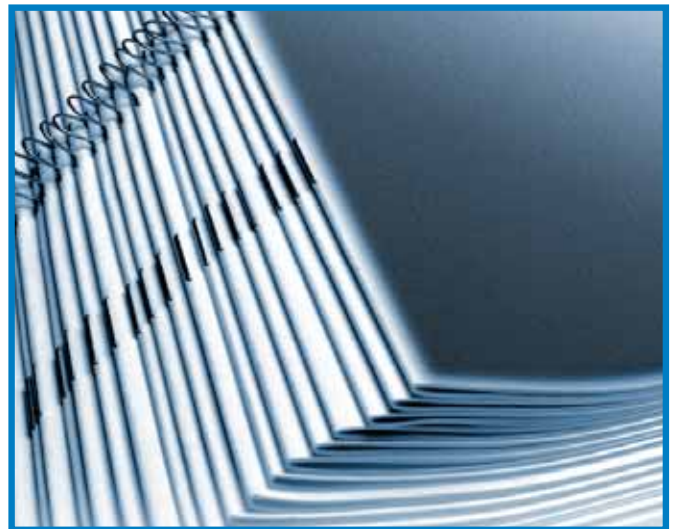
NAGEL
FOLDNAK 40.



NAGEL FOLDNAK M2.

NAGEL FOLDNAK M2.
Professional presentation with booklets.

■ The Foldnak M2 bookletmaker with easy push-button operation turns digital and offset prints into professional booklets. It can process formats ranging from A5 to SRA 3 and uses either standard staples or the convenient loop staples. The M2 has an integrated edge stapling function to permit both booklet and edge stapling, with a simple conversion to change from one mode to the other.



Specifications

	FOLDNAK 8	FOLDNAK 40	FOLDNAK M2
Sheet size min./max. (mm)	105 x 210, 325 x 450 DIN A5, DIN A4, DIN A3 SRA 3 and special formats US: ledger, letter, legal	120 x 210, 325 x 450 DIN A5, DIN A4, DIN A3 SRA 3 and special formats US: ledger, letter, legal	148 x 210, 330 x 448 DIN A5, DIN A4, DIN A3 US: ledger, letter, legal
Cover sheets	Cardboard or thick paper	Cardboard or thick paper	Cardboard or thick paper
Max. thickness (booklets)	2,5 mm (approx. 25 x 80 g)	2,5 mm (approx. 25 x 80 g)	1,5 mm (approx. 15 x 80 g)
Max. thickness (pads)	4 mm (approx. 40 x 80 g)	3 mm (approx. 30 x 80 g)	2 mm (approx. 20 x 80 g)
Max. number of booklets per hour (sets/h)	2,000	1,500	500
Wheeled stand	integrated	•	•
Mobile clenchers	✓	–	–
Stapling head positions (distances in mm)	6 (30 x 50 x 80 x 50 x 30)	4 (50 x 80 x 50)	4 (50 x 80 x 50)
No. of stapling heads standard (max.)	2 (4)	2 (4)	2 (4)
Staple types	26/6, 26/8 S, Ri 26/6	26/6, 26/8 S, Ri 26/6	26/6, Ri 26/6
Loop staples	✓	✓	✓
Staple capacity/head	210	210	210
Stapling head for 5,000 cartridges	•	–	–
Delivery conveyor	✓	•	–
Paper tray	–	•	–
Corner and edge Stapling	✓	•	✓
Feed belt with guide roller	•	•	–
Collator online	•	•	–
Trimmer online	•	•	–
Automatic side jog	✓	✓	–
Total counter	✓ (with reset function)	✓ (with reset function)	–
Automatic release	✓	✓	–
Misfeed control	✓	✓	–
Magazine control	✓	✓	–
Staple empty control	✓	✓	–
Power supply	230 V 50 Hz 0,3 kW or 115 V 60 Hz 0,3 kW	230 V 50 Hz 0,3 kW or 115 V 60 Hz 0,3 kW	230 V 50 Hz 0,1 kW switchable 115 V 60 Hz 0,1 kW
H x W x D (cm) net	without/with conveyor 87 x 61 x 56 /127	without/with conveyor 88 x 60 x 52 /102	29 x 49 x 51
Weight (kg)	109 net /143 packed	60 net /65 packed	35 net /38 packed

- ✓ Standard
- Optional
- Not available

NAGEL S8. Reliable efficiency.

■ Nagel S8: Reliability creates efficiency. The S8 suction feed collator is tailored to the specific needs of medium-sized print shops and binderies. Due to its extremely short set-up times, the S8 is particularly suited for frequently changing run lengths. It can be operated with one, two or three towers, as needed. With three towers, the S8 can collate up to 24 sheets/96 pages.



Threefold performance.

■ Each tower can be used separately and has a maximum output of 5,000 sets per hour – the large capacity of the individual bins makes frequent reloading unnecessary.



The highest loading capacity of its class.

■ The speed can be adjusted infinitely and there is only one set in the machine at any time. This prevents paper jams and spoilage. All 24 bins of the S8 have an automatic miss feed and double feed detector and will not draw in overlapping sheets.

■ The separate suction and blast air adjustment for each tower is particularly useful when sheets of different paper types are collated. Due to the smart suction belt design and the easy make-ready, even inexperienced users can set up the machine after a short instruction.



The hand marrying station of the S8.

Flexibility is its strong point.

■ The Nagel S8 is very flexible in its application: At the push of a button, the user can switch from three-tower to single-tower operation. The unit delivers to the right or the left. An internal offsetting stacker and an external large-volume jogger permit collating of numbered sets. The external jogger can be set to straight or criss-cross stacking and is equipped with a filling height sensor. The S8 checks the sensor and deactivates the jogger in time to prevent overfilling.



S8 – external jogger.

■ As part of a bookletmaking system, the S8 ensures a fast and reliable inline collation of the printed matter, which can then be folded, stapled, square-pressed, pressed and trimmed. The finishing process in the proven Nagel units creates a high-quality booklet.

S8	
Sheet separation	Suction belt with air-blast
Max. capacity cover bin	130 mm
Max. capacity bins 2 – 7	65 mm
Bins per tower	8
Operation	LCD-Display
Sheet size min./max. (mm)	105 x 160/364 x 520
Recommended paper weight	45–240 gsm depending on paper quality and atmospheric conditions
Speed max. (sets/h)	5,000
2 or 3 tower system	•
Total counter	✓
Batch counter	✓
Sheet insert mode	✓
Block mode (linking bins)	✓
Double feed detector	✓
Sheet length detector	✓
Miss feed detector	✓
Empty bin	✓
Paper jam detector	✓
Offsetting stacker (60 mm max.)	•
Criss-cross jogger (120 mm max.)	•
Hand marrying unit	•
Stand	•
Bookletmaker	• (FOLDNAK 8)
Square pressing	• (SP Plus)
Front edge trimmer	• (Trimmer)
Power supply	230 V 50 Hz 1 kW single phase or 115 V 60 Hz
H x W x D net (cm)	214 x 65 x 77
Weight net/packed (kg)	160/190

✓ Standard

• Optional

Added value: Spine finishing with the NAGEL SP PLUS SQUARE PRESS.



**NAGEL SP PLUS
SQUARE PRESS OFFLINE.**

■ Nagel SP Plus Square Press: Forms the spine of the stapled booklet to give it the look of a high-quality perfect bound book. Advantage: The spine can be printed. Easy and space-saving stacking, storage and packaging; the booklets no longer open on their own. The SP Plus is very flexible in its application: Offline, it can be used as a mobile finishing unit, as online version installed directly behind the Foldnak 8, it represents a fast and reliable inline solution.



NAGEL SP PLUS SQUARE PRESS ONLINE (centre).

■ Processes up to 30 sheets per booklet in formats up to 350 mm x 250 mm. If the booklet spines are pressed once, the SP Plus achieves an output of up to 1,200 sets per hour offline, and up to 1,500 sets per hour online.

NAGEL SP PLUS SQUARE PRESS

	SP Plus offline	SP Plus online
Max. sheets of booklet (80 gsm)	30	30
Speed (booklets/h)		
Single pass	1,200	1,500
Double pass	1,000	1,100
Min. booklet size (mm)	105 x 105	70 x 105
Max. booklet size (mm)	350 x 250	350 x 250
Power supply	100–230 V 0,3 kW	100–230 V 0,3 kW
Bypass mode	–	✓
H x W x D net (cm)	40 x 75 x 42	86 x 50 x 71
Weight net/packed (kg)	71/91	100/120

- ✓ Standard
- Not available

Booklets pressed with the SP PLUS SQUARE PRESS (left). Without the SP PLUS SQUARE PRESS (right).

A cut above: The NAGEL TRIMMER

■ Gives the booklet an accurate front trim. Advantages: No expenses for staff, fast processing, no operating errors and no intermediate stacking. Nagel quality pays off: The upper transport belts come together in the shape of a funnel – even thick booklets are fed without problems.



The NAGEL TRIMMER with pressing station.



NAGEL TRIMMER inside.

■ The run-on of the transport belt can be adjusted to ensure that the front trim will be exactly parallel to the fold of the booklet. The booklets are pressed before trimming to make them lie flat and give them a sharp fold. This pressing function makes the Nagel Trimmer unique in its class.

■ Operating the trimmer is easy: After a change of format, only the trimming position must be adjusted.

■ The Nagel Trimmer can be linked to the Foldnak 8, Foldnak 40 and SP Plus Online. It can also be integrated into an existing bookletmaking line.

Trimmer	
Paper formats (of booklets) min./max.	DIN A6, DIN A5, DIN A4
Max. thickness of booklets	5 mm (approx. 50 x 80 g)
Press station	✓
Adjustable belt run-on	✓
Upper transport belts	✓
Power supply	230 V 50 Hz 0,6 kW or 115 V 60 Hz 0,6 kW
Bypass-Modus	✓
H x W x D/without conveyor net (cm)	87 x 55 x 96
Weight net/packed (kg)	160/250

✓ Standard



Finishing in digital printing: The NAGEL ROBO-FEEDER.

■ The Nagel Robo-Feeder reduces the cost and manpower involved in bookletmaking: Due to its short set-up times, this special feeder is particularly suited for small, medium, and frequently changing run lengths in digital printing. Its versatility enables digital print shops to process even highly specialized jobs at a profit.

■ An important feature of the Robo-Feeder is the insertion of heavy cover stock. The feeder combines black-and-white sheets and coloured cover sheets without any problems. The separate suction and blast air adjustment ensures a gentle processing of digital prints and prevents marks on sensitive surfaces. The optional mark reader supports fault detection in case of a wrong order of sheets, thereby reducing spoilage. It also allows the user to produce booklets with different numbers of sheets. This function is valuable for personalized prints in particular.

■ Linking the Robo-Feeder to the Foldnak 8 bookletmaker, the SP Plus, and the Trimmer will create a production line in which booklets are collated, stapled, folded, square-pressed and then pressed and trimmed. The Robo-Feeder feeds sets into the Foldnak 8 without operator assistance. A generous capacity of 1,300 sheets (80 gsm) makes frequent reloading unnecessary.



NAGEL ROBO-FEEDER.

■ Developed specifically for digital printers, the Robo-Feeder minimizes the inevitable manual labour involved in bookletmaking. It is an efficient solution for users who do not wish an online finishing of the sheets after digital printing.

■ The Robo-Feeder works faster than a digital printing press and can therefore feed print output from multiple presses. It works with all printers and digital presses and will not become outdated when other machinery does. A sorter at the printer is unnecessary, since the Robo-Feeder automatically separates the stacked sheets into sets. The feeder reliably processes booklets of up to 100 pages and cover sheets printed digitally or using offset.

NAGEL ROBO-FEEDER	
Sheet separation	Suction belt with air-blast
Number of bins	2
Feeding speed	Up to 10,000 sheets/h; the output of booklets/h depends on how many sheets a booklet has
Capacity bins	130 mm (upper bin)/ 65 mm (lower bin)
Min. sheet size	210 x 297 mm/A4
Max. sheet size	325 x 450 mm/Überformat
Recommended paper weight	45-250 gsm depending on paper quality and atmospheric conditions
Detection Systems	Miss feed, double feed, empty bin, paper jam
Anti-static-kit	•
Optical mark reader	•
Power supply	230 V 50 Hz 1 kW or 115 V 60 Hz 1 kW
H x W x D (cm)	149 x 70 x 70
Weight net/packed (kg)	120/167

- Optional

Convenient and reliable: The NAGEL RIMO paper jogger.

■ The RIMO series of paper joggers is the perfect complement for your finishing equipment.

■ Paper joggers align sheets after printing or separate them before collating to reduce static charges.

■ The single-bin paper jogger Rimo 1 works with a vibrating solenoid and jogs the paper in an upright position. This makes it especially suitable for heavy stock. The bin can be adjusted to the filling quantity.



NAGEL RIMO 4.

■ The Rimo 4 table top jogger handles formats up to A4, the larger model Rimo 3 jogs paper in formats up to A3 and is also available with an adjustable stand.

■ Paper can be inserted lengthwise or crosswise into the Rimo 3. The tilt angle of the jogging table and the jogger vibration are infinitely variable.



NAGEL RIMO 3 with adjustable stand.



NAGEL RIMO 1.

	NAGEL RIMO 1	NAGEL RIMO 3	NAGEL RIMO 4
Bin size (cm)	26 x 13 x 9	–	–
Tray size (cm)	–	42 x 42	30,5 x 21,5
Infinitely-adjustable jogging force	✓	✓	✓
Stack width (mm)	50	–	–
Stack height (mm)	–	60	50
Height-adjustable stand (min. 72, max. 98 cm)	–	•	–
Power supply	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz
Weight net/packed (kg)	7/8	14/18	7/8
Weight stand net/packed (kg)	–	11/13	–

- ✓ Standard
- Optional
- Not available



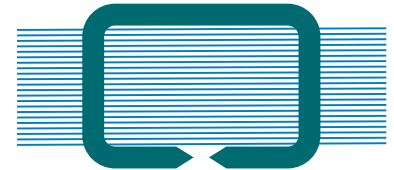
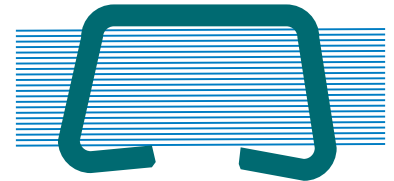
Quality down to the smallest detail: NAGEL staples.

■ Perfect stapling rounds off the overall impression of your booklet. All Nagel staples, whether standard or loop, have uniformly bevelled, sharp tips that effortlessly penetrate cardboard, leather, textiles, plastics and wood. The tips guarantee a precise positioning of the staples and thereby a solid and uniform stapling of the booklet. The special glue ensures a good adhesion and reduces wear on the stapling head.



Stapling results.

- With dull, irregular staple ends.
- Nagel staple with bevelled tips.



Loop and standard staples

optional

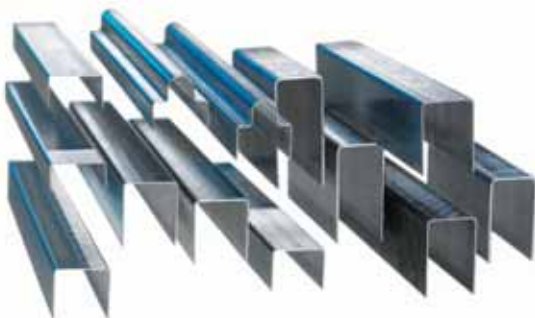


Staple type	26	Ri/26	24	Ri/24
Wire gauge (mm)	0,45	0,45	0,60	0,60
Leg Length (mm)	6	○	○	○
Leg Length (mm)	8	○/●	○	○

- Galvanized iron wire
- Steel wire

Specifications

- Galvanized iron wire.
- Optional: Steel wire staples for high penetration power.
- Different wire gauges for all bookbinding requirements.
- Sophisticated production process for trouble-free operation.
- Loop staples in bookbinding quality.



■ Contact

Ernst Nagel GmbH
Breitwiesenstraße 21
70565 Stuttgart/Germany

Phone export +49 7 11-7 80 78-21
Fax export +49 7 11-7 80 78-20

E-Mail sales@ernstnagel.com
www.ernstnagel.com

