

MODULAR FOLDING WITH ENDLESS CONFIGURATION



FI480 - FI600

Versatile machine for folding instruction leaflets in the pharmaceutical, cosmetic, and commercial sectors. Available with 480 or 600mm folding width, with a 550mm high-pile feeder or a nonstop rotary feeder.

MAXIMUM PAPER SIZE FI480	480 x 1000 mm
MAXIMUM PAPER SIZE FI600	600 x 1000 mm
MINIMUM PAPER SIZE	70 x 120 mm
PAPER THICKNESS	from 30g to 250g
MAXIMUM SPEED	200m/min
NUMBER OF FOLDS 480TS	from 6 to 18
NUMBER OF FOLDS 600TS	from 4 to 20
ROLLER DIAMETER	5 mm
MINIMUM FOLD SIZE	22mm
POWER REQUIREMENTS	380V - 3PH+T+N 480 TS 3.85 Kw 600TS 4.85Kw

SECOND FOLDING GROUP

Number of folds 4 to 8



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INDUSTRIAL FOLDING MACHINE FOR THE GRAPHIC ARTS



FRIEDHEIM
INTERNATIONAL

SPECIALISTS IN FOLDING TECHNOLOGY

COMPACT FOLDING MACHINE



FI36 - FI48 - FI57

Compact folding machine suitable for small formats. Available with a continuous no-stop feeder or with a high-pile feeder with a 550 mm loading capacity. Complete with preselector, electronic double-sheet detection control, delivery of the folded product onto a motorized belt or to the vertical stack delivery, ideal for small formats.

MAXIMUM PAPER SIZE FI36	360 x 750/1000 mm
MAXIMUM PAPER SIZE FI48	480 x 750/1000 mm
MAXIMUM PAPER SIZE FI57	570 x 1000 mm
MINIMUM PAPER SIZE	50 x 105 mm
PAPER THICKNESS	from 30g to 250g
MAXIMUM SPEED	200m/min
NUMBER OF FOLDS FI36/FI48	from 6 to 18
NUMBER OF FOLDS FI60	from 4 to 20
ROLLER DIAMETER	5 mm
POWER REQUIREMENTS	380V - 3PH+T+N FI48 3.85 Kw FI60 4.85Kw

SECOND FOLDING GROUP

Number of folds 4 to 8





Camera inspection in straight & reverse.

Effectively detects issues such as blank pages, non-compliant print loading, misalignments, out-of-register printing, blurred prints, and errors in barcodes, QR codes, or pharmacodes, preventing defective products from proceeding to the next stage.



Ultrasonic double-sheet detection.

Uses ultrasonic technology for higher sensitivity, particularly suitable for the rapid and precise detection of double sheets with lightweight paper. Combined with a mechanical anti-double-sheet switch, it completely prevents any double sheets from entering the machine.



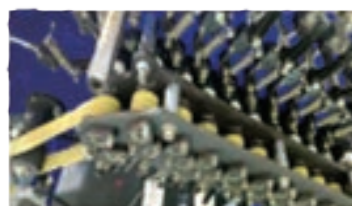
Automatic paper ejection.

The camera automatically detects defective sheets, and the ultrasonic double-sheet sensor also identifies them, allowing automatic ejection before they enter the folding unit.



Paper-jam control system

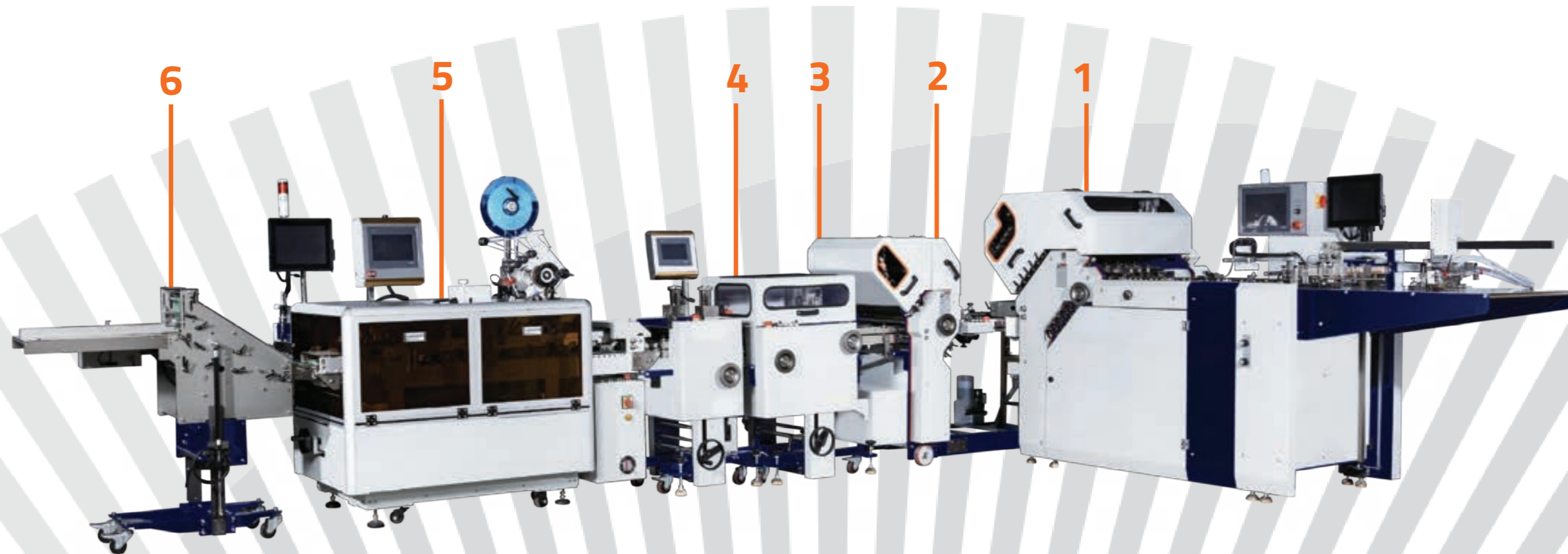
Computerised anti-jamming function: with a single click, the operator can monitor the entire production phase via the control panel. In the event of a paper jam, the machine issues an alarm and immediately stops the unit where the blockage has occurred, while the subsequent units continue to operate. The operator can also quickly identify on the touch panel the exact position where the error has occurred.



Belt transmission

It uses an exclusive patented structure with a double smooth-belt transmission, ensuring greater stability, efficiency, high folding precision and very quiet operation.

INDUSTRIAL FOLDING MACHINE FOR THE GRAPHIC ARTS



1: First folding unit

The entire line can be easily controlled via the touch screen on the main unit, with an interface available in Italian and English. The software manages production quantity and speed, batch counting, overall line speed, waste and quantity control, alarm display, monitoring of inputs and outputs via PLC, and parameter settings for auxiliary groups such as the parallel knife, pressing unit, labelling unit, etc. It is available with a working width of 480mm or 600mm, with between 4 and 20 folds, and with either a high-pile or continuous-feed rotary sheet feeder.

2: Second folding unit

The second unit, mounted at 90 degrees to the first, has been specifically modified with a 37-section conveyor instead of the standard 32, ensuring smoother, more stable and perfectly flat paper feeding. It is available with a 360mm working width and 4 to 6 folds, or with a 480mm working width and 4 to 8 folds.

3: Parallel knife – Mod. FI16

The knife descent uses a stable servo motor with very high reliability and precision. This system is more dependable than traditional pneumatic systems. The knife--folding unit is equipped with pneumatic alignment and pressing of the folded product, making it more uniform and compact while also improving its overall appearance. Up to three parallel knives can be configured for each line.

4: Pressing unit – Mod. FI160

The strong and uniform mechanical pressing compresses the product more firmly, ensuring better air removal. The product becomes thinner and more uniform after pressing. Up to three pressing units can be configured for each line.

5: Labelling unit – Mod. FI220

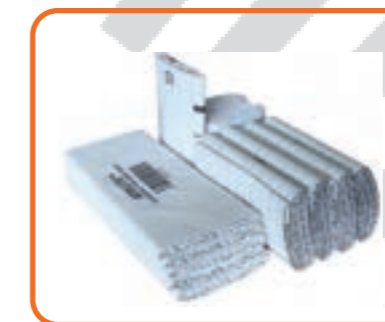
It uses a servo motor for precise, accurate and efficient positioning of the folded product. It is equipped with an automatic pressing system to ensure more stable and secure label application.

6: Special outserts bundle delivery – Mod. FI200

Used for the vertical collection of finished products with a thickness from 1 to 20 mm and a folded-leaflet height from 2 mm to 120 mm. It is equipped with an independent counting function, allowing batch counting and separation into pre-set bundles. Supplied with an enlarged collection tray for extended autonomy.

OPTIONAL DEVICES

Water scoring, gluing unit, special knife for window fold, scoring, perforating and cutting tools.



FOLDING SYSTEM MODULES

FI320 Packet Delivery Unit

MAXIMUM PAPER SIZE	320mm
MINIMUM PAPER SIZE	25mm
MAXIMUM FOLDABLE HEIGHT	150mm
MINIMUM FOLDABLE HEIGHT	20mm
MAXIMUM FOLDABLE THICKNESS	8mm



FI160 Parallel knife

MAXIMUM PAPER SIZE	200 x 160mm
MINIMUM PAPER SIZE	50 x 35mm
MAXIMUM FEED HEIGHT	750 - 800 mm
POWER SUPPLY	220V / 0.75Kw



FI220 Gluing Unit

MAXIMUM PAPER SIZE	220mm
MINIMUM PAPER SIZE	20 mm
SPEED	120m/min
POWER SUPPLY	220v / 0.4Kw



FI160 Pressing group / Pressing unit

MAXIMUM PAPER SIZE	160 x 500mm
PAPER THICKNESS	0.3 - 10mm
PRESSURE	5 - 100 N
POWER SUPPLY	220V / 0.75Kw
NET WEIGHT	185Kg



FI22 Labeller

LABELLING ACCURACY	+/- 1mm
LABELLING SPEED	170 pcs/min
PRODUCT LENGTH	50 to 200 mm
PRODUCT WIDTH	45 to 220 mm
PRODUCT THICKNESS	1 to 20 mm
LABEL LENGTH	20 to 40 mm
LABEL WIDTH	8 to 20 mm
POWER SUPPLY	220 V / 50 Hz

