

Unified Processes

All-in-One Solution



DUOMATIC 2105FSS

FOIL-STAMPING & DIE-CUTTING MACHINE

Optimized for production precision and consistency

Duomatic 2105FSS



DUOMATIC 2105FSS is a dual-station automatic machine designed for hot foil stamping and die-cutting, combining foil stamping, die-cutting and stripping in a single production pass. By integrating multiple processes into one machine, it minimizes equipment requirements, reduces labor dependency, saves production floor space, and lowers overall capital investment.

The machine is equipped with an optimized mechanical transmission system and advanced register control technology, ensuring stable and precise sheet feeding at speeds of up to 7,000 sheets per hour, with a positioning accuracy of ± 0.1 mm.

It is designed for a wide range of packaging substrates, processing materials from 90 to 2,000 gsm, including cardboard and corrugated board up to 4 mm in thickness. The machine delivers a maximum working pressure of 400 tons, providing stable performance and consistent quality across demanding production environments.

Duomatic 2105FSS responds to current market requirements for higher production efficiency, reduced equipment footprint, optimized workforce allocation, and improved cost efficiency in folding carton production.

Excellent performance

Stamping, cutting and stripping



Precision

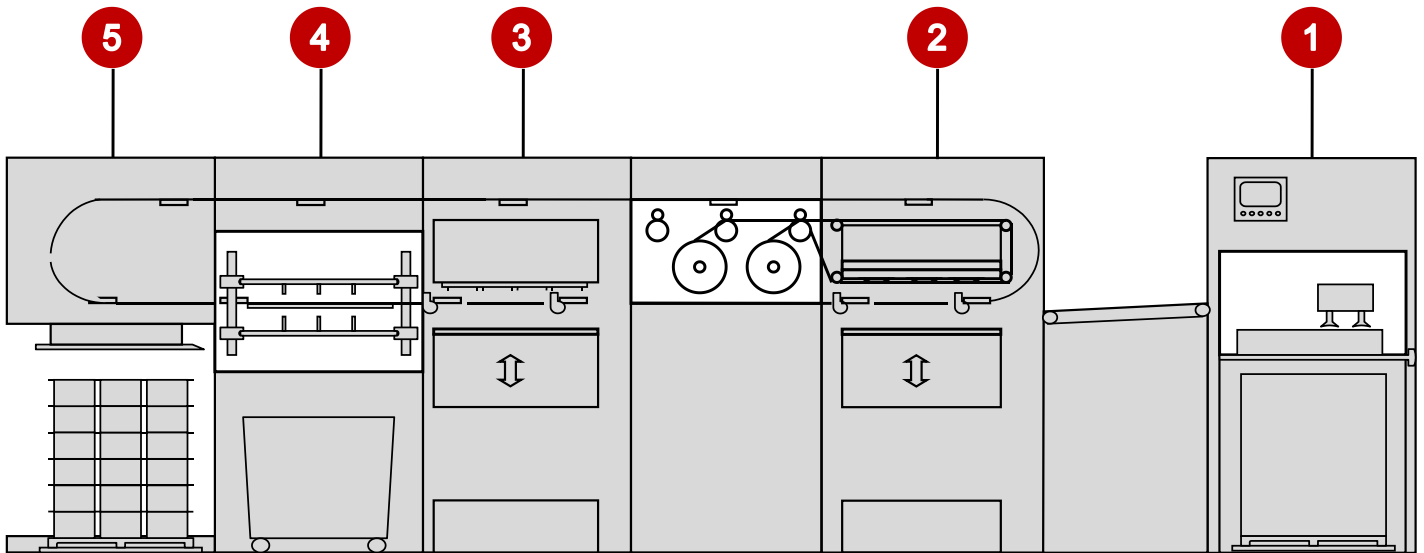
- Servo-driven feeding system ensures accurate and stable sheet positioning.
 - World-class machining center combined with manual scraping: ensures the fit and operational precision of core components.
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Efficiency

- The machine features a one-touch intelligent setup allowing key production parameters—from feeder to delivery—to be set and adjusted via the HMI. This enables fast and repeatable job setup, reduces operator dependency, and minimizes make-ready time.
 - Quick-lock structure for the stripping middle frame reduces changeover time.
 - **1,700mm** feeding height and **1,450mm** delivery height reduce the frequency of paper pile changes, lowering labor requirements and saving time.
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Capability

- Suitable for materials ranging from **90** up to **2,000 g/m²**.
- Modular lower platen system enables fast and flexible adjustment for quick job changeover.



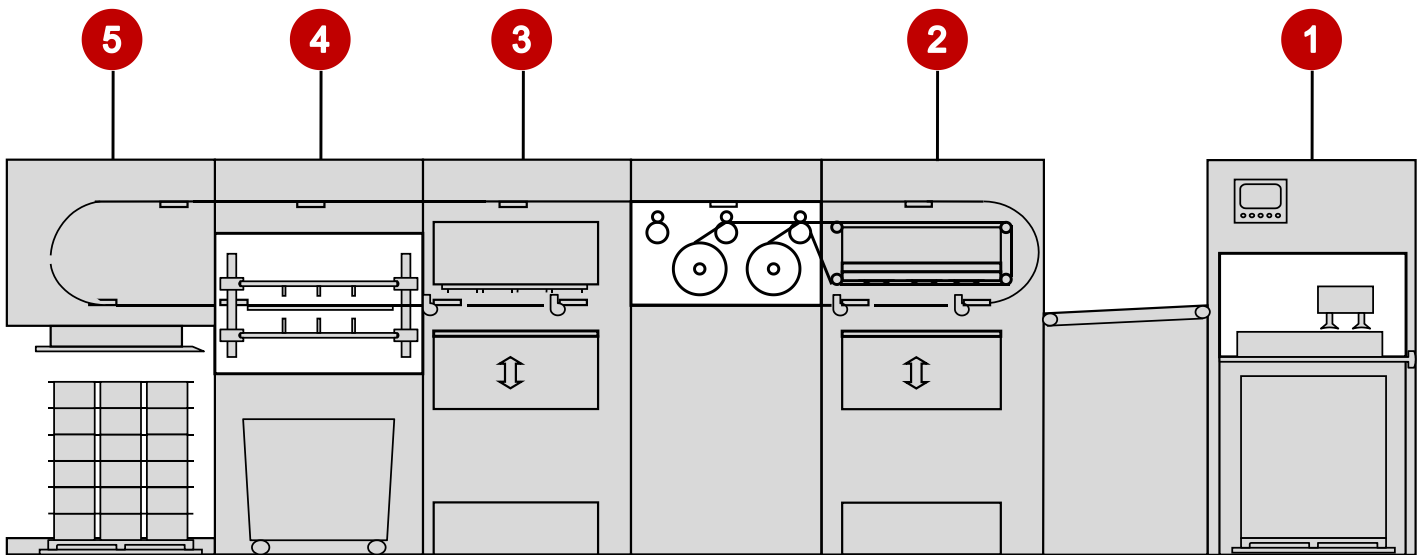
The machine shown is a sample configuration.

1 Non-Stop Feeder

- 1,700mm feeding height
- Non-stop feeder for continuous pile change
- Suction head for paper, cardboard and corrugated board
- Mechanical double-sheet detection system
- Inclined feeding table for controlled and smooth sheet feeding
- Operator and drive-side pull/push side lay
- Becker vacuum pump system
- Servo-driven infeed position adjustment
- One-touch intelligent setup (option)

2 Hot Foil Stamping Station

- 3 longitudinal and 2 transversal foil feeding shafts for high flexibility in complex foil-stamping layouts
- Intelligent foil feeding program for efficient utilization and reduced material waste
- Standard rewinder for efficient foil disposal
- Cooling circulation system
- Long-lasting gripper bars for higher production output
- Holographic anti-counterfeiting foil stamping (option)



The machine shown is a sample configuration.

3 Die-Cutting Station

- Fine adjustment of cutting plate
- Pneumatic die-cutting chase locking system
- Digital die-cutting pressure control system
- Automatic chain lubrication system

4 Stripping Station

- Motorized upper chase lifting system
- Perfect stripping at high-speed operation
- Quick-lock device for center stripping board
- Upper and lower stripping chases for fast setup, removal and adjustment
- Second touchscreen
- Fine adjustment of upper and lower stripping frames (option)

5 Non-Stop Delivery

- Non-stop rolling carpet
- Gripper edge removal system
- Tape inserter
- 1,450 mm delivery height
- Camera for delivery monitoring (option)

Technical Parameters

Processable Materials

Duomatic 2105FSS

Paper, min.	90 g/m ²
Carton or Solid Board, max.	2,000 g/m ²
Corrugated Board	≤ 4mm

Capability

Max. Sheet Size	1,050×750 mm
Min. Sheet Size	400 ×360 mm
Max. Die-Cutting Size	1,040×730 mm
Max. Foil-Stamping Size	1,040×730 mm
Max. Die-Cutting Pressure	400 Tons
Max. Machine Speed	7,000 Sheets per hour
Accuracy	≤ ±0.1 mm

Hot Foil Stamping

Temperature	40°C–180°C
Foil Feeding Shafts	3 Longitudinal, 2 Transversal
Foil Reel Diameter (Longitudinal)	250mm
Foil Reel Diameter (Transversal)	250mm
Foil Width	20–1,040mm

Pile Height

Max. Pile Height at Feeder	1,700 mm
Max. Pile Height at Delivery	1,450 mm

Features and Benefits



SPEED

7,000 Sheets per Hour

High-Speed Performance



FOIL FEEDING

3 Longitudinal

2 Transversal +
As Standard



MECHANICAL POWER

400T

Working Pressure

Effortlessly Handles a Wide Range of
Materials with Consistent Precision

■ Maximum Pile Height of

1,700 mm

at Feeding Station

Reduces Sheet Changeover Frequency
and Improves Overall Efficiency

SPECIALIZED CAPABILITIES

Optional

One-Touch Setup

Fully Automated Job Changeovers

AUTOMATION & LOGISTICS

Optional

Logistics System

For Seamless End-to-End Production

FSS / FFS CONFIGURATIONS

Foil Stamping + Foil Stamping (Die-Cutting) + Stripping

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