

AUTOPRINT HOT FOIL UNIT

Hot foil stamping is a finishing method used to give texts and patterns an eye - catching appearance. The Hot foil can have a glossy or matte finish with a coloured, metallic or holographic appearance. The Size of the area can be covered varies from very small details such as logos, captions, key lines, pictures can be Hot foiled as per design. Hot foil enhances visual appeal and adds more value to every print job.

Autoprint introduces Hot foil facility as a standard feature with **Dextra - 80 HF** Die - Punching & Hot Foiling Machine.



Special Features

Retrofitable Hot foil stamping Attachment

Dextra 80 HF can be converted for foil stamping application at site with a hot foil attachment.

Quick Changeover between Die Punching and Hot foil stamping

Additional Chase Bracket fitted with the heater plate is Provided for Hot stamping. Operator can easily replace the die punching chase bracket with the hot foil chase bracket and the foil stamping job can be started quickly. Similarly, after completing Hot foil stamping jobs, operator can immediately start die punching operation by changing the die chase. This is possible as the heater is fitted on the chase bracket and there is no need for the machine to cool down.

Power saving Heater Plate

Heater Plate has 3 heating zones which can be optimized depending on the sheet size and controlled with a separate panel box. These heaters have a independent thermostat which is used to set and reach the correct temperature very quickly.



Foil feeding system

Servo controlled foil feeding is running perpendicular to the direction of the paper feeding direction. Hot foil attachment is driven by 2 independent servo motors for pulling the correct length of foil with foil saver settings on the rewind section. Two different shafts are provided for foils, both on the unwind side and rewind side. Hence different pull lengths can be used simultaneously using the independent servo motors. Multiple foils of large diameter can be fixed on each shaft to reduce foil consumption. Another 2 servo motors are used to control the unwind section. Hot foil attachment is also provided with sensors to indicate the completion of foil roll and thereby reducing wastage.

Technical Specifications

Maximum foil roller diameter	: Ø250 mm	Gripper margin - Foil Stamping	: 15 mm
Maximum Foil Roll width	: 540 mm	Foil Shaft	: 2 Nos.
Minimum Foil Roll width	: 50 mm	Stamping Temp. Range	: 0 °C to 200 °C
No. of heating zones	: 3 heating zones length wise divided in OPS to NOPS direction	Foil thickness to be used	: 16 Microns (Average)
Foil Roll Diameter	: 150 mm of 1" core gives 750 mm long foil	Hot Foil Unit Weight	: 0.5 Ton (Approx.)
Maximum Length of Pull Foil	: 800 mm	Heater Plate	: 9 KW
Hot foil speed	: 3500 IPH	Servo Motor - Foil Winding (2No.)	: 0.75 KW X 2
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		Foiling Unit - Total Power	: 11.3 Kw

Technical Specifications

Maximum Paper Size (L x W)	: 560 x 812mm (22" X 32")	Power source	: 3 Phase, 440 V, 50 Hz
Minimum Paper Size (L x W)	: 305 x 254 mm (12" X 10")	Power - Main Motor	: 5.5 KW (7.5 HP), 3 Phase induction motor
Maximum Punching Area	: 540 x 790 mm	Power - Feeder Pile Motor	: 0.75 KW (1 HP)
Chase Inner Size	: 582 x 840 mm	Power - Delivery Pile Motor	: 0.75 KW (1 HP)
Aluminium Plate Size	: 563 x 795 mm	Compressor Motor	: 1.5 KW (2 HP) 3 Phase induction motor
Paper Thickness	: 80 - 600 gsm (0.1 to 0.6 mm)	Lubrication Motor	: 0.09 Kw, Single Phase
Gripper Margin Setting	: 10-14 mm	UPS	: Online UPS 3 phase 415 V AC, 10 KVA, 12Vx128Ah 20 nos. of SMF Batteries
Punching Speed Max.	: 4500 sph	Total Connected Load	: 20 KW (Including Foil unit)
Feeder Pile Height	: 960 mm	Punching Stroke	: 70 mm
Delivery Pile Height	: 825 mm	Chase Interior Size	: 582 x 840 mm
Die Rule Height	: 23.8 mm	Weight	: 9 Tons (Gross Wt. - 9.5 Tons)
Gripper Bite	: 3 - 8 mm	Dimensions (L x W x H)	: 3606 x 2353 x 1674 mm
Punching Load	: 180 Tons	Packing case size (L x W x H)	: 3990 x 2720 x 2210 mm
Front Lay Margin	: 3-8 mm		
Pull lay fine adjustment	: +/- 1.5 mm		
Cross adjustment on Front lay:	+/- 1.5 mm		

Features at a Glance

General

- Compact machine, Optimum Machine Height
- Box type base frame for stability of machine
- Steel side frame for lasting results.
- Motorized centralized lubrication system for all areas.
- Ergonomically designed operating handles, knobs & small platform on operator side for operator easiness.
- Maintenance guiding program on touch screen panel.

Electrical

- High speed PLC based control with digital input / output modules
- Automatic switching program
- 7" LCD touch screen color display providing status and location of technical faults, speed, sheet count etc & very user friendly
- Batch Counter at delivery, Protection fo electric circuit through UPS.

Feeder

- Stream feeder, Double sheet detector
- Safety sensors for lowering the feeder pile.
- Pull type side lay on both sides, Limit Switch for maximum feeder height & Cross feeder sensor
- Motorized pile for smooth up and down movement
- Early sheet sensing for minimum wastage

Delivery

- Chain delivery with auto receding stacker, Motorized delivery pile lifting & detachable delivery tray for improved productivity
- Limit switch for minimum position & paper not dropped at delivery

- Automatic delivery stacker from front and sides for better stacking.
- Provision for taking sample sheet at delivery while working.
- Stopper brush position is automatically set while setting delivery stacker.

Punching Station

- Limit switch for max. & min. position of die plate for safety of machine.
- Optimum positioned grippers for improved register accuracy
- Servo controlled gripper carrier for precise gripper carrier registration.
- Easy removal of die unit by chase turn over mechanism
- Eccentric locking of Chase assembly for quicker & precise positioning.
- Quick change over of dies, Folding type die changing assembly.
- The gripper in-feed mechanism is servo driven for precise positioning.
- Three point register at front lay & at punching station for precise positioning & Single line punching system to reduce the cutting load.
- Limit switch for paper jam. Fully compatible with die-form systems available in market for faster make ready
- High quality chains, chain guides & gripper bars for precise & smooth operation

Foil Stamping Station

- Two different rolls of different pull length can be used.
- If the foil length is same, multiple foils can be used.
- Provision for short pull & long pull is available for optimum foil consumption.
- Heating zones are individually controlled by temperature controller.
- Provision to use the same machine for die cutting, if required by replacing the heater plate (Removable type heater plate).

Optional : Voltage servo stabilizer 15KVA (3 Phase), Pre-piling facility

DEXTRA WITH EXTRA



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**Automatic
Precise, Safe Punching &
Hot Foiling with**

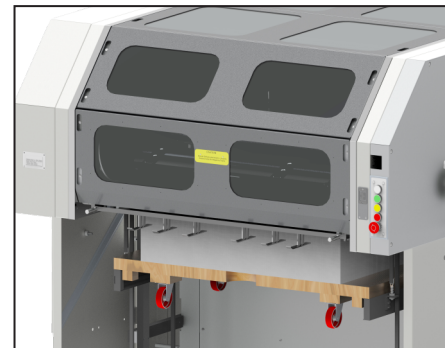


Automate your Packaging Line with Autoprint Dextra 80 HF for ensuring **SAFETY, QUALITY & PRODUCTIVITY**

Autoprint is committed to bring modern cutting-edge technology to its customers. A result of this commitment is **Autoprint Dextra 80 HF** - an Automatic Sheet-fed Flat Bed Die-Punching and Hot Foiling Machine designed to handle even the most intricate and detailed designs. This reliable and high precision die punching machine is the perfect answer to meet the growing demand of medium and large format printers as well as packaging units.

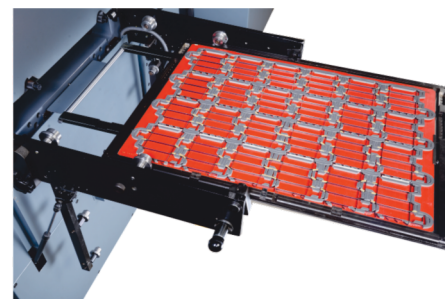
DELIVERY UNIT

After Punching, the paper is delivered smoothly to the Delivery Unit. Automatic pile movement is assured with the Motorised Pile 'Up' and 'Down' mechanism provided. The delivery pile is automatically lowered based on the speed of the machine and controlled by a limit switch to avoid excess loading. Side and back stoppers are provided for perfect stacking of paper.



DIE PUNCHING UNIT

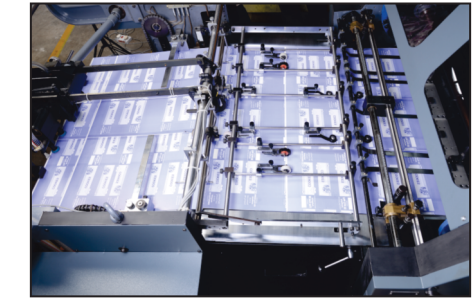
After registering the paper in the Front Lay, the sheet is fed into the Die Punching Unit with the help of the Rigid Grippers. The Gripper in-feed Mechanism is servo-driven for precise positioning of paper in the Die Punching Unit. The Die Punching Unit applies uniform pressure on the paper and ensures precise punching as per the desired profile. The chase turn-over mechanism enables easy removal of the Die Unit and quick change-over for the next job. These gripper assemblies are positioned precisely by register mechanism to accommodate variation in chain length due to wear.



HOT FOIL UNIT

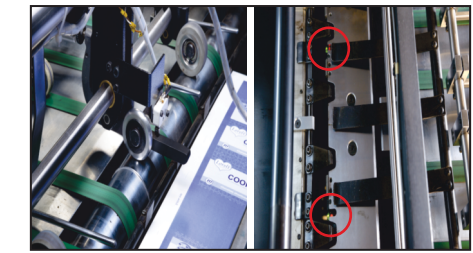
DOUBLE SHEET AND CROSS FEED SENSOR

Double Sheet Detector and Cross Feed Sensors are provided to prevent the feeding of any excess or cross sheet into the Punching Unit. When this happens, the sheet feeding stops instantly and a warning message appears on the Touch Screen Panel.



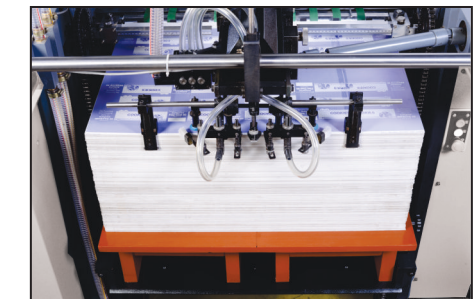
REGISTER BOARD

The Conveyor Board is provided with adequate runners, brush rollers and paper guides to ensure smooth and trouble-free feeding of stock from thin paper to thick board ranging from 0.1 to 0.6 mm. A Pull Type Side Lay on both sides ensures precise registration of the paper. The Front Lay is adjustable for cross up to ± 1.5 mm and front register up to 3 - 8 mm precisely.



STREAM FEEDER








Autoprint Dextra 80 HF has a Stream Feeding System, which ensures continuous sheet feeding of a wide range of paper stocks from 0.1 to 0.6 mm with ease. Its suction device separates and lifts the paper precisely from the tail-end, while the mechanical device feeds the paper into the Register Board through pull in rollers, continuously as a stream. The machine is equipped with Motorised Pile for smooth 'Up' and 'Down' movement. The feeder table is equipped with a Pre-pile facility (optional) for loading of paper stocks on the second pile, while the machine is running. This reduces the down time of the machine and increases the productivity.



CENTRALISED TOUCH SCREEN CONTROL PANEL

The Autoprint Dextra 80 HF has a soft feather touch PLC Control Panel. The advanced technology incorporated with pre-programmable software does the functions sequentially by just touch of a button. Various controls are indicated in the Digital display of the control panel for convenience in operation. Touch screen is equipped with a maintenance program where periodically the operator is reminded of any maintenance to be performed.



Applications :  Die-Punching  Hot Foil Stamping  Creasing  Perforating  Kiss-Cut  Blind Embossing  Braille Embossing