

# BL-1050S/E

## Automatic Flat Die-Cutting Machine



### Description

BL-1050 series flatbed die-cutting with stripping is an ideal equipment to die cut and crease the paper, paper board packing material. It is easy to operate the machine with man-machine interface which automatically displaying the breakdown and frame locking system, digital displaying up-down of mould pressing. The cooling system of oil circulation decreases difference of hot and cold part of machine so as to reduce the number of rejects and extend the machine service life.

Main electrical components are all worldwide famous brands, and industry cooling system ensures the electric component durable and steady performance.

### Technician Specification

Model	BL1050S	BL1050E
Max. paper size	1050x750mm	
Min. paper size	400x360mm	
Max. die cutting size	1040x720mm	
Die cutting plate size	1080x736mm	
Die cutting frame inner size	1140x750mm	
Max. paper stacking height of feeding	1500mm	
Max. paper stacking height of collecting	1400mm	
Paper thickness	80~800gsm cardboard, corrugated board $\leq$ 4mm	
Min width of waste edge	8mm	
Max. mechanical speed	7500s/h (according design arrangement and paper)	
Max. die cutting pressure	300t	
Air compressor	0.36m <sup>3</sup> /min (user prepare)	
Power supply	380V/50Hz 3 phase 4 lines, If is other type voltage, user need prepare 25KWA transformer	



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Total power	20kw	19kw
Total weight	16t	15t
Overall dimension	7300x4250x2350mm	6350x4250x2350mm

### Main Feature

- 1) It is mainly suitable for high accuracy die cut requirement material, such as 0.1~2mm cardboard, corrugated board  $\leq 4\text{mm}$
- 2) It is with fast working speed, high safety, easy operation.
- 3) It is with stable feeding, die cutting and collecting the thin paper of which thickness above 80gsm.
- 4) The feeder with 4 suction and 4 feeding makes paper feeding more smooth.
- 5) Fully automatic non-stop paper feeding and stacking trolley improve the productivity.
- 6) With die cutting frame automatic lock design, high safety and convenient and simple operating.
- 7) Die cutting frame high strength and precision, frame backing plate adopt hard stainless steel, beautiful and durable.
- 8) Die cutting pad plate hardness HRC50~53, flatten and rusty proof, durable using.
- 9) Crank shaft, pendulum shaft, worm and others are all imported alloy steel and precision finishing.
- 10) Oil circulation cooling system improved the difference between heat part and cold part of machine, decrease the rejects number and extend the parts service life.
- 11) Die cutting lift and backward adopt digital displaying, accuracy of 0.001mm.
- 12) Luxury appearance achieves international standard.

### Parts Origin

No.	Name	Brand	Origin
<b>A</b>	<b>Main electric parts origins</b>		
1	Main motor	Siemens	Germany
2	Reducer motor	CHENG PANG	TaiWan
3	Reducer motor	XDS	
4	Circulation oil pump	TswuKwan	TaiWan
5	Vacuum pump	EUROVAC	TaiWan
6	Pressure controller	WLP	TaiWan
7	Cooler	FREE	China
8	Motor drive pump	CHAO RUN	China
9	Solenoid valve	MAC	USA
10	Solenoid valve	AIRTAC	TaiWan
11	Electro-magnetic clutch	LZ	China
12	Switch/connection terminal	TEND	TaiWan

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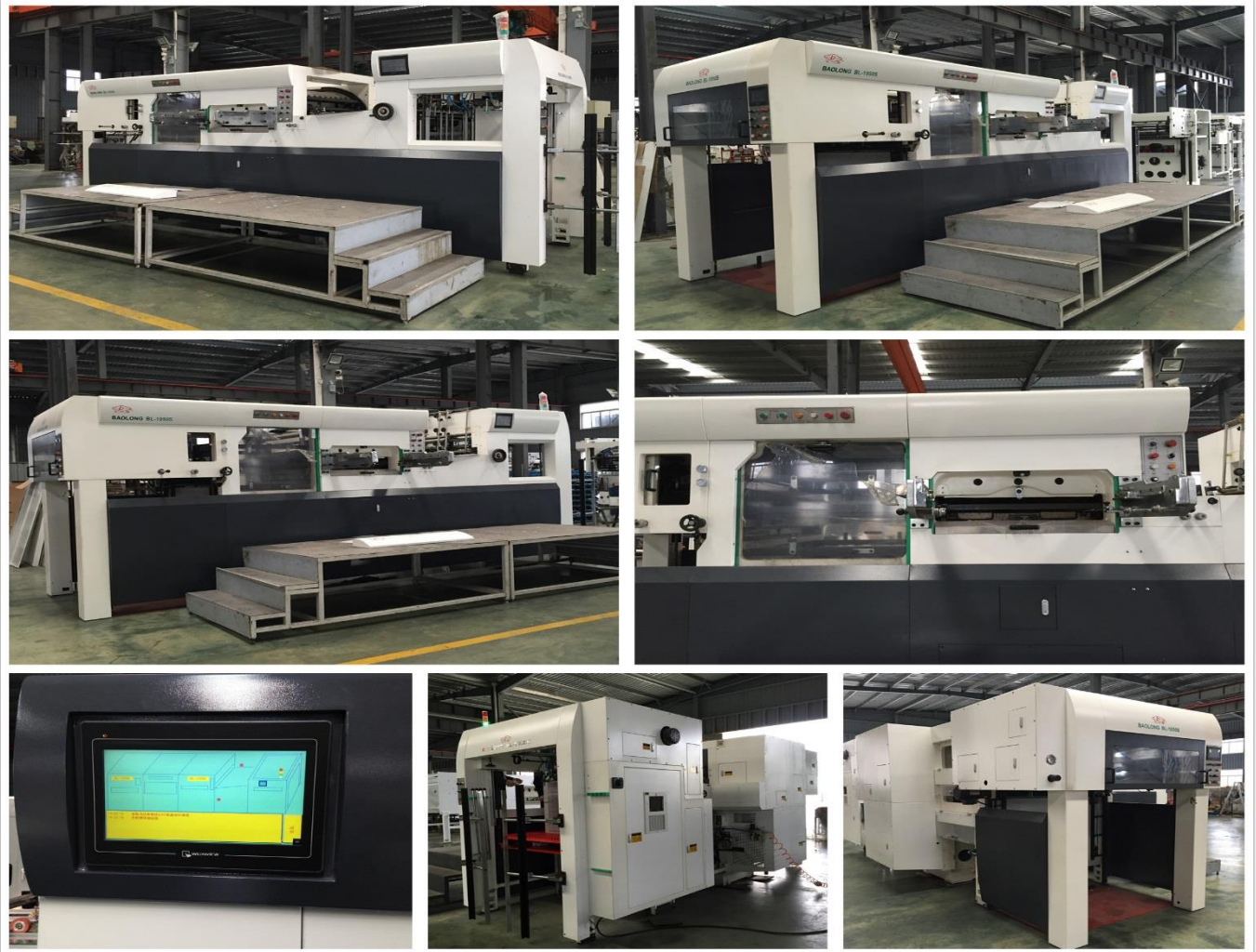
## Automatic Flat Die-Cutting Machine

13	Intermediate relay	IDEC	Japan
14	Air-break switch	Schneider	France
15	Contactora	Schneider	France
16	Button	Schneider	France
17	Sensor	SUNX	Japan
18	Proximity switch	OMRON	Japan
19	Rotary encoder	Autonics	Korea
20	Photocell/proximity switch	Autonics	Korea
21	Proximity switch/time relay	FOTEK	TaiWan
22	Power switch	MIWE	TaiWan
23	Inverter	INVT	China
24	Touch screen	HITECH	TaiWan
24	PLC	FATEK	TaiWan
<b>B</b>	<b>Main parts origins</b>		
1	Pneumatic clutch	OMPI	Italy
2	High speed rotary connector	SMC	Japan
3	O shape ring	Mcclane	USA
4	Oil seal	SOG	TaiWan
5	Synchronous belt	Continental	Germany
6	Synchronous belt	Gates	USA
7	Flat belt	NIITA	Japan
8	Clamping screw	YFS	TaiWan
9	Bearing	NSK	Japan
10	Bearing	SKF	Swiss
11	Bearing	IKO	Japan
12	Bushing	SANFU	China
13	Precision separator		TaiWan
14	Tooth row main chain	TYC	TaiWan
15	Chain		China
16	Pull gauge		Taiwan
17	Torque limiter		Taiwan
18	Tooth row		Taiwan

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## Machine photos



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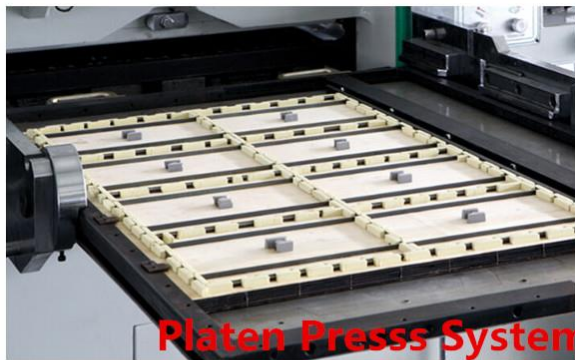
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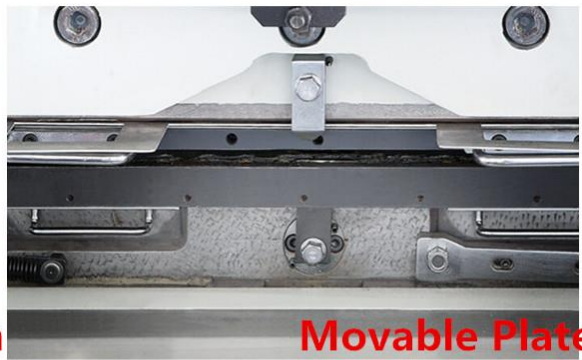
Sheet Feed Section



Convey System



Platen Press System



Movable Plate



Main Driving System



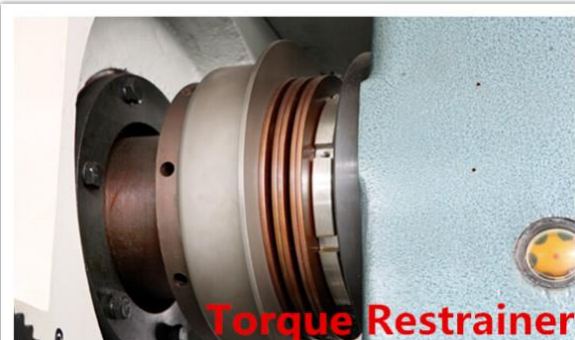
Stripping Section



Sheet Delivery System



Oil Cooling System



Torque Restrainer



The Grippers And Chair