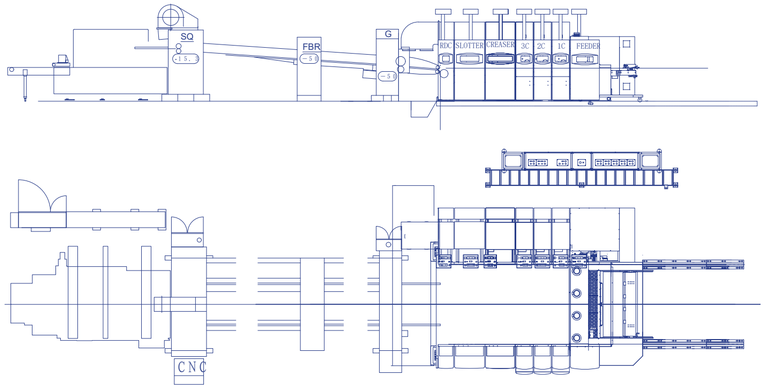
SPECIFICATION

Data	600 x 1800	900 x 2000	900 x 2400	1200 x 2400	1200 x 2800	1400 x 2400	1400 x 2800	1600 x 2800	1600 x 3200
Max. machine speed (sheet/min)	400	330	300	280	250	230	230	200	180
Max. sheet size (mm)	600 x 1800	880 x 2000	880 x 2400	1180 x 2400	1180 x 2800	1380 x 2400	1380 x 2800	1570 x 2800	1570 x 3200
Min. sheet size (mm)	200 x 435	280 x 670		320 x 680		360 x 680		420 x 710	
The size of the blanks for the pass (mm)	860 x 1800	1100 x 2000	1100 x 2400	1500 x 2400	1500 x 2800	1700 x 2400	1700 x 2800	1900 x 2800	1900 x 3200
Max. printing area (mm)	600 x 1700	850 x 2000	850 x 2400	1150 x 2400	1150 x 2800	1350 x 2400	1350 x 2800	1540 x 2800	1540 x 3200
Thickness of the printed blank (mm)	7.2								
Min. panel size (mm)	180 x 55 x 180 x 55	245 x 65 x 245 x 65		250 x 65 x 250 x 65				265 x 65 x 265 x 65	
Max. cutting depth (mm)	160	250		320				560	
Max. sheet thickness (mm)	8	11						15	
Min. height of the box (mm)	50								

Unit	Equipment	Standart	Optional
Feeding unit	Lead edge feeder	●	
	Automatic return to the «zero» position	●	
	Back guide auto positioning	●	
	Lead edge auto set	●	
	Trial sheet running device	●	
	Paper dust remover (Shinko's original design)	●	
	Sheet jam detector	●	
	Batch counter	●	
	Side jogger	●	
	Lead edge table grating-less mechanism	●	
	First sheet setting device		●
Carrying	Center belt suction	●	
Printing unit	Printing plate cylinder lifting device	●	
	Printing plate cylinder motorized lateral adjustment	●	
	Printing plate cylinder auto return to «zero» position	●	
	Ink flow monitoring buzzer	●	
	Ceramic anilox roll	●	
	Automatic ink touch	●	
	Automatic printing plate winder	●	
	Chamber doctor blade system	●	
	Anilox and rubber roll system		●
	Ink bath telfon coating	●	
	Ink supply area telfon coating	●	
	Independent IR drying		●
Slotting unit	Double slotter system	●	
	Crush rolls	●	
	1:1 creasing rolls	●	
	Automatic setting of yoke heads	●	
	Automatic setup of glue flap	●	
	Glue joint waste removing fan	●	
	Glue joint waste removing rotary brush	●	
	Automatic adjustment to the valve length		●

SPECIFICATION

Unit	Equipment	Standart	Optional
Die cutting unit	«One touch» hand hole cutter	●	
	Polyurethane anvil: automatic adjustment of gaps for thickness, transverse axial displacement of the shaft during rotation up to 60 mm to preserve the coating. Quick change polyurethane bandage system	●	
	Running register auto set	●	
	Pin type stripping system		●
	Anvil polishing device	●	
Forming unit	Forming rollers	●	
	Guide bars	●	
	Upper suction belt	●	
	Underneath blt with suction function (with variable speed)	●	
	Select device to change clearance based on flutes	●	
	Double tanks		●
	Glue roll		●
	Glue gun system	●	
	Guide -bar position automatic setting	●	
	Outer gluing device	●	
Squaring unit	Squaring hopper	●	
	Holding fan	●	
	Side jogger		●
Counter-ejector	One-stage counter	●	
	Big-wave counter		●
CNC	Touch panel	●	
	Main control panel	●	
	Universal power supply	●	
	Teaching function	●	
	Communication to production manager system	●	
	Communication to preferred	●	
	Communication to robert/load former	●	
	Communication to office computer	●	
	Communication to bundling/strapping machine	●	
	Detection equipment		●
	Large LED display	●	
	Remote control touch panel	●	



SHINKO MACHINE

SUPER ALPHA MOVABLE FFG

SHINKO

* MOVABLE FFG LINE
WITH TOP PRINTING

DESCRIPTION AND COMPONENTS

FEEDING UNIT

- Vacuum servo feed without feeding nip rollers.
- Control system with touchscreen.
- Sectional expansion and connection are operated by button, and torque limiting device prevents overload.
- Automatic determination of zero point for the feeding unit and other sections (printing, creasing, die-cutting).
- No need for rotation to reconfigure the order, positioning occurs at the closest distance possible, increasing accuracy and saving time.
- Powerful dust removal device and static electricity removal device.

DUAL SLOTTING UNIT

(creasing unit + slotting unit)

- Double slitting section.
- Creasing section: pre-creasing and creasing; slitting section: front and rear slitting shafts.
- The middle blade is movable.
- Order setting and positioning function: automatic detection of the relative position difference with the feeding device and adjustment directly without resetting to zero, which improves accuracy and saves time.

PRINTING UNIT

- The printing cylinder is driven by a servo motor, and it takes only 15 seconds for a full revolution, minimizing the setup time for cliches.
- Computerized automatic plate fixing system.
- Automatic adjustment of impression roller and vacuum transfer for the thickness of the substrate.

DIE CUTTING UNIT

- Fully servo-driven die-cutting section.
- Bandage micro-grinding system.
- Automatic detection of relative position difference of the feeding section is adjusted directly without returning to the zero position, which increases accuracy and saves time.

CNC COMPUTER CONSOLE

- Color touchscreen on the main console.
- Feeding, printing, creasing, and die-cutting can be adjusted separately on the touchscreen.
- Each section has an independent PLC system and communication interface.
- Ability to adjust pressure by selecting the type of corrugation.
- Sheet jam detection.
- Protection of electrical wiring from breakage when sections of the machine are moved.
- Display of machine status, overload, and errors.

I.R. DRYER (optional)

- It uses a highly efficient infrared drying device to speed up the drying of cardboard and enhance printing efficiency.
- Adjustable temperature.
- Visual detection devices, and a barcode printing device, are optional.

- Functionality of single-button control (test printing from a single sheet, standard production capability).
- Equipped with remote diagnostic and maintenance function.
- Feeder section with full servo drive, printing section, creasing section, die-cutting section.
- Japanese Yaskawa servo control system.
- Printing cylinder driven by a servo motor, requiring only 15 seconds for a full rotation.
- Computerized automatic plate fixing system.
- Double separate slotting section (die-cutting unit + creasing unit).
- The entire machine is designed and manufactured in accordance with requirements for height, high speed, reliability, and safety, rapid order changeovers, and ease of operation.

Formation.

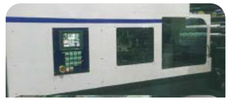
- High folding precision, meeting the requirements of each customer, thanks to the use of the patented computerized Shinko forming roll system, based on over 40 years of experience from a well-established manufacturer.
- Ability to connect to an ERP production control system.

FOLDING UNIT

Folding is carried out using forming rollers developed using Shinko's patented technology (patented in seven major countries worldwide) and 40 years of experience. The rollers bend corrugated cardboard and produce boxes with high precision in adhesive seam application. Thanks to the stable precision of the connection, the device allows for the production of products that meet the requirements of automated box manufacturing.

SPRAY SYSTEM

The Valco USA glue spraying system is utilized (equipped with an air pressure adjustment device). Automatic adjustment of position via touchscreen.



UNDERNEATH BELT

The lower belt at the machine exit has a vacuum function to ensure stable feeding of blanks.

SQUARING HOPPER

The alignment section adjusts the angles of the folded product by aligning it from the front and back.

ONE-STAGE COUNTER

The stacked boxes are counted by a photocell in the ejector section. Then, the forming unit checks and corrects the angles of the boxes, packed in the set quantity.

HOLDING FAN

Folded blanks are prevented from opening by a system of fans located on the aligning bunker, which prevents jams and consistently ejects boxes even at high speeds.