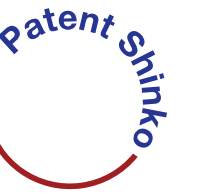




## RDC TOP / BOTTOM PRINTING



## THE TECHNOLOGY OF ROTARY CUTTING HARD DIE CUTTER



- Single-button control function (test printing from a single sheet, standard production capability).
- Equipped with remote diagnostics and maintenance function.
- Feeder section with full servo drive, printing section, perforating section, and rigid die-cutting section.
- Utilizes the Japanese Yaskawa servo control system.
- The printing cylinder is driven by a servo motor, requiring only 15 seconds for a full rotation.
- Utilizes an automatic computerized system for locking printing forms.
- Die-cutting adjustment precision can reach 0.01 mm.
- Die-cutting quality can achieve flat die-cutting level with  $\pm 0.5$  mm accuracy.
- The entire machine is designed and manufactured in accordance with requirements for die-cutting quality, high speed, reliability and safety, quick job changeovers, and ease of operation.
- Capability to connect to an ERP production control system.

Data	1400 x 2400
Max. machine speed (sheet/min)	275
Max. sheet size (mm)	1380 x 2400
Size of skip feed (mm)	1700 x 2400
Max. printing area (mm)	1350 x 2400
Thickness of the printed blank (mm)	7.2
Min. panel size (mm)	250 x 65 x 250 x 65
Max. cutting depth (mm)	320
Max. sheet thickness (mm)	12
Min. height of the box (mm)	50

## HARD DIE CUTTER'S UNITS



### ROTARY DIE-CUTTING UNIT (Top printing)

- Fully servo-driven die cutting unit.
- Upper and lower solid die-cutting shafts.
- Stainless steel shaft for rigid die-cutting (thickness 0.05 mm).
- A special solid metal shaft is used to achieve high precision die-cutting, and the die-cutting quality can reach a flat die-cutting accuracy of  $\pm 0.5$  mm.



### BELT TRANSFER UNIT (optional)

- It is installed between the final printing section and the rotary die-cutting section.



### ROTARY DIE-CUTTING UNIT (Bottom printing)

- Fully servo-driven die cutting unit.
- Upper and lower solid die-cutting shafts.
- Stainless steel shaft for rigid die-cutting (thickness 0.05 mm).
- A special solid metal shaft is used to achieve high precision die-cutting, and the die-cutting quality can reach a flat die-cutting accuracy of  $\pm 0.5$  mm.

### 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.