**Machine Main Functions**

1. Lead edge feeder, speed 160 sheets/minute.
2. PLC control system, can store 999 orders data.
3. Motorized adjustment of each unit open/close with alarm.
4. Machine wall body thickness 60mm.
5. Main gear thickness 60-80mm.
7. Electric parts Schneider, Siemens, Omron.

**Feeding Unit**

**Feeding method**

Five shaft wheel type lead edge feeder, feeding wheel size: 94x65x30mm. Sheet transmitted without any pressure, to prevent damage of the sheet top layer paper. Feeding speed display on touch screen.

**Sheet stop adjustment**

Electric adjustment of the left & right sheet stop.

**Vacuum dust removing device**

First, clean surface dust with hairbrush, second, high pressure top vacuum suction system to remove surface dust increase printing quality.

**Feeding wheel**

Zero pressure Non crushing wheel installed as feeding wheel.

**Start protection device**

Can keep the main motor stop before all units close.

**Control panel**

Emergency stop button installer, PLC control, 5.7 inch touch screen.

**Printing Unit**

**Printing cylinder**

Outside diameter: 396mm, Thickness 14mm, surface coated with hard chromium.

**Printing pressure roller**

Outside diameter: 190mm, Thickness: 18mm.

**Sheet transmitting shaft**

Sheet feeding wheel is designed with fast moving structure.

**Anilox roller**

Outside diameter: 210mm, Thickness 22mm, surface coated hard chromium.

Line screen is 200-240LPI.

Angle: 60°, 45°, 30° and line 45-89° for choice.

Ink depletion: 8.6-11.9 cm3/m2.

**Printing registration regulating**

Electric control printing registration and gear system is planet structure. Digital display regulation volume.

**Ink supply system**

Diaphragm pump for supplying ink. Circular clean anilox roller, supply ink automatically.

**Doctor roller**

Outside diameter: 210mm, Thickness 18mm.

Doctor roller wrapped with high rubber thickness is 15+/-1mm.

Hardness of the rubber surface is HS55.

**Registration locking system**

Electromagnetic brake device for locking the registration position.
Stacker
Control method
7 inch touch screen installed to control the die cutting unit. It can control the die cutting registration. Emergency stop button is installed. Automatic model and manual model to control the sheet collecting arm.

Transmitting belt
Belt on collecting arm can adjust tension independently.

Sheet collecting table
The sheet collecting table can adjust incline degree and height according to sheet stacking height.

Lifting Chain
Strong chain to drive the sheet collecting table lift and down. Sheet stacking height 1600mm.

Die Cutting Unit
Anvil cylinder
Seamless steel tube. Outside diameter: 389mm, 40mm.

Anvil cover
Thickness: 9.4mm, 250mm, 389mm. Brand: Maxdura, DICAR, CUE.

Die cutting cylinder
Seamless steel tube. Outside diameter: 360mm, 40mm. Die amounting holes diameter: 10mm Use screw of size M10. Holes center distance: 100mm in horizontal direction, 18 holes with uniform distribution on circle.

Pneumatic lift device
When no need die cutting, the die cutting cylinder can lift the anvil cover cylinder driven by pneumatic cylinder.

Independent servo motor drive
Use KEB servo control system from Germany.

Slotting Unit
Pre-creasing wheel
One pair of pre-creasing shaft, equipped with four pairs of pre-creasing wheels. After pre-creasing, the corrugated sheet won't be easy to damaged.

Creasing wheel
Creasing wheel is coated hard chromium. Top creasing wheel is single line male wheel, bottom creasing wheel is flat wheel. Two part type creasing wheel.

Slotting blade shaft
Top & bottom shaft surface ground and coated hard chromium Slotting Registration. PLC and Frequency converter is used to drive registration regulation. When doing trimming regulation, still keep high accuracy.

Control panel
7 inch touch screen is used to control regulation of slotting registration, box length, box width and box height.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Max. machine speed</td>
<td>200 sheet/min</td>
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<tr>
<td>Suitable working speed</td>
<td>120-180 sheet/min</td>
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<tr>
<td>Max. sheet size</td>
<td>1200x2800mm</td>
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<tr>
<td>Min. sheet size</td>
<td>380x760mm</td>
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<tr>
<td>Max. printing area</td>
<td>1150x2800mm</td>
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<td>Sheet thickness</td>
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<tr>
<td>Printing die thickness</td>
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<tr>
<td>Min. slotting space</td>
<td>160x160x160x160</td>
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<tr>
<td>Max. slotting depth</td>
<td>7x300mm</td>
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<tr>
<td>Feeding accuracy</td>
<td>+/-1.0mm</td>
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<tr>
<td>Printing accuracy</td>
<td>+/-0.5mm</td>
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<tr>
<td>Die cutting accuracy</td>
<td>+/-1.5mm</td>
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</tbody>
</table>