

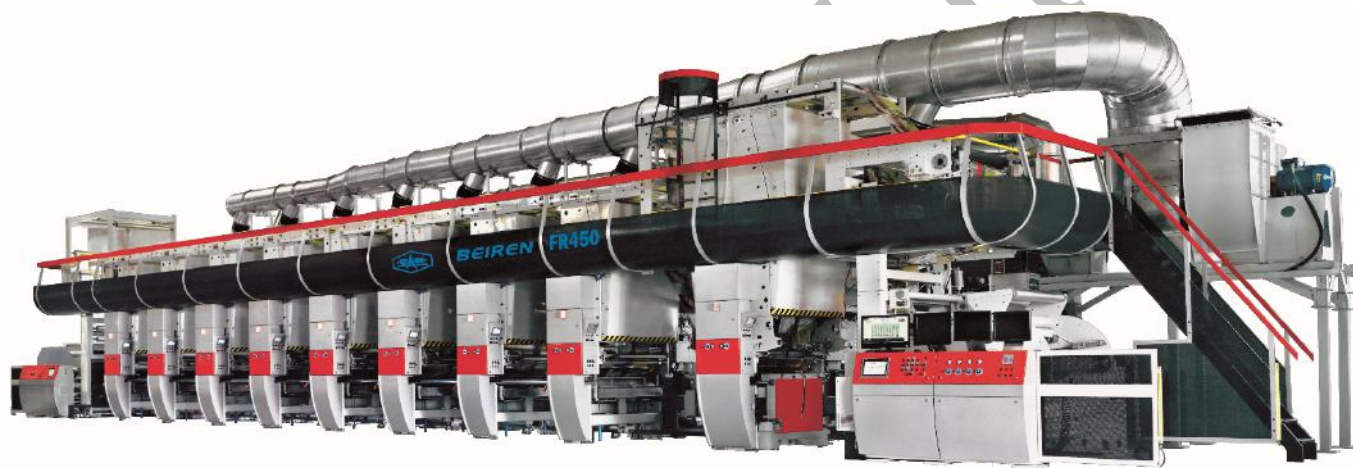
SHAANXI BEIREN NEWS

2020 PERFECT series ----- film rotogravure printing machine series

(FR450ELS/FR350ELS/FR300ELS)

Based on more than 50 years of packaging printing equipment manufacturing experience and integration of Cerutti advanced technology, SHAANXI BEIREN launched the high performance film rotogravure printing machines – **PERFECT series**, which include FR450ELS, FR350ELS, and FR300ELS.

PERFECT series – FR450ELS



Technical data

Materials: BOPP/ OPP / BOPA/ CPP/ CELLOPHANE/ PAPER, also suitable for other plastic films with the same characteristics with the above materials

- | | |
|--|--|
| ✧ Machine speed: up to 450m/min | ✧ Web fixing by safety chuck with air |
| ✧ Max. web width: 1300mm | expanding shaft (disc-type unwinder & |
| ✧ Plate cylinder width: 1350mm | rewinder) |
| ✧ Register accuracy: $\leq \pm 0.1\text{mm}$ | ✧ Unwinder/rewinder diameter: $\Phi 1000\text{mm}$ |
| ✧ Unwinder/rewinder paper core: 3" | ✧ Min. diameter of new web roll: $\Phi 300\text{mm}$ |
| ✧ Heating method: Electricity/ Thermal | ✧ Max. Temperature in dryer: Max. 90°C |
| oil/Steam | (Room temp. 20°C) |

Machine highlights

- ✧ Disc type unwinder & rewinder, Max. web diameter up to $\Phi 1000\text{mm}$
- ✧ One splicing cutter for upper and lower auto splicing;
- ✧ Digitized self-balancing tension dancer roller structure: motorized

control, encoder for precised adjustment, feed tension stable, accurate and reliable

- ✧ New design semi-floating oven structure
- ✧ Certified by CE certificate
- ✧ Fully closed, Teflon coated ink tray
- ✧ Motorized furnishing roller make sure for high quality printing and half tone printing
- ✧ Wear resistant and high performance ceramic surface treated guide roller
- ✧ Linear cutting knife for rewinder
- ✧ Each printing unit equips with 7' touch screen with the following advantages:



- ✓ Marker locking, adjustment, plate error correction, more convenient for operator.
- ✓ Curve drag function allows users to quickly adjust the position of the plate cylinder during pre-set
- ✓ Auto recognize the color mark, and move to the nearest mark,

reduce the touch error during drag

- ✧ High performance BST registration sensor with the advantages of explosion-proof, strong recognition ability etc.
- ✧ Drive and registration system with perfect integration, extensive data exchange platform, able to store large number of orders and information. It can store up to 2000 process recipes, more humanized operating experience.
- ✧ A number of highly qualified specialists in Shaanxi Beiren are available 24 hours a day, 7 days a week to support customers.
- ✧ Intelligent remote cloud service available



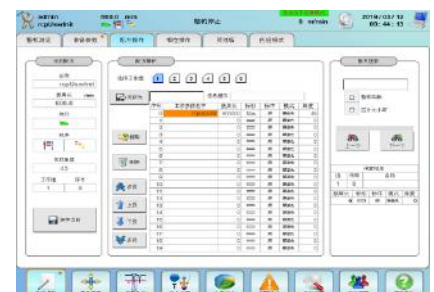
Digitized dance roller



Drying oven



BST sensor



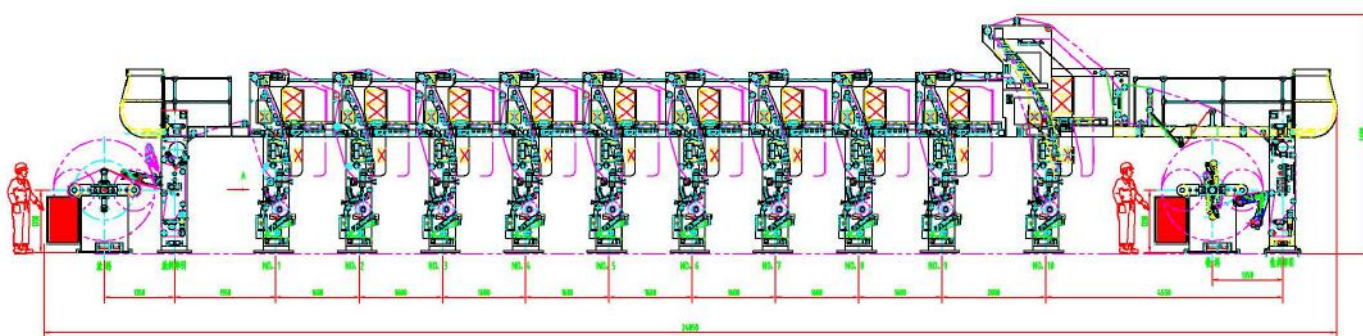
PERFECT series – FR350ELS & FR300ELS



Technical data

Materials: BOPP/ PET/BOPA/PE, also suitable for other plastic films with the same characteristics with the above materials

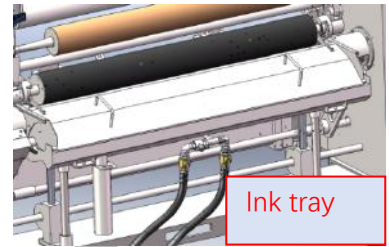
- | | |
|---|---|
| ✧ Machine speed: up to 350m/min, 300m/min | ✧ Heating method: Electricity/ Thermal oil/Steam |
| ✧ Max. web width: 1050mm or 1250mm, | |
| ✧ Plate cylinder width: 800-1150mm or 1000-1350mm | ✧ Web fixing by pneumatic taper chuck |
| ✧ Plate cylinder diameter: Φ 120-300mm | ✧ Unwinder/rewinder paper core: 3" |
| ✧ Register accuracy: $\leq \pm 0.1\text{mm}$ | ✧ Unwinder/rewinder diameter: $\Phi 800\text{mm}$ |



Machine highlights

- ✧ New design of drying oven with high air speed and flow rate, uniform temperature, good negative pressure, high drying efficiency and low solvent residue.
- ✧ Certified by CE certificate, with pull wire switch, safety guard, light alarm etc.

- ✧ Adopted ABB integrated control cabinet, comply with protection level IP54. Special heat dissipation channel, which meets the heat dissipation requirements, improve the stability of electrical components, extend the service period of equipment.
- ✧ B&R ELS driving system integrates with registration system as one system which provide more accuracy of registration and more quick response.
- ✧ Fully closed, Teflon coated ink tray
- ✧ Motorized furnishing roller for each unit
- ✧ Wear resistant and high performance ceramic surface treated guide roller
- ✧ Non-contact sensor for dance roller, more higher detection accuracy
- ✧ With order management, high volume job and information store, could store preset settings for 2000 different process recipes.
- ✧ With unit registration controller (7' touch screen) for each unit, could do mark lock, registration adjust, plate difference adjust and so on
- * Option for FR300ELS / standard for FR350ELS
- ✧ High performance BST registration sensor with color recognize function, good for even light color, weak color, small mark recognition.



Ink tray



Non-contact sensor



Registration unit controller



BST

Optional functions

- ✧ On line defects inspection
- ✧ LEL detection
- ✧ Turner bar for reverse printing
- ✧ Web guide
- ✧ Corona treatment
- ✧ Auto viscosity controller
- ✧ CO₂ fire extinguishing system



The new PERFECT series film rotogravure printing machine is suitable for the current flexible packaging industry requirements for green environmental protection, intelligent and efficient, safe production etc.

As a leading manufacturer of packaging, printing and new material application equipment in China, SHAANXI BEIREN will continue to uphold the principle of customer first and create value for customers in 2020.

*More details specification please contact with our sales or our agent by phone or email etc.

Director of Overseas Division	Andy Wang (Mr.)	+86-18829833987	andy.wang@shaanxibeiren.com
Malaysia/Philippines/Myanmar	Alan Wang (Mr.)	+86-15229639166	alan.wang@shaanxibeiren.com
Indonesia/Korea	Kathy Wang (Ms.)	+86-18706703658	Kathy.wang@shaanxibeiren.com
Vietnam/Poland	Steven Wu (Mr.)	+86-18291402970	steven.wu@shaanxibeiren.com
Turkey/Russia	Jori Jiao (Ms.)	+86-18992322869	jori.jiao@shaanxibeiren.com
Thailand/India/Japan	Frank Fan (Mr.)	+86-13571546026	frank.fan@shaanxibeiren.com
Mexico/Canada/Brazil	Trey Yang (Mr.)	+86-18329322910	trey.yang@shaanxibeiren.com

*Our local agent contact information

Malaysia agent	Tony Yau (Mr)	+6017 200 6817	tonyyau@corvet.com.my
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This is an exceptional 2020, despite the COVID-19 epidemic, we are here to support you together for overcoming this challenging times!

Contact us:

International Sales Hotline: 0086-913-2118681

<http://www.beireninternational.com>

Email: international.sales@shaanxibeiren.com



We look forward
to getting in touch with you!