



WRP-HI Series

Polaris

Intelligent High Speed
Rotogravure Printing
Machine



Unwind Unit

- Induction servo
- Dual shaft turret winding with auto position splicing
- Individual vertical splicing device offers size free option while minimizing the accumulation of halfway used roll



Infeed Section

- Infeed section by nip roller with parallel piston cylinder
- Precision auto tension control by frictionless pneumatic cylinder



Sectional Drive System

- WORLDLY has added a high precision sectional drive system to the WRP-HI to enhance printing performance. This system uses Japanese Sumitomo motors to control the sectional drives for each color, shortening motor reaction times compared to belt drive system and delivering greater position accuracy during the printing process



Printing Section

- Shaft-less device by pneumatic holder for easy access while unloading and uploading printing cylinders
- Inking roller built between printing ink reservoir and printing cylinder providing inks from the ink pan to rotogravure printing cylinder. The color intensity is maintained while printing and circulates ink in the system
- Doctor Blade Unit
Apart from additional bilateral blade holders, WORLDLY has increased a third central holder providing equal pressure for maximum printing quality



Rewind Unit

- Induction servo
- Dual shaft turret winding with auto position splicing
- Auto taper tension control- adjustable on human-machine interface
- Auxiliary pressure rollers prevent shifting and wrinkling to maintain smooth film at rewinding and guarantee a perfectly even edge



WRP-H Series

Computerize High Speed Rotogravure Printing Machine



In pursuit of high quality and efficiency in printing machinery, WORLDLY develops machines featuring human automatic operation and high stability of mechanical equipment made by specialized technology and deliberate design. Through PLC control, central control system with human-machine touch screen interface, and automatic alarm system, technical operators can easily and accurately control the printing quality. The collaboration of vertical and horizontal movements combined with alternation of shafts makes splicing accurate and stable. Exhaust Heat Recycling is specially built into the design to reduce the consumption of energy to create economic and environmental benefits.

Vertical & Horizontal Splicing Device

- Rewind Unit features the use of disc plate and double shaft for automation. The horizontal splicing movement supports the stability of machine while running at high speed and provides high quality tension control. Through the design of tracking roll, plus lay-on roller, this approach helps evenly line up the material roll with no errors.



Horizontal Splicing Device



Vertical Splicing Device

- The individual vertical splicing device on the unwinder has auto position control to achieve perfect splicing no matter the size of the roll. With this device, machine has no need to manually upload the film but continue the production with the halfway done material. It minimizes the accumulation of halfway used roll to have better control in production lost.



Exhaust Recycling System

- WORLDLY's printing press is comprised of exhaust heat recycling system. This system is able to recover up to 73% of reusable energy in the process, taking waste heat floating on the top of the drying hood, and save 40%-60% in electric power to reduce production cost in the long run. The standard pipeline system is perfectly suited for regular applications for flexible packaging.



Central Control System

- Integrated control panel includes human-machine interface touch screen, auto color register control system, video web inspection system, and PLC synchronize control for easy and user friendly printing production management.

Specification

MODEL	WRP-HI	WRP-HHI
Maximum Machine Speed	260 m/min	310 m/min
Printing Maximum Speed (Must depend on printing relevant condition, such as material and printing thickness)	250 m/min	300 m/min
Printing Width	1,000mm / 1,200mm	
Printing Cylinder Circumference	350mm ~ 900mm	
Material Diameter	Ø 600mm / Ø 800mm	

* All pictures and technical specifications are for reference only.

Applications

- PET, CPP, PVC, OPP, PP, PE, Nylon, Aluminum Foil, Paper

Options

- Auto register controller and pre-set system
- Shaft-less type
- Ink circulating system
- Ink viscosity controller
- Ink transfer roller
- Reverse unit
- Preheating hood
- Vertical & Horizontal splicing device
- Drying system options:
 - Steam, Thermal oil, Gas burner, Electric heater



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