The RK Rotary Coating/Printing/Laminating Machine
For Research & Development, Quality Control, Small Scale Production

FEATURES
- Easy to install and operate and extremely versatile
- Web widths up to 305mm (12 in)
- Speed range 0.4 to 90 meters per min
- Coatings and printing system changes in minutes
- Hot air, infrared, ultra violet drying/curing
- Excellent product visibility due to unique framework

The RK Rotary Koater is a flexible coating, printing and laminating machine. The base unit is available as a single-station or dual-station design. The bench mounted space frame accepts various printing and coating heads, web handling equipment and associated controls. The systems can be custom built for testing and production applications. Please contact us with your requirements.

APPLICATIONS
R&D, Quality Control, Pilot Production of inks, papers, laminated materials, polymer membranes, magnetic media, heat seal, tissue, adhesive tape, foils, bookcloth and more.
**Base Unit Features**

- Tubular stainless steel space frame mounted on phenolic resin plinth
- Pneumatically operated laminating or pull-off station
- Rewind station (reversible rotation) driven via pneumatic clutch
- Unwind station with manually operated brake
  Additional stations fitted when laminating
- Idler rollers nominal diameter 50mm
- Web speed display (m.p.m.)
- One or two coating stations for mounting coating/printing heads
- Main drive assembly employs a variable speed D.C. motor (non-flameproof or flameproof available)
- Control console
- Bench assembly with lockable tool accessor drawer

**Optional Equipment**

- Web run extension frames available as an option to extend space frame
- Hot air impingement dryer shown. Drum dryers, infrared and ultra violet equipment also available
- Further auxiliary equipment is listed on the back page

**BASE UNIT + COATING/PRINTING PROCESSES + DRYER & ACCESSORIES = CUSTOMIZED COATING MACHINE**
Printing/Coating Techniques
A selection from standard printing/coating processes available is shown below. Customised equipment can also be designed and built to meet customer requirements.

- Gravure
- Reverse Gravure
- Gravure Offset
- Flexographic
- Rotary Screen
- Kiss
- Meter Bar
- Reverse Roll
- 2 Roll Reverse
- Knife-Over Roll
- 2 Roll Pressure
- 2 Colour Gravure or Flexo
- Hot-Melt Extrusion or Gravure
- Size Press
- Laminating
- Air Knife
Rotary Koater
Model 30-30-01

Drying/Curing Systems

HOT AIR IMPINGEMENT DRYERS
Using a modular design, up to 4 modules can be fitted onto the base unit. They are electrically heated, temperature range up to 200°C (392°F). Non-flameproof or intrinsically safe systems are available.

DRUM DRYING UNIT
Consists of twin 150mm (5.9 in) diameter Teflon sleeved drums, fitted with 3kw electric heating elements to provide thermostatically controlled temperatures up to 150°C (302°F).

INFRARED
A set of 3 x 1kw lamps can be housed in each impingement module. Single or multi-lamp I.R. units also available with convenient space frame clamps.

ULTRA VIOLET
This compact lamp head (160w/cm) can be mounted in any position on the machine. It is supplied complete with trolley mounted control gear, exhaust fan, ozone filter and (if required) nitrogen purging of curing zone.

AUXILIARY EQUIPMENT
Optional equipment includes chill rollers, heated rollers, spreader rollers, edge guider, corona treater and all items normally available for printing and coating machinery.

SPECIAL APPLICATIONS
We have made many custom built systems to meet our client’s requirements for both testing and production machines. Using computer aided design we are able to quickly design and build customised equipment.

SPECIFICATIONS
Model 30-30-01
Speed Range 0.4 to 90 meters per min
Web Widths up to 305 mm (12 in)

Optional Accessories
• Chill rollers • Heated rollers
• Spreaders rollers • Edge guider • Corona treater

Physical Specifications
W x D X H 2.4 m x 1.0 m x 2.3 m (94.5 in x 39.4 in x 91 in)
Weight 500 kg (1,100 lb)-varies with configuration

Machine Requirements
Electrical Specify voltage requirements when ordering
Compressed Air 5.5 bar; 10 litres/sec. (20 cfm) max.