

## Coating & Drying /Curing System

The FlexCoater 105 from Proteck is a versatile machine for off-line process requiring: aqueous and UV coating, specialty inks in pattern and full coverage modes and sheet fed flexo-graphic printing on various kinds of substrates such as paper, board and plastic. A heavy duty machine with no-compromise construction quality, the TC 105 is vital equipment for general offline use in commercial printing and packaging. Key highlights are:

- Aqueous and UV coating in full coverage and "spot" modes
- Irodine, metallic inks and pearlescent finishes
- Anilox roller chamber doctor blade system
- Full complement of drying equipment, MW-IR, SW-IR, Hot-air and UV curing.
- High quality of coating and pattern printing
- Top register quality matching multi-color offset printing standards...
- Flexo printing and UV curing on non-absorbent substrates

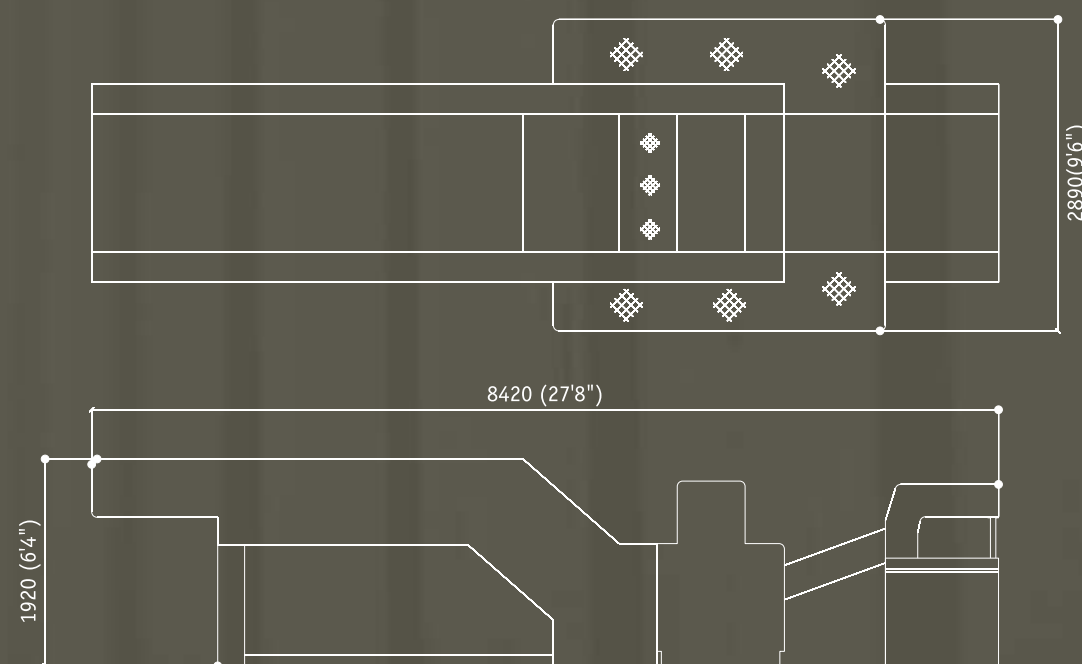
## DESIGN FEATURES

- High speed non-stop feeder optimized for wide stock range
- Servomotor driven main and auxiliary pile lifts
- Steel plate skid loading with easy alignment of paper pile.
- Full featured separator head with adjustments "on the run"
- Suction tape feeder for easy setting
- Sensors for register detection and sheet overruns
- Lower Swing Gripper design for high speed stable sheet handling
- Double diameter impression and transfer cylinders
- Secondary transfer system at delivery- unique design for low UV power levels
- Chain gripper high pile delivery system for high stacking quality
- Vacuum sheet decelerators, side joggers and steel delivery plate.
- Unique design for minimizing UV intensity requirements lowest power level in its' class.

## Build Quality

- Heavy duty construction : Machine weight of 11 tons !
- Generously sized components deliver sustained performance
- Cast cylinders made of ductile iron graded castings
- Tight tolerance and high precision in manufacture
- Tungsten carbide coated gripper tips
- Polyurethane gripper pads.
- Chrome impression cylinders, Stainless steel metalized blanket/plate cylinder
- No height setting for paper thickness range of 0.1 - 1 mm
- PLC and inverter control with off the shelf components.
- High performance electronic UV ballasts for lowest energy consumption
- No custom electronics used, "Service anywhere" standard parts in electrical / electronic system

## DIMENSIONS



## SPECIFICATIONS

| MODEL  | TC105  |
|--|--|
| Maximum Sheet Size   | 1,050 mm x 740 mm  |
| Minimum Sheet Size   | 540mm x 360mm  |
| Maximum Printing Size  | 1,040mm x 710 mm   |
| Maximum Press Speed  | 12,000 sheet/hour (sph)  |
| *Actual printing speed will be dependent upon size, thickness, and quality of stock being run as well as on the accuracy of register required and other operation, maintenance conditions. |  |
| Sheet thickness  | 0.08mm to 0.8mm  |
| Printing Plate Size<br>Cylinder Undercut (Plate + Packing)   | 1,050mm x 795mm<br>2.3 mm  |
| Paper Pile Height<br>Feeder<br>Delivery  | 1,300 mm<br>1,300 mm   |
| Machine Size   | (L x W x H) 7800 x 3000 x 2750 mm  |
| Machine Weight   | (approx.) 11 Tons  |
| Total Power Requirement<br>Main Motor<br>IR/Hot air dryer<br>UV curing system<br>Others<br>Peak power during operation   | (3 phase 380 - 415 V, 50/60 Hz)<br>11 kW<br>24 / 24 kW (Total 48 kW)<br>12 kW/unit ( Max 3 units)<br>10 kW<br>33 - 57 kW |

Due to continuous improvement in design, specifications are subject to change without notice



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High speed offline coater for spot and full coating of paper and board

# FlexCoater 105



**Main Electrical Cabinet**

Current technology distributed PLC control, minimizing wiring and electrical noise. No custom electronics used. All components are off the shelf and available globally.



**Split delivery section**

Unique delivery system split into three sections dramatically reduces the UV lamp to paper distance thereby drastically reducing lamp power requirements and resultant heating.



**Printing margin setting**

Printing margin from lead edge set by rotating the cylinder relative to gear. Easy access hatch on gear side.



**Coating System**

Anilox roller chamber doctor blade system for precisely metered ink and varnish transfer.



**Swing-Arm-and-Transfer**

Heavy duty lower swing arm construction with rugged transfer drum. Elliptical sheet support to eliminate any contact with fed paper on swing arm return stroke. Scratch protect guide rollers on swing arm grippers.



**Sidelay-Front-Lay**

Easily relocate side lay with integral scale marker for size setting. Convenient adjustment for setting lay pressure on the run. Infeed suction belts to ensure positive sheet lead edge contact with front-lays.



**UV Control System**

The best in class UV control with electronic ballast and full variable power, energy efficient and green technology.



**Delivery Side**

High pile delivery with non-stop insert board and single sheet access device, sheet slowdown wheel, adjustable side joggers, variable speed delivery fan array. High stacking and pile quality.



**Feeder Side**

All controls are provided on rugged heavy duty push buttons.



**Feeder**

Separator head with torque balance control cams. Feed speed of 12000 sph. Servo motor driven non-stop feeder. Four forwarding suckers and four pick-up suckers for stable handling of wavy board stock.