

Sheet Coating System

Solution Derived Nanocomposite (SDN™) technology – a unique alternative to the commonly used vacuum (PVD, CVD, etc.) coating systems. Advenira has developed a proprietary method for applying liquid coatings at large, industrial scale that enables volume manufacturing. Advenira's solutions replace conventional coatings through the use of liquid Nanocomposite precursors, removing the necessity of expensive vacuum chamber or high temperature deposition. Advenira's room temperature approach enable higher processing speeds, yielding throughput rates suitable for industrial applications.



Features

- Coat any flat material (Metal, Alloys, Ceramics, Plastics, Glass, etc.)
- Liquid deposition at atmosphere, room temperature
- Chemical bonding produces enhanced adhesion
- Produces a smooth and dense glassy coating
- Low cost deposition materials
- >90% utilization of liquid cartridges
- Can be integrated into high volume production line

Coatings

- Abrasion and scratch resistant
- Diffusion Barrier
- Transparent Conductive Oxides
- Corrosion resistance
- Optical Filters



Patented Coating Process

Typical Specifications

Cycle Time

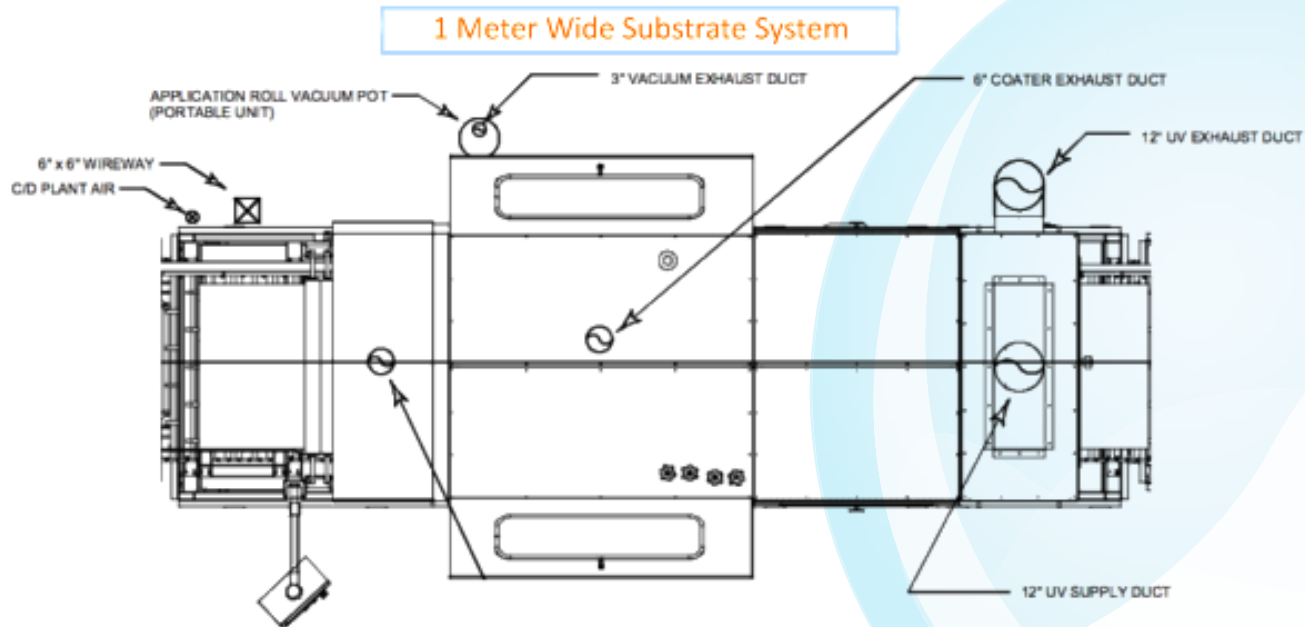
Coating Layers: 1 to 5
 Line Speed: 60cm/min <> 240cm/min

Substrate Handling

Fully Automated: Roll coating
 Width: Variable width based on customer specification
 Substrate Thickness: Adjustable

Coating Area

Top surface coated



Installation Requirements (Deposition system as pictured)

Physical Dimensions: 1.8W X 2.4H X 5.8L meters (6'W x 8'H x 31'L)
 Power: 240/480 VAC, Φ 3
 Air supply: 5.5 bar (80 psi), clean, dry
 Ambient Temperature: <35°C (<95°F)
 Ambient Relative Humidity: <95%, non-condensing
 Exhaust Ducts: 2 ea 300mm(12"), 2 ea 150mm(6"), 1 ea 75mm (3")

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