

3D-Hybrid Coater System

Solution Derived Nanocomposite (SDN™) technology – a unique alternative to the commonly used vacuum (PVD, CVD, etc.) and non-vacuum (anodizing, electroplating, 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 furnace deposition. Advenira's room temperature approach enable higher processing speeds, yielding throughput rates suitable for industrial applications.



Features

- Coat any 3D shape or material (Metal, Alloys, Ceramics, Plastics, Glass, etc.)
- Liquid deposition at room temperature
- Chemical bonding produces enhanced adhesion
- Produces a smooth and dense hard coating
- Low cost deposition materials
- >90% utilization of liquid cartridges
- Many coating formulations available for industrial applications
- Diverse markets and applications



Patented Coating Process

Main Specifications

Cycle Time

10 minutes per part in continuous operation

Substrate Handling

Fully automated Conveyor

Size: based on customer sample

Weight: max 23kg (50 pounds)

Coating Area

All sides and surfaces

Select surfaces

Installation Requirements (Deposition system as pictured)

Physical Dimensions: 10W X 3.33H X 2.2D meters (33W x 11H x 7D feet)

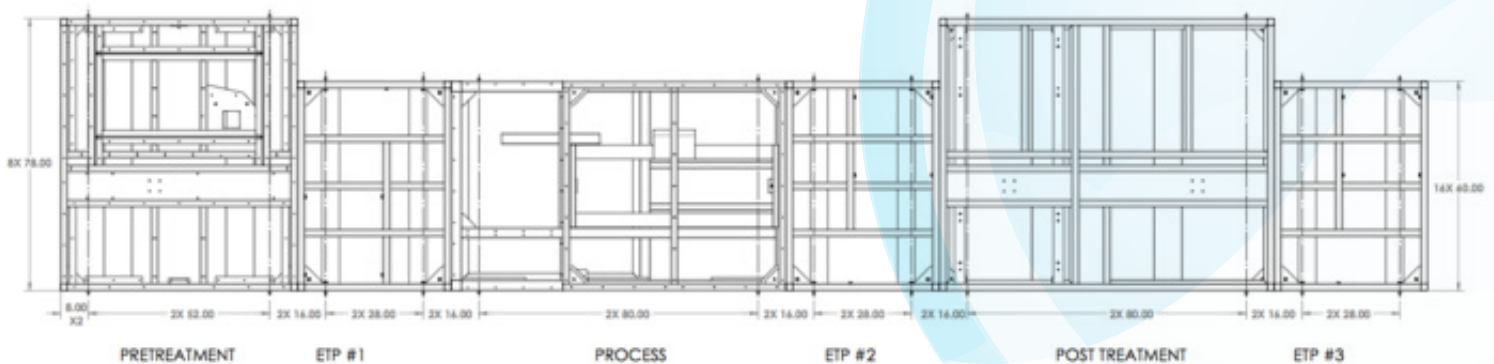
Power: 240/480 VAC, $\phi 3$

Air supply: 5.5 bar (80 psi), clean, dry

Ambient Temperature: $<35^{\circ}\text{C}$ ($<95^{\circ}\text{F}$)

Ambient Relative Humidity: $<95\%$, non-condensing

Exhaust Ducts: 4 each 150mm (6 inches) (top mounted)



System Layout

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