



HIGH EFFICIENCY VERTICAL POWDER COATING SYSTEMS

Color Change Time

The flexible design of the vertical powder coating booth allows the booths to be used either in series or in parallel operation. Trevisan Tellkamp vertical powder coating systems utilize a unique overhead conveyor system that allows load bars of extrusions to move between powder coating cells for higher productivity and throughput while minimizing down time.



Each powder coating cell contains one or two vertical powder coating booths complete with automatic powder application equipment and high efficiency powder recovery system. In series operation, powder coating of both sides of the extrusion is easily accomplished using a single powder booth by rotating the extrusions 180 ° at the mid point of the vertical booth.

Operating in series, one or two powder coating booths can be used for production while the additional booth(s) in the second powder cell are cleaned during a color change. Parallel operation allows two vertical booths to be used at high speed (for the powder coating process) to maximize the production capacity of the system.

The simple design of the automated vertical powder coating booth allows color changes to take place in as little as 15 minutes.

Color Change Costs

The unique design of the Trevisan Tellkamp vertical powder coating booth allows for quick color changes with minimal downtime and materials costs. Each powder coating booth uses two (2) rolls of a polyethylene material to contain any overspray from the powder coating process.

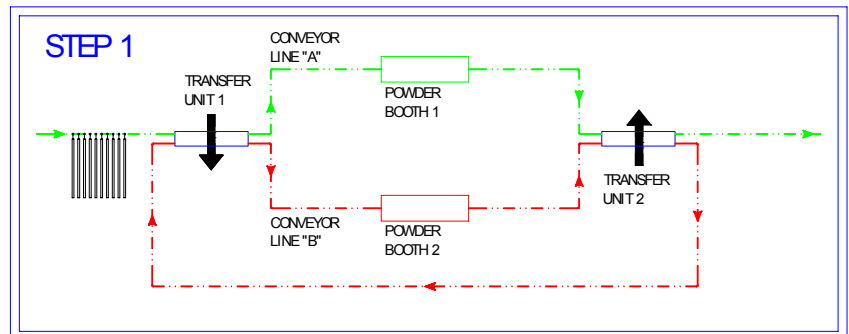
The polyethylene material is changed using an automated system that advances the clean material down from the top of the powder booth. The polyethylene sheeting that may have powder overspray on it is collected on a take-up roll at the booth of the powder booth.

The polyethylene sheeting is typically not changed during color changes between similar powder colors or during short color runs where powder recovery is not required. The cost to change the polyethylene material is very low.

Each vertical powder booth uses two (2) rolls of material. Each roll provides enough material for 90 color changes. The rolls of polyethylene sheeting are located at ground level. The material cost per color change is minimal.

Powder Reclaim System Efficiency

The Trevisan Tellkamp Vertical Powder Coating Booth uses a unique booth design and a high efficiency cyclone system to recover and reclaim powder coatings. The high efficiency cyclone system can recover approximately 98% of the powder overspray and return it to the powder feed system for reuse. The easy to use cyclone system offers powder reclaim as well as spray to waste capabilities.



Powder Coating Booths in Parallel Operation