



Kent Pultrusion, LLC

ServoPul Pultrusion

www.kentpultrusion.com

CASE STUDIES

Utility Pole Line

- Pulling Window to accommodate for the 16" Diameter Profile
- 70,000 lb Pull and Clamp Force
- In line saw system cutting multiple lengths speeds up to 80" per min
- The line incorporates a pulling winch system that facilitates access for product setup





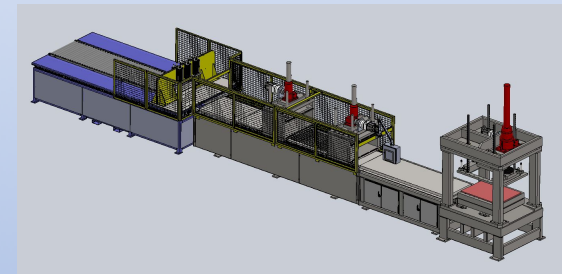
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50,000 lb ServoPul Installation

CASE STUDIES

50,000 lb ServoPul Pultrusion Line with cross-cut saw for 36" wide sheets and special shapes; Line incorporates a 75 ton die press to control the deflection within the sheets



- 50,000lb Pull & Clamp force
- 40" wide by 18" high Pulling Window
- Line Speeds up to 60 IP
- Flying Cut-off Saw inline with the Pultruder



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CASE STUDIES

Single Stream Carbon Fiber Pultrusion Line



- 40,000lb Pull & Clamp force
- 32" wide by 12" high Pulling Window
- Line Speeds up to 78 IP
- 12 Heat Zones @ 3,000 W each
- Flying Cut-off Saw inline with the Pultruder
- Hydraulic Winch System for initial threading of the material during set-up rated at 40,000lb capable of pulling through both puller sleds

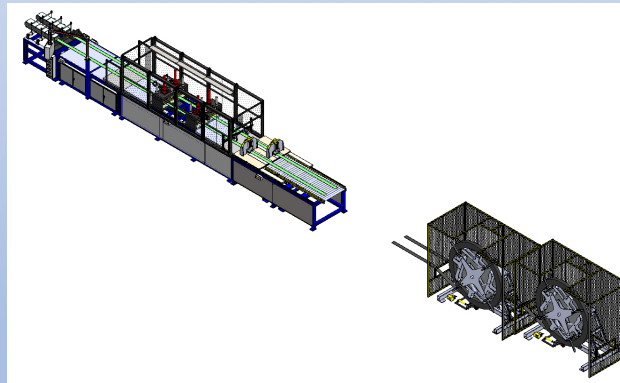


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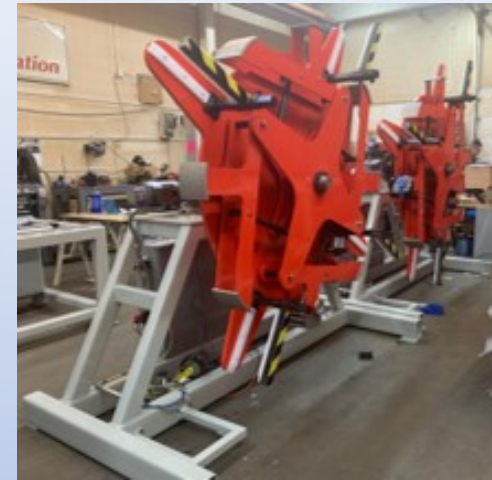
Spar Cap Carbon-Fiber Pultrusion Line & Spool Winders

CASE STUDIES

- 30" wide by 6" high Pulling Window to accommodate for two (2) windows at 15"
- Pulling continues Carbon Fiber Spar Cap Profiles
- 30,000 lb Pull and Clamp Force
- In line saw Dual Up-cut in line with the Winders



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- Collapsible Spindle for Spool Unloading
- Linear Encoder for Length Measurements
- Adjustable platen width for handling different material width
- Continuous Carbon Pultrusion Sheets are feed from Pultrusion Machine into Spooling Winder.
- Winder initiates spooling process to match line speed.
- Winder increases speed after saw cut to finish cycle and allow time for banding/unload.
- Adjustable width platen guides can accommodate sheet width variance
- Spool Winder allows for manual banding of carbon fiber spool.



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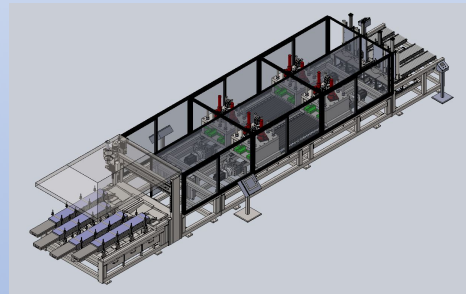
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Four Lane Pultrusion Line

CASE STUDIES

Four Lane ServoPul Pultrusion Line For Automotive Industry

Kent ServoPul 0806 Four Lane Pultrusion Line



Four Lanes - Mechanical ability to tie lanes together for potential future operations as well as the ability to operate as one single, large, wide lane.

Four individual saws with angling features up to 20° in both directions from perpendicular to the production axis of the Pultruder Lanes





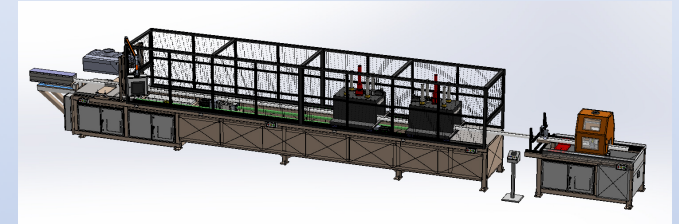
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CASE STUDIES

Processing Fiberglass Window Lineals



- 12" wide by 13" high Pulling Window to accommodate for the Window shapes and flat profiles
- 10,000 lb Pull and Clamp Force
- Line Speeds up to 120 IP
- Single Lane Upcut Exit Saw inline with the Pultruder



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CASE STUDIES

Processing Fiberglass Cross Arms



- 24" wide by 12" high Pulling Window to accommodate for the square hollow lineal profiles
- Pulling two 4" X 4" lineal squares at a time
- 30,000 lb Pull and Clamp Force
- In line saw system cutting to lengths from 2' to 12' long at speeds up to 80" per min
- The line incorporates a pulling winch system that facilitates access for product setup



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TURN-KEY PULTRUSION SYSTEMS

Flat Sheet, Structural Shapes, Complex Profiles, and Secondary Equipment – **CASE STUDIES**



Kent Pultrusion supplied the largest Flat Panel Composite Pultrusion Line in the world processing 10 feet wide by 2"-4" thick product for the transportation industry.



Kent Pultrusion supplied four (4) carbon fiber ServoPul Pultrusion lines for the wind energy market



Kent Pultrusion Supplied several Pultrusion lines for the road construction industry to replace steel dowels and rebar with pultruded composite material.





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Equipment Installed in Existing Pultrusion Lines

CASE STUDY

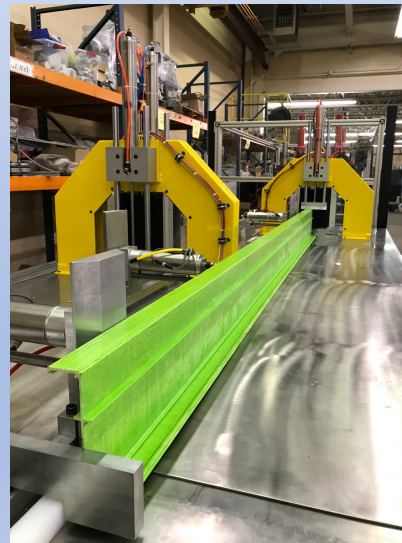


**FIBERGLASS PANEL
FLYING CUT OFF SAW**
Kent Pultrusion supplied an in-line saw solution for 48" wide by 144" long sheets at thickness up to 7/16". The line speed is 40" per minute.

INLINE PULTRUSION COMPOSITE CUTTING SOLUTIONS



Flat Sheet Line Cut-off saw system



Up-Cut Saw for Shapes



Cut-off System with Dump Tray



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Equipment Installed in Existing Pultrusion Lines

In-Line Winch System

To facilitate access for product setup.

- The Winch is a modular assembly that will can be dropped in assembly
- Winch pull to be able to start one lane at a time or both with an adaptable Pull mechanism
- Approximately 75ft (+) drum capacity for 5/8" or 3/4" cable capable of pulling through both puller sleds



Option between saw and puller as a drop in assembly



Option of at the end of the saw and would be bolted and secured for the pulling forces.



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Equipment Installed in Existing Pultrusion Lines

Custom Automated Carbon-Fiber Pultrusion Spool Winders

- Collapsible Spindle for Spool Unloading
- Linear Encoder for Length Measurements
- Adjustable platen width for handling different material width
- Continuous Carbon Pultrusion Sheets are feed from Pultrusion Machine into Spooling Winder.
- Winder initiates spooling process to match line speed.
- Winder increases speed after saw cut to finish cycle and allow time for banding/unload.
- Adjustable width platen guides can accommodate sheet width variance
- Spool Winder allows for manual banding of carbon fiber spool.

