



# Fabric Coating

Global market leader in fabric coating & process efficiency

## Extrusion Coating Systems



# About Davis-Standard



## Who We Are

Davis-Standard is a global leader in the design, development and manufacture of extrusion and converting technology. Our systems encompass over 10 product lines to support manufacturing applications and customers in a wide variety of industries, including automotive, building & construction, consumer products, medical, and packaging.

With more than 1,400 employees worldwide and a network of independent sales agents and suppliers in nearly every country, Davis-Standard is committed to engineering systems for you that are cost-effective, environmentally friendly, and offer a high return on investment. The company has manufacturing and technical facilities in the United States, Canada, China, Germany, Finland, Switzerland and the United Kingdom.

## Our Purpose

We exist to help you produce products that improve everyday life. Though we are removed from final production of your end products, we are central to the manufacturing of many of the world's essential, or even life-altering, products. Many of these products would not exist without us. Like you, we take that responsibility seriously.

## Our Promise

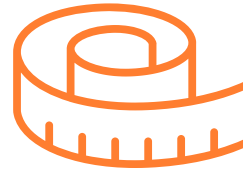
We optimize our customers' productivity and profitability by providing the best total solution (product + support). We serve our customers from a unique perspective. While our competition generally focuses on machine technology, we focus on providing the best total solution. That means, we supply the best combination of product and support services to help customers achieve their business goals.

# Davis-Standard Offers

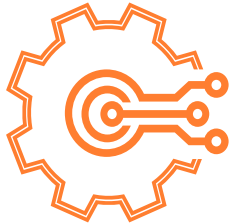
Proven equipment technology used by market leaders for the fastest payback due to increased productivity



Experience



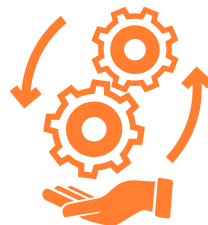
Tailored Design



Technology



Global Support



Total Solutions

**Let us tell you how...**









## Process & Application Experience

- Adapt & design to customer's structure and requirements
  - Equipment design to match technical & business needs
- 
- |                        |                       |
|------------------------|-----------------------|
| - Extruder package     | - Laminator           |
| - Web handling         | - Controls & drives   |
| - Reduce waste         | - Ancillary equipment |
| - Winder               |                       |
| - Optimum roll quality |                       |



# Case Study - Typical Tandem Fabric Coating Line

## Extrusion Coating Systems - Fabric Coating

### Fabric Coating Line

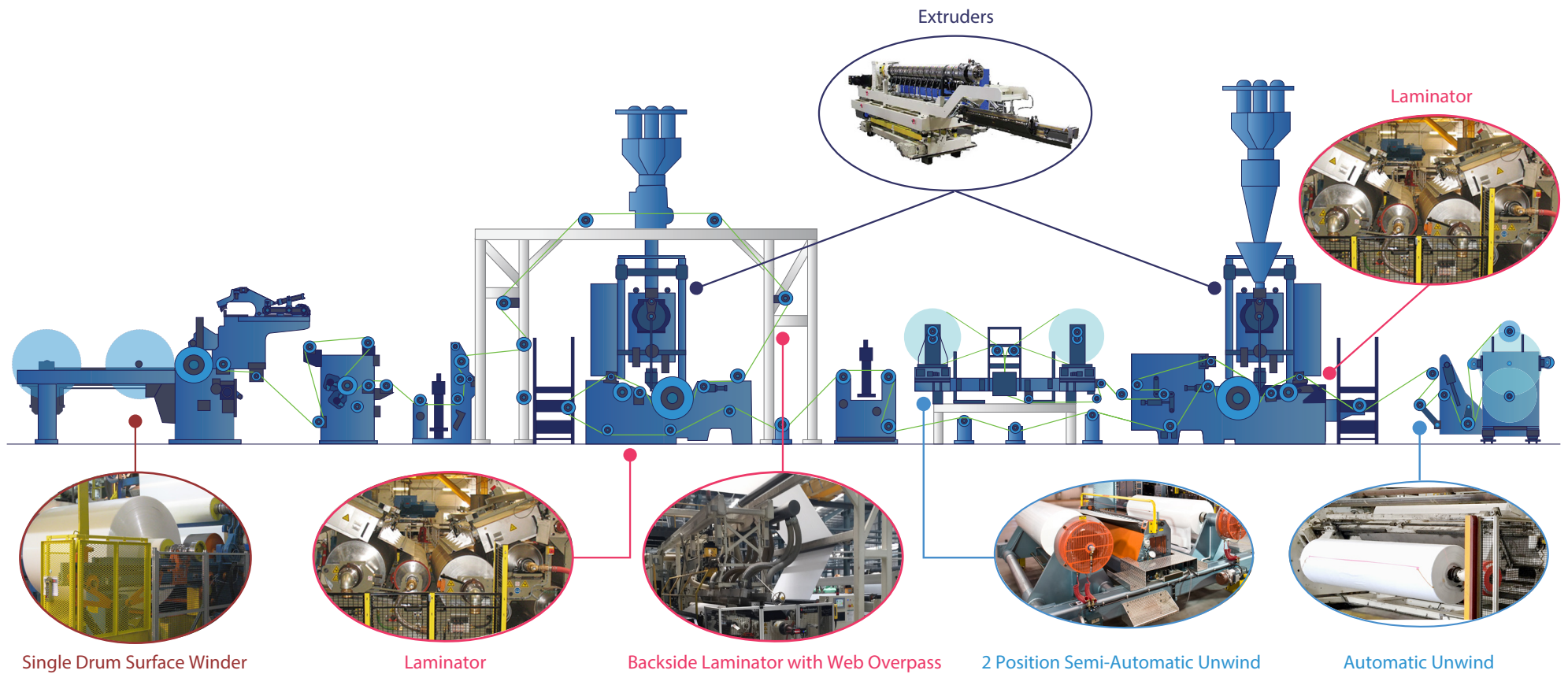
- Tailored design for diverse structures, regulatory & business needs
- Technology for optimum speed, quick change and reduced waste
- Regional after-sales support / service centers

### Applications

Roofing underlayment, house wrap, pole buildings, pond liners, advertisement banners, lumber / steel wrap, industrial / food bulk sacks, conveyor belts



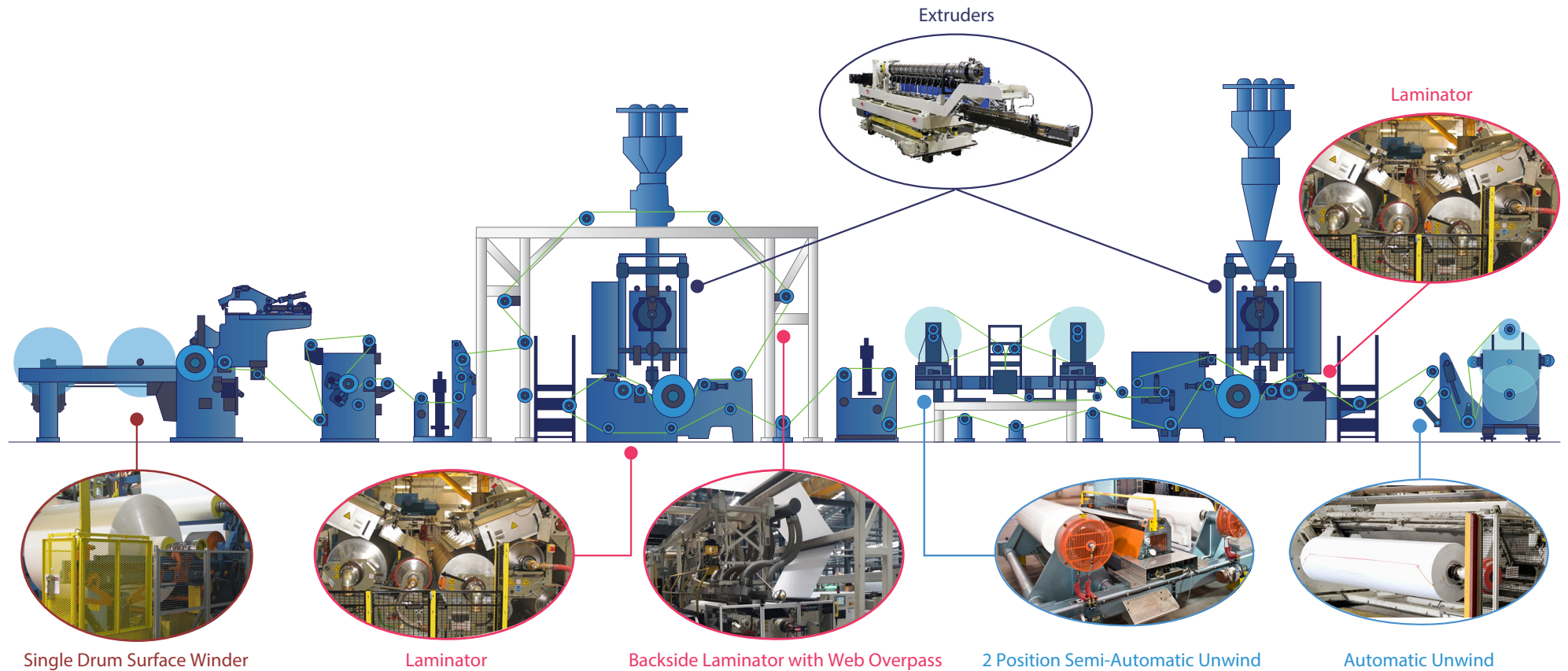
- Designed to handle diverse substrates - woven / non woven / knitted
- Tailored for automation and output per current business needs via selection of unwind, winder, extrusion / coextrusion stations and mono / tandem configurations
- Designed for upgrades as business grows
- Maximum web width - 1200 to 5200 mm
- Machine line speed - 100 to 450 m/min







# Technology Extrusion Coating Systems - Fabric Coating Line





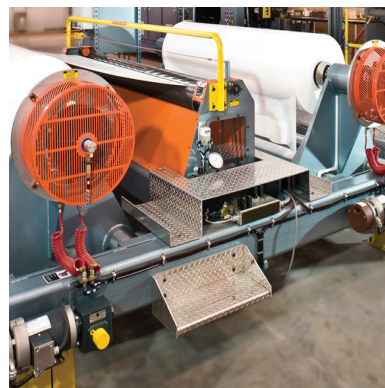
## Automatic unwind



### Selected Features

- Dual direction (shaftless / shafted) splicing via paster roll
- High speed (400 m/min)
- Chopper or rotary shear knife

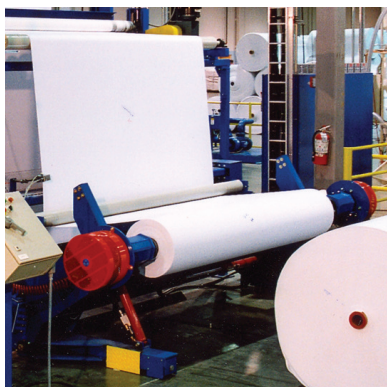
## 2 position semi-automatic unwind



### Selected Features

- Dual direction (shaftless / shafted) splicing via splice nip
- Speed - material dependent
- Rotary shear knife

## 1 position unwind



### Selected Features

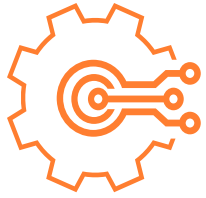
- Dual direction (shaftless / shafted) splicing via sewing
- Zero speed with accumulator
- Rotary shear knife

## Extruder and screw design

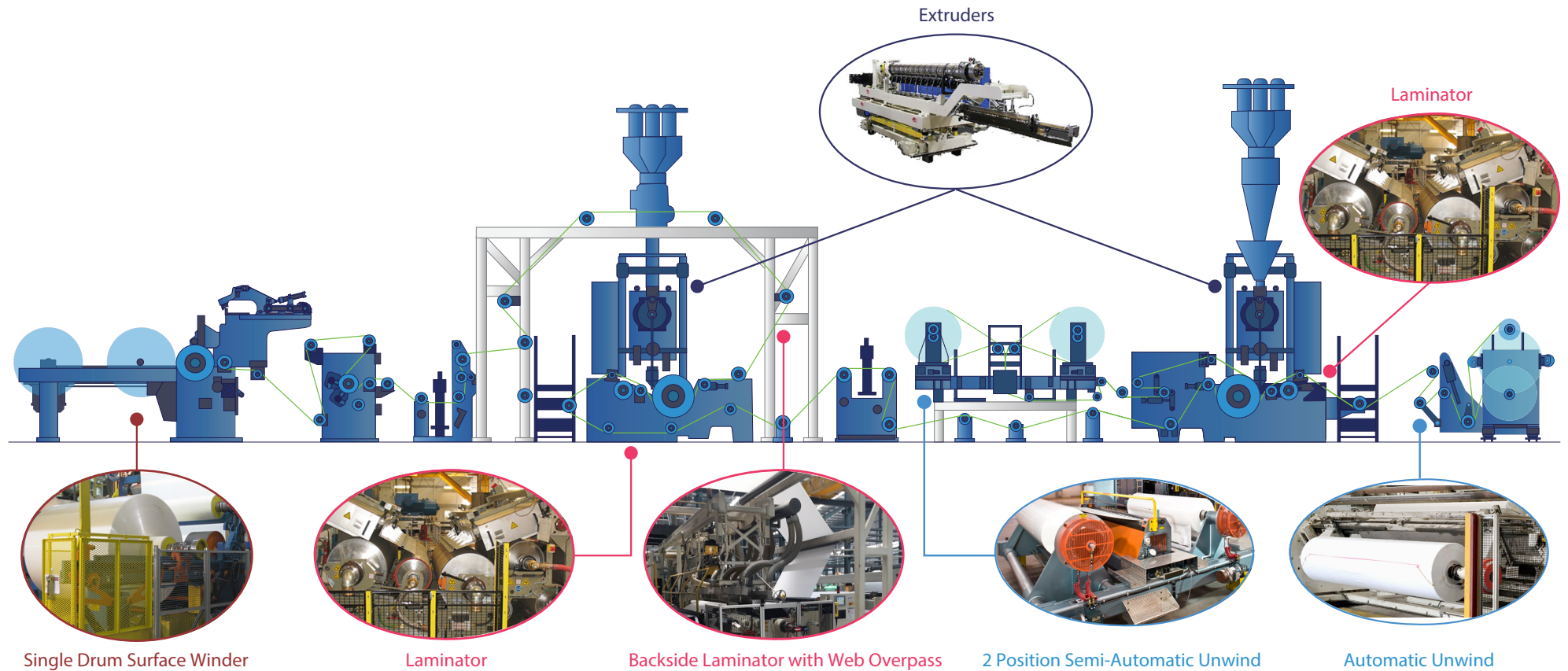


### Selected Features

- Temperature control for melt quality
- Tailored to your specifications - coextrusion system available
- Screw design for wide range of resins and superior pigment distribution



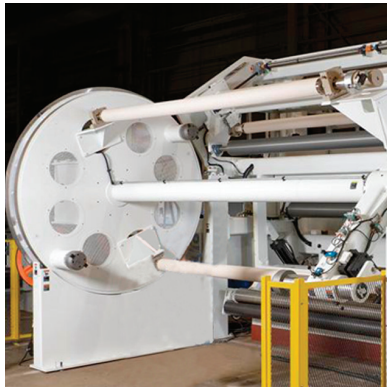
# Technology Extrusion Coating Systems - Fabric Coating Line







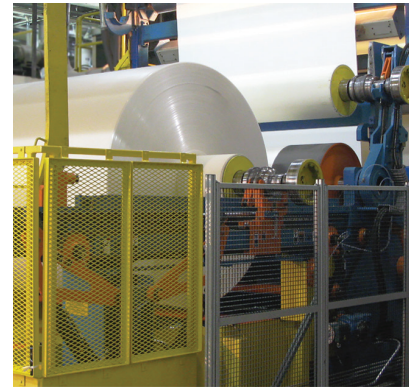
## Automated winder



### Selected Features

- Dual direction (shaftless / shafted) splicing via pastor roll
- High speed (400 m/min)
- Chopper or rotary shear knife

## Single drum surface winder



### Selected Features

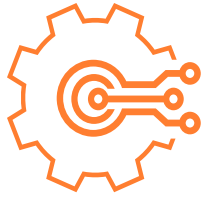
- Single direction shafted transfers via surface drum
- High speed (400 m/min)
- Plow or transverse knife

## 1 or 2 position winder

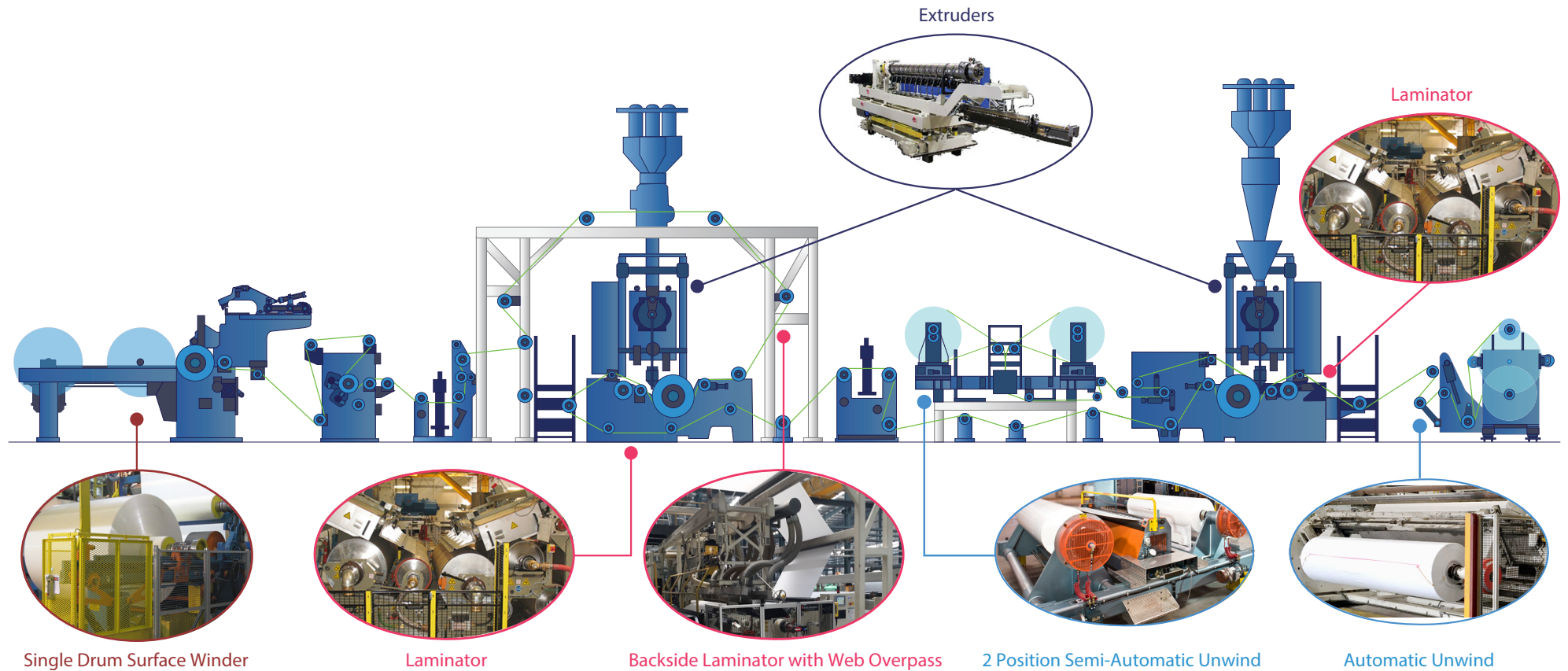


### Selected Features

- Dual direction (shaftless / shafted) manual transfer
- Zero speed with accumulator
- Rotary shear or manual knife



# Technology Extrusion Coating Systems - Fabric Coating Line





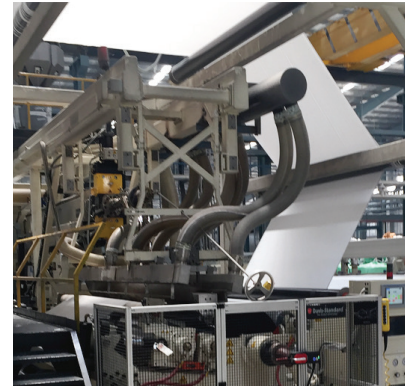
## Laminator design



### Selected Features

- 3 roll linear nip pressure for superior adhesion
- Quick change of 3-roll to 2-roll nip configuration with mechanical gap stops
- Multiple cooling loops for superior web control

## Backside laminator with web overpass



### Selected Features

- Design enables top and bottom coat in 1 pass operation
- Reversible option enables top / bottom or top / top coat in 1 pass operation

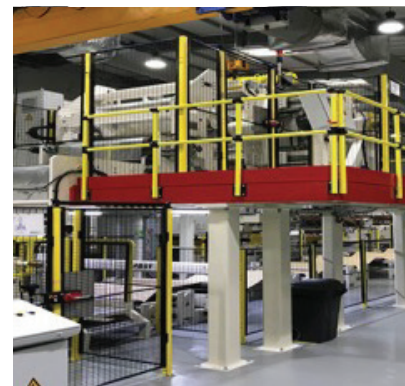
## Integrator PRO supervisory control system



### Selected Features

- Recipe capability for repeatability
- Custom controls for drives, pressures & gauging system
- Compatible with all industry analog & digital drives controls
- Historical data capture

## Web handling



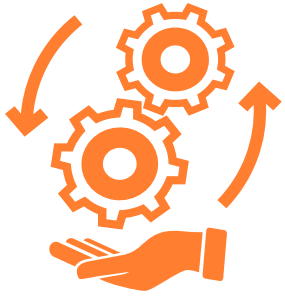
### Selected Features

- Optimum speed from start to finish
- Flexibility to handle diverse materials
- Precision tension control for premium quality rolls
- Contact / non contact web cleaners, inspection and gauging for superior uptime / product quality









# We Offer a Total Solution



## Stewardship - Start to Finish

1

### PRE-SALE SUPPORT

- Tailored design based on customer technical & business needs
- Pricing, timing and delivery options presented

2

### PROJECT MANAGEMENT

- Workflow, process integration to track build & delivery time
- Frequent 2 way communication

3

### INSTALLATION & COMMISSIONING

- Davis-Standard teams are the most experienced/skilled in the industry
- Operator & maintenance training

4

### AFTERMARKET

- Low cost of total ownership
- Regional locations for quick spares & support



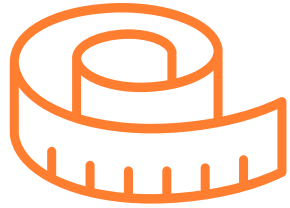
24/7 Emergency Support Request +1 844 MY DAVIS (+1 844-693-2847)

Collaborative Partner for your Entire Line









# Tailored Solutions

Partnership to take standard offering & tailor to customer's business & technical needs

## **Innovation Starts Here**

Davis-Standard has mastered the art of working with progressive customers and industry partners to break old paradigms and develop extrusion and converting product platforms that provide a competitive advantage.

## **Packaged Solutions**

From concept to reality, experienced engineering teams turn specific objectives into high performance manufacturing solutions. Well-equipped extrusion pilot facilities enable customers to test and prototype concepts, building a foundation of confidence.

## **Customization Is Key**

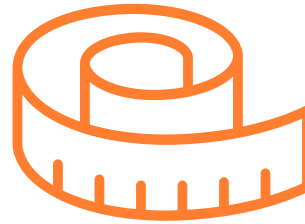
Major components of our extrusion lines are often tailored to address specific customer needs. This can be as simple as combining existing design elements in a unique way or developing a new solution to enhance existing capabilities.

## **Technology Leadership**

By consistently reviewing technology fundamentals, Davis-Standard addresses major industry trends of industry 4.0 & productivity improvements.







# Research and Technical Centers

## 1200 mm Coextrusion Coating Lab Line

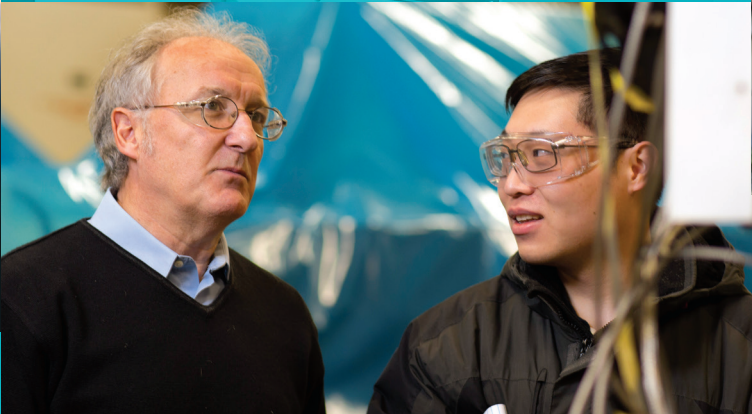
- Multiple unwind positions
- Surface treatment
- Automatic die

## Extruder List

- 3/4 inch extruder
- 1 inch extruder
- 2.5 inch direct drive extruder
- 2.5 inch high speed extruder
- 2.5 inch Helibar extruder
- 3.5 inch extruder (smooth & grooved feed)
- 4.5 inch extruder







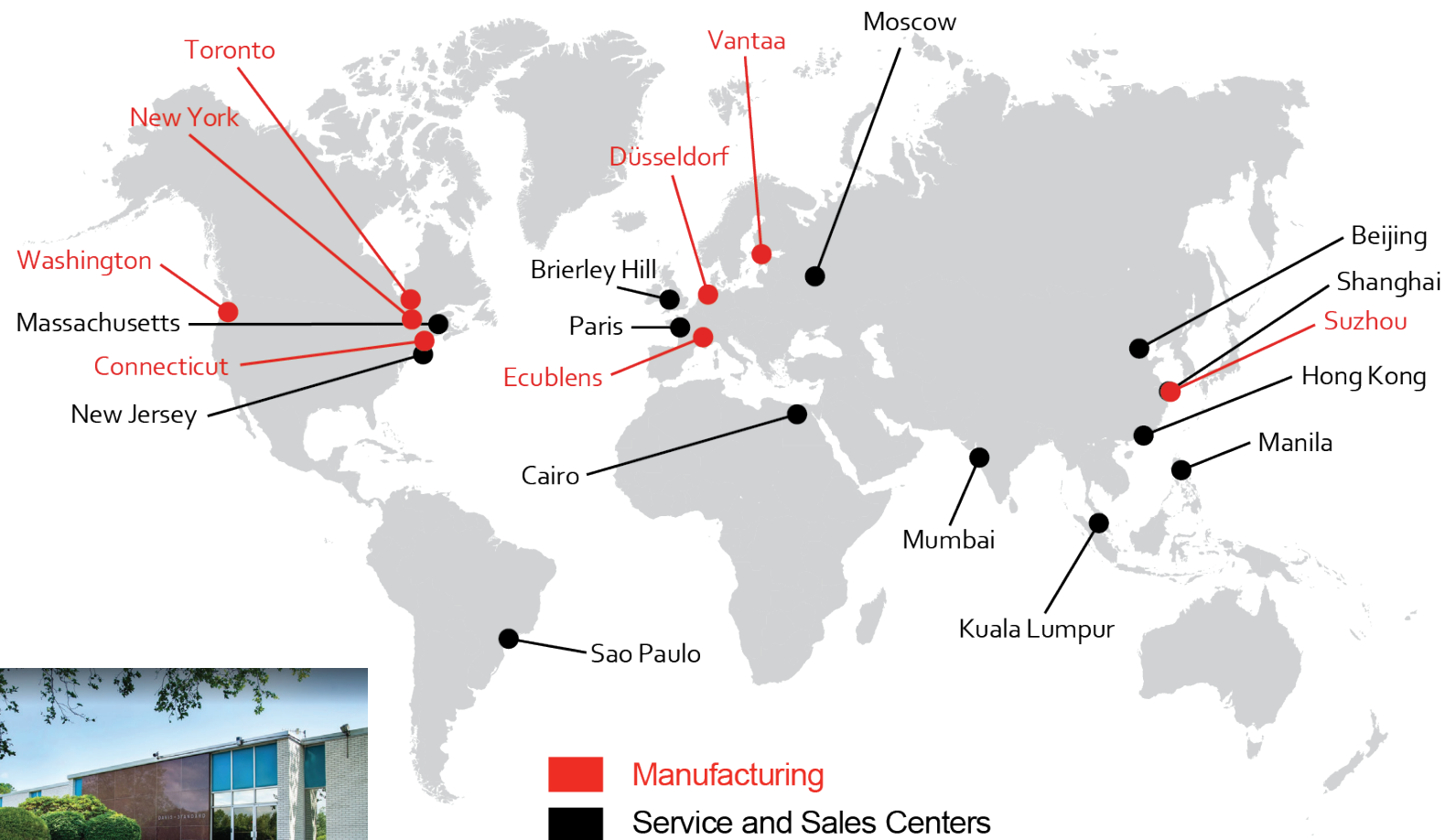




# Davis-Standard - A Global Company

Production Across Three Continents

- Quick Response Parts & Service



Pawcatuck, Connecticut, USA



Fulton, New York, USA



Suzhou, China



Erkrath/Düsseldorf, Germany

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The background is a blurred industrial scene, likely a textile or garment factory, showing machinery and workers. A large, semi-transparent teal 'X' graphic is overlaid on the image, with its center in the middle. The text is arranged around this 'X'.

PRODUCTION INNOVATION

COST CONTROL

TAILORED SOLUTIONS

SPEED-TO-MARKET

DIGITAL TRANSFORMATION

UPTIME





Helping make your product ideas real.



## PUT US TO WORK FOR YOU.

We strive to do whatever it takes to ensure that you are able to produce a superior end product, at a superior profit. Contact us today to learn how we can help you succeed.



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[www.davis-standard.com](http://www.davis-standard.com)

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