



# Cast Film

Best-in-class technology for  
high barrier film

## Cast Film 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

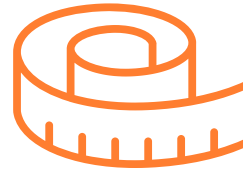
We optimize our customers' productivity and profitability by providing the best total solution (product + support). We serve our customers from a unique perspective. While our competition generally focuses on machine technology, we focus on providing the best total solution. That means, we supply the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

# Davis-Standard Offers

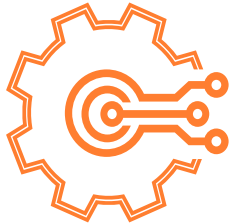
Proven equipment technology used by market leaders for the fastest payback due to increased productivity



Experience



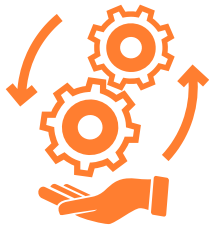
Tailored Design



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 | - Optimum roll quality |
| - Web handling     | - Controls & drives    |
| - Reduce waste     | - Ancillary equipment  |
| - Winder           |                        |



# Case Study - Typical High Barrier Film Line

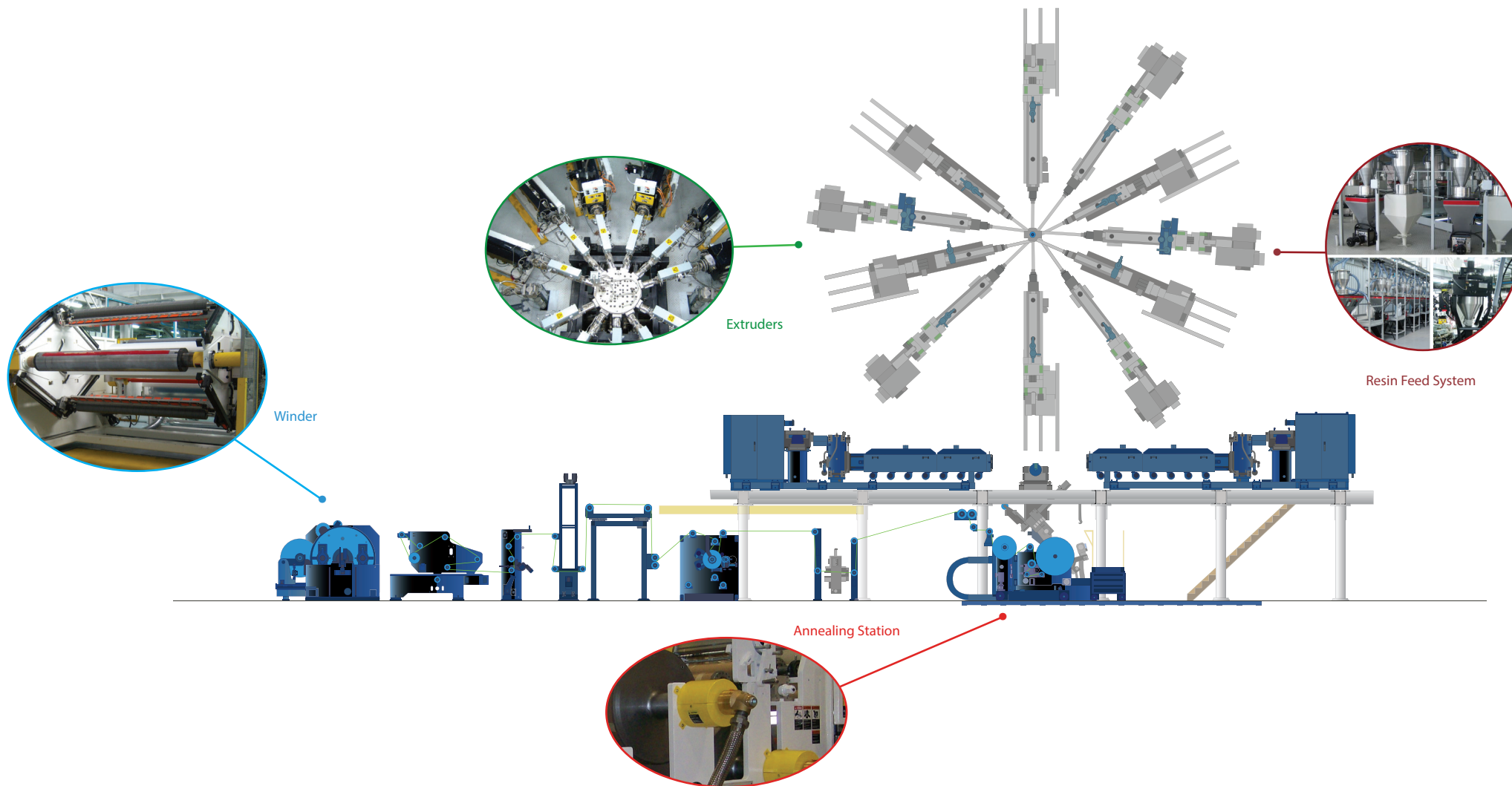
## Cast Film Systems - High Barrier Film

### High Barrier Film Line

- Tailored design to address diverse barrier structures and business needs
- Technology for reduced waste
- Regional after-sales support / service centers



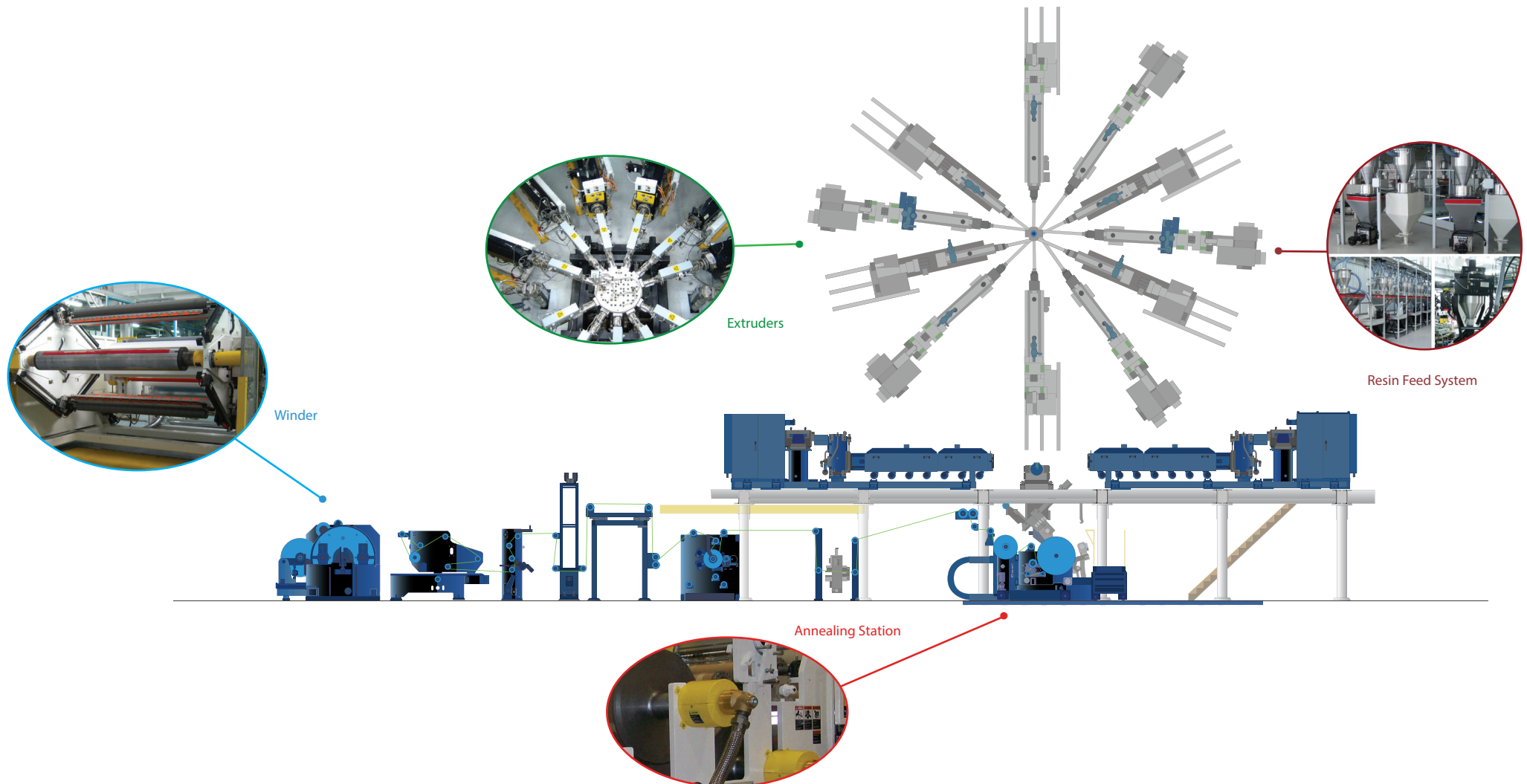
- 7, 9, 11 or more layers / extruders as desired
- Extruders mouted on platform above casting unit
- Finished web width - 2000 mm - 3600 mm (79" - 142") - as per customer request
- Nominal machine roll face - 2950 mm (116 inches)
- Machine line speed - up to 250 m/min (820 ft/min)
- Web thickness - 75 - 300 micron
- Max roll diameter - 1200 mm (47 inches)
- Process capabilities for PA, PE, mPE, PP, PET, EVOH and Tie





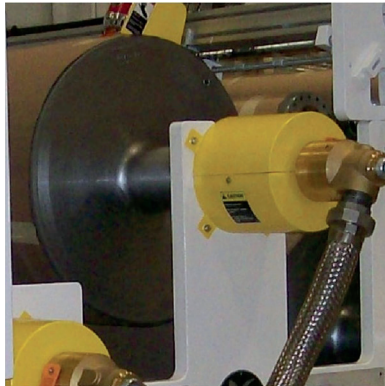


# Technology **Cast Film Systems - High Barrier**





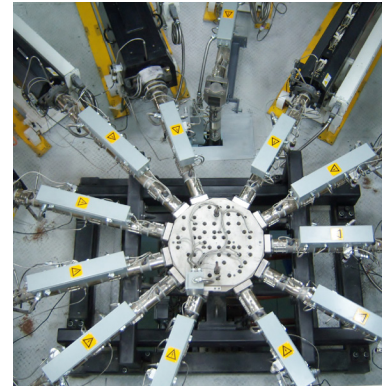
## Annealing station



### Selected Features

- Superior quality film
- Operational flexibility

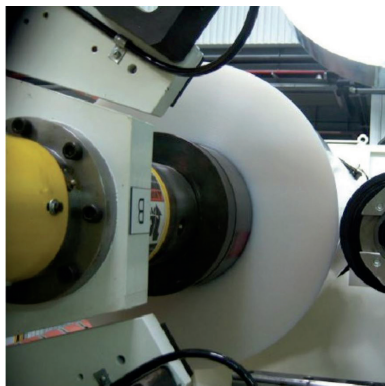
## Extruder technology



### Selected Features

- Maximum process flexibility
- Extruders designed for desired output
- Reduced gels and enhanced melt quality

## Winder technology

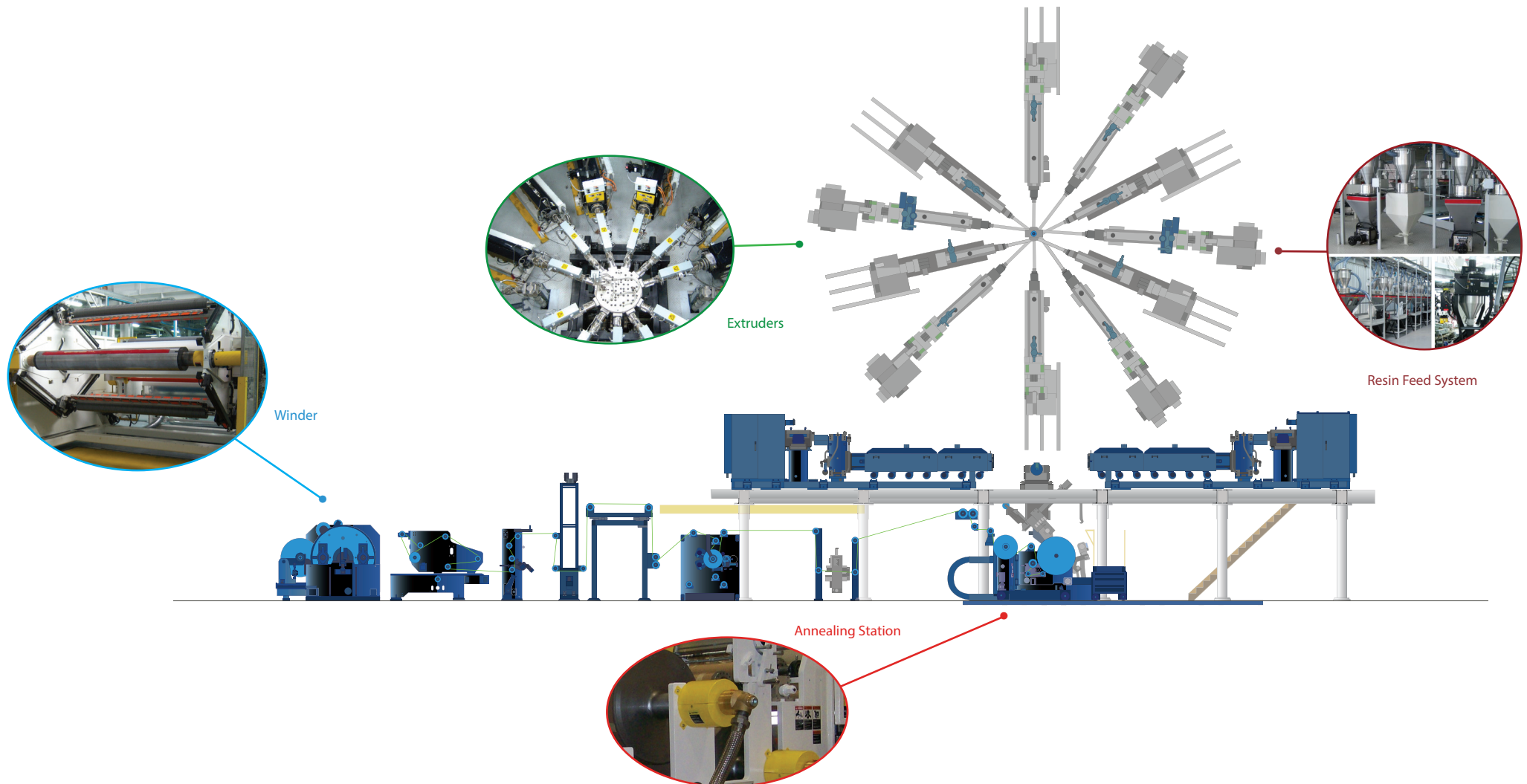


### Selected Features

- Center wind tension control for superior roll quality
- Optimum roll quality for multi-layer barrier film



# Technology **Cast Film Systems - High Barrier**







## Stationary knife



### Selected Features

- No fold back core start
- Minimize film waste
- Straight cut

## 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

## Ancillary equipment - resin feed system



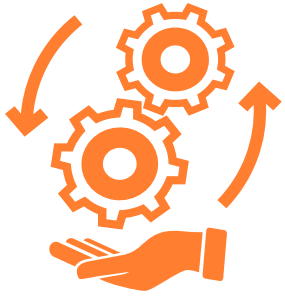
### Selected Features

- Design to minimize dusting
- Design for optimum output and flexibility









# 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



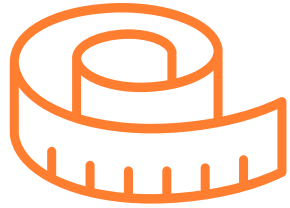
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Collaborative Partner for your Entire Line









# 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 cast 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 pilot facilities enable customers to test and prototype concepts, building a foundation of confidence.

## **Customization Is Key**

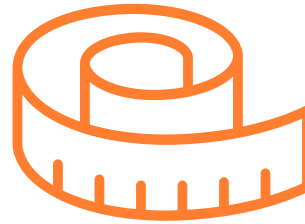
Major components of our cast lines are often tailored to address specific customer needs. This can be as simple as combining existing design elements in a unique way or developing a new solution to enhance existing capabilities.

## **Technology Leadership**

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





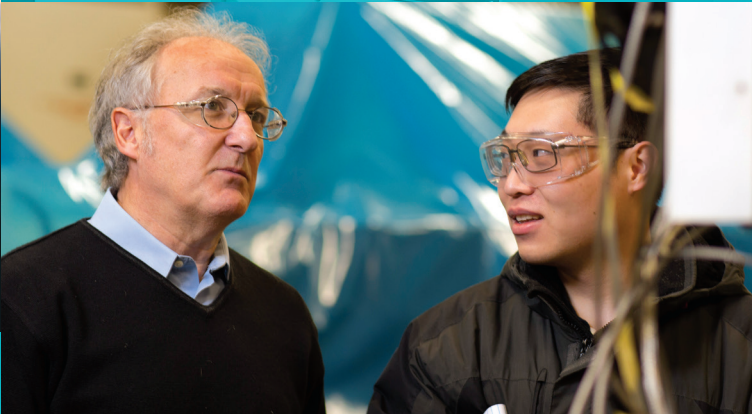


# Research and Technical Centers

## 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





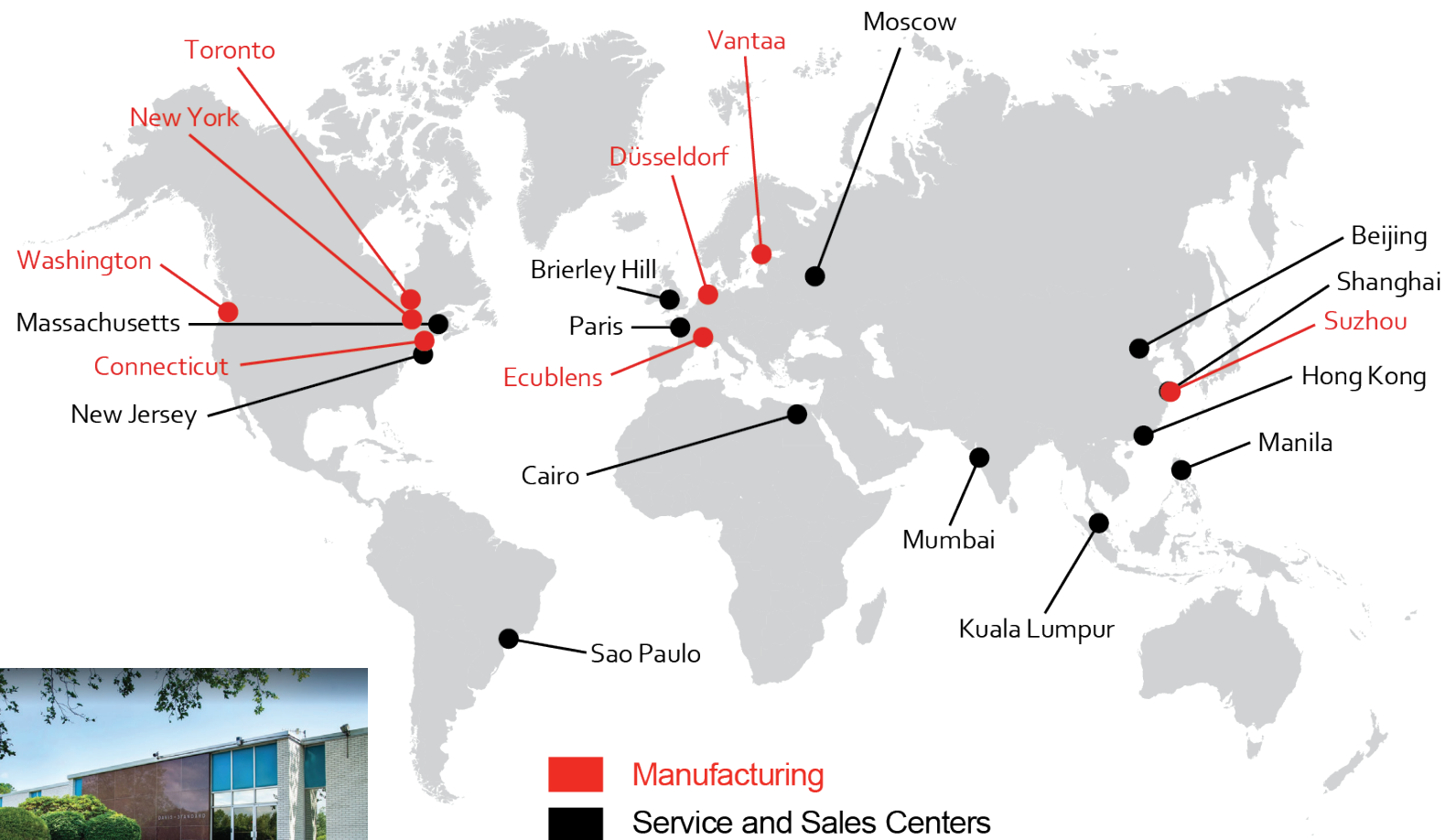




# Davis-Standard - A Global Company

Production Across Three Continents

- Quick Response Parts & Service



Pawcatuck, Connecticut, USA



Fulton, New York, USA



Suzhou, China



Erkrath/Düsseldorf, Germany

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## 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.



+1 315-564-4375  
[www.davis-standard.com](http://www.davis-standard.com)

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Where your ideas take shape.