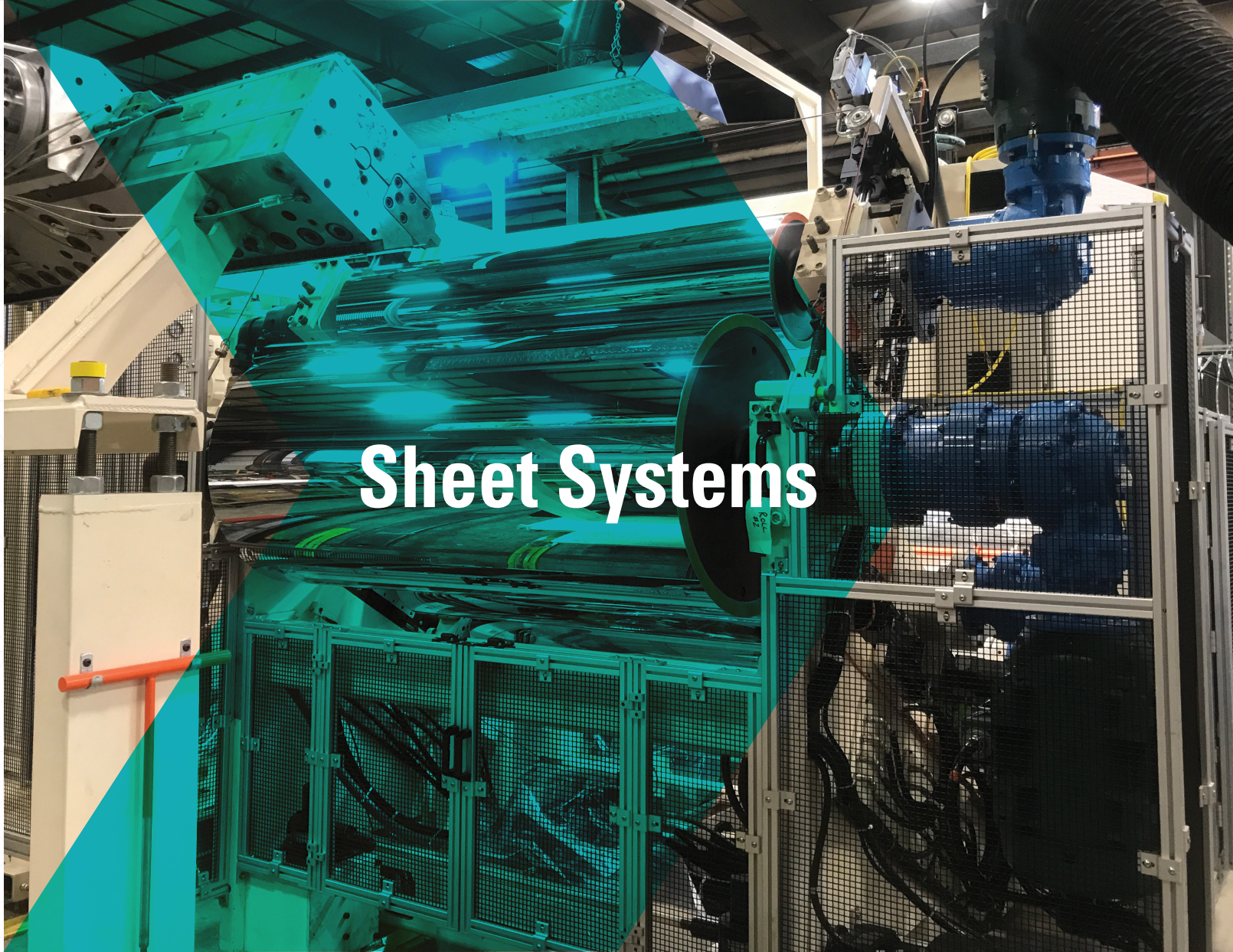


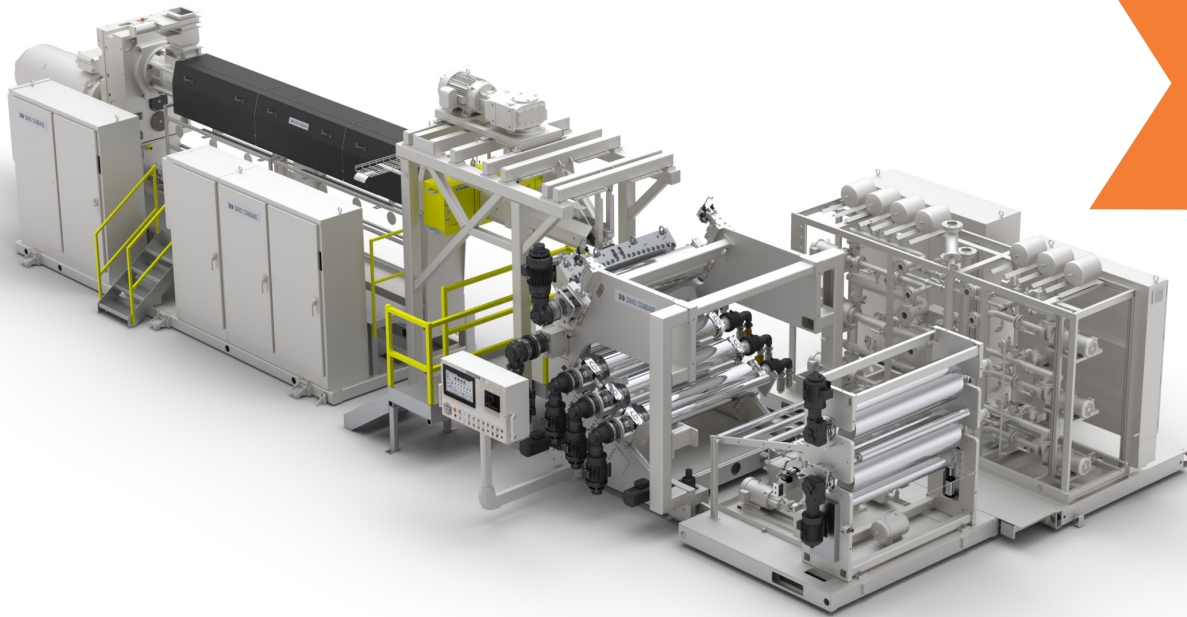


Where your ideas take shape.



Sheet Systems

XP Express®-AGT (Active Gravity Touch)



Example Line Layout with High Speed Extruder

XP Express[®]-AGT (Active Gravity Touch - Patent # US11173644B2, # US11167465B2)

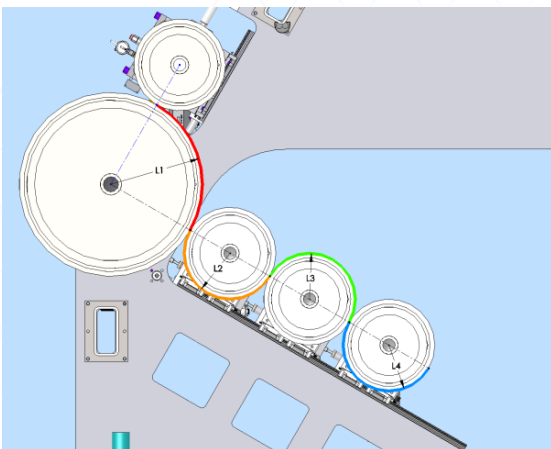
There's a new addition to Davis-Standard's roll stand portfolio that empowers you with even greater automation and process control – the XP Express[®]- AGT. With both sheet and cast extrusion capabilities, you can process the full range of sheet (nominal 8 to

60 mil) and cast (nominal <10 mil) applications. An inverted-down, multi-roll design offers multiple technical advantages. We can engineer widths and outputs based on your specifications. This roll stand is designed with your innovation in mind.



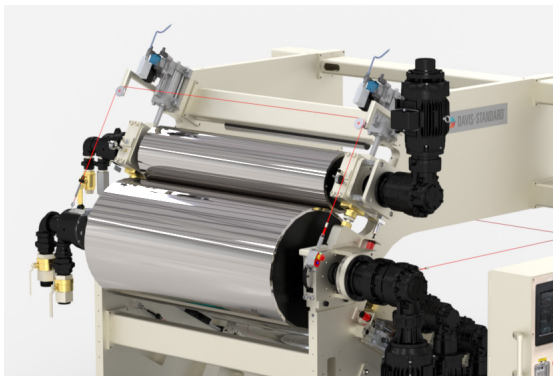
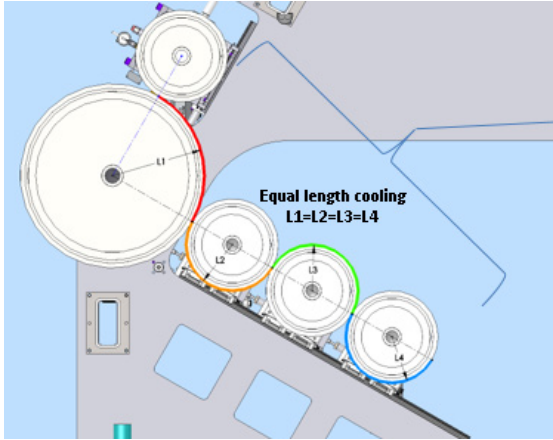
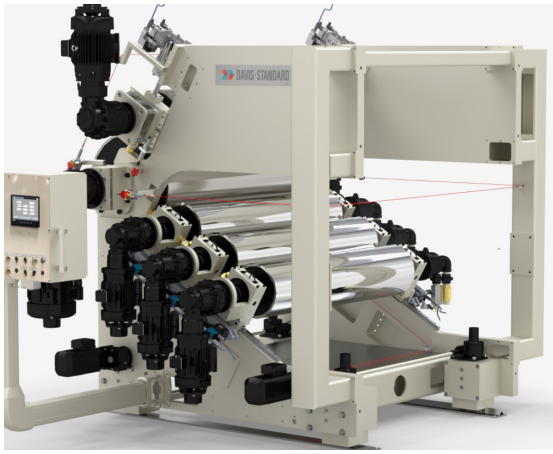
A. Improved die slot to primary nip management

- Configured for low melt strength resins
- Broader thin gauge sheet/film thickness range capability
- Angled die to nip cast advantage for low melt strength resins
- Reduces die lip drag & residual die lip build up



B. Improved handling from primary to secondary nip

- Improved double polishing capabilities
- 90 degree web wrap on primary roll facilitates warmer web introduction into second nip to create a 2nd bead in the 2nd nip



C. Improved web cooling & conditioning capabilities

- Multi nip roll capability improves polishing and heat transfer
- Automatic nip force and nip gap control via OCS
- High-performance heat transfer process section
- Precision four point Y-axis position control
- X - axis traverse position control
- Precision individual AC drives for independent speed control
- Equal length cooling decreases web cross section stress build up caused by non uniform cooling.
- Manual roll cross axis (skew) capability top roll for thin gauge sheet processing

D. Improved high performance haul-off

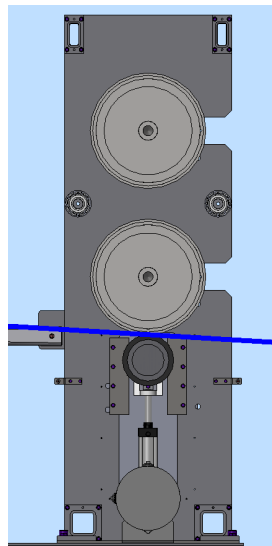
- Supplemental web cooling & conditioning capability

E. Improved operator line process control

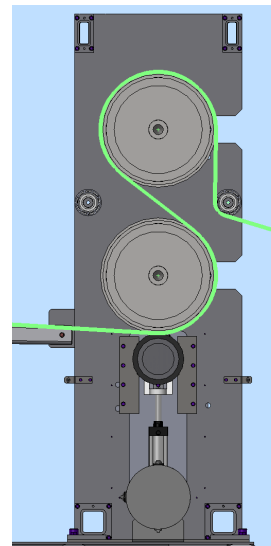
- Precision line drive control between process sections
- Automated nip force control, monitoring & recording
- Automated nip gap control, monitoring & recording.
- Semi-automated 4 point vertical & linear position motion control

F. Improved layout design

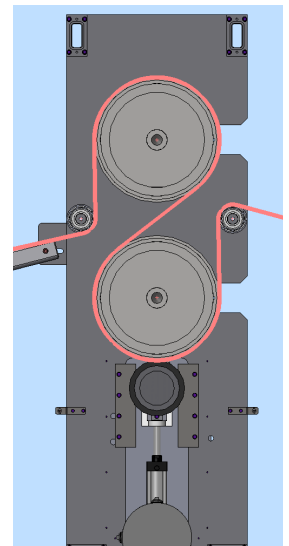
- Condensed footprint
- Ergonomic swing arm OCS



Straight thru



Over



Under

Improved high performance haul-off - optional web paths

- Supplemental web cooling & conditioning capability
- Two water cooled S-wrap haul-off heat transfer rolls, individually driven, reversible drive capability
- Actuated bottom neoprene covered nip roll, surface driven
- Three versatile thread arrangements based on process need



XP Express® -AGT Summary:

Improves

- Die to nip management
- Equal cooling both sides of sheet
- Sheet double polishing capability
- Sheet clarity
- Sheet haze reduction
- Control of web flatness
- Reduction of web stress induced from process
- Sheet heat transfer, increases web contact coefficient with cooling rolls.
- Web orientation control
- Web thickness control
- Floor space utilization
- Newly patented XP Express®- AGT model sizes - Patent # US11173644B2, # US11167465B2

Specifications

SPECIFICATION	XP EXPRESS®-AGT-I	XP EXPRESS®-AGT-II	XP EXPRESS®-AGT-III
Standard width	36-80 inches	36-80 inches	36-80 inches
Roll diameters inches	12/24/12/12/12	15/30/15/15/15	18/36/18/18/18
Thin gauge range	10-40 mil	10-40 mil	10-40 mil
Heavy gauge range	up to 0.250	up to 0.250	up to 0.250
Standard roll TIR	0.001 inch / 0.0254 mm	0.001 inch / 0.0254 mm	0.001 inch / 0.0254 mm
Precision roll TIR	0.0002 inch / 0.005 mm	0.0002 inch / 0.005 mm	0.0002 inch / 0.005 mm
Roll Actuation	Hydraulic	Hydraulic	Hydraulic
Primary nip geometry	AGT downstack	AGT downstack	AGT downstack
Standard nip force load Rating	600 pli primary • 300 pli secondary	600 pli primary • 300 pli secondary	600 pli primary • 300 pli secondary
Roll journal type	Taper	Taper	Taper
Roll chrome standard or built to order	0.5-1 ra	0.5-1 ra	0.5-1 ra
Roll gap/force control	Active hands free	Active hands free	Active hands free
Roll skewing-standard	Primary nip roll	Primary nip roll	Primary nip roll
Haul-off	S-nip	S-nip	S-nip
Roll drive type	AC or Servo individual drive	AC or Servo individual drive	AC or Servo individual drive
Nip camera monitor	Optional	Optional	Optional
Air knife casting	Optional	Optional	Optional
Laminating	Optional	Optional	Optional
Power supply	460v/3p/60hz 380v/3p/50hz	460v/3p/60hz 380v/3p/50hz	460v/3p/60hz 380v/3p/50hz

NOTE: Additional machine sizes, capacities and capabilities are available and built to order.

This Roll Stand XP Express® – Active Gravity Touch (AGT) is not offered and sold to customers in and from the Federal Republic of Germany at any time in the past and in the future. - Das Walzengerüst XP Express® – Active Gravity Touch (AGT) wird zu keinem Zeitpunkt, weder in der Vergangenheit noch in der Zukunft, einem Kunden in und aus der Bundesrepublik Deutschland angeboten.