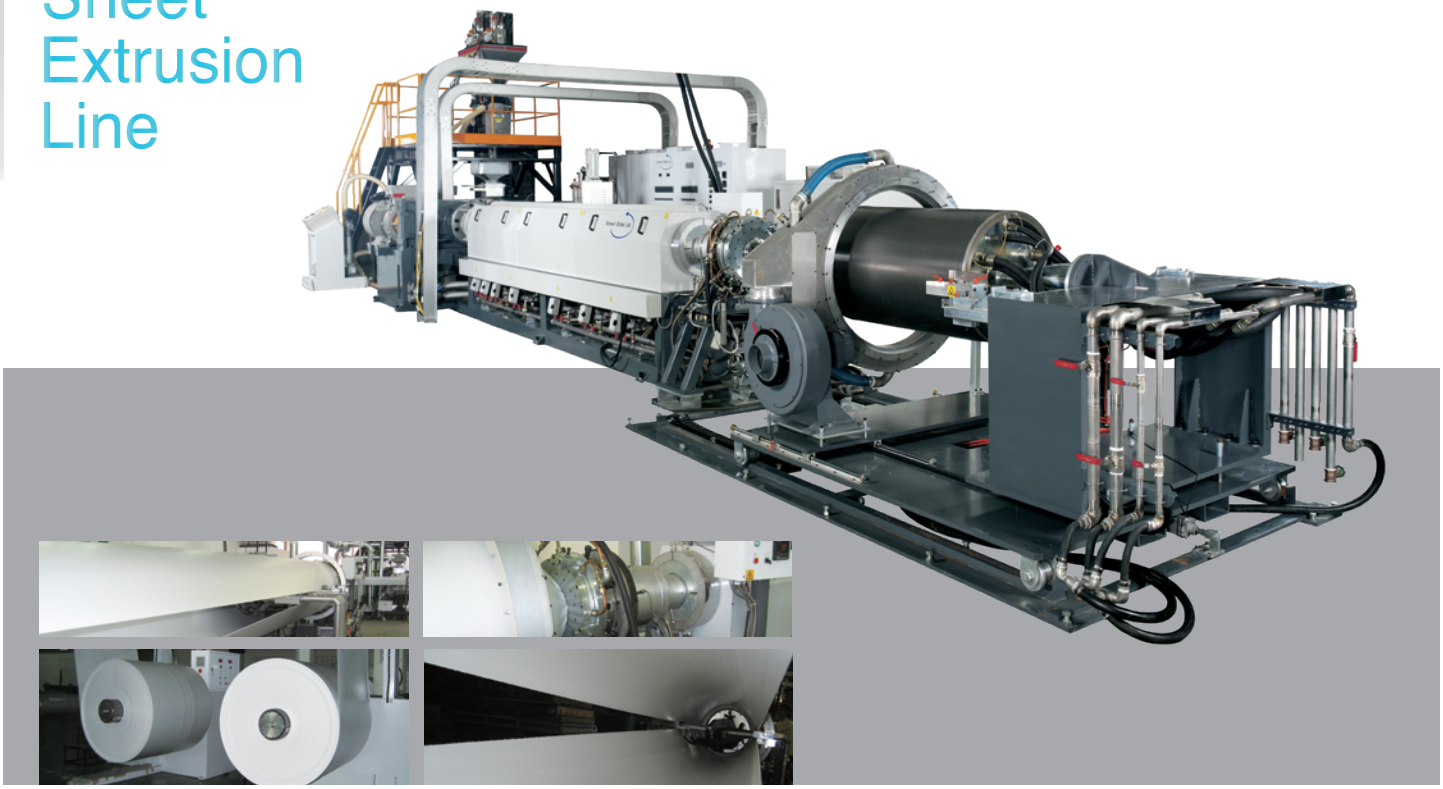
Sunwell Global

Foam Sheet Extrusion Line



Foam Sheet Extrusion Line

Sunwell Global is a market leader in the supply of foam extrusion lines for food and protective packaging applications. Our tandem extrusion lines are able to process EPS, EPE, and EPP at outputs from 150kg/hr to 1000kg/hr.

Raw materials are automatically loaded and blended before being fed into the primary extruder to produce a homogeneous melt. Hydrocarbon or CO_2 gases are precisely metered using triple head ATEX compliant, diaphragm pumps with mass flow measurement to ensure a consistent foam density and quality.

The secondary extruder cools the melt using a high mixing, low shear screw with a two stage seal design to ensure no leakage through the rear. Barrel water cooling is controlled through motorized valves to minimize temperature variation particularly important when producing absorbent foam.

Our oil temperature controlled annular dies have hand wheel adjustment and digital display of die gap to assist with process control and product repeatability. Air rings around die and cooling can improve surface finish and output.

Sunwell has a range of haul off and winding technology with manual or fully automatic cut and reel change capability all with accurate programmable tension control.

All foam lines have the option of discrete or PLC touch screen control.

PARTNERS FOR
MAXIMUM PROFITABILITY

Foam Sheet Extrusion Line

MODEL	FEX90120	FEX100130	FEX120150	FEX150200
Material	EPS; EPE; EPP; EPET; EPLA	EPS; EPE; EPP; EPET; EPLA	EPS; EPE; EPP; EPET; EPLA	EPS; EPE; EPP; EPET; EPLA
Thickness (mm)	0.5~5	0.5~5	1~6	1~6
Width (mm)	700~2,000	1,000~2,400	1,500~3,000	1,500~3,000
Max. Throughput (kg/h)	EPS: 300 EPE: 220 EPP: 240 EPET: 350 EPLA: 300	EPS: 450 EPE: 350 EPP: 380 EPET: 500 EPLA: 450	EPS: 650 EPE: 480 EPP: 530 EPET: 600 EPLA: 600	EPS: 900 EPE: 700 EPP: 750 EPET: 750 EPLA: 750
Density (kg/M3)	EPS: 35~250 EPE: 17~40 EPP: 40~250 EPET: 90~450 EPLA: 90~400	EPS: 35~250 EPE: 17~40 EPP: 40~250 EPET: 90~450 EPLA: 90~400	EPS: 35~250 EPE: 17~40 EPP: 40~250 EPET: 90~450 EPLA: 90~400	EPS: 35~250 EPE: 17~40 EPP: 40~250 EPET: 90~450 EPLA: 90~400
Extruder Type	Tandem	Tandem	Tandem	Tandem
Screw dia. (mm)	90 and 120	100 and 130	120 and 150	150 and 200
L/D	34/1 and 32/1	34/1 and 32/1	34/1 and 32/1	34/1 and 32/1
Blowing agent	LEWA Triple Diaphragm Pump - Hydrocarbon	LEWA Triple Diaphragm Pump - Hydrocarbon	LEWA Triple Diaphragm Pump - Hydrocarbon	LEWA Triple Diaphragm Pump - Hydrocarbon
Drive System	SIEMENS AC drive with FLENDER gearbox	SIEMENS AC drive with FLENDER gearbox	SIEMENS AC drive with FLENDER gearbox	SIEMENS AC drive with FLENDER gearbox
Barrel material	Bimetallic	Bimetallic	Bimetallic	Bimetallic
Cooling system	Air cool for primary; Proportional motorized water cool for secondary	Air cool for primary; Proportional motorized water cool for secondary	Air cool for primary; Proportional motorized water cool for secondary	Air cool for primary; Proportional motorized water cool for secondary
Winder	Programmable Tension control; 300mm core	Programmable Tension control; 300mm core	Programmable Tension control; 300mm core	Programmable Tension control; 300mm core
Floor Space	2,000mm winding dia. 25L x 6W x 5H M	2,000mm winding dia. 33L x 6W x 5H M	2,000mm winding dia. 35L x 6W x 5H M	2,000mm winding dia. 37L x 6W x 5H M
Machine Weight	18,000 kg	22,000 kg	28,000 kg	34,000 kg

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