

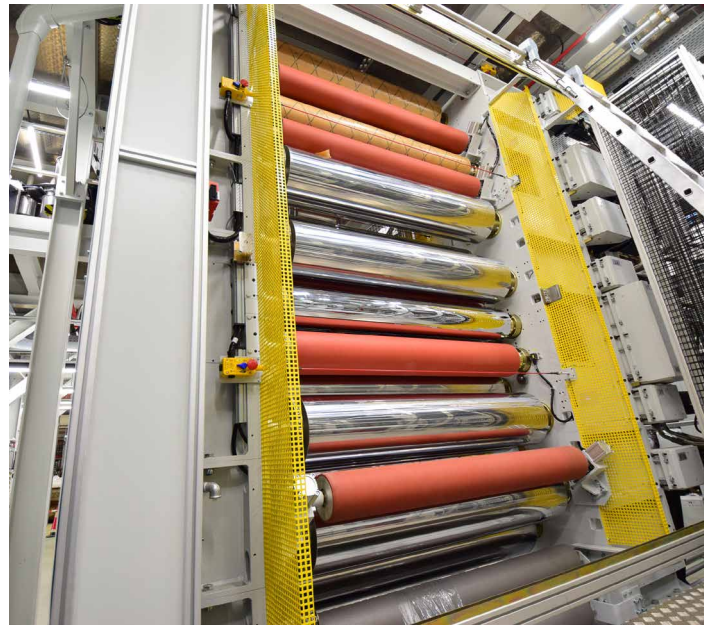
Multifunctional SML cast film line at ExxonMobil Shanghai Technology Center

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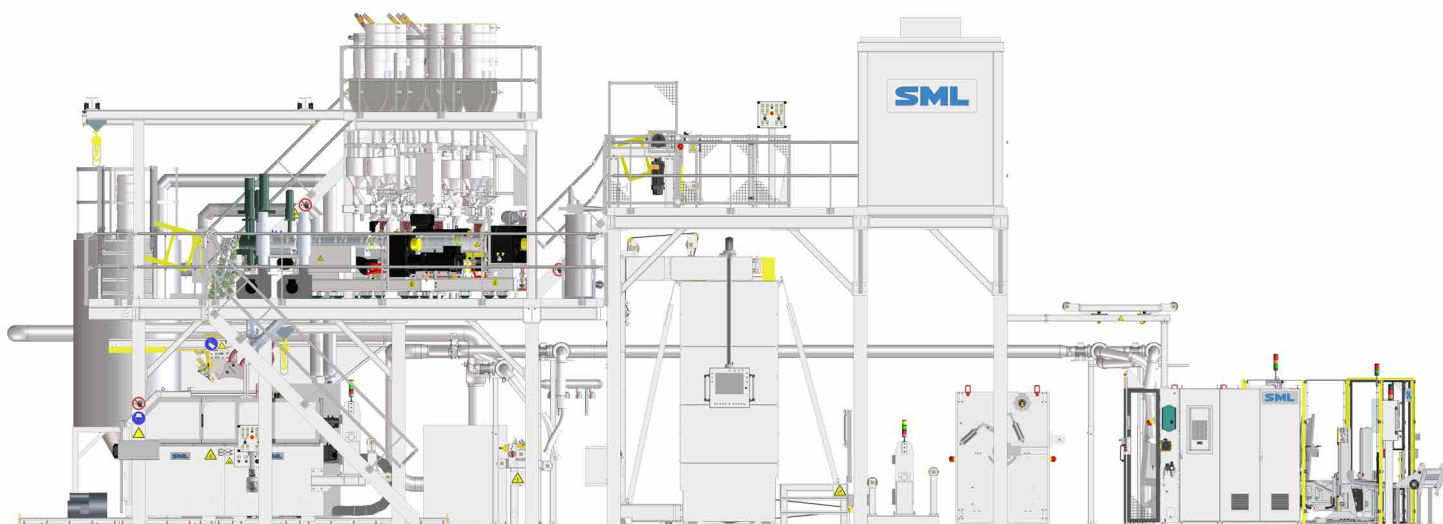


Multifunctional cast film line with integrated MDO (machine direction orientation unit):

- 7-layer cast film line with 5 extruders
- MDO unit for MOPP/MOPE and breathable films
- Embossing unit for meltembossed films
- Unwinder for roll-to-roll MDO operation
- Winder for small diameter mother rolls and part bobbins



Products	Stretch film, CPP film, CPE film, protective film, meltembossed film, elastic film Mono-oriented breathable film, MOPP/MOPE film, pre-stretched film
Film structure	7-layer film: A / B / C / D / C / B / E
Film thickness range	8 - 45 μm for stretch wrap film 15 - 100 μm for CPP and CPE film 10 - 40 μm for hygiene film 15 - 70 μm for elastic film
Final film width	1000 - 1200 mm for cast film, depending on line speed and film thickness 750 - 850 mm for mono-oriented breathable films 800 - 900 mm for mono-oriented PP/PE films
Max. mechan. line speed	650 m/min





Extrusion:

- Dry air drying system for filled compounds
- Gravimetric dosing system with screw feeders with 4 components for each extruder
- Extruder configuration A / B / C / D / C / B / E
A: 60/33, B: 75/33, C: 90/33, D: 60/33, E: 60/33
- Hydraulic screen changers
- 7-layer feedblock with variable geometry
- Automatic flat die 1500 mm width including die splitting system
- Double chamber vacuum box

Take off and cooling unit:

- Roll width 1700 mm
- Primary chill roll diameter 1000 mm, for cast film exchangeable to embossed chill roll with diameter 800 mm for meltembossed films
- Silicone embossing roll with 2-layer silicone with diameter 700 mm and 2 water cooled support rolls for dry embossing process
- Secondary chill roll diameter 400 mm
- Electrostatic and pneumatic edge pinning system
- Airknife, 3-axis adjustable

MDO unit:

- 3 preheating rolls, 4 stretching rolls for first gap (mechanically adjustable), 3 stabilizing rolls, 4 stretching rolls for second gap (fix gap), 3 annealing rolls, 2 cooling rolls
- Roll temperatures up to 165°C
- Stretching ratio up to 1:10
- Single unwinding unit for offline roll-to-roll operation with MDO

Thickness measuring unit:

- First frame for non-oriented products directly on cooling unit, X-ray sensor
- Second frame for oriented products after MDO, X-ray sensor

Corona treatment:

- One side treatment station
- 20kW generator

Edge trim handling:

- Edge cutting blades in front of MDO and directly on winder
- Suction system into big-bag station

Winder:

- W4000-2S stretch film winder for max. 1500 mm winding width
- Part bobbin operation possible
- 3-inch winding shafts
- Automatic core feeding for 500 mm cores
- Max. mechanical roll diameter 400 mm



Engineered to perform

SML Maschinengesellschaft mbH with its head office in Redlham, Austria is specialised in building high-performance extrusion equipment. Based on 40 years of experience SML has made itself a name in the international market by tailoring extrusion lines to customer requirements. Optimal product and line concepts are designed and developed together with our customers, utilising the latest findings in plant engineering and extrusion technology.

SML booth at Chinaplas 2019: 9.2A61
For more information: www.sml.at

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- Exceed™ XP – for when eXtreme Performance matters, with step-out mechanical performance and excellent processability
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