

Sulzer EPS foam extrusion technology

Sulzer supplies complete EPS foam extrusion lines in a package comprised of a Basic Engineering Package (BEP) and the necessary Key Equipment (KE) together with the control system and a close support during site activities by an experienced commissioning engineer. Moreover, customers benefit from Sulzer global presence in more than 100 different sites around the world, well-earned excellence reputation and the Swiss quality brand backed-up by almost 200 years of presence in diverse industry fields.



Wide range of applications

- Transport – such as shock absorbing and impact resistant packaging for electronic protection
- Storage boxes for food packaging and transport
- Various thermal insulation, especially on buildings where low conductivity materials reduce the energy consumption for heating/cooling.
- Sport appliance such as helmets.
- Civil engineering – fill material for highway construction.

The developed standard EPS foam line packages allow for price competitive track-proven solutions. However, under request, the engineering team applies the accumulated know-how within the years and projects to customize the foam extrusion lines to meet any specific requirement such as product quality. Sulzer state-of-the-art pilot plant facilities allows to gather the necessary process information for the development of new recipes and scale-up the equipment to the desirable industrial size while backing up the system with process guarantees.

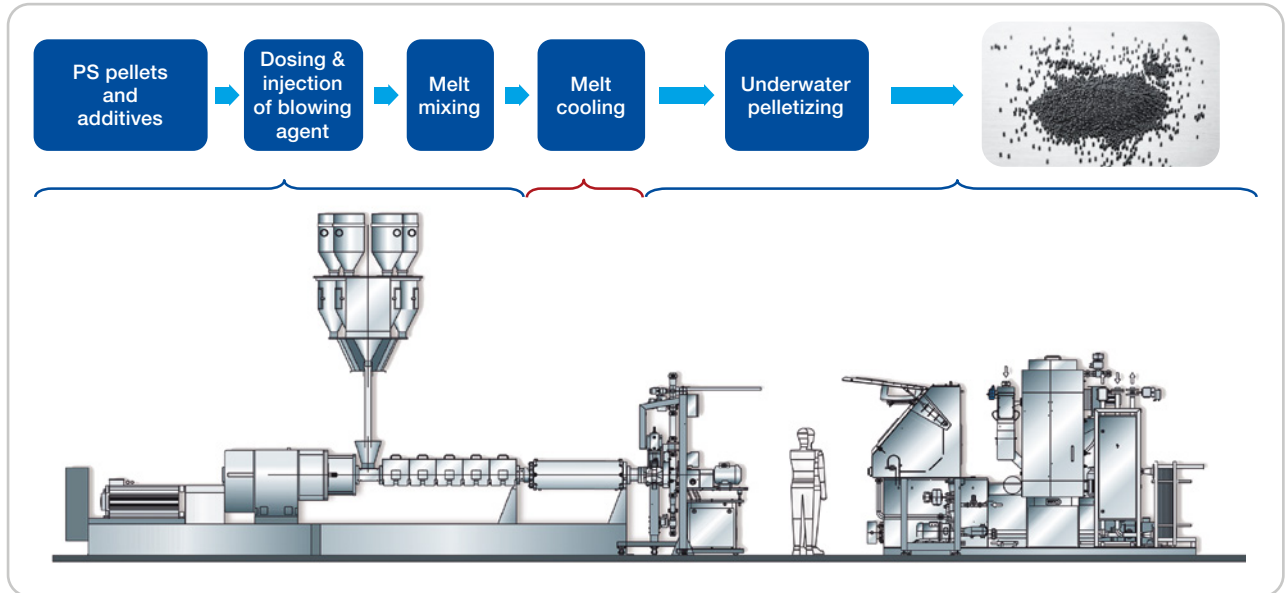
EPS – Excellent product characteristics

- Production of a wide range of EPS qualities with a narrow bead size distribution, such as white, colored, or pigmented.
- High quality low lambda, flame retarded (FR) insulation grades consistently achievable
- Easily adaptable to any intermediary bead size. Flexibility to adapt to changing market demands
- High added value due to superior EPS grades

Sulzer unique technology for the productions EPS beads and more

The combination of a high-quality dosing system, a tailor-made twin screw extruder and an accurate direct injection of blowing agents into the PS melt together with other components of the recipe ensures specific characteristics of the product and flexibility for a huge field of applications for the EPS industry using virgin and recycling material.

Sulzer's unique melt cooling technology and an individually designed underwater pelletizing system completes the extrusion foam process for customized beads production. Moreover, Sulzer EPS foam extrusion lines can be designed for handling different polymers such as PP and/or PLA allowing clients to diversify their product portfolio with small equipment adjustments.



Bead characteristics of extruded EPS and foam extrusion line capacities

Blowing agent	Mixture n-pentane / iso-pentane
Bead size range [mm]	0.9 – 1.5 (insulation) 0.6 – 1.0 (packaging) 0.3 – 0.5 (cup)
Production capacity [kg/h]	50 - 3000
Maximum recycled content in PS feed	100%

Sulzer – your partner for customized solutions in foam extrusion technology



Customized EPS beads by extrusion

How can we help you?
Contact us today to find your best solution.

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