

Find Out Your Solution



Walk The Talk

Polyolefin Pelletizing
Jumbo Extruder
Underwater Pelletizer

Polymer Compounding
Color/filler and functional MB
Engineering plastic reinforcement
TPE/TPR/TPV
Cable compounding

Under-water Pelletizing System
Huge capacity: 1–50 tons/hr
Micro-beads
Elastomer and hot melt pelletizing
Foam beads: EPS/EPLA/XPET

Polymer Foam Extrusion
CO2 foam XPS board
Graphite EPS beads pelletizing
PET Foam Core
PLA Foam Beads pelletizing
XPE Foam Sheet

Direct Extrusion
EVA/POE solar film
UHMWPE battery separator film
BOPET/BOPA/BOPP film extrusion
Steel pipe coating

PET Recycling & Extrusion
Bottle flakes recycling (BTB)
PET fiber/film recycling
Undried PET sheet extrusion
PSF/POY direct extrusion

> 85%



Useon Technology Limited

Factory address: 16 Yuanqi Rd
Jurong, Zhenjiang, Jiangsu, China.
Post Code: 212400
Mobile: 0086 139 5186 5928
Tel: 0086 511 8077 9688
Fax: 0086 511 8077 9673
Email: info@useon.com
www.useon.com

- Applications
- Features
- Efficiency Logic
- Business Value



useon-EC En 2025-04 / 01

> 85% **SAT-T Triple-Screw Extrusion System**
High-Filler Compounding Solutions



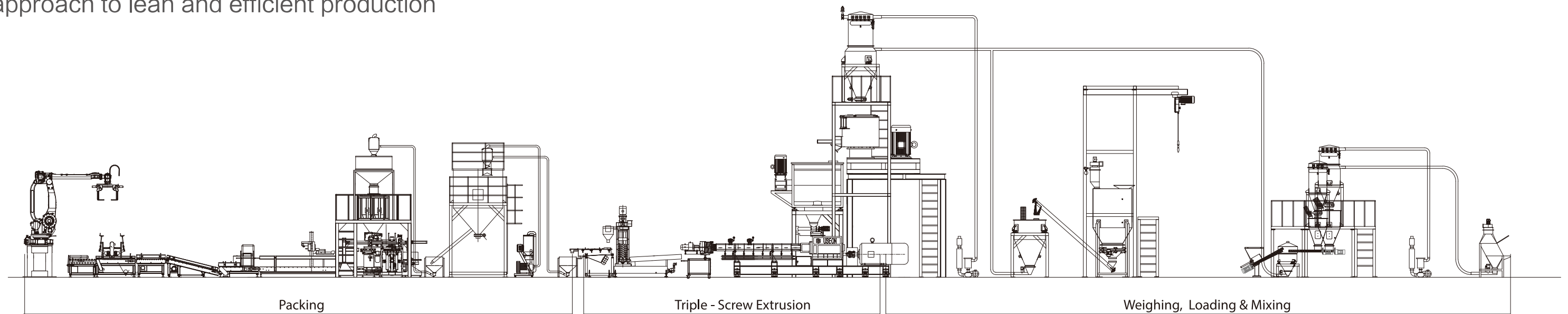
A Scalable Production Pathway for High-Filler Applications

> 85% High-Filler Compounding USEON SAT-T Triple-Screw Extrusion System

Engineered for 85%+ filler systems, delivering a structured approach to lean and efficient production

Applications

- High-filler masterbatch: CaCO₃, talc, barium sulfate and similar high-loading systems
- High-dispersion applications: Carbon black, TiO₂ and other challenging functional masterbatches
- Circular economy: High-filler compounding of PCR/PIR materials to enhance recycled material value



Key Challenges

Challenges in Achieving >85% High-Filler Production

- Feeding limitations: High powder content leads to bridging, slippage and feeding interruptions
- Process instability: Fluctuations in torque, current and die pressure
- Narrow processing window: Increased sensitivity due to limited melt flexibility
- Output limitations: High-load operation restricts speed and capacity scaling



Solution Approach

Stable, continuous operation through integrated system design

>85% High-Filler System Configuration

- SAT-T triple-screw main extruder
- High-precision powder dosing and feeding system
- Continuous mixing and stabilized feeding unit
- Water-ring pelletizing system
- Integrated automation and process monitoring system

Core Capabilities

- Capable of processing 85%+ filler systems
- Stable continuous operation with reduced fluctuations and downtime
- Compact system layout to optimize plant footprint and capital efficiency

TECHNICAL DATA

Type	Power kW	* Throughput Range kg/h
SAT-T35	30	50-200
SAT-T52	110	500-800
SAT-T65	160	1200-1500
SAT-T75	250	1800-2200
SAT-T95	400	2600-3600

* Capacity data is based on typical test conditions; actual output may vary with materials, formulations, and process conditions.

| Optimizing throughput, efficiency and stability redefines production boundaries.