

# LABORATORY PARALLEL TWIN-SCREW EXTRUDER

QualiPTSE-21

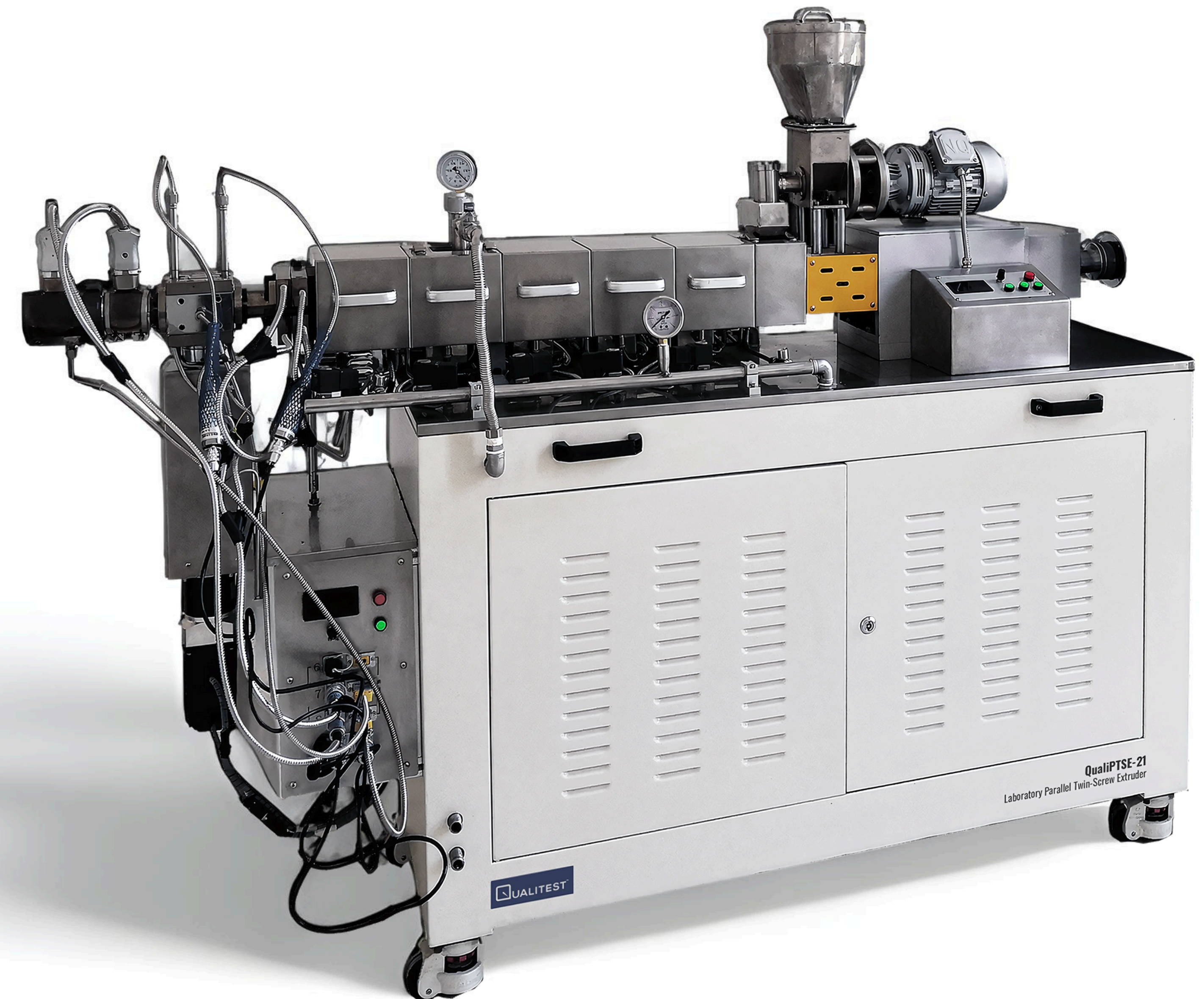


# Laboratory Parallel Twin-Screw Extruder

## QualiPTSE-21

QualiPTSE-21 Parallel Twin-Screw Extruder is **an advanced laboratory-scale extrusion system** designed for **polymer compounding, formulation development, and small-batch production**. With its modular design, precise control, and excellent scalability, it is ideal for research institutions, polymer R&D labs, and quality control departments.

This high-performance twin-screw extruder is widely used to study the effects of various fillers, additives, and processing conditions on the mechanical strength, heat resistance, and flame retardancy of plastics. It also supports the development of custom polymer blends and the testing of new resin formulations.





# KEY APPLICATIONS

- Plastic compounding and polymer modification
- Reinforcement and additive dispersion
- Flame-retardant and high-heat polymer development
- Experimental resin formulation and small-batch production
- Academic research and pilot testing

# KEY ADVANTAGES

- Accurate control of process variables for reproducible results
- Ideal for both formulation trials and pilot-scale production
- Easy-to-adjust parameters for different polymer systems
- High-performance and energy-efficient heating system
- Robust safety and control features for reliable operation

# TECHNICAL SPECIFICATIONS

SPECIFICATION	DETAILS
Screw Diameter	20 mm
Screw L/D Ratio	40:1
Screw Speed Range	1 – 200 rpm
Feeding Method	Screw metering feeding
Heating Method	6-zone electric heating
Maximum Temperature	350°C (optional: 500°C)
Temperature Control System	RKC temperature controller
Temperature Accuracy	±0.5°C
Heating Power	6.4 kW
Temperature Sensors	Type K thermocouples
Output Capacity	1 – 15 kg/h
Pressure Range	0 – 100 MPa
Exhaust Method	Vacuum exhaust
Cooling Method	Compressed air cooling





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