

Thermo Scientific Pharma Twin-screw Extruder Selection Guide

Quickly find the right Pharma Twin-screw Extruder to fit your formulation development and production needs.



Thermo Scientific™ Twin-screw Extruder	Pharma <i>mini</i> HME	Pharma 11	Pharma 16	Pharma 24	Pharma 24 TSG
Recommended for	Feasibility	Research	Research / Pilot	Manufacturing	Manufacturing
Typical throughput HME*	3 g batch or 100 g/h	20 g/h - 2.5 kg/h	0.5 kg/h - 10 kg/h	1 kg/h - 30 kg/h	n.a.
Typical throughput TSG*	n.a.	up to 3 kg/h	up to 20 kg/h	up to 80 kg/h	up to 80 kg/h
Dimensions (LxWxH)	58 x 37 x 34 cm	83 x 48 x 41 cm	210 x 76 x 176 cm	210 x 85 x 173 cm	195 x 32 x 42 cm
Downstream options	<ul style="list-style-type: none"> • Take-off belt • Laser based calibration • Cutting device 	<ul style="list-style-type: none"> • Conveyor belt • Pelletizer • Sheet take-off 	<ul style="list-style-type: none"> • Conveyor belt • Pelletizer • Chill-roll • Face-cut pelletizer 	<ul style="list-style-type: none"> • Conveyor belt • Pelletizer • Chill-roll • Face-cut pelletizer 	For line integration
Screw design	conical, co-counter rotating	Parallel, co-rotating	Parallel, co-rotating	Parallel, co-rotating	Parallel, co-rotating
Maximum torque	5 Nm / shaft	6 Nm / shaft	18 Nm / shaft	52.5 Nm / shaft	18 Nm / shaft

* Actual throughput dependent on formulation.

Have questions? Request to talk with a pharma extruder expert by visiting thermofisher.com/extruders