

Extrutech ETIM-S Series

Servo Injection Molding Machines

High Repeatability | Production-Ready Build

MODELS

ETIM - S110

ETIM - S150

ETIM - S180

ETIM - S230

ETIM - S280



AVAILABLE CONFIGURATIONS

GENERAL PURPOSE (ETIM-S SERIES)

A powerful, all-round injection molding machine designed for stable cycles, clean part finish, & dependable production performance.

PVC/CPVC FITTINGS (ETIM-S PVC/CPVC)

Optimized for demanding fittings production with robust clamping force, controlled plasticizing, and steady processing across long runs.

PET PREFORM (ETIM-S PET)

Built for repeatable preform molding with controlled injection behaviour, consistent melt quality, & production-ready reliability.

Wide range of injection unit combinations available

MACHINE HIGHLIGHTS

FEA-optimized rigid clamping for stronger molding performance

High platen parallelism for better mold life & tighter accuracy

Twin-cylinder injection unit for stable pressure & repeatability

High plasticizing capacity for faster cycles and better melt quality

Servo system for major energy savings and smooth operation

Maintenance-friendly layout designed for uptime & easy access

[From lab trials to production-ready moulding parameters.]

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APPLICATIONS

- ♦ High-output injection molding for general plastic components
- ♦ PVC / CPVC fittings manufacturing
- ♦ PET preform production
- ♦ Process validation with mold trials
- ♦ Multi-material processing with A/B/C screw configurations

TECHNICAL SPECIFICATIONS

TONNAGE	PLATEN SIZE (mm)	TIE BAR SPACING (mm)	MAX DAYLIGHT (mm)
110T	690 × 645	480 × 435	900
150T	780 × 740	550 × 510	1060
180T	810 × 770	575 × 525	1100
230T	920 × 820	660 × 560	1260
280T	990 × 940	710 × 660	1400

WIDE RANGE OF INJECTION UNIT COMBINATIONS ARE AVAILABLE

FEATURE HIGHLIGHTS

CLAMP PERFORMANCE & MOLD SAFETY

- ♦ FEA-optimized clamp platens for stronger rigidity
- ♦ Optimum platen parallelism for cleaner molding accuracy
- ♦ Wider moving platen support for heavy molds
- ♦ Auto lubrication for smoother running & lower wear
- ♦ Auto mold height adjustment for faster mold changeovers
- ♦ Clamp position transducer for precise motion monitoring
- ♦ Rear door handle for operator convenience
- ♦ Jam bar safety (Optional)
- ♦ T-slot platens (Optional)
- ♦ Extended daylight (Optional)

INJECTION UNIT POWER & MELT QUALITY

- ♦ Twin-cylinder injection system for stable, repeatable injection pressure
- ♦ High plasticizing performance for faster cycles & uniform melt
- ♦ Special screw designs available for application-specific output
- ♦ Wider choice of injection units with A/B/C screw options
- ♦ Digital screw RPM setting with digital readout
- ♦ Nozzle shut-off valve (Optional)
- ♦ Bi-metallic screw & barrel (Optional)
- ♦ Proportional back pressure control for better mixing and consistency

EFFICIENCY, UPTIME & OPERATOR CONVENIENCE

- ♦ Energy-efficient servo system for major power savings
- ♦ Service-friendly hydraulic layout built for easy maintenance
- ♦ Low level oil alarm for machine protection
- ♦ Hydraulic cylinders with reputed make seals
- ♦ Levelling pads for stable installation
- ♦ Y-strainer in heat exchanger inlet
- ♦ Gauge port on all major functions
- ♦ Dome lamp (3-tier) for shop-floor visibility

Lab Model Injection Molding



Prototype Faster.
Validate Confidently.
Scale with Data.

WHAT YOU GAIN

- ♦ Production-relevant molding in a lab format that reduces scale-up risk
- ♦ Faster prototyping & controlled sampling for approvals & testing
- ♦ Repeatable process conditions for reliable, comparable trial data
- ♦ Flexible screw options to match material type and part size requirements
- ♦ Strong clamping performance with stable mold alignment and ejection capability
- ♦ Efficient heating & drive power sized for consistent melt preparation
- ♦ Lower development cost through small-batch trials before full-scale production

MACHINE HIGHLIGHT

- ♦ Two clamping options: 40T and 60T for broader mold range
- ♦ Multiple injection unit configurations to match shot size and material behaviour
- ♦ Stable, repeatable cycles to generate dependable, comparable trial data
- ♦ Research-focused accessibility for setup, changeover, and trials
- ♦ Built for daily lab use with robust industrial drive and heating systems

[From lab trials to production-ready molding parameters.]

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APPLICATIONS

- ♦ Material evaluation and trial molding (PP, PE, PS and engineering plastics as applicable)
- ♦ Additive/masterbatch validation through part performance comparison
- ♦ Prototype part development for customer samples and internal testing
- ♦ Process optimization trials (pressure, speed, temperature, cycle consistency)
- ♦ Academic and industrial R&D labs

TECHNICAL SPECIFICATIONS

CLAMPING UNIT		40T			60T		
Clamping Force	ton	40			60		
Clamp Stroke	mm	350			350		
Mold height min.	mm	200			200		
Daylight	mm	550			550		
Distance between Tie-rods	HxV	270x270			320x320		
Platen size	HxV	450x450			450x450		
Ejector force	ton	2.5			2.5		
Ejector Stroke	mm	125			125		
Injection unit		100 IU			180 IU		
Screw Dia		A	B	C	A	B	C
	mm	20	25	30	25	30	35
L/D		25	20	16.7	25	20	16.7
Screw Stroke	mm	100			120		
Stroke Vol.	cc	31	49	71	59	85	115
Shot weight (PS)	gms	30	46	67	56	80	109
Injection Pressure	bar	2516	1932	1342	2430	2025	1488
Injection Rate	cc/sec	35	54	78	48	69	94
Screw speed	rpm	380			280		
Screw Torque	Nm	213	255	255	225	270	270
Other							
Drive Motor	kW	7.5			10		
Heating Capacity	kW	4.5			6		
Weight (approx.)	kg	2100			2300		
Oil Tank Capacity	litres	140			180		