

Toyo Seiki Seisaku-sho, Ltd. 5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan

## No. 675 Single-screw Extruder Model ER-1

Stand-alone laboratory extruder



## **APPLICATION**

The **Extruder ER-1** is stand-alone type single-screw (Ø30mm) laboratory extruder. Various kinds of die heads and film take-off devices are available as optional.

## **■**SPECIFICATIONS

Model	ER-1		
Screw diameter	30mm		
Screw L/D	28		
Screw type	Full flight (CR:3.0)		
Throughput	8kg/h		
Max. torque	700N.m		
Drive power	3.7kW		
Speed	10 to 100rpm		
Max. temperature	350°C		
Temperature control	6 channels (9 channels: Optional)		
Heating	C1, C2, C3, C4, CH		
Cooling	■C1, C2, C3, C4 (Air cooling)		
	■ Under the hopper (Water cooling)		
Hopper	10L		
Pressure sensor port	1		
Vent port	N/A (Non-vent type)		
Operation panel	■ Screw rotation control knob		
	■ Resin pressure display		
	■ Motor torque display		
	■ Resin temperature display		
	■ Emergency stop switch		
	■ Emergency buzzer		
Power requirement	Three-phase, AC200V, 50Hz or 60Hz, 34.6kVA		
Compressed air			
requirement			
Water requirement	Approx. 10L/min.		
Dimensions	W940 x D1400 x H1490mm		
Weight	Approx. 520kg		

**■**Options (Die Heads)

Name	Model	Main spec.	Remarks	Power	Photo	
				requirement		
Strand die	ST1	1 string type, ø1.5, 2, 3, 4, 5, 6, 2.095mm 3 string type, ø3mm	For extruding rod, filament	Single-phase, AC100V, 4A		
T die	T25F	W=25, t=0.5~1.5 (Fish tail type)	For extruding sheet & film	Single-phase, AC100V, 4A		
	T60F	W=60, t=0.5~1.5 (Fish tail type)		Single-phase, AC100V, 7A		
	T120C	W=120, t=0~1.5 (Coat hanger type) W=150, t=0~1.5		Single-phase, AC200V, 8A		
		(Coat hanger type)				
Inflation die	125C	ø25mm, slit 0.7 (Cross type)for PVC	For extruding blown film	Single-phase, AC100V, 4A		
	125S	ø25mm, slit 0.7 (spiral type)		Single-phase, AC200V, 6A		
Tube die	TU10 TU20	ø8x10mm (spider type) ø8x20mm (spider type)	For extruding tube	Single-phase, AC100V, 5A		
Wire coating die	WD	ø2mm, wire diameter=ø1mm (cross)	For electric wire	Single-phase, AC100V, 8A		
Slit die	CAPF2	W=20, L=100 t=0.5, 0.8, 1, 1.5mm (set)	For viscosity measurement	Single-phase, AC100V, 9A	STATE OF THE STATE	
Capillary die	CAPR	Orifice ø 1x5mm, 1x10mm, 1x20mm	For die swell measurement	Single-phase, AC100V, 8A		
Garvey die	GD		For testing conforms to ASTM D2230 (elastomers)	Single-phase, AC100V, 4A		

**■**Options (Film Take-off Devices)

Name	Model	Power	Dimensions	Weight	Photo
Film Take-off Device	FT2W20	requirement Single-phase, AC100V, 3A	Approx. W1200 x D720 x H1200mm		ECIN 300 9 9 - (4.75 a.)
Film & Sheet Take-off Device	FT3W20	Single-phase, AC100V, 3A	Approx. W1200 x D720 x H1200mm	Approx. 150kg	ECH STREET STREE
Inflation Take-off Device	INT	Single-phase, AC100V, 2A	Approx. W800 x D800 x H2400mm	Approx. 250kg	

■OPTIONS (Other than Die Heads and Film take-off devices)

	Name	Model
1	Temperature control 9 channels option	

Specifications are subject to change without notice.



5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan Tel:+81-3-3916-8183 Fax:+81-3-3916-8173 www.toyoseiki.co.jp

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