

REED TG SERIES: Standard Equipment

Hydro-Toggl™ clamp, with:
 Linear digital clamp movement control
 Semi-automatic die height adjustment with ability to set tonnage
 Die speed control in both directions
 Clamp slow control for ease of mold setting
 Ultra-sensitive mold protection
 Mechanical safety bar with self-adjusting fail-time action
 Front safety door, with hydraulic, electric and mechanical interlocks and monitoring
 Rear guard is electrically and hydraulically interlocked
 Automatic grease lubrication for toggle mechanism, with volume and frequency control
 Mechanical die open stops
 Twin-cylinder hydraulic ejection
 Multiple ejection
 Hydraulic ejection stay forward

16:1 L/D plasticator, with:
 Selector switch to program 3-stage injection sequence, plus independent pressure control
 Selector switch to choose most energy-efficient combination of pumps during screw turn
 Two screw torque ranges with infinitely variable speed adjustment
 Screw rear position decompression
 Standard screw, with non-return valve
 16:1 L/D one-piece nitrided barrel
 Nozzle with manual power control
 Electric barrel heater bands, 230/460 V.
 Solid-state proportioning temperature regulators
 Single-point screw swivel for fast, easy maintenance
 Overall cycle timer
 Overall cycle alarm
 Pacer timer for consistent single-cycle operation
 Screw back time delay

M2000 solid-state micro-processor control with:
 Programmed permanent logic
 Keyboard for manual machine motions
 Data entry by keyboard with digital display
 Automatic and semi-automatic cycle control by solid-state digital timers
 Diagnostic capabilities for trouble-shooting
 Power-on warning lights
 Interchangeable, plug-in temperature regulator
 Battery backup for settable controls

Overall machine features including:
 Drive motor 1200 RPM, 60 Hz, 3 phase
 Built-in oil filter with disposable element
 Heavy-duty heat exchanger for cooling oil

REED 150TG Specifications

	1 1/2" 5.5 OZ.	2" 10.5 OZ.
Thermoplastic Material Capacity		
Plasticating rate, lbs./hr. ¹		
Theoretical max. usable output	159	376
SPI Quality ⁴	132	312
Plasticating rate, oz./sec. ¹		
Theoretical max. usable output	.709	1.67
SPI Quality ⁴	.59	1.39
Material injected per shot, cu. in., max.	10.1	19.2
Material injected per shot, max. oz. styrene	5.5	10.5
Material hopper capacity, lbs.	100	100
Reciprocating Screw Injection Unit		
Maximum injection pressure, psi	14216/21361	14101/20664
Maximum injection rate, cu. in./sec.	22.27/14.82	22.46/15.33
Maximum injection stroke, in.	4.88	6.12
Maximum screw speed, rpm	248	313
Mold Clamping Mechanism		
Mold clamping force, tons ²	150	150
Hydraulic ejection force, tons	3.65	3.65
Mold clamping stroke, in.	15.88	15.88
Maximum mold thickness, in.	17.00	17.00
Minimum mold thickness, in.	4.625	4.625
Maximum mold size (horiz. x vert.) in.	17 x 25.5	17 x 25.5
Platen size (horiz. x vert.) in.	25.5 x 25.5	25.5 x 25.5
Space between tie bars, in.	17.00	17.00
Diameter of tie bars, in.	3	3
Maximum daylight opening, in.	32.88	32.88
Rated projected area, sq. in. ³	75	75
Ejection stroke (std.), in.	3.75	3.75
Speeds at Full Stroke		
Minimum dry cycle time — link end, sec.	2.40	2.40
Clamp closing speed, max., in./min.	2088	2088
Clamp opening speed, max., in./min.	1670	1670
General Specifications		
Machine system pressure, psi	2500	2500
Machine drive motor, h.p.	25	30
Heater band power, max. kw with nozzle option	7.5	11.2
Oil reservoir capacity, gal.	95	95
Machine dimensions, Length	14'3"	15'3"
Width	5'9"	5'9"
Height	6'10"	6'10"
Machine weight, lbs. (est.)	11,500	12,000

Notes:

1. Recovery rate, expressing instantaneous rates, based on Styrene @ 120° F. melt temperature
2. SPI Strain gage certified
3. Dependent upon mold design and plastic material used.
4. Values for 2 1/2" unit are test values. All others are extrapolated from 2 1/2" values.

No-motion Safety System

All machine motions stop immediately when gate is opened at any point during the cycle.
 All electrical, mechanical and hydraulic safety devices are interlocked for safer operation. A new Reed system provides for quick and easy checking.
 Guards do not have to be removed for servicing; they slide or swing