

BOY BOY MACHINES INC.

199 Philips Road, Exton, PA 19341
Phone: (215) 363-9121
Fax #: 215-363-0163

Quotation Boy 22-S

STANDARD AND OPTIONAL SPECIFICATIONS

INJECTION	Standard		Optional		
	Screw diameter—mm/in.	22/866"	24/944"	18/708"	28/1102"
Screw L/D	18	17	20	14.6	12.3
Screw Compression Ratio	2:1	2:1	2:1	2.25:1	2.20:1
Max injection volume at 50% theoretical — cu. in.	1.46	1.77	.97	2.38	2.99
Shot Capacity, GPS—gms/oz.	26/1	32/1.12	15/5	42/1.48	54/2
Max. injection pressure—psi	26,114	21,097	37,511	16,500	11,861
Plasticizing rate lbs/hr.	32	34	11	43	57
Screw Speed—rpm (adj.)	10-380		10-440		
Barrel heating—watts	2730				
Nozzle heating—watts	270				
System pressure—psi	2320				
Hopper Capacity, GPS—lbs.	21				

CLAMPING:	GENERAL	22-S	22-SV
Clamp force — U.S. tons	24.2	220V-3PH-60CY.	
Closing force — U.S. tons	2	Dry cycling speed—shots/hr.	
Opening force — U.S. tons	4.5	2540	
Nozzle force — U.S. tons	5.6	Total electrical rating—kw	
Distance between tie bars — mm/in.	254/10.0	8.5	
Daylight between platens — mm/in. (max)	400/15.75	Dimensions (horizontal inj.) L" W" H"	
Opening stroke — mm/in. (adj.)	200/7.87	89x30x62	
Hydraulic ejector stroke — mm/in.	80/3.15	Dimensions (vertical inj.) L" W" H"	
Mold size, std. — mm/in.	250x200/9.7/8x8	159x30x60	
Mold size, max. — mm/in.	250x304/9.7/8x12	Gross Weight—lbs.	
Mold height min. — mm/in.	200/7.87	2,380	
Nozzle stroke Max. — in.	7.09	Net Weight	
		1,800	
		Plant Space	
		16 sq. ft.	

STANDARD FEATURES

CLAMP

- Infinitely adjustable low pressure mold protection
- Full hydraulic clamp - no toggles - lubrication is unnecessary
- Infinitely adjustable mold opening and closing speed
- Closed loop water manifold with adjustable flow control
- Proximity switches
- Parts Chute

INJECTION

- ½" radius hydraulic shut-off nozzle
- Choice of 22mm or 24mm nitrited screw and barrel
- Tachometer
- Automatic sprue break
- Two closed loop barrel heat zones (mica heater bands), one potentiometer controlled nozzle zone
- One way clutch eliminates possibility of reverse screw rotation during injection
- Electrically interlocked purge shield for added safety
- Quick release coupling for simple, rapid hopper removal

ELECTRIC SYSTEM

- 24 volt solid state controls
- 220 volt 3 phase 60 cycle
- Digital set timers with 0.1 second adjustment with LED indicators
- LED display monitoring activation of each valve
- Automatic shut down feature, including oil level & over temperature monitor
- Electronic cycle counter
- Circuit breakers which simplify maintenance
- Two solid state temperature controllers
- Through cabinet door disconnect

HYDRAULIC SYSTEM

- Low noise, efficient, variable displacement axial piston pump
- All pressure adjusting valves are mounted to one easily accessible manifold
- Suction pressure filter/high capacity heat exchanger
- Oil tank thermometer and sight glass