

## 2.4 Main Specification

### SE50DUZ

2007.04.01

#### ● Clamping unit

Clamping system		Double toggle (5 points)	
Maximum Clamp force	kN {tf}	490 {50}	
Clearance between tie-bars (H x V)	mm	360 X 310	
Platen dimension (H x V)	mm	500 X 450	
Daylight	mm	600	
Mold opening stroke	mm	250	
Mold thickness	min.	mm	170
	max.	mm	350
Locator diameter	mm	φ 110	
Ejector mechanism	—	Motor driven type (5 points)	
Ejector force	kN {tf}	21 {2.2}	
Ejector stroke	mm	70	

#### ● Plasticization unit

Screw diameter	mm	C50			C75			C110			C160		
		S			S			S			S		
Maximum injection pressure * 1, * 2	MPa {kgf/cm <sup>2</sup> }	262 {2680}	212 {2170}	175 {1790}	270 {2760}	223 {2280}	172 {1760}	274 {2800}	212 {2170}	174 {1780}	274 {2800}	218 {2230}	167 {1710}
Maximum holding pressure * 1, * 2	MPa {kgf/cm <sup>2</sup> }	210 {2144}	170 {1736}	140 {1432}	216 {2208}	178 {1824}	138 {1408}	219 {2240}	170 {1736}	139 {1424}	219 {2240}	175 {1784}	134 {1368}
Theoretical injection capacity	cm <sup>3</sup>	19	23	28	27	33	43	40	51	64	51	64	84
Injection weight (GPPS)	g	18	22	27	26	32	41	38	49	61	49	61	80
	OZ	0.6	0.8	0.9	0.9	1.1	1.5	1.3	1.7	2.2	1.7	2.2	2.8
Plasticizing capability * 3 (GPPS at MAX rotation)	kg/h	10	13	18	13	18	26	18	26	37	26	37	53
	(rpm)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)
Injection rate	cm <sup>3</sup> /s	127	157	190	157	190	245	190	245	308	196	246	322
Screw stroke	mm	73			87			104			400		
Maximum injection speed	mm/s	73			87			104			400		
Screw maximum rotation speed	rpm	73			87			104			400		
Number of temperature control zones		4		5	4	5			5				
Heater capacity	kW	3.2	3.5	3.9	3.5	3.9	4.3	3.9	4.3	4.8	4.3	4.8	5.5
Nozzle pushing force * 7, * 8	A	5.8 {0.6}			7.8 {0.8}			7.8 {0.8}					
	B	7.8 {0.8}			(11 {1.2})			9.8 {1.0}					
	(OP)	(11 {1.2})											
Moveable stroke (protrusion) * 9	mm	250 (30)											
Hopper capacity	l	15											

#### ● Machine dimension and weight

Machine dimension(L x W x H) * 4	mm	3631 X 984 X 1790	3631 X 984 X 1790	3631 X 984 X 1790	3631 X 984 X 1790
Machine mass	t	2.1	2.2	2.3	2.4

- \* 1: The maximum injection pressure and the maximum holding pressure are calculated values. These values indicate not the resin pressure but the output of the unit.
- \* 2: The maximum injection pressure and the maximum holding pressure are not values that can be sustained continuously.
- \* 3: The plasticization capacity value indicates the capacity when the SD screw is loading.
- \* 4: The full length of the machine is the measurement taken when the smallest screw is loaded at the forward position of the injection unit.
- \* 5: The values within { } brackets are only reference figures.
- \* 6: We appreciate your kind understanding that as a result of our effort to enhance performance, there may be slight modifications to the specifications.
- \* 7: The value in ( ) denotes an option.
- \* 8: Either of A or B is selectable.
- \* 9: When the option (high-precision, high-power nozzle touch unit) is selected in the model SE50DU-C50, the plasticizing displacement stroke is 210mm (ejection of 30mm)