

## Technical Specification of Single Colour • HG Series



### HG 88 to HG 168

Description	Unit	HG 88			HG 128			HG 168		
		A	B	C	A	B	C	A	B	C
<b>Injection Unit</b>										
Screw Diameter	mm	35	37	40	37	40	43	40	45	48
Screw L/D Ratio	L/D	20.6	19.5	18	21.1	19.6	18.2	22.5	20	18.8
Short Volume (Theoretical)	cm <sup>3</sup>	123	137	160	172	201	232	270	342	389
Shot Weight	gms.	110	123	145	154	181	209	243	308	350
(PS)	OZ	3.9	4.3	5.1	5.43	6.38	7.37	8.57	10.9	12.4
Injection Pressure	MPa	193	173	148	196	168	145	201	159	140
Injection Speed	mm/s	93			99			114		
Screw Speed	rpm	0-220			0-220			0-180		
<b>Clamping Unit</b>										
Clamping Force	KN	880			1280			1680		
Toggle Stroke	mm	320			365			425		
Space Between Tie Bars	mm	365 x 365			412 x 412			465 x 465		
Max. Mould Height	mm	380			450			480		
Min. Mould Height	mm	150			160			180		
Ejector Stroke	mm	100			130			130		
Ejector Force	KN	27.5			39.6			39.6		
Ejector Number	n	5			5			5		
<b>Others</b>										
Max. Pump Pressure	MPa	16			16			16		
Pump Motor Power	KW	11			13			15		
Heater Power	KW	5.8			7.6			10		
Machine Dimensions (L x W x H)	m	3.82 x 1.08 x 2.04			4.39 x 1.12 x 2.08			4.98 x 1.21 x 2.22		
Oil Tank Capacity	Liter	185			185			200		
Machine Weight	Ton	3.5			4			5.5		

### HG 220 to HG 380

Name of item	Unit	HG-220			HG-260			HG-320			HG-380		
		A	B	C	A	B	C	A	B	C	A	B	C
<b>Injection unit</b>													
Screw Diameter	mm	45	50	55	50	55	60	60	65	70	65	70	75
Screw L/D Ratio	Ratio	22.2	20	18.2	22.5	20.5	18.8	21.7	20	18.6	22.4	20.6	19.2
Shot Volume	cm	350	432	522	491	594	707	735	862	1000	1094	1269	1457
Shot Weight	g	315	389	470	442	534	636	661	776	900	985	1142	1311
	oz	11.1	13.7	16.6	15.6	18.8	22.4	23.3	27.3	31.7	34.7	40.3	46.3
Injection Pressure	Mpa	210	170	141	205	169	142	219	187	161	208	180	156
Injection Rate	g/s	120	148	179	167	200	239	218	257	300	275	319	366

Injection Stroke	mm	220			250			0~260			330		
Plasticizing Capacity	g/s	26.2	31.5	37	31.5	41.2	49	45.5	55.8	60.8	57.5	64.3	69.5
Screw Speed	rpm	0 ~ 200			0~180			180			0~180		
<b>Clamping unit</b>													
Mould Clamping Force	Kn	2200			2600			3200			3800		
Opening Stroke	mm	490			540			640			700		
Space Between Tie-bars	mmxmm	530x530			580x580			685 X 685			726x726		
Platen Dimension (H X W)	mmxmm	791x791			860x860			990 X 990			1036 X 1040		
Max.Mould Thickness	mm	560			610			690			760		
Min.Mould Thickness	mm	200			220			250			250		
Ejector Stroke	mm	140			150			160			180		
Ejector Force	Kn	62			62			70			110		
Ejector Number	N	9			9			13			13		
<b>Others</b>													
Pump Pressure	mpa	16			16			16			16		
Pump Motor Power	Kw	18.5			22			30			37		
Heating Capacity	Kw	11.65			14.7			17			19.65		
Machine Dimensions(LxWxH)	m xmm x m	5.8x1.21x2.22			6.04x1.5x2.34			6.76 X 1.71 X 2.42			7.23x1.86x2.57		
Oil Tank Capacity	Liter	320			405			550			650		
Machine Weight	Ton	6.7			9			11			15		

**HG 470 to HG 650**

Name of item	Unit	HG-470			HG 568				HG 650				
		A	B	C	A	B	C	D	A	B	C	D	
<b>Injection unit</b>													
Screw Diameter	mm	75	80	84	75	84	90	100	80	90	100	110	
Screw L/D Ratio	Ratio	21.4	20	19	23.6	21.1	19.7	17.7	24.8	22	19.8	18	
Shot size(Theoretical)	cm	1722	1959	2160	1987	2492	2861	3532	2261	2861	3533	4274	
Shot Weight	g	1550	1763	1944	1788	2242	2575	3179	2035	2576	3179	3847	
	oz	54.7	62.2	68.6	63.1	79.1	90.8	112.1	71.8	90.8	112.1	135.7	
Injection Pressure	Mpa	177	156	141	205	163	142	115	224	177	143	118	
Injection Rate	g/s	382	434	479	358	448	515	635	407	515	635	770	
Injection Stroke	mm	390			450				450				
Plasticizing Capacity	g/s	59.8	68	79.8	56.3	77.9	89.4	110.4	56.7	71.8	88.6	107.3	
Screw Speed	rpm	0~160			0~110				120				
<b>Clamping unit</b>													
Mould Clamping Force	Kn	4700			5680				6500				
Opening Stroke	mm	780			850				900				
Space Between Tie-bars	mmxmm	820x800			835x835				895x895				
Platen Dimension (H X W)	mmxmm	1180x1210			1250x1250				1340x1340				
Max.Mould Thickness	mm	830			880				900				
Min.Mould Thickness	mm	300			350				400				
Ejector Stroke	mm	200			250				260				
Ejector Force	Kn	110			158				186				

Ejector Number	N	17	17	17
<b>Others</b>				
Pump Pressure	mpa	16	16	16
Pump Motor Power	Kw	45	55	30+30
Heating Capacity	Kw	23.65	34	46.45
Machine Dimensions(LxWxH)	m×m×m	8.0×1.90×2.71	9.0×2.5×2.8	9.93×2.45×2.8
Oil Tank Capacity	Liter	660	1200	1100
Machine Weight	Ton	20	30	36

**HG 780 to HG 1300**

Name of item	Unit	HG-780				HG-1000				HG-1300			
		A	B	C	D	A	B	C	D	A	B	C	D
<b>Injection unit</b>													
Screw Diameter	mm	90	100	110	120	100	110	120	130	110	120	130	140
Screw L/D Ratio	Ratio	24.5	22	20	18.3	24.3	22.1	20.2	18.7	26.2	24.1	22.4	20.9
Shot size(Theoretical)	mm	2925	3611	4369	5200	4004	4844	5765	6089	5224	6217	7297	8462
Shot Weight	g	2632	3250	3932	4680	3603	4360	5189	6089	4702	5595	6567	7616
	oz	92.9	114	138	165	127.1	153	183	214	165.8	197.4	231.6	268.6
Injection Pressure	Mpa	228	184	152	128	211	174	146	125	205	172	147	126
Injection Rate	g/s	504	622	753	896	678	821	977	1146	752	895	1050	1218
Injection Stroke	mm	460				510				600			
Plasticizing Capacity	g/s	71	88	107	127	88.3	100.8	120	140.8				
Screw Speed	rpm	0~110				0~110				0~100			
<b>Clamping unit</b>													
Mould Clamping Force	Kn	7800				10000				13000			
Opening Stroke	mm	985				1200				1400			
Space Between Tie-bars	mm×mm	980×980				1100×1100				1350×1280			
Platen Dimension (H X W)	mm×mm	1450x1450				1775x1680				1896x1934			
Max.Mould Thickness	mm	1000				1200				1400			
Min.Mould Thickness	mm	400				500				550			
Ejector Stroke	mm	280				320				350			
Ejector Force	Kn	186				215				215			
Ejector Number	N	21				21				25			
<b>Others</b>													
Pump Pressure	mpa	16				16				16			
Pump Motor Power	Kw	37+37				45+45				55+55			
Heating Capacity	Kw	58.45				68.45				85.25			
Machine Dimensions(LxWxH)	m×m×m	11.0×2.6×3.8				11.9×2.8×4.0				13.2×3.1×3.6			
Oil Tank Capacity	Liter	1500				1800				2400			
Machine Weight	Ton	45				56				65			

**HG 1600**

Name of item	Unit	HG-1600			
		A	B	C	D

<b>Injection unit</b>					
Screw Diameter	mm	120	130	140	150
Screw L/D Ratio	Ratio	26.1	24.1	22.4	20.9
Shot size(Theoretical)	mm	6669	7827	9078	10421
Shot Weight	g	6002	7045	8170	9379
	oz	211.7	248.5	288.2	330.8
Injection Pressure	Mpa	193	164	142	123
Injection Rate	g/s	1058	1242	1440	1838
Injection Stroke	mm	590			
Plasticizing Capacity	g/s	125.8	147.6	171.2	196.5
Screw Speed	rpm	0~125			
<b>Clamping unit</b>					
Mould Clamping Force	Kn	16000			
Opening Stroke	mm	1600			
Space Between Tie-bars	mm×mm	1500×1415			
Platen Dimension (H X W)	mm×mm	2180×2180			
Max.Mould Thickness	mm	1500			
Min.Mould Thickness	mm	700			
Ejector Stroke	mm	350			
Ejector Force	Kn	318			
Ejector Number	N	29			
<b>Others</b>					
Pump Pressure	mpa	16			
Pump Motor Power	Kw	45+45+45			
Heating Capacity	Kw	91.9			
Machine Dimensions(L×W×H)	m×m×m	13.85×3.43×4.2			
Oil Tank Capacity	Liter	2750			
Machine Weight	Ton	100			