

SYSTEC Hydraulic Series

Detailed Specifications
ENGLISH UNITS



Technical Data Systec 35/320

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. platen	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator	[in ³ /s]
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Plastizing rate (PS)

> Motor 1	[oz/s]
> Motor 2	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ¹⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ²⁾	[gal]
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Installed electrical rating

> Pump	[~kW]
> Barrel heating capacity	[~kW]
> Capacity	
Dry cycle time (Euromap 6)	[sec-in]
Net weight (without oil) ³⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Screw drive overhang standard max. (h)	[in]

Systec 35/320

35/320-35	35/320-120	35/320-200
350-35	350-120	350-200

35/320

39.33/39.33
13.78
7.09/9.06/11.02
20.87/22.83/24.8
18.11x17.72
12.6x12.6
6.3
440/330
3.94
3.71/1.46

35

120

200

14	18	22	22	25	30	25	30	35
standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20
39958	34026	22771	37579	29095	20204	40611	28935	21263
0.9	1.4	2.1	2.6	3.7	5.4	3.7	6.5	8.8
0.4	0.7	1.1	1.3	1.9	2.8	1.9	3.3	4.5
2.26	3.72	5.61	3.42	4.39	6.29	3.05	4.39	5.98
0.05	0.18	0.3	0.25	0.39	0.67	0.32	0.53	0.71
0.04	0.14	0.25	0.18	0.32	0.53	0.25	0.42	0.56
3.54	3.54	3.54	4.33	4.92	4.92	4.92	5.91	5.91
				9.84				
	1.18			1.57			1.57	
				6.74				
				4				
				77				

35/320-35

35/320-120

35/320-200

				38				
				7.5				
4	4.3	5.3	5.3	5.8	8.3	5.8	8.3	9.4
12	12	13	13	13	16	13	16	17
				0.08-8.82				
	2.89			2.9			2.9	
				10.4x4.1x6.59				
-	-	-	-	-	2.76	-	2.76	8.43

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

1) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

2) First filling / operating

3) The net weight of the machine may vary depending on equipment

Technical Data Syste 50/370

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. platen	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator	[in ³ /s]
> Without accumulator ActiveDrive	[in ³ /s]

Plastizing rate (PS)

> Motor 1	[oz/s]
> Motor 2	[oz/s]
> Motor 1 (120 bar) activeDrive	[oz/s]
> Motor 2 (120 bar) activeDrive	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump	[~kW]
> Pump ActiveDrive	[~kW]
> Barrel heating capacity	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[sec-in]
Dry cycle time (Euro 6) activeDrive	[sec-in]
Net weight (without oil) ⁴⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
 Plastizing rate depends on processing conditions and material employed.
 Electrical power supply refers to the standard configuration of the machine.

Systec 50/370

50/370-80	50/370-120	50/370-200	50/370-310
500-80	500-120	500-200	500-310

50/370

56.19/56.19												
15.75												
8.27/10.24/12.2												
22.05 ¹⁾ /24.02/25.98/27.95												
21.26x20.87												
14.57x14.57												
7.87												
650/420												
4.92												
4.61/1.69												

80			120			200			310		
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18	22	25	22	25	30	25	30	35	30	35	40
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
41597	29892	23148	37579	29095	20204	40611	28935	21263	39958	29356	22481
1.4	2.6	3.3	2.6	3.7	5.4	3.7	6.5	8.8	7	10.3	13.4
0.7	1.3	1.7	1.3	1.9	2.8	1.9	3.3	4.5	3.6	5.3	6.9
4.15	6.16	7.93	4.88	6.35	9.09	4.39	6.35	8.66	4.64	6.29	8.18
4.76	7.14	9.21	5.67	7.81	10.56	5.13	7.38	10.01	5.31	7.26	9.52
0.21	0.35	0.56	0.28	0.46	0.78	0.39	0.63	0.85	0.49	0.67	0.95
0.14	0.28	0.46	0.21	0.39	0.63	0.28	0.49	0.67	0.39	0.53	0.78
0.21	0.35	0.6	0.32	0.56	0.92	0.53	0.88	1.2	0.71	0.95	1.41
0.21	0.32	0.56	0.32	0.53	0.88	0.42	0.71	0.95	0.56	0.78	1.13
3.54	4.33	4.33	4.33	4.92	4.92	4.92	5.91	5.91	6.38	6.89	6.89
	9.84			9.84			9.84			9.84	
	1.57			1.57			1.57			1.57	
	6.74			6.74			6.74			6.74	
	4			4			4			4	
77											

50/370-80	50/370-120	50/370-200	50/370-310
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42											
11											
20											
4.3	5.3	5.8	5.3	5.8	8.3	5.8	8.3	9.4	8.3	9.4	11.1
16	16	17	16	17	19	17	19	20	19	20	22
24	25	26	25	26	28	26	28	29	28	29	31
0.08-10.2											
0.08-10.2											
3.58			3.58			3.64			3.69		
12.01x4.69x6.3											
-	-	-	-	-	-	-	-	-	-	2.05	6.89
-	-	-	-	-	-	-	-	-	-	2.05	6.89

- 1) reduced
- 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
- 3) First filling / operating
- 4) The net weight of the machine may vary depending on equipment

Technical Data Systec 60/420

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. platen	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]
Max. rate of injection	
> Without accumulator	[in ³ /s]
> Without accumulator ActiveDrive	[in ³ /s]
Plastizing rate (PS)	
> Motor 1 ²⁾	[oz/s]
> Motor 2 increased torque ²⁾	[oz/s]
> Motor 1 (120 bar) activeDrive	[oz/s]
> Motor 2 (120 bar) activeDrive	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ³⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ⁴⁾	[gal]
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Installed electrical rating

> Pump ⁵⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Barrel heating capacity	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[sec-in]
Dry cycle time (Euro 6) activeDrive	[sec-in]
Net weight (without oil) ⁶⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

Systec 60/420

60/420-200	60/420-310	60/420-430
600-200	600-310	600-430

60/420		
67.43/67.43		
17.72		
5.91 ¹⁾ /9.84/11.81/13.78		
23.62 ¹⁾ /27.56/29.53/31.5		
23.62x23.62		
16.54x16.54		
8.46		
780/500		
5.91		
4.61/1.69		

200			310			430		
25	30	35	30	35	40	35	40	45
standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20
40611	28935	21263	39958	29356	22481	38348	29370	23206
3.7	6.5	8.8	7	10.3	13.4	10.8	14.1	17.9
1.9	3.3	4.5	3.6	5.3	6.9	5.6	7.2	9.1
5.06	7.38	10.01	5.31	7.26	9.52	5.55	7.26	9.15
6.96	10.13	13.67	7.26	9.89	12.94	7.57	9.89	12.57
0.53	0.88	1.2	0.71	0.92	1.3	0.74	1.02	1.3
0.39	0.71	0.92	0.56	0.74	1.02	0.6	0.81	1.09
0.53	0.88	1.2	0.78	1.06	1.45	0.85	1.16	1.55
0.46	0.78	1.06	0.63	0.85	1.16	0.67	0.92	1.23
4.92	5.91	5.91	6.38	6.89	6.89	7.24	7.24	7.24
	9.84			9.84			11.81	
	1.57			1.57			1.57	
	6.74			6.74			6.74	
4	4	4	4	4	4	4	4	5
				77				

60/420-200			60/420-310			60/420-430		
			48					
			15					
			20					
5.8	8.3	9.4	8.3	9.4	11.1	9.4	11.1	11.3
21	23	24	23	24	26	24	26	26
26	28	29	28	29	31	29	31	31
			0.08-11.57					
			0.08-11.57					
4.3			4.35			4.41		
			13.39x4.89x6.56					
-	-	-	-	-	-	-	0.55	6.69
-	-	-	-	-	-	-	0.55	6.69

1) reduced

2) Standard/increased (ZE1092)

3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

4) First filling / operating

5) Standard/increased

6) The net weight of the machine may vary depending on equipment

Technical Data Systec 80/420

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. platen	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator	[in ³ /s]
> Without accumulator ActiveDrive	[in ³ /s]

Plastizing rate (PS)

> Motor 1 ²⁾	[oz/s]
> Motor 2 increased torque ²⁾	[oz/s]
> Motor 1 (120 bar) activeDrive	[oz/s]
> Motor 2 (120 bar) activeDrive	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ³⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ⁴⁾	[gal]
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Installed electrical rating

> Pump ⁵⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Barrel heating capacity	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[sec-in]
Dry cycle time (Euro 6) activeDrive	[sec-in]
Net weight (without oil) ⁶⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
 Plastiscising rate depends on processing conditions and material employed.
 Electrical power supply refers to the standard configuration of the machine.

Systec 80/420

80/420-200	80/420-310	80/420-430
800-200	800-310	800-430

80/420

89.9/89.9		
17.72		
5.91 ¹⁾ /9.84/11.81/13.78		
23.62 ¹⁾ /27.56/29.53/31.5		
23.62x23.62		
16.54x16.54		
8.46		
780/500		
5.91		
4.61/1.69		

200 310 430

200	310	430
25 30 35	30 35 40	35 40 45
standard standard standard	standard standard standard	standard standard standard
20 20 20	20 20 20	20 20 20
40611 28935 21263	39958 29356 22481	38348 29370 23206
3.7 6.5 8.8	7 10.3 13.4	10.8 14.1 17.9
1.9 3.3 4.5	3.6 5.3 6.9	5.6 7.2 9.1
5.06 7.38 10.01	5.31 7.26 9.52	5.55 7.26 9.15
6.96 10.13 13.67	7.26 9.89 12.94	7.57 9.89 12.57
0.53 0.88 1.2	0.71 0.92 1.3	0.74 1.02 1.38
0.39 0.71 0.92	0.56 0.74 1.02	0.6 0.81 1.09
0.53 0.88 1.2	0.78 1.06 1.45	0.85 1.16 1.55
0.46 0.78 1.06	0.63 0.85 1.16	0.67 0.92 1.23
4.92 5.91 5.91	6.38 6.89 6.89	7.24 7.24 7.24
	9.84	11.81
	1.57	1.57
	6.74	6.74
4 4 4	4 4 4	4 4 5
	77	

80/420-200 80/420-310 80/420-430

48		
15		
20		
5.8 8.3 9.4	8.3 9.4 11.1	9.4 11.1 11.3
21 23 24	23 24 26	24 26 26
26 28 29	28 29 31	29 31 31
0.08-11.57		
0.08-11.57		
4.3	4.41	4.41
13.39x4.89x6.56		
- - -	- - -	- 0.55 6.69
- - -	- - -	- 0.55 6.69

- 1) reduced
- 2) Standard/increased (ZE1092)
- 3) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
- 4) First filling / operating
- 5) Standard/increased
- 6) The net weight of the machine may vary depending on equipment

Technical Data Systec 100/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamp Unit	
Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. platen	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]
Max. rate of injection	
> Without accumulator ¹⁾	[in ³ /s]
Plastizing rate (PS)	
> Motor 1 ¹⁾	[oz/s]
> Motor 2 increased torque ¹⁾	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]
General data	
Oil tank capacity ³⁾	[gal]
Installed electrical rating	
> Pump	[~kW]
> Pump ActiveDrive	[~kW]
> Barrel heating capacity	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[sec-in]
Dry cycle time (Euro 6) activeDrive	[sec-in]
Net weight (without oil) ⁴⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

Systec 100/420												
100/420-200			100/420-310			100/420-430			100/420-600			
1000-200			1000-310			1000-430			1000-600			
100/420												
112.38/112.38												
19.69												
5.91/9.84/11.81/13.78												
25.59/29.53/31.5/33.46												
23.62x23.62												
16.54x16.54												
8.46												
780/500												
5.91												
4.61/1.69												
120			310			430			600			
25	30	35	30	35	40	35	40	45	40	45	50	
			standard	standard	standard	standard	standard	standard	standard	standard	standard	
20	20	20	20	20	20	20	20	20	20	20	20	
40611	28935	21263	39958	29356	22481	38348	29370	23206	35143	27760	22481	
3.7	6.5	8.8	7	10.3	13.4	10.8	14.1	17.9	15.3	19.6	24.3	
1.9	3.3	4.5	3.6	5.3	6.9	5.6	7.2	9.1	8	10.3	12.7	
5.67/7.75	7.32/10.01	10.56/14.46	7.26/9.21	9.28/12.57	12.94/16.41	7.57/9.64	9.89/12.57	12.57/15.87	8.3/10.5	10.5/13.3	12.94/16.41	
0.53/0.53	0.88/0.88	1.2/1.2	0.78/0.92	1.06/1.23	1.45/1.69	0.85/0.99	1.16/1.38	1.55/1.83	0.6/0.74	0.81/1.02	1.09/1.41	
0.39/0.46	0.78/0.78	0.92/1.06	0.63/0.74	0.85/0.99	1.16/1.38	0.67/0.78	0.92/1.09	1.23/1.48	0.49/0.6	0.63/0.81	0.88/1.09	
4.92	5.91	5.91	6.38	6.89	6.89	7.24	7.24	7.24	7.87	7.99	7.99	
			9.84			11.81			11.81			
			1.57			1.57			1.57			
			6.74			6.74			6.74			
4	4	4	4	4	4	4	4	4	4	4	5	
77			77			77			110			
100/420-120			100/420-310			100/420-430			100/420-600			
48												
18.5												
20/35												
5.8	8.3	9.4	8.3	9.4	11.1	9.4	11.1	11.3	11.1	11.3	15.7	
24	27	28	27	28	30	28	30	30	30	30	34	
26/41	28/43	29/44	28/43	29/44	31/46	29/44	31/46	31/46	31/46	31/46	36/51	
0.08-11.57												
0.08/11.57												
4.79			4.85			4.9			4.96			
13.71x4.89x6.56												
-	-	-	-	-	-	-	0.55	6.69	3.7	9.02	14.49	
-	-	-	-	-	-	-	0.55	6.69	3.7	9.02	14.49	

1) Standard/increased (ZE1092)

2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

3) First filling / operating

4) The net weight of the machine may vary depending on equipment

Technical Data Systec 120/470

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamp Unit	
Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. platen	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]
Max. rate of injection	
> Without accumulator	[in ³ /s]
Plastizing rate (PS)	
> Motor 1	[oz/s]
> Motor 2	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ¹⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]
General data	
Oil tank capacity ²⁾	[gal]
Installed electrical rating	
> Pump	[~kW]
> Pump ActiveDrive	[~kW]
> Barrel heating capacity	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[sec-in]
Dry cycle time (Euro 6) activeDrive	[sec-in]
Net weight (without oil) ³⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]

Systec 120/470									
120/470-310			120/470-430			120/470-600			
1200-310			1200-430			1200-600			
120/470									
			134.86/134.86						
			23.62						
			5.91/9.84/11.81/13.78						
			29.53/33.46/35.43/37.4						
			26.38x26.38						
			18.5x18.5						
			9.06						
			1100/750						
			7.09						
			4.61/1.69						
310			430			600			
30	35	40	35	40	45	40	45	50	
standard	standard	standard	standard	standard	standard	standard	standard	standard	
20	20	20	20	20	20	20	20	20	
39958	29356	22481	38348	29370	23206	35143	27760	22481	
7	10.3	13.4	10.8	14.1	17.9	15.3	19.6	24.3	
3.6	5.3	6.9	5.6	7.2	9.1	8	10.3	12.7	
9.21	12.57	16.41	9.64	12.57	15.87	10.5	13.3	16.35	
0.92	1.23	1.83	0.99	1.48	1.83	0.81	1.02	1.48	
0.71	0.99	1.45	0.78	1.16	1.48	0.63	0.81	1.16	
6.38	6.89	6.89	7.24	7.24	7.24	7.87	7.99	7.99	
	9.84			11.81			11.81		
	1.57			1.57			1.57		
	6.74			6.74			6.74		
4	4	4	4	4	4	4	4	5	
	77			77			110		
120/470-310			120/470-430			120/470-600			
			58						
			22						
			35						
8.3	9.4	11.1	9.4	11.1	11.3	11.1	11.3	15.7	
30	31	33	31	33	33	33	33	38	
43	44	46	44	46	46	46	46	51	
			0.08-12.95						
			0.08-12.95						
6.06			6.06			6.17			
			14.93x5.15x7.12						
-	-	-	-	-	1.3	-	1.14	9.13	
-	-	-	-	-	1.3	-	1.14	9.13	

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

1) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

2) First filling / operating

3) The net weight of the machine may vary depending on equipment

Technical Data Systec 160/520-310...840

Sumitomo (SHI) Demag

Model description
International size description

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ActiveDrive	[in ³ /s]
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Plastizing rate (PS)

> Motor 1 (120 bar) activeDrive ¹⁾	[oz/s]
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> Motor 2 (120 bar) activeDrive ¹⁾	[oz/s]
---	--------

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ActiveDrive	[~kW]
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> Barrel heating capacity	[~kW]
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> Capacity with ActiveDrive	[kW]
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Dry cycle time (Euro 6) activeDrive ¹⁾	[sec-in]
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Net weight (without oil) ⁴⁾	[~Ton]
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Transport dimensions (l x w x h)	[~ft]
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Motor end projection 1 max. (h)	[in]
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Motor end projection 2 max. (h)	[in]
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Systec 160/520

160/520-310	160/520-430	160/520-600	160/520-840
1600-310	1600-430	1600-600	1600-840

160/520

179.81/197.79
19.69
10.83
23.03/26.97
42.72/46.65
30.31x30.31
20.47x20.47
11.81
2200/1300/1700
6.3
6.63/3.26

310 430 600 840

30	35	40	35	40	45	40	45	50	45	50	60
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
39958	29356	22481	38348	29370	23206	35070	27760	22481	34838	28224	19595
7.6	10.3	13.4	10.3	14.1	17.9	14.1	19.7	24.3	21.8	27	38.8
4	5.4	7.1	5.4	7.4	9.4	7.4	10.4	12.8	11.5	14.2	20.4

6.77/10.07	9.21/13.73	12.02/17.94	7.08/10.5	9.21/13.73	11.65/17.33	7.69/11.47	9.76/14.52	12.02/17.88	7.75/11.53	9.58/14.28	13.79/20.56
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0.85/0.92	1.16/1.23	1.69/1.83	0.92/1.23	1.38/1.83	1.73/2.33	0.85/1.13	1.06/1.41	1.52/2.01	0.71/1.06	0.99/1.48	1.55/2.33
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0.67/0.92	0.92/1.23	1.38/1.83	0.74/0.99	1.09/1.48	1.38/1.87	0.67/0.88	0.85/1.13	1.2/1.62	0.53/0.74	0.74/1.06	1.13/1.66
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	6.89		6.89		7.24		8.86
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11.81/11.81	11.81/11.81	11.81/11.81	15.75/12.68	15.75/12.56	15.75/11.57	15.75/12.56	15.75/11.57	15.75/11.46	36.02/16.54	30/16.02	18.31/14.49
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	0.79		0.79		0.79		0.79
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	6.74		8.99		8.99		12.36
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	4		4		4		5
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	77		77		110		154
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160/520-310 160/520-430 160/520-600 160/520-840

127 / 106

25/45

8.3	9.4	11.1	9.4	11.1	11.3	11.1	11.3	15.7	13	14.8	23
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33/53	34/54	36/56	34/54	36/56	36/56	36/56	36/56	41/61	38/58	40/60	48/68
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0.06/0.05-14.33

7.64	7.64	7.81	8.1
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17.75x5.45x7.02	17.75x5.45x7.02	17.75x5.45x7.02	19.75x5.45x7.02
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-	-	-	-	-	-	0.16	5.63	44.88	44.88	44.88
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-	-	-	-	-	-	0.16	5.63	44.88	44.88	44.88
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The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plastising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

1) Standard/increased

2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

3) First filling / operating

4) The net weight of the machine may vary depending on equipment

Technical Data Systec 210/580-430...1450

Sumitomo (SHI) Demag

Model description
International size description

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ActiveDrive	[in ³ /s]
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Plastizing rate (PS)

> Motor 1 (120 bar) activeDrive ¹⁾	[oz/s]
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> Motor 2 (120 bar) activeDrive ¹⁾	[oz/s]
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Max. screw stroke	[in]
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Max. distance of nozzle retraction ²⁾	[in]
--	------

Max. nozzle dipping depth (WA650)	[in]
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Nozzle contact force	[Ton]
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Number of heating zones	
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Hopper capacity, optional	[lb]
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General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ActiveDrive	[~kW]
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> Barrel heating capacity	[~kW]
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> Capacity with ActiveDrive	[kW]
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Dry cycle time (Euro 6) activeDrive ¹⁾	[sec-in]
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Net weight (without oil) ⁴⁾	[~Ton]
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Transport dimensions (l x w x h)	[~ft]
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Motor end projection 1 max. (h)	[in]
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Motor end projection 2 max. (h)	[in]
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Systec 210/580

210/580-430	210/580-600	210/580-840	210/1450
2100-430	2100-600	2100-840	2100-1450

210/580

236/259.6											
22.64											
13.39											
27.17/31.1											
49.8/53.74											
33.86x33.86											
22.83x22.83											
13.78											
3300/2000/2500											
7.09											
8.2/4.05											

430 600 840 1450

35	40	45	40	45	50	45	50	60	50	60	70
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
38290	29370	23206	35070	27760	22481	34838	28224	19595	35186	27630	20305
10.3	14.1	17.9	14.1	19.7	24.3	21.8	27	38.8	32.3	46.6	63.4
5.4	7.4	9.4	7.4	10.4	12.8	11.5	14.2	20.4	17	24.5	33.4

10.5/14.28	13.73/18.67	17.33/23.61	11.47/15.26	14.52/19.34	17.88/23.86	11.53/15.38	14.28/19.04	20.56/27.4	10.13/13.49	14.58/19.4	19.83/26.42
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1.23/1.09	1.83/1.62	2.33/2.05	1.13/1.13	1.41/1.41	2.01/2.01	1.06/1.41	1.48/2.01	2.33/3.1	1.06/1.41	1.66/2.22	2.36/3.14
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0.99/0.99	1.48/1.48	1.87/1.87	0.88/0.88	1.13/1.13	1.62/1.62	0.74/0.99	1.06/1.41	1.66/2.22	0.67/0.88	1.02/1.38	1.45/1.98
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6.89			7.24			8.86			10.63		
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15.75/13.07	15.75/13.07	15.75/11.97	15.75/12.95	15.75/11.97	15.75/11.85	36.42/16.93	30.39/16.42	18.7/14.88	43.31/16.42	31.61/14.88	19.65/14.84
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0.79			0.79			0.79			0.79		
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8.99			8.99			12.36			12.36		
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4			4			5			5		
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77			110			154			243		
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210/580-430 210/580-600 210/580-840 210/580-1450

127/106											
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26/51											
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9.4	11.1	11.3	11.1	11.3	15.7	13	14.8	23.1	14.8	23.1	27
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35/60	37/62	37/62	37/62	37/62	42/67	39/64	41/66	49/74	41/66	49/74	53/78
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0.06/0.06-15.98											
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9.84			9.84			10.18			12.15		
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19.75x25.46x7.05			19.88x25.46x7.05			22.05x25.46x7.05			22.28x25.46x7.05		
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-			-			37.4			56.38		
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-			-			37.4			56.38		
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The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
Plasticising rate depends on processing conditions and material employed.
Electrical power supply refers to the standard configuration of the machine.

1) Standard/increased
2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
3) First filling / operating
4) The net weight of the machine may vary depending on equipment

Technical Data Systec 280/630-600...2300

Sumitomo (SHI) Demag

Model description
International size description

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ActiveDrive	[in ³ /s]
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Plasticizing rate (PS)

> Motor 1 (120 bar) activeDrive ¹⁾	[oz/s]
> Motor 2 (120 bar) activeDrive ¹⁾	[oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ActiveDrive	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euro 6) activeDrive ¹⁾ [sec-in]	
Net weight (without oil) ⁴⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]

Systec 280/630

280/630-600	280/630-840	280/630-1450	280/630-2300
2800-600	2800-840	2800-1450	2800-2300

280/620

314.66/346.13			
26.57			
12.99			
27.95/32.68			
54.53/59.25			
37.4x37.4			
24.8x24.8			
15.75			
4300/2500/3300			
7.87			
8.2/4.05			

600 840 1450 2300

40	45	50	45	50	60	50	60	70	60	70	80
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
35070	27760	22481	34838	28224	19595	35186	27630	20305	35186	27224	20842
14.1	19.7	24.3	21.8	27	38.8	32.3	46.6	63.4	54.4	74	96.6
7.4	10.4	12.8	11.5	14.2	20.4	17	24.5	33.4	28.6	38.9	50.8

11.47/15.26	14.52/19.34	17.88/23.86	11.53/15.38	14.28/19.04	20.56/27.4	10.13/13.49	13.97/19.4	19.83/26.42	10.86/14.46	14.77/19.71	19.34/25.75
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1.13/1.13	1.41/1.41	2.01/2.01	1.06/1.41	1.48/2.01	2.33/3.1	1.06/1.41	1.66/2.22	2.36/3.14	1.02/1.38	1.45/1.98	2.05/2.79
0.88/0.88	1.13/1.13	1.62/1.62	0.74/0.99	1.06/1.41	1.66/2.22	0.67/0.88	1.02/1.38	1.45/1.98	0.71/0.99	1.02/1.41	1.45/1.94
7.24			8.86			10.63			12.4		
15.75/14.53	15.75/13.54	15.75/13.43	36.02/18.5	30/17.99	18.31/16.46	43.31/17.99	31.61/16.46	19.65/16.42	45.47/16.46	33.5/16.42	24.88/16.54
0.79			0.79			0.79			0.79		
8.99			12.36			12.36			12.36		
4			5			5			5		
110			154			243			243		

280/630-600 280/630-840 280/630-1450 280/630-2300

174 / 145											
26/51											
11.1	11.3	15.7	13	14.8	23.1	14.8	23.1	27	23.1	27	30.6
37/62	37/62	42/67	39/64	41/66	49/74	41/66	49/74	53/78	49/74	53/78	57/82
0.07/0.06-17.36											
13.66			14.47			14.47			15.05		
21.62x6.3x7.38			21.72x6.3x7.38			23.89x6.3x7.38			24.12x6.3x7.38		
-			22.44			41.46			60.39		
-			22.44			41.46			60.39		

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
 Plasticizing rate depends on processing conditions and material employed.
 Electrical power supply refers to the standard configuration of the machine.

1) Standard/increased
 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
 3) First filling / operating
 4) The net weight of the machine may vary depending on equipment

Technical Data Systec 350/720-600...2300

Sumitomo (SHI) Demag

Model description
International size description

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ActiveDrive	[in ³ /s]
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Plastizing rate (PS)

> Motor 1 (120 bar) activeDrive ¹⁾	[oz/s]
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> Motor 2 (120 bar) activeDrive ¹⁾	[oz/s]
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Max. screw stroke	[in]
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Max. distance of nozzle retraction ²⁾	[in]
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Max. nozzle dipping depth (WA650)	[in]
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Nozzle contact force	[Ton]
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Number of heating zones	
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Hopper capacity, optional	[lb]
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General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ActiveDrive	[~kW]
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> Barrel heating capacity	[~kW]
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> Capacity with ActiveDrive	[kW]
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Dry cycle time (Euro 6) activeDrive ¹⁾	[sec-in]
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Net weight (without oil) ⁴⁾	[~Ton]
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Transport dimensions (l x w x h)	[~ft]
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Motor end projection 1 max. (h)	[in]
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Motor end projection 2 max. (h)	[in]
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Systec 350/720

350/720-600	350/720-840	350/720-1450	350/720-2300
3500-600	3500-840	3500-1450	3500-2300

350/720

393.33/432.66											
28.74											
13.78											
29.33/37.4											
58.07/66.14											
40.94x41.73											
28.35x28.35											
15.75											
4700/2650/3600											
7.87											
8.2/4.05											

600 840 1450 2300

600			840			1450			2300		
40	45	50	45	50	60	50	60	70	60	70	80
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
35070	27760	22481	34838	28224	19595	35186	27630	20305	35099	27224	20842
14.1	19.7	24.3	21.8	27	38.8	32.3	46.6	63.4	54.4	74	96.6
7.4	10.4	12.8	11.5	14.2	20.4	17	24.5	33.4	28.6	38.9	50.8

15.26/19.34	19.34/24.47	23.86/30.2	15.38/19.47	19.04/24.04	27.4/34.66	13.49/17.09	19.4/24.59	26.42/33.44	14.46/18.31	19.71/24.96	25.75/32.58
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0.95/0.95	1.27/1.27	1.69/1.69	1.41/1.73	2.01/2.47	3.1/3.88	1.41/1.76	2.22/2.75	3.14/3.91	1.38/1.73	1.98/2.47	2.79/3.42
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0.78/0.78	1.02/1.02	1.34/1.34	0.99/1.23	1.41/1.76	2.22/2.75	0.88/1.09	1.38/1.73	1.98/2.47	0.99/1.27	1.41/1.8	1.94/2.5
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7.24	7.99	7.99	8.86	8.86	8.86	10.63	10.63	10.63	12.4	12.4	12.4
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15.75/15.75	15.75/15.75	15.75/15.75	36.02/19.69	30/19.17	18.31/17.64	46.65/19.17	34.96/17.64	22.99/17.6	45.47/23.54	33.5/23.5	24.88/23.62
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	0.79			0.79			0.79			0.79	
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	8.99			12.36			12.36			12.36	
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4	4	5	5	5	5	5	5	5	5	5	5
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	110			154			243			243	
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350/720-600 350/720-840 350/720-1450 350/720-2300

174 / 145											
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51/59											
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11.1	11.3	15.7	13	14.8	23.1	14.8	23.1	27	23.1	27	30.6
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62/70	62/70	67/75	64/72	66/74	74/82	66/74	74/82	78/86	74/82	78/86	82/90
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0.08/0.07-19.84											
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16.55			16.55			17.13			17.36		
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22.77x6.59x7.45			23.39x6.59x7.45			25.07x6.59x7.45			27.1x6.59x7.45		
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-			22.44			44.8			60.39		
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-			22.44			44.8			60.39		
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The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
 Plastiscising rate depends on processing conditions and material employed.
 Electrical power supply refers to the standard configuration of the machine.

1) Standard/increased
 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
 3) First filling / operating
 4) The net weight of the machine may vary depending on equipment

Technical Data Systec 420/820-840...3300

Sumitomo (SHI) Demag

Model description
International size description

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ActiveDrive	[in ³ /s]
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Plasticizing rate (PS)

> Motor 1 (120 bar) activeDrive ¹⁾	[oz/s]
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> Motor 2 (120 bar) activeDrive ¹⁾	[oz/s]
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Max. screw stroke	[in]
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Max. distance of nozzle retraction ²⁾	[in]
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Max. nozzle dipping depth (WA650)	[in]
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Nozzle contact force	[Ton]
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Number of heating zones	
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Hopper capacity, optional	[lb]
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General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ActiveDrive	[~kW]
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> Barrel heating capacity	[~kW]
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> Capacity with ActiveDrive	[kW]
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Dry cycle time (Euro 6) activeDrive ¹⁾ [sec-in]	
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Net weight (without oil) ⁴⁾	[~Ton]
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Transport dimensions (l x w x h)	[~ft]
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Motor end projection 1 max. (h)	[in]
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Motor end projection 2 max. (h)	[in]
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Systec 420/820

420/820-840	420/820-1450	420/820-2300	420/820-3300
4200-840	4200-1450	4200-2300	4200-3300

420/820

472/519.2											
30.31											
14.96											
32.48/41.34											
62.8/71.65											
47.24x47.24											
32.28x32.28											
16.54											
6600/3800/5100											
9.06											
10.79/4.72											

840 1450 2300 3300

45	50	60	50	60	70	60	70	80	70	80	95
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
34838	28224	19595	35186	27630	20305	35186	27224	20842	35143	20842	19087
21.8	27	38.8	32.3	46.6	63.4	54.4	74	96.6	83.1	108.6	153.1
11.5	14.2	20.4	17	24.5	33.4	28.6	38.9	50.8	43.7	57.1	80.5

15.38/19.47	19.04/24.04	27.4/34.66	13.49/17.09	19.4/24.59	26.42/33.44	14.46/18.31	19.71/24.96	25.75/32.58	15.26/19.34	19.95/25.2	28.13/35.57
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1.41/1.73	2.01/2.47	3.1/3.88	1.41/1.76	2.22/2.75	3.14/3.91	1.38/1.73	1.98/2.47	2.79/3.42	1.41/1.73	1.94/2.29	3.14/3.88
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0.99/1.23	1.41/1.76	2.22/2.75	0.88/1.09	1.38/1.73	1.98/2.47	0.99/1.27	1.41/1.8	1.94/2.5	0.92/1.16	1.3/1.62	2.08/2.61
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8.86			11.02			12.4			13.94		
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36.61/20.47	30.59/19.96	18.9/18.43	47.44/19.96	35.75/18.43	23.78/18.39	45.47/24.33	33.5/24.29	24.88/24.41	38.58/26.77	38.58/26.77	24.13/24.13
-------------	-------------	------------	-------------	-------------	-------------	-------------	------------	-------------	-------------	-------------	-------------

0.79			0.79			0.79			0.79		
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12.36			12.36			12.36			12.36		
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5			5			5			6		
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154			243			243			243		
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420/820-840 420/820-1450 420/820-2300 420/820-3300

212 / 177											
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51/59											
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13	14.8	23.1	14.8	23.1	27	23.1	27	30.6	30.6	30.6	42.6
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64/72	66/74	74/82	66/74	74/82	78/86	74/82	78/86	82/90	82/90	82/90	94/102
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0.1/0.09-22.6											
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23.15			23.15			23.15			27.43		
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26.22x7.25x8.43			26.22x7.25x8.43			26.31x7.25x8.43			30.61x7.25x8.43		
-----------------	--	--	-----------------	--	--	-----------------	--	--	-----------------	--	--

-			16.26			31.06			65.75		
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-			16.26			31.06			65.75		
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The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
Plasticizing rate depends on processing conditions and material employed.
Electrical power supply refers to the standard configuration of the machine.

1) Standard/increased
2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
3) First filling / operating
4) The net weight of the machine may vary depending on equipment

Technical Data Systec 500/920-2300...6400

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov. / fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]

Plasticizing rate (PS, PE*) [oz/sec]

> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticizing rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

Systec 500/920

500/920-2300	500/920-3300	500/920-6400
5000-2300	5000-3300	5000-6400

500/920

561.9/618.09
33.46
15.75
36.22/45.28
69.69/78.74
51.18x51.18
36.22x36.22
16.54
8700/5200/6700
10.24
10.79/4.72

2300 3300 6400

2300			3300			6400		
60	70	80	70	80	95	80	95	110
standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	23	20	20	24	20	20
35099	27224	20842	35143	26905	19087	34679	27485	20494
54.4	74	96.6	83.1	108.6	153.1	145.7	205.5	275.4
28.6	38.9	50.8	43.7	57.1	80.5	76.6	108.1	144.9
15.1/18.5	20.6/25.2	26.9/32.9	19.5/27.4	25.5/35.8	35.9/50.4	24.8/29	35/40.9	46.9/54.8
77.6	89.2	98.1	89.2	98.1	121.1	98.1	121.1	139.2
40/49	58/70	81/98	50/81	69/113	111/182	65/76	104/122	151/176
0.99/1.23	1.45/1.76	2.01/2.43	1.16/1.62	1.62/2.29	2.61/3.67	1.52/1.76	2.43/2.82	3.49/4.09
2.96	3.07	3.28	3.7	4.55	5.47	4.66	6.21	6.6
	12.4			13.94			18.7	
48.82/30.16	36.85/30.12	28.23/28.23	42.13/28.66	42.13/28.66	27.68/27.68	43.31/27.87	43.31/27.87	25.87/25.87
	0.79			0.79			0.79	
	12.36			12.36			12.36	
	5			6			6	
				243				

500/920-2300 500/920-3300 500/920-6400

241 / 201								
45/55			55/75			75/90		
45/55			55/75			75/90		
47			76			90		
23	27	31	31	31	43	43	43	59
68/78	72/82	76/86	86/106	86/106	98/118	118/133	118/133	134/149
115/125	119/129	123/133	162/182	162/182	174/194	208/223	208/223	224/239
0.12/0.1-25.35			0.1/0.09-25.35			0.09/0.09-25.35		
21.41/6.02/27.43			21.41/7.52/28.93			21.41/9.14/30.55		
15.09x7.74x8.3 / 12.53x7.48x8.3 ⁶⁾			15.09x7.74x8.3 / 16.08x7.48/8.3 ⁶⁾			15.09x7.74x8.3 / 18.44x7.48x8.3 ⁶⁾		
17.87			19.69			47.13		
19.17			23.35			50		
24.09			30.51			41.73		

1) Standard/increased

2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

3) First filling / operating

4) standard/increased

5) The net weight of the machine may vary depending on equipment

6) CU-part/LU-part

Technical Data Systec 650/1020-3300...9500

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]

Plastizing rate (PS, PE*) [oz/sec]

> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

Systec 650/1020

650/1020-3300	650/1020-6400	650/1020-9500
6500-3300	6500-6400	6500-9500

650/1020

730.47/803.52		
36.61		
17.72		
40.16/49.21		
76.77/85.83		
57.09x57.87		
40.16x40.16		
19.69		
11200x6700x8600		
11.81		
16.74/8.54		

3300 6400 9500

3300			6400			9500		
70	80	95	80	95	110	95	110	130
standard	standard	standard	standard	standard	standard	standard	standard	standard
23	20	20	24	20	20	23	20	20
35143	26905	19087	34679	27485	20494	35302	26324	18855
83.1	108.6	153.1	145.7	205.5	275.4	237.9	319	445.4
43.7	57.1	80.5	76.6	108.1	144.9	125.1	167.7	234.3
27.4/31.9	35.8/41.7	50.4/58.8	24.8/29	35/40.9	46.9/54.8	31.8/38.9	42.7/52.1	59.6/72.7
89.2	98.1	121.1	98.1	121.1	139.2	121.1	139.2	170.1
69/81	97/113	156/182	65/76	104/122	151/176	80/98	116/141	164/200
1.62/1.9	2.29/2.68	3.67/4.3	1.52/1.76	2.43/2.82	3.49/4.09	1.9/2.33	2.75/3.35	3.88/4.76
3.7	4.55	5.47	4.66	6.21	6.6	6.42	7.87	7.51
	13.94			18.7			21.65	
45.47/32.28	45.47/32.28	31.02/31.02	43.31/28.15	43.31/28.15	25.87/25.87	52.76/31.5	52.76/31.5	29.65/29.65
	0.79			0.79			0.79	
	12.36			12.36			12.36	
6	6	6	6	6	6	6	6	7
243								

650/1020-3300 650/1020-6400 650/1020-9500

241 / 201			241 / 201			412 / 343		
75/90			75/90			90/110		
75/90			75/90			90/110		
76			90			115		
31	31	43	43	43	59	59	59	79
106/121	106/121	118/133	118/133	118/133	134/149	149/169	149/169	169/189
182/197	182/197	194/209	208/223	208/223	224/239	264/284	264/284	284/304
0.13/0.1/0.09-28.11			0.13/0.1-28.11			0.1/0.09-28.11		
32.29/7.52/39.81			32.29/9.14/41.43			32.29/11.57/43.86		
16.41x8.27x8.73 / 16.14x7.48x8.73 ⁶⁾			16.41x8.27x8.73 / 18.44x7.48x8.73 ⁶⁾			16.41x8.27x8.73 / 22.87x7.48x8.73 ⁶⁾		
19.49			46.93			25.47		
23.15			50			25.47		
30.31			41.54			23.39		

1) Standard/increased

2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

3) First filling / operating

4) standard/increased

5) The net weight of the machine may vary depending on equipment

6) CU-part/U-part

Technical Data Syste 800/1120-6400...9500

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamp Unit	
Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]
Max. rate of injection	
> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]
Plastizing rate (PS, PE*) [oz/sec]	
> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]
General data	
Oil tank capacity ³⁾	[gal]
Installed electrical rating	
> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ⁴⁾	[kW]
> Capacity with electr. drive	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
 Plastizing rate depends on processing conditions and material employed.
 Electrical power supply refers to the standard configuration of the machine.

Systec 800/1120					
800/1120-6400			800/1120-9500		
8000-6400			8000-9500		
800/1120					
899.04/988.94					
40.55					
19.69					
44.09/53.15					
84.65/93.7					
63.78x63.78					
44.09x44.09					
27.56					
14000/8400/10800					
13.78					
22.14/11.46					
6400			9500		
80	95	110	95	110	130
standard	standard	standard	standard	standard	standard
24	20	20	23	20	20
34679	27485	20494	35302	26324	18855
145.7	205.5	275.4	237.9	319	445.4
76.6	108.1	144.9	125.1	167.7	234.3
24.8/29					
35/40.9					
46.9/54.8					
31.8/38.9					
42.7/52.1					
59.6/72.7					
98.1					
121.1					
139.2					
121.1					
139.2					
170.1					
65/76					
104/122					
151/176					
80/98					
116/141					
164/200					
1.52/1.76					
2.43/2.82					
3.49/4.09					
1.9/2.33					
2.75/3.35					
3.88/4.76					
4.66					
6.21					
6.6					
6.42					
7.87					
7.48					
18.7					
21.65					
49.06/33.86					
49.06/33.86					
31.61/31.61					
55.12/33.86					
55.12/33.86					
32.01/32.01					
0.79					
0.79					
12.36					
12.36					
6					
6					
6					
6					
6					
7					
243					
800/1120-6400			800/1120-9500		
241 / 201			412 / 343		
75/90					
90/110					
75/90					
90/110					
90					
115					
43					
43					
59					
59					
59					
79					
118/133					
118/133					
134/149					
149/169					
149/169					
169/189					
208/223					
208/223					
224/239					
264/284					
264/284					
284/304					
0.15/0.13-30.87					
0.13/0.11-30.87					
43.54/9.14/52.68 ⁶⁾					
43.54/11.57/55.11 ⁶⁾					
18.24x8.27x9.09 / 18.34x7.48x9.09 ⁷⁾					
18.24x8.27x9.09 / 20.77x7.48x9.09 ⁷⁾					
46.93					
25.39					
49.76					
25.39					
41.5					
23.31					

1) Standard/increased
 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
 3) First filling / operating
 4) Standard/increased/WA109
 5) The net weight of the machine may vary depending on equipment
 6) CU/IU/total
 7) CU-part/IU-par

Technical Data Systec 1000/1400-6400...1000/1400-9500

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]

Plastizing rate (PS, PE*) [oz/sec]

> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

Systec 1000/1400

1000/1400-6400	1000/1400-9500
10000-6400	10000-9500

1000/1400

1123.8/1236.18
49.21
19.69/23.62 (Only valid for enlarged max. mould height)
47.24/59.06
96.46/108.27
76.77x65.75
55.12x44.09
37.4x29.53
16000/10700/10800
13.78
26.18/13.6

6400 9500

80	95	110	95	110	130
standard	standard	standard	standard	standard	standard
24	20	20	23	20	20
34519	26571	20494	35302	26324	18855
145.7	205.5	275.4	237.9	319	445.4
75.8	106.9	143.3	123.8	165.9	235.3
24.8/29	35/40.9	46.9/54.8	31.8/38.9	42.7/52.1	59.6/72.7
98.1	121.1	139.2	121.1	139.2	170.1
65/76	104/122	151/176	80/98	116/141	164/200
1.52/1.76	2.43/2.82	3.49/4.09	1.9/2.33	2.75/3.35	3.88/4.76
4.66	6.21	6.6	6.42	7.87	7.48
	18.7			21.65	
48.07/35.63	48.07/35.63	30.63/30.63	57.28/35.63	57.28/35.63	34.17/34.17
	0.79			0.79	
	12.36			12.36	
6	6	6	6	6	7
243					

1000/1400-6400 1000/1400-9500

241 / 201	412 / 343				
75/90	90/110				
75/90	90/110				
90	115				
43	59	59	79		
118/133	118/133	134/149	149/169	149/169	169/189
208/223	208/223	224/239	264/284	264/284	284/304
0.22/0.2-38.58			0.2/0.18-38.58		
63.8/9.14/72.94 ⁶⁾			63.8/11.57/75.37 ⁶⁾		
22.61x10.53x9.91 / 18.21x7.48x9.91 ⁷⁾			22.61x10.53x9.91 / 21.23x7.48x9.91 ⁷⁾		
44.53			26.18		
47.4			26.18		
39.13			24.09		

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

- 1) Standard/increased
- 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
- 3) First filling / operating
- 4) standard/increased
- 5) The net weight of the machine may vary depending on equipment
- 6) CU/IIU/total
- 7) CU-part/IIU-part

Technical Data Systec 1000/1400-11500...1000/1400-16000

Sumitomo (SHI) Demag

Model description
International size description

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]

Plasticizing rate (PS, PE*) [oz/sec]

> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

Systec 1000/1400

1000/1400-11500	1000/1400-16000
10000-11500	10000-16000

1000/1400

1123.8/1236.18
49.21
19.69/23.62 (Only valid for enlarged max. mould height)
47.24/59.06
96.46/108.27
76.77x65.75
55.12x44.09
37.4x29.53
1600/10700/10800
13.78
26.18/13.6

11500 16000

110	130	130	145
standard	standard	standard	standard
24	20	20	20
28587	20479	26237	21088
353.7	494.1	538.6	670.1
184	257	280.2	348.6
48/71.9	67/100.5	78.3/78.3	97/97.5
139.2	166	166	161.2
114/171	162/242	135/202	167/250
3.35/5.04	4.76/7.12	3.67/5.5	4.55/6.81
4.55	4.44	6.45	5.47
24.02		26.18	
33.86/-		33.86/-	
0.79		0.79	
12.36		12.36	
7		7	
243			

1000/1400-11500 1000/1400-16000

634 / 528			
110/165			
110/165			
115	147		
79	79	79	97
189/244	189/244	189/244	207/262
304/359	304/359	336/391	354/409
0.18/0.15-38.58			
63.8/18.05/81.85 ⁶⁾		63.8/23.15/86.94 ⁶⁾	
19.1x10.56x9.91 / 24.21x8.5x9.91 ⁷⁾			
-	-	-	-
-	-	-	2.76
-	-	-	1.5

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticizing rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

- 1) Standard/increased
- 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
- 3) First filling / operating
- 4) standard/increased
- 5) The net weight of the machine may vary depending on equipment
- 6) CU/IU/total
- 7) CU-part/IU-part

Technical Data Systec 1300/1500-9500

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamp Unit	
Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]
Max. rate of injection	
> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]
Plastizing rate (PS, PE*) [oz/sec]	
> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[-oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]
General data	
Oil tank capacity ³⁾	[gal]
Installed electrical rating	
> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

Systec 1300/1500		
1300/1500-9500		
13000-9500		
1300/1500		
1460.94/1607.03		
59.06		
27.56		
55.12/62.99		
114.17/122.05		
84.65x74.02		
59.06x49.21		
39.37x33.46		
21000/14000/14500		
13.78		
26.18/12.59		
9500		
95	110	130
standard	standard	standard
23	20	20
35302	26324	18855
237.9	319	445.4
123.8	131*	231.7
31.8/38.9	42.7/52.1	59.6/72.7
103.8	127.6	178.2
80/98	116/141	164/200
1.9/2.33	2.75/3.35	3.88/4.76
6.42	7.87	7.48
	21.65	
58.66/37.01	58.66/37.01	35.55/35.55
	1.77	
	12.36	
6	6	7
	243	
1300/1500-9500		
412 / 343		
	90/110	
	90/110	
	115	
59.3	59.3	79.1
149/169	149/169	169/189
264/284	264/284	284/304
	0.34/0.26-41.34	
	77.54/11.57/89.11 ⁶⁾	
	26.54x11.19x9.81 / 21.16x7.51x9.81 ⁷⁾	
	25.39	
	25.39	
	23.31	

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticizing rate may vary depending on process parameter and material properties.

Electrical power supply refers to the standard configuration of the machine.

- 1) Standard/increased
- 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
- 3) First filling / operating
- 4) standard/increased
- 5) The net weight of the machine may vary depending on equipment
- 6) CU/IU/total
- 7) CU-part/IU-part

Technical Data Systec 1300/1500-11500...16000

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ¹⁾	[in³/s]
> With accumulator	[in³/s]

Plastizing rate (PS, PE*) [oz/sec]

> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
---------------------------------	-------

Installed electrical rating

> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

Systec 1300/1500

1300/1500-11500	1300/1500-16000
13000-11500	13000-16000

1300/1500

1460.94/1607.03
59.06
27.56
55.12/62.99
114.17/122.05
84.65x74.02
59.06x49.21
39.37x33.46
21000/14000/14500
13.78
26.18/12.59

11500 16000

110	130	130	145
standard	standard	standard	standard
24	20	20	20
28587	20479	26237	21088
353.7	494.1	538.6	670.1
184	257	280.2	348.6
48/71.9	67/100.5	52.2/78.3	65/97.5
139.2	178.2	164.8	161.2
114/171	162/242	135/202	167/250
3.35/5.04	4.76/7.12	3.67/5.5	4.55/6.81
4.55	4.44	6.45	5.47
24.02		26.18	
33.86/33.86		33.86/33.86	
1.77		1.77	
12.36		12.36	
7		7	
243		243	

1300/1500-11500 1300/1500-16000

634 / 528			
110/165			
110/165			
115	147		
79.1	79.1	79.1	97.2
189/244	189/244	189/244	207/262
304/359	304/359	336/391	354/409
0.26/0.19-41.34			
77.54/18.05/95.6 ⁶⁾	77.54/23.15/100.69 ⁶⁾		
26.54x11.19x9.81 / 20.51x8.46x9.81 ⁷⁾			
-	-	-	1.38
-	-	-	-

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plasticising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

- 1) Standard/increased
- 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
- 3) First filling / operating
- 4) standard/increased
- 5) The net weight of the machine may vary depending on equipment
- 6) CU/IU/total
- 7) CU-part/IU-part

Technical Data Systec 1500/1500-11500...16000

Sumitomo (SHI) Demag

Model description	
International size description	

Clamp Unit

Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]

Injection unit

Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in³]
Max. shot weight (PS, PE*)	[oz]

Max. rate of injection

> Without accumulator ¹⁾	[in³/s]
> With accumulator	[in³/s]

Plastizising rate (PS, PE*) [oz/sec]

> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 (120 bar) ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]

Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]

General data

Oil tank capacity ³⁾	[gal]
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Installed electrical rating

> Pump ¹⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ⁴⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h)	[~ft]
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

Systec 1500/1500

1500/1500 - 11500	1500/1500 - 16000
15000-11500	15000-16000

1500/1500

1685.7/1854.27
59.06
27.56
55.12/62.99
114.17/122.05
84.65x74.02
59.06x49.21
39.37x33.46
21000/14000/14500
13.78
26.18/13.71

11500 16000

110	130	130	145
standard	standard	standard	standard
24	20	20	20
28587	20479	26237	21088
353.7	494.1	538.6	88.7
184	257	280.2	348.6
48/71.9	67/100.5	52.2/78.3	65/97.5
139.2	178.2	164.8	161.2
114/171	162/242	135/202	167/250
3.35/5.04	4.76/7.12	3.67/5.5	4.55/6.81
4.55	4.44	6.45	5.47
24.02		26.18	
		36.61	
		1.77	
		12.36	
		7	
243		243	

1500/1500-11500 1500/1500-16000

634 / 528			
110/165			
110/165			
115	147		
79.1	79.1	79.1	97.2
189/244	189/244	189/244	207/262
304/359	304/359	336/391	354/409
0.26/0.19-41.34			
89.92/18.05/107.98 ⁶⁾		89.92/23.15/113.07 ⁶⁾	
25.92x11.19x9.81 / 21.85x8.46x9.81 ⁷⁾			
-	-	-	1.38
-	-	-	-

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.
 Plastizising rate depends on processing conditions and material employed.
 Electrical power supply refers to the standard configuration of the machine.

1) Standard/increased
 2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles
 3) First filling / operating
 4) standard/increased
 5) The net weight of the machine may vary depending on equipment
 6) CU/IU/total
 7) CU-part/IU-part

Technical Data Systec 2000/1800-11500...16000

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamp Unit	
Clamp force / Locking force	[Ton]
Clamp stroke, max.	[in]
Mold height, min./WA211	[in]
Mold height, max. (std./opt.)	[in]
Open Daylight, max. (std./enl.)	[in]
Platen size (h x v)	[in]
Distance between tie bars (h x v)	[in]
Min. permissible mold diameter (k)	[in]
Max mould weight / mov./ fixed	[kg]
Ejection stroke	[in]
Ejection force / Retraction force	[Ton]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[psi]
Cylinder head volume, max.	[in ³]
Max. shot weight (PS, PE*)	[oz]
Max. rate of injection	
> Without accumulator ¹⁾	[in ³ /s]
> With accumulator	[in ³ /s]
Plastizing rate (PS, PE*) [oz/sec]	
> Motor 1 (120 bar) ¹⁾	[oz/s]
> Motor 2 increased torque ¹⁾	[oz/s]
> Electric screw drive (PS/PE*)	[~oz/s]
Max. screw stroke	[in]
Max. distance of nozzle retraction ²⁾	[in]
Max. nozzle dipping depth (WA650)	[in]
Nozzle contact force	[Ton]
Number of heating zones	
Hopper capacity, optional	[lb]
General data	
Oil tank capacity ³⁾	[gal]
Installed electrical rating	
> Pump	[~kW]
> Electric screw drive (WA313)	[~kW]
> Barrel heating capacity	[~kW]
> Capacity with hydraulic drive ⁴⁾	[kW]
> Capacity with electr. drive	[kW]
Dry cycle time (Euromap 6) ¹⁾	[sec-in]
Net weight (without oil) ⁵⁾	[~Ton]
Transport dimensions (l x w x h) [~ft]	
Motor end projection 1 max. (h)	[in]
Motor end projection 2 max. (h)	[in]
Electric drive projection max. (h)	[in]

Systec 2000/1800			
Systec 2000/1800-11500		Systec 2000/1800-16000	
20000-11500		20000-16000	
2000/1800			
		2247.6/2359.98	
		64.96	
		35.43	
		62.99/70.87	
		127.95/135.83	
		100.79x85.04	
		70.87x59.06	
		47.24x33.86	
		27000/18000/18500	
		17.72	
		42.93/26.18	
11500		16000	
110	130	130	145
standard	standard	standard	standard
24	20	20	20
28587	20479	26237	21088
353.7	494.1	538.6	670.1
184	257	280.2	348.6
71.94/71.94	100.5/100.5	78.35/78.35	97.51/97.51
139.2	178.2	164.8	161.2
6.03/6.03	8.54/8.54	7.12/7.12	8.82/8.82
5.04/5.04	7.12/7.12	5.5/5.5	6.81/6.81
4.55	4.44	6.45	5.47
	24.02		26.18
	37.4/37.4		37.4/37.4
	1.77		1.77
	12.36		12.36
7	7	7	7
		243	
2000/1800-11500		2000/1800-16000	
		634 / 528	
		165/165	
	115		147
79.1	79.1	79.1	97.2
244/244	244/244	244/244	262/262
359/359	359/359	359/391	409/409
		0.3/0.3-49.61	
	115.73/18.05/133.79 ⁶⁾		115.73/23.15/138.88 ⁶⁾
	29.33x12.47x10.27/20.93x8.46x10.27 ⁷⁾		
-	-	-	-
-	-	-	2.17
-	-	-	0.91

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plastising rate depends on processing conditions and material employed.

Electrical power supply refers to the standard configuration of the machine.

1) Standard/twin pump

2) Only valid for open nozzles (WA650). Carriage travel is shortened with shut-off or extended nozzles

3) First filling / operating

4) Standard/increased/WA109

5) The net weight of the machine may vary depending on equipment

6) CU/IU/total

7) CU-part/IU-part

Equipment Systec 350...4.200 kN

Clamping unit	35...120	160...210	280...420
1 - Short-lengtht units with fully hydraulic clamping system with two clamp cylinders and a volume multiplier for fast machine cycles and low energy consumption	●	-	-
2 - Short-lengtht 5-point double toggle clamping unit	-	●	●
22 - Ejector coupling to DPG	●	●	●
24 - Tie bars of clamping unit chromed	●	●	●
27 - Upper tiebar on non-operator side retractable	-	-	-
41 - Central ejector with multi-stroke and stroke, pressure and speed programmable	●	●	●
43 - Short/long stroke ejector	●	●	●
47 - Two-stage adjustable clamp force	●	-	-
94 - Five-stagedmould clamping- and four-staged mould-opening sequence	●	●	●
204 - Mould mounting dimensions in accordance to Euromap, without side ejector plate	●	●	●
205 - Mould mounting dimensions in accordance to Euromap, with side ejector plate	-	○	○
207 - Mould mounting dimensions similar to SPI	○	○	○
208 - Mould mounting dimensions U (universal; similar to Euromap, additionally two through-holes) with side ejector plate (up to CU 120)	○	-	-
2091 - Mould mounting dimensions similar to JIS	○	○	○
210 - Standard mould height	●	●	●
211 - Extended mould height	○	○	○
215 - Mould and ejector movements only when safety gate closed	●	●	●
2171 - Operating when safety gate is open on non-operator side	○	○	○
218 - Ejector pressure and speed programmable for serial operation with mould movement	●	●	●
219 - Ejector programmable for simultaneous operation with mould movement	○	○	○
224ff - 1-2 pneumatik 5/2 directional valves, mounted to moving or fixed platen and freely programmable	○	○	○
228 - Central service unit for pneumatic valves	○	○	○
229ff - Core puller with 1-4 circuits over proportional or on/off- valve on mov. platen; Q-independent programmable; with unlockable check-valves against core-moving; incl. Manual pressure relief for core-puller 1-4 circuits over one common valve	○	○	○
237 - Additional ports for 2 core pullers on fixed mould platen	○	○	○
240 - Automatic safety gate on operator side	○	○	○
242 - Cover widened on non-operator side	○	○	○
243 - Blow through for mould cooling lines; manual	○	○	○
249 - Cooling water controller 4 circuits with temperature gauge	●	●	●
250 - Cooling water controller 8 circuits with temperature gauge	○	○	○
244 - Cooling water controller 12 circuits with temperature gauge	-	○	○
252 - Shut-off mould cooling, time programmable	●	●	●
282+283 - Pneumatik core puller 1 or 2-circuit via b/w valve on the movable platen including tubing	○	○	○
261 - Automatic mould height adjustment	●	●	●
18 - Moving platen supported by linear guides on machine base	●	●	●
264 - Manual clamping mechanism for tiebar retraction	-	○	○

Clamping unit	35...120	160...210	280...420
265 - Automatic tiebar retraction, upper tiebar on non-operator side	-	○	○
266ff - Hot runner control (number of zones depending on machine size, max. 24)	○	○	○
275 - Hydraulic control for hot runner nozzles	○	○	○
280 - Automatic central oil lubrication for toggle	-	●	●
290 - Clamp force control with indication	●	●	●
293 - activeQ: Active mould safety via sensor with mould movement	○	○	○
295 - Additional manual adjustable control button mould-open-position	-	○	○
299 - Central grease lubrication manual	○	○	○

Injection unit	35...120	160...210	280...420
Barrel adaptable for 3 injection units	●	●	●
92 - Regulated parameter for injection speed, pressure, ram pressure and screw speed programmable via profile	●	●	●
300 - Injection unit horizontal	●	●	●
302ff - Injection unit horizontal or vertical in seperating level or in backpack-position	-	-	-
310 - Hydraulic screw motor for high screw speeds (rpm) (motorI)	●	●	●
311 - Hydraulic screw motor for high torque (Motor II)	○	○	○
313 - Electrical screw motor, frequency-controlled	-	-	-
320 - Hopper	○	○	○
322 - Hopper shutoff with emptying capability (with drill pattern for material conveyor)	●	●	●
341 - Temperature of funnel-zone-cooling regulated; maximum temperature 90°C tolerance	●	●	●
350 - Holding pressure switchover depending on hydraulic pressure with maximum value recording and pressure recording	●	●	●
352ff - Holding pressure switchover depending on cavity pressure with pressure recording for 1, 2, 4 pressure taker	○	○	○
357 - Holding pressure switchover over extern exit	○	○	○
355 - Back pressure programmable over screw-back stroke, polygon over 6 stabilisation points	●	●	●
361 - fast injection with accumulator; programmable	-	-	-
365 - Injection with regular pump, p+v regulated (closed loop)	●	●	●
131 - Injection, holding pressure and back pressure regulated over servo valve	○	○	○
370 - Melt temperature measuring (only for open nozzles)	○	○	○
380 - Nozzle sealing force with closed mould, programmable	●	●	●
385 - Nozzle system residual pressure with open mould, programmable	●	●	●
386 - Nozzle movement parallel to closing movement	○	○	○
387 - Screw position-controlled	-	-	-
390 - Full guarding on injection unit operator side	○	-	-

Electronics	35...120	160...210	280...420
110 - Supply voltage 400 V+-10 %/ 50 Hz; 3 Ph + N + PE	●	●	●
111-117 - Specific national supply voltage	○	○	○

● Basic equipment

○ Additional price

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Electronics	35...120	160...210	280...420
120 - Joint power supply for drive and heating	●	●	●
121 - Separate power supply for both drive and heating	○	○	○
160 - Single-phase 230 V/50 Hz/ 10 A socket in specific national version, defeatable over main switch	●	●	●
1601 - Socket CEE 3Ph/400V/16A, defeatable over main switch	○	○	○
1602 - Socket CEE 3Ph/400V/32A, defeatable over main switch	-	○	○
161ff - Socket combination integrated, country-specific	○	○	○
186 - Digital and wearfree stroke measuring system ultrasonic, respectively high-resolution rotary sensors for injection and injection unit movement, clamp and ejector movement	●	●	●
4921 - Integrated measuring of energy consumption and the costs per piece (activeEcon)	○	○	○

Functions	35...120	160...210	280...420
412 - Sequential stamping control	○	○	○
413 - Simultaneous stamping control	-	-	-
420 - Process data entry (PDE) with 100 % monitoring and statistics with graphics for of process parameters	●	●	●
421 - Extended intern saving option for PDE-data, mould-records and journal entry	○	○	○
422 - Overlay of parameters of consecutive cycles in multiple graphs on one screen for a convenient evaluation of the process stability	●	●	●
424 - Pallet control; uses 2 separate to ordering programmable input/output	-	-	-
425 - Storing program for extern storage of statistic data	●	●	●
427 - Temperatur reduction over switchpoint with timing in manual mode activatable	●	●	●
428 - Dry cycle without heat via program switch	●	●	●
429 - Preselection part counter for startup reject parts after every break of automatic-mode	●	●	●
430 - Start up program in 3 stages; including back pressure	○	○	○
440 - Switch-on program / switch-off program with purging	○	○	○
442 - switch-on program / switch-off program without purging	-	-	-
443 - switch-on program / switch-off program with ontime purging	-	-	-
445 - Flexible movement sequence for the injection unit without/with multiple movements from ejector and core pullers	○	○	○
446 - Flexible movement of the injection unit	○	○	○
460 -Printer program for automatic printing of screens, change report, alarms, and process data	○	○	○
461 - Change reason	●	●	●
462 - Event journal	○	○	○
471 - factory data capture integrated in machine control	○	○	○
480 - Help function; integrated control indication over control	●	●	●
481 - Additional operating language	○	○	○
485 - Ergostart, integrated basic setting Program	-	-	-
486 - Ergosupport: program for faster fault recognition on basic setting/process optimisation and for extended monitoring of process sequence and deviations	○	○	○

● Basic equipment

○ Additional price

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Functions	35...120	160...210	280...420
488 - Service page	●	●	●
489 - Analysis of cycle time	○	○	○
493 - Two freely programmable sides	●	●	●
494 - Additional two freely programmable sides	●	●	●
495 - Integration of extern user interfaces in operator panel with VNC-client (Active Remote)	○	○	○

Interfaces	35...120	160...210	280...420
450 - Inputs / outputs freely programmable; 3 inputs and 3 outputs	○	○	○
454 - Inputs / outputs freely programmable; 6 inputs and 6 outputs	○	○	○
510 - Socket for second nozzle heater band	○	○	○
523 - 50-pin handling device interface conf. to Euromap 67 (VDMA)	○	○	○
529 - Interface for handling device, version Asia	-	-	-
528 - Adapter cable for Euromap 67 (50-pole) to Euromap 12 (32-pole) and SPI AN-116 (32-pole)	○	○	○
532 - Additional controller nozzle 1 circuit	○	○	○
540 - Interfaces for ejector limit switch in mould, side action with LS and product detection	○	○	○
541 - Interface for mould protection (ejector plate safety)	●	●	●
542 - Interface for component ejection monitoring	○	○	○
544 - Interface for mould safety, side core safety mechanism	○	○	○
546 - Interface for screw-back unit	○	○	○
555 - Interface for mould temperature indication, 2 circuits	○	○	○
552 - CAN-Bus interface for temperature controllers (2 or 4 circuits), Demag-specific signal	○	○	○
556 - 20 mA interface (TTY-V24) for up to 6 units temperature controllers	○	○	○
562 - Interface machine status	○	○	○
563 - Data interface for main computer systems to Euromap 63 and SPI AN-142	○	○	○
571 - WC5 - DPG World Connect; Remote maintenance and control of the machine	●	●	●

General	35...120	160...210	280...420
10 - Injection moulding machine with CE-declaration of conformity (without periphery and automation), safety devices according to EN201 USA: machine and safety devices according to ANSI	●	●	●
14 - Oil pre-heating	●	●	●
13 - Oil temperatur regulated with temperatur indicator	●	●	●
15 - Ports for external oil cleaning	●	●	●
17 - Two staged filter control	●	●	●
23 - Clamp force adjustable at Ergocontrol control, including indication of actual valve	●	●	●
50 - Interface for handling device, mechanical according to VDMA 24466/Euromap 18	●	●	●
52 - Fault indication: free allocable output	-	-	-
67 - DPG-Interface mechanic (drilling pattern) for material conveyer	●	●	●
71 - USB-Device	●	●	●
80 - Interface for extern printer (hardcopy)	●	●	●
95 - Machine setup modus (reduced speed)	●	●	●

General	35...120	160...210	280...420
96 - Alarm management (alarms + indications)	●	●	●
97 - Setpoint entry switch-over to physical values (bar, cm ³ , mm/s)	●	●	●
98 - Process control	●	●	●
105 - Pump driving input I	●	●	●
106 - Pump driving input II, increased	○	○	○
109 - Pump combination for parallel movement CU	-	-	-
122 - Increase of machine bed of 100 mm	○	○	○
123 - Kill switch on operator side	○	●	●
126 - Data display colored	●	●	●
135 - Oil cooling (cooling water supply up to 25°C)	-	-	-
136 - Oil cooling unit with increased cooling capacity	●	●	●
137 - Integrated oil cleaning unit for microfibre bypass filtration	●	●	●
138 - Water supply for mould - and machine-cooling together	○	○	○
139 - Water supply for mould- and machine-cooling separated	●	●	●
170 - Fault indication by flashing lamp	●	●	●
171 - Fault indication by acoustic alarm	○	○	○
180 - Anti-vibration mounts	●	●	●
705 - QS-switch with control; 2 directions	○	○	-
742 - Connection of the mould cooling up to the clamping plates	○	○	○
790 - Integrated printer including driver software	○	○	○
802 - ErgoCheck: Dokumentation of machine operative readiness locally	○	○	○
870 - PC-program for visualisation mould records	○	○	○
1091/1092 - Speed-controlled energy saving pump (activeDrive)	○	●	●

Plastification	35...120	160...210	280...420
60 - Cylinder change manual	●	●	●
61 - Central connector for cylinder heating and thermo sensor	●	●	●
68 - Operating range of screw cylinder up to 400°C	●	●	●
65 - Each temperature control circuit with setpoint deviation control and thermocouple break protection; barrel operating temperatures up to 450°C, with pressure limitation above 400°C	●	●	●
66 - Fast cylinder change with main plugs für heating and thermo indicator and with automatic cylinder detection	●	●	●
601 - Energy-saving thermal insulation of the plasticizing	○	○	○
610 - Wear and corrosion resistant universal thermoplastic screw, nitrided barrel	●	●	●
611ff - High-performance plastication unit; customised	○	○	○
640 - Flow back barrier, three-part ring-version	●	●	●
642 - Flow back barrier, ball-version	○	○	○
650 - Open nozzle	●	●	●
665 - Pneumatic shut off nozzle incl. control	○	○	○

Equipment Systec 5.000...20.000 kN

Clamping unit	500...800	1.000...2.000
2 - Short-lengtht 5-point double toggle clamping unit	●	●
22 - Ejector coupling to DPG	●	●
24 - Tie bars of clamping unit chromed	●	●
27 - Upper tiebar on non-operator side retractable	-	-
41 - Central ejector with multi-stroke and stroke, pressure and speed programmable	●	●
43 - Short/long stroke ejector	●	●
94 - Five-stagedmould clamping- and four-staged mould-opening sequence	●	●
204 - Mould mounting dimensions in accordance to Euromap, without side ejector plate	●	●
205 - Mould mounting dimensions in accordance to Euromap, with side ejector plate	○	○
207 - Mould mounting dimensions similar to SPI	○	○
2091 - Mould mounting dimensions similar to JIS	○	○
210 - Standard mould height	●	●
211 - Extended mould height	○	○
215 - Mould and ejector movements only when safety gate closed	●	●
2171 - Operating when safety gate is open on non-operator side	○	○
219 - Ejector programmable for simultaneous operation with mould movement	●	●
224ff - 1-2 pneumatik 5/2 directional valves, mounted to moving or fixed platen and freely programmable	○	○
228 - Central service unit for pneumatic valves	○	○
229ff - Core puller with 1-6 circuits over proportional valve on mov. platen; Q-independent programmable; with unlockable check-valves against core-moving; incl. Manual pressure relief for core-puller 1-6 circuits on movable platen over one common valve	○	○
237 - Additional ports for 2 core pullers on fixed mould platen	○	○
240 - Automatic safety gate on operator side	○	○
242 - Cover widened on non-operator side	○	○
243 - Blow through for mould cooling lines; manual	○	○
249 - Cooling water controller 4 circuits with temperature gauge	●	●
250 - Cooling water controller 8 circuits with temperature gauge	○	○
244 - Cooling water controller 12 circuits with temperature gauge	○	○
252 - Shut-off mould cooling, time programmable	●	●
282+283 - Pneumatical core puller 1 or 2-circuit via b/w valve on the movable platen including tubing	○	○
261 - Automatic mould height adjustment	○	○
18 - Moving platen supported by linear guides on machine base	●	-
262 - Moving platen supported by roller guides on machine base	-	●
264 - Manual clamping mechanism for tiebar retraction	○	○
265 - Automatic tiebar retraction, upper tiebar on non-operator side	○	○
266ff - Hot runner control (number of zones depending on machine size, max. 24)	○	○
275 - Hydraulic control for hot runner nozzles	○	○
276 - Pneumatic hot runner shut off control; 1x 5/2 directional valve	○	○
280 - Automatic central oil lubrication for toggle	●	●
290 - Clamp force control with indication	●	●
293 - activeQ: Active mould safety via sensor with mould movement	○	○
295 - Additional manual adjustable control button mould-open-position	○	○
299 - Central grease lubrication manual	●	●

● Basic equipment

○ Additional price

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Clamping unit		
Barrel adaptable for 3 or 4 injection units	●	●
92 - Regulated parameter for injection speed, pressure, ram pressure and screw speed programmable via profile	●	●
300 - Injection unit horizontal	●	●
310 - Hydraulic screw motor for high screw speeds (rpm) (motorl)	●	●
311 - Hydraulic screw motor for high torque (Motor II)	○	○
313 - Electrical screw motor, frequency-controlled	○	○
320 - Hopper	○	○
322 - Hopper shutoff with emptying capability (with drill pattern for material conveyer)	●	●
341 - Temperature of funnel-zone-cooling regulated; maximum temperature 90°C tolerance	●	●
350 - Holding pressure switchover depending on hydraulic pressure with maximum value recording and pressure recording	●	●
352ff - Holding pressure switchover depending on cavity pressure with pressure recording for 1, 2, 4 pressure taker	○	○
357 - Holding pressure switchover over extern exit	○	○
355 - Back pressure programmable over screw-back stroke, polygon over 6 stabilisation points	●	●
361 - fast injection with accumulator; programmable	○	○
131 - Injection, holding pressure and back pressure regulated over servo valve	●	●
370 - Melt temperature measuring (only for open nozzles)	○	○
380 - Nozzle sealing force with closed mould, programmable	●	●
385 - Nozzle system residual pressure with open mould, programmable	●	●
386 - Nozzle movement parallel to closing movement	●	●
387 - Screw position-controlled	○	○

Electronics	500...800	1.000...2.000
110 - Supply voltage 400 V+/-10 %/ 50 Hz; 3 Ph + N + PE	●	●
111-117 - Specific national supply voltage	○	○
121 - Separate power supply for both drive and heating	●	●
160 - Single-phase 230 V/50 Hz/ 10 A socket in specific national version, defeatable over main switch	●	●
1601 - Socket CEE 3Ph/400V/16A, defeatable over main switch	○	○
1602 - Socket CEE 3Ph/400V/32A, defeatable over main switch	○	○
161ff - Socket combination integrated, country-specific	○	○
186 - Digital and wearfree stroke measuring system ultrasonic, respectively high-resolution rotary sensors for injection and injection unit movement, clamp and ejector movement	●	●
4921 - Integrated mesuring of energy consumption and the costs per piece (activeEcon)	○	○

Functions	500...800	1.000...2.000
412 - Sequential stamping control	○	○
413 - Simultaneous stamping control	○	○
420 - Process data entry (PDE) with 100 % monitoring and statistics with graphics for of process parameters	●	●
421 - Extended intern saving option for PDE-data, mould-records and journal entry	○	○
422 - Overlay of parameters of consecutive cycles in multiple graphs on one screen for a convenient evaluation of the process stability	●	●
424 - Pallet control; uses 2 seperate to ordering programmable input/output	-	-

Functions	500...800	1.000...2.000
425 - Storing program for extern storage of statistic data	●	●
427 - Temperatur reduction over switchpoint with timing in manual mode activatable	●	●
428 - Dry cycle without heat via program switch	●	●
429 - Preselection part counter forstartup reject parts after every break of automatic-mode	●	●
430 - Start up program in 3 stages; including back pressure	○	○
440 - Switch-on program / switch-off program with purging	●	●
442 - switch-on program / switch-off program without purging	-	-
443 - switch-on program / switch-off program with ontime purging	-	-
445 - Flexible movement sequence for the injection unit without/with multiple movements from ejector and core pullers	○	○
446 - Flexible movement of the injection unit	○	○
460 -Printer program for automatic printing of screens, change report, alarms, and process data	○	○
461 - Change reason	●	●
462 - Event journal	○	○
471 - factory data capture integrated in machine control	○	○
480 - Help function; integrated control indication over control	●	●
481 - Additional operating language	○	○
485 - Ergostart, integrated basic setting Program	-	-
486 - Ergosupport: program for faster fault recognition on basic setting/process optimisation and for extended monitoring of process sequence and deviations	○	○
488 - Service page	●	●
489 - Analysis of cycle time	○	○
493 - Two freely programmable sides	●	●
494 - Additional two freely programmable sides	●	●
495 - Integration of extern user interfaces in operator panel with VNC-client (Active Remote)	○	○

Interfaces	500...800	1.000...2.000
450 - Inputs / outputs freely programmable; 3 inputs and 3 outputs	○	○
454 - Inputs / outputs freely programmable; 6 inputs and 6 outputs	○	○
510 - Socket for second nozzle heater band	○	○
523 - 50-pin handling device interface conf. to Euromap 67 (VDMA)	○	○
528 - Adapter cable for Euromap 67 (50-pole) to Euromap 12 (32-pole) and SPI AN-116 (32-pole)	○	○
532 - Additional controller nozzle 1 circuit	○	○
540 - Interfaces for ejector limit switch in mould, side action with LS and product detection	○	○
541 - Interface for mould protection (ejector plate safety)	●	●
542 - Interface for component ejection monitoring	○	○
544 - Interface for mould safety, side core safety mechanism	○	○
546 - Interface for screw-back unit	○	○
555 - Interface for mould temperature indication, 2 circuits	○	○
552 - CAN-Bus interface for temperature controllers (2 or 4 circuits), Demag-specific signal	○	○
556 - 20 mA interface (TTY-V24) for up to 6 units temperature controllers	○	○
562 - Interface machine status	○	○
563 - Data interface for main computer systems to Euromap 63 and SPI AN-142	○	○

Interfaces	500...800	1.000...2.000
571 - WC5 - DPG World Connect; Remote maintenance and control of the machine	●	●

General	500...800	1.000...2.000
10 - Injection moulding machine with CE-declaration of conformity (without periphery and automation), safety devices according to EN201 USA: machine and safety devices according to ANSI	●	●
14 - Oil pre-heating	●	●
13 - Oil temperatur regulated with temperatur indicator	●	●
15 - Ports for external oil cleaning	●	●
17 - Two staged filter control	●	●
23 - Clamp force adjustable at Ergocontrol control, including indication of actual valve	●	●
50 - Interface for handling device, mechanical according to VDMA 24466/Euromap 18	●	●
52 - Fault indication: free allocable output	-	-
67 - DPG-Interface mechanic (drilling pattern) for material conveyor	●	●
71 - USB-Device	●	●
80 - Interface for extern printer (hardcopy)	●	●
95 - Machine setup modus (reduced speed)	●	●
97 - Setpoint entry switch-over to physical values (bar, cm ³ , mm/s)	●	●
98 - Process control	●	●
123 - Kill switch on operator side	●	●
126 - Data display colored	●	●
135 - Oil cooling (cooling water supply up to 25°C)	●	●
136 - Oil cooling unit with increased cooling capacity	○	○
137 - Integrated oil cleaning unit for microfibre bypass filtration	●	●
138 - Water supply for mould - and machine-cooling together	○	○
139 - Water supply for mould- and machine-cooling seperated	●	●
170 - Fault indication by flashing lamp	●	●
171 - Fault indication by acoustic alarm	○	○
180 - Anti-vibration mounts	●	●
790 - Integrated printer including driver software	○	○
802 - ErgoCheck: Dokumentation of machine operative readiness locally	○	○
870 - PC-program for visualisation mould records	○	○
1091/1092 - Speed-controlled energy saving pump (activeDrive)	○	○

Plastification	500...800	1.000...2.000
60 - Cylinder change manual	●	●
61 - Central connector for cylinder heating and thermo sensor	●	●
69 - 6 regulated sleeve-heating zones and 1 regulated nozzle heating zone (heating tape ceramic/nozzle heating tape Mica)	●	●
68 - Operating range of screw cylinder up to 400°C	●	●
65 - Each temperature control circuit with setpoint deviation control and thermocouple break protection; barrel operating temperatures up to 450°C, with pressure limitation above 400°C	●	●
66 - Fast cylinder change with main plugs für heating and thermo indicator and with automatic cylinder detection	●	●
601 - Energy-saving thermal insulation of the plasticizing	○	○
611 - Wear-free screw; bi-metal cylinder	●	●
640 - Flow back barrier, three-part ring-version	●	●
642 - Flow back barrier, ball-version	○	○

● Basic equipment

○ Additional price

The shown specifications reflect the state at the time of printing and refer to the standard configuration. We reserve the right to modify specifications.

Plastification	500...800	1.000...2.000
650 - Open nozzle	●	●

All data and information in this prospectus have been compiled with great care. However, we are unable to guarantee its correctness. Furthermore we indicate that individual illustrations and information may deviate from the actual delivery condition of the machine.

Practical values of the melt correction factor for use in the calculation of shot weight for some common plastics.	
Material	Melt correction factor
HD-PE	0.75
LD-PE	0.73
PP	0.73
PS	0.91
SB	0.91
ABS	0.91
SAN	0.91
PA	0.93
PA 6 +30 % GF	1.14
PC	0.97
PC/ABS	0.94
PMMA	0.97
POM	1.15
PET	1.08
PBT	1.08
CA	1.03
CAB	0.98
PVC-w	1.05
PVC-h	1.15
shot weight = melt correction factor x swept volume	
The melt correction factor takes into account the change in volume at process temperature and also includes a factor for the flow characteristics of the shut off device on the end of the screw.	

Certified according to VDA 6.4

NOTE: Specifications subject to change without notice.



sumitomo-shi-demag.us
Toll-free: 866-491-1045

1266 Oakbrook Drive, Norcross, GA 30093

11792 Alameda Drive, Strongsville, OH 44149