

SYSTEC Hydraulic Series

Detailed Specifications
METRIC UNITS



Technical Data Systec 35/320

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. platen	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar)	[g/s]
> Motor 2 (120 bar)	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ¹⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ²⁾	[ltr.]
Installed electrical rating	
> Pump	[~kW]
> Heating capacity of screw cylinder ³⁾	[~kW]
> Capacity	
Dry cycle time (Euromap 6)	[s-mm]
Net weight (without oil) ⁴⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Screw drive overhang standard max. (h)	[mm]

6 VMF								
35/320-35			35/320-120			35/320-200		
350-35			350-120			350-200		
35/320								
350/350								
350								
180/230/280								
530/580/630								
460x450								
320x320								
160								
440/330								
100								
33/13								
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
2755	2346	1570	2591	2006	1393	2800	1995	1466
14	23	34	42	61	88	61	106	144
12	20	30	37	54	78	54	94	128
37	61	92	56	72	103	50	72	98
1,4	5	8,5	7	11	19	9	15	20
1,1	4	7	5	9	15	7	12	16
90	90	90	110	125	125	125	150	150
				250				
	30			40			40	
				60				
				4				
				35				
35/320-35			35/320-120			35/320-200		
			145					
			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
			2,0-224					
2620			2630			2630		
			3,17x1,25x2,01					
-	-	-	-	-	70	-	70	214

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) Parallel movement of all axis possible

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

Technical Data Systec 50/370

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. platen	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator	[cm ³ /s]
> Without accumulator ActiveDrive	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar)	[g/s]
> Motor 2 (120 bar)	[g/s]
> Motor 1 (120 bar) activeDrive	[g/s]
> Motor 2 (120 bar) activeDrive	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump	[~kW]
> Pump ActiveDrive	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[s-mm]
Dry cycle time (Euro 6) activeDrive	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

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												
500/500												
400												
210/260/310												
560 ¹⁾ 610/660/710												
540x530												
370x370												
200												
650/420												
125												
41/15												
80			120			200			310			
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	
2868	2061	1596	2591	2006	1393	2800	1995	1466	2755	2024	1550	
23	42	54	42	61	88	61	106	144	115	168	220	
20	37	48	37	54	78	54	94	128	103	149	195	
>	>	>	>	>	>	>	>	>	>	>	>	
68	101	130	80	104	149	72	104	142	76	103	134	
78	117	151	93	128	173	84	121	164	87	119	156	
>	>	>	>	>	>	>	>	>	>	>	>	
6	10	16	8	13	22	11	18	24	14	19	27	
4	8	13	6	11	18	8	14	19	11	15	22	
6	10	17	9	16	26	15	25	34	20	27	40	
6	9	16	9	15	25	12	20	27	16	22	32	
90	110	110	110	125	125	125	150	150	162	175	175	
	250			250			250			250		
	40			40			40			40		
	60			60			60			60		
	4			4			4			4		
35												
50/370-80			50/370-120			50/370-200			50/370-310			
160												
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	
2,1-259												
2,1-259												
3250			3250			3300			3350			
3,66x1,43x1,92												
-	-	-	-	-	-	-	-	-	-	52	175	
-	-	-	-	-	-	-	-	-	-	52	175	

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) reduced

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

3) First filling / operating

4) Parallel movement of all axis possible

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

Technical Data Systec 60/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. platen	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator	[cm ³ /s]
> Without accumulator ActiveDrive	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Motor 1 (120 bar) activeDrive	[g/s]
> Motor 2 (120 bar) activeDrive	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[litr.]
General data	
Oil tank capacity ⁴⁾	[litr.]
Installed electrical rating	
> Pump ⁵⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Heating capacity of screw cylinder ⁶⁾	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[s-mm]
Dry cycle time (Euro 6) activeDrive	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

Systec 60/420								
60/420-200			60/420-310			60/420-430		
600-200			600-310			600-430		
60/420								
			600/600					
			450					
			150 ^{1)/250/300/350}					
			600 ^{1)/700/750/800}					
			600x600					
			420x420					
			215					
			780/500					
			150					
			41/15					
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
2800	1995	1466	2755	2024	1550	2644	2025	1600
61	106	144	115	168	220	177	231	293
54	94	128	103	149	195	159	205	259
83	121	164	87	119	156	91	119	150
114	166	224	119	162	212	124	162	206
15	25	34	20	26	37	21	29	37
11	20	26	16	21	29	17	23	31
15	25	34	22	30	41	24	33	44
13	22	30	18	24	33	19	26	35
125	150	150	162	175	175	184	184	184
	250			250			300	
	40			40			40	
	60			60			60	
4	4	4	4	4	4	4	4	5
				35				
60/420-200			60/420-310			60/420-430		
			180					
			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
			2,0-294					
			2,0-294					
3900			3950			4000		
			4,08x1,49x2,00					
-	-	-	-	-	-	-	14	170
-	-	-	-	-	-	-	14	170

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) 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) Parallel movement of all axis possible

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

Technical Data Systec 80/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. platen	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator	[cm ³ /s]
> Without accumulator ActiveDrive	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Motor 1 (120 bar) activeDrive	[g/s]
> Motor 2 (120 bar) activeDrive	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[litr.]
General data	
Oil tank capacity ⁴⁾	[litr.]
Installed electrical rating	
> Pump ⁵⁾	[~kW]
> Pump ActiveDrive	[~kW]
> Heating capacity of screw cylinder ⁶⁾	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[s-mm]
Dry cycle time (Euro 6) activeDrive	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

Systec 80/420								
80/420-200			80/420-310			80/420-430		
800-200			800-310			800-430		
80/420								
800/800								
450								
150 ^{1)/} 250/300/350								
600 ^{1)/} 700/750/800								
600x600								
420x420								
215								
780/500								
150								
41/15								
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
2800	1995	1466	2755	2024	1550	2644	2025	1600
61	106	144	115	168	220	177	231	293
54	94	128	103	149	195	159	205	259
83	121	164	87	119	156	91	119	150
114	166	224	119	162	212	124	162	206
15	25	34	20	26	37	21	29	39
11	20	26	16	21	29	17	23	31
15	25	34	22	30	41	24	33	44
13	22	30	18	24	33	19	26	35
125	150	150	162	175	175	184	184	184
	250			250			300	
	40			40			40	
	60			60			60	
4	4	4	4	4	4	4	4	5
				35				
80/420-200			80/420-310			80/420-430		
180								
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
2,0-294								
2,0-294								
3900			4000			4000		
4,08x1,49x2,00								
-	-	-	-	-	-	-	14	170
-	-	-	-	-	-	-	14	170

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) 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) Parallel movement of all axis possible

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

Technical Data Systec 100/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. platen	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) ¹⁾	[g/s]
> Motor 2 (120 bar) ¹⁾	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump	[~kW]
> Pump ActiveDrive ⁴⁾	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[s-mm]
Dry cycle time (Euro 6) activeDrive	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

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											
1000/1000											
500											
150/250/300/350											
650/750/800/850											
600x600											
420x420											
215											
780/500											
150											
41/15											
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
2800	1995	1466	2755	2024	1550	2644	2025	1600	2423	1914	1550
61	106	144	115	168	220	177	231	293	251	322	398
54	94	128	103	149	195	159	205	259	226	291	359
93/127	120/164	173/237	119/151	152/206	212/269	124/158	162/206	206/260	136/172	172/218	212/269
15/15	25/25	34/34	22/26	30/35	41/48	24/28	33/39	44/52	17/21	23/29	31/40
11/13	22/22	26/30	18/21	24/28	33/39	19/22	26/31	35/42	14/17	18/23	25/31
125	150	150	162	175	175	184	184	184	200	203	203
	250			250			300			300	
	40			40			40			40	
	60			60			60			60	
4	4	4	4	4	4	4	4	4	4	4	5
	35			35			35			50	
100/420-120			100/420-310			100/420-430			100/420-600		
180											
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
2,1-294											
2,1/294											
4350			4400			4450			4500		
4,18x1,49x2,00											
-	-	-	-	-	-	-	14	170	94	229	368
-	-	-	-	-	-	-	14	170	94	229	368

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 (ZE1092)

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) Parallel movement of all axis possible

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

Technical Data Systec 120/470

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. platen	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar)	[g/s]
> Motor 2 (120 bar)	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ¹⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ²⁾	[ltr.]
Installed electrical rating	
> Pump	[~kW]
> Pump ActiveDrive	[~kW]
> Heating capacity of screw cylinder ³⁾	[~kW]
> Capacity	
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euromap 6)	[s-mm]
Dry cycle time (Euro 6) activeDrive	[s-mm]
Net weight (without oil) ⁴⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

Systec 120/470								
120/470-310			120/470-430			120/470-600		
1200-310			1200-430			1200-600		
120/470								
			1200/1200					
			600					
			150/250/300/350					
			750/850/900/950					
			670x670					
			470x470					
			230					
			1100/750					
			180					
			41/15					
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
2755	2024	1550	2644	2025	1600	2423	1914	1550
115	168	220	177	231	293	251	322	398
103	149	195	159	205	259	226	291	359
151	206	269	158	206	260	172	218	268
26	35	52	28	42	52	23	29	42
20	28	41	22	33	42	18	23	33
162	175	175	184	184	184	200	203	203
	250			300			300	
	40			40			40	
	60			60			60	
4	4	4	4	4	4	4	4	5
	35			35			50	
120/470-310			120/470-430			120/470-600		
			220					
			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
			2,1-329					
			2,1-329					
5500			5500			5600		
			4,55x1,57x2,17					
-	-	-	-	-	33	-	29	232
-	-	-	-	-	33	-	29	232

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) Parallel movement of all axis possible

4) 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	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ActiveDrive ¹⁾	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) activeDrive ¹⁾	[g/s]
> Motor 2 (120 bar) activeDrive ¹⁾	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump ActiveDrive ¹⁾	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity with ActiveDrive ¹⁾	[kW]
Dry cycle time (Euro 6) activeDrive ¹⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

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												
						1600/1760						
						500						
						275						
						585/685						
						1085/1185						
						770x770						
						520x520						
						300						
						2200/1300/1700						
						160						
						59/29						
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	
2755	2024	1550	2644	2025	1600	2418	1914	1550	2402	1946	1351	
124	168	220	168	231	293	231	323	399	358	442	636	
113	153	200	153	210	266	210	294	363	326	402	579	
111/165	151/225	197/294	116/172	151/225	191/284	126/188	160/238	197/293	127/189	157/234	226/337	
24/26	33/35	48/52	26/35	39/52	49/66	24/32	30/40	43/57	20/30	28/42	44/66	
19/26	26/35	39/52	21/28	31/42	39/53	19/25	24/32	34/46	15/21	21/30	32/47	
	175			175			184			225		
300/300	300/300	300/300	400/322	400/319	400/294	400/319	400/294	400/291	915/420	762/407	465/368	
	20			20			20			20		
	60			80			80			110		
	4			4			4			5		
	35			35			50			70		
160/520-310			160/520-430			160/520-600			160/520-840			
						480 / 400						
						25/45						
8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7	13	14,8	23	
33/53	34/54	36/56	34/54	36/56	36/56	36/56	36/56	41/61	38/58	40/60	48/68	
						1,45/1,3-364						
6930			6930			7088			7350			
5,41x1,66x2,14			5,41x1,66x2,14			5,41x1,66x2,14			6,02x1,66x2,14			
-	-	-	-	-	-	-	4	143	1140	1140	1140	
-	-	-	-	-	-	-	4	143	1140	1140	1140	

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.

The calculated values based on a line voltage of 400V, deviating line voltage influences the parameters 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) Parallel movement of all axis possible

5) 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	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ActiveDrive ¹⁾	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) activeDrive ¹⁾	[g/s]
> Motor 2 (120 bar) activeDrive ¹⁾	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump ActiveDrive ¹⁾	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity with ActiveDrive ¹⁾	[kW]
Dry cycle time (Euro 6) activeDrive ¹⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

Systec 210/580												
210/580-430			210/580-600			210/580-840			210/1450			
2100-430			2100-600			2100-840			2100-1450			
210/580												
2100/2310												
575												
340												
690/790												
1265/1365												
860x860												
580x580												
350												
3300/2000/2500												
180												
73/36												
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	
2640	2025	1600	2418	1914	1550	2402	1946	1351	2426	1905	1400	
168	231	293	231	323	399	358	442	636	530	763	1039	
153	210	266	210	294	363	326	402	579	482	695	946	
172/234	225/306	284/387	188/250	238/317	293/391	189/252	234/312	337/449	166/221	239/318	325/433	
35/31	52/46	66/58	32/32	40/40	57/57	30/40	42/57	66/88	30/40	47/63	67/89	
28/28	42/42	53/53	25/25	32/32	46/46	21/28	30/40	47/63	19/25	29/39	41/56	
	175			184			225			270		
400/332	400/332	400/304	400/329	400/304	400/301	925/430	772/417	475/378	1100/417	803/378	499/377	
	20			20			20			20		
	80			80			110			110		
	4			4			5			5		
	35			50			70			110		
210/580-430			210/580-600			210/580-840			210/580-1450			
480/400												
26/51												
9,4	11,1	11,3	11,1	11,3	15,7	13	14,8	23,1	14,8	23,1	27	
35/60	37/62	37/62	37/62	37/62	42/67	39/64	41/66	49/74	41/66	49/74	53/78	
1,5/1,4-406												
8925			8925			9240			11025			
6,02x7,76x2,15			6,06x7,76x2,15			6,72x7,76x2,15			6,79x7,76x2,15			
-			-			950			1432			
-			-			950			1432			

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.

The calculated values based on a line voltage of 400V, deviating line voltage influences the parameters 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) Parallel movement of all axis possible

5) 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	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ActiveDrive ¹⁾	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) activeDrive ¹⁾	[g/s]
> Motor 2 (120 bar) activeDrive ¹⁾	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump ActiveDrive ¹⁾	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity with ActiveDrive ¹⁾	[kW]
Dry cycle time (Euro 6) activeDrive ¹⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

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												
2800/3080												
675												
330												
710/830												
1385/1505												
950x950												
630x630												
400												
4300/2500/3300												
200												
73/36												
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	
2418	1914	1550	2402	1946	1351	2426	1905	1400	2426	1877	1437	
231	323	399	358	442	636	530	763	1039	891	1212	1583	
210	294	363	326	402	579	482	695	946	810	1103	1441	
188/250	238/317	293/391	189/252	234/312	337/449	166/221	229/318	325/433	178/237	242/323	317/422	
32/32	40/40	57/57	30/40	42/57	66/88	30/40	47/63	67/89	29/39	41/56	58/79	
25/25	32/32	46/46	21/28	30/40	47/63	19/25	29/39	41/56	20/28	29/40	41/55	
184			225			270			315			
400/369	400/344	400/341	915/470	762/457	465/418	1100/457	803/418	499/417	1155/418	851/417	632/420	
20			20			20			20			
80			110			110			110			
4			5			5			5			
50			70			110			110			
280/630-600			280/630-840			280/630-1450			280/630-2300			
659 / 549												
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	
1,85/1,65-441												
12390			13125			13125			13650			
6,59x1,92x2,25			6,62x1,92x2,25			7,28x1,92x2,25			7,35x1,92x2,25			
-			570			1053			1534			
-			570			1053			1534			

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.

The calculated values based on a line voltage of 400V, deviating line voltage influences the parameters 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) Parallel movement of all axis possible

5) 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	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ActiveDrive ¹⁾	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) activeDrive ¹⁾	[g/s]
> Motor 2 (120 bar) activeDrive ¹⁾	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump ActiveDrive ¹⁾	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity with ActiveDrive ¹⁾	[kW]
Dry cycle time (Euro 6) activeDrive ¹⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

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												
3500/3850												
730												
350												
745/950												
1475/1680												
1040x1060												
720x720												
400												
4700/2650/3600												
200												
73/36												
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	
2418	1914	1550	2402	1946	1351	2426	1905	1400	2420	1877	1437	
231	323	399	358	442	636	530	763	1039	891	1212	1583	
210	294	363	326	402	579	482	695	946	810	1103	1441	
250/317	317/401	391/495	252/319	312/394	449/568	221/280	318/403	433/548	237/300	323/409	422/534	
27/27	36/36	48/48	40/49	57/70	88/110	40/50	63/78	89/111	39/49	56/70	79/97	
22/22	29/29	38/38	28/35	40/50	63/78	25/31	39/49	56/70	28/36	40/51	55/71	
184	203	203	225	225	225	270	270	270	315	315	315	
400/400	400/400	400/400	915/500	762/487	465/448	1185/487	888/448	584/447	1155/598	851/597	632/600	
	20			20			20			20		
	80			110			110			110		
4	4	5	5	5	5	5	5	5	5	5	5	
	50			70			110			110		
350/720-600			350/720-840			350/720-1450			350/720-2300			
659 / 549												
51/59												
11,1	11,3	15,7	13	14,8	23,1	14,8	23,1	27	23,1	27	30,6	
62/70	62/70	67/75	64/72	66/74	74/82	66/74	74/82	78/86	74/82	78/86	82/90	
2,1/1,85-504												
15015			15015			15540			15750			
6,94x2,01x2,27			7,13x2,01x2,27			7,64x2,01x2,27			8,26x2,01x2,27			
-			570			1138			1534			
-			570			1138			1534			

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.

The calculated values based on a line voltage of 400V, deviating line voltage influences the parameters 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) Parallel movement of all axis possible

5) 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	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ActiveDrive ¹⁾	[cm ³ /s]
Plasticising rate (PS)	
> Motor 1 (120 bar) activeDrive ¹⁾	[g/s]
> Motor 2 (120 bar) activeDrive ¹⁾	[g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump ActiveDrive ¹⁾	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity with ActiveDrive	[kW]
Dry cycle time (Euro 6) activeDrive ¹⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]

6 \ VMF												
420/820-840			420/820-1450			420/820-2300			420/820-3300			
4200-840			4200-1450			4200-2300			4200-3300			
420/820												
4200/4620												
770												
380												
825/1050												
1595/1820												
1200x1200												
820x820												
420												
6600/3800/5100												
230												
96/42												
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	
2402	1946	1351	2426	1905	1400	2426	1877	1437	2423	1437	1316	
358	442	636	530	763	1039	891	1212	1583	1362	1779	2509	
326	402	579	482	695	946	810	1103	1441	1240	1619	2283	
252/319	312/394	449/568	221/280	318/403	433/548	237/300	323/409	422/534	250/317	327/413	461/583	
40/49	57/70	88/110	40/50	63/78	89/111	39/49	56/70	79/97	40/49	55/65	89/110	
28/35	40/50	63/78	25/31	39/49	56/70	28/36	40/51	55/71	26/33	37/46	59/74	
	225		280			315			354			
930/520	777/507	480/468	1205/507	908/468	604/467	1155/618	851/617	632/620	980/680	980/680	613/613	
	20		20			20			20			
	110		110			110			110			
	5		5			5			6			
	70		110			110			110			
420/820-840			420/820-1450			420/820-2300			420/820-3300			
804 / 670												
51/59												
13	14,8	23,1	14,8	23,1	27	23,1	27	30,6	30,6	30,6	42,6	
64/72	66/74	74/82	66/74	74/82	78/86	74/82	78/86	82/90	82/90	82/90	94/102	
2,5/2,25-574												
21000			21000			21000			24885			
7,99x2,21x2,57			7,99x2,21x2,57			8,02x2,21x2,57			9,33x2,21x2,57			
-			413			789			1670			
-			413			789			1670			

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.

The calculated values based on a line voltage of 400V, deviating line voltage influences the parameters 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) Parallel movement of all axis possible

5) 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	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ⁴⁾	[ltr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 500/920									
500/920-2300			500/920-3300			500/920-6400			
5000-2300			5000-3300			5000-6400			
500/920									
			5000/5500						
			850						
			400						
			920/1150						
			1770/2000						
			1300x1300						
			920x920						
			420						
			8700/5200/6700						
			260						
			96/42						
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	
2420	1877	1437	2423	1855	1316	2391	1895	1413	
891	1212	1583	1362	1779	2509	2388	3367	4514	
810	1103	1441	1240	1619	2283	2173	3064	4108	
248/303	338/413	441/539	320/449	418/586	589/826	407/475	574/670	769/898	
1272	1462	1608	1462	1608	1985	1608	1985	2281	
40/49	58/70	81/98	50/81	69/113	111/182	65/76	104/122	151/176	
28/35	41/50	57/69	33/46	46/65	74/104	43/50	69/80	99/116	
84	87	93	105	129	155	132	176	187	
	315			354			475		
1240/766	936/765	717/717	1070/728	1070/728	703/703	1100/708	1100/708	657/657	
	20			20			20		
	110			110			110		
	5			6			6		
				110					
500/920-2300			500/920-3300			500/920-6400			
			912 / 760						
			45/55			75/90			
			45/55			75/90			
			47			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	
3,1/2,6-644			2,6/2,4-644			2,4/2,3-644			
19425/5460/24885			19425/6825/26250			19425/8295/27720			
4,60x2,36x2,53 / 3,82x2,28x2,53 ⁸⁾			4,60x2,36x2,53 / 4,90x2,28/2,53 ⁸⁾			4,60x2,36x2,53 / 5,62x2,28x2,53 ⁸⁾			
454			500			1197			
487			593			1270			
612			775			1060			

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU-part/U-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ⁴⁾	[ltr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 650/1020									
650/1020-3300			650/1020-6400			650/1020-9500			
6500-3300			6500-6400			6500-9500			
650/1020									
6500/7150									
930									
450									
1020/1250									
1950/2180									
1450x1470									
1020x1020									
500									
11200x6700x8600									
300									
149/76									
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	
2423	1855	1316	2391	1895	1413	2434	1815	1300	
1362	1779	2509	2388	3367	4514	3899	5227	7300	
1240	1619	2283	2173	3064	4108	3548	4756	6643	
449/523	586/684	826/964	407/475	574/670	769/898	521/637	699/854	976/1192	
1462	1608	1985	1608	1985	2281	1985	2281	2787	
69/81	97/113	156/182	65/76	104/122	151/176	80/98	116/141	164/200	
46/54	65/76	104/122	43/50	69/80	99/116	54/66	78/95	110/135	
105	129	155	132	176	187	182	223	213	
	354			475			550		
1155/820	1155/820	788/788	1100/715	1100/715	657/657	1340/800	1340/800	753/753	
	20			20			20		
	110			110			110		
6	6	6	6	6	6	6	6	7	
				110					
650/1020-3300			650/1020-6400			650/1020-9500			
912 / 760			912 / 760			1560 / 1300			
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	
3,3/2,6/2,4-714			3,3/2,6-714			2,6/2,2-714			
29295/6825/36120			29295/8295/37590			29295/10500/39795			
5,00x2,52x2,66 / 4,92x2,28x2,66 ⁸⁾			5,00x2,52x2,66 / 5,62x2,28x2,66 ⁸⁾			5,00x2,52x2,66 / 6,97x2,28x2,66 ⁸⁾			
495			1192			647			
588			1270			647			
770			1055			594			

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU-part/U-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ⁴⁾	[ltr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ⁶⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 800/1120					
800/1120-6400			800/1120-9500		
8000-6400			8000-9500		
800/1120					
8000/8800					
1030					
500					
1120/1350					
2150/2380					
1620x1620					
1120x1120					
700					
14000/8400/10800					
350					
197/102					
6400			9500		
80	95	110	95	110	130
standard	standard	standard	standard	standard	standard
24	20	20	23	20	20
2391	1895	1413	2434	1815	1300
2388	3367	4514	3899	5227	7300
2173	3064	4108	3548	4756	6643
407/475	574/670	769/898	521/637	699/854	976/1192
1608	1985	2281	1985	2281	2787
65/76	104/122	151/176	80/98	116/141	164/200
43/50	69/80	99/116	54/66	78/95	110/135
132	176	187	182	223	212
	475			550	
1246/860	1246/860	803/803	1400/860	1400/860	813/813
	20			20	
	110			110	
6	6	6	6	6	7
110					
800/1120-6400			800/1120-9500		
912 / 760			1560 / 1300		
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
3,9/3,3-784			3,3/2,8-784		
39500/8295/47795 ⁸⁾			39500/10500/50000 ⁸⁾		
5,56x2,52x2,77 / 5,59x2,28x2,77 ⁹⁾			5,56x2,52x2,77 / 6,33x2,28x2,77 ⁹⁾		
1192			645		
1264			645		
1054			592		

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) Standard/twin pump

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

8) CU/IU/total

9) CU-part/IU-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ⁴⁾	[ltr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

6 VMF					
1000/1400-6400			1000/1400-9500		
10000-6400			10000-9500		
1000/1400					
10000/11000					
1250					
500/600 (Only valid for enlarged max. mould height)					
1200/1500					
2450/2750					
1950x1670					
1400x1120					
950x750					
16000/10700/10800					
350					
233/121					
6400		9500			
80	95	110	95	110	130
standard	standard	standard	standard	standard	standard
24	20	20	23	20	20
2380	1832	1413	2434	1815	1300
2388	3367	4514	3899	5227	7300
2149	3030	4063	3509	4704	6670
407/475	574/670	769/898	521/637	699/854	976/1192
1608	1985	2281	1985	2281	2787
65/76	104/122	151/176	80/98	116/141	164/200
43/50	69/80	99/116	54/66	78/95	110/135
132	176	187	182	223	212
	475			550	
1221/905	1221/905	778/778	1455/905	1455/905	868/868
	20			20	
	110			110	
6	6	6	6	6	7
110					
1000/1400-6400			1000/1400-9500		
912 / 760			1560 / 1300		
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
5,6/5,1-980			5,1/4,5-980		
57881/8295/66176 ⁸⁾			57881/10500/68381 ⁸⁾		
6,89x3,21x3,02 / 5,55x2,28x3,02 ⁹⁾			6,89x3,21x3,02 / 6,47x2,28x3,02 ⁹⁾		
1131			665		
1204			665		
994			612		

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU/IU/total

9) CU-part/IU-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ⁴⁾	[ltr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 1000/1400			
1000/1400-11500		1000/1400-16000	
10000-11500		10000-16000	
1000/1400			
		10000/11000	
		1250	
		500/600 (Only valid for enlarged max. mould height)	
		1200/1500	
		2450/2750	
		1950x1670	
		1400x1120	
		950x750	
		1600/10700/10800	
		350	
		233/121	
11500		16000	
110	130	130	145
standard	standard	standard	standard
24	20	20	20
1971	1412	1809	1454
5797	8097	8827	10981
5217	7287	7944	9883
786/1179	1098/1647	1284/1284	1589/1598
2281	2721	2721	2642
114/171	162/242	135/202	167/250
95/143	135/202	104/156	129/193
129	126	183	155
610		665	
860/-		860/-	
20		20	
110		110	
7		7	
		110	
1000/1400-11500		1000/1400-16000	
		2400 / 2000	
		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
		4,5/3,8-980	
57881/16380/74261 ⁸⁾		57881/21000/78881 ⁸⁾	
		5,82x3,22x3,02 / 7,38x2,59x3,02 ⁹⁾	
-	-	-	70
-	-	-	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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU/IU/total

9) CU-part/IU-part

Technical Data Systec 1300/1500-9500

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov./ fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ⁴⁾	[ltr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 1300/1500		
	1300/1500-9500	
	13000-9500	
1300/1500		
	13000/14300	
	1500	
	700	
	1400/1600	
	2900/3100	
	2150x1880	
	1500x1250	
	1000x850	
	21000/14000/14500	
	350	
	233/112	
9500		
	95	110
	standard	standard
	23	20
	2434	1815
	3899	5227
	3509	3713*
	521/637	699/854
	1701	2091
	80/98	116/141
	54/66	78/95
	182	223
	1490/940	1490/940
	6	6
		7
1300/1500-9500		
	1560 / 1300	
	90/110	
	90/110	
	115	
	59,3	59,3
		79,1
	149/169	149/169
	264/284	264/284
	8,6/6,5-1050	
	70350/10500/80850 ⁸⁾	
	8,09x3,41x2,99 / 6,45x2,29x2,99 ⁹⁾	
	645	
	645	
	592	

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU/IU/total

9) CU-part/IU-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[litr.]
General data	
Oil tank capacity ⁴⁾	[litr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 1300/1500			
1300/1500-11500		1300/1500-16000	
13000-11500		13000-16000	
1300/1500			
		13000/14300	
		1500	
		700	
		1400/1600	
		2900/3100	
		2150x1880	
		1500x1250	
		1000x850	
		21000/14000/14500	
		350	
		233/112	
11500		16000	
110	130	130	145
standard	standard	standard	standard
24	20	20	20
1971	1412	1809	1454
5797	8097	8827	10981
5217	7287	7944	9883
786/1179	1098/1647	856/1284	1065/1598
2281	2920	2701	2642
114/171	162/242	135/202	167/250
95/143	135/202	104/156	129/193
129	126	183	155
610		665	
860/860		860/860	
45		45	
110		110	
7		7	
110		110	
1300/1500-11500		1300/1500-16000	
		2400 / 2000	
		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
		6,5/4,7-1050	
70350/16380/86730 ⁸⁾		70350/21000/91350 ⁸⁾	
		8,09x3,41x2,99 / 6,25x2,58x2,99 ⁹⁾	
-	-	-	35
-	-	-	-

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU/IU/total

9) CU-part/IU-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ²⁾	[g/s]
> Motor 2 (120 bar) ²⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ³⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[litr.]
General data	
Oil tank capacity ⁴⁾	[litr.]
Installed electrical rating	
> Pump ²⁾	[~kW]
> Pump ActiveDrive ²⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁵⁾	[~kW]
> Capacity with hydraulic drive ²⁾	[kW]
> Capacity with electr. drive ⁶⁾	[kW]
Dry cycle time (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁷⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 1500/1500			
1500/1500 - 11500		1500/1500 - 16000	
15000-11500		15000-16000	
1500/1500			
		15000/16500	
		1500	
		700	
		1400/1600	
		2900/3100	
		2150x1880	
		1500x1250	
		1000x850	
		21000/14000/14500	
		350	
		233/122	
11500		16000	
110	130	130	145
standard	standard	standard	standard
24	20	20	20
1971	1412	1809	1454
5797	8097	8827	1454
5217	7287	7944	9883
786/1179	1098/1647	856/1284	1065/1598
2281	2920	2701	2642
114/171	162/242	135/202	167/250
95/143	135/202	104/156	129/193
129	126	183	155
610		665	
		930	
		45	
		110	
		7	
110		110	
1500/1500-11500		1500/1500-16000	
		2400 / 2000	
		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
		6,5/4,7-1050	
81585/16380/97965 ⁸⁾		81585/21000/102585 ⁸⁾	
		7,90x3,41x2,99 / 6,66x2,58x2,99 ⁹⁾	
-	-	-	35
-	-	-	-

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/WA109

2) Standard/increased

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

4) First filling / operating

5) Parallel movement of all axis possible

6) standard/increased

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

8) CU/IU/total

9) CU-part/IU-part

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

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping Force / Locking Force	[kN]
Max. mould opening stroke	[mm]
Mould height Min./WA211	[mm]
Max./enlarged mould height	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter (k)	[mm]
Max mould weight / mov. / fixed	[kg]
Ejection stroke std./enlarged	[mm]
Ejection / Retraction force	[kN]
Injection unit	
Screw diameter	[mm]
Screw geometry	
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection	
> Without accumulator ¹⁾	[cm ³ /s]
> With accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> Motor 1 (120 bar) ¹⁾	[g/s]
> Motor 2 (120 bar) ¹⁾	[g/s]
> Electr. screw drive(PS/PE*)	[~g/s]
Max. screw stroke	[mm]
Max. dist. nozz. retract./auto mode ²⁾	[mm]
Max. nozzle dipping depth (WA650)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity, optional	[ltr.]
General data	
Oil tank capacity ³⁾	[ltr.]
Installed electrical rating	
> Pump ¹⁾	[~kW]
> Electric screw drive (WA313)	[~kW]
> Heating capacity of screw cylinder ⁴⁾	[~kW]
> Capacity with hydraulic drive ¹⁾	[kW]
> Capacity with electr. drive ¹⁾	[kW]
Dry cycle time (Euromap 6) ¹⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Transport dimensions (l x w x h)	[~m]
Motor end projection 1 max. (h)	[mm]
Motor end projection 2 max. (h)	[mm]
Electric drive projection max. (h)	[mm]

Systec 2000/1800			
Systec 2000/1800-11500		Systec 2000/1800-16000	
20000-11500		20000-16000	
2000/1800			
		20000/21000	
		1650	
		900	
		1600/1800	
		3250/3450	
		2560x2160	
		1800x1500	
		1200x860	
		27000/18000/18500	
		450	
		382/233	
11500		16000	
110	130	130	145
standard	standard	standard	standard
24	20	20	20
1971	1412	1809	1454
5797	8097	8827	10981
5217	7287	7944	9883
1179/1179	1647/1647	1284/1284	1598/1598
2281	2920	2701	2642
171/171	242/242	202/202	250/250
143/143	202/202	156/156	193/193
129	126	183	155
610		665	
950/950		950/950	
45		45	
110		110	
7	7	7	7
110			
2000/1800-11500		2000/1800-16000	
		2400 / 2000	
		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
7,5/7,5-1260			
105000/16380/121380 ⁶⁾		105000/21000/126000 ⁶⁾	
8,94x3,80x3,13/6,38x2,58x3,13 ⁷⁾			
-	-	-	-
-	-	-	55
-	-	-	23

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/twin pump

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

3) First filling / operating

4) Parallel movement of all axis possible

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

6) CU/IU/total

7) CU-part/IU-part

Equipment System 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 - 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	●	●	●
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 mesuring 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 seperate 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 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	○	○	○

Functions	35...120	160...210	280...420
488 - Service page	●	●	●
489 - Analysis of cycle time	○	○	○
493 - Two freely programmable sides	●	●	●
494 - Additional two freely programable 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)	●	●	●

● 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.

General	35...120	160...210	280...420
96 - Alarm management (alarms + indications)	●	●	●
97 - Setpoint entry switch-over to physical values (bar, cm ² , 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 System 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	500...800	1.000...2.000
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) (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	○	○
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 separate 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 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/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.



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