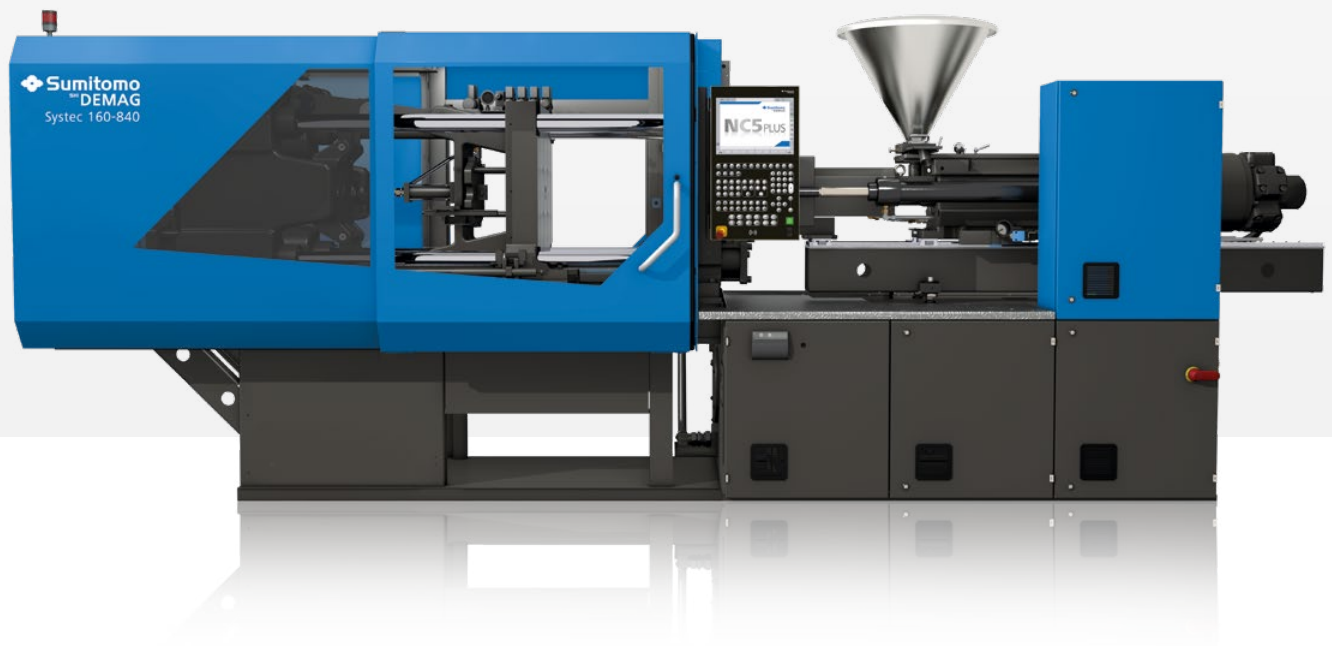


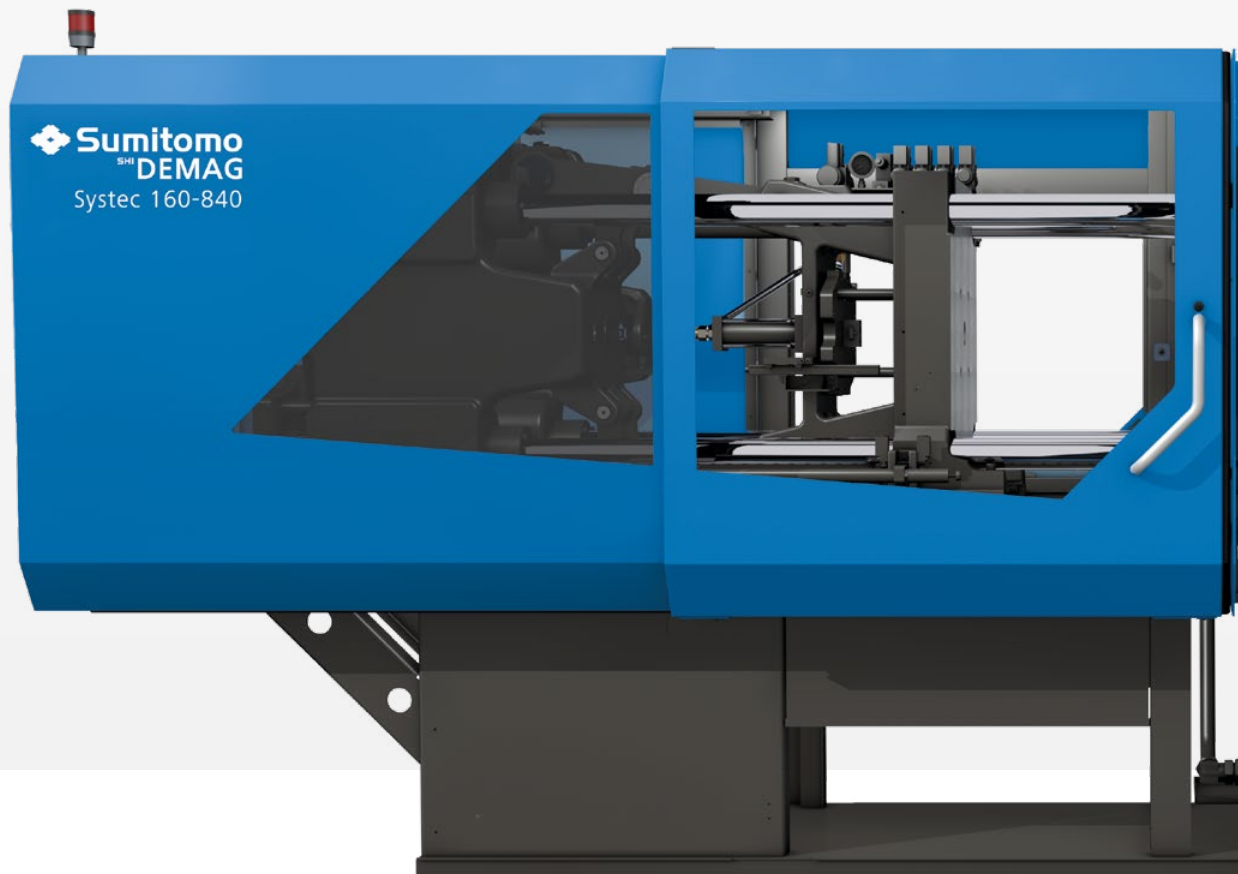
The All-round machine.

Systec.

Maximum flexibility - highest reliability



***MORE THAN 60
YEARS OF
EXPERIENCE***



Systemec

The best solution for a flexible production.

With more than 60 years of experience in the production of injection moulding machines, Sumitomo (SHI) Demag has the expertise to bring perfection to the most diverse drive technologies. The result of this experience is the fourth generation of the Systemec series. Servo-hydraulic technology in combination with the highest engineering expertise enables dynamic parallel movements with only one hydraulic circuit. This results in minimized noise, more stable processes and lower energy consumption. Convince yourself of our competence, experience and technology.



Systemec

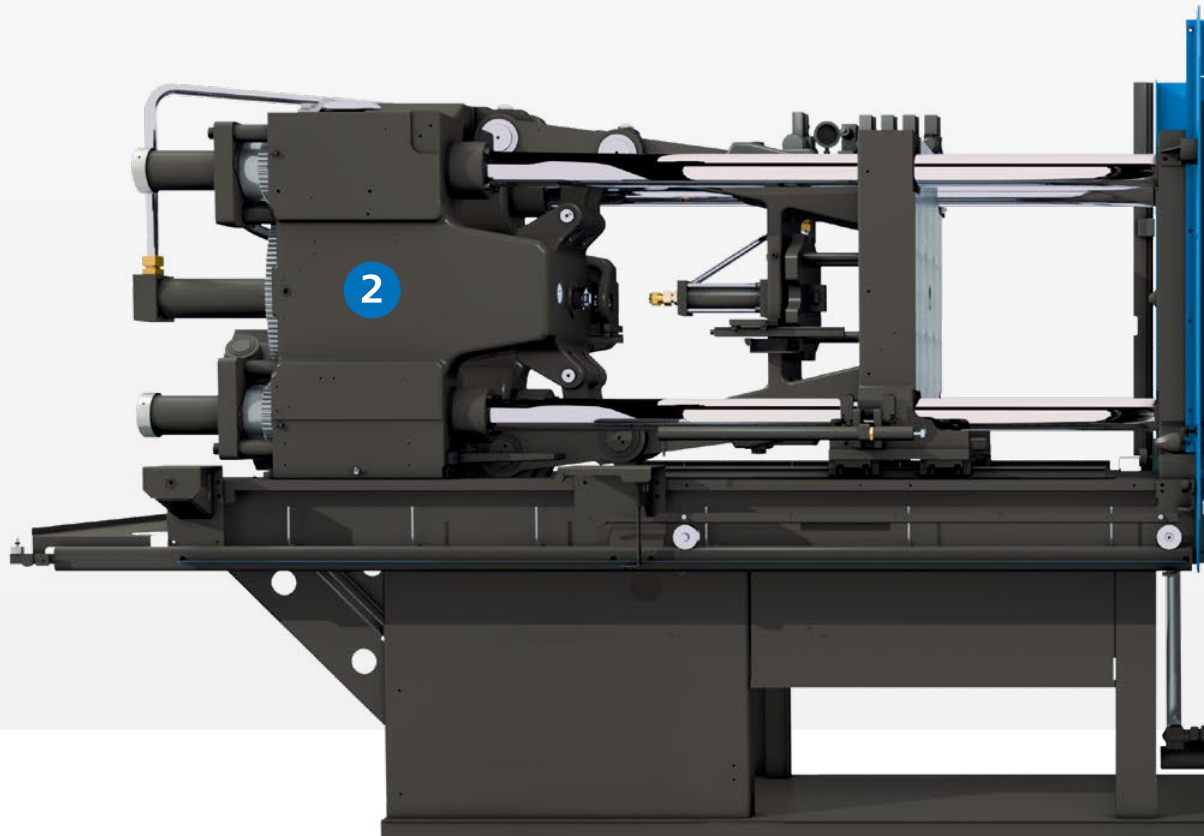
Your benefits at a glance.

1 – Servomotor drive

Due to the increasing demand to minimize energy consumption and noise emission, our Systemec machines are equipped with servohydraulic drive technology as standard. The customer's advantage is obvious, highest efficiency in connection with proven machine technology.

2 – Toggle technology

The Systemec clamping unit is equipped with proven toggle technology. The special kinematics guarantee optimum mould movements, maximum plate parallelism and homogeneous force transmission into the injection mould. With the use of linear guides, effects such as tilting can be reduced and thus minimize your mould wear even with high mould weights.



3 – Intelligent drive technology

All the motion axes were analyzed and redesigned using state-of-the-art simulation software. The characteristics of the hydraulic elements have been precisely matched to the injection moulding process of the Systec machine. This leads to harmonious movements, high performance and a reduced noise level.

4 – Intuitive control

The intuitive control of Systec offers a multitude of advantages for your staff. Visually clear, structured and efficient options for process monitoring and control help the user to quickly find the optimal settings. The logical and simple programming with predefined machine sequences serves to fully exploit the potential of Systec.



Efficiency

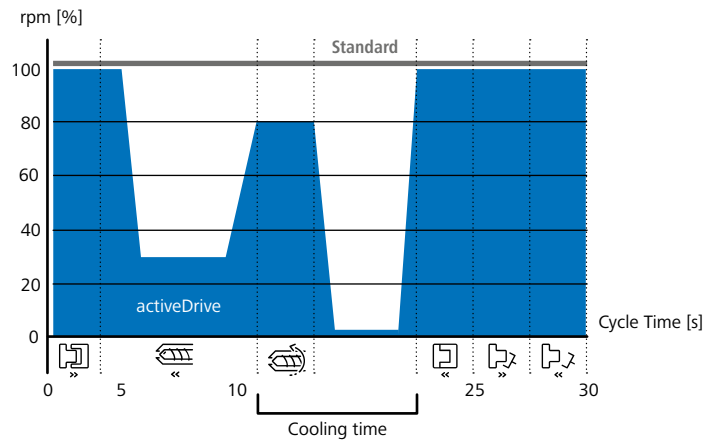
Efficiency Modules.



activeDrive

Option for energy saving

Save energy and therefore costs – activeDrive, the energy-saving drive system for Systec machines, guarantees maximum energy efficiency. During idle periods such as mould cooling or part removal, the intelligent drive throttles pump performance to provide hydraulic power only when needed. With this technology you save energy, costs and protect the environment.



**BEST PERFORMANCE.
MAXIMUM PROTECTION.**



activeProtect
Mould Protection

Protect your mould - With activeProtect, the integrated mould protection technology, a permanent profile monitoring of the mould movement is possible. The machine can react to even the smallest disturbances and the resulting deviations from the normal closing path. The monitoring can be used both for the mould closing movement and for opening the injection mould. With this technology, you also have the option of monitoring slide movements and thus optimally protect your mould.

- Normal closing curve
- Basic protection force
- - - Monitoring curve - activeProtect
- Curve in case of collision

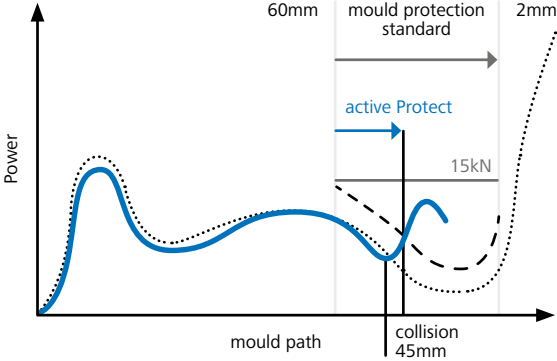


Diagram: activeProtect function



Efficiency

Intelligent technology.

Intelligent valve technology

Due to specially developed valve geometries and special valve control, it is possible to have parallel movements with only one hydraulic circuit. Our customers confirm that despite the use of only one hydraulic circuit, parallel movements of the mould or ejector do not influence each other. Thus, Systec is able to realize a wide range of processes without the use of more expensive dual-circuit hydraulics. The result of this optimization is reflected in harmonious movements, higher injection dynamics, faster axis movements and a reduced noise level.

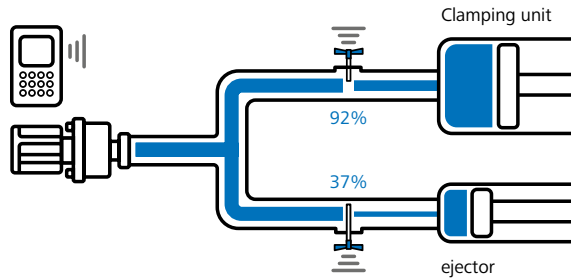


Fig. Functional principle of the intelligent valve technology

***INTELLIGENT TECHNOLOGY.
MAXIMUM PRODUCTIVITY.***

Toggle clamping unit

The toggle provides Systec with the optimum kinematics for mould movement in the injection molding process. Due to the high dynamics during acceleration, the low power requirement during the process and the optimal closing force build-up during platen contact, the motion sequence of the mould closing process can be perfectly represented. The special kinematics allow up to 30% faster mould movements than direct hydraulic clamping units and guarantee optimum process times. Finally, the high forces when opening the mould ensure that the process is stable and safe. Robust, low-maintenance and optimal kinematics - the perfect technology for your production.

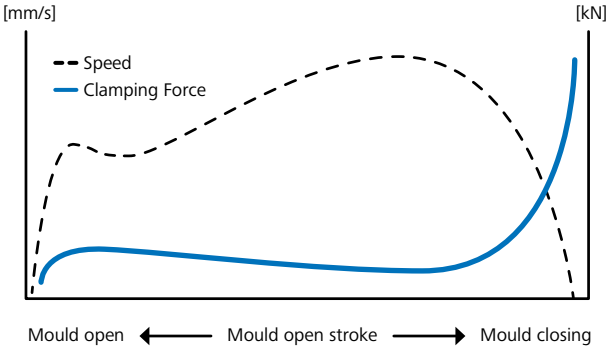


Diagram: Force- / Speed profile toggle clamping unit



Systemc SP

Equipped for short cycle times.

1 – Electrical dosing

To meet the requirements of short cycle times, the Systemc SP has an electric dosing motor that makes no compromise between dosing performance and energy efficiency.

2 – Servo valve technology

Highly dynamic injection is essential for short mould filling times. For this reason, the Systemc SP is equipped as standard with servo valve technology for the injection process.

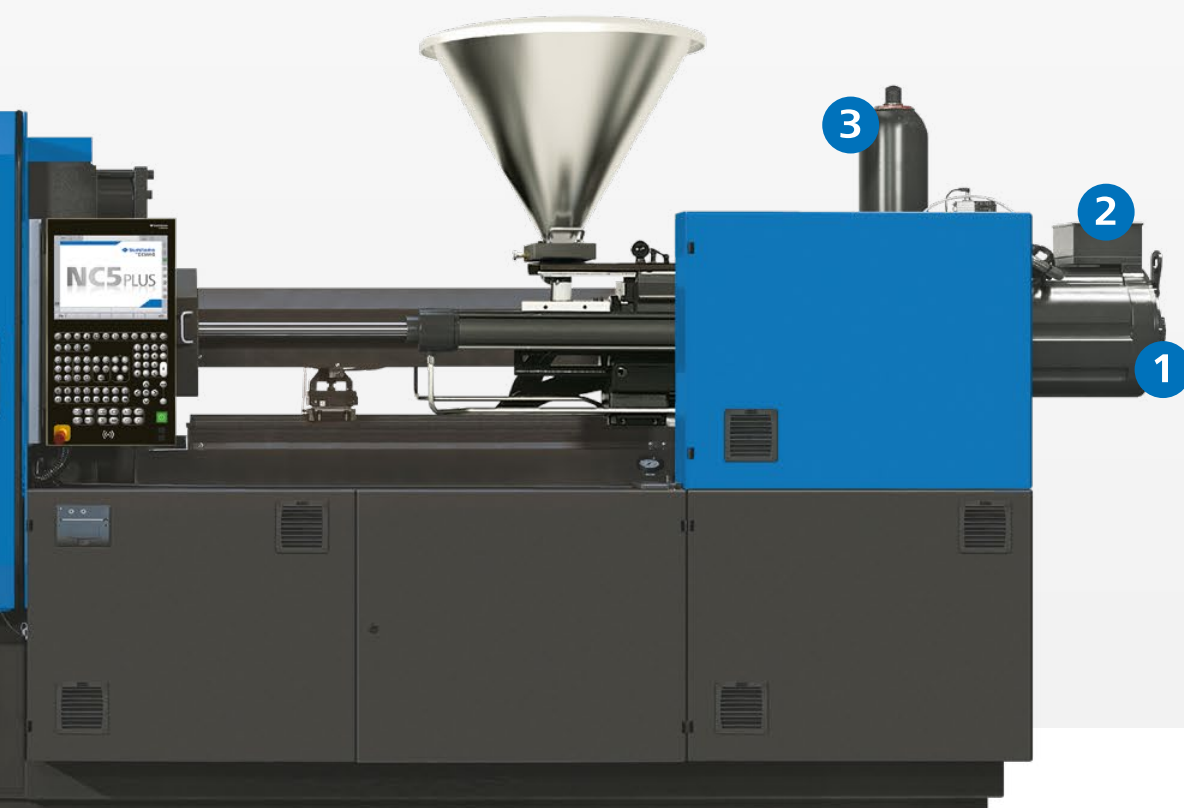


3 – Injection with hydraulic accumulator

Thanks to the integrated hydraulic accumulator of the Systec SP, injection speeds of up to 600 mm / s are possible. Thus, even thin-walled components can be manufactured easily with short injection times.

4 – Fast ejector

To round off the package, the Systec SP has a much faster ejector. This meets the requirements for shorter cycle times and completes the package.





TECHNICAL DATA.



Contents

Systec 160 - Servo / SP	14
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Sumitomo (SHI) Demag	Systec 160								
International size description	1600-430			1600-600			1600-840		
Clamping unit	160 / 520								
Clamping force / locking force, max. [kN]	1600 / 1760								
Mould opening stroke, max. [mm]	500								
Mould height, min. / max.:									
>Standard OP0210 [mm]	275 / 585								
>Increased OP0211 [mm]	275 / 685								
Distance between tie bars (h x v) [mm]	520 x 520								
Min. permissible mould diameter (k) [mm]	300								
Mould weight / mov. / fixed, max. [kg]	2200 / 1300 / 1700								
Ejector stroke/force forw./force back.:									
>Standard OP0219 [mm / kN / kN]	160 / 59 / 29								
Injection unit	430			600			840		
Screw diameter [mm]	35	40	45	40	45	50	45	50	60
L/D ratio OP0610 / OP0611	20	20	20	20	20	20	20	20	20
L/D ratio OP0612 / OP0627 ¹⁾	25	25	-	25	25	-	25	25	-
Injection pressure, max. (up to 400 °C) [bar]	2640	2025	1600	2418	1914	1550	2402	1946	1351
Injection volume, max. [cm ³]	168	231	293	255	323	399	358	442	636
Injection speed, max.:									
>Standard OP0105 [mm/s]	120	120	120	100	100	100	80	80	80
>Increased OP0106 [mm/s]	179	179	179	149	149	149	119	119	119
>Version accumulator OP0361 ¹⁾ [mm/s]	610	610	-	610	610	-	550	510	-
Injection rate, max.:									
>Standard OP0105 [cm ³ /s]	116	151	191	126	160	197	127	157	226
>Increased OP0106 [cm ³ /s]	172	225	284	188	238	293	189	234	337
>Version accumulator OP0361 ¹⁾ [cm ³ /s]	587	767	-	767	970	-	875	1001	-
Plasticising rate, max. (PS): ²⁾									
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	26 / 35	39 / 52	49 / 66	24 / 32	30 / 40	43 / 57	20 / 30	28 / 42	44 / 66
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	21 / 28	31 / 42	39 / 53	19 / 25	24 / 32	34 / 46	15 / 21	21 / 30	32 / 47
>Electr. screw drive OP0313 [g/s]	26	38	47	38	47	68	53	76	89
Nozzle stroke, max.: ³⁾									
>Manual mode [mm]	474	451	445	475	469	396	611	637	561
>Automatic mode [mm]	322	319	294	319	294	267	505	496	466
Nozzle sealing force / speed, max.:									
>Standard [kN / mm/s]	80	80	80	80	80	80	110	110	110
General data	160/520-430			160/520-600			160/520-840		
Oil tank capacity [l]	290			290			290		
Installed electrical rating:									
>Pump capacity single pump ⁵⁾ [kW]	25 / 45			25 / 45			25 / 45		
>Electr. screw drive OP0313 [kW]	24,5	24,5	24,5	24,5	24,5	24,5	35	35	35
>Heating capacity of screw cylinder ⁷⁾ [kW]	9,4 / 13	11,1 / 13,9	11,3 / -	11,1 / 13,9	11,3 / 15,7	15,7 / -	13 / 15,7	14,8 / 22,3	23,1 / -
Dry cycle time (Euromap 6):									
>Standard OP0105 [s-mm]	1,45 - 364			1,45 - 364			1,45 - 364		
>Increased OP0106 ¹⁾ [s-mm]	1,3 - 364			1,3 - 364			1,3 - 364		
Net weight ⁴⁾ [kg]	6983			6983			7500		
Motor end projection, max. (h):									
>Hyd. motor 1 OP0310 [mm]	0	75	225	163	313	403	1152	1332	1552
>Hyd. motor 2 OP0311 [mm]	0	75	225	163	313	403	1152	1332	1552
>Electr. screw drive OP0313 ⁷⁾ [mm]	295 / 395	395 / 545	545 / -	483 / 633	633 / 808	723 / -	1341 / 1521	1521 / 1741	1741 / -

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

¹⁾ With systec SP chooseable.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

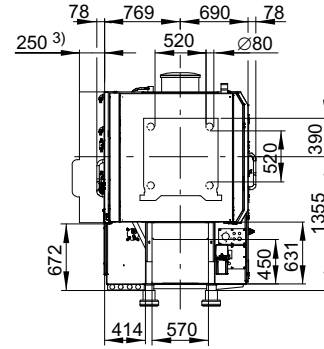
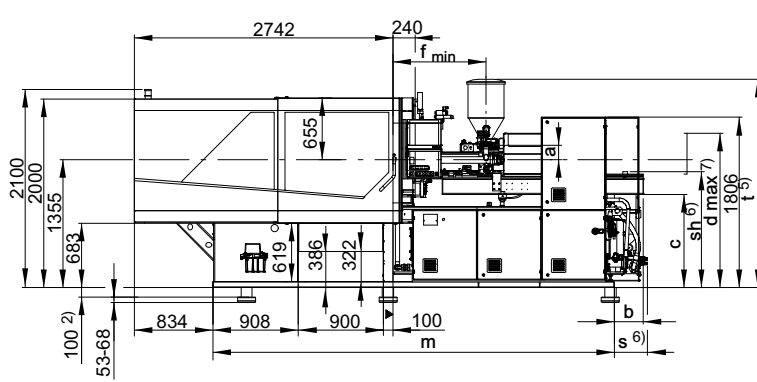
⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment.

⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

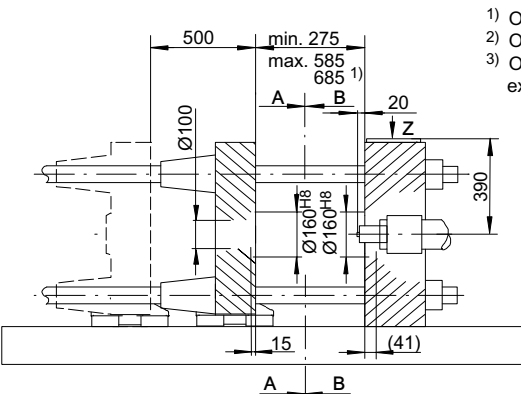
⁷⁾ L/D=20 / L/D=25

Machine dimensions Systec 160



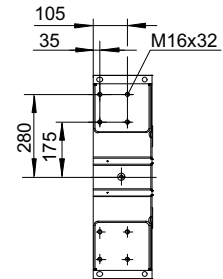
- 1) OP0211 Mould height increased
- 2) OP0122 Machine height increase
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 160

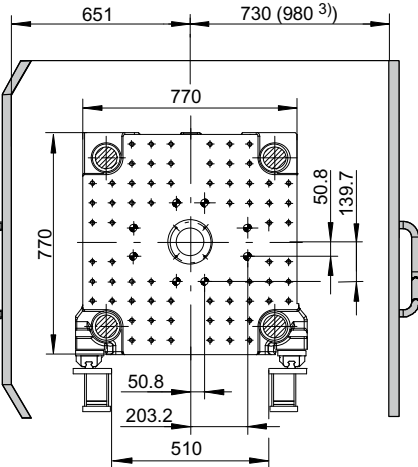


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

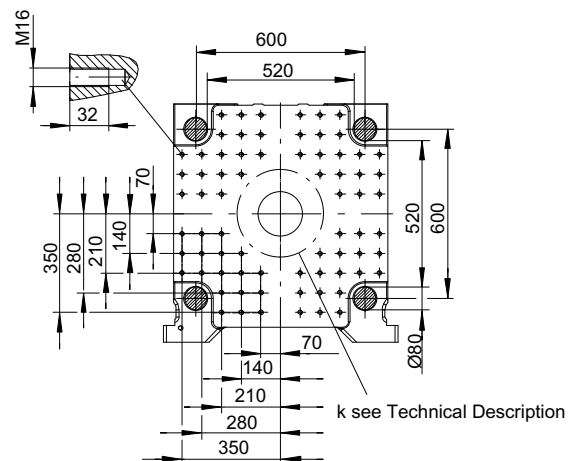
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen
B - B



Fixed platen
A - A



⌀ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 210								
International size description	2100-600			2100-840			2100-1450		
Clamping unit	210 / 580								
Clamping force / locking force, max. [kN]	2100 / 2310								
Mould opening stroke, max. [mm]	575								
Mould height, min. / max.:									
>Standard OP0210 [mm]	340 / 690								
>Increased OP0211 [mm]	340 / 790								
Distance between tie bars (h x v) [mm]	580 x 580								
Min. permissible mould diameter (k) [mm]	350								
Mould weight / mov. / fixed, max. [kg]	3300 / 2000 / 2500								
Ejector stroke/force forw./force back.:									
>Standard OP0219 [mm / kN / kN]	180 / 73 / 36								
Injection unit	600			840			1450		
Screw diameter [mm]	40	45	50	45	50	60	50	60	70
L/D ratio OP0610 / OP0611	20	20	20	20	20	20	20	20	20
L/D ratio OP0612 / OP0627 ¹⁾	25	25	-	25	25	-	25	25	-
Injection pressure, max. (up to 400 °C) [bar]	2418	1914	1550	2402	1946	1351	2426	1905	1400
Injection volume, max. [cm ³]	255	323	399	358	442	636	530	763	1039
Injection speed, max.:									
>Standard OP0105 [mm/s]	149	149	149	119	119	119	84	84	84
>Increased OP0106 [mm/s]	199	199	199	159	159	159	113	113	113
>Version accumulator OP0361 ¹⁾ [mm/s]	610	610	-	550	510	-	510	450	-
Injection rate, max.:									
>Standard OP0105 [cm ³ /s]	188	238	293	189	234	337	166	239	325
>Increased OP0106 [cm ³ /s]	250	317	391	252	312	449	221	318	433
>Version accumulator OP0361 ¹⁾ [cm ³ /s]	767	970	-	875	1001	-	1001	1272	-
Plasticising rate, max. (PS): ²⁾									
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	32 / 32	40 / 40	57 / 57	30 / 40	42 / 57	66 / 88	30 / 40	47 / 63	67 / 89
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	25 / 25	32 / 32	46 / 46	21 / 28	30 / 40	47 / 63	19 / 25	29 / 39	41 / 56
>Electr. screw drive OP0313 [g/s]	38	47	68	53	76	89	64	100	113
Nozzle stroke, max.: ³⁾									
>Manual mode [mm]	485	479	406	621	647	571	787	671	587
>Automatic mode [mm]	329	304	277	515	506	476	506	476	462
Nozzle sealing force / speed, max.:									
>Standard [kN / mm/s]	80	80	80	110	110	110	110	110	110
General data	210/580-600			210/580-840			210/580-1450		
Oil tank capacity [l]	290			290			290		
Installed electrical rating:									
>Pump capacity single pump ⁵⁾ [kW]	26 / 51			26 / 51			26 / 51		
>Electr. screw drive OP0313 [kW]	24,5	24,5	24,5	35	35	35	36	36	36
>Heating capacity of screw cylinder ⁷⁾ [kW]	11,1 / 13,9	11,3 / 15,7	15,7 / -	13 / 15,7	14,8 / 22,3	23,1 / -	14,8 / 18,3	23,1 / 27,9	27 / -
Dry cycle time (Euromap 6):									
>Standard OP0105 [s-mm]	1,5 - 406			1,5 - 406			1,5 - 406		
>Increased OP0106 ¹⁾ [s-mm]	1,4 - 406			1,4 - 406			1,4 - 406		
Net weight ⁴⁾ [kg]	8589			8999			10836		
Motor end projection, max. (h):									
>Hyd. motor 1 OP0310 [mm]	144	294	384	1133	1313	1533	1645	1825	2045
>Hyd. motor 2 OP0311 [mm]	144	294	384	1133	1313	1533	1645	1825	2045
>Electr. screw drive OP0313 ⁷⁾ [mm]	464 / 614	614 / 789	704 / -	1322 / 1502	1502 / 1722	1722 / -	1834 / 2014	2014 / 2234	2234 / -

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

¹⁾ With systec SP chooseable.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

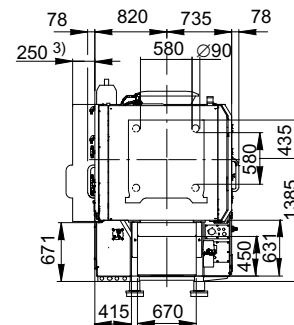
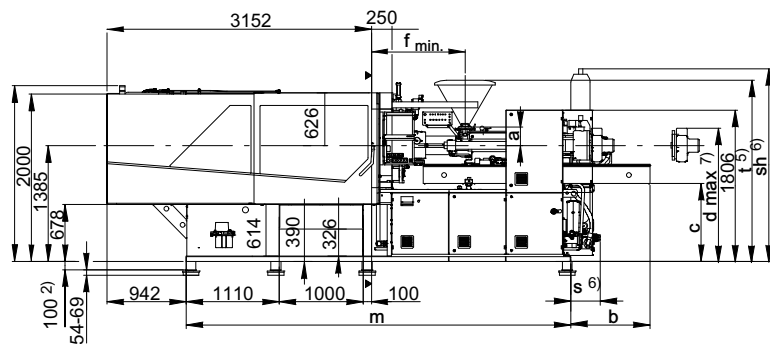
⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment.

⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

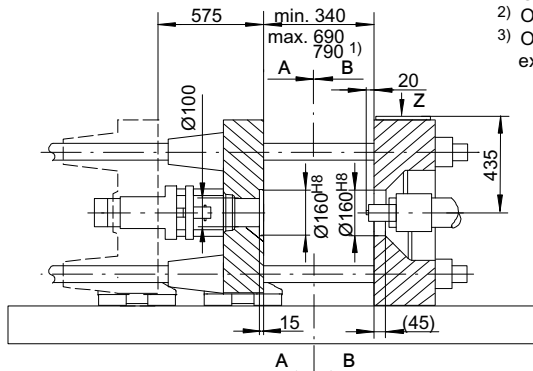
⁷⁾ L/D=20 / L/D=25

Machine dimensions Systec 210



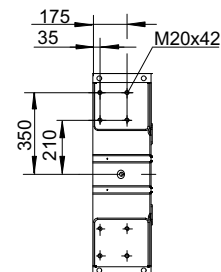
- 1) OP0211 Mould height increased
- 2) OP0122 Machine height increase
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 210

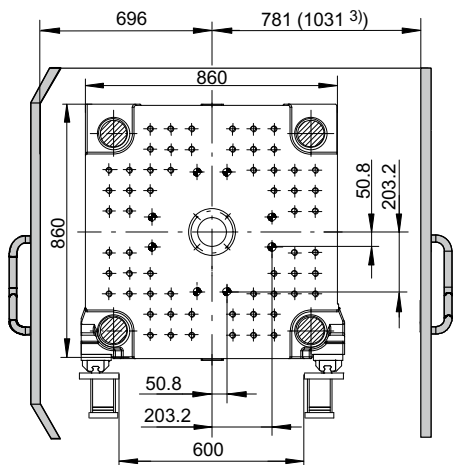


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

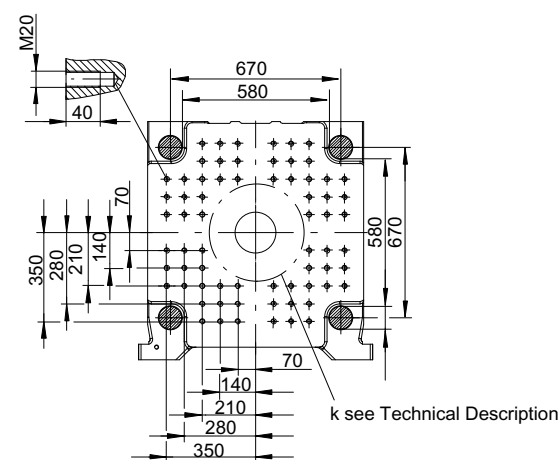
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen
B - B



Fixed platen
A - A



⊕ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 280								
International size description	2800-840			2800-1450			2800-2300		
Clamping unit	280 / 630								
Clamping force / locking force, max. [kN]	2800 / 3080								
Mould opening stroke, max. [mm]	675								
Mould height, min. / max.:									
>Standard OP0210 [mm]	330 / 710								
>Increased OP0211 [mm]	330 / 830								
Distance between tie bars (h x v) [mm]	630 x 630								
Min. permissible mould diameter (k) [mm]	400								
Mould weight / mov. / fixed, max. [kg]	4300 / 2500 / 3300								
Ejector stroke/force forw./force back.:									
>Standard OP0219 [mm / kN / kN]	200 / 73 / 36								
Injection unit	840			1450			2300		
Screw diameter [mm]	45	50	60	50	60	70	60	70	80
L/D ratio OP0610 / OP0611	20	20	20	20	20	20	20	20	20
L/D ratio OP0612 / OP0627 ¹⁾	25	25	-	25	25	-	25	25	-
Injection pressure, max. (up to 400 °C) [bar]	2402	1946	1351	2426	1905	1400	2426	1877	1437
Injection volume, max. [cm ³]	358	442	636	530	763	1039	891	1212	1583
Injection speed, max.:									
>Standard OP0105 [mm/s]	119	119	119	84	84	84	63	63	63
>Increased OP0106 [mm/s]	159	159	159	113	113	113	84	84	84
>Version accumulator OP0361 ¹⁾ [mm/s]	550	510	-	510	450	-	450	380	-
Injection rate, max.:									
>Standard OP0105 [cm ³ /s]	189	234	337	166	239	325	178	242	317
>Increased OP0106 [cm ³ /s]	252	312	449	221	318	433	237	323	422
>Version accumulator OP0361 ¹⁾ [cm ³ /s]	875	1001	-	1001	1272	-	1272	1462	-
Plasticising rate, max. (PS): ²⁾									
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	30 / 40	42 / 57	66 / 88	30 / 40	47 / 63	67 / 89	29 / 39	41 / 56	58 / 79
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	21 / 28	30 / 40	47 / 63	19 / 25	29 / 39	41 / 56	20 / 28	29 / 40	41 / 55
>Electr. screw drive OP0313 [g/s]	53	76	89	64	100	113	84	121	117
Nozzle stroke, max.: ³⁾									
>Manual mode [mm]	832	716	632	832	716	632	946	642	603
>Automatic mode [mm]	551	521	507	551	521	507	581	567	570
Nozzle sealing force / speed, max.:									
>Standard [kN / mm/s]	110	110	110	110	110	110	110	110	110
General data	280/630-840			280/630-1450			280/630-2300		
Oil tank capacity [l]	350			350			350		
Installed electrical rating:									
>Pump capacity single pump ⁵⁾ [kW]	26 / 51			26 / 51			26 / 51		
>Electr. screw drive OP0313 [kW]	35	35	35	36	36	36	46	46	46
>Heating capacity of screw cylinder ⁷⁾ [kW]	13 / 15,7	14,8 / 22,3	23,1 / -	14,8 / 18,3	23,1 / 27,9	27 / -	23,1 / 27,9	27 / 32,2	30,6 / -
Dry cycle time (Euromap 6):									
>Standard OP0105 [s-mm]	1,85 - 441			1,85 - 441			1,85 - 441		
>Increased OP0106 ¹⁾ [s-mm]	1,65 - 441			1,65 - 441			1,65 - 441		
Net weight ⁴⁾ [kg]	12957			13220			13577		
Motor end projection, max. (h):									
>Hyd. motor 1 OP0310 [mm]	692	872	1092	1329	1509	1729	1672	1672	1852
>Hyd. motor 2 OP0311 [mm]	692	872	1092	1329	1509	1729	1672	1672	1852
>Electr. screw drive OP0313 ⁷⁾ [mm]	881 / 1061	1061 / 1281	1281 / -	1518 / 1509	1698 / 1729	1918 / -	1827 / 1827	1827 / 2227	2007 / -

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

¹⁾ With systec SP chooseable.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

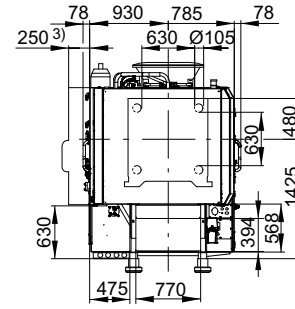
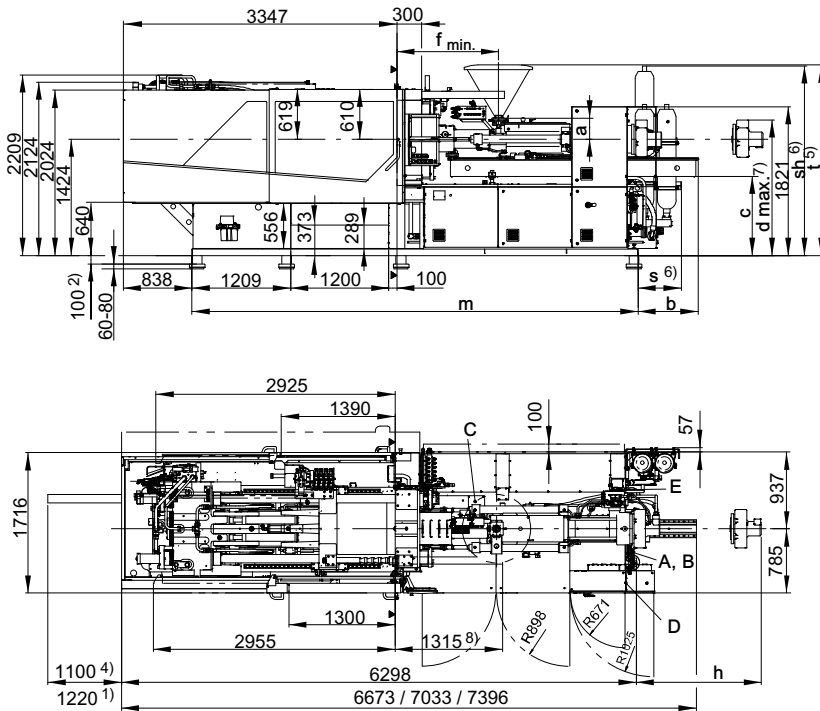
⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment.

⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

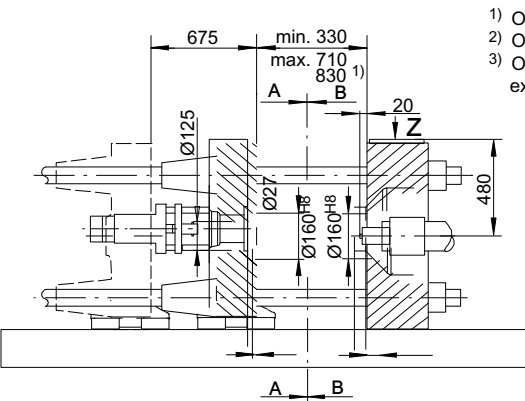
⁷⁾ L/D=20 / L/D=25

Machine dimensions Systec 280



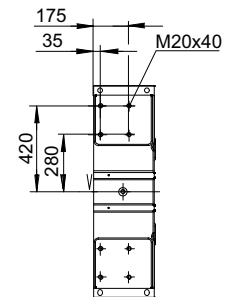
- 1) OP0211 Mould height increased
- 2) OP0122 Machine height increase
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- 8) OP0287 Stop bar
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 280

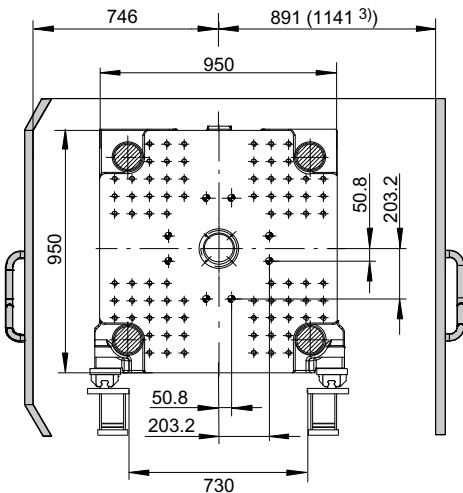


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

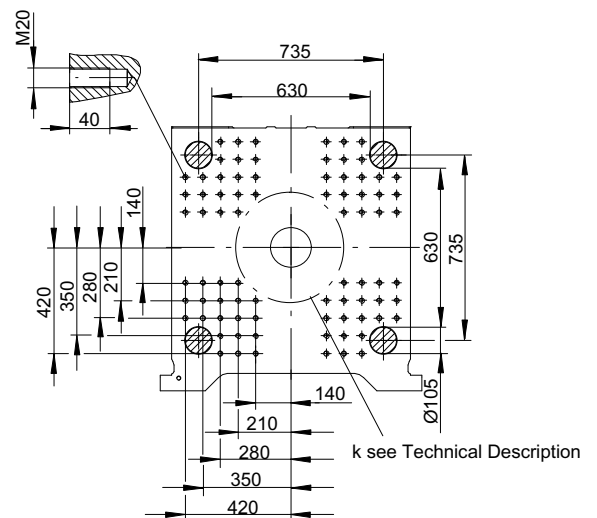
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen
B - B



Fixed platen
A - A



◆ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 350								
International size description	3500-840			3500-01450			3500-2300		
Clamping unit	350 / 720								
Clamping force / locking force, max. [kN]	3500 / 3850								
Mould opening stroke, max. [mm]	730								
Mould height, min. / max.:									
>Standard OP0210 [mm]	350 / 745								
>Increased OP0211 [mm]	350 / 950								
Distance between tie bars (h x v) [mm]	720 x 720								
Min. permissible mould diameter (k) [mm]	400								
Mould weight / mov. / fixed, max. [kg]	4700 / 2650 / 3600								
Ejector stroke/force forw./force back.:									
>Standard OP0219 [mm / kN / kN]	200 / 73 / 36								
Injection unit	840			1450			2300		
Screw diameter [mm]	45	50	60	50	60	70	60	70	80
L/D ratio OP0610 / OP0611	20	20	20	20	20	20	20	20	20
L/D ratio OP0612 / OP0627 ¹⁾	25	25	-	25	25	-	25	25	-
Injection pressure, max. (up to 400 °C) [bar]	2402	1946	1351	2426	1905	1400	2426	1877	1437
Injection volume, max. [cm ³]	358	442	636	530	763	1039	891	1212	1583
Injection speed, max.:									
>Standard OP0105 [mm/s]	159	159	159	113	113	113	84	84	84
>Increased OP0106 [mm/s]	201	201	201	142	142	142	108	108	108
>Version accumulator OP0361 ¹⁾ [mm/s]	550	510	-	510	450	-	450	380	-
Injection rate, max.:									
>Standard OP0105 [cm ³ /s]	252	312	449	221	318	433	237	323	422
>Increased OP0106 [cm ³ /s]	319	394	568	280	403	548	307	417	545
>Version accumulator OP0361 ¹⁾ [cm ³ /s]	875	1001	-	1001	1272	-	1272	1462	-
Plasticising rate, max. (PS): ²⁾									
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	40 / 49	57 / 70	88 / 110	40 / 50	63 / 78	89 / 111	39 / 49	56 / 70	79 / 97
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	28 / 35	40 / 50	63 / 78	25 / 31	39 / 49	56 / 70	28 / 34	40 / 49	55 / 69
>Electr. screw drive OP0313 [g/s]	53	76	89	64	100	113	84	121	117
Nozzle stroke, max.: ³⁾									
>Manual mode [mm]	751	777	701	917	801	717	1031	727	688
>Automatic mode [mm]	645	636	606	636	606	592	666	652	655
Nozzle sealing force / speed, max.:									
>Standard [kN / mm/s]	110	110	110	110	110	110	110	110	110
General data	350/720-840			350/720-1450			350/720-2300		
Oil tank capacity [l]	350								
Installed electrical rating:									
>Pump capacity single pump ⁵⁾ [kW]	51 / 59								
>Electr. screw drive OP0313 [kW]	35	35	35	36	36	36	46	46	46
>Heating capacity of screw cylinder ⁷⁾ [kW]	13 / 15,7	14,8 / 22,3	23,1 / -	14,8 / 18,3	23,1 / 27,9	27 / -	23,1 / 27,9	27 / 32,2	30,6 / -
Dry cycle time (Euromap 6):									
>Standard OP0105 [s-mm]	2,1 - 504								
>Increased OP0106 ¹⁾ [s-mm]	1,85 - 504								
Net weight ⁴⁾ [kg]	14795			15372			15624		
Motor end projection, max. (h):									
>Hyd. motor 1 OP0310 [mm]	684	864	1084	1406	1586	1806	1749	1749	1929
>Hyd. motor 2 OP0311 [mm]	684	864	1084	1406	1586	1806	1749	1749	1929
>Electr. screw drive OP0313 ⁷⁾ [mm]	873 / 1053	1053 / 1273	1273 / -	1595 / 1775	1775 / 1995	1995 / -	1749 / 1904	1749 / 2304	1929 / -

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

¹⁾ With systec SP chooseable.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

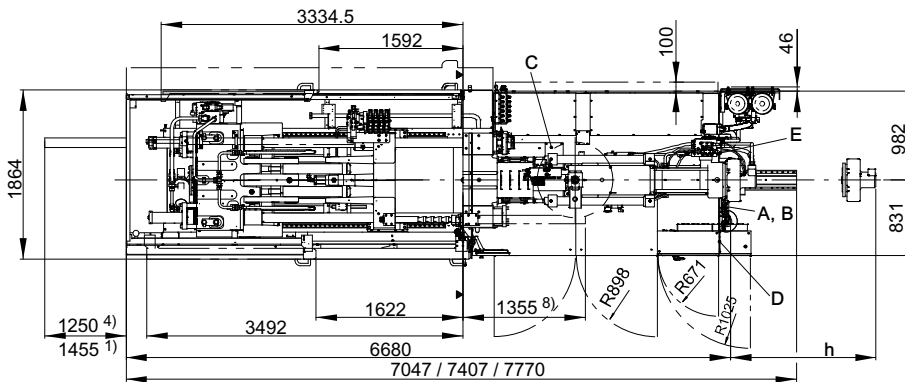
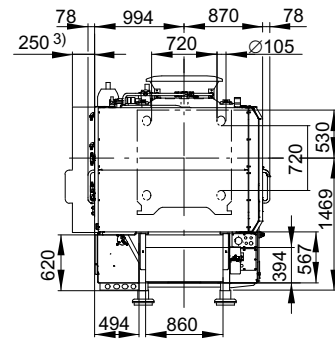
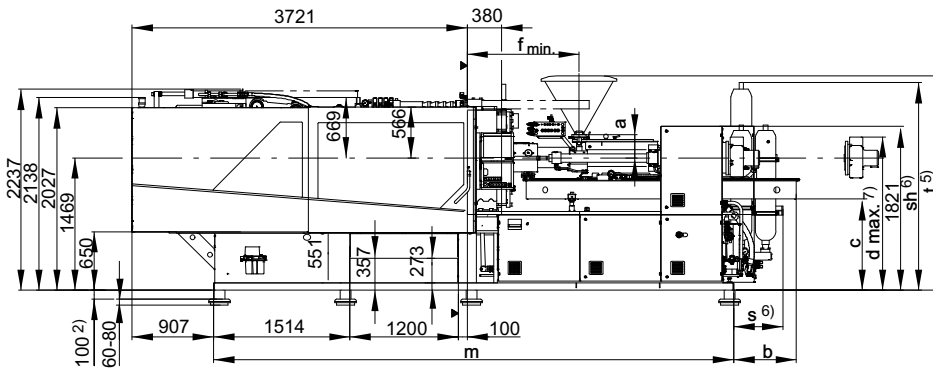
⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment.

⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

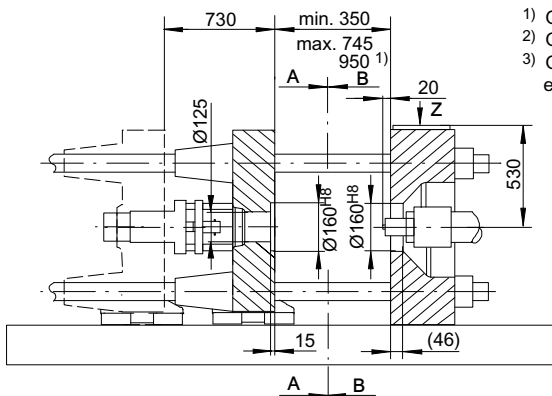
⁷⁾ L/D=20 / L/D=25

Machine dimensions Systec 350



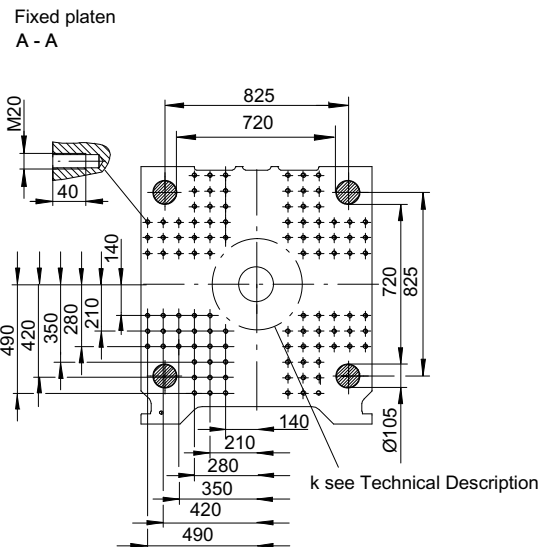
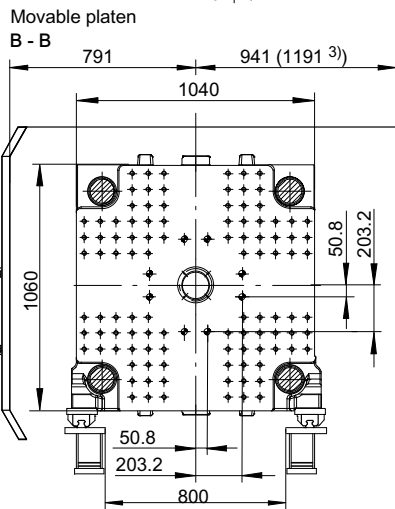
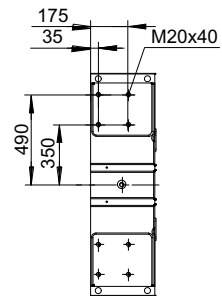
- 1) OP0211 Mould height increased
- 2) OP0122 Machine height increase
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- 8) OP0287 Stop bar
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP205) Systec 350



- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

Z Hole pattern for robot/sprue picker on fixed platen 2)



◆ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 420								
International size description	4200-1450			4200-2300			4200-3300		
Clamping unit	420 / 820								
Clamping force / locking force, max. [kN]	4200 / 4620								
Mould opening stroke, max. [mm]	770								
Mould height, min. / max.:									
>Standard OP0210 [mm]	380 / 825								
>Increased OP0211 [mm]	380 / 1050								
Distance between tie bars (h x v) [mm]	820 x 820								
Min. permissible mould diameter (k) [mm]	420								
Mould weight / mov. / fixed, max. [kg]	6600 / 3800 / 5100								
Ejector stroke/force forw./force back.:									
>Standard OP0219 [mm / kN / kN]	230 / 96 / 42								
Injection unit	1450			2300			3300		
Screw diameter [mm]	50	60	70	60	70	80	70	80	95
L/D ratio OP0610 / OP0611	20	20	20	20	20	20	23	20	20
L/D ratio OP0612 / OP0627 ¹⁾	25	25	-	25	25	-	25	24	-
Injection pressure, max. (up to 400 °C) [bar]	2426	1905	1400	2426	1877	1437	2423	1855	1316
Injection volume, max. [cm ³]	530	763	1039	891	1212	1583	1362	1779	2509
Injection speed, max.:									
>Standard OP0105 [mm/s]	113	113	113	84	84	84	65	65	65
>Increased OP0106 [mm/s]	142	142	142	108	108	108	82	82	82
>Version accumulator OP0361 ¹⁾ [mm/s]	510	450	-	450	380	-	380	320	-
Injection rate, max.:									
>Standard OP0105 [cm ³ /s]	221	318	433	237	323	422	250	327	461
>Increased OP0106 [cm ³ /s]	280	403	548	307	417	545	317	413	583
>Version accumulator OP0361 ¹⁾ [cm ³ /s]	1001	1272	-	1272	1462	-	1462	1608	-
Plasticising rate, max. (PS): ²⁾									
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	40 / 50	63 / 78	89 / 111	39 / 49	56 / 70	79 / 97	40 / 49	55 / 69	89 / 110
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	25 / 31	39 / 49	56 / 70	28 / 34	40 / 49	55 / 69	26 / 33	37 / 46	59 / 74
>Electr. screw drive OP0313 [g/s]	64	100	113	84	121	117	105	147	180
Nozzle stroke, max.: ³⁾									
>Manual mode [mm]	937	821	737	1051	747	708	918	918	551
>Automatic mode [mm]	656	626	612	686	672	675	650	650	587
Nozzle sealing force / speed, max.:									
>Standard [kN / mm/s]	110	110	110	110	110	110	110	110	110
General data	420/820-1450			420/820-2300			420/820-3300		
Oil tank capacity [l]	430			430			430		
Installed electrical rating:									
>Pump capacity single pump ⁵⁾ [kW]	51 / 59			51 / 59			51 / 59		
>Electr. screw drive OP0313 [kW]	36	36	36	46	46	46	76	76	76
>Heating capacity of screw cylinder ⁷⁾ [kW]	14,8 / 18,3	23,1 / 27,9	27 / -	23,1 / 27,9	27 / 32,2	30,6 / -	30,6 / 32,2	30,6 / 42,6	42,6 / -
Dry cycle time (Euromap 6):									
>Standard OP0105 [s-mm]	2,5 - 574			2,5 - 574			2,5 - 574		
>Increased OP0106 ¹⁾ [s-mm]	2,25 - 574			2,25 - 574			2,25 - 574		
Net weight ⁴⁾ [kg]	19719			20496			24171		
Motor end projection, max. (h):									
>Hyd. motor 1 OP0310 [mm]	457	637	857	1010	1010	1190	2097	2097	2097
>Hyd. motor 2 OP0311 [mm]	457	637	857	1010	1010	1190	2097	2097	2369
>Electr. screw drive OP0313 ⁷⁾ [mm]	646 / 826	826 / 857	1046 / -	1165 / 1010	1165 / 1410	1345 / -	2369 / 2369	2369 / 2369	2369 / -

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

¹⁾ With systec SP chooseable.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

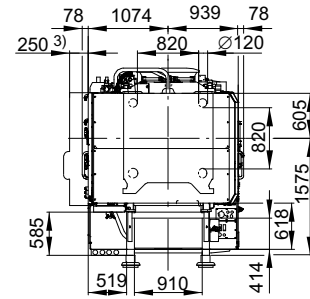
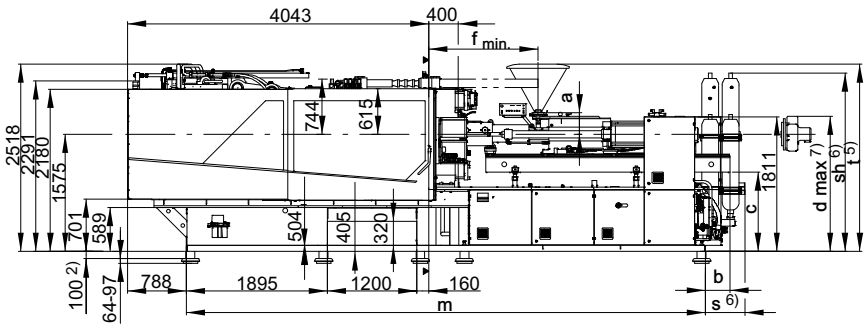
⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment.

⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

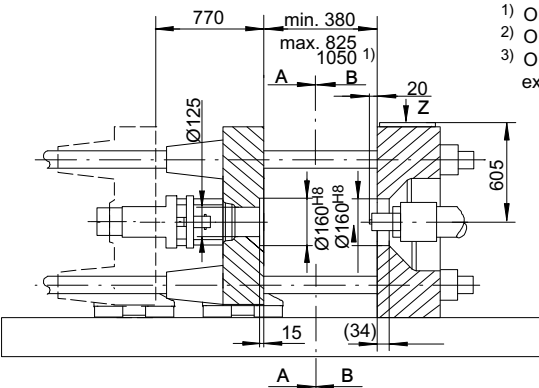
⁷⁾ L/D=20 / L/D=25

Machine dimensions Systemc 420



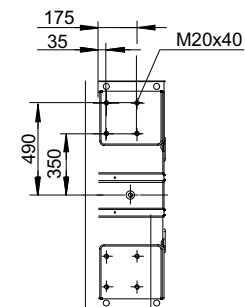
- 1) OP0211 Mould height increased
- 2) OP0122 Machine height increase
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- 8) OP0287 Stop bar
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systemc 420

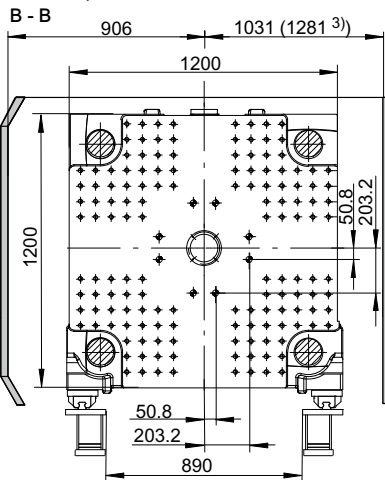


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

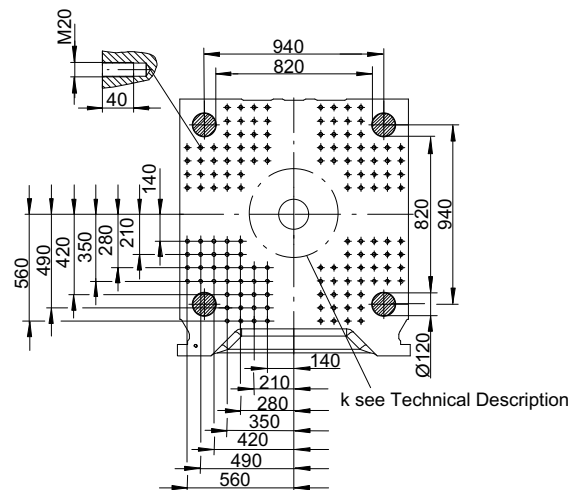
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen



Fixed platen
A - A



◆ Bore diameter throughout

Sumitomo (SHI) Demag		Systec 500								
International size description		5000-2300			5000-3300			5000-6400		
Clamping unit		500 / 920								
Clamping force / locking force, max.	[kN]	5000 / 5500								
Mould opening stroke, max.	[mm]	850								
Mould height, min. / max.:										
>Standard OP0210	[mm]	400 / 920								
>Increased OP0211	[mm]	400 / 1150								
Distance between tie bars (h x v)	[mm]	920 x 920								
Min. permissible mould diameter (k)	[mm]	420								
Mould weight / mov. / fixed, max.	[kg]	8700 / 5200 / 6700								
Ejector stroke/force forw./force back.:										
>Standard OP0219	[mm / kN / kN]	260 / 96 / 42								
Injection unit		2300			3300			6400		
Screw diameter	[mm]	60	70	80	70	80	95	80	95	110
L/D ratio OP0610 / OP0611		20	20	20	23	20	20	24	20	20
L/D ratio OP0612 / OP0627		-	-	-	-	-	-	-	-	-
Injection pressure, max. (up to 400 °C)	[bar]	2420	1877	1437	2423	1855	1316	2391	1895	1413
Injection volume, max.	[cm ³]	891	1212	1583	1362	1779	2509	2388	3367	4514
Injection speed, max.:										
>Standard OP0105	[mm/s]	88	88	88	83	83	83	81	81	81
>Increased OP0106	[mm/s]	107	107	107	117	117	117	94	94	94
>Version accumulator OP0361	[mm/s]	450	380	320	380	320	280	320	280	240
Injection rate, max.:										
>Standard OP0105	[cm ³ /s]	248	338	441	320	418	589	407	574	769
>Increased OP0106	[cm ³ /s]	303	413	539	449	586	826	475	670	898
>Version accumulator OP0361	[cm ³ /s]	1272	1462	1608	1462	1608	1985	1608	1985	2281
Plasticising rate, max. (PS): ²⁾										
>Hyd. motor 1 OP0310 ^{5) 6)}	[g/s]	40 / 49	58 / 70	81 / 98	50 / 81	69 / 113	111 / 182	65 / 76	104 / 122	151 / 176
>Hyd. motor 2 OP0311 ^{5) 6)}	[g/s]	28 / 35	41 / 50	57 / 69	33 / 46	46 / 65	74 / 104	43 / 50	69 / 80	99 / 116
>Electr. screw drive OP0313	[g/s]	84	87	93	105	129	155	132	176	187
Nozzle stroke, max.: ³⁾										
>Manual mode	[mm]	1240	936	717	1070	1070	703	1100	1100	657
>Automatic mode	[mm]	766	765	717	728	728	703	708	708	657
Nozzle sealing force / speed, max.:										
>Standard	[kN / mm/s]	110	110	110	110	110	110	110	110	110
General data		500/320-2300			500/320-3300			500/320-6400		
Oil tank capacity ⁸⁾	[l]	912 / 760			912 / 760			912 / 760		
Installed electrical rating:										
>Pump capacity single pump ⁵⁾	[kW]	45 / 55			55 / 75			75 / 90		
>Electr. screw drive OP0313	[kW]	47			76			90		
>Heating capacity of screw cylinder ⁷⁾	[kW]	23	27	31	30,6	30,6	42,6	43	43	59
Dry cycle time (Euromap 6):										
>Standard OP0105	[s-mm]	3,1 - 644			2,6 - 644			2,4 - 644		
>Increased OP0106	[s-mm]	2,6 - 644			2,4 - 644			2,3 - 644		
Net weight ⁴⁾	[kg]	5460 / 19425			6825 / 19425			8295 / 19425		
Motor end projection, max. (h):										
>Hyd. motor 1 OP0310	[mm]	454	454	454	500	500	500	1197	1197	1197
>Hyd. motor 2 OP0311	[mm]	487	487	487	593	593	593	1270	1270	1270
>Electr. screw drive OP0313 ⁷⁾	[mm]	612	612	612	775	775	775	1060	1060	1060

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

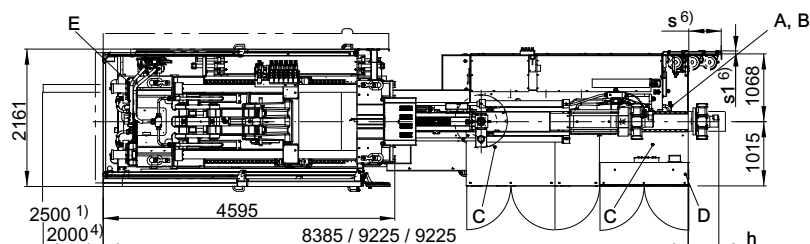
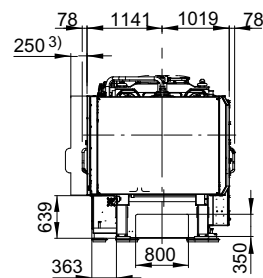
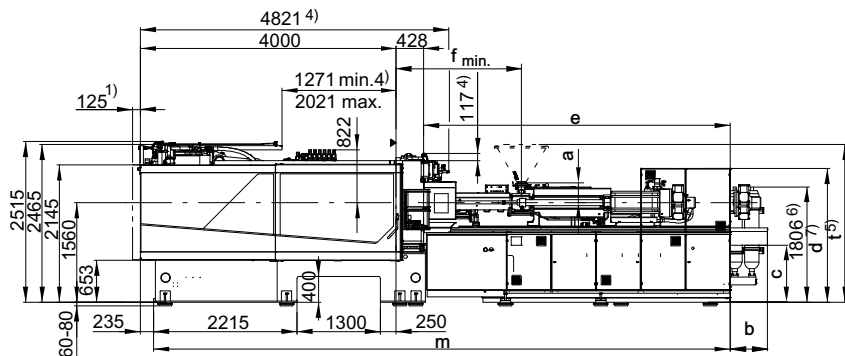
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

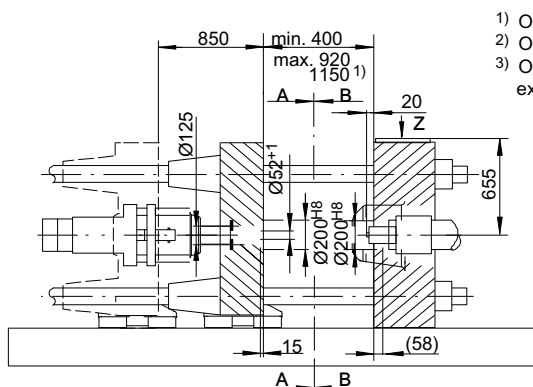
⁸⁾ First filling / operation

Machine dimensions Systec 500



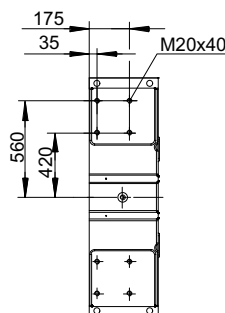
- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 500

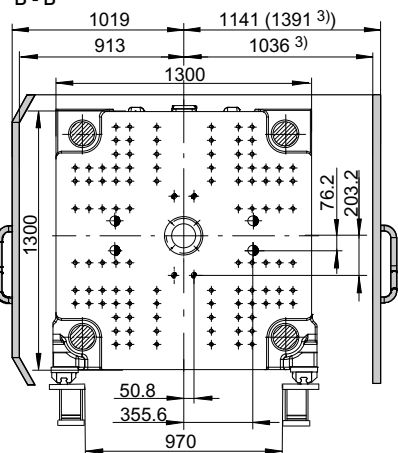


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

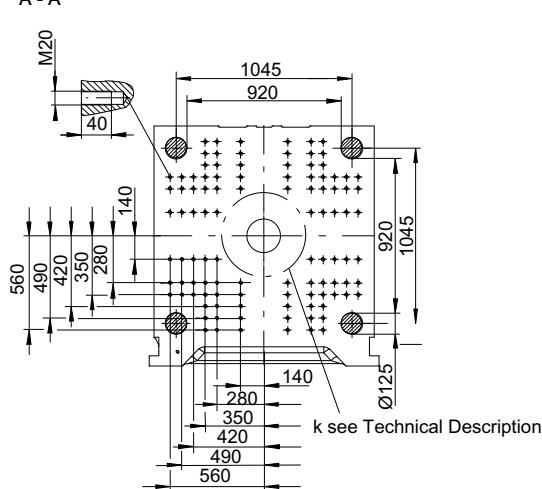
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen
B - B



Fixed platen
A - A



◆ Bore diameter throughout

Sumitomo (SHI) Demag		Systec 650								
International size description		6500-3300			6500-6400			6500-9500		
Clamping unit		650 / 1020								
Clamping force / locking force, max.	[kN]	6500 / 7150								
Mould opening stroke, max.	[mm]	930								
Mould height, min. / max.:										
>Standard OP0210	[mm]	450 / 1020								
>Increased OP0211	[mm]	450 / 1250								
Distance between tie bars (h x v)	[mm]	1020 x 1020								
Min. permissible mould diameter (k)	[mm]	500								
Mould weight / mov. / fixed, max.	[kg]	11200 / 6700 / 8600								
Ejector stroke/force forw./force back.:										
>Standard OP0219	[mm / kN / kN]	300 / 149 / 76								
Injection unit		3300			6400			9500		
Screw diameter	[mm]	70	80	95	80	95	110	95	110	130
L/D ratio OP0610 / OP0611		23	20	20	24	20	20	23	20	20
L/D ratio OP0612 / OP0627		-	-	-	-	-	-	-	-	-
Injection pressure, max. (up to 400 °C)	[bar]	2423	1855	1316	2391	1895	1413	2434	1815	1300
Injection volume, max.	[cm ³]	1362	1779	2509	2388	3367	4514	3367	5227	7300
Injection speed, max.:										
>Standard OP0105	[mm/s]	117	117	117	81	81	81	74	74	74
>Increased OP0106	[mm/s]	136	136	136	94	94	94	90	90	90
>Version accumulator OP0361	[mm/s]	380	320	280	320	280	240	280	240	210
Injection rate, max.:										
>Standard OP0105	[cm ³ /s]	449	586	826	407	574	769	521	699	976
>Increased OP0106	[cm ³ /s]	523	684	964	475	670	898	637	854	1192
>Version accumulator OP0361	[cm ³ /s]	1462	1608	1985	1608	1985	2281	1985	2281	2787
Plasticising rate, max. (PS): ²⁾										
>Hyd. motor 1 OP0310 ^{5) 6)}	[g/s]	69 / 81	97 / 113	156 / 182	65 / 76	104 / 122	151 / 176	80 / 98	116 / 141	164 / 200
>Hyd. motor 2 OP0311 ^{5) 6)}	[g/s]	46 / 54	65 / 76	104 / 122	43 / 50	69 / 80	99 / 116	54 / 66	78 / 95	110 / 135
>Electr. screw drive OP0313	[g/s]	105	129	155	132	176	187	182	223	212
Nozzle stroke, max.: ³⁾										
>Manual mode	[mm]	1155	1155	788	1100	1100	657	1340	1340	753
>Automatic mode	[mm]	820	820	788	715	715	657	800	800	753
Nozzle sealing force / speed, max.:										
>Standard	[kN / mm/s]	110	110	110	110	110	110	110	110	110
General data		650/1020-3300			650/1020-6400			650/1020-3500		
Oil tank capacity ⁸⁾	[l]	912 / 760			912 / 760			912 / 760		
Installed electrical rating:										
>Pump capacity single pump ⁵⁾	[kW]	75 / 90			75 / 90			90 / 110		
>Electr. screw drive OP0313	[kW]	76			90			115		
>Heating capacity of screw cylinder ⁷⁾	[kW]	30,6	30,6	42,6	43	43	59	59	59	79
Dry cycle time (Euromap 6):										
>Standard OP0105	[s-mm]	3,3 - 714			3,3 - 714			2,6 - 714		
>Increased OP0106	[s-mm]	2,6 - 714			2,6 - 714			2,2 - 714		
Net weight ⁴⁾	[kg]	6825 / 29295			6825 / 29295			8295 / 29295		
Motor end projection, max. (h):										
>Hyd. motor 1 OP0310	[mm]	495	495	495	1197	1197	1197	647	647	647
>Hyd. motor 2 OP0311	[mm]	588	588	588	1270	1270	1270	647	647	647
>Electr. screw drive OP0313 ⁷⁾	[mm]	770	770	770	1060	1060	1060	594	594	594

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

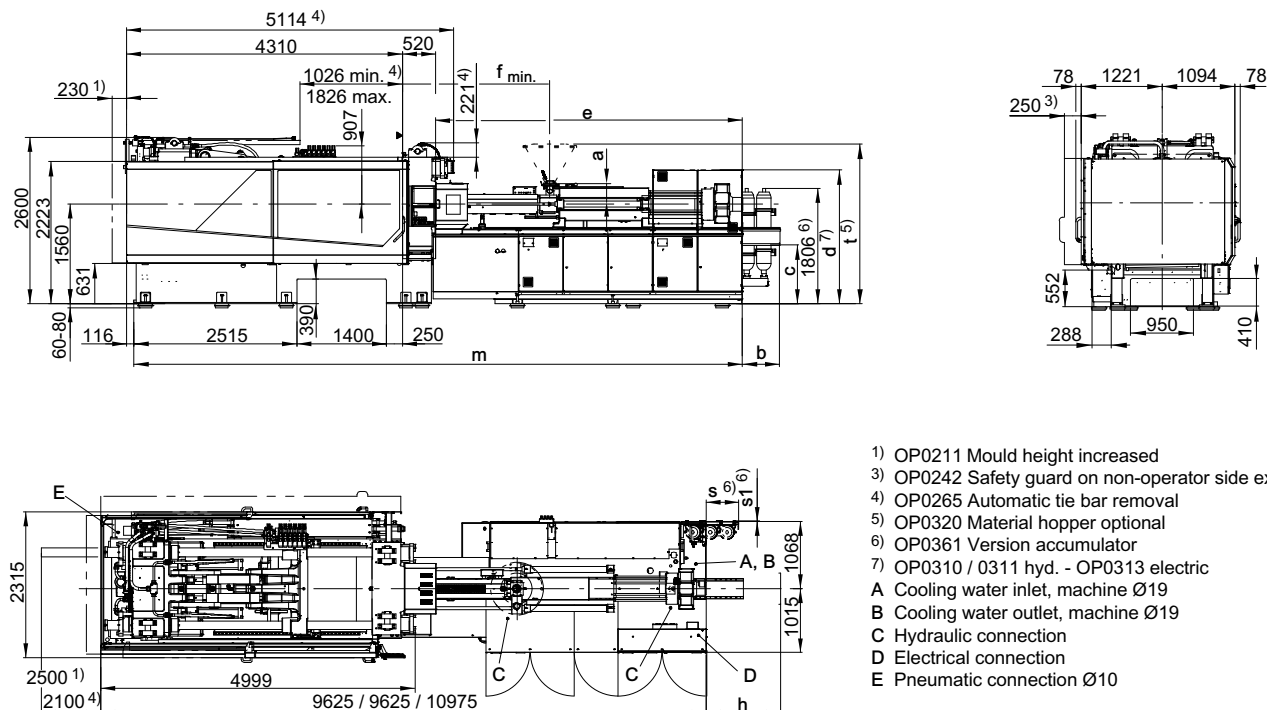
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

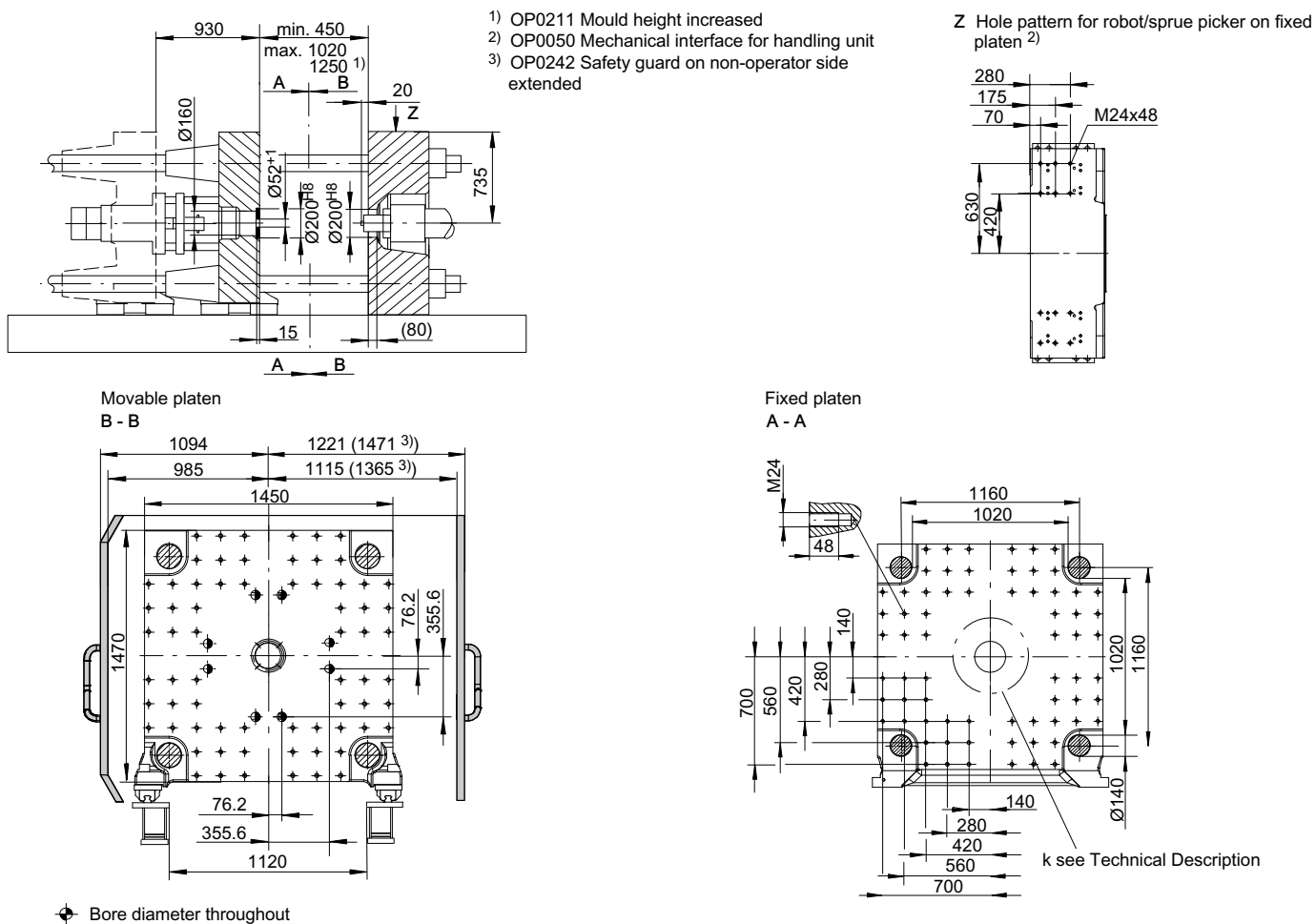
⁸⁾ First filling / operation

Machine dimensions Systec 650



- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 650



◆ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 800						
International size description	8000-6400			8000-9500			
Clamping unit	800 / 1120						
Clamping force / locking force, max.	[kN]	8000 / 8800					
Mould opening stroke, max.	[mm]	1030					
Mould height, min. / max.:							
>Standard OP0210	[mm]	500 / 1120					
>Increased OP0211	[mm]	500 / 1350					
Distance between tie bars (h x v)	[mm]	1120 x 1120					
Min. permissible mould diameter (k)	[mm]	700					
Mould weight / mov. / fixed, max.	[kg]	14000 / 8400 / 10800					
Ejector stroke/force forw./force back.:							
>Standard OP0219	[mm / kN / kN]	350 / 197 / 102					
Injection unit	6400			9500			
Screw diameter	[mm]	80	95	110	95	110	130
L/D ratio OP0610 / OP0611		24	20	20	23	20	20
L/D ratio OP0612 / OP0627		-	-	-	-	-	-
Injection pressure, max. (up to 400 °C)	[bar]	2391	1895	1413	2434	1815	1300
Injection volume, max.	[cm ³]	2388	3367	4514	3367	5227	7300
Injection speed, max.:							
>Standard OP0105	[mm/s]	81	81	81	74	74	74
>Increased OP0106	[mm/s]	94	94	94	90	90	90
>Version accumulator OP0361	[mm/s]	320	280	240	280	240	210
Injection rate, max.:							
>Standard OP0105	[cm ³ /s]	407	574	769	521	699	976
>Increased OP0106	[cm ³ /s]	475	670	898	637	854	1192
>Version accumulator OP0361	[cm ³ /s]	1608	1985	2281	1985	2281	2787
Plasticising rate, max. (PS): ²⁾							
>Hyd. motor 1 OP0310 ^{5) 6)}	[g/s]	65 / 76	104 / 122	151 / 176	80 / 98	116 / 141	164 / 200
>Hyd. motor 2 OP0311 ^{5) 6)}	[g/s]	43 / 50	69 / 80	99 / 116	54 / 66	78 / 95	110 / 135
>Electr. screw drive OP0313	[g/s]	132	176	187	182	223	212
Nozzle stroke, max.: ³⁾							
>Manual mode	[mm]	1246	1246	803	1400	1400	813
>Automatic mode	[mm]	860	860	803	860	860	813
Nozzle sealing force / speed, max.:							
>Standard	[kN / mm/s]	110	110	110	110	110	110
General data	800/1120-6400			800/1120-9500			
Oil tank capacity ⁸⁾	[l]	912 / 760			1560 / 1300		
Installed electrical rating:							
>Pump capacity single pump ⁵⁾	[kW]	75/90			90/110		
>Electr. screw drive OP0313	[kW]	90			115		
>Heating capacity of screw cylinder ⁷⁾	[kW]	43	43	59	59	59	79
Dry cycle time (Euromap 6):							
>Standard OP0105	[s-mm]	3,9 - 784			3,3 - 784		
>Increased OP0106	[s-mm]	3,3 - 784			2,8 - 784		
Net weight ⁴⁾	[kg]	8295 / 39500			10500 / 39500		
Motor end projection, max. (h):							
>Hyd. motor 1 OP0310	[mm]	1191	1191	1191	645	645	645
>Hyd. motor 2 OP0311	[mm]	1264	1264	1264	645	645	645
>Electr. screw drive OP0313 ⁷⁾	[mm]	1054	1054	1054	592	592	592

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

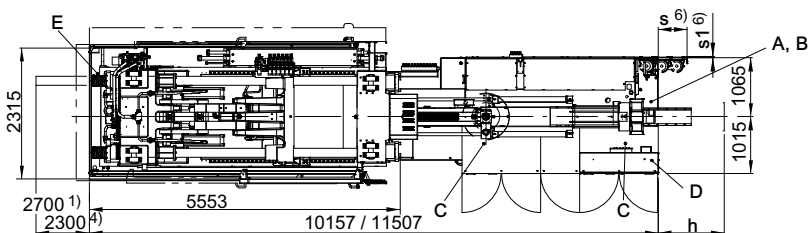
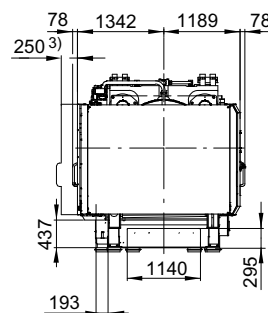
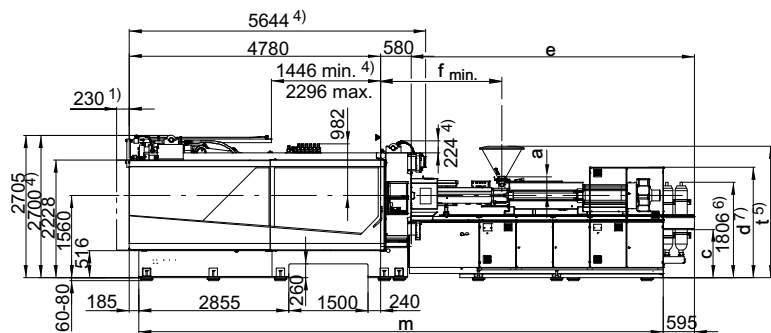
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

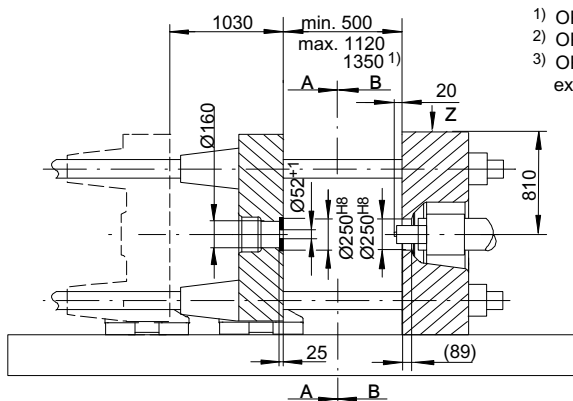
⁸⁾ First filling / operation

Machine dimensions Systec 800



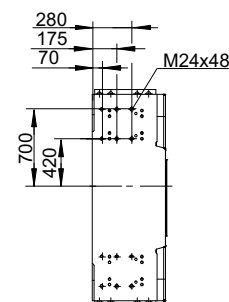
- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 800



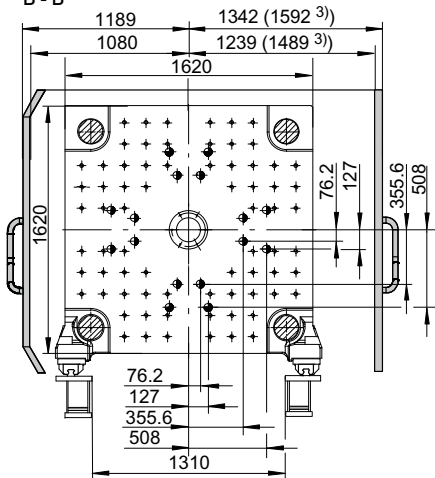
- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

Z Hole pattern for robot/sprue picker on fixed platen (2)



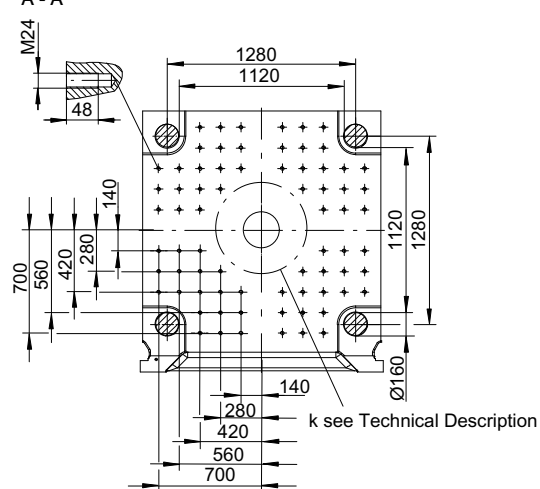
Movable platen

B - B



Fixed platen

A - A



⊕ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 1000					
International size description	10000-6400			10000-9500		
Clamping unit	1000 / 1400					
Clamping force / locking force, max. [kN]	10000 / 11000					
Mould opening stroke, max. [mm]	1250					
Mould height, min. / max.:						
>Standard OP0210 [mm]	500 / 1200					
>Increased OP0211 [mm]	500 / 1500					
Distance between tie bars (h x v) [mm]	1400 / 1120					
Min. permissible mould diameter (k) [mm]	950 x 750					
Mould weight / mov. / fixed, max. [kg]	16000 / 10700 / 10800					
Ejector stroke/force forw./force back.:						
>Standard OP0219 [mm / kN / kN]	350 / 233 / 121					
Injection unit	6400			9500		
Screw diameter [mm]	80	95	110	95	110	130
L/D ratio OP0610 / OP0611	24	20	20	23	20	20
L/D ratio OP0612 / OP0627				-	-	-
Injection pressure, max. (up to 400 °C) [bar]	2380	1832	1413	2434	1815	1300
Injection volume, max. [cm ³]	2388	3367	4514	3367	5227	7300
Injection speed, max.:						
>Standard OP0105 [mm/s]	81	81	81	74	74	74
>Increased OP0106 [mm/s]	94	94	94	90	90	90
>Version accumulator OP0361 [mm/s]	320	280	240	280	240	210
Injection rate, max.:						
>Standard OP0105 [cm ³ /s]	407	574	769	521	699	976
>Increased OP0106 [cm ³ /s]	475	670	898	637	854	1192
>Version accumulator OP0361 [cm ³ /s]	1608	1985	2281	1985	2281	2787
Plasticising rate, max. (PS): ²⁾						
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	65 / 76	104 / 122	151 / 176	80 / 98	116 / 141	164 / 200
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	43 / 50	69 / 80	99 / 116	54 / 66	78 / 95	110 / 135
>Electr. screw drive OP0313 [g/s]	132	176	187	182	223	212
Nozzle stroke, max.: ³⁾						
>Manual mode [mm]	1221	1221	778	1455	1455	868
>Automatic mode [mm]	905	905	778	905	905	868
Nozzle sealing force / speed, max.:						
>Standard [kN / mm/s]	110	110	110	110	110	110
General data	1000/1400-6400			1000/1400-9500		
Oil tank capacity ⁸⁾ [l]	912 / 760			1560 / 1300		
Installed electrical rating:						
>Pump capacity single pump ⁵⁾ [kW]	75 / 90			90 / 110		
>Electr. screw drive OP0313 [kW]	90			115		
>Heating capacity of screw cylinder ⁷⁾ [kW]	42,6	42,6	59,3	59,3	59,3	79,1
Dry cycle time (Euromap 6):						
>Standard OP0105 [s-mm]	5,6 - 980			5,1 - 980		
>Increased OP0106 [s-mm]	5,1 - 980			4,5 - 980		
Net weight ⁴⁾ [kg]	8295 / 57880			10500 / 57880		
Motor end projection, max. (h):						
>Hyd. motor 1 OP0310 [mm]	1131	1131	1131	665	665	665
>Hyd. motor 2 OP0311 [mm]	1204	1204	1204	665	665	665
>Electr. screw drive OP0313 ⁷⁾ [mm]	994	994	994	612	612	612

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

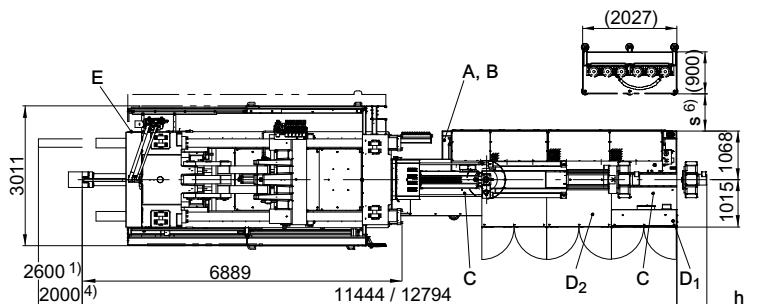
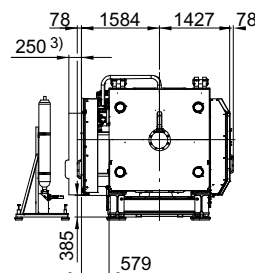
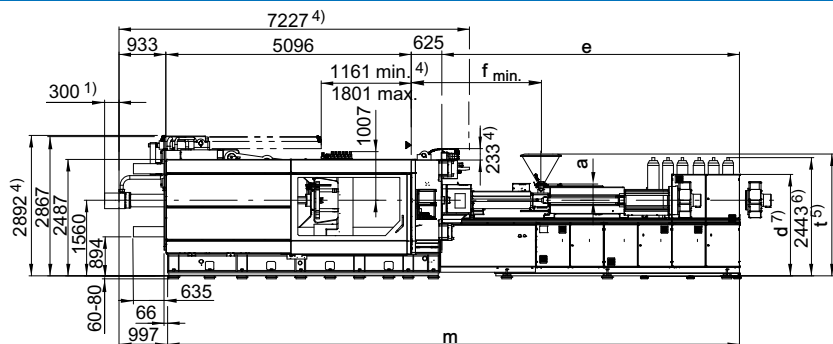
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

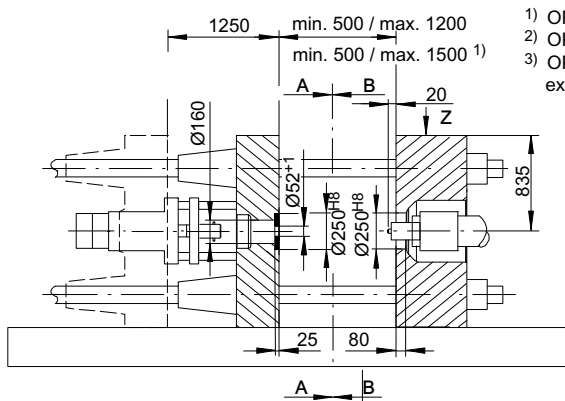
⁸⁾ First filling / operation

Machine dimensions Systec 1000-9500



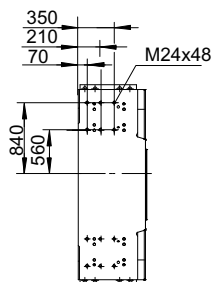
- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 1000-9500

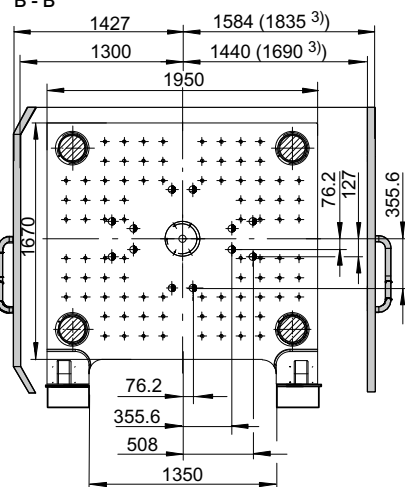


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

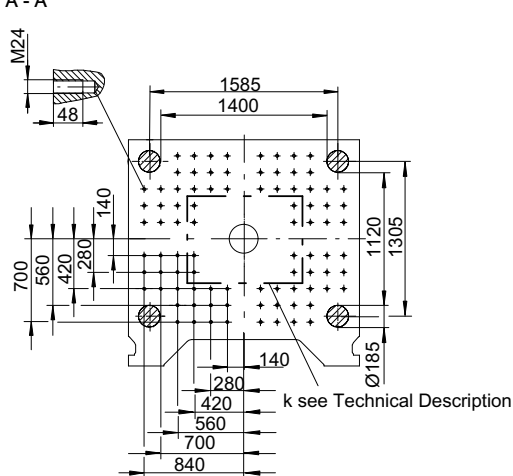
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen
B - B



Fixed platen
A - A



◆ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 1000			
International size description	10000-11500		10000-16000	
Clamping unit	1000 / 1400			
Clamping force / locking force, max. [kN]	10000 / 11000			
Mould opening stroke, max. [mm]	1250			
Mould height, min. / max.:				
>Standard OP0210 [mm]	500 / 1200			
>Increased OP0211 [mm]	500 / 1500			
Distance between tie bars (h x v) [mm]	1400 / 1120			
Min. permissible mould diameter (k) [mm]	950 x 750			
Mould weight / mov. / fixed, max. [kg]	16000 / 10700 / 10800			
Ejector stroke/force forw./force back.:				
>Standard OP0219 [mm / kN / kN]	350 / 233 / 121			
Injection unit	11500		16000	
Screw diameter [mm]	110	130	130	145
L/D ratio OP0610 / OP0611	24	20	20	20
L/D ratio OP0612 / OP0627	-	-	-	-
Injection pressure, max. (up to 400 °C) [bar]	1971	1412	1809	1454
Injection volume, max. [cm ³]	5797	8097	8827	10981
Injection speed, max.:				
>Standard OP0105 [mm/s]	83	83	97	97
>Increased OP0106 [mm/s]	124	124	97	97
>Version accumulator OP0361 [mm/s]	240	205	205	160
Injection rate, max.:				
>Standard OP0105 [cm ³ /s]	786	1098	1284	1598
>Increased OP0106 [cm ³ /s]	1179	1647	1284	1598
>Version accumulator OP0361 [cm ³ /s]	2281	2721	2721	2642
Plasticising rate, max. (PS): ²⁾				
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	114 / 171	162 / 242	135 / 202	167 / 250
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	95 / 143	135 / 202	104 / 156	129 / 193
>Electr. screw drive OP0313 [g/s]	129	126	183	155
Nozzle stroke, max.: ³⁾				
>Manual mode [mm]	860	860	860	860
>Automatic mode [mm]	-	-	-	-
Nozzle sealing force / speed, max.:				
>Standard [kN / mm/s]	110	110	110	110
General data	1000/1400-11500		1000/1400-16000	
Oil tank capacity ⁸⁾ [l]	2400 / 2000		2400 / 2000	
Installed electrical rating:				
>Pump capacity single pump ⁵⁾ [kW]	110 / 165		110 / 165	
>Electr. screw drive OP0313 [kW]	115		147	
>Heating capacity of screw cylinder ⁷⁾ [kW]	79,1	79,1	79,1	97,2
Dry cycle time (Euromap 6):				
>Standard OP0105 [s-mm]	4,5- 980		4,5 - 980	
>Increased OP0106 [s-mm]	3,8 - 980		3,8- 980	
Net weight ⁴⁾ [kg]	16380 / 57880		21000 / 57880	
Motor end projection, max. (h):				
>Hyd. motor 1 OP0310 [mm]	0	0	0	0
>Hyd. motor 2 OP0311 [mm]	0	0	0	70
>Electr. screw drive OP0313 ⁷⁾ [mm]	0	0	0	38

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

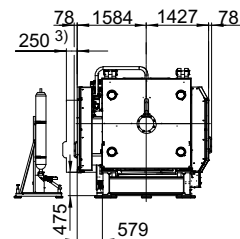
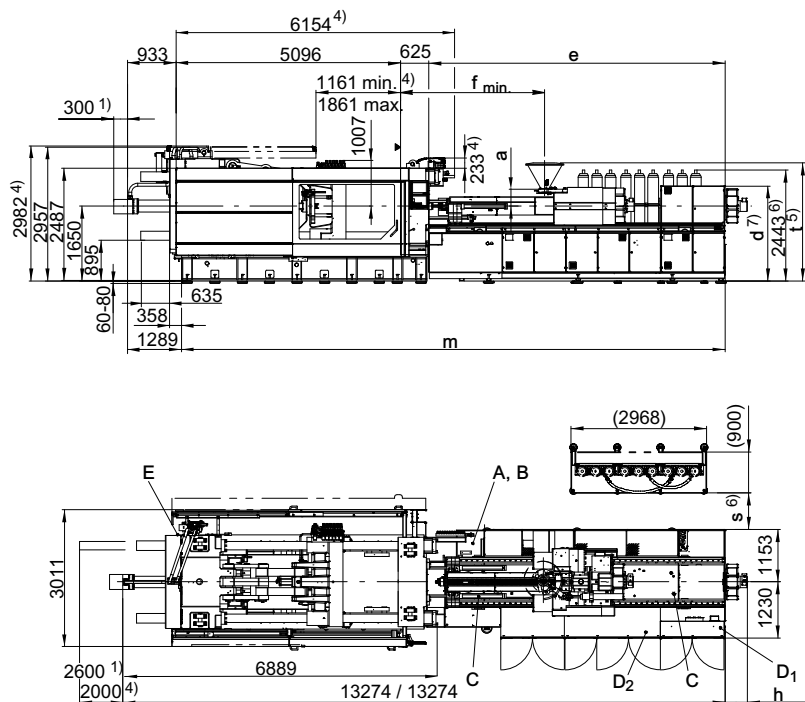
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

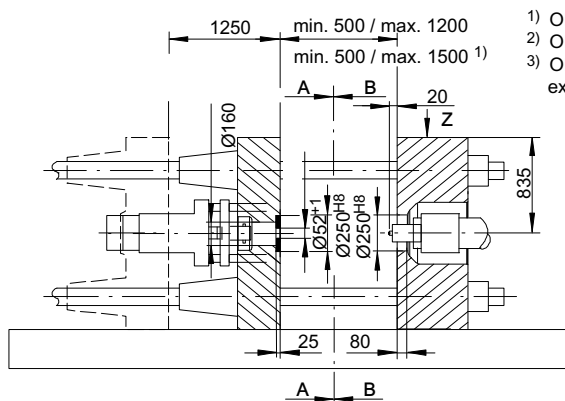
⁸⁾ First filling / operation

Machine dimensions Systec 1000-16000



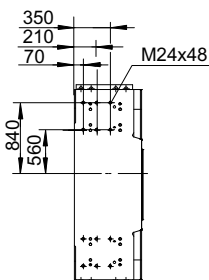
- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 1000-16000

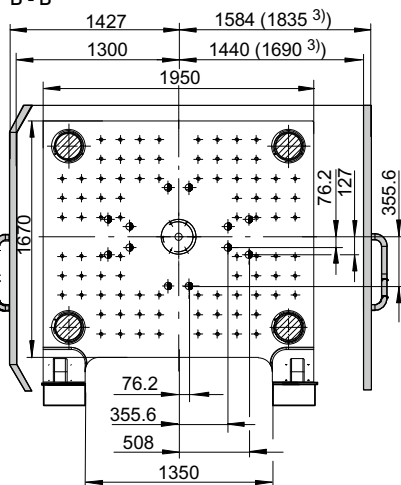


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

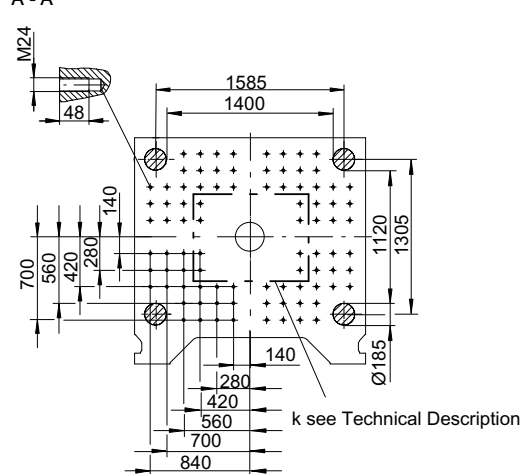
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen
B - B



Fixed platen
A - A



◆ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 1300		
International size description	13000-9500		
Clamping unit	1300 / 1500		
Clamping force / locking force, max. [kN]	13000 / 14300		
Mould opening stroke, max. [mm]	1500		
Mould height, min. / max.:			
>Standard OP0210 [mm]	700 / 1400		
>Increased OP0211 [mm]	700 / 1600		
Distance between tie bars (h x v) [mm]	1500 x 1250		
Min. permissible mould diameter (k) [mm]	1000 x 850		
Mould weight / mov. / fixed, max. [kg]	21000 / 14000 / 14500		
Ejector stroke/force forw./force back.:			
>Standard OP0219 [mm / kN / kN]	350 / 233 / 112		
Injection unit	9500		
Screw diameter [mm]	95	110	130
L/D ratio OP0610 / OP0611	23	20	20
L/D ratio OP0612 / OP0627	-	-	-
Injection pressure, max. (up to 400 °C) [bar]	2434	1815	1300
Injection volume, max. [cm ³]	3367	5227	7300
Injection speed, max.:			
>Standard OP0105 [mm/s]	74	74	74
>Increased OP0106 [mm/s]	90	90	90
>Version accumulator OP0361 [mm/s]	240	220	220
Injection rate, max.:			
>Standard OP0105 [cm ³ /s]	521	699	976
>Increased OP0106 [cm ³ /s]	637	854	1192
>Version accumulator OP0361 [cm ³ /s]	1701	2091	2920
Plasticising rate, max. (PS): ²⁾			
>Hyd. motor 1 OP0310 ^{5) 6)} [g/s]	80 / 98	0 / 141	164 / 200
>Hyd. motor 2 OP0311 ^{5) 6)} [g/s]	54 / 66	0 / 95	110 / 135
>Electr. screw drive OP0313 [g/s]	182	223	212
Nozzle stroke, max.: ³⁾			
>Manual mode [mm]	1490	1490	903
>Automatic mode [mm]	940	940	903
Nozzle sealing force / speed, max.:			
>Standard [kN / mm/s]	110	110	110
General data	1300/1500-9500		
Oil tank capacity ⁸⁾ [l]	1560 / 1300		
Installed electrical rating:			
>Pump capacity single pump ⁵⁾ [kW]	90 / 110		
>Electr. screw drive OP0313 [kW]	115		
>Heating capacity of screw cylinder ⁷⁾ [kW]	59,3	59,3	79,1
Dry cycle time (Euromap 6):			
>Standard OP0105 [s-mm]	8,6 - 1050		
>Increased OP0106 [s-mm]	6,5 - 1050		
Net weight ⁴⁾ [kg]	10500 / 70350		
Motor end projection, max. (h):			
>Hyd. motor 1 OP0310 [mm]	645	645	645
>Hyd. motor 2 OP0311 [mm]	645	645	645
>Electr. screw drive OP0313 ⁷⁾ [mm]	592	592	592

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

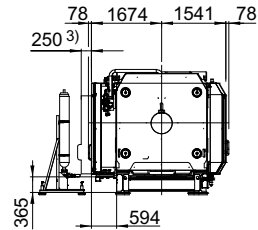
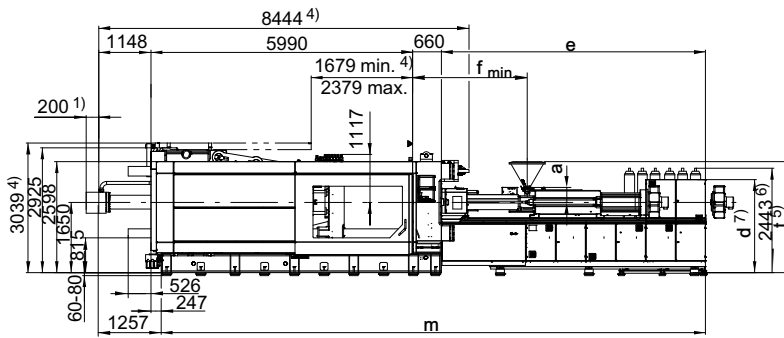
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

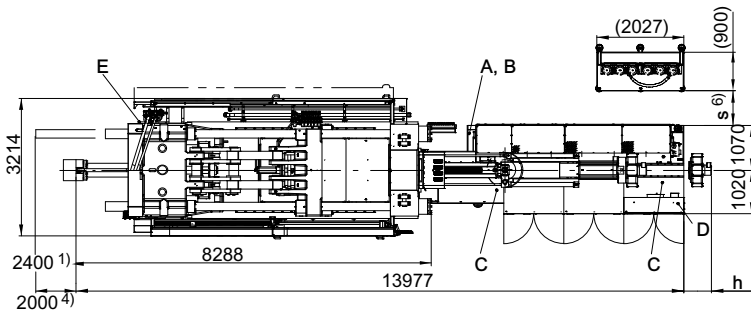
⁷⁾ L/D=20 / L/D=25

⁸⁾ First filling / operation

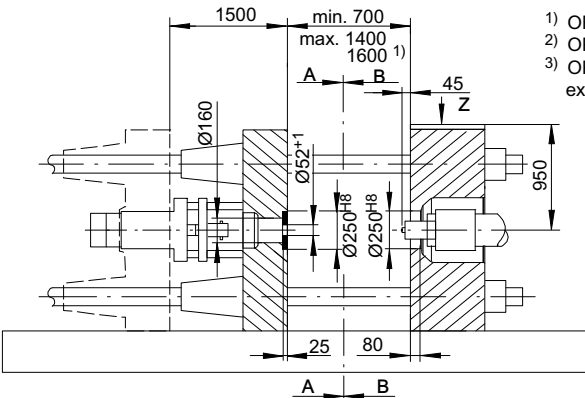
Machine dimensions Systec 1300-9500



- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

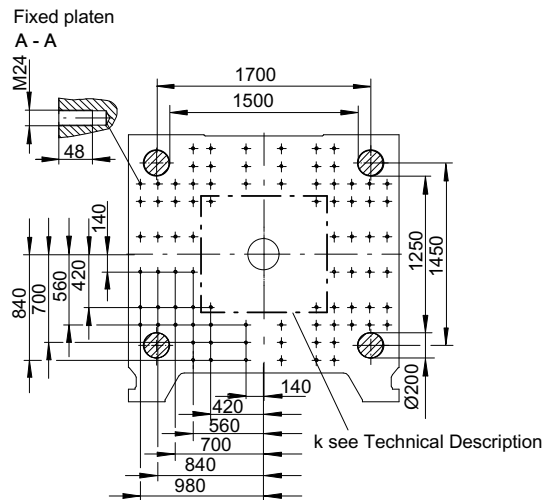
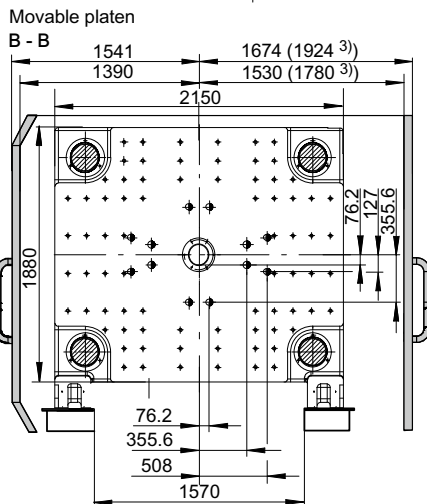
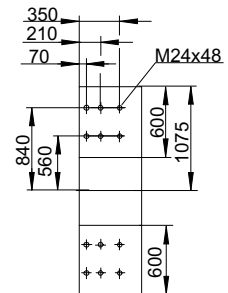


Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 1300-9500



- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

Z Hole pattern for robot/sprue picker on fixed platen 2)



◆ Bore diameter throughout

Sumitomo (SHI) Demag	Systec 1300				
International size description	13000-11500		13000-11500		
Clamping unit	1300 / 1500				
Clamping force / locking force, max.	[kN]	13000 / 14300			
Mould opening stroke, max.	[mm]	1500			
Mould height, min. / max.:					
>Standard OP0210	[mm]	700 / 1400			
>Increased OP0211	[mm]	700 / 1600			
Distance between tie bars (h x v)	[mm]	1500 x 1250			
Min. permissible mould diameter (k)	[mm]	1000 x 850			
Mould weight / mov. / fixed, max.	[kg]	21000 / 14000 / 14500			
Ejector stroke/force forw./force back.:					
>Standard OP0219	[mm / kN / kN]	350 / 233 / 112			
Injection unit	11500		16000		
Screw diameter	[mm]	110	130	130	145
L/D ratio OP0610 / OP0611		24	20	20	20
L/D ratio OP0612 / OP0627		-	-	-	-
Injection pressure, max. (up to 400 °C)	[bar]	1971	1412	1809	1454
Injection volume, max.	[cm ³]	5797	8097	8827	10981
Injection speed, max.:					
>Standard OP0105	[mm/s]	83	83	65	65
>Increased OP0106	[mm/s]	124	124	97	97
>Version accumulator OP0361	[mm/s]	240	220	204	160
Injection rate, max.:					
>Standard OP0105	[cm ³ /s]	786	1098	856	1065
>Increased OP0106	[cm ³ /s]	1179	1647	1284	1598
>Version accumulator OP0361	[cm ³ /s]	2281	2920	2701	2642
Plasticising rate, max. (PS): ²⁾					
>Hyd. motor 1 OP0310 ^{5) 6)}	[g/s]	114 / 171	162 / 242	135 / 202	167 / 250
>Hyd. motor 2 OP0311 ^{5) 6)}	[g/s]	95 / 143	135 / 202	104 / 156	129 / 170
>Electr. screw drive OP0313	[g/s]	129	126	183	155
Nozzle stroke, max.: ³⁾					
>Manual mode	[mm]	860	860	860	860
>Automatic mode	[mm]	860	860	860	860
Nozzle sealing force / speed, max.:					
>Standard	[kN / mm/s]	110	110	110	110
General data	1300/1500-11500		1300/1500-16000		
Oil tank capacity ⁸⁾	[l]	2000 / 2400		2000 / 2400	
Installed electrical rating:					
>Pump capacity single pump ⁵⁾	[kW]	110 / 165		110 / 165	
>Electr. screw drive OP0313	[kW]	115		147	
>Heating capacity of screw cylinder ⁷⁾	[kW]	79,1	79,1	79,1	97,2
Dry cycle time (Euromap 6):					
>Standard OP0105	[s-mm]	6,5 - 1050		6,5 - 1050	
>Increased OP0106	[s-mm]	4,7 - 1050		4,7 - 1050	
Net weight ⁴⁾	[kg]	16380 / 70350		21000 / 70350	
Motor end projection, max. (h):					
>Hyd. motor 1 OP0310	[mm]	0	0	0	0
>Hyd. motor 2 OP0311	[mm]	0	0	0	35
>Electr. screw drive OP0313 ⁷⁾	[mm]	0	0	0	3

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

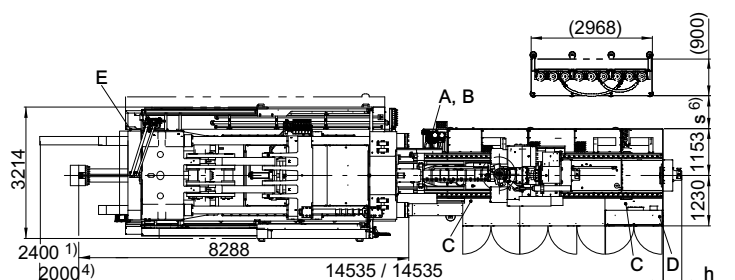
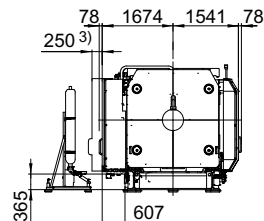
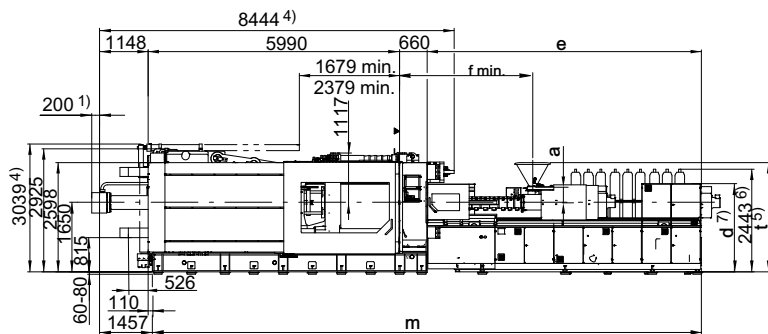
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

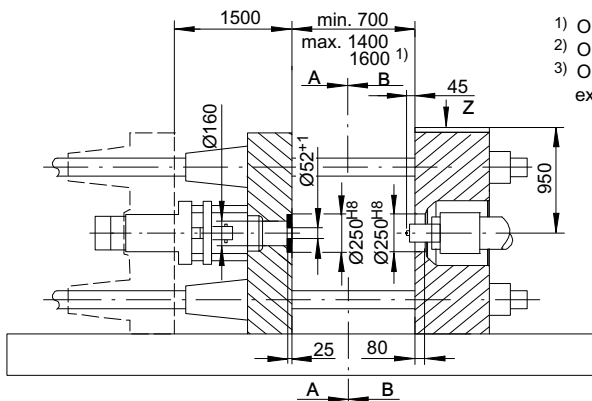
⁸⁾ First filling / operation

Machine dimensions Systec 1300-16000



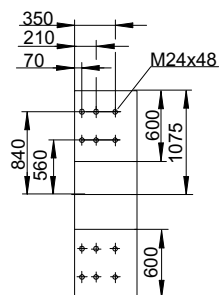
- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 1300-16000

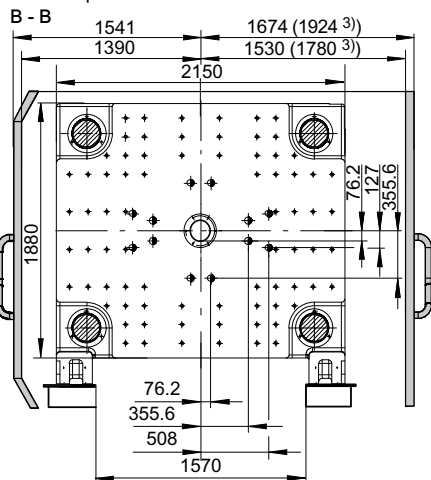


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

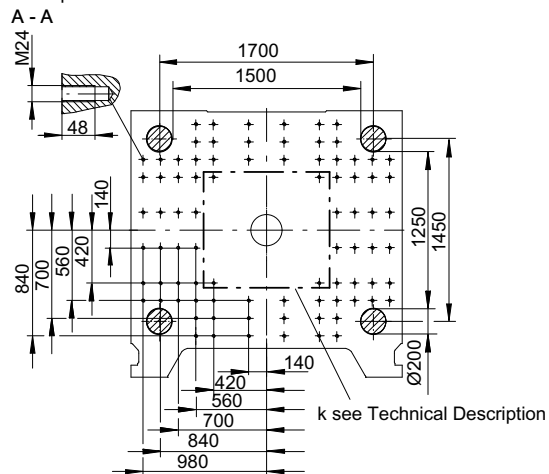
Z Hole pattern for robot/sprue picker on fixed platen 2)



Movable platen



Fixed platen



◆ Bore diameter throughout

Sumitomo (SHI) Demag		Systec 1500			
International size description		15000-11500		15000-16000	
Clamping unit		1500 / 1500			
Clamping force / locking force, max.	[kN]	15000 / 16500			
Mould opening stroke, max.	[mm]	1500			
Mould height, min. / max.:					
>Standard OP0210	[mm]	700 / 1400			
>Increased OP0211	[mm]	700 / 1600			
Distance between tie bars (h x v)	[mm]	1500 x 1250			
Min. permissible mould diameter (k)	[mm]	1000 x 850			
Mould weight / mov. / fixed, max.	[kg]	21000 / 14000 / 14500			
Ejector stroke/force forw./force back.:					
>Standard OP0219	[mm / kN / kN]	350 / 233 / 233			
Injection unit		11500		16000	
Screw diameter	[mm]	110	130	130	145
L/D ratio OP0610 / OP0611		24	20	20	20
L/D ratio OP0612 / OP0627					
Injection pressure, max. (up to 400 °C)	[bar]	1971	1412	1809	1454
Injection volume, max.	[cm ³]	5797	8097	8827	10981
Injection speed, max.:					
>Standard OP0105	[mm/s]	83	83	65	65
>Increased OP0106	[mm/s]	124	124	97	97
>Version accumulator OP0361	[mm/s]	240	220	204	160
Injection rate, max.:					
>Standard OP0105	[cm ³ /s]	786	1098	856	1065
>Increased OP0106	[cm ³ /s]	1179	1647	1284	1598
>Version accumulator OP0361	[cm ³ /s]	2281	2920	2701	2642
Plasticising rate, max. (PS): ²⁾					
>Hyd. motor 1 OP0310 ^{5) 6)}	[g/s]	114 / 171	162 / 242	135 / 202	167 / 250
>Hyd. motor 2 OP0311 ^{5) 6)}	[g/s]	95 / 143	135 / 202	104 / 156	129 / 170
>Electr. screw drive OP0313	[g/s]	129	126	183	155
Nozzle stroke, max.: ³⁾					
>Manual mode	[mm]	930	930	930	930
>Automatic mode	[mm]	930	930	930	930
Nozzle sealing force / speed, max.:					
>Standard	[kN / mm/s]	110	110	110	110
General data		1500/1500-11500		1500/1500-16000	
Oil tank capacity ⁸⁾	[l]	2000 / 2400		2000 / 2400	
Installed electrical rating:					
>Pump capacity single pump ⁵⁾	[kW]	110 / 165		110 / 165	
>Electr. screw drive OP0313	[kW]	115		147	
>Heating capacity of screw cylinder ⁷⁾	[kW]	79,1	79,1	79,1	97,2
Dry cycle time (Euromap 6):					
>Standard OP0105	[s-mm]	6,5 - 1050		6,5 - 1050	
>Increased OP0106	[s-mm]	4,7 - 1050		4,7 - 1050	
Net weight ⁴⁾	[kg]	16380 / 81585		21000 / 81585	
Motor end projection, max. (h):					
>Hyd. motor 1 OP0310	[mm]	0	161	0	0
>Hyd. motor 2 OP0311	[mm]	0	161	0	40
>Electr. screw drive OP0313 ⁷⁾	[mm]	0	227	0	8

These technical specifications are based on information that was correct at time of printing and is subject to change without notice. These parameters are based on a 400 V supply voltage. Other supply voltages will affect the machine parameters.

²⁾ Plasticising rate depends on processing conditions and the material used.

³⁾ The max. nozzle stroke is valid for standard open nozzle (OP0652) and L/D = 20. Nozzle stroke is shorter with special or optional nozzle and L/D > 20.

⁴⁾ Machine weight for standard machine without hydraulic-oil, weight may vary depending on equipment. Injection unit / Clamping unit

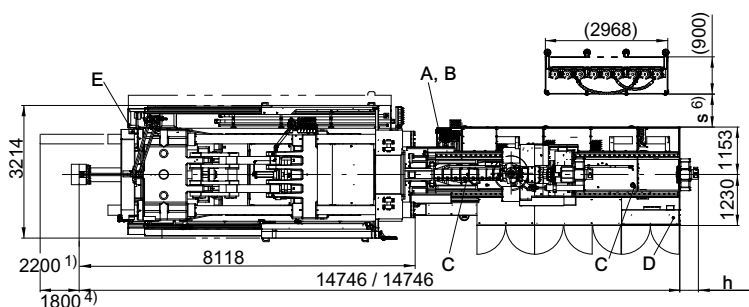
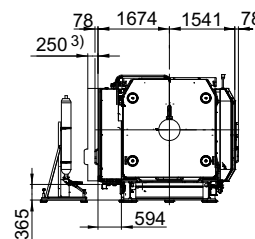
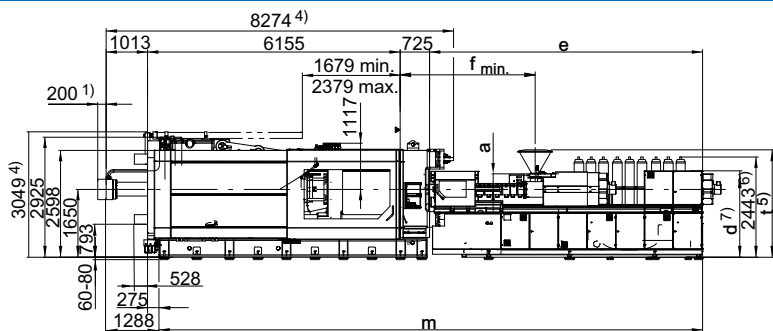
⁵⁾ Pump standard OP0105 / Pump increased OP0106

⁶⁾ Parameters only valid for 120 bar hydraulic pressure.

⁷⁾ L/D=20 / L/D=25

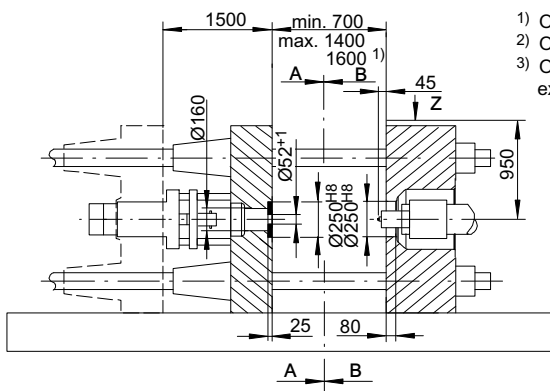
⁸⁾ First filling / operation

Machine dimensions Systec 1500



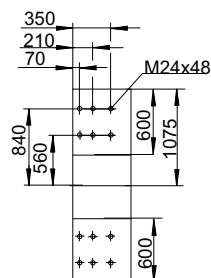
- 1) OP0211 Mould height increased
- 3) OP0242 Safety guard on non-operator side extended
- 4) OP0265 Automatic tie bar removal
- 5) OP0320 Material hopper optional
- 6) OP0361 Version accumulator
- 7) OP0310 / 0311 hyd. - OP0313 electric
- A Cooling water inlet, machine Ø19
- B Cooling water outlet, machine Ø19
- C Hydraulic connection
- D Electrical connection
- E Pneumatic connection Ø10

Platen dimensions - Hole pattern according to EUROMAP (OP0204, OP0205) Systec 1500

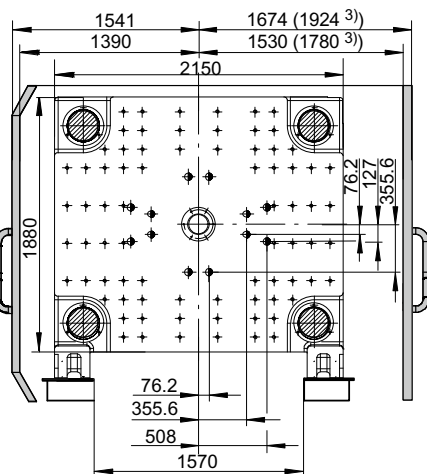


- 1) OP0211 Mould height increased
- 2) OP0050 Mechanical interface for handling unit
- 3) OP0242 Safety guard on non-operator side extended

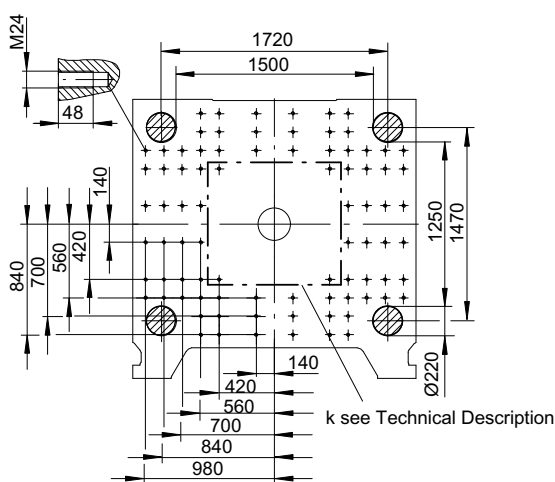
Z Hole pattern for robot/sprue picker on fixed platen (2)



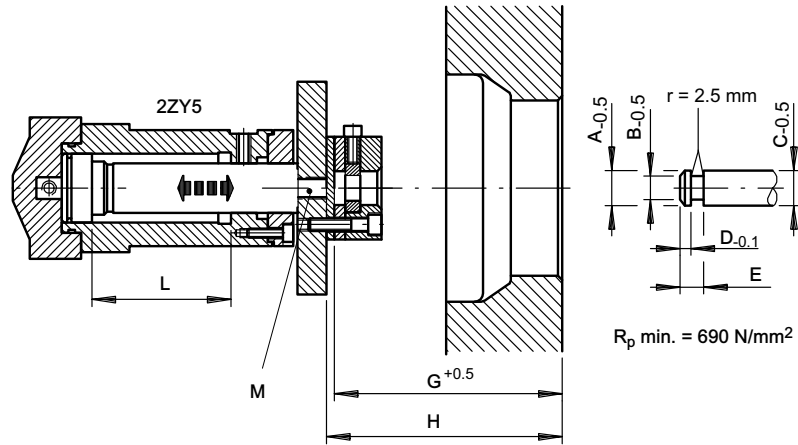
Movable platen
B - B



Fixed platen
A - A

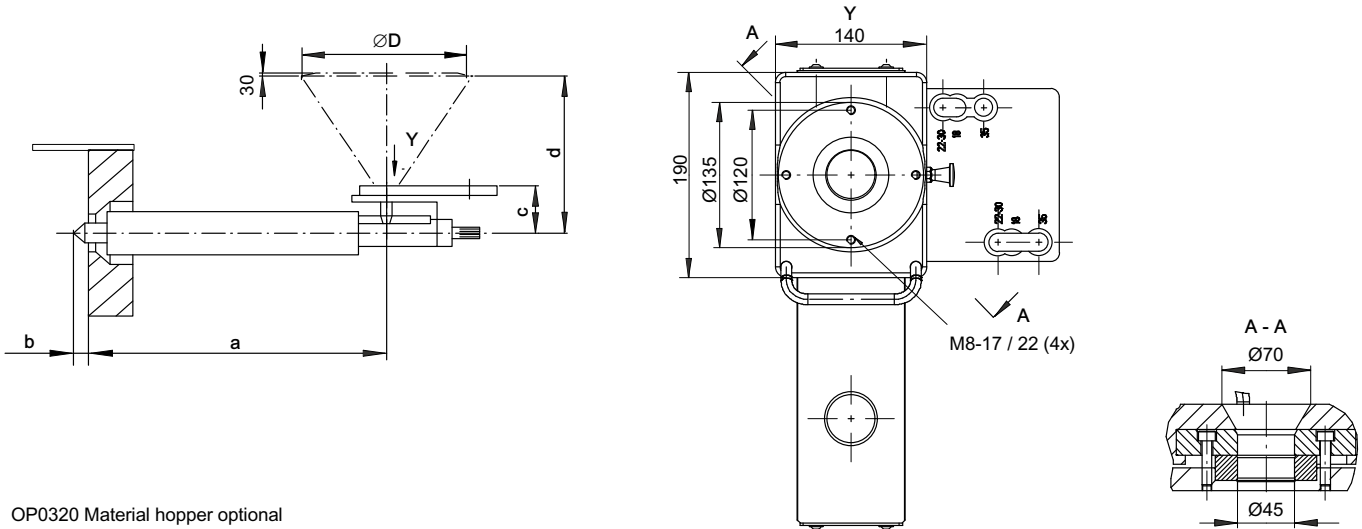


◆ Bore diameter throughout



Machine type	Dimensions [mm]								
	A	B	C	D	E	G	H	L	M
Systec 160	24.5	14	24.5	7.8	20	302	310	160	M16x30
Systec 210	44.5	26	44.5	9.5	26	360	370	180	M20x35
Systec 280	44.5	26	44.5	9.5	26	435	445	200	M20x35
Systec 350	44.5	26	44.5	9.5	26	485	495	200	M20x35
Systec 420	44.5	26	44.5	9.0	26	542	552	230	M24x50
Systec 500	44.5	26	44.5	9.0	26	560.5	570.5	260	M24x50
Systec 650	44.5	26	44.5	9.0	26	575.5	585.5	300	M24x50
Systec 800	44.5	26	44.5	9.0	26	655.5	665.5	350	M24x50
Systec 1000	44.5	26	44.5	9.0	26	690	690	350	M24x50
Systec 1300	44.5	26	44.5	9.0	26	725	735	350	M24x50
Systec 1500	44.5	26	44.5	9.0	26	725	735	350	M24x50

Material Loading - dimensions Systec EE 430...EE 600

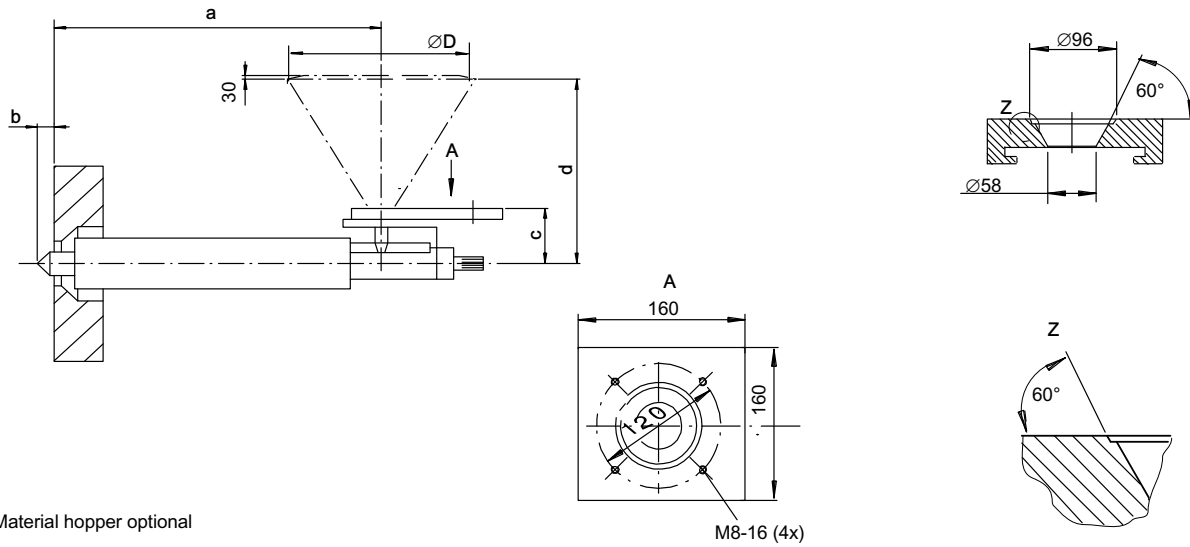


OP0320 Material hopper optional

Machine type	Injection unit	Screw diameter [mm]	Dimensions [mm]				
			Standard OP0652		c	d	D
			a	b			
Systec 160	430	35	881	20	156	677	392
		40	990				
		45 *	1118				
Systec 160	600	40	990	20	156	827	395
Systec 210		45	1118				
		50 *	1224				

* not for Systec SP version

Material Loading - dimensions Systec EE 840...EE 3300



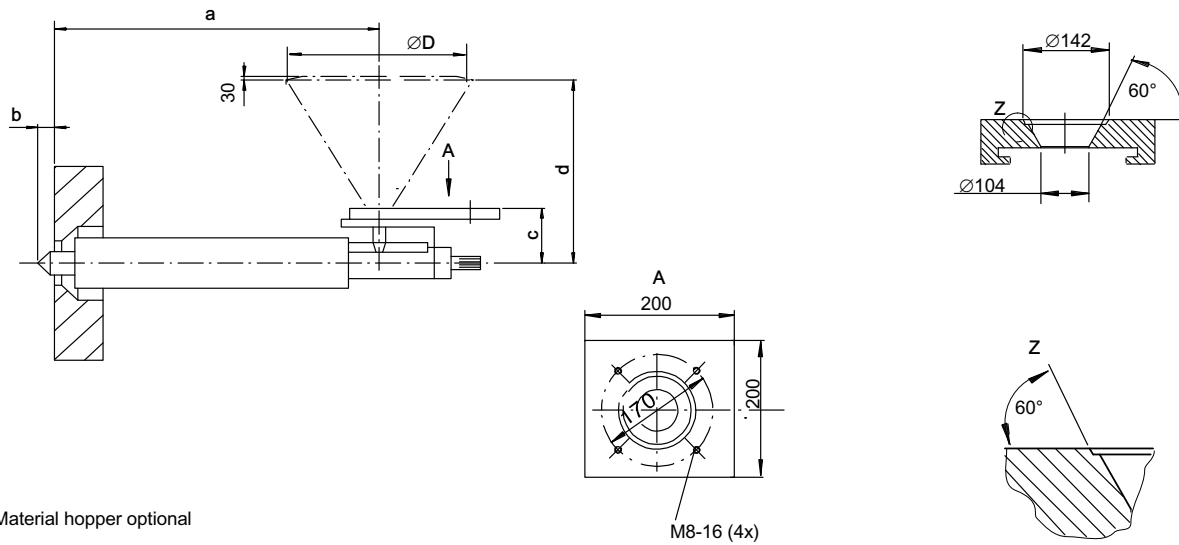
OP0320 Material hopper optional

M8-16 (4x)

Machine type	Injection unit	Screw diameter [mm]	Dimensions [mm]				
			Standard	b	c	d	D
			a				
Systec 160	840	45	1118	20	222	742	723
Systec 210		50	1244				
Systec 280		60 *	1475				
Systec 210	1450	50	1244	20	257	877	825
Systec 280		60	1475				
Systec 350		70 *	1719				
Systec 280	2300	60	1475	20	287	907	825
Systec 350		70	1719				
Systec 420		80 *	1965				
Systec 420	3300	70	1975	20	292	872	825
Systec 500		80	1975	45			
Systec 650		95 *	2307	45			

* not for Systec SP version

Material Loading - dimensions Systec EE 3300...EE 16000



Machine type	Injection unit	Screw diameter [mm]	Dimensions [mm]				
			Standard	b	c	d	D
			a				
Systec 420	3300	70	1975	20	292	872	825
Systec 500		80	1975	45			
Systec 650		95 *	2307	45			
Systec 500	6400	80	2307	45	322	902	825
Systec 650		95	2670				
Systec 800		110	3154				
Systec 650	9500	95	2670	45	342	923	825
Systec 800		110	2670				
Systec 1000		130	3154				
Systec 1000	11500	110	3154	45	383	923	825
Systec 1300		130					
Systec 1500		130					
Systec 1000	16000	130	3554	45	383	923	825
Systec 1300		145	3517	45	396	936	825
Systec 1500		145	3517	45	396	936	825

* not for Systec SP version

	a	SC - Ø 145	b	c	d _{max}	e	f _{min}	m	s	sh	s1	t _{OP0320}
Systec 160/520-430	157	-	305	991	1635	-	887	4259	349	1227	-	2060
Systec 160/520-600	157	-	305	991	1635	-	989	4259	349	1227	-	2210
Systec 160/520-840	222	-	975	900	1558	-	1118	4259	349	1742	-	2130
Systec 210/580-600	157	-	276	1021	1665	-	991	4590	350	1227	-	2240
Systec 210/580-840	222	-	946	930	1588	-	1118	4590	350	1742	-	2160
Systec 210/580-1450	257	-	1306	930	1620	-	1243	4590	350	2301	-	2295
Systec 280/620-840	222	-	375	969	1627	-	1118	5460	313	1762	-	2199
Systec 280/620-1450	257	-	735	969	1659	-	1243	5460	313	2321	-	2333
Systec 280/630-2300	287	-	1098	915	1661	-	1474	5460	529	1852	-	2363
Systec 350/720-840	222	-	367	1014	1672	-	1118	5773	317	1747	-	2244
Systec 350/720-1450	257	-	727	1014	1704	-	1243	5773	317	2306	-	2378
Systec 350/720-2300	287	-	1090	960	1706	-	1474	5773	546	1837	-	2408
Systec 420/820-1450	257	-	-	-	1810	-	1243	6973	305	2306	-	2484
Systec 420/820-2300	287	-	331	1066	1812	-	1474	6973	534	1811	-	2514
Systec 420/820-3300	292	-	1519	921	1854	-	1960	6973	534	2396	-	2479
Systec 500/920-2300	287	-	0	0	2193	3957	1475	8150	522	-	48	2499
Systec 500/920-3300	292	-	0	0	2193	4797	1475	8990	522	-	48	2464
Systec 500/920-6400	322	-	595	916	2193	5392	1475	8990	522	-	12	2494
Systec 650/1020-3300	292	-	0	0	2193	4795	1950	9509	522	-	12	2464
Systec 650/1020-6400	322	-	595	916	2193	5390	2307	9509	522	-	12	2494
Systec 650/1020-9500	342	-	0	0	2293	6145	2670	10859	800	-	-	2514
Systec 800/1120-6400	322	-	595	916	2193	5392	2310	9972	522	-	30	2494
Systec 800/1120-9500	342	-	0	0	2293	6147	2670	11322	782	-	-	2514
Systec 1000/1400-6400	322	-	595	916	2293	5385	2307	10447	522	-	30	2494
Systec 1000/1400-9500	342	-	0	0	2293	6140	2670	11797	800	-	-	2514
Systec 1000/1400-11500	373	-	0	0	2293	6530	3154	11985	800	-	-	2606
Systec 1000/1400-16000	383	-	0	0	2293	6530	3154	11985	800	-	-	2606
Systec 1300/1500-9500	342	-	0	0	2383	6180	2670	12720	800	-	-	2604
Systec 1300/1500-11500	383	-	0	0	2293	6538	2670	13078	800	-	-	2606
Systec 1300/1500-16000	383	396	0	0	2293	6538	2670	13078	800	-	-	2606
Systec 1500/1500-11500	383	-	0	0	2293	6653	3154	13258	800	-	-	2606
Systec 1500/1500-16000	383	396	0	0	2293	6653	3154	13258	800	-	-	2606

Practical values of melt correction factor for use in 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 faktor x swept volume

The melt correction faktor 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



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All data and information provided in this brochure has been compiled and checked with due care and diligence. We believe the contents of this brochure to be accurate, but cannot guarantee its accuracy. The description in this brochure may differ from the machine's actual condition upon delivery. 07.2019