

The whiz kid machine



Technical Description

Systemec

Technical Data Systec 35/320

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Daylight between platens, max.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter	[mm]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ²⁾	
> without accumulator ³⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ³⁾	[g/s]
> motor 2 (120 bar) ³⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[litr.]
General data	
Oil tank capacity	[litr.]
Installed electrical rating	
> pump ³⁾	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with electr. drive ³⁾	[kW]
Dry cycles (Euromap 6) ³⁾	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁷⁾	[mm]

Systec 35/320												
35/320-35			35/320-80			35/320-120			35/320-200			
350-35			350-80			350-120			350-200			
35/320												
350												
350												
350			350			350						
(0)180 ¹⁾			(0)180 ¹⁾			(+50)230			(+100)280			
(0)530 ¹⁾			(0)530 ¹⁾			(+50)580			(+100)630			
460x460												
320x320												
160												
100												
33												
13												
35			80			120			200			
14	18	22	18	22	25	22	25	30	25	30	35	
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	2099	1570	2868	2061	1596	2591	2006	1393	2800	1995	1466	
14	23	34	23	42	54	42	61	88	61	106	144	
12	20	30	20	37	48	37	54	78	54	94	128	
37/54/75	61/89/123	92/132/184	47/68/94	70/101/140	90/130/181	56/80/112	72/104/144	103/149/207	50/72/101	72/104/145	98/142/197	
94	155	232	154	231	299	231	299	431	299	431	587	
1,4/1,6/1,7	5/6/6	8,5/9/10	5/6/6	8/9/10	14/16/17	7/8/10	11/13/16	19/22/27	9/11/15	15/18/25	20/24/34	
1,1/1,3/1,6	4/5/6	7/8/10	4/5/6	7/8/9	11/13/16	5/6/9	9/11/15	15/18/25	7/8/12	12/14/20	16/19/27	
90	90	90	90	110	110	110	125	125	125	150	150	
	250		250			250			250			
	30		40			40			40			
	60		60			60			60			
	4		4			4			4			
	35		35			35			35			
35/320-35			35/320-80			35/320-120			35/320-200			
145			145			145			145			
7,5/11/15			7,5/11/15			7,5/11/15			7,5/11/15			
4,0	4,3	5,3	4,3	5,3	5,8	5,3	5,8	8,3	5,8	8,3	9,4	
12/15/19	12/15/19	13/16/20	12/15/19	13/16/20	13/17/21	13/16/20	13/17/21	16/19/23	13/17/21	16/19/23	17/20/24	
2,0/1,8/1,5-224			2,0/1,8/1,5-224			2,0/1,8/1,5-224			2,0/1,8/1,5-224			
2620			2470			2510			2530			
3,2x1,2x1,8			3,2x1,2x1,8			3,2x1,2x1,8			3,2x1,2x1,8			

The shown specifications reflect the state at the time of printing. 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) basic equipment

2) Rate of injection based on the standard plasticizing unit

3) standard/increased/twin pump

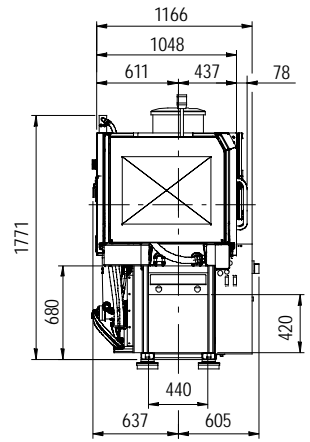
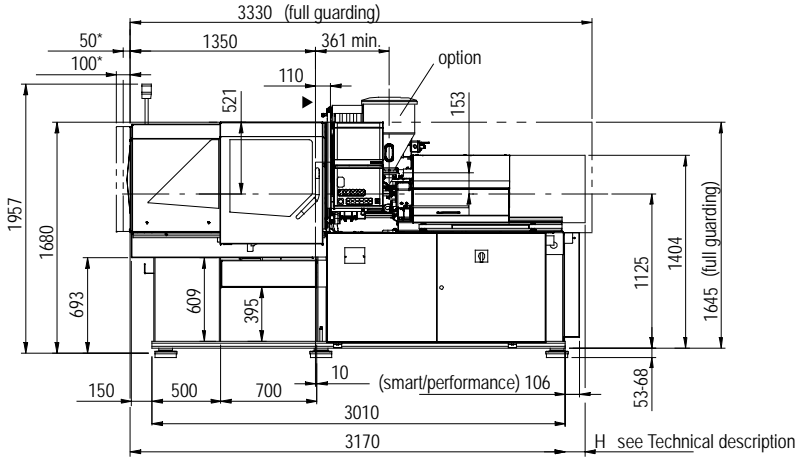
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

5) Optional

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

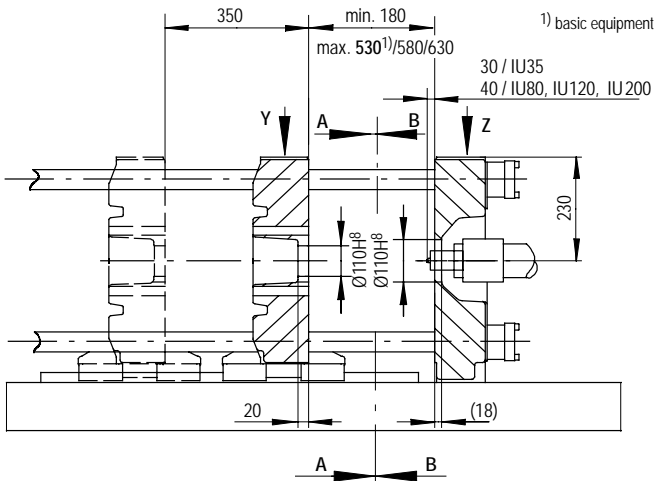
7) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 35/320

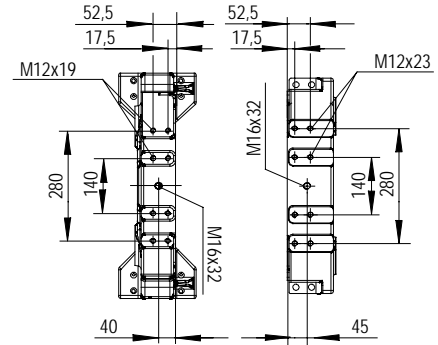


* only at enlarged mould height
 ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 35/320

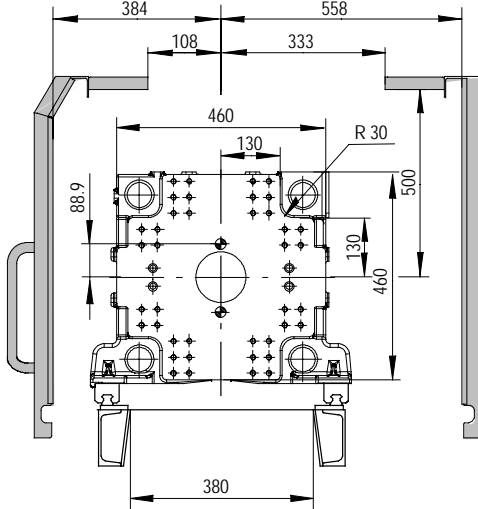


Y, Z Hole pattern for periphery on movable and fixed platen



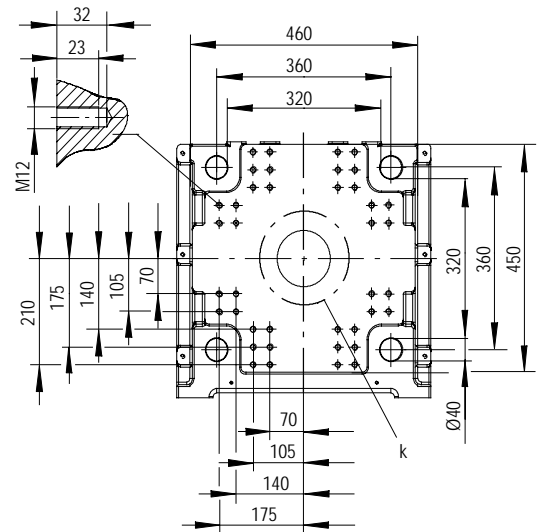
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 160 mm
 Max. permissible mould weight 440 kg,
 max. 330 kg of it on the moving platen support bearings

Technical Data Systec 50/370

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Daylight between platens, max.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter	[mm]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ²⁾	
> without accumulator ³⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ³⁾	[g/s]
> motor 2 (120 bar) ³⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ³⁾	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ³⁾	[kW]
> capacity with electr. drive ³⁾	[kW]
Dry cycles (Euromap 6) ³⁾	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁷⁾	[mm]
Motor end projection 2 (H) ⁷⁾	[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			400			400			400			
(-50)160			(0)210 ¹⁾			(+50)260			(+100)310			
(-50)560			(0)610 ¹⁾			(+50)660			(+100)710			
540x530												
370x370												
200												
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	106	168	220	
20	37	48	37	54	78	54	94	128	94	149	195	
68/78/136	101/117/203	130/151/262	80/93/161	104/120/208	149/173/300	72/84/145	104/121/209	142/164/285	76/87/152	103/119/206	134/156/269	
154	231	299	231	299	431	299	431	587	431	587	767	
6/6/7	10/10/11	16/17/18	8/9/10	13/16/16	22/26/27	11/15/15	18/25/25	24/34/34	14/20/22	19/27/30	27/40/44	
5/6/6	8/9/10	13/16/16	6/9/9	11/15/15	18/25/25	8/12/13	14/20/22	19/27/30	11/16/18	15/22/24	22/32/35	
90	110	110	110	125	125	125	150	150	150	175	175	
	250			250			250			250		
	40			40			40			40		
	60			60			60			60		
	4			4			4			4		
	35			35			35			35		
50/370-80			50/370-120			50/370-200			50/370-310			
160			160			160			160			
11/15/18,5			11/15/18,5			11/15/18,5			11/15/18,5			
4,3	5,3	5,8	5,3	5,8	8,3	5,8	8,3	9,4	8,3	9,4	11,1	
15/19/23	16/20/24	17/21/24	16/20/24	17/21/24	19/23/27	17/21/24	19/23/27	20/24/28	19/23/27	20/24/28	22/26/30	
2,1/1,8/1,4-259			2,1/1,8/1,4-259			2,1/1,8/1,4-259			2,1/1,8/1,4-259			
3250			3250			3300			3350			
3,7x1,4x2,0			3,7x1,4x2,0			3,7x1,4x2,0			3,7x1,4x2,0			

The shown specifications reflect the state at the time of printing. 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) basic equipment

2) Rate of injection based on the standard plasticizing unit

3) standard/increased/twin pump

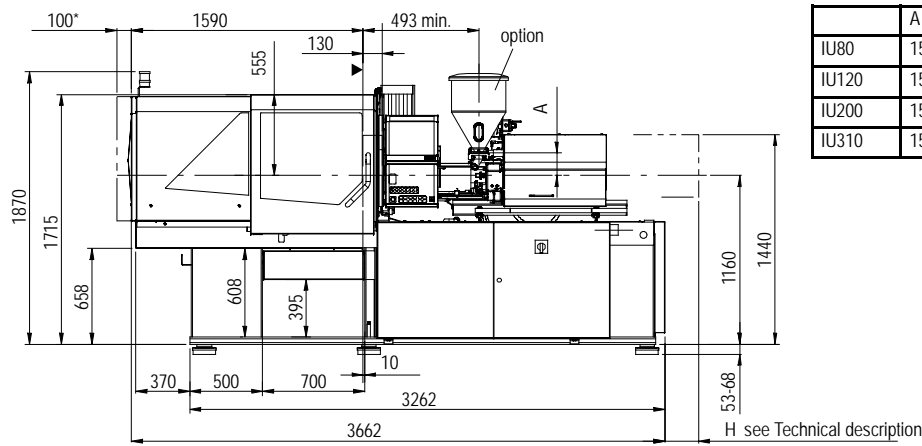
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

5) Optional

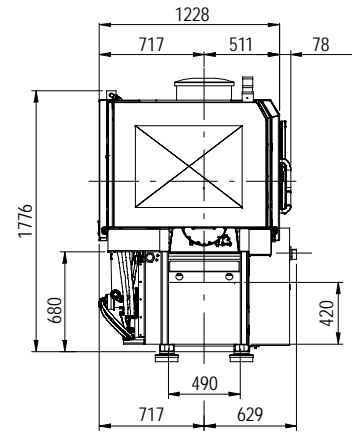
6) The net weight of the machine may vary depending on equipment

7) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 50/370

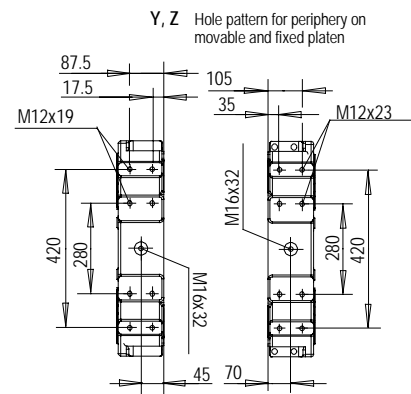
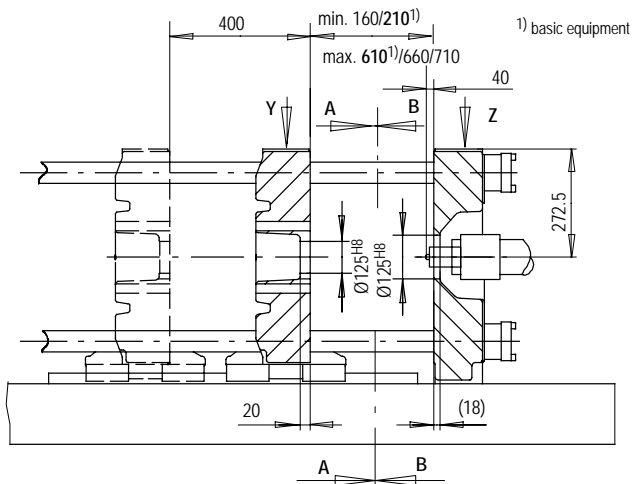


	A
IU80	153
IU120	153
IU200	153
IU310	156



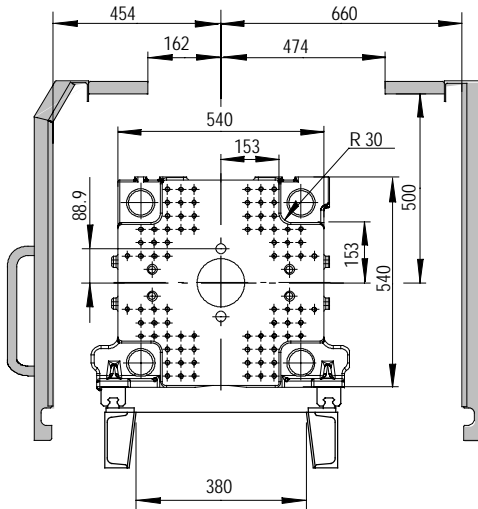
- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 50/370



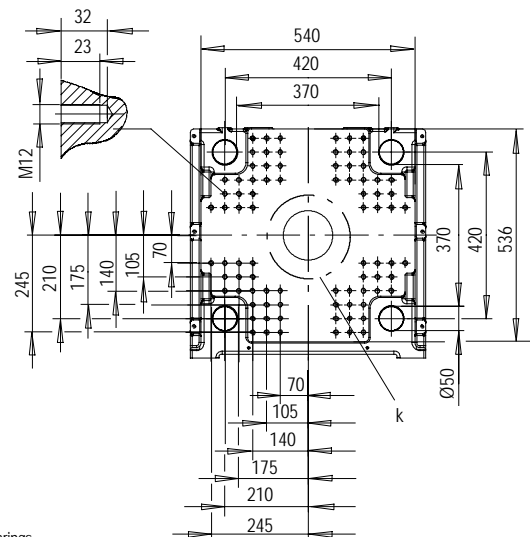
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 200 mm
 Max. permissible mould weight 650 kg,
 max. 420 kg of it on the moving platen support bearings

Technical Data Systec 60/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Daylight between platens, max.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter	[mm]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ²⁾	
> without accumulator ³⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ³⁾	[g/s]
> motor 2 (120 bar) ³⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ³⁾	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ³⁾	[kW]
> capacity with electr. drive ³⁾	[kW]
Dry cycles (Euromap 6) ³⁾	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁷⁾	[mm]
Motor end projection 2 (H) ⁷⁾	[mm]

Systec 60/420												
60/420-120			60/420-200			60/420-310			60/420-430			
600-120			600-200			600-310			600-430			
60/420												
600												
600												
450			450			450			450			
(-100)150			(0)250 ¹⁾			(+50)300			(+100)350			
(-100)150			(0)700 ¹⁾			(+50)750			(+100)800			
600x600												
420x420												
215												
150												
41												
15												
120			200			310			430			
22	25	30	25	30	35	30	35	40	35	40	45	
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	
20	20	20	20	20	20	20	20	20	20	20	20	
2591	2006	1393	2800	1995	1466	2755	2024	1550	2644	2025	1600	
42	61	88	61	106	144	106	168	220	168	231	293	
37	54	78	54	94	128	94	149	195	149	205	259	
93/127/174	120/164/226	173/237/324	83/114/158	121/166/227	164/224/309	87/119/163	119/162/223	156/212/291	91/124/170	119/162/223	150/206/282	
231	299	431	299	431	587	431	587	767	587	767	969	
9/10/10	15/16/17	26/27/29	15/15/15	25/25/25	34/34/34	20/22/26	26/30/35	37/41/48	21/24/28	29/33/39	39/44/52	
9/9/9	15/15/15	25/25/25	11/13/15	20/22/22	26/30/35	16/18/21	21/24/28	29/33/39	17/19/22	23/26/31	31/35/42	
110	125	125	125	150	150	162	175	175	184	184	184	
	250		250			250			300			
	40		40			40			40			
	60		60			60			60			
	4		4			4			5			
	35		35			35			35			
60/420-120			60/420-200			60/420-310			60/420-430			
180			180			180			180			
15/18,5/22			15/18,5/22			15/18,5/22			15/18,5/22			
5,3	5,8	8,3	5,8	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
20/24/27	21/24/28	23/27/30	21/24/28	23/27/30	24/28/31	23/27/30	24/28/31	26/30/33	24/28/31	26/30/33	26/30/33	
1,7/1,5/1,3-294			1,7/1,5/1,3-294			1,7/1,5/1,3-294			1,7/1,5/1,3-294			
3850			3900			4000			4000			
4,1x1,4x2,0			4,1x1,4x2,0			4,1x1,4x2,0			4,1x1,4x2,0			

The shown specifications reflect the state at the time of printing. 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) basic equipment

2) Rate of injection based on the standard plasticizing unit

3) standard/increased/twin pump

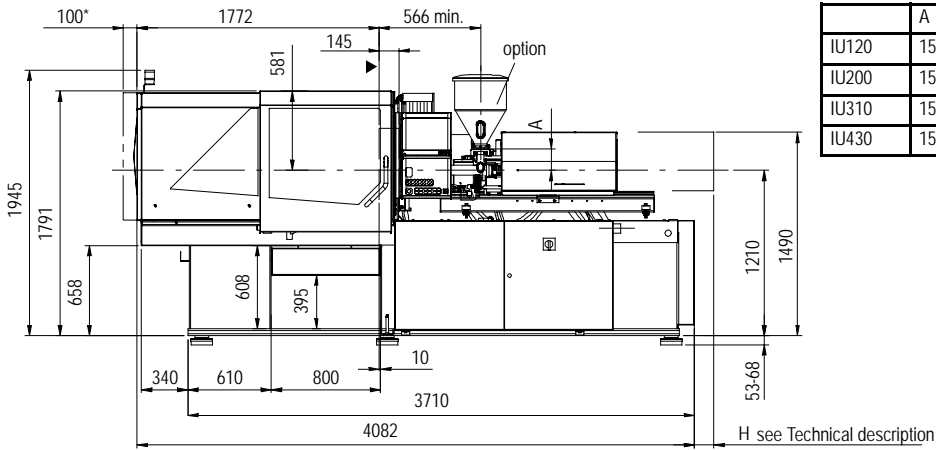
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

5) Optional

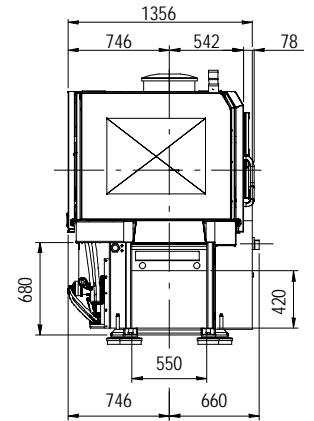
6) The net weight of the machine may vary depending on equipment

7) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 60/420

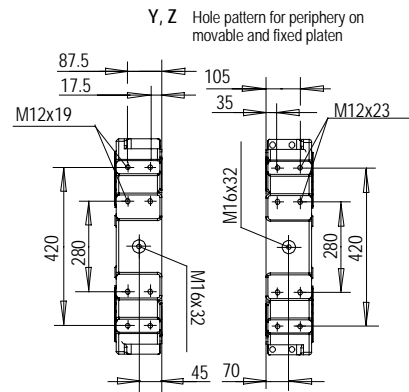
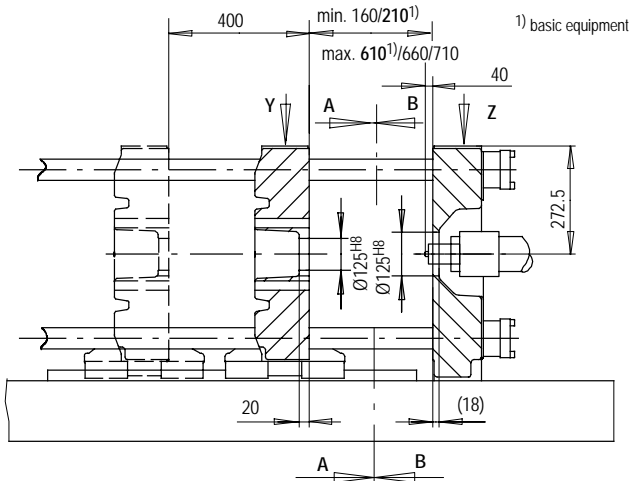


	A
IU120	153
IU200	153
IU310	156
IU430	156



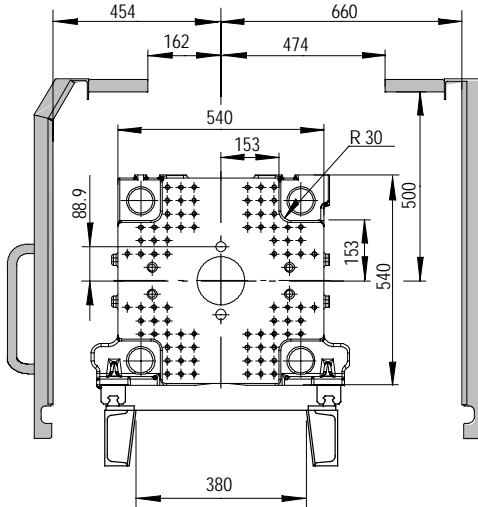
* only at enlarged mould height
 ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 60/420



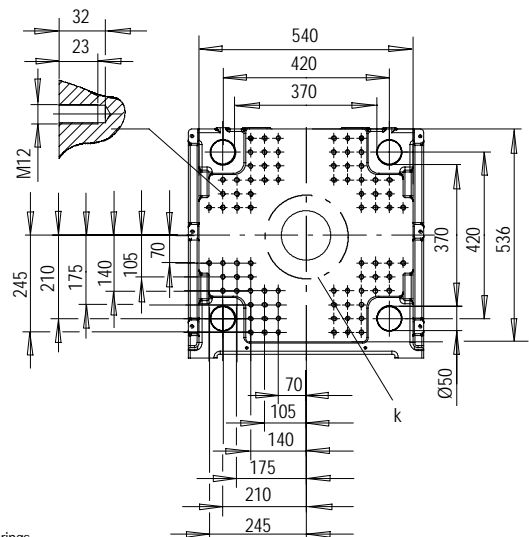
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 200 mm
 Max. permissible mould weight 650 kg,
 max. 420 kg of it on the moving platen support bearings

Technical Data Systec 80/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Daylight between platens, max.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter	[mm]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ²⁾	
> without accumulator ³⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ³⁾	[g/s]
> motor 2 (120 bar) ³⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ³⁾	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ³⁾	[kW]
> capacity with electr. drive ³⁾	[kW]
Dry cycles (Euromap 6) ³⁾	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁷⁾	[mm]
Motor end projection 2 (H) ⁷⁾	[mm]

Systec 80/420														
80/420-120			80/420-200			80/420-310			80/420-430					
800-120			800-200			800-310			800-430					
80/420														
800														
800														
			450			450			450			450		
			(-100)150			(0)250 ¹⁾			(+50)300			(+100)350		
			(-100)600			(0)700 ¹⁾			(+50)750			(+100)800		
600x600														
420x420														
215														
150														
41														
15														
120			200			310			430					
22	25	30	25	30	35	30	35	40	35	40	45			
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard			
20	20	20	20	20	20	20	20	20	20	20	20			
2591	2006	1393	2800	1995	1466	2755	2024	1550	2644	2025	1600			
42	61	88	61	106	144	106	168	220	168	231	293			
37	54	78	54	94	128	94	149	195	149	205	259			
93/127/174	120/164/226	173/237/324	83/114/158	121/166/227	164/224/309	87/119/163	119/162/223	156/212/291	91/124/170	119/162/223	150/206/282			
231	299	431	299	431	587	431	587	767	587	767	969			
9/10/10	15/16/17	26/27/29	15/15/15	25/25/25	34/34/34	20/22/26	26/30/35	37/41/48	21/24/28	29/33/39	39/44/52			
9/9/9	15/15/15	25/25/25	11/13/15	20/22/22	26/30/35	16/18/21	21/24/28	29/33/39	17/19/22	23/26/31	31/35/42			
110	125	125	125	150	150	162	175	175	184	184	184			
	250		250			250			250					
	40		40			40			40					
	60		60			60			60					
	4		4			4			4					
	35		35			35			35					
80/420-120			80/420-200			80/420-310			80/420-430					
180			180			180			180					
15/18,5/22			15/18,5/22			15/18,5/22			15/18,5/22					
5,3	5,8	8,3	5,8	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3			
20/24/27	21/24/28	23/27/30	21/24/28	23/27/30	24/28/31	23/27/30	24/28/31	26/30/33	24/28/31	26/30/33	26/30/33			
2,0/1,8/1,3-294			2,0/1,8/1,3-294			2,0/1,8/1,3-294			2,0/1,8/1,3-294					
3850			3900			4000			4000					
4,1x1,4x2,0			4,1x1,4x2,0			4,1x1,4x2,0			4,1x1,4x2,0					

The shown specifications reflect the state at the time of printing. 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) basic equipment

2) Rate of injection based on the standard plasticizing unit

3) standard/increased/twin pump

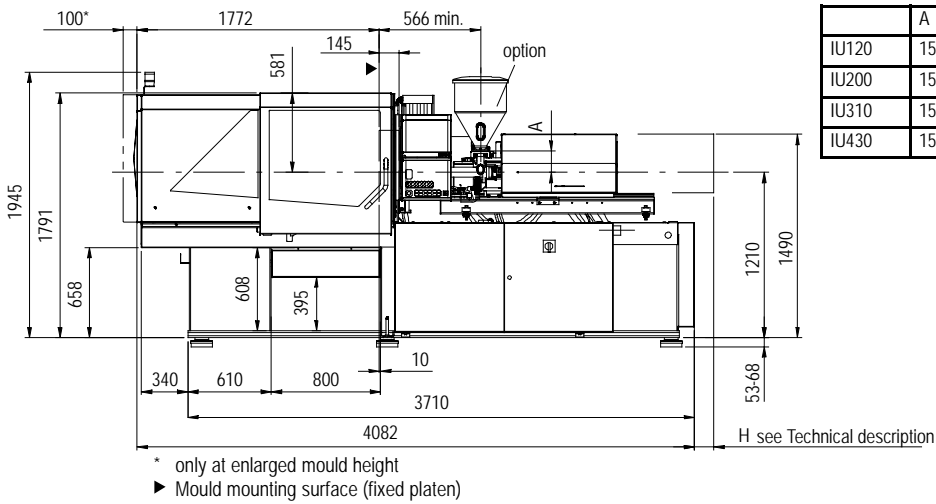
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

5) Optional

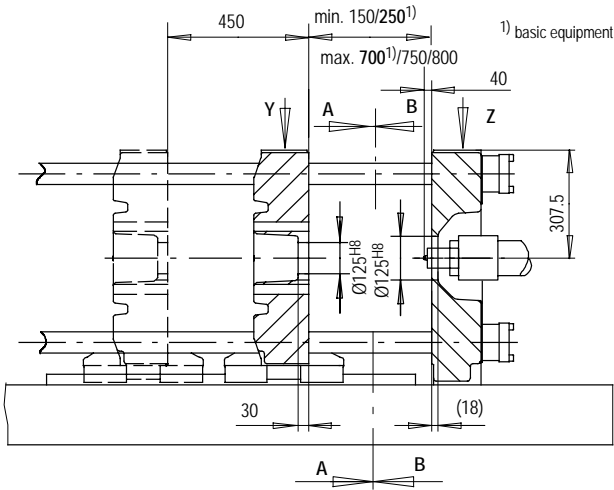
6) The net weight of the machine may vary depending on equipment

7) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 80/420



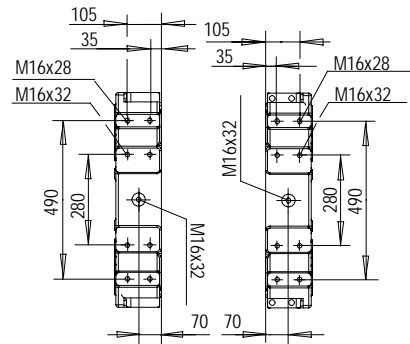
Platen dimensions Systec 80/420



Movable platen

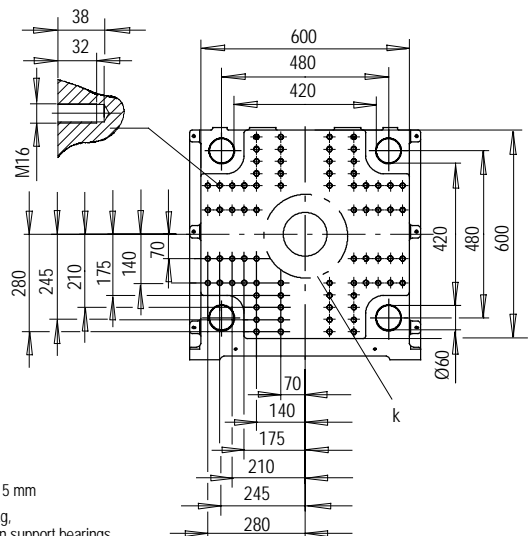
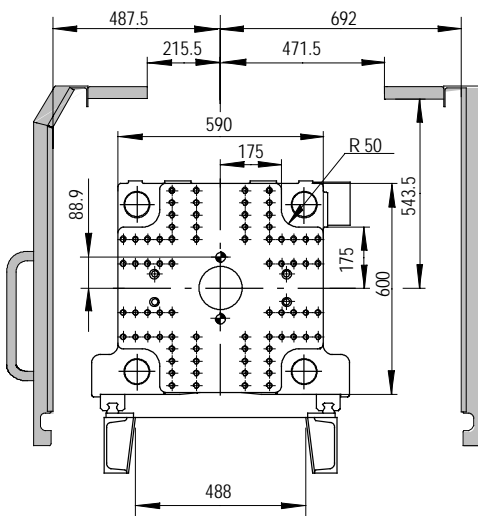
B - B

Y, Z Hole pattern for periphery on movable and fixed platen (Euromap 18-E7)



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 215 mm
 Max. permissible mould weight 780 kg,
 max. 500 kg of it on the moving platen support bearings

Technical Data Systec 100/420

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Daylight between platens, max.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter	[mm]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ²⁾	
> without accumulator ³⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ³⁾	[g/s]
> motor 2 (120 bar) ³⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ³⁾	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ³⁾	[kW]
> capacity with electr. drive ³⁾	[kW]
Dry cycles (Euromap 6) ³⁾	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁷⁾	[mm]
Motor end projection 2 (H) ⁷⁾	[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			500			500			500			
(-100)150			(0)250 ¹⁾			(+50)300			(+100)350			
(-100)650			(0)750 ¹⁾			(+50)800			(+100)850			
600x600												
420x420												
215												
150												
41												
15												
200			310			430			600			
25	30	35	30	35	40	35	40	45	40	45	50	
standard	standard	standard	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	106	168	220	168	231	293	231	322	398	
54	94	128	94	149	195	149	205	259	208	291	359	
93/127/174	120/164/226	173/237/324	119/151/194	162/206/266	212/269/347	124/158/203	162/206/266	206/260/337	136/172/221	171/218/280	212/269/347	
299	431	587	431	587	767	587	767	969	767	969	1197	
15/15/15	25/25/25	34/34/34	22/26/26	30/35/35	41/48/48	24/28/32	33/39/45	44/52/60	17/21/27	23/29/36	31/40/50	
11/13/15	22/22/22	26/30/35	18/21/24	24/28/32	33/39/45	19/22/25	26/31/35	35/42/47	14/17/23	18/23/31	25/31/43	
125	150	150	162	175	175	175	184	184	184	203	203	
	250			250			300			300		
	40			40			40			40		
	60			60			60			60		
	4			4			4			4		
	35			35			35			35		
100/420-200			100/420-310			100/420-430			100/420-600			
180			180			180			180			
18,5/22/30			18,5/22/30			18,5/22/30			18,5/22/30			
5,8	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7	
24/28/36	27/30/38	28/31/39	27/30/38	28/31/39	30/33/41	28/31/39	30/33/41	30/33/41	30/33/41	30/33/41	34/38/46	
2,1/1,8/1,3-294			2,1/1,8/1,3-294			2,1/1,8/1,3-294			2,1/1,8/1,3-294			
4350			4400			4450			4500			
4,2x1,4x2,0			4,2x1,4x2,0			4,2x1,4x2,0			4,2x1,4x2,0			

The shown specifications reflect the state at the time of printing. 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) basic equipment

2) Rate of injection based on the standard plasticizing unit

3) standard/increased/twin pump

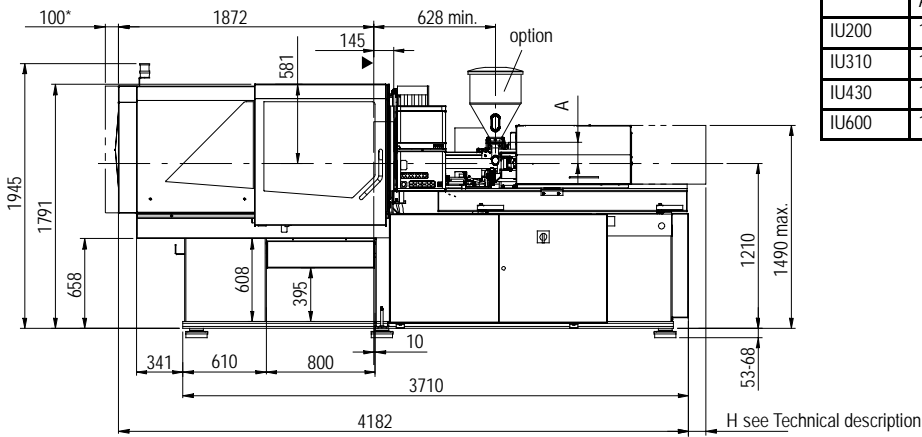
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

5) Optional

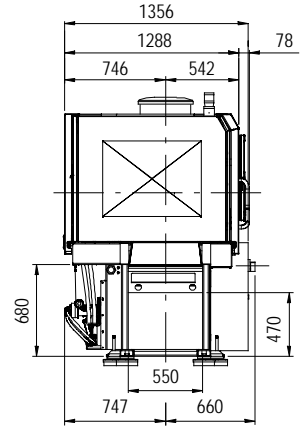
6) The net weight of the machine may vary depending on equipment

7) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 100/420

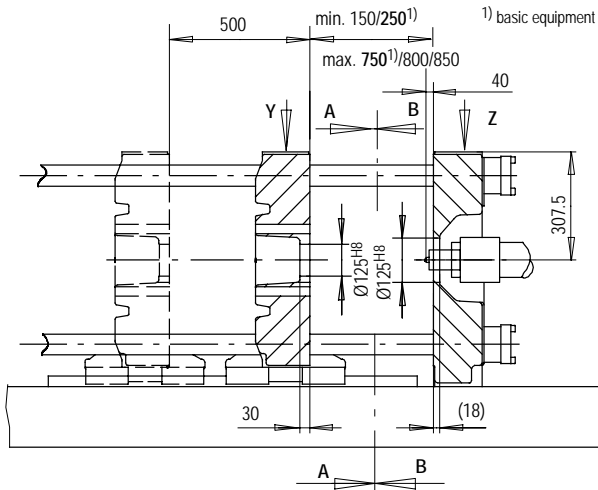


	A
IU200	153
IU310	156
IU430	156
IU600	156



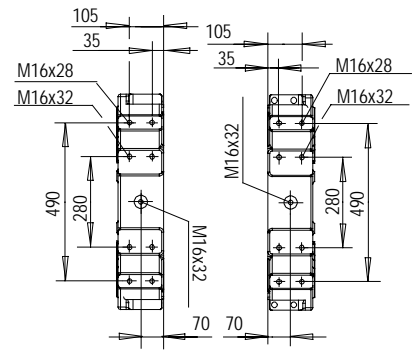
* only at enlarged mould height
 ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 100/420



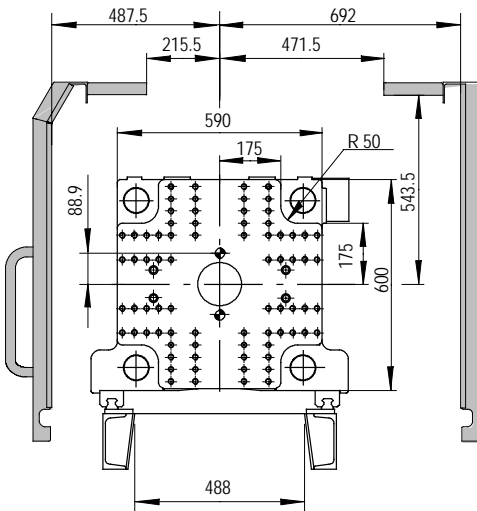
Movable platen

Y, Z Hole pattern for periphery on movable and fixed platen (Euromap 18-E7)

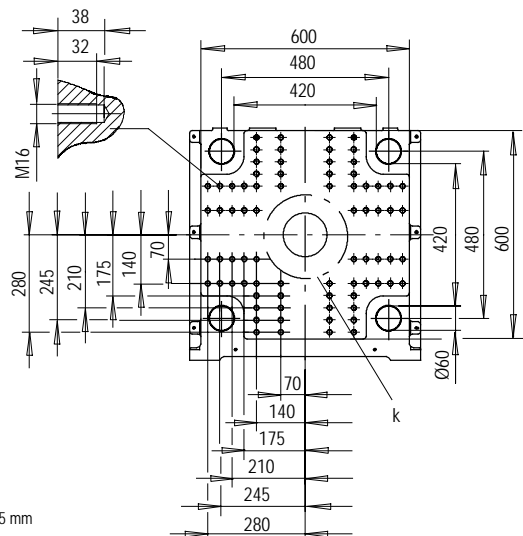


Fixed platen

B - B



A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 215 mm
 Max. permissible mould weight 780 kg,
 max. 500 kg of it on the moving platen support bearings

Technical Data Systec 120/470

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Daylight between platens, max.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Min. permissible mould diameter	[mm]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ²⁾	
> without accumulator ³⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ³⁾	[g/s]
> motor 2 (120 bar) ³⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ³⁾	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ³⁾	[kW]
> capacity with electr. drive ³⁾	[kW]
Dry cycles (Euromap 6) ³⁾	[s-mm]
Net weight (without oil) ⁶⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁷⁾	[mm]
Motor end projection 2 (H) ⁷⁾	[mm]

Systec 120/470												
120/470-200			120/470-310			120/470-430			120/470-600			
1200-200			1200-310			1200-430			1200-600			
120/470												
1200												
1200												
600			600			600			600			
(-100)150			(0)250 ¹⁾			(+50)300			(+100)350			
(-100)750			(0)850 ¹⁾			(+50)900			(+100)950			
670/670												
470x470												
230												
180												
41												
15												
200			310			430			600			
25	30	35	30	35	40	35	40	45	40	45	50	
standard	standard	standard	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	106	168	220	168	231	293	231	322	398	
54	94	128	94	149	195	149	205	259	208	291	359	
145/181/218	209/260/314	285/354/427	151/188/227	206/256/309	269/334/403	158/196/237	206/256/309	260/324/391	172/214/258	218/271/327	269/334/403	
299	431	587	431	587	767	587	767	969	767	969	1197	
15/15/15	25/25/25	34/34/34	26/26/26	35/35/35	52/52/52	28/32/32	41/48/48	52/60/60	23/29/29	29/36/36	42/52/52	
13/13/13	22/22/22	30/30/30	20/24/24	28/32/32	41/48/48	22/25/25	33/37/37	42/47/47	18/25/25	23/31/31	33/45/45	
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			5		
	35			35			35			50		
120/470-200			120/470-310			120/470-430			120/470-600			
220			220			220			220			
22/30/30			22/30/30			22/30/30			22/30/30			
5,8	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7	
28/35/35	30/38/38	31/39/39	30/38/38	31/39/39	33/41/41	31/39/39	33/41/41	33/41/41	33/41/41	33/41/41	38/46/46	
2,1/1,6/1,5-329			2,1/1,6/1,5-329			2,1/1,6/1,5-329			2,1/1,6/1,5-329			
5450			5500			5500			5600			
4,6x1,5x2,0			4,6x1,5x2,0			4,6x1,5x2,0			4,6x1,5x2,0			

The shown specifications reflect the state at the time of printing. 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) basic equipment

2) Rate of injection based on the standard plasticizing unit

3) standard/increased/twin pump

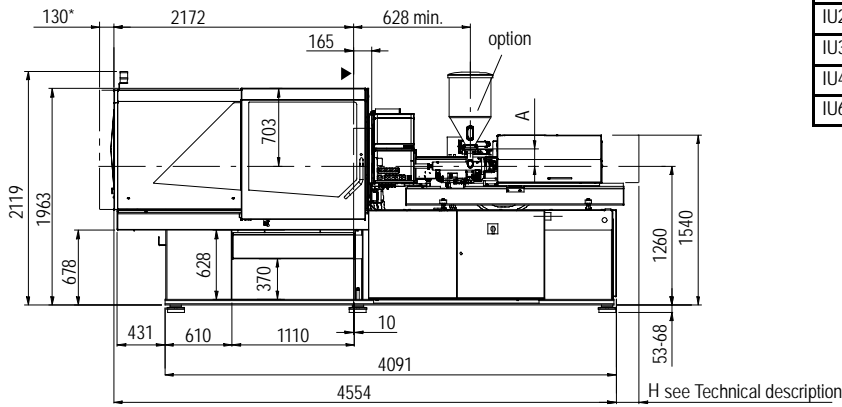
4) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

5) Optional

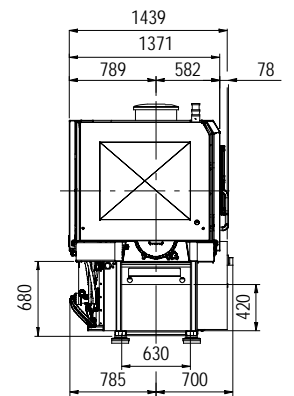
6) The net weight of the machine may vary depending on equipment

7) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 120/470

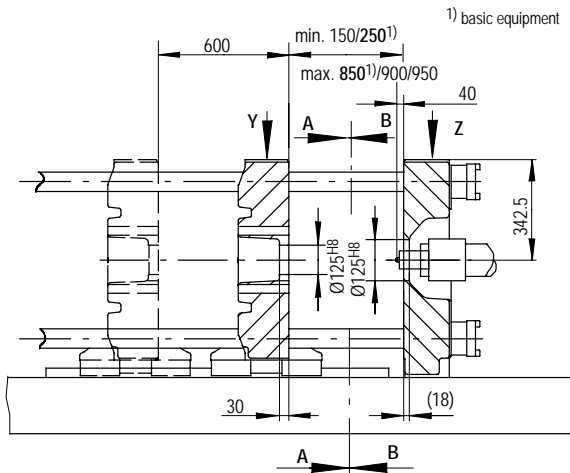


	A
IU200	153
IU310	156
IU430	156
IU600	156

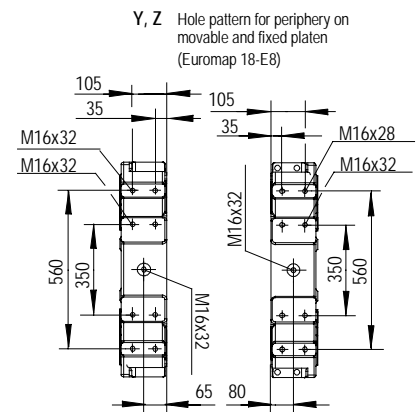


* only at enlarged mould height
 ▶ Mould mounting surface (fixed platen)

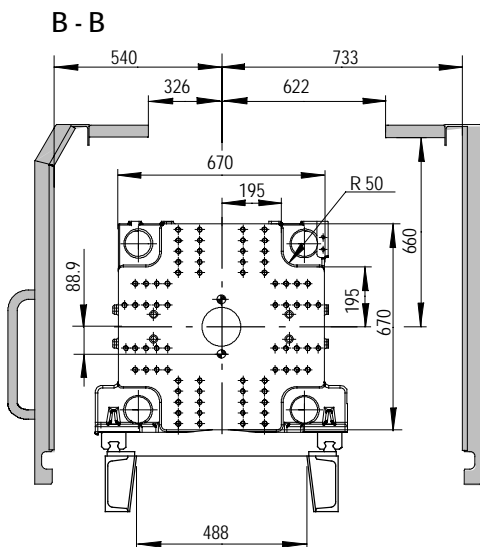
Platen dimensions Systec 120/470



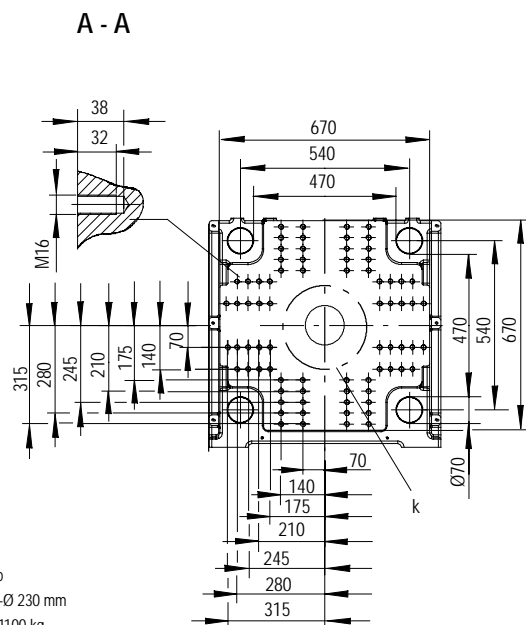
Movable platen



Fixed platen



B - B



A - A

Hole pattern according Euromap
 k = minimum permissible mould-Ø 230 mm
 Max. permissible mould weight 1100 kg,
 max. 750 kg of it on the moving platen support bearings

Technical Data Systec 130/475

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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.	[cm³]
Max. shot weight (PS)	[g]
Max. rate of injection ¹⁾	
> without accumulator ²⁾	[cm³/s]
> with accumulator	[cm³/s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ²⁾	[g/s]
> motor 2 (120 bar) ²⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ³⁾	[mm]
Nozzle stroke in automatic mode ³⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁴⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ²⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ²⁾	[kW]
> capacity with electr. drive ²⁾	[kW]
Dry cycles (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁶⁾	[mm]
Motor end projection 2 (H) ⁶⁾	[mm]
Electric drive projection (H) ⁶⁾	[mm]

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

Plasticising rate depends on processing conditions and material employed

Electrical power supply refers to the standard configuration of the machine

Systec 130/475												
130/475-200			130/475-310			130/475-430			130/475-600			
1300-200			1300-310			1300-430			1300-600			
130/475												
						1300						
						1430						
						450						
						250						
						480/580						
						930/1030						
						705x700						
						475x475						
						285						
						1450						
						850						
						1100						
						140						
						59						
						29						
200			310			430			600			
25	30	35	30	35	40	35	40	45	40	45	50	
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	
20	20	20	20	20	20	20	20	20	20	20	20	
2752	1995	1466	2755	2024	1550	2644	2025	1600	2423	1914	1550	
61	106	144	115	168	220	168	231	293	231	323	399	
56	96	131	104	153	200	153	210	266	210	294	363	
112/158/183	161/227/263	219/309/359	117/164/191	159/224/260	208/292/339	122/171/199	159/224/260	201/283/329	133/187/217	168/237/275	207/292/339	
299	431	587	431	587	767	587	767	970	767	970	1198	
15/15/15	25/25/25	34/34/34	25/26/26	35/35/35	51/52/52	28/35/35	41/52/52	51/66/66	25/32/32	32/40/40	45/57/57	
13/13/13	22/22/22	30/30/30	20/26/26	28/35/35	41/52/52	22/28/28	33/42/42	41/53/53	20/25/25	25/32/32	36/46/46	
			19	26	38	26	38	47	38	47	54	
125	150	150	162	175	175	175	184	184	184	203	203	
	550			300			400			400		
308	406	549	323	322	319	322	319	294	319	294	291	
	20			20			20			20		
	80			80			80			80		
4	4	4	4	4	4	4	4	4	4	4	5	
	35			35			35			50		
130/475-200			130/475-310			130/475-430			130/475-600			
400			400			400			400			
22/30/30			22/30/30			22/30/30			22/30/30			
-			22			22			22			
5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7	
28/36/36	30/38/38	31/39/39	30/38/38	31/39/39	33/41/41	31/39/39	33/41/41	33/41/41	33/41/41	33/41/41	38/46/46	
-	-	-	52/60/60	53/61/61	55/63/63	53/61/61	55/63/63	55/63/63	55/63/63	55/63/63	60/68/68	
1,75/1,65/4,65-332			1,75/1,65/4,65-332			1,75/1,65/4,65-332			1,75/1,65/4,65-332			
5700			5800			5900			6300			
5,1x1,6x2,1			5,1x1,6x2,0			5,1x1,6x2,0			5,1x1,6x2,2			
0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/4	0/209	
0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/4	0/209	
-	-	-	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/4	0/209	

1) Rate of injection based on the standard plasticising unit

2) standard/increased/twin pump

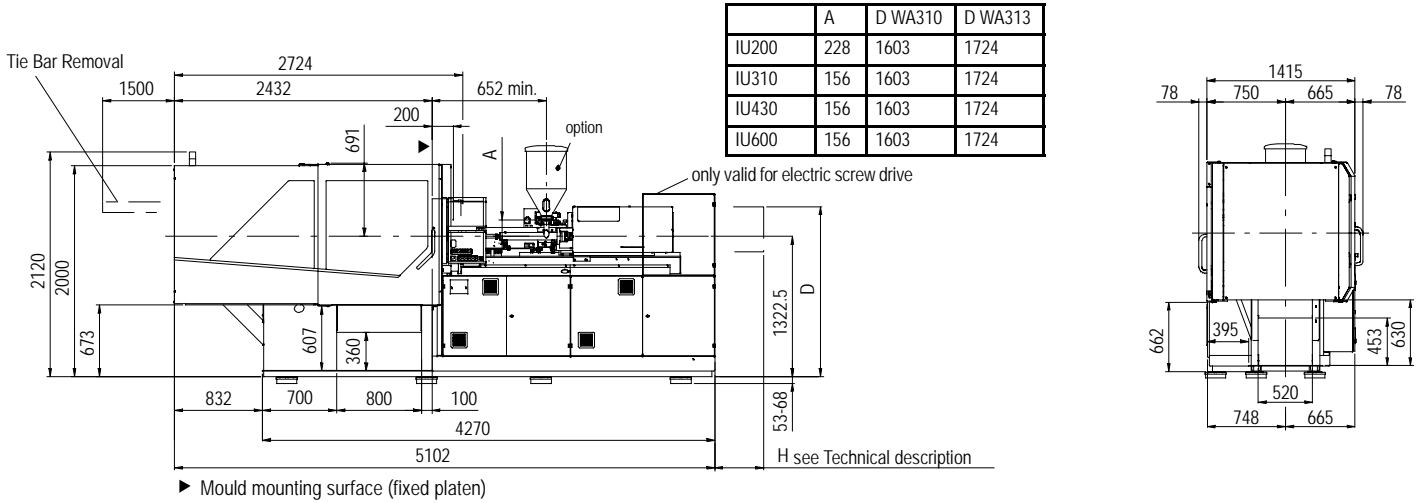
3) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

4) Optional

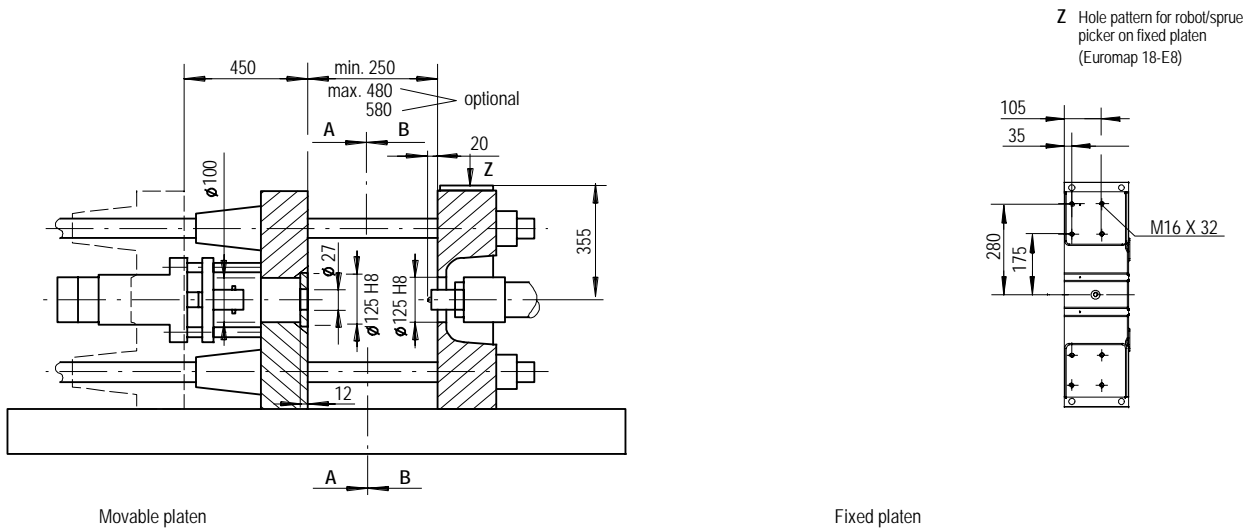
5) The net weight of the machine may vary depending on equipment

6) At nozzle contact / at max. distance of nozzle retraction

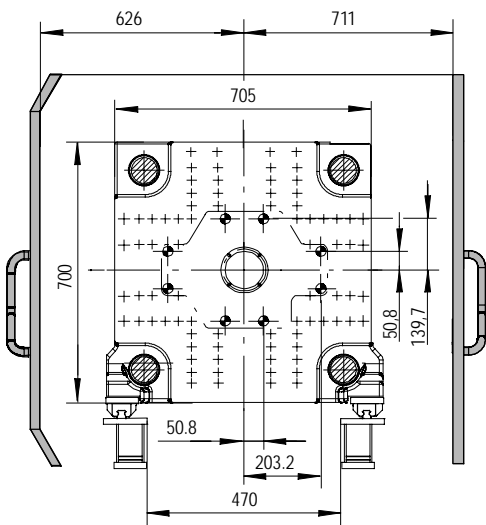
Machine dimensions Systec 130/475



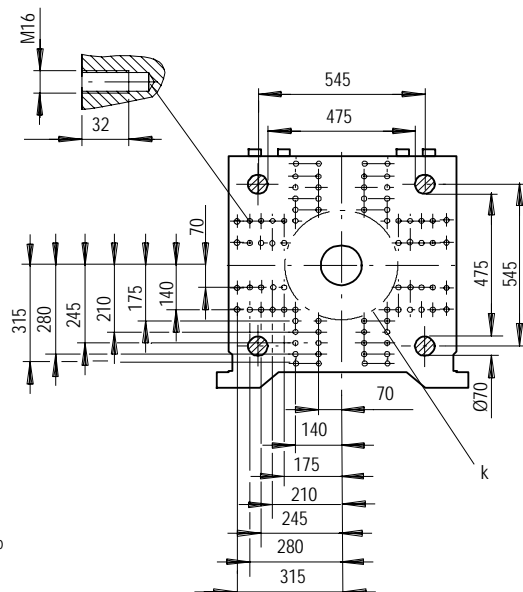
Platen dimensions Systec 130/475



B - B



A - A



Hole pattern according Euromap

Technical Data Systec 160/520

Sumitomo (SHI) Demag

Model description	
International size description	

Clamping unit

Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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.	[cm³]
Max. shot weight (PS)	[g]
Max. rate of injection ¹⁾	
> without accumulator ²⁾	[cm³/s]
> with accumulator	[cm³/s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ²⁾	[g/s]
> motor 2 (120 bar) ²⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ³⁾	[mm]
Nozzle stroke in automatic mode ³⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁴⁾	[ltr.]

General data

Oil tank capacity	[ltr.]
-------------------	--------

Installed electrical rating

> pump ²⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ²⁾	[kW]
> capacity with electr. drive ²⁾	[kW]
Dry cycles (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁶⁾	[mm]
Motor end projection 2 (H) ⁶⁾	[mm]
Electric drive projection (H) ⁶⁾	[mm]

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

Systec 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												

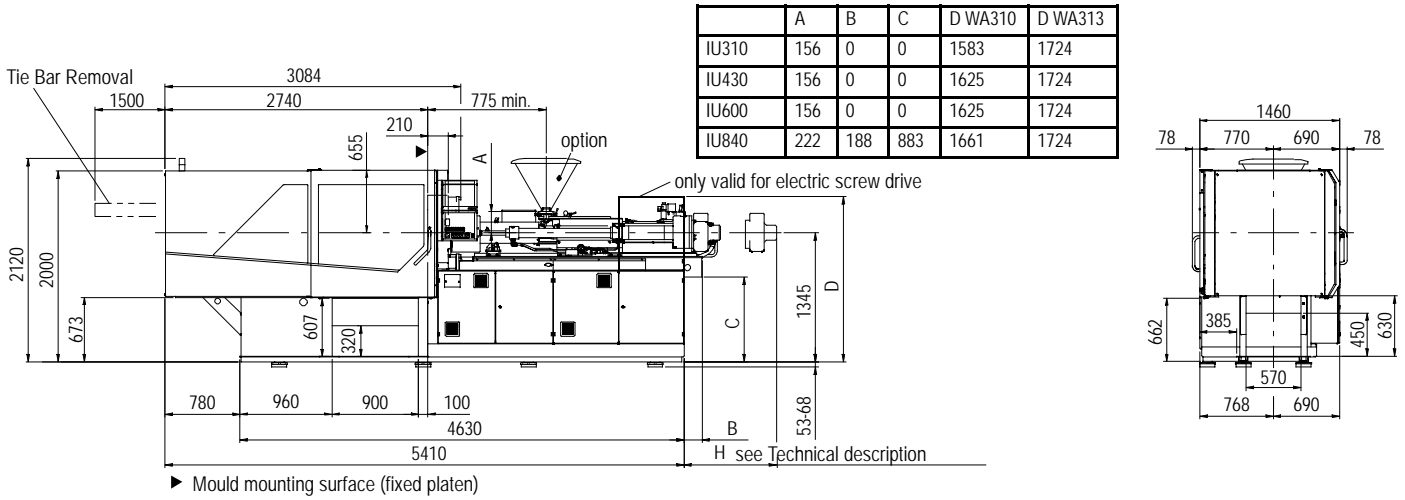
310			430			600			840		
30	35	40	35	40	45	40	45	50	45	50	60
standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard	standard
20	20	20	20	20	20	20	20	20	20	20	20
2755	2024	1550	2644	2025	1600	2423	1914	1550	2402	1946	1351
115	168	220	168	231	293	231	323	399	358	442	636
104	153	200	153	210	266	210	294	363	326	402	579
117/164/191	159/224/260	208/292/339	122/171/199	159/224/260	201/283/329	133/187/217	168/237/275	207/292/339	134/189/219	165/233/270	238/335/389
431	587	767	587	767	970	767	970	1198	875	1001	1272

25/26/26	35/35/35	51/52/52	28/35/35	41/52/52	51/66/66	25/32/32	32/40/40	45/57/57	21/29/29	30/42/42	46/65/65
20/26/26	28/35/35	41/52/52	22/28/28	33/42/42	41/53/53	20/25/25	25/32/32	36/46/46	15/21/21	21/29/29	33/46/46
19	26	38	26	38	47	38	47	54	53	60	65
162	175	175	175	184	184	184	203	203	225	225	225
300	300	300	400	400	400	400	400	400	915	762	465
323	322	319	322	319	294	319	294	291	420	407	368
20			20			20			20		
	80		80			80			110		
4	4	4	4	4	4	4	4	5	5	5	5
	35		35			50			70		

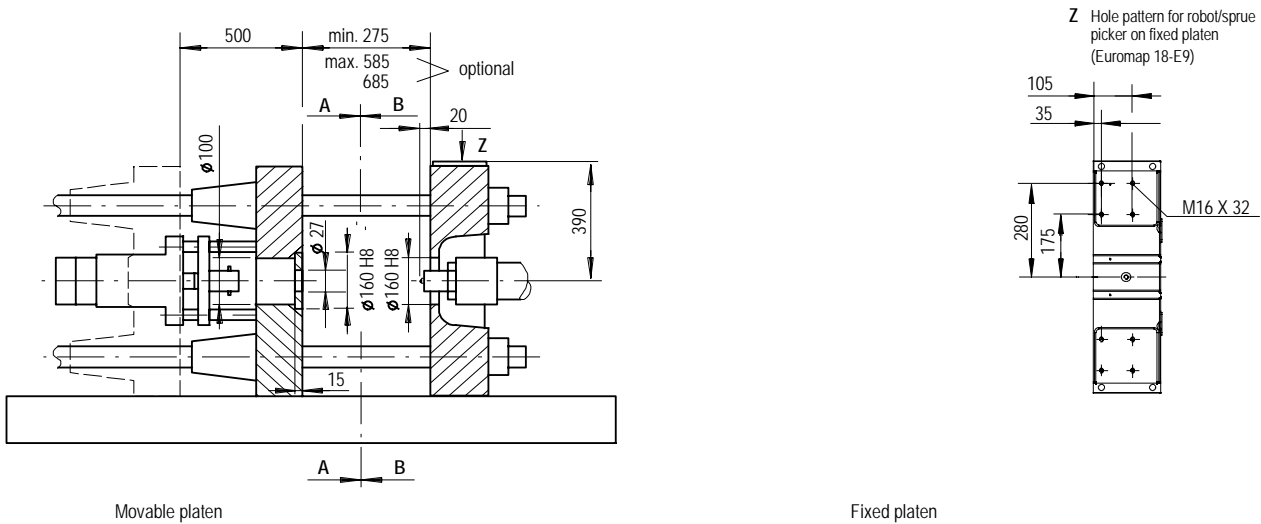
160/520-310			160/520-430			160/520-600			160/520-840		
400			400			400			400		
22/30/30			22/30/30			22/30/30			22/30/30		
22			22			22			22		
8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7	13	14,8	23
30/38/38	31/39/39	33/41/41	31/39/39	33/41/41	33/41/41	33/41/41	33/41/41	38/46/46	35/43/43	37/45/45	45/53/53
52/60/60	53/61/61	55/63/63	53/61/61	55/63/63	55/63/63	55/63/63	55/63/63	60/68/68	67/75/75	69/77/77	77/85/85
1,95/1,75/1,75-364			1,95/1,75/1,75-364			1,95/1,75/1,75-364			1,95/1,75/1,75-364		
6800			6800			6900			7300		
5,3x1,6x2,1			5,3x1,6x2,1			5,3x1,6x2,1			5,3x1,6x2,1		
0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/143	225/1316	378/1316	680/1316
0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/4	0/143	225/1316	378/11316	675/1316
0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/4	0/143	406/1316	559/1316	856/1316

- 1) Rate of injection based on the standard plasticising unit
- 2) standard/increased/twin pump
- 3) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
- 4) Optional
- 5) The net weight of the machine may vary depending on equipment
- 6) At nozzle contact / at max. distance of nozzle retraction

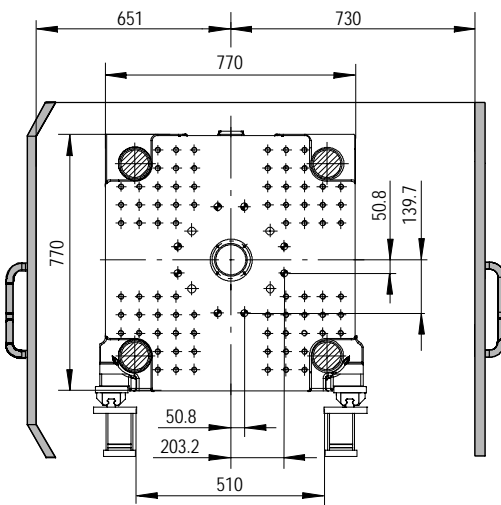
Machine dimensions Systec 160/520



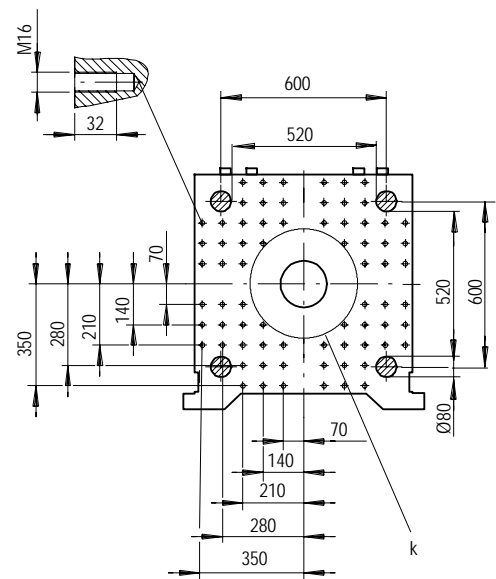
Platen dimensions Systec 160/520



B - B



A - A



Hole pattern according Euromap
 ⊕ bore diameter Ø 27 through holes

Technical Data Systec 210/580

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ¹⁾	
> without accumulator ²⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ²⁾	[g/s]
> motor 2 (120 bar) ²⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ³⁾	[mm]
Nozzle stroke in automatic mode ³⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁴⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ²⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ²⁾	[kW]
> capacity with electr. drive ²⁾	[kW]
Dry cycles (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁶⁾	[mm]
Motor end projection 2 (H) ⁶⁾	[mm]
Electric drive projection (H) ⁶⁾	[mm]

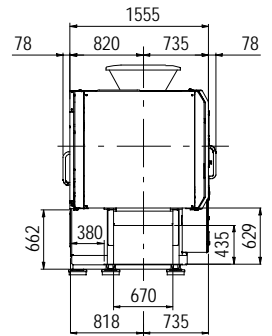
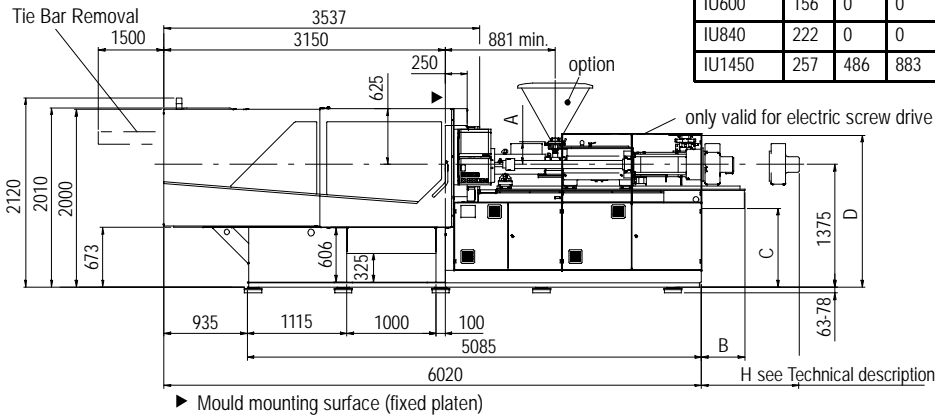
The shown specifications reflect the state at the time of printing. We reserve the right to modify specifications.
 Plasticising rate depends on processing conditions and material employed
 Electrical power supply refers to the standard configuration of the machine

Systec 210/580												
210/580-430			210/580-600			210/580-840			210/580-1450			
2100-430			2100-580			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	
2644	2025	1600	2423	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	
171/206/248	224/269/324	283/340/411	187/224/271	237/284/343	292/351/424	189/228/274	233/279/338	335/402/486	165/198/239	238/285/345	324/388/469	
587	767	970	767	970	1198	875	1001	1272	1001	1272	1462	
35/35/35	52/52/52	66/66/66	32/32/32	40/40/40	57/57/57	29/35/35	42/50/50	65/78/78	29/35/35	46/55/55	65/79/79	
28/28/28	42/42/42	53/53/53	25/25/25	32/32/32	46/46/46	21/25/25	29/35/35	46/55/55	18/22/22	29/35/35	41/49/49	
26	38	47	38	47	54	53	60	65	64	76	80	
175	184	184	184	203	203	225	225	225	270	270	270	
400	400	400	400	400	400	915	762	465	1100	803	499	
322	319	294	319	294	319	420	407	368	417	378	377	
	20			20			20			20		
	80			80			110			110		
4	4	4	4	4	5	5	5	5	5	5	5	
	35			50			70			110		
210/580-430			210/580-600			210/580-840			210/580-1450			
400			400			400			400			
30/37/37			30/37/37			30/37/37			30/37/37			
22			22			32			38			
9,4	11,1	11,3	11,1	11,3	15,7	13	14,8	23	14,8	23	27	
39/46/46	41/48/48	41/48/48	41/48/48	41/48/48	46/53/53	43/50/50	45/52/52	53/60/60	45/52/52	53/60/60	57/64/64	
61/68/68	63/70/70	63/70/70	63/70/70	63/70/70	68/75/75	75/82/82	77/84/84	85/92/92	83/90/90	91/98/98	95/102/102	
2,25/2,05/1,95-406			2,25/2,05/1,95-406			2,25/2,05/1,95-406			2,25/2,05/1,95-406			
9300			9400			9600			10300			
6,0x1,7x2,1			6,0x1,7x2,1			6,0x1,7x2,1			6,0x1,7x2,1			
0/0	0/0	0/0	0/0	0/0	0/0	25/950	178/950	475/950	323/1462	620/1462	924/1462	
0/0	0/0	0/0	0/0	0/0	0/0	25/950	178/950	475/950	362/1462	659/1462	963/1462	
0/0	0/0	0/0	0/0	0/0	0/0	206/1131	359/1131	656/1131	554/1654	851/1654	1155/1654	

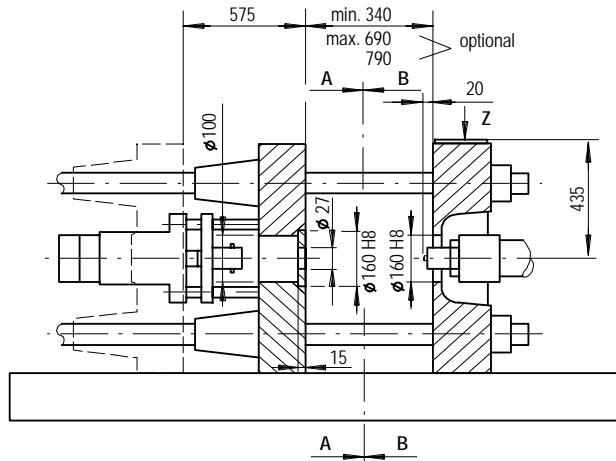
- 1) Rate of injection based on the standard plasticising unit
- 2) standard/increased/twin pump
- 3) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
- 4) Optional
- 5) The net weight of the machine may vary depending on equipment
- 6) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 210/580

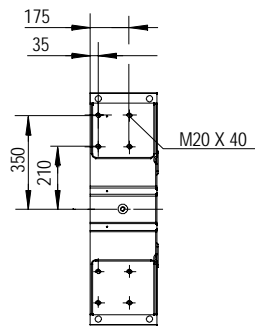
	A	B	C	D WA310	D WA313
IU430	156	0	0	1655	1724
IU600	156	0	0	1655	1724
IU840	222	0	0	1691	1724
IU1450	257	486	883	1702	1724



Platen dimensions Systec 210/580



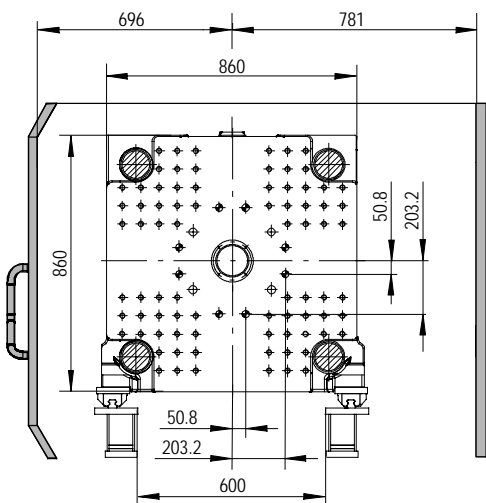
Z Hole pattern for robot/sprue picker on fixed platen (Euomap 18-E10)



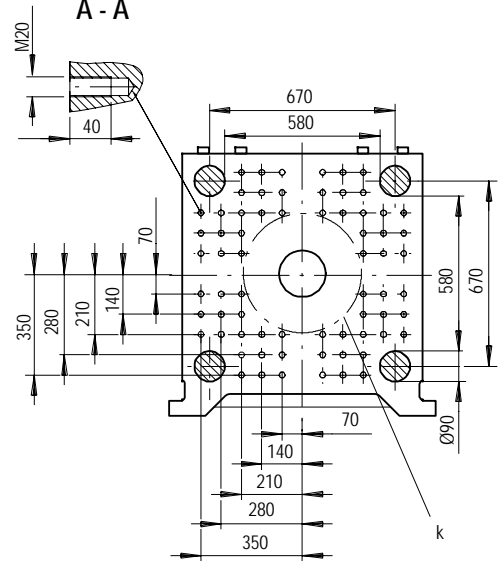
Movable platen

Fixed platen

B - B



A - A



Hole pattern according Euomap
 ⊕ bore diameter \varnothing 27 through holes

Technical Data Systec 280/630

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ¹⁾	
> without accumulator ²⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ²⁾	[g/s]
> motor 2 (120 bar) ²⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ³⁾	[mm]
Nozzle stroke in automatic mode ³⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁴⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ²⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ²⁾	[kW]
> capacity with electr. drive ²⁾	[kW]
Dry cycles (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁶⁾	[mm]
Motor end projection 2 (H) ⁶⁾	[mm]
Electric drive projection (H) ⁶⁾	[mm]

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

Plasticising rate depends on processing conditions and material employed

Electrical power supply refers to the standard configuration of the machine

Systec 280/630												
280/630-600			280/630-840			280/630-1450			280/630-2300			
2800-600			2800-840			2800-1450			2800-2300			
280/630												
			2800									
			3080									
			675									
			330									
			710/830									
			1385/1505									
			930x930									
			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	
2423	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	
224/262/346	284/331/438	351/409/541	226/264/349	279/326/431	402/469/620	198/231/306	285/333/440	388/453/599	213/248/328	290/338/447	378/441/583	
767	970	1198	875	1001	1272	1001	1272	1462	1272	1462	1608	
32/32/32	40/40/40	57/57/57	35/41/41	50/58/58	78/91/91	35/41/41	55/64/64	79/92/92	35/40/40	49/58/58	69/81/81	
25/25/25	32/32/32	46/46/46	25/29/29	35/41/41	55/64/64	22/26/26	35/40/40	49/58/58	24/28/28	35/41/41	49/57/57	
38	47	54	53	60	65	64	76	80	84	87	93	
184	203	203	225	225	225	270	270	270	315	315	315	
400	400	400	915	762	465	1100	803	499	1155	851	632	
319	294	319	420	407	368	417	378	377	418	417	420	
	20			20			20			20		
	80			110			110			110		
4	4	5	5	5	5	5	5	5	5	5	5	
	50			70			110			110		
280/630-600			280/630-840			280/630-1450			280/630-2300			
549			549			549			549			
37/45/45			37/45/45			37/45/45			37/45/45			
11,1	11,3	15,7	13	14,8	23	14,8	23	27	23	27	31	
48/56/56	48/56/56	53/61/61	50/58/58	52/60/60	60/68/68	52/60/60	60/68/68	64/72/72	60/68/68	64/72/72	68/76/76	
70/78/78	70/78/78	75/83/83	82/90/90	84/92/92	92/100/100	90/98/98	98/106/106	102/110/110	107/115/115	111/119/119	115/123/123	
2,3/2,1/2,05-441			2,3/2,1/2,05-441			2,3/2,1/2,05-441			2,3/2,1/2,05-441			
11800			12200			12700			13300			
6,6x1,9x2,1			6,6x1,9x2,1			6,6x1,9x2,1			6,6x1,9x2,1			
0/0	0/0	0/0	0/580	0/580	105/580	0/1092	250/1092	554/1092	379/1567	683/1567	902/1567	
0/0	0/0	0/0	0/580	0/580	105/580	0/1092	289/1092	593/1092	412/1567	716/1567	935/1567	
0/0	0/0	0/0	0/756	0/756	286/756	184/1279	481/1279	785/1279	537/1687	841/1687	1060/1687	

1) Rate of injection based on the standard plasticising unit

2) standard/increased/twin pump

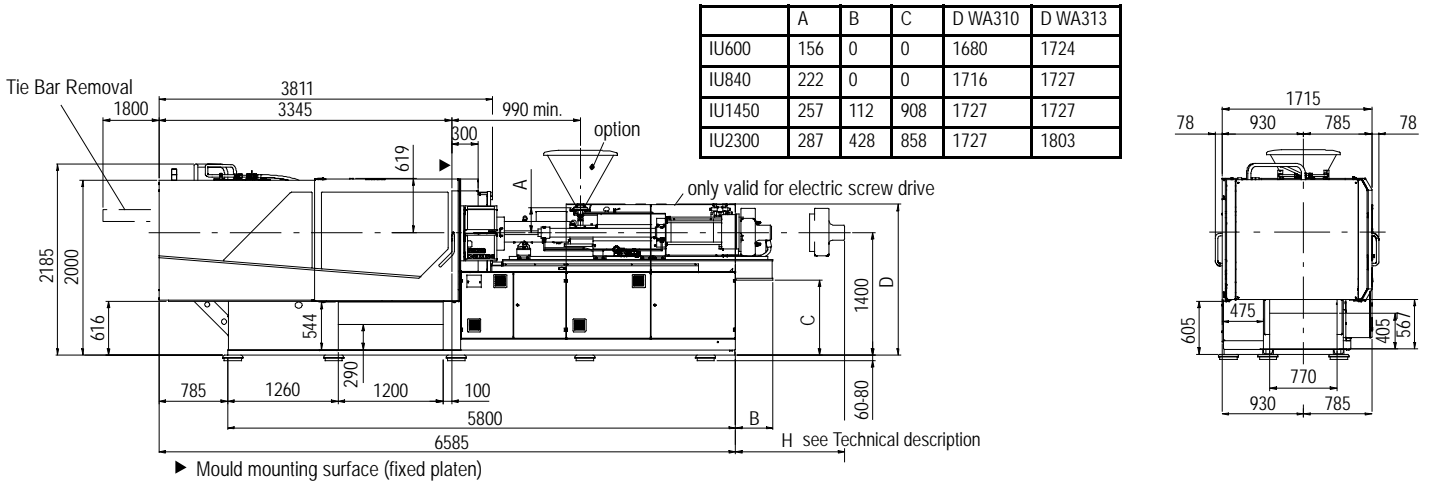
3) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

4) Optional

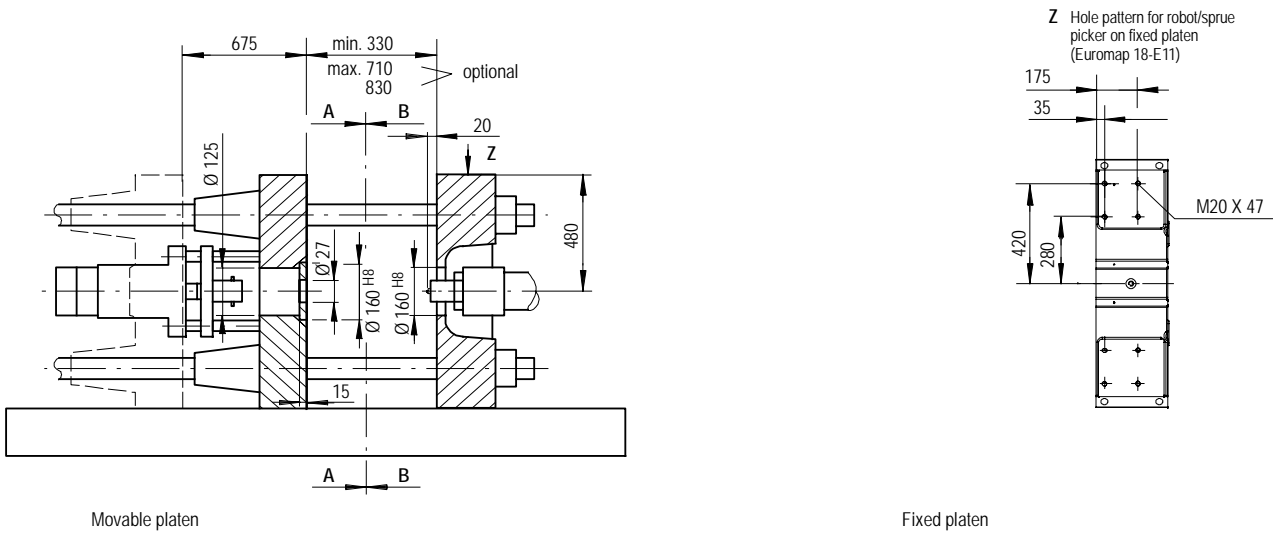
5) The net weight of the machine may vary depending on equipment

6) At nozzle contact / at max. distance of nozzle retraction

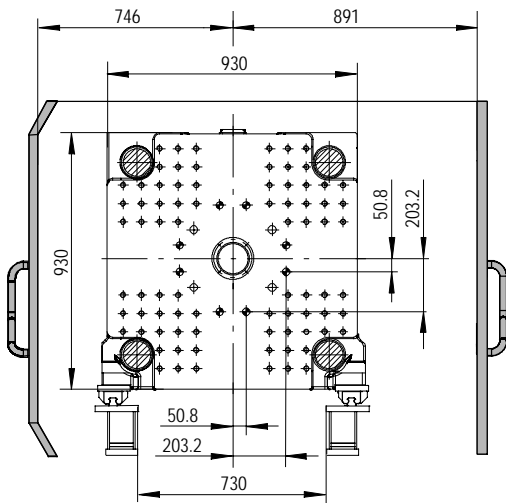
Machine dimensions Systec 280/630



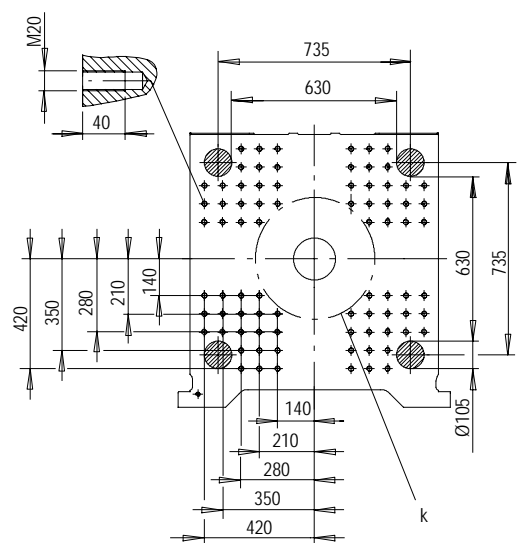
Platen dimensions Systec 280/630



B - B



A - A



Hole pattern according Euromap
 ⊕ bore diameter $\varnothing 27$ through holes

Technical Data Systec 350/720

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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.	[cm³]
Max. shot weight (PS)	[g]
Max. rate of injection ¹⁾	
> without accumulator ²⁾	[cm³/s]
> with accumulator	[cm³/s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ²⁾	[g/s]
> motor 2 (120 bar) ²⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ³⁾	[mm]
Nozzle stroke in automatic mode ³⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁴⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ²⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ²⁾	[kW]
> capacity with electr. drive ²⁾	[kW]
Dry cycles (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁶⁾	[mm]
Motor end projection 2 (H) ⁶⁾	[mm]
Electric drive projection (H) ⁶⁾	[mm]

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

Plasticising rate depends on processing conditions and material employed

Electrical power supply refers to the standard configuration of the machine

Systec 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												
1040/1060												
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	
2423	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	
261/320/395	331/405/500	408/500/617	264/323/398	326/398/491	469/573/708	231/282/348	333/407/502	453/553/683	248/303/374	338/413/509	441/539/665	
767	970	1198	875	1001	1272	1001	1272	1462	1272	1462	1608	
32/32/32	40/40/40	57/57/57	41/50/50	58/71/71	91/111/111	41/50/50	64/78/78	92/112/112	40/49/49	58/70/70	81/98/98	
25/25/25	32/32/32	46/46/46	29/35/35	41/50/50	64/78/78	26/32/32	40/49/49	58/70/70	25/35/35	41/50/50	57/69/69	
38	47	54	53	60	65	64	76	80	84	87	93	
184	203	203	225	225	225	270	270	270	315	315	315	
400	400	400	915	762	465	1185	888	584	1155	851	632	
319	294	319	420	407	368	417	378	377	418	417	420	
	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			
549			549			549			549			
45/55/55			45/55/55			45/55/55			45/55/55			
22			32			38			47			
11,1	11,3	15,7	13	14,8	23	14,8	23	27	23	27	31	
56/66/66	56/66/66	61/71/71	58/68/68	60/70/70	68/78/78	60/70/70	68/78/78	72/82/82	68/78/78	72/82/82	76/86/86	
78/88/88	78/88/88	83/93/93	90/100/100	92/102/102	100/110/110	98/108/108	106/116/116	110/120/120	115/125/125	119/129/129	123/133/133	
2,6/2,4/2,3-504			2,6/2,4/2,3-504			2,6/2,4/2,3-504			2,6/2,4/2,3-504			
15700			16100			16600			17300			
7,0x2,0x2,3			7,0x2,0x2,2			7,0x2,0x2,4			7,0x2,0x2,4			
0/0	0/0	0/0	0/575	0/575	105/575	0/1087	250/1087	554/1087	379/1562	683/1562	902/1562	
0/0	0/0	0/0	0/575	0/575	105/575	0/1087	289/1087	593/1087	412/1562	716/1562	935/1562	
0/0	0/0	0/0	0/756	0/756	286/756	184/1279	481/1279	785/1279	537/1687	841/1687	1060/1687	

1) Rate of injection based on the standard plasticising unit

2) standard/increased/twin pump

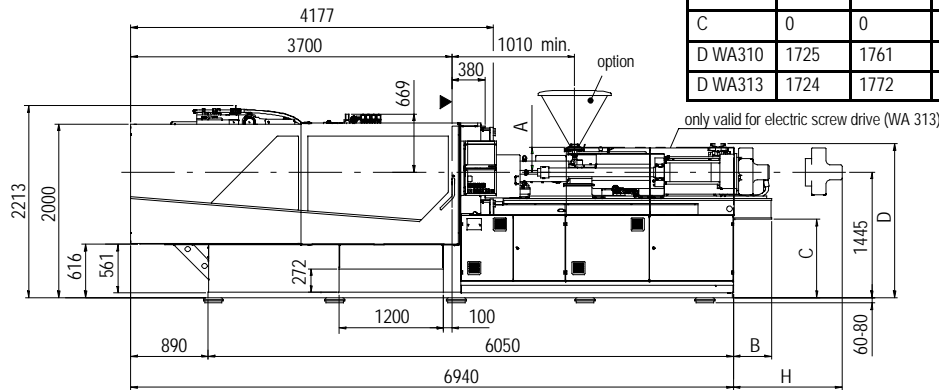
3) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles

4) Optional

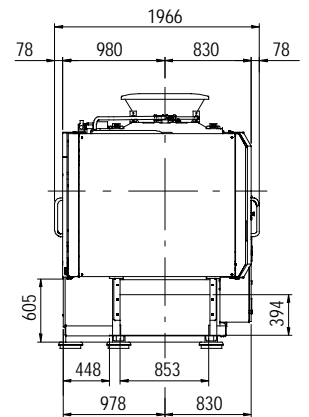
5) The net weight of the machine may vary depending on equipment

6) At nozzle contact / at max. distance of nozzle retraction

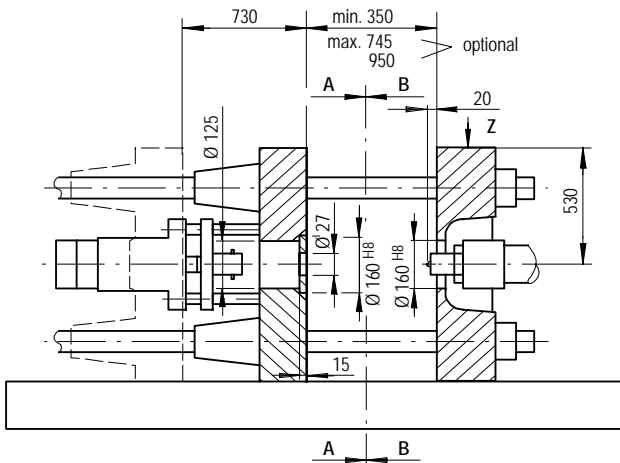
Machine dimensions Systec 350/720



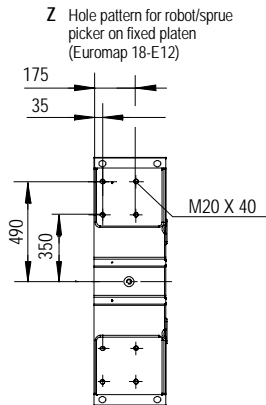
	IU600	IU840	IU1450	IU2300
A	166	222	257	287
B	0	0	124	440
C	0	0	953	903
D WA310	1725	1761	1772	1772
D WA313	1724	1772	1772	1848



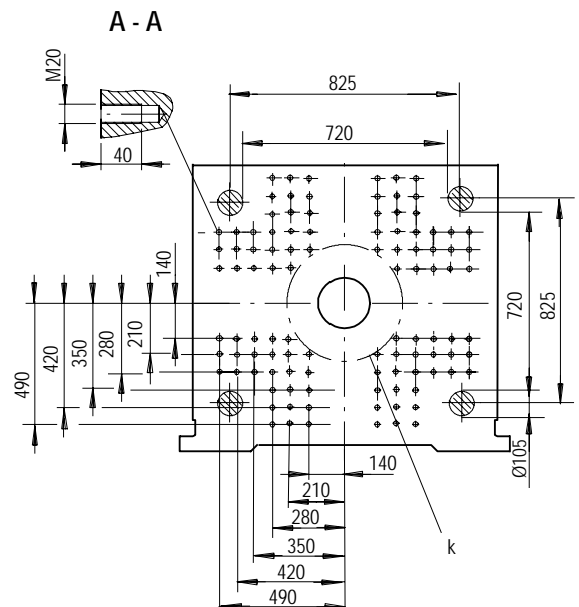
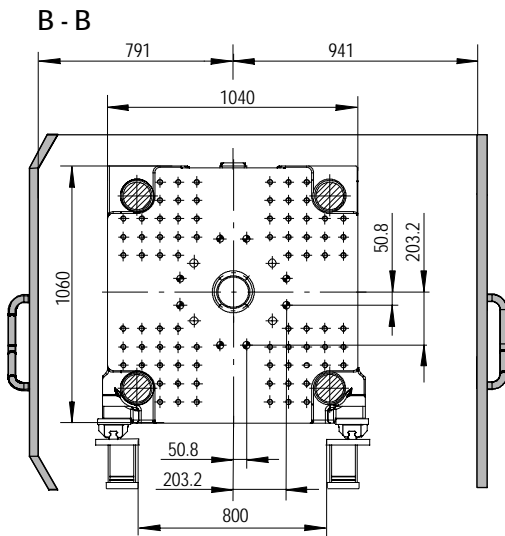
Platen dimensions Systec 350/720



Movable platen



Fixed platen



Hole pattern according Euromap
 ⊕ bore diameter Ø 27 through holes

Technical Data Systec 420/820

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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)	[g]
Max. rate of injection ¹⁾	
> without accumulator ²⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS)	[g/s]
> motor 1 (120 bar) ²⁾	[g/s]
> motor 2 (120 bar) ²⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ³⁾	[mm]
Nozzle stroke in automatic mode ³⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁴⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ²⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ²⁾	[kW]
> capacity with electr. drive ²⁾	[kW]
Dry cycles (Euromap 6) ²⁾	[s-mm]
Net weight (without oil) ⁵⁾	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁶⁾	[mm]
Motor end projection 2 (H) ⁶⁾	[mm]
Electric drive projection (H) ⁶⁾	[mm]

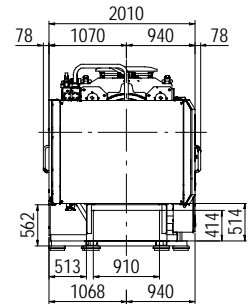
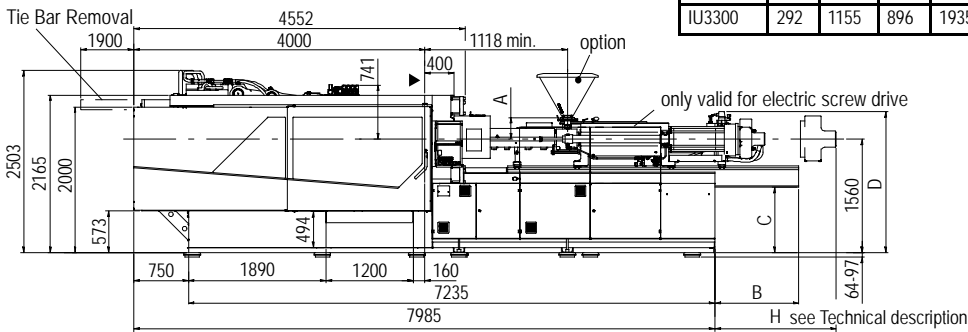
The shown specifications reflect the state at the time of printing. We reserve the right to modify specifications.
 Plasticising rate depends on processing conditions and material employed
 Electrical power supply refers to the standard configuration of the machine

Systec 420/820												
420/820-840			420/820-1450			420/820-2300			420/820-3300			
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	2420	1877	1437	2423	1855	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	
264/323/398	326/398/491	469/573/708	231/282/348	333/407/502	453/553/683	248/303/374	338/413/509	441/539/665	320/449/527	418/586/688	589/826/970	
875	1001	1272	1001	1272	1462	1272	1462	1608	1462	1608	1980	
41/50/50	58/71/71	91/111/111	41/50/50	64/78/78	92/112/112	40/49/49	58/70/70	81/98/98	50/69/69	69/97/97	111/156/156	
29/35/35	41/50/50	64/78/78	26/32/32	40/49/49	58/70/70	28/35/35	41/50/50	57/69/69	33/46/46	46/65/65	74/104/104	
53	60	65	64	76	80	84	87	93	105	129	155	
225	225	225	270	270	270	315	315	315	354	354	354	
930	777	480	1205	908	604	1155	851	632	980	980	613	
420	407	368	417	378	377	418	417	420	728	728	708	
	20			20			20			20		
	110			110			110			110		
	5			5			5			5		
	70			110			110			110		
420/820-840			420/820-1450			420/820-2300			420/820-3300			
670			670			670			670			
45/55/55			45/55/55			45/55/55			55/75/75			
32			38			47			76			
13	14,8	23	14,8	23	27	23	27	31	30,6	30,6	42,6	
58/68/68	60/70/70	68/78/78	60/70/70	68/78/78	72/82/82	68/78/78	72/82/82	76/86/86	86/106/106	86/106/106	98/118/118	
90/100/100	92/102/102	100/110/110	98/108/108	106/116/116	110/120/120	115/125/125	119/129/129	123/133/133	162/182/182	162/182/182	174/194/194	
3,1/2,9/2,8-574			3,1/2,9/2,8-574			3,1/2,9/2,8-574			3,1/2,9/2,55-574			
21500			22000			23000			23700			
8,0x2,2x2,3			8,0x2,2x2,5			8,0x2,2x2,5			8,0x2,2x2,5			
0/0	0/0	0/0	0/342	0/342	0/342	0/817	0/817	167/817	690/1763	690/1763	1057/1763	
0/0	0/0	0/0	0/342	0/342	0/342	0/817	0/817	190/817	783/1763	783/1763	1150/1763	
0/11	0/11	0/11	0/534	0/534	40/534	0/942	96/942	315/942	965/1945	965/1945	1332/1945	

- 1) Rate of injection based on the standard plasticising unit
- 2) standard/increased/twin pump
- 3) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
- 4) Optional
- 5) The net weight of the machine may vary depending on equipment
- 6) At nozzle contact / at max. distance of nozzle retraction

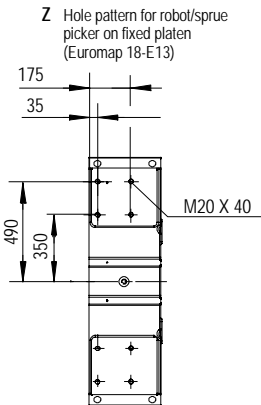
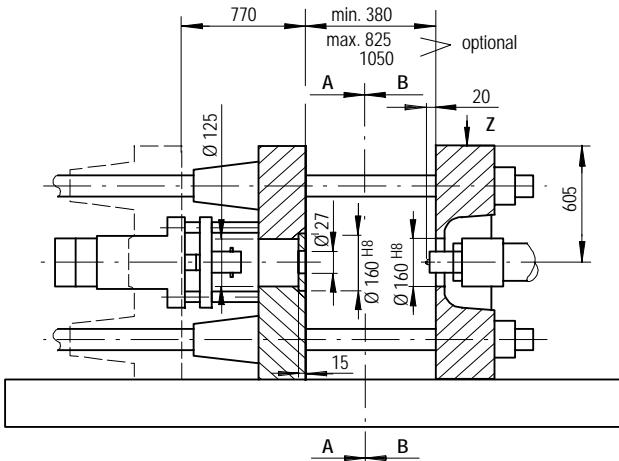
Machine dimensions Systec 420/820

	A	B	C	D WA310	D WA313
IU840	222	0	0	1876	1887
IU1450	257	0	0	1887	1887
IU2300	287	0	0	1887	1963
IU3300	292	1155	896	1935	1963



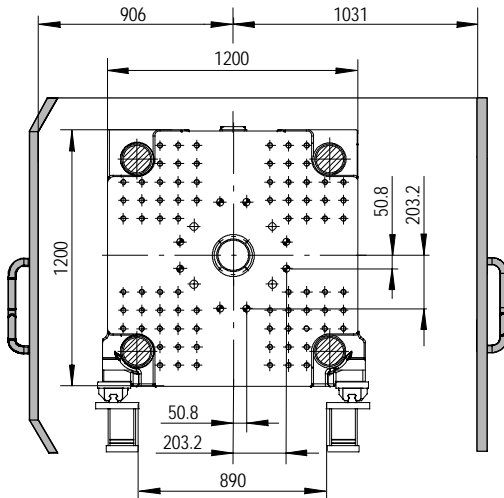
► Mould mounting surface (fixed platen)

Platen dimensions Systec 420/820



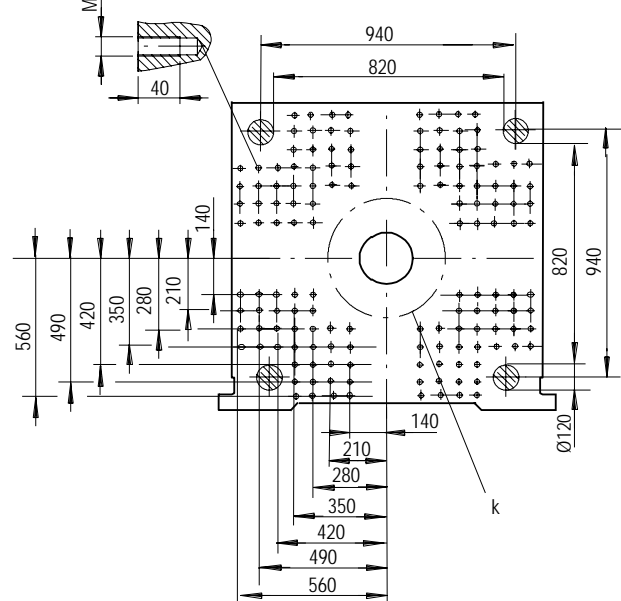
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 ⊕ bore diameter $\varnothing 27$ through holes

Technical Data SysteC 500/920

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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 ³⁾	
> without accumulator ⁴⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS, PE*)	
> motor 1 (120 bar) ⁴⁾	[g/s]
> motor 2 (120 bar) ⁴⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁵⁾	[mm]
Nozzle stroke in automatic mode ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ⁴⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ⁴⁾	[kW]
> capacity with electr. drive ⁴⁾	[kW]
Dry cycles (Euromap 6) ⁴⁾	[s-mm]
Net weight (without oil) ^{7) 8)}	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁹⁾	[mm]
Motor end projection 2 (H) ⁹⁾	[mm]
Electric drive projection (H) ⁹⁾	[mm]

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

Plasticising rate depends on processing conditions and material employed

Electrical power supply refers to the standard configuration of the machine

SysteC 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 ¹⁾							
				5200							
				6700							
				260							
				96							
				42							
2300			3300				6400				
60	70	80	70	70	80	95	80	80	95	110	95
standard	standard	standard	special ²⁾	standard	standard	standard	special ²⁾	standard	standard	standard	special ²⁾
20	20	20	25	23	20	20	24	24	20	20	23
2420	1877	1437	1877	2423	1855	1316	1855	2391	1895	1413	1895
891	1212	1583	1212	1362	1779	2509	1779	2388	3367	4514	3367
810	1103	1441	885*	1240	1619	2283	1299*	2173	3064	4108	2460*
248/303/374	338/413/509	441/539/665	338/413/509	320/449/527	418/586/688	589/826/970	418/586/688	407/475/561	574/670/791	769/898/1060	574/670/791
1272	1462	1608	1462	1462	1608	1985	1608	1608	1985	2281	1985
40/49/49	58/70/70	81/98/98	52/63/63	50/69/69	69/97/97	111/156/156	62/87/87	65/76/76	104/122/122	151/176/176	93/108/108
28/35/35	41/50/50	57/69/69	36/45/45*	33/46/46	46/65/65	74/104/104	41/58/58*	43/50/50	69/80/80	99/116/116	61/71/71*
84	87	93	79	105	129	155	115	132	176	187	157
		315				354				475	
1240	936	717	589	1070	1070	703	703	1100	1100	657	657
766	765	717	589	728	728	703	703	708	708	657	657
		40				40				40	
		110				110				110	
		5				6				6	
		110				110				110	
500/920-2300			500/920-3300				500/920-6400				
760			760				760/1000				
45/55/55			55/75/75				75/90/90				
47			76				90				
23	27	31	32	31	31	43	43	43	43	59	59
68/78/78	72/82/82	76/86/86	77/87/87	86/106/106	86/106/106	98/118/118	98/118/118	118/133/133	118/133/133	134/149/149	134/149/149
115/125/125	119/129/129	123/133/133	124/134/134	162/182/182	162/182/182	174/194/194	-/-/-	208/223/223	208/223/223	224/239/239	224/239/239
3,6/3,1/2,4-644			3,1/2,5/2,3-644				2,5/2,3/2,1-644				
18000/6800/24800			18000/7600/25600				18000/7800/25800				
8,4x2,3x2,5			9,2x2,3x2,5				9,2x2,3x2,5				
0/612	0/612	0/612	0/612	0/775	0/775	0/775	0/775	16/1189	16/1189	459/1189	459/1189
0/612	0/612	0/612	0/612	0/775	0/775	0/775	0/775	89/1189	89/1189	532/1189	532/1189
0/612	0/612	0/612	26/612	0/775	0/775	72/775	72/775	0/1060	0/1060	403/1060	403/1060

1) Increased mould weights for stack moulds on demand

2) Shear and mixing unit

3) Rate of injection based on the standard plasticising unit

4) standard/increased/twin pump

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

6) Optional

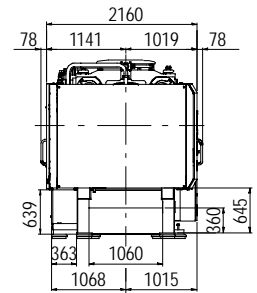
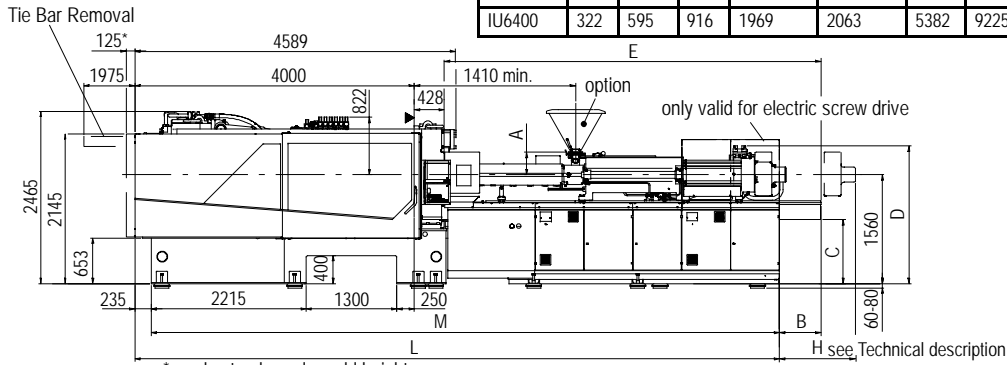
7) Clamping unit/Injection unit/Overall

8) The weight of the machine may vary depending on equipment

9) At nozzle contact / at max. distance of nozzle retraction

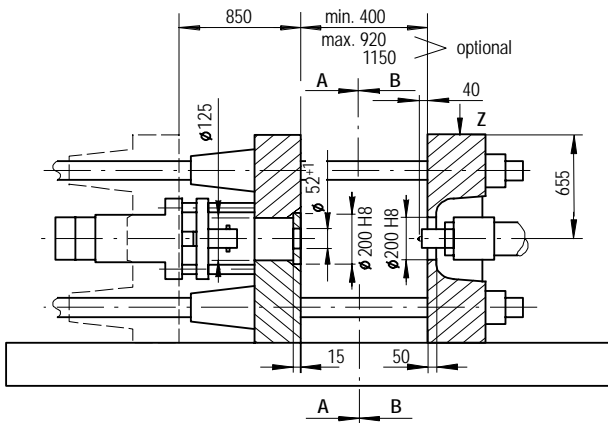
Machine dimensions Systec 500/920

	A	B	C	D WA310	D WA313	E	L	M
IU2300	287	0	0	1887	2063	3947	8385	8150
IU3300	292	0	0	1935	2063	4787	9225	8990
IU6400	322	595	916	1969	2063	5382	9225	8990

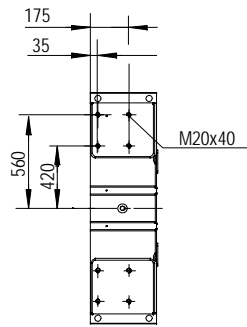


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 500/920

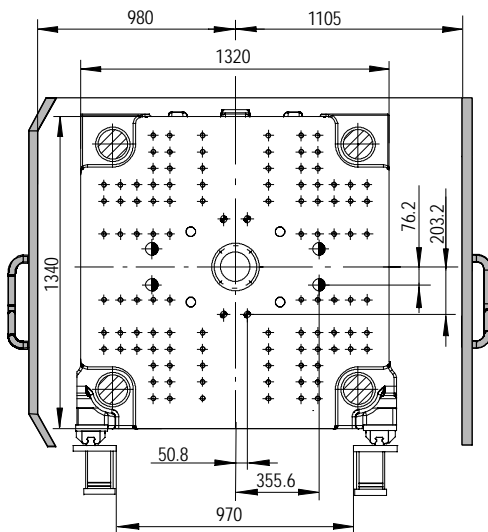


Z Hole pattern for robot/sprue picker on fixed platen



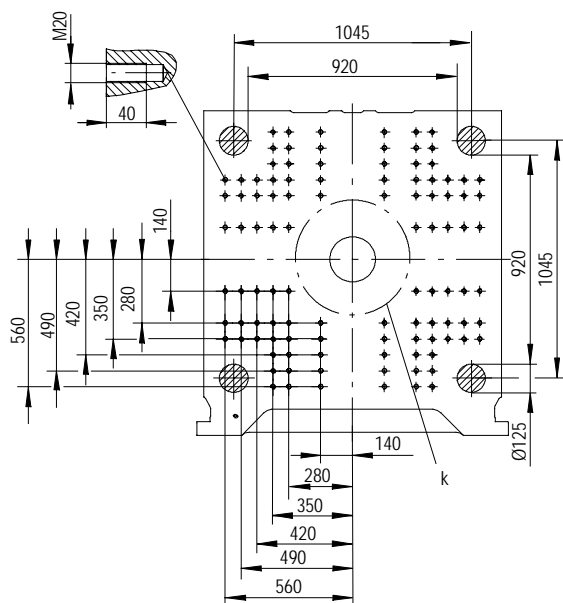
Movable platen

B - B



Fixed platen

A - A



- Hole pattern according Euromap
- ◆ bore diameter $\varnothing 52^{+1}$ through holes
- ◆ bore diameter $\varnothing 27$ through holes

Technical Data Systec 650/1020

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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 ³⁾	
> without accumulator ⁴⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS, PE*) [g/s]	
> motor 1 (120 bar) ⁴⁾	[g/s]
> motor 2 (120 bar) ⁴⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁵⁾	[mm]
Nozzle stroke in automatic mode ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ⁴⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ⁴⁾	[kW]
> capacity with electr. drive ⁴⁾	[kW]
Dry cycles (Euromap 6) ⁴⁾	[s-mm]
Net weight (without oil) ^{7) 8)}	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁹⁾	[mm]
Motor end projection 2 (H) ⁹⁾	[mm]
Electric drive projection (H) ⁹⁾	[mm]

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

Plasticising rate depends on processing conditions and material employed

Electrical power supply refers to the standard configuration of the machine

Systec 650/1020											
650/1020-3300				650/1020-6400				650/1020-9500			
6500-3300				6500-6400				6500-9500			
650/1020											
6500											
7150											
930											
450											
1020/1250											
1950/2180											
1450x1470											
1020x1020											
500											
11200 ¹⁾											
6700											
8600											
300											
149											
76											
3300			6400				9500				
70	80	95	80	80	95	110	95	95	110	130	110
standard	standard	standard	special ²⁾	standard	standard	standard	special ²⁾	standard	standard	standard	special ²⁾
23	20	20	24	24	20	20	23	23	20	20	24
2423	1855	1316	1855	2391	1895	1413	1895	2434	1815	1300	1815
1362	1779	2509	1779	2388	3367	4514	3367	3899	5227	7300	5227
1240	1619	2283	1299*	2173	3064	4108	2460*	3548	4756	6643	3816*
449/523/618	586/684/808	826/964/1139	586/684/808	407/475/561	574/670/791	769/898/1060	574/670/791	521/637/744	699/854/998	976/1192/1394	699/854/998
1462	1608	1985	1608	1608	1985	2281	1985	1985	2281	2787	2281
69/81/81	97/113/113	156/182/182	87/101/101*	65/76/76	104/122/122	151/176/176	93/108/108*	80/98/98	116/141/141	164/200/200	94/115/115*
46/54/54	65/76/76	104/122/122	58/68/68*	43/50/50	69/80/80	99/116/116	61/71/71*	54/66/66	78/95/95	110/135/135	64/78/78*
105	129	155	115*	132	176	187	157*	182	223	212	122*
354			475				550				
1155	1155	788	788	1100	1100	657	657	1340	1340	753	753
820	820	788	788	715	715	657	657	800	800	753	753
40			40				40				
110			110				110				
6	6	6	6	6	6	6	6	6	6	7	7
110			110				110				
650/1020-3300				650/1020-6400				650/1020-9500			
760/1000				760/1000				1300			
75/90/90				75/90/90				90/110/110			
76				90				115			
31	31	43	43	43	43	59	59	59	59	79	79
106/121/121	106/121/121	118/133/133	118/133/133	118/133/133	118/133/133	134/149/149	134/149/149	149/169/169	149/169/169	169/189/189	169/189/189
182/197/197	182/197/197	194/209/209	-/-/-	208/223/223	208/223/223	224/239/239	224/239/239	264/284/284	264/284/284	284/304/304	284/304/304
3,3/2,9/2,9-714				3,3/2,9/2,7-714				2,9/2,4/2,3-714			
27500/7600/35100				27500/7800/35300				27500/10900/38400			
9,6x2,5x2,6				9,6x2,5x2,6				11,0x2,5x2,6			
0/495	0/495	0/495	0/495	97/1197	97/1197	540/1197	540/1197	0/647	0/647	0/647	0/647
0/588	0/588	0/588	0/588	170/1270	170/1270	613/1270	613/1270	0/647	0/647	0/647	0/647
0/770	0/770	0/770	0/770	0/1060	0/1060	403/1060	403/1060	0/594	0/594	0/594	0/594

1) Increased mould weights for stack moulds on demand

2) Shear and mixing unit

3) Rate of injection based on the standard plasticising unit

4) standard/increased/twin pump

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

6) Optional

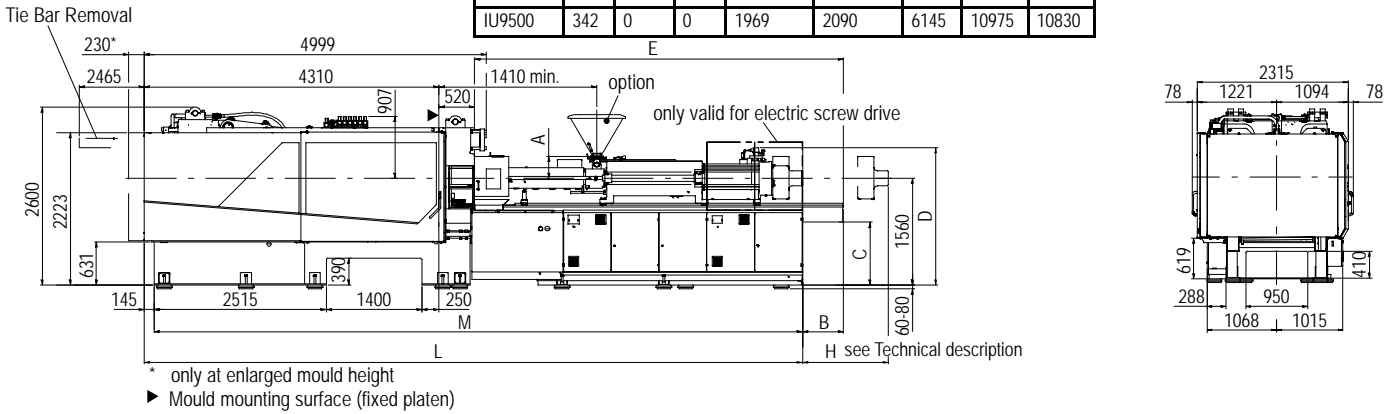
7) Clamping unit/Injection unit/Overall

8) The weight of the machine may vary depending on equipment

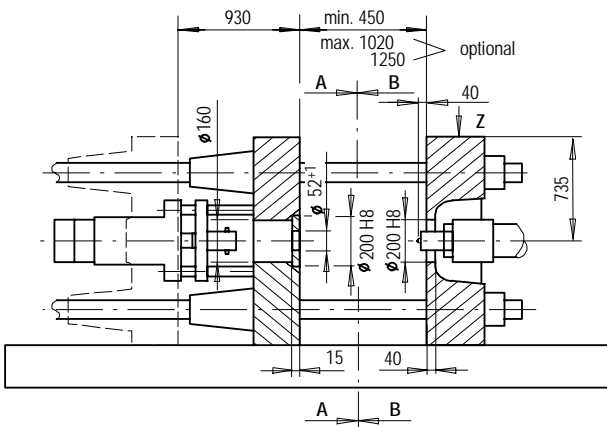
9) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 650/1020

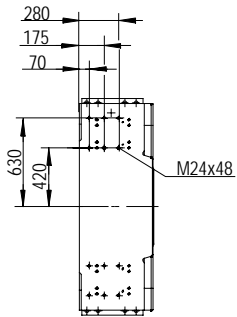
	A	B	C	D WA310	D WA313	E	L	M
IU3300	292	0	0	1935	2090	4795	9625	9480
IU6400	322	595	916	2011	2090	5390	9625	9480
IU9500	342	0	0	1969	2090	6145	10975	10830



Platen dimensions Systec 650/1020



Z Hole pattern for robot/sprue picker on fixed platen

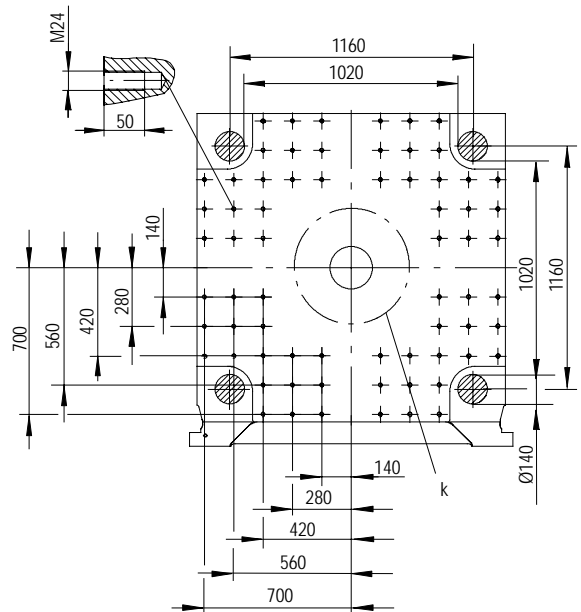
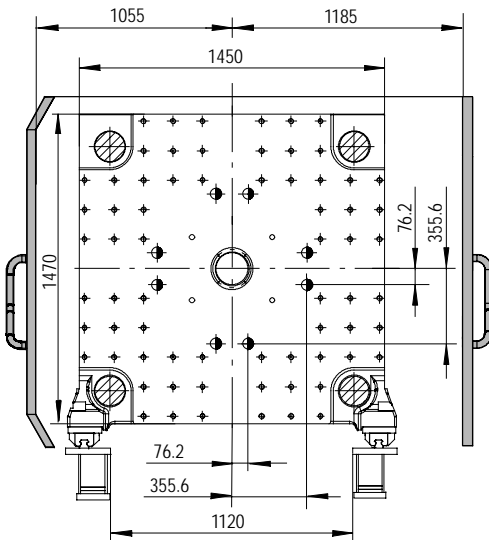


Movable platen

Fixed platen

B - B

A - A



Hole pattern according Euromap
 ◆ bore diameter $\varnothing 52^{+1}$ through holes

Technical Data Sytec 800/1120

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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 ³⁾	
> without accumulator ⁴⁾	[cm ³ /s]
> with accumulator	[cm ³ /s]
Plasticising rate (PS, PE*) [g/s]	
> motor 1 (120 bar) ⁴⁾	[g/s]
> motor 2 (120 bar) ⁴⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁵⁾	[mm]
Nozzle stroke in automatic mode ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ⁴⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ⁴⁾	[kW]
> capacity with electr. drive ⁴⁾	[kW]
Dry cycles (Euromap 6) ⁴⁾	[s-mm]
Net weight (without oil) ^{7) 8)}	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ⁹⁾	[mm]
Motor end projection 2 (H) ⁹⁾	[mm]
Electric drive projection (H) ⁹⁾	[mm]

The shown specifications reflect the state at the time of printing. 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

Sytec 800/1120							
800/1120-6400				800/1120-9500			
8000-6400				8000-9500			
800/1120							
8000							
8800							
1030							
700							
1120/1350							
2150/2380							
1620x1620							
1120x1120							
500							
14000 ¹⁾							
8400							
10800							
350							
197							
102							
6400				9500			
80	95	110	95	95	110	130	110
standard	standard	standard	special ²⁾	standard	standard	standard	special ²⁾
24	20	20	23	23	20	20	24
2391	1895	1413	1895	2434	1815	1300	1815
2388	3367	4514	3367	3899	5227	7300	5227
2173	3064	4108	2460*	3548	4756	6643	3816*
407/475/561	574/670/791	769/898/1060	574/670/791	521/637/744	699/854/998	976/1192/1394	699/854/998
1608	1985	2281	1985	1985	2281	2787	2281
65/7676	104/122/122	151/176/176	93/108/108*	80/98/98	116/141/141	164/200/200	94/115/115*
43/50/50	69/80/80	99/116/116	61/71/71*	54/66/66	78/95/95	110/135/135	64/78/78*
132	176	187	157*	182	223	212	182*
	475			550			
1246	1246	803	803	1400	1400	813	813
860	860	803	803	860	860	813	813
	40			40			
	110			110			
6	6	6	6	6	6	7	7
	110			110			
800/1120-6400				800/1120-9500			
760/1000				1300			
75/90/90				90/110/110			
90				115			
43	43	59	59	59	59	79	79
118/133/133	118/133/133	134/149/149	134/149/149	149/169/169	149/169/169	169/189/189	169/189/189
208/223/223	208/223/223	224/239/239	224/239/239	264/284/284	264/284/284	284/304/304	284/304/304
4,1/3,3/3-714				3,3/3,1/2,8-714			
35000/7800/42800				35000/10900/45900			
10,1x2,7x2,7				11,5x2,7x2,7			
0/1183	0/1183	388/1183	388/1183	0/645	0/645	0/645	0/645
0/1183	0/1183	0/1183	0/1183	0/645	0/645	0/645	0/645
0/1054	0/1054	251/1054	251/1054	0/592	0/592	0/592	0/592

1) Increased mould weights for stack moulds on demand

2) Shear and mixing unit

3) Rate of injection based on the standard plasticising unit

4) standard/increased/twin pump

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

6) Optional

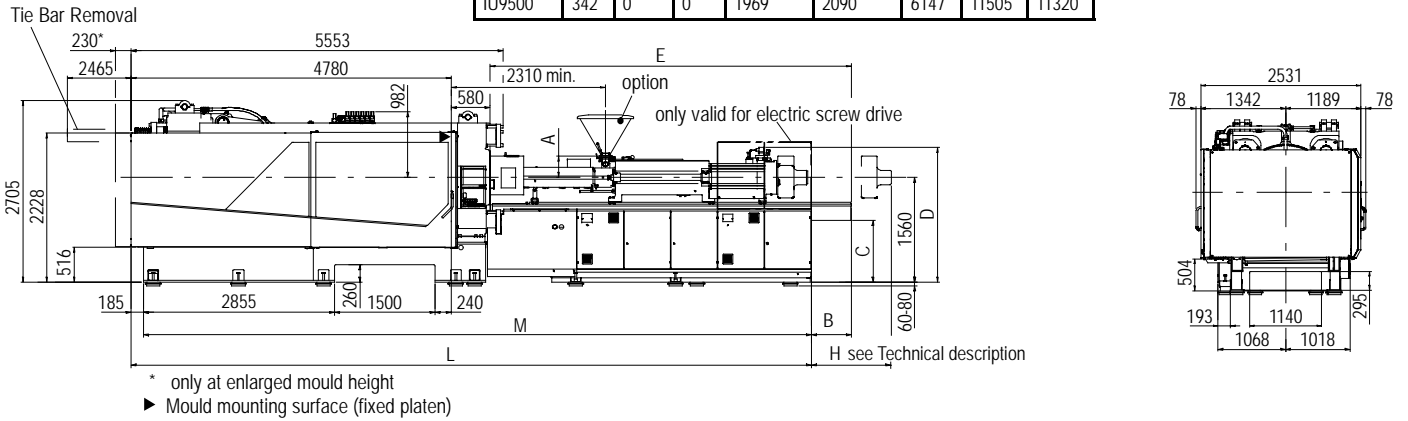
7) Clamping unit/Injection unit/Overall

8) The weight of the machine may vary depending on equipment

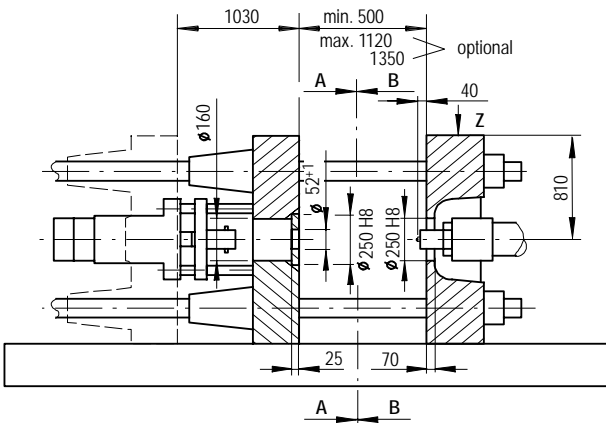
9) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions Systec 800/1120

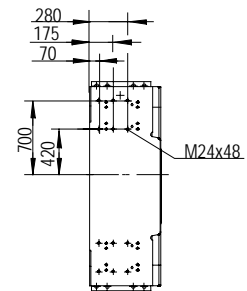
	A	B	C	D WA310	D WA313	E	L	M
IU6400	322	595	916	2011	2090	5392	10155	9970
IU9500	342	0	0	1969	2090	6147	11505	11320



Platen dimensions Systec 800/1120



Z Hole pattern for robot/sprue picker on fixed platen (Euromap 18-E16)

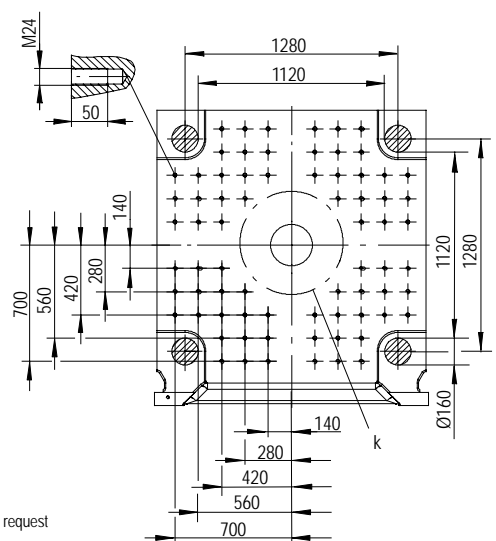
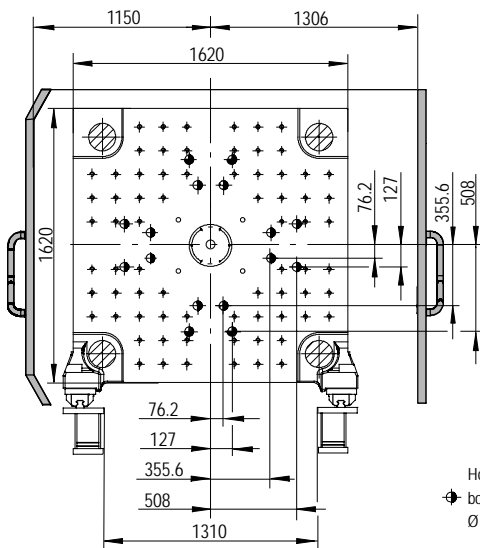


Movable platen

Fixed platen

B - B

A - A



Hole pattern according Euromap
 ◊ bore diameter $\varnothing 52^{+1}$ through holes
 ◊ $\varnothing 52$ Boring through platen with vertical offset of 508 on request

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

Sumitomo (SHI) Demag	
Model description	
International size description	

Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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.	[cm³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection ⁴⁾	
> without accumulator ⁵⁾	[cm³/s]
> with accumulator	[cm³/s]
Plasticising rate (PS, PE*) [g/s]	
> motor 1 (120 bar) ⁵⁾	[g/s]
> motor 2 (120 bar) ⁵⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁶⁾	[mm]
Nozzle stroke in automatic mode ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]

General data	
Oil tank capacity	[ltr.]
Installed electrical rating	
> pump ⁵⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ⁵⁾	[kW]
> capacity with electr. drive ⁵⁾	[kW]
Net weight (without oil) ^{8) 9)}	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ¹⁰⁾	[mm]
Motor end projection 2 (H) ¹⁰⁾	[mm]
Electric drive projection (H) ¹⁰⁾	[mm]

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

Systec 1000/1400			
1000/1400-6400		1000/1400-9500	
1000-6400		1000-9500	

1000/1400			
10000			
11000			
1250			
500/600 ¹⁾			
1200/1500			
2450/2750			
1950x1670			
1400x1120			
950x750			
16000 ²⁾			
10700			
10800			
350			
233			
121			

6400				9500			
80	95	110	95	95	110	130	110
standard	standard	standard	special ³⁾	standard	standard	standard	special ³⁾
24	20	20	23	23	20	20	24
2391	1895	1413	1895	2434	1815	1300	1815
2388	3367	4514	3367	3899	5227	7300	5227
2173	3064	4108	2460*	3548	4756	6643	3816*

407/475/561	574/670/791	769/898/1060	574/670/791	521/637/744	699/854/998	976/1192/1394	699/854/998
1608	1985	2281	1985	1985	2281	2787	2281

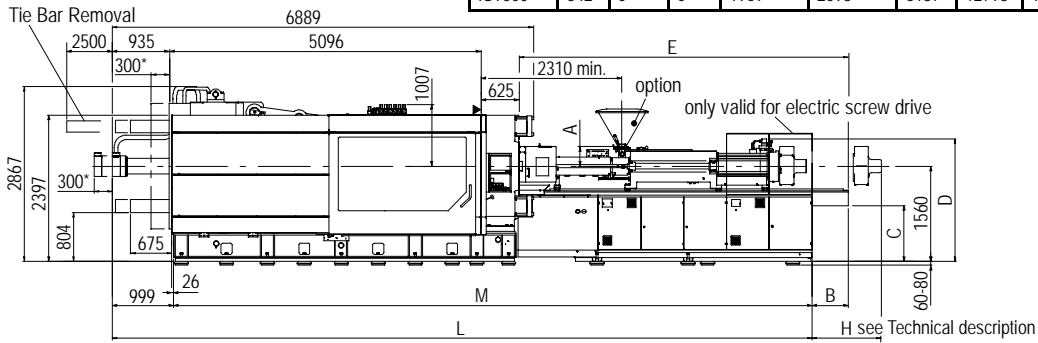
65/76/76	104/122/122	151/176/176	93/108/108*	80/98/98	116/141/141	164/200/200	94/115/115*
43/50/50	69/80/80	99/116/116	61/71/71*	54/66/66	78/95/95	110/135/135	64/78/78*
132	176	187	157*	182	223	212	182*
475				550			
1221	1221	778	778	1455	1455	868	868
905	905	778	778	905	868	868	-
40				40			
110				110			
6	6	6	6	6	6	7	7
110				110			

1000/1400-6400				1000/1400-9500			
760/1000				1300			
75/90/90				90/110/110			
90				115			
43	43	59	59	59	59	79	79
118/133/133	118/133/133	134/149/149	134/149/149	149/169/169	149/169/169	169/189/189	169/189/189
208/223/223	208/223/223	224/239/239	224/239/239	264/284/284	264/284/284	284/304/304	284/304/304
52500/7800/61500				52500/10900/63400			
12,0x3,2x2,9				12,8x3,2x2,9			
0/1131	0/1131	353/1131	353/1131	0/665	0/665	0/665	0/665
0/1204	0/1204	426/1204	426/1204	0/665	0/665	0/665	0/665
0/994	0/994	216/994	216/994	0/612	0/612	0/612	0/612

- 1) only valid for enlarged max. mould height
- 2) Increased mould weights for stack moulds on demand
- 3) Shear and mixing unit
- 4) Rate of injection based on the standard plasticizing unit
- 5) standard/increased/twin pump
- 6) Only valid for open nozzles (SVO). Carriage travel is shortened with shut-off or extended nozzles
- 7) Optional
- 8) Clamping unit/Injection unit/Overall
- 9) The weight of the machine may vary depending on equipment
- 10) At nozzle contact / at max. distance of nozzle retraction

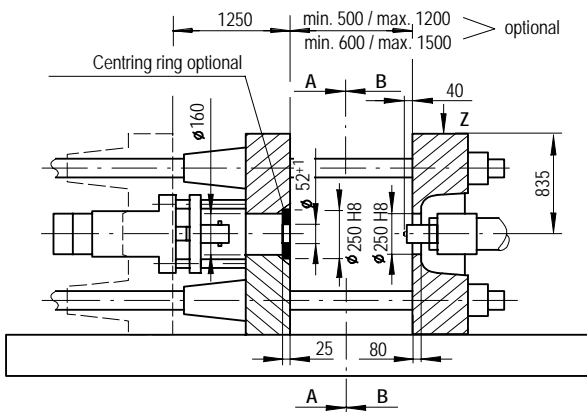
Machine dimensions Systec 1000/1400-6400...1000/1400-9500

	A	B	C	D WA310	D WA313	E	L	M
IU6400	322	595	916	2011	2093	5385	11443	10447
IU9500	342	0	0	1969	2093	6137	12793	11797

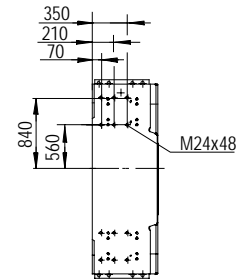


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 1000/1400-6400...1000/1400-9500

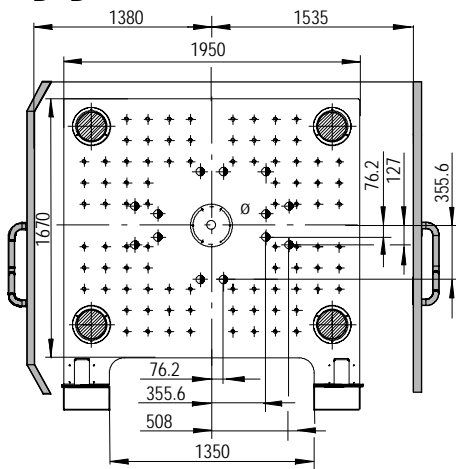


Z Hole pattern for robot/sprue picker on fixed platen (Euomap 18-E17)



Movable platen

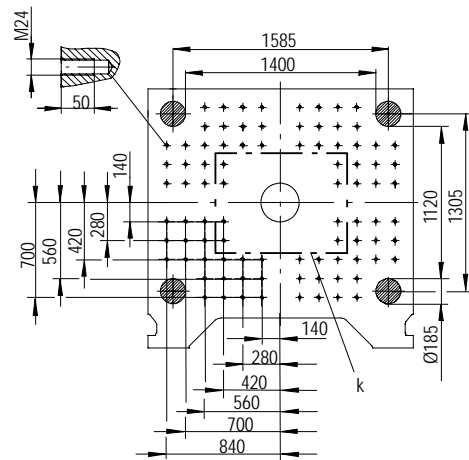
B - B



Hole pattern according Euomap
 ◊ bore diameter $\varnothing 52^{+1}$ through holes

Fixed platen

A - A



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

Sumitomo (SHI) Demag	
Model description	
International size description	

Clamping unit	
Clamping force	[kN]
Locking force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[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	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Max. mould weight on fixed platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
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.	[cm³]
Max. shot weight (PS, PE*)	[g]
Max. rate of injection ⁴⁾	
> without accumulator ⁵⁾	[cm³/s]
> with accumulator	[cm³/s]
Plasticising rate (PS, PE*)	
> motor 1 (120 bar) ⁵⁾	[g/s]
> motor 2 (120 bar) ⁵⁾	[g/s]
> electr. screw drive	[g/s]
Max. screw stroke	[mm]
Max. distance of nozzle retraction ⁶⁾	[mm]
Nozzle stroke in automatic mode ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[litr.]

General data	
Oil tank capacity	[litr.]
Installed electrical rating	
> pump ⁵⁾	[~kW]
> electric screw drive	[~kW]
> heating capacity of screw cylinder	[~kW]
> capacity with hydraulic drive ⁵⁾	[kW]
> capacity with electr. drive ⁵⁾	[kW]
Net weight (without oil) ^{8) 9)}	[~kg]
Machine dimensions (l x w x h)	[~m]
Motor end projection 1 (H) ¹⁰⁾	[mm]
Motor end projection 2 (H) ¹⁰⁾	[mm]
Electric drive projection (H) ¹⁰⁾	[mm]

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

Plasticising rate depends on processing conditions and material employed

Electrical power supply refers to the standard configuration of the machine

Systec 1000/1400			
1000/1400-11500		1000/1400-16000	
1000-11500		1000-16000	

1000/1400			
10000			
11000			
1250			
500/600 ¹⁾			
1200/1500			
2450/2750			
1950x1670			
1400x1120			
950x750			
16000 ²⁾			
10700			
10800			
350			
233			
121			

11500			16000			
110	130	130	130	130	145	145
standard	standard	special ³⁾	standard	special ³⁾	standard	special ³⁾
24	20	25	20	25	20	23
1971	1412	1412	1809	1809	1454	1454
5797	8097	8097	8827	8827	10981	10981
5220	7290	5750*	7940	6270*	9880	7800*
786/1179/1301	1098/1647/1818	1096/1647/1818	856/1284/1418	856/1284/1418	1065/1598/1764	1065/1598/1764
2281	2721	2721	2721	2721	2642	2642

114/170/170	162/241/241	-/-	135/201/201	145/218/218	167/249/249	167/251/251*
95/142/142	135/201/201	145/218/218	104/155/155	112/168/168	129/192/192	129/194/194*
128	181	197	181	197*	224	226
	610			665		
	860			860		
	-			-		
	40			40		
	110			110		
	7			7		
	110			110		

1000/1400-11500			1000/1400-16000			
2000			2000			
110/165/165			110/165/165			
115			147			
79	79	107	79	107	97	107
189/244/244	189/244/244	217/272/189	189/244/244	217/272/272	207/262/262	217/272/272
304/359/359	304/359/359	232/287/287	336/391/391	364/419/419	354/409/409	364/419/419
52500/20000/72500			52500/21000/73500			
13,2x3,2x3			13,2x3,2x3			
0/0	0/0	0/191	0/0	0/308	0/0	0/408
0/0	0/0	0/191	0/0	0/406	0/70	0/506
0/0	0/0	0/257	0/0	0/374	0/38	0/474

1) only valid for enlarged max. mould height

2) Increased mould weights for stack moulds on demand

3) Shear and mixing unit

4) Rate of injection based on the standard plasticizing unit

5) standard/increased/twin pump

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

7) Optional

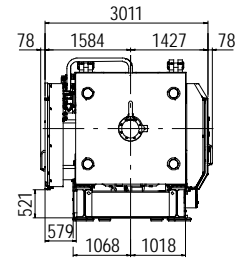
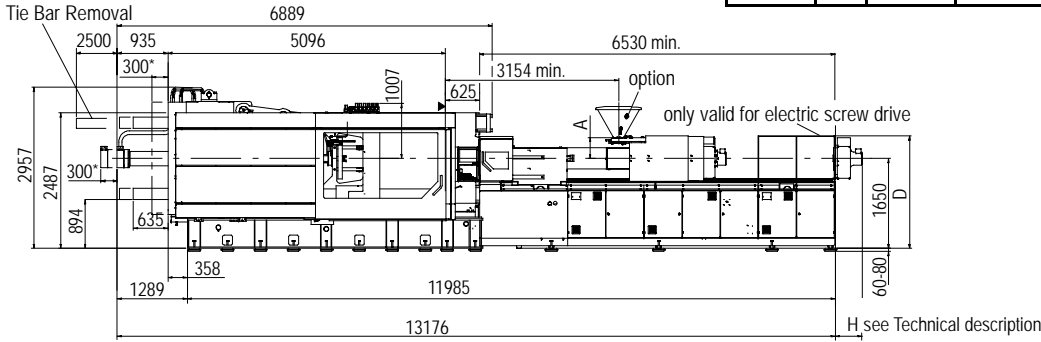
8) Clamping unit/Injection unit/Overall

9) The weight of the machine may vary depending on equipment

10) At nozzle contact / at max. distance of nozzle retraction

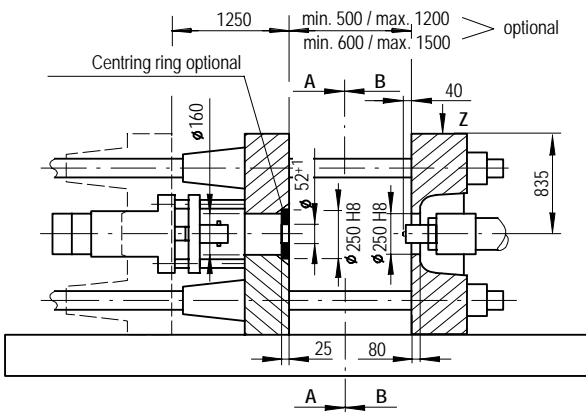
Machine dimensions Systec 1000/1400-11500...1000/1400-16000

	A	D WA310	D WA313
IU11500	373	2068	2093
IU16000	383	2068	2093

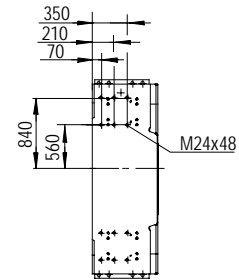


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions Systec 1000/1400-11500...1000/1400-16000

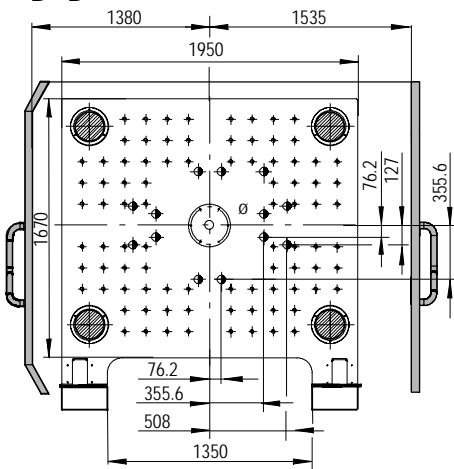


Z Hole pattern for robot/sprue picker on fixed platen (Euromap 18-E17)



Movable platen

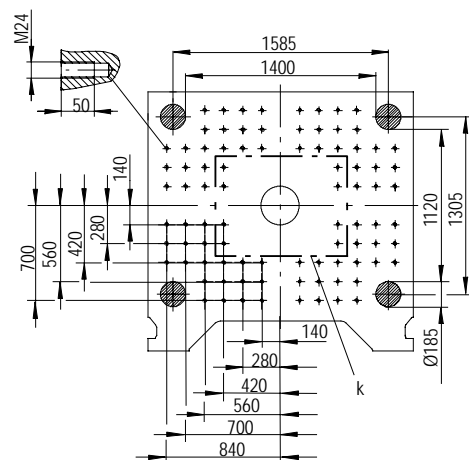
B - B



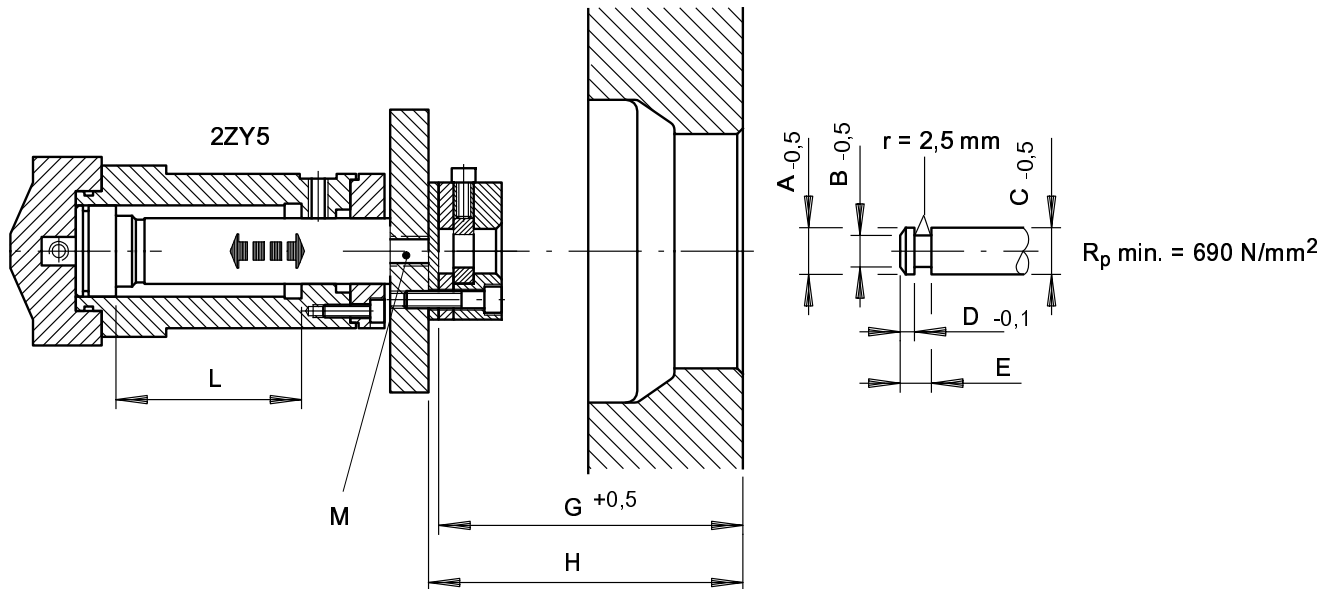
Hole pattern according Euromap
 ◈ bore diameter $\phi 52^{+1}$ through holes

Fixed platen

A - A



Ejector - dimensioned diagram Systec

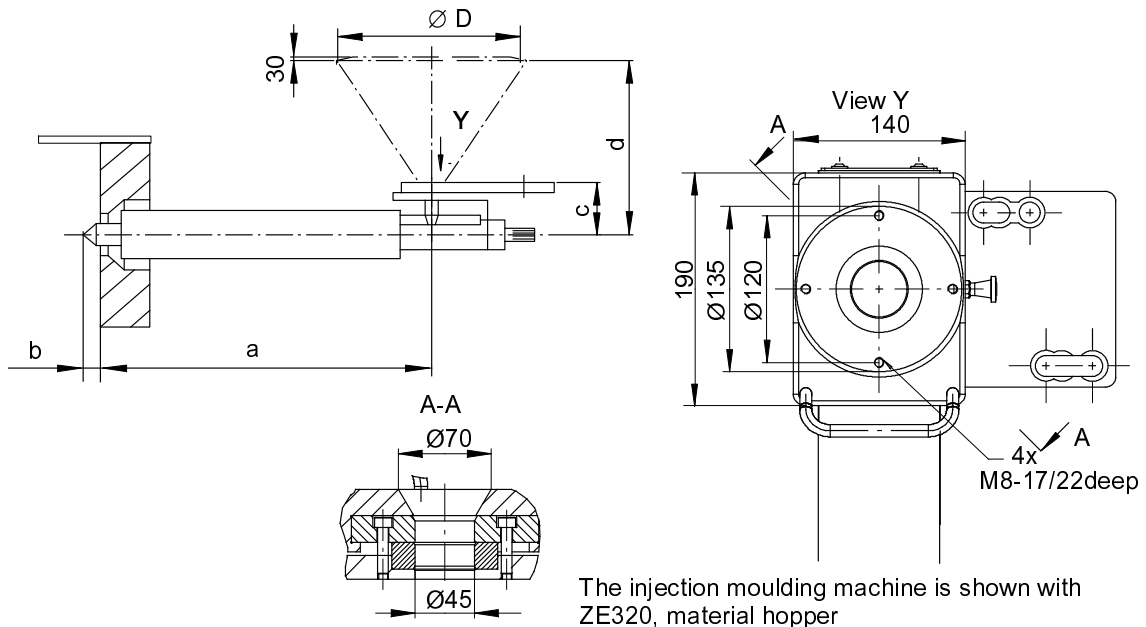


Ejector - connecting dimensions

Maschinentype	Dimensions (mm)								
	A	B	C	D	E	G	H	L	M
Systec 25/320	24.5	14	24.5	7.8	20	162	194	100	-
Systec 35/320	24.5	14	24.5	7.8	20	162	194	100	-
Systec 50/370	24.5	14	24.5	7.8	20	229	250	125	-
Systec 60/420	24.5	14	24.5	7.8	20	289	310	150	-
Systec 80/420	24.5	14	24.5	7.8	20	289	310	150	-
Systec 100/420	24.5	14	24.5	7.8	20	289	310	150	-
Systec 120/470	24.5	14	24.5	7.8	20	327	348	180	-
Systec 130/475	24.5	14	24.5	7.8	20	274	282	140	M16 - 30
Systec 160/520	24.5	14	24.5	7.8	20	302	310	160	M16 - 30
Systec 210/580	44.5	26	44.5	9.5	26	360	370	180	M20 - 35
Systec 280/630	44.5	26	44.5	9.5	26	435	445	200	M20 - 35
Systec 350/720	44.5	26	44.5	9.5	26	485	495	200	M20 - 35
Systec 420/820	44.5	26	44.5	9.0	26	542	552	230	M24 - 50
Systec 500/920	44.5	26	44.5	9.0	26	560.5	570.5	260	M24 - 50
Systec 650/1020	44.5	26	44.5	9.0	26	575.5	585.5	300	M24 - 50
Systec 800/1120	44.5	26	44.5	9.0	26	655.5	665.5	350	M24 - 50
Systec 1000/1400	44.5	26	44.5	9.0	26	680	690	350	M24 - 50
Systec 1300/1500	44.5	26	44.5	9.0	26	725	735	350	M24 - 50
Systec 1500/1500	44.5	26	44.5	9.0	26	725	735	350	M24 - 50
Systec 2000/1800	44.5	26	44.5	9.0	26	990	1000	450	M24 - 50

Coupling zone of ejector rods not hardened

Connection dimensions for material conveyor Systec IU 35...600



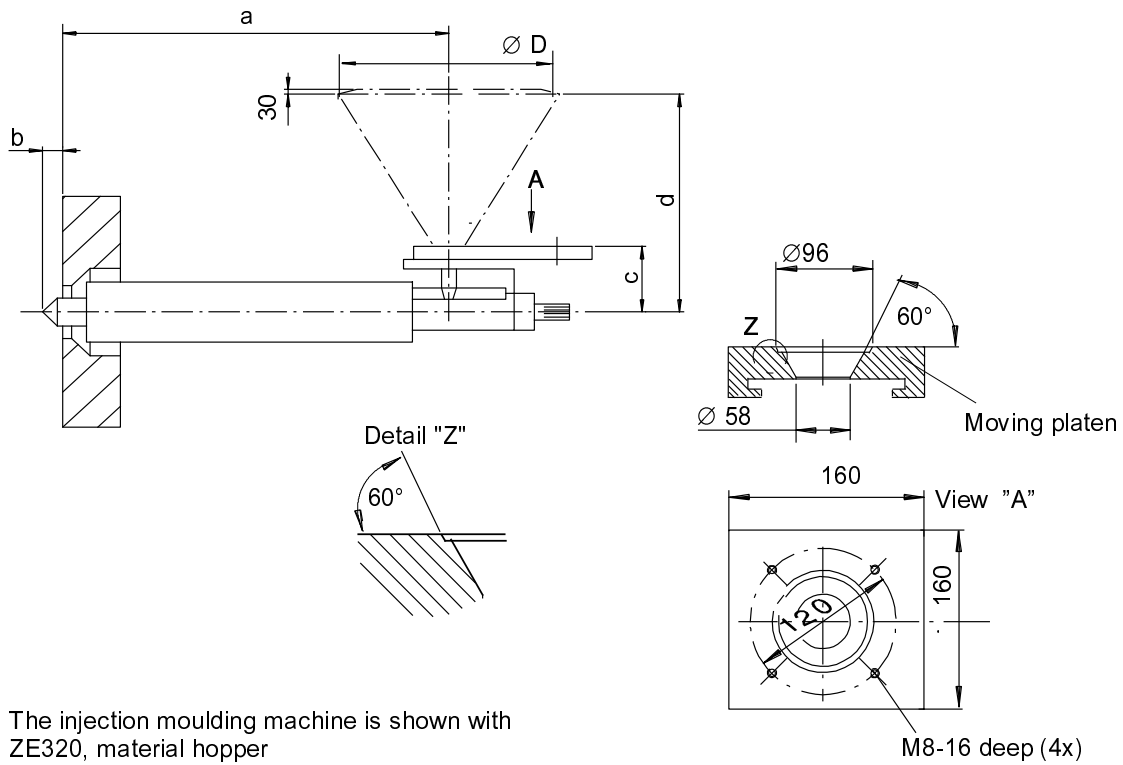
Systec 35 - 120

Injection unit	Screw diameter-[mm]	Dimension a [mm] with SVO		Dimension [mm]		
		a	b	c	d	D
IU 35	14/18/22	361	33	153	671	405
IU 80	18/22/25	493	43	153	671	405
IU 120	22/25/35	566	43	153	671	405
IU 200	25/30/35	628	43	153	671	405
IU 310	30/35/40	752	43	156	674	405
IU 430	35/40/45	858	43	156	674	405
IU 600	40/45/50	962	43	156	794	405

Systec 130 - 350

Injection unit	Screw diameter-[mm]	Dimension a [mm] with SVO		Dimension [mm]		
		a	b	c	d	D
IU 200	25	652	20	228	746	405
	30	775	20			
	35	881	20			
IU 310	30	775	20	156	677	392
	35	881	20			
	40	990	20			
IU 430	35	881	20	156	677	392
	40	990	20			
	45	1118	20			
IU 600	40	990	20	156	827	395
	45	1118	20			
	50	1224	20			

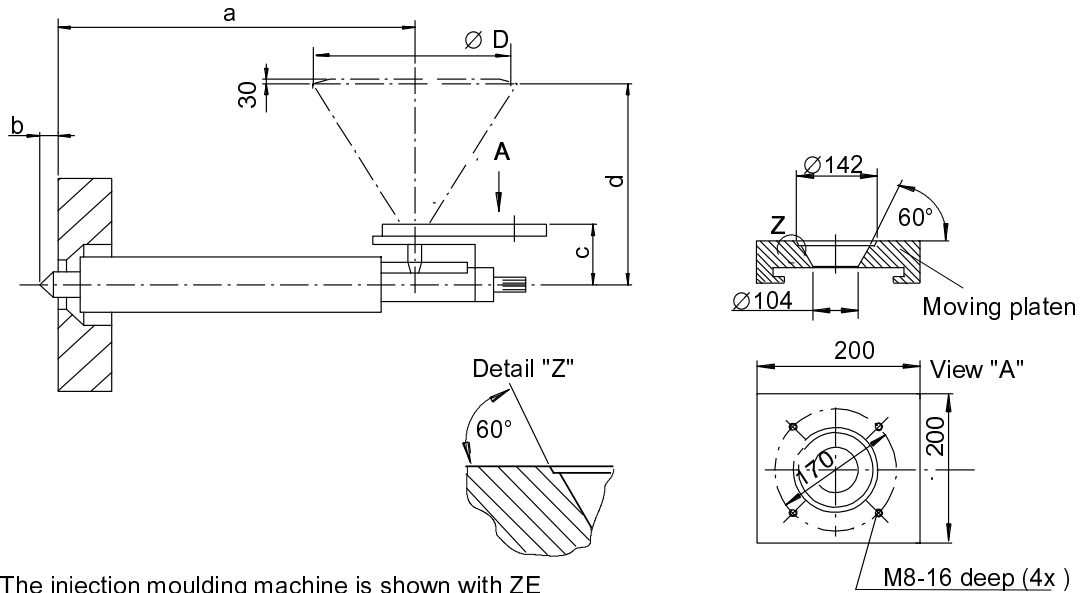
Connection dimensions for material conveyor Systec IU 80...3300



The injection moulding machine is shown with ZE320, material hopper

Injection unit	Screw diameter-[mm]	Dimension a [mm] with SVO			Dimension [mm]		
		Standard barrel	Special barrel	b	c	d	D
		a	a				
IU 840	45	1118	-	20	222	742	723
	50	1244	1489	20			
	60	1475	-	20			
IU 1450	50	1244	-	20	257	877	825
	60	1475	1770	20			
	70	1719	-	20			
IU 2300	60	1475	-	20	287	907	825
	70	1719	2064	20			
	80	1965	-	20			
IU 3300	70	1975	-	45	292	872	825
	80	1975	2307	45			
	95	2307	-	45			

Connection dimensions for material conveyor Systec IU 3300...16000



The injection moulding machine is shown with ZE 320, material hopper

Injection unit	Screw diameter-[mm]	Dimension a [mm] with SVO			Dimension [mm]		
		Standard barrel	Special barrel	b	c	d	D
		a	a				
IU 3300	70	1950	-	45	292	872	825
	80	1950	2307	45			
	95	2307	-	45			
IU 6400	80	2307	-	45	322	902	825
	95	2307	2670	45			
	110	2670	-	45			
IU 9500	95	2670	-	45	342	922	825
	110	2670	3154	45			
	130	3154	-	45			
IU 11500	110	3154	-	45	383	923	825
	130	3154	-	45			
	130	-	3853	45	396	936	
IU 16000	130	3154	-	45	383	923	825
	130	-	3853	45			
	145	3517	-	45			
	145			45			

Equipment Systec 350...4.200 kN

Clamping unit	35...120	130...210	280...420
Compact units with fully hydraulic clamping system with two clamp cylinders and a volume multiplier for fast machine cycles and low energy consumption	●	-	-
Short-length, 5-point double toggle	-	●	●
Moving platen supported by linear guides on machine base	●	●	●
Clamp force adjustable at NC5 control, including indication of actual valve	●	●	●
Clamp force control with indication	●	●	●
Mould mounting dimensions in accordance to Euromap, without side ejector plate	●	●	●
Mould mounting dimensions in accordance to Euromap, with side ejector plate	-	○	○
Mould mounting dimensions similar to SPI	○	○	○
Automatic central oil lubrication for toggle	-	●	●
Upper tiebar on operator side retractable	●	●	●
Upper tiebar on non-operator side retractable	●	●	●
Manual clamping mechanism for tiebar retraction	○	○	○
Automatic tiebar retraction, upper tiebar on non-operator side	-	○	○
Two-stage adjustable clamp force	●	-	-
Extended mould height	○	○	○
Reduced mould height (from 500 kN)	○	-	-
Automatic mould height adjustment	-	○	○
Hydraulic central ejector with multi-stroke and mechanical quick coupling	●	●	●
Short/long stroke ejector	●	●	●
Programmable ejector stroke, power and speed	●	●	●
Ejector pressure and speed programmable for serial operation with mould movement	●	●	●
Ejector pressure and speed programmable for simultaneous operation with mould movement ¹⁾	○	○	○
Ejector power and speed programmable for simultaneous operation with mould movement, including positioning control ¹⁾	○	○	○
Mould and ejector movements only when safety gate closed	●	●	●
Ejector forward when mould open	●	●	●
Position-stabilising non-return valve combination for ejector for spring-loaded tools (not possible for ejector with closed loop position control)	○	○	○
Digital and wearfree stroke measuring system ultrasonic, respectively high-resolution rotary sensors for injection and injection unit movement, clamp and ejector movement	●	●	●
ActiveQ: Active mould safety via sensor with mould movement ¹⁾	○	○	○
Core puller with 1, 2 or 4 circuits and sequence matrix for independent (serial operation) programming of speed control	○	○	○
Core puller with 1, 2 or 4 circuits (from 500 kN) and sequence matrix for independent (parallel operation) programming of speed control	○	○	○
Additional connections for two core-pullers on fixed platen (from 500 kN)	○	○	○
Manual pressure relief for 1, 2 or 4 core pullers	●	●	●
Sequence matrix for free programming of ejectors and core pullers	●	●	●
Sequence matrix for free programming of ejectors and core pullers, simultaneous to mould movement (only with option core puller)	○	○	○
Flexible sequence of the clamp unit with or without multiple movement of the ejector and core pullers ¹⁾	○	○	○

Clamping unit	35...120	130...210	280...420
1 or 2 pneumatik 5/2 directional valves, mounted to moving platen and freely programmable	○	○	○
1 or 2 pneumatik 5/2 directional valves, mounted to fixed platen and freely programmable	○	○	○
Cooling water controller 4 circuits with temperature gauge	●	●	●
4 additional cooling water volume controllers	○	○	○
Time-programmable switch-off mould cooling	●	●	●
Blow-through for mould cooling lines	○	○	○
Automatic safety gate on operator side	○	○	○

Injection unit	35...120	130...210	280...420
Flexible movement of the injection unit ²⁾	○	○	○
Barrel adaptable for 3 injection units	●	●	●
Cylinder for PVC rigid with 20:1 L/D ratio with ventilator (optional)	○	○	○
Screw and cylinder for thermoset application	○	○	○
Wear and corrosion resistant universal thermoplastic screw, nitrided barrel	○	○	○
Special screws for processing various materials, with screws and non-return valves in wear and corrosion resistant or heavy duty design (powder material)	○	○	○
Barrel with bi-metal lining	○	○	○
Open nozzle with M24x1,5 connection thread, from 18 mm screw diameter onwards incl. adapter	○	○	○
Extended open nozzle	○	○	○
Pneumatic shut off nozzle incl. control (up to IU 600)	○	○	○
Hydraulic shut off nozzle incl. control (from IU 840)	-	○	○
Needle shut off nozzle	○	○	○
Melt temperature measuring (only for open nozzles)	○	○	○
Controlled barrel heating zones (ceramic heaters), number dependent on injection unit, and one controlled nozzle heating zone	●	●	●
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 (with bi-metal lining barrel)	●	●	●
Hot runner control (number of zones depending on machine size)	○	○	○
Hydraulic control for hot runner nozzles	○	○	○
Pneumatic hot runner shut off control	○	○	○
Hydraulic screw motor for high screw speeds (rpm)	●	●	●
Hydraulic screw motor for high torque	○	○	○
Frequency controlled electric screw drive with AC servo motor (from UI 310 and CU 130)	○	○	○
Stainless steel feed hopper for automatic filling	○	○	○
Hopper shutoff with emptying capability (with drill pattern for material conveyer)	●	●	●
Closed-loop control for throat temperature (max. temperature 90°C with 3°C tolerance)	●	●	●
Barrel quick change with central plugs for heaters and thermocouple, and automatic barrel recognition	●	●	●
Programmable profiles for closed-loop control of injection speed, holding pressure, back pressure and screw speed parameters	●	●	●
Injection with DFE pump and closed-loop control of pressures and speed	●	●	●
Injection, holding pressure and back-pressure regulated by servovalve; regulated screw speed	○	○	○
Switch-over to follow-up pressure by hydraulic pressure, with acquisition of maximum value and pressure recording	○	○	○

● Basic equipment

○ Additional price

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

1) Component of Smart and Performance build level

2) Component of Performance build level

Injection unit	35...120	130...210	280...420
Switch-over to holding pressure by cavity pressure, with pressure recording for 1 or 2 pressure transducers	○	○	○
Programmable nozzle contact pressure	●	●	●
Residual nozzle sealing force programmable	○	○	○
Nozzle movement at same time as closing via prop. valve ¹⁾	○	○	○
Two-stage injection unit movement	●	●	●
WC5 - DPG World Connect; Remote maintenance and control of the machine	●	●	●
Energy-saving thermal insulation of the plasticizing	○	○	○

Electronics	35...120	130...210	280...420
Operator-friendly NC5 microprocessor-based operating touch screen panel with large LCD colour monitor, alphanumeric keyboard, and 2 USB data links	●	●	●
Setpoint entry switch-over to physical values (bar, cm ³ , mm/s)	●	●	●
Fault log with trouble shooting hints	●	●	●
Quality control with reject parts recognition	●	●	●
Universal printer port	●	●	●
Printer program for external printer for automatic printout of error log, alarms, messages and changes	○	○	○
Integrated printer including driver software	○	○	○
USB-Stick for controlled access	●	●	●
Second operating language for NC5-Control	●	●	●

Hydraulics	35...120	130...210	280...420
Pump unit with increased drive capacity ³⁾	○	○	○
Twin pump for parallel movements on clamp side ²⁾	○	○	○
Oil cooling unit with increased cooling capacity	○	○	○
Closed-loop control of oil temperature depending on temperature reading	●	●	●
Separate circuits for oil and mould cooling	●	●	●
Pre-heating circuit for hydraulic oil	●	●	●
Automatic two stage control and display of oil filter contamination	●	●	●
Ports for external oil cleaning during production (bypass filtration)	●	●	●
Integrated oil cleaning unit for microfibre bypass filtration	●	●	●

Functions	35...120	130...210	280...420
Process data acquisition with 100 % monitoring and statistics with graphics for of process parameters	●	●	●
Integrated Statistical Process Control (SPC) with display of process control charts	○	○	○
Memo program for external saving of statistics	●	●	●
Change log	●	●	●
Operator support by integrated help function	●	●	●
Additional operating language	○	○	○
Three-stage start-up program	○	○	○
On/off programme with one purging cycle	○	○	○
3 or 6 freely programmable inputs/outputs (Terminal point outside control cabinet)	○	○	○
Dry cycle without heat via program switch	●	●	●
Report of actions	○	○	○
Maintenance indication	●	●	●

Functions	35...120	130...210	280...420
Cycle time analysis	○	○	○
Low temperature activated manually via program switch with timer	●	●	●
Counter for start-up scrap (after every interruption of the automatic cycle)	●	●	●

Automation	35...120	130...210	280...420
Quality reject feature in part removal with Small part separation unit, control for 2 directions	○	○	○
Connection of the mould cooling up to the clamping plates	○	○	○
Interface and control for gas injection process, 1 to 4 circuits integrated	○	○	○

Interfaces	35...120	130...210	280...420
Display colored, as well as interface for external monitor and keyboard	○	○	○
Interface for mould protection (ejector plate safety)	●	●	●
Interfaces for ejector limit switch in mould, side action with LS and product detection	○	○	○
Mould temperature display with monitoring for 2 circuits	○	○	○
Contact for colour-dosing unit with socket	○	○	○
CAN-Bus interface for temperature controllers (4 circuits), signal specified according Demag	○	○	○
20 mA interface (TT-V24) for up to 6 units integrated temperature controllers	○	○	○
Additional 2 point temperature control for nozzle, 1 circuit	○	○	○
Socket for second nozzle heater band	○	○	○
Drilles for handling device to VDMA 24466	●	●	●
50-pin handling device interface conf. to Euromap 67 (VDMA)	○	○	○
Data interface for three signals: drycycling, automatic, and semi-automatic operation	○	○	○
Data interface for main computer systems to Euromap 63 and SPI AN-142	○	○	○

General	35...120	130...210	280...420
Joint power supply for drive and heating	●	●	●
Separate power supply for both drive and heating	○	○	○
Single-phase 230 V/50 Hz/ 10 A socket in specific national version	●	●	●
Set of sockets in separate cabinet on non-operator side, with lockout through mains switch and switch-off matrix, 2x 16A three-phase IEC/EE and 2x 10A AC shockproof plugs in specific national versions	○	○	○
Supply voltage 400 V+10 %/ 50 Hz; 3 Ph + N + PE	○	○	○
Specific national supply voltage	○	○	○
Full guarding on injection unit operator side	○	-	-
Basic equipment to European safety standard (EN 201)	●	●	●
Basic equipment in compliance with national safety standards	○	○	○
Fault indication by flashing lamp	●	●	●
Fault indication by acoustic alarm	○	○	○
Freely assignable output for fault indication	●	●	●
Anti-vibration mounts	●	●	●
Two-colour paint trim: machine dark grey RAL 7016; cladding alternative light blue 571C MD or light grey RAL 7035 or reseda green RAL 6011	○	○	○

● Basic equipment

○ Additional price

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

1) Component of Smart and Performance build level

2) Component of Performance build level

3) Component of Smart build level

Equipment Systec 5.000...8.000 kN

General	
Compact units with fully hydraulic clamping system with two clamp cylinders and a volume multiplier for fast machine cycles and low energy consumption	-
Short-length, 5-point double toggle	●
Moving platen supported by linear guides on machine base	●
Clamp force adjustable at NC5 control, including indication of actual valve	●
Clamp force control with indication	●
Mould mounting dimensions in accordance to Euromap, without side ejector plate	●
Mould mounting dimensions in accordance to Euromap, with side ejector plate	○
Mould mounting dimensions similar to SPI	○
Automatic central oil lubrication for toggle	●
Upper tiebar on operator side retractable	●
Upper tiebar on non-operator side retractable	●
Manual clamping mechanism for tiebar retraction	○
Automatic tiebar retraction, upper tiebar on non-operator side	○
Two-stage adjustable clamp force	-
Extended mould height	○
Reduced mould height (from 500 kN)	-
Automatic mould height adjustment	○
Hydraulic central ejector with multi-stroke and mechanical quick coupling	●
Short/long stroke ejector	●
Programmable ejector stroke, power and speed	●
Ejector pressure and speed programmable for serial operation with mould movement	●
Ejector power and speed programmable for simultaneous operation with mould movement, including positioning control	●
Mould and ejector movements only when safety gate closed	●
Ejector forward when mould open	●
Position-stabilising non-return valve combination for ejector for spring-loaded tools (not possible for ejector with closed loop position control)	-
Digital and wearfree stroke measuring system ultrasonic, respectively high-resolution rotary sensors for injection and injection unit movement, clamp and ejector movement	●
ActiveQ: Active mould safety via sensor with mould movement ¹⁾	○
Core puller with 1, 2, 4 or 6 circuits and sequence matrix for independent (serial operation) programming of speed control	○
Core puller with 1, 2, 4 or 6 circuits and sequence matrix for independent (parallel operation) programming of speed control	○
Additional connections for two core-pullers on fixed platen (from 500 kN)	○
Manual pressure relief for 1, 2, 4 or 6 core pullers	●
Sequence matrix for free programming of ejectors and core pullers, simultaneous to mould movement (only with option core puller)	●
Flexible sequence of the clamp unit with or without multiple movement of the ejector and core pullers ¹⁾	●
1 or 2 pneumatik 5/2 directional valves, mounted to moving platen and freely programmable	○
1 or 2 pneumatik 5/2 directional valves, mounted to fixed platen and freely programmable	○
Cooling water controller 4 circuits with temperature gauge	●
4 additional cooling water volume controllers	○
Time-programmable switch-off mould cooling	●
Blow-through for mould cooling lines	○
Automatic safety gate on operator side	○

Injection unit	500...8.000
Flexible movement of the injection unit ²⁾	○

Injection unit	500...8.000
Barrel adaptable for 3 injection units	●
Cylinder for PVC rigid with 20:1 L/D ratio with ventilator (optional)	○
Screw and cylinder for thermoset application (up to IU 2300)	○
Special screws for processing various materials, with screws and non-return valves in wear and corrosion resistant or heavy duty design (powder material)	○
Barrel with bi-metal lining (option up to IU 2300)	●
Open nozzle with M60x3 connection thread for screws from 30 mm	●
Extended open nozzle	○
Pneumatic shut off nozzle incl. control (up to IU 600)	-
Hydraulic shut off nozzle incl. control (from IU 840)	○
Needle shut off nozzle (up to IU 2300)	○
Melt temperature measuring (only for open nozzles)	○
Controlled barrel heating zones (ceramic heaters), number dependent on injection unit, and one controlled nozzle heating zone	●
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 (with bi-metal lining barrel)	●
Hydraulic control for hot runner nozzles	○
Pneumatic hot runner shut off control	○
Hydraulic screw motor for high screw speeds (rpm)	●
Hydraulic screw motor for high torque	○
Frequency controlled electric screw drive with AC servo motor (from UI 310 and CU 130)	○
Stainless steel feed hopper for automatic filling	○
Hopper shutoff with emptying capability (with drill pattern for material conveyor)	●
Closed-loop control for throat temperature (max. temperature 90°C with 3°C tolerance)	●
Barrel quick change with central plugs for heaters and thermocouple, and automatic barrel recognition	●
Programmable profiles for closed-loop control of injection speed, holding pressure, back pressure and screw speed parameters	●
Injection with DFE pump and closed-loop control of pressures and speed	●
Injection, holding pressure and back-pressure regulated by servovalve; regulated screw speed	○
Switch-over to follow-up pressure by hydraulic pressure, with acquisition of maximum value and pressure recording	○
Switch-over to holding pressure by cavity pressure, with pressure recording for 1, 2 or 4 pressure transducers (from 1.300 kN)	○
Programmable nozzle contact pressure	●
Residual nozzle sealing force programmable	○
Nozzle movement at same time as closing via prop. valve ¹⁾	○
Two-stage injection unit movement	●

Hydraulics	500...8.000
Pump unit with increased drive capacity ³⁾	○
Twin pump for parallel movements on clamp side ²⁾	○
Oil cooling unit with increased cooling capacity	○
Closed-loop control of oil temperature depending on temperature reading	●
Separate circuits for oil and mould cooling	●
Pre-heating circuit for hydraulic oil	●
Automatic two stage control and display of oil filter contamination	●
Ports for external oil cleaning during production (bypass filtration)	●
Integrated oil cleaning unit for microfibre bypass filtration	●

Electronics	500...8.000
Operator-friendly NC5 microprocessor-based operating touch screen panel with large LCD colour monitor, alphanumeric keyboard, and 2 USB data links	●

● Basic equipment

○ Additional price

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1) Component of Smart and Performance build level

2) Component of Performance build level

3) Component of Smart build level

Electronics		500...8.000
Setpoint entry switch-over to physical values (bar, cm ³ , mm/s)	●	
Fault log with trouble shooting hints	●	
Quality control with reject parts recognition	●	
Universal printer port	●	
Printer program for external printer for automatic printout of error log, alarms, messages and changes	○	
Integrated printer including driver software	○	
USB-Stick for controlled access	●	
Second operating language for NC5-Control	●	

Functions		500...8.000
Process data acquisition with 100 % monitoring and statistics with graphics for of process parameters	●	
Integrated Statistical Process Control (SPC) with display of process control charts	○	
Memo program for external saving of statistics	●	
Change log	●	
Operator support by integrated help function	●	
Additional operating language	○	
Three-stage start-up program	○	
On/off programme with one purging cycle	○	
3 or 6 freely programmable inputs/outputs (Terminal point outside control cabinet)	○	
Low temperature activated manually via program switch with timer	●	
Dry cycle without heat via program switch	●	
Counter for start-up scrap (after every interruption of the automatic cycle)	●	
Report of actions	●	
Maintenance indication	●	

Automation		500...8.000
Interface and control for gas injection process, 1 to 4 circuits integrated	○	

Interfaces		500...8.000
Display colored, as well as interface for external monitor and keyboard	●	
Interface for mould protection (ejector plate safety)	●	
Interfaces for ejector limit switch in mould, side action with LS and product detection	○	
Mould temperature display with monitoring for 2 circuits	○	
Contact for colour-dosing unit with socket	○	
CAN-Bus interface for temperature controllers (4 circuits), signal specified according Demag	○	
20 mA interface (TT-V24) for up to 6 units integrated temperature controllers	○	
Additional 2 point temperature control for nozzle, 1 circuit	○	
Socket for second nozzle heater band	○	
Drilles for handling device to VDMA 24466	●	
50-pin handling device interface conf. to Euromap 67 (VDMA)	○	
Data interface for three signals: drycycling, automatic, and semi-automatic operation	○	
Data interface for main computer systems to Euromap 63 and SPI AN-142	○	

General		500...8.000
Joint power supply for drive and heating	●	
Separate power supply for both drive and heating (from 90 kW)	●	
Single-phase 230 V/50 Hz/ 10 A socket in specific national version	●	
Set of sockets in separate cabinet on non-operator side, with lockout through mains switch and switch-off matrix, 2x 16A three-phase IECCE and 2x 10A AC shockproof plugs in specific national versions	○	

General		500...8.000
Supply voltage 400 V+-10 %/ 50 Hz; 3 Ph + N + PE	○	
Specific national supply voltage	○	
Basic equipment to European safety standard (EN 201)	●	
Basic equipment in compliance with national safety standards	○	
Fault indication by flashing lamp	●	
Fault indication by acoustic alarm	○	
Freely assignable output for fault indication	●	
Anti-vibration mounts	●	
Two-colour paint trim: machine dark grey RAL 7016; cladding alternative light blue 571C MD or light grey RAL 7035 or reseda green RAL 6011	●	

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 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 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

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