

The precision machine



Technical Description

IntElect

Technical Data IntElect 50/370 Smart

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Spec. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed ³⁾	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 50/370 Smart										
IntElect 50/370-45		IntElect 50/370-80			IntElect 50/370-110			IntElect 50/370-180		
500-45		500-80			500-110			500-180		
50/370										
		500								
		550								
		300								
		200								
		410 ^{1)/510}								
		710 ^{1)/810}								
		520x570								
		370x370								
		200								
		780								
		500								
		90								
		25								
		direct drive								
		belt drive								
45		80			110			180		
14	18	18	22	25	22	25	30	25	30	35
20	20	20	20	20	20	20	20	20	20	20
2800	2150	2800	2150	1670	2800	2180	1515	2800	2180	1600
14	23	23	34	44	40	52	74	59	85	115
12	20	20	30	39	36	46	66	52	75	103
200 (standard)		200 (standard)			200 (standard)			200 (standard)		
300		300			300			300		
31	51	51	76	98	76	98	141	98	141	192
46	76	76	114	147	114	147	212	147	212	288
1	3,67	3,67	6	10	6	10	14	10	14	22,7
4	4,2	4,2	5,2	5,7	5,2	5,7	8,3	5,7	8,3	9,4
90		90			105			120		
350		350			350			350		
20		20			20			20		
30		30			30			30		
4		4			4			4		
35		35			35			35		
		direct drive								
		direct drive								
50/370-45		50/370-80			50/370-110			50/370-180		
1,3-259		1,3-259			1,3-259			1,3-259		
4500		4500			4500			4500		
4,32x1,27x1,84		4,32x1,27x1,84			4,32x1,27x1,84			4,32x1,27x1,84		
0/0	0/95	0/95	0/166	0/228	0/166	0/228	0/351	142/522	265/645	409/789

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) High speed max. injection speed on request

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

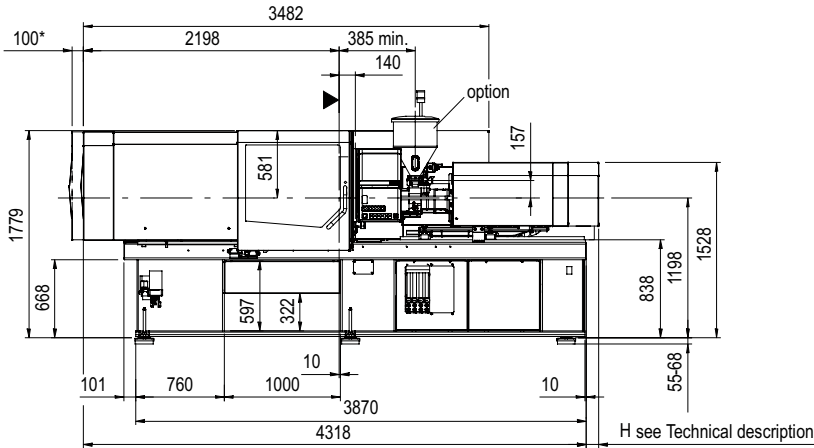
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

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

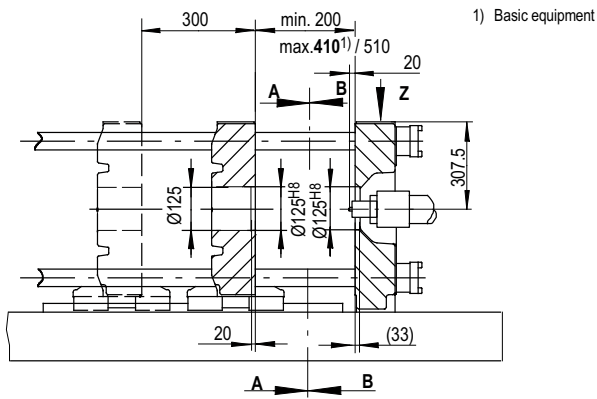
9) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions IntElect 50/370 Smart

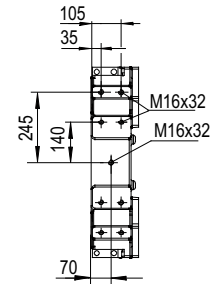


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

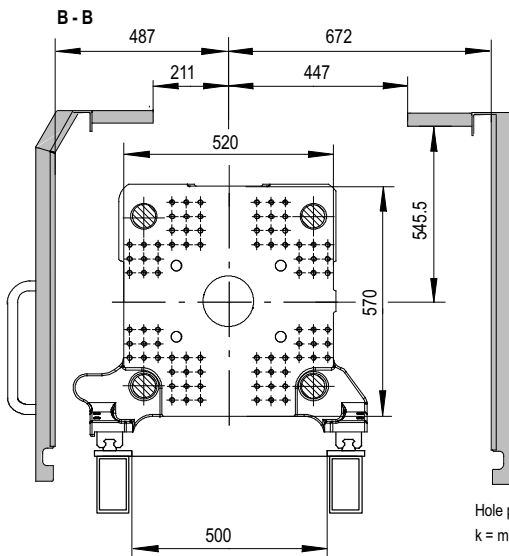
Platen dimensions IntElect 50/370 Smart



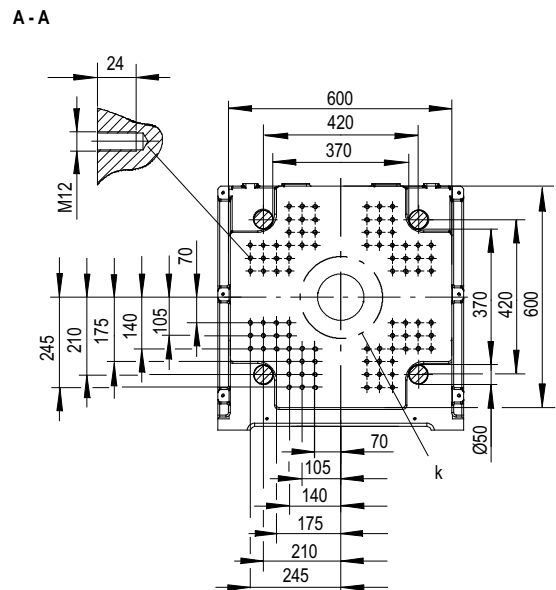
Z Hole pattern for robot/sprue picker on fixed platen



Movable platen



Fixed platen



Technical Data IntElect 50/420 Smart Wide Platen

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]
Mould height max./enlarged	[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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed ³⁾	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 50/420 Smart Wide Platen										
IntElect 50/420-45		IntElect 50/420-80			IntElect 50/420-110			IntElect 50/420-180		
500-45		500-80			500-110			500-180		
50/420										
		500								
		550								
		300								
		200								
		410 ^{1)/5} 10								
		710 ^{1)/8} 10								
		570x570								
		420x370								
		200								
		780								
		500								
		90								
		25								
		direct drive								
		belt drive								
45		80			110			180		
14	18	18	22	25	22	25	30	25	30	35
20	20	20	20	20	20	20	20	20	20	20
2800	2150	2800	2150	1670	2800	2180	1515	2800	2180	1600
14	23	23	34	44	40	52	74	59	85	115
12	20	20	30	39	36	46	66	52	75	103
200 (standard)		200 (standard)			200 (standard)			200 (standard)		
-		-			-			-		
-		-			-			-		
46	76	76	114	147	114	147	212	147	212	288
1	3,67	3,67	6	10	6	10	14	10	14	22,7
4	4,2	4,2	5,2	5,7	5,2	5,7	8,3	5,7	8,3	9,4
90		90			105			120		
350		350			350			350		
20		20			20			20		
30		30			30			30		
4		4			4			4		
35		35			35			35		
		direct drive								
		direct drive								
50/420-45		50/420-80			50/420-110			50/420-180		
1,4-294		1,4-294			1,4-294			1,4-294		
4500		4500			4500			4500		
4,32x1,27x1,84		4,32x1,27x1,84			4,32x1,27x1,84			4,32x1,27x1,84		
0/0	0/95	0/95	0/166	0/228	0/166	0/288	0/351	142/522	265/645	409/789

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These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) High speed max. injection speed on request

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

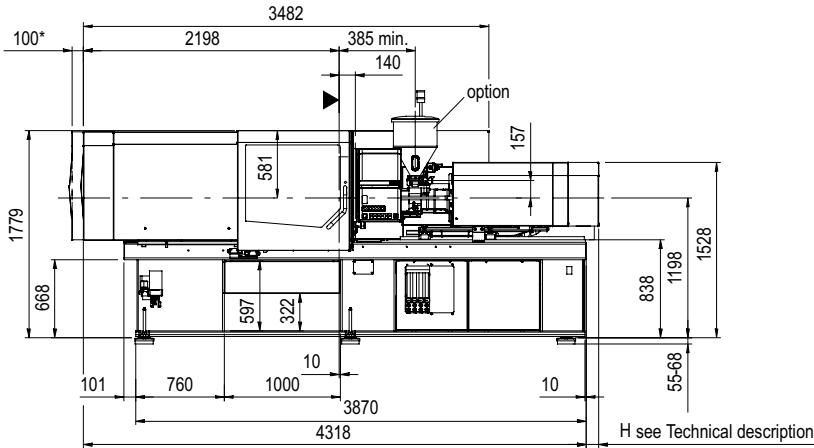
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

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

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

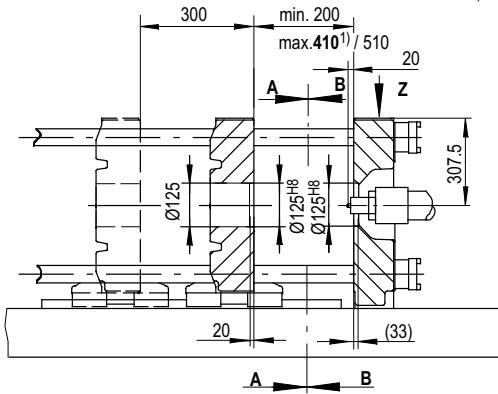
Machine dimensions IntElect 50/420 Smart Wide Platen



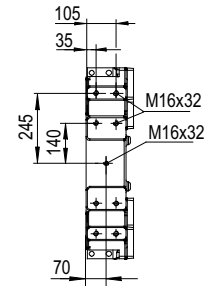
- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions IntElect 50/420 Smart Wide Platen

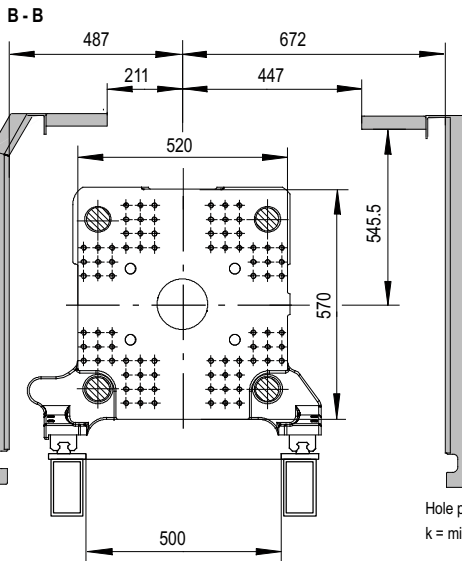
1) Basic equipment



Z Hole pattern for robot/sprue picker on fixed platen

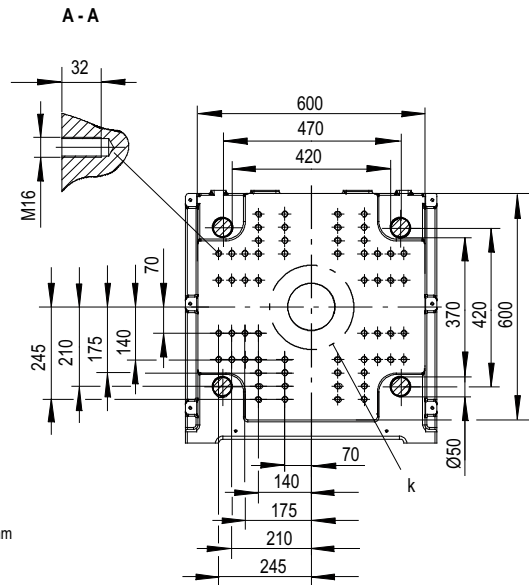


Movable platen



Hole pattern according Euromap
k = minimum permissible mould-Ø 200 mm

Fixed platen



Technical Data IntElect 100/470 Smart

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]
Mould height max./enlarged	[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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed ³⁾	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 100/470 Smart												
IntElect 100/470-110			IntElect 100/470-180			IntElect 100/470-340			IntElect 100/470-500			
1000-110			1000-180			1000-340			1000-500			
100/470												
			1000									
			1100									
			380									
			200									
			430 ^{1)/530}									
			810 ^{1)/910}									
			620x620									
			470x420									
			215									
			780									
			500									
			110									
			35									
			direct drive									
			belt drive									
110			180			340			500			
22	25	30	25	30	35	30	35	40	35	40	45	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1515	2800	2180	1600	2800	2180	1670	2800	2150	1690	
40	52	74	59	85	115	114	156	203	178	232	294	
36	46	66	52	75	103	102	139	181	158	207	262	
200 (standard)			200 (standard)			200 (standard)			200 (standard)			
300			300			300			300			
76	98	141	98	141	192	141	192	251	192	251	318	
114	147	212	147	212	288	212	288	377	288	377	477	
6	10	14	10	14	22,7	14	22,7	31,4	22,7	31,3	42	
5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
105			120			162			185			
350			350			350			350			
20			20			20			20			
30			30			30			30			
4			4			4			4			
35			35			35			35			
			direct drive									
			direct drive									
100/470-110			100/470-180			100/470-340			100/470-500			
1,4-329			1,4-329			1,4-329			1,4-329			
5100			5200			5400			5500			
4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,39x1,99			
0/0	0/28	0/151	0/322	65/445	209/589	65/445	209/589	332/712	484/864	607/987	743/1123	

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

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These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) High speed max. injection speed on request

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

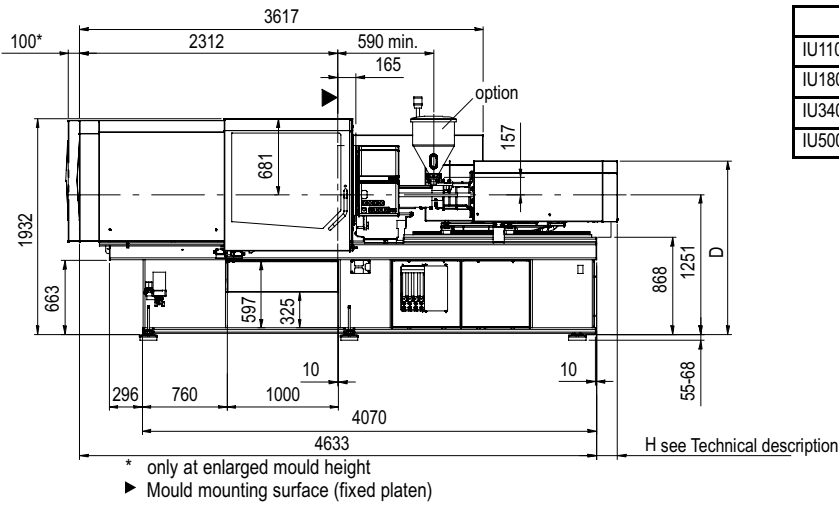
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

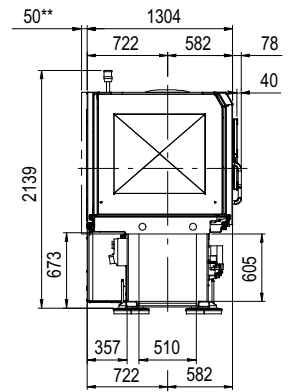
8) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 100/470 Smart

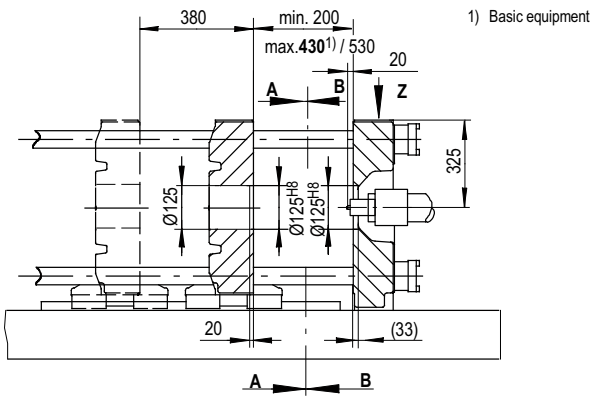


	D
IU110	1581
IU180	1581
IU340	1581
IU500	1601

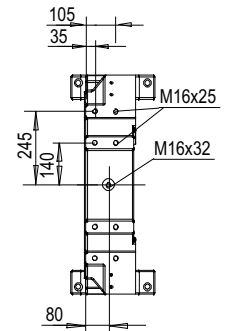


** valid for injection unit 500

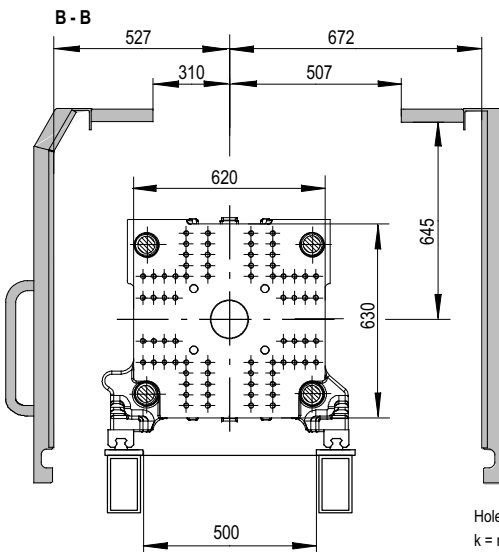
Platen dimensions IntElect 100/470 Smart



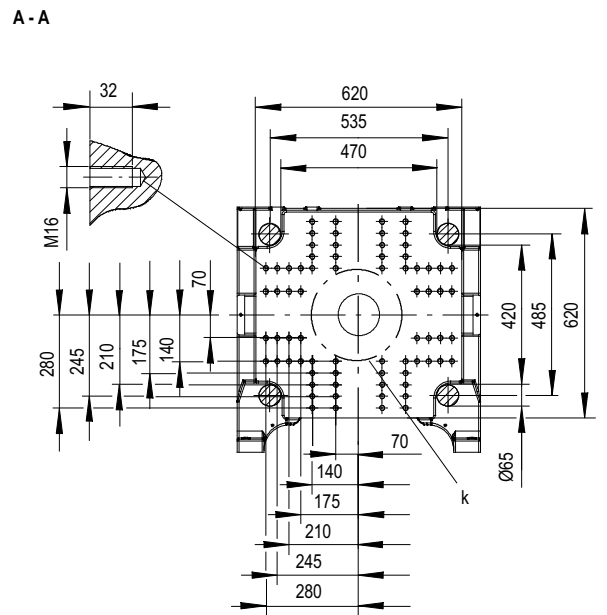
Z Hole pattern for robot/sprue picker on fixed platen



Movable platen



Fixed platen



Hole pattern according Euromap
 k = minimum permissible mould-Ø 215 mm

Technical Data IntElect 100/520 Smart Wide Platen

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]
Mould height max./enlarged	[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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed ³⁾	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 100/520 Smart Wide Platen												
IntElect 100/520-110			IntElect 100/520-180			IntElect 100/520-340			IntElect 100/520-500			
1000-110			1000-180			1000-340			1000-500			
100/520												
			1000									
			1100									
			380									
			200									
			430 ^{1)/} 530									
			810 ^{1)/} 910									
			690x620									
			520x470									
			215									
			780									
			500									
			110									
			350									
			direct drive									
			belt drive									
110			180			340			500			
22	25	30	25	30	35	30	35	40	35	40	45	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1515	2800	2180	1600	2800	2180	1670	2800	2150	1690	
40	52	74	59	85	115	114	156	203	178	232	294	
36	46	66	52	75	103	102	139	181	158	207	262	
200 (standard)			200 (standard)			200 (standard)			200 (standard)			
300			300			300			300			
76	98	141	98	141	192	141	192	251	192	251	318	
114	147	212	147	212	288	212	288	377	288	377	477	
6	10	14	10	14	22,7	14	22,7	31,4	22,7	31,3	42	
5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
105			120			162			185			
350			350			350			350			
20			20			20			20			
30			30			30			30			
4			4			4			4			
35			35			35			35			
			direct drive									
			direct drive									
100/520-110			100/520-180			100/520-340			100/520-500			
1,5-364			1,5-364			1,5-364			1,5-364			
5100			5200			5400			5500			
4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			
0/0	0/28	0/151	0/322	65/445	209/589	65/445	209/589	332/712	484/864	607/987	743/1123	

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1) Basic equipment

2) For long holding pressure time

3) High speed max. injection speed on request

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

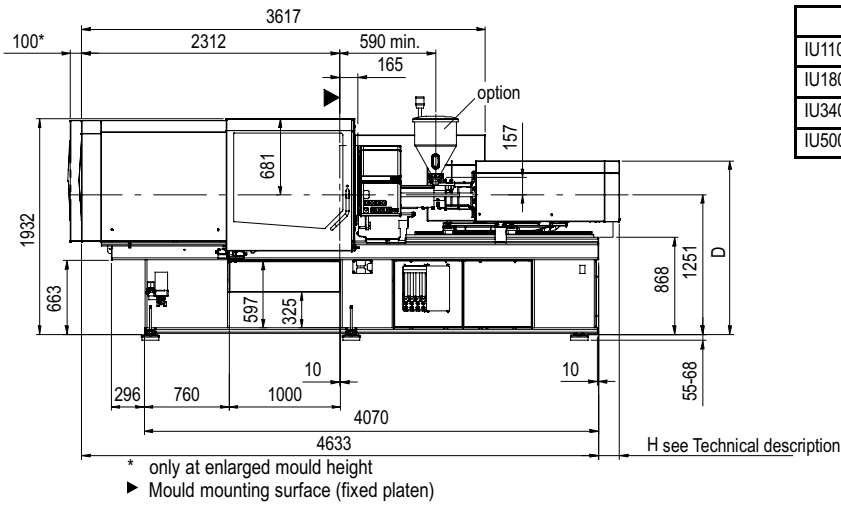
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

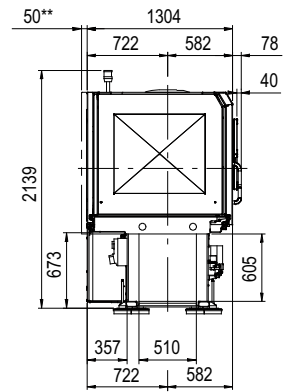
8) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 100/520 Smart Wide Platen

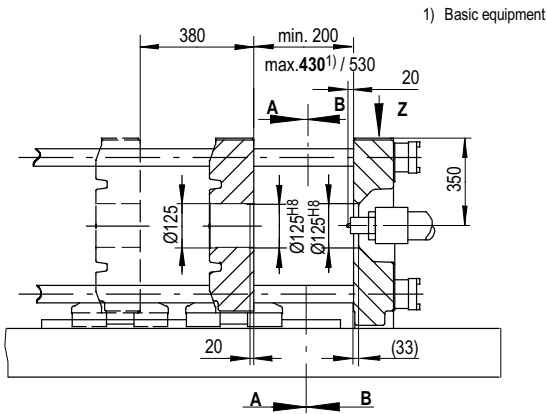


	D
IU110	1581
IU180	1581
IU340	1581
IU500	1601

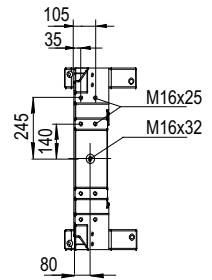


** valid for injection unit 500

Platen dimensions IntElect 100/520 Smart Wide Platen

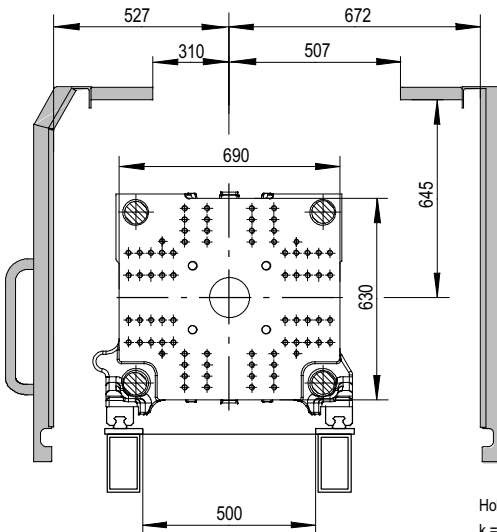


Z Hole pattern for robot/sprue picker on fixed platen



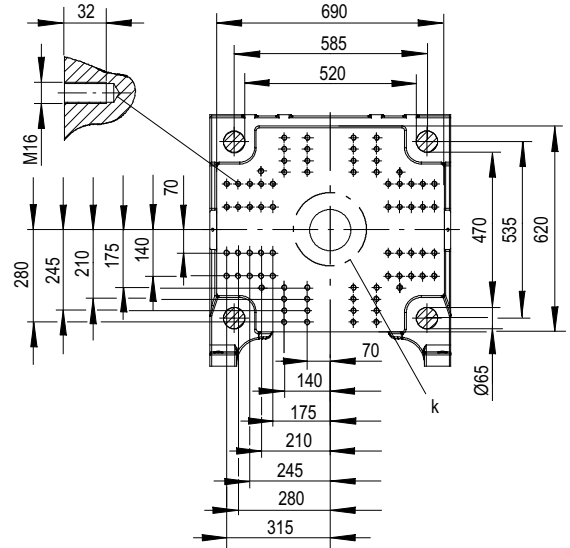
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 215 mm

Technical Data IntElect 160/520 Smart

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed ³⁾	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 160/520 Smart								
IntElect 160/520-340			IntElect 160/520-500			IntElect 160/520-680		
1600-340			1600-500			1600-680		
160/520								
			1600					
			1760					
			495					
			275					
			585 ¹⁾ /685					
			1080 ¹⁾ /1180					
			760x785					
			520x520					
			300					
			1900					
			1300					
			125					
			35					
			direct drive					
			belt drive					
340			500			680		
30	35	40	35	40	45	40	45	50
20	20	20	20	20	20	20	20	20
2800	2180	1670	2800	2150	1690	2720	2150	1740
114	156	203	178	232	294	251	318	393
102	139	181	158	207	262	224	283	349
200 (standard)			200 (standard)			200 (standard)		
300			300			300		
141	192	251	192	251	318	251	318	393
212	288	377	288	377	477	377	477	589
14	22,7	31,4	22,7	31,4	42	31,4	42	57,4
8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7
162			185			200		
350			350			450		
20			20			20		
30			30			30		
4	4	4	4	4	4	4	4	5
35			35			50		
			direct drive					
			direct drive					
160/520-340			160/520-500			160/520-680		
1,6-364			1,6-364			1,6-364		
7300			7400			7600		
5,37x1,46x2,06			5,37x1,46x2,06			5,37x1,46x2,06		
0/208	0/352	25/475	157/607	280/730	416/866	280/730	416/866	575/1025

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) High speed max. injection speed on request

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

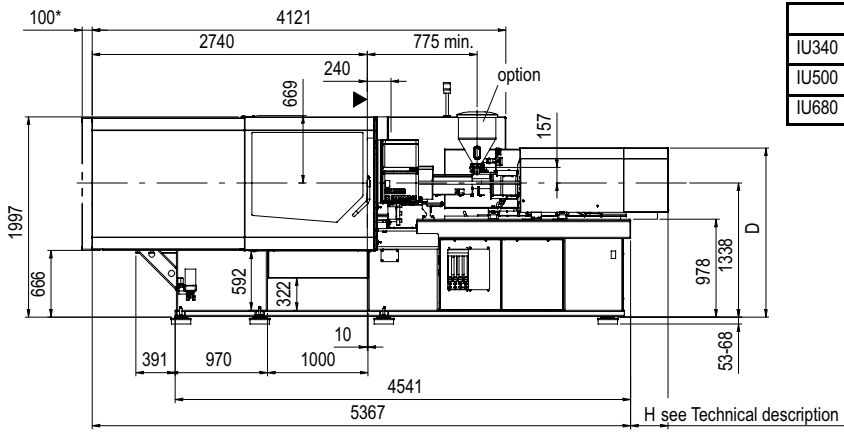
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

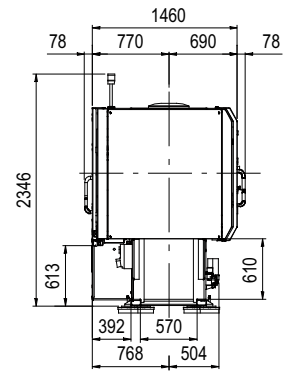
8) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 160/520 Smart



	D
IU340	1668
IU500	1688
IU680	1688

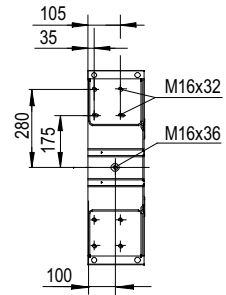
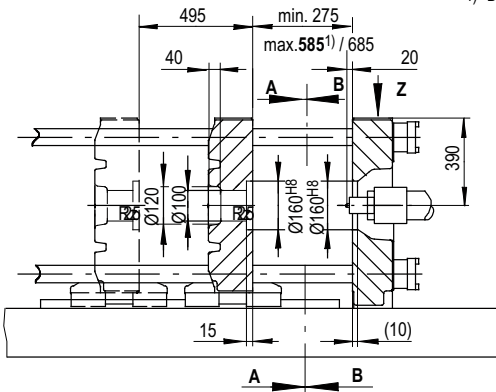


* only at enlarged mould height
 ▶ Mould mounting surface (fixed platen)

Platen dimensions IntElect 160/520 Smart

1) Basic equipment

Z Hole pattern for robot/sprue picker on fixed platen

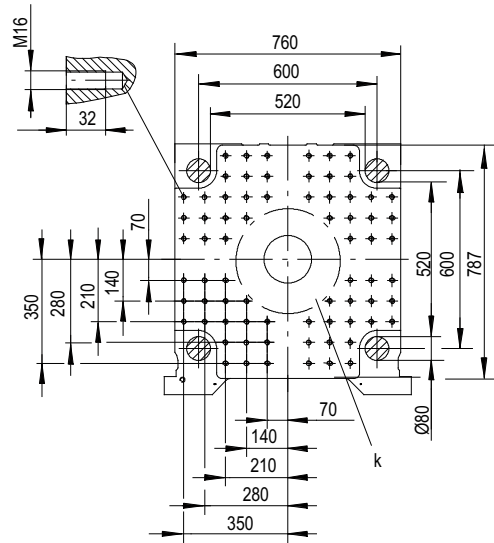
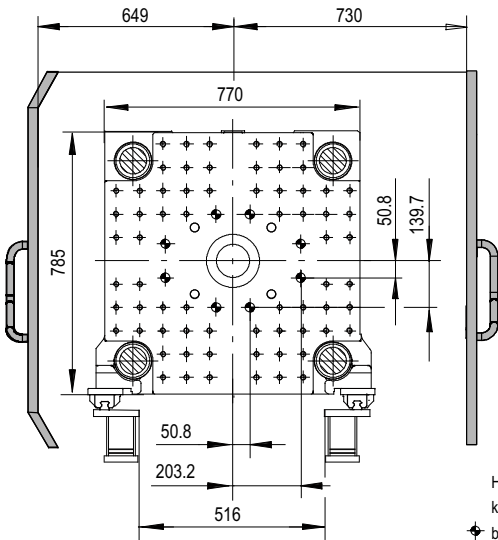


Movable platen

Fixed platen

B - B

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 300 mm
 ◆ bore diameter Ø 27 through holes

Technical Data IntElect 220/610 Smart

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Mould height max./enlarged	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ¹⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ²⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ³⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁶⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁷⁾	[mm]

IntElect 220/610 Smart											
IntElect 220/610-560			IntElect 220/610-750			IntElect 220/610-900			IntElect 220/610-1100		
2200-560			2200-750			2200-900			2200-1100		
220/610											
2200											
550											
300											
580/680											
1130/1230											
880x830											
610x560											
2300											
1500											
150											
58											
direct drive											
belt drive											
560			750			900			1100		
40	45	50	40	45	50	45	50	60	45	50	60
20	20	20	20	20	20	20	20	20	20	20	20
2600	2150	1740	2600	2150	1740	2425	2180	1514	2425	2160	1500
201	254	314	260	329	406	329	406	585	406	501	720
179	226	279	231	293	361	293	361	521	361	446	641
-			160 (standard)			-			160 (standard)		
350			-			350			-		
-			201			-			254		
440			-			556			-		
31,3			19,6			42			26		
11,1			11,1			13			13		
160			270			207			255		
430			430			450			450		
20			20			20			20		
58			58			58			58		
4			4			5			5		
50			50			70			70		
direct drive											
direct drive											
220/610-560			220/610-750			220/610-900			220/610-1100		
1,60-427			1,60-427			1,60-427			1,60-427		
10100			10100			10900			10900		

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

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The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) For long holding pressure time

2) Rate of injection based on the standard plasticizing unit

3) Plasticising rate depends on processing conditions and material employed

4) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

5) Optional

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

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

Machine dimensions (not available for printing) IntElect 220/610 Smart

Platen dimensions (not available for printing) IntElect 220/610 Smart

Technical Data IntElect 280/685 Smart

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping 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]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ¹⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ²⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ³⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁶⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁷⁾	[mm]
Screw drive overhang high speed (H) ⁸⁾	[mm]

IntElect 280/685 Smart												
IntElect 280/685-1250			IntElect 280/685-1600			IntElect 280/685-1700			IntElect 280/685-2200			
2800-1250			2800-1600			2800-1700			2800-2200			
280/685												
2800												
600												
350												
620/720												
1220/1320												
950x885												
685x635												
3300												
2200												
150												
58												
direct drive												
belt drive												
1250			1600			1700			2200			
45	50	60	45	50	60	50	60	70	50	60	70	
20	20	20	20	20	20	20	20	20	20	20	20	
2425	2425	1899	2425	2425	1896	2425	2366	1739	2425	2366	1739	
362	447	644	453	559	805	487	701	954	618	890	1212	
322	398	573	403	498	716	433	624	849	550	792	1079	
-			160 (standard)			-			160 (standard)			
350			-			350			-			
-	-	-	254	314	452	-	-	-	314	452	615	
556	687	989	-	-	-	687	989	1346	-	-	-	
38	52	75	26	36	58	46	65	83	36	47	67	
13	14,8	23,1	13	14,8	23,1	14,8	23,1	27	14,8	23,1	27	
228			285			248			315			
450			450			450			450			
20			20			20			20			
58			58			58			58			
5	5	5	5	5	5	5	5	6	5	5	6	
110			110			110			110			
belt drive												
direct drive			belt drive			direct drive			belt drive			
280/685-1250			280/685-1600			280/685-1700			280/685-2200			
1,70-480			1,70-480			1,70-480			1,70-480			
13700			13700			13900			13800			
7,2x1,7x2,1			7,2x1,7x2,1			7,2x1,7x2,1			7,2x1,7x2,1			
-	-	-	0/0	0/51	0/342	-	-	-	0/51	0/342	197/647	
0/0	0/0	0/180	-	-	-	0/13	0/304	159/609	-	-	-	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) For long holding pressure time

2) Rate of injection based on the standard plasticizing unit

3) Plasticising rate depends on processing conditions and material employed

4) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

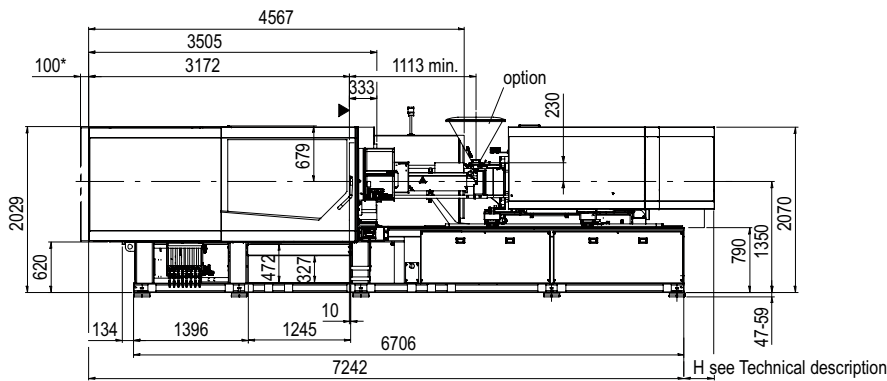
5) Optional

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

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

8) at nozzle contact / at max. distance of nozzle retraction

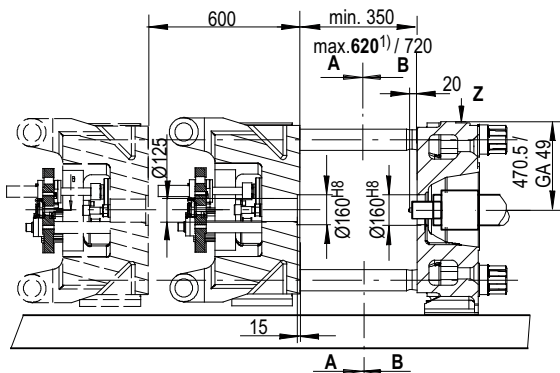
Machine dimensions IntElect 280/685 Smart



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

Platen dimensions IntElect 280/685 Smart

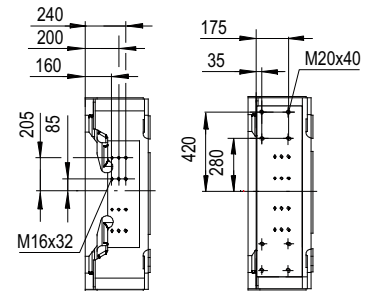
1) Basic equipment



Z Hole pattern for robot/sprue picker on fixed platen

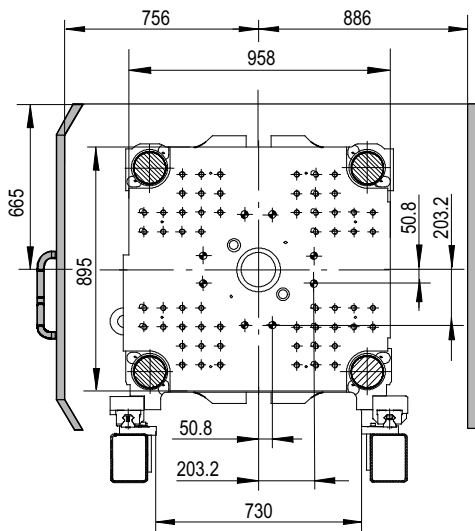
GA 49 ¹⁾

ZE 50 ¹⁾



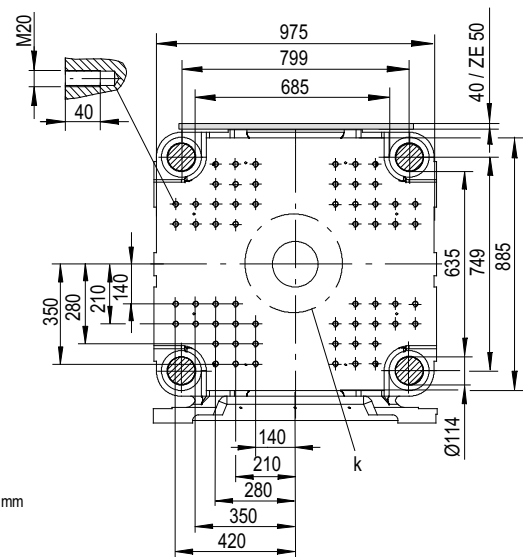
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 400 mm
 ♦ bore diameter Ø 27 through holes

Technical Data IntElect 350/760 Smart

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping force	[kN]
Max. mould opening stroke	[mm]
Min. mould height	[mm]
Mould height max./enlarged	[mm]
Daylight between platens max./enl.	[mm]
Mould platen (h x v)	[mm]
Distance between tie bars (h x v)	[mm]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ¹⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ²⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ³⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁶⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁷⁾	[mm]
Screw drive overhang high speed (H) ⁸⁾	[mm]

IntElect 350/760 Smart												
IntElect 350/760-1250			IntElect 350/760-2200			IntElect 350/760-1700			IntElect 350/760-1600			
3500-1250			3500-2200			3500-1700			3500-1600			
350/760												
3500												
700												
400												
670/770												
1370/1470												
1070x1020												
760x710												
4200												
2800												
150												
58												
direct drive												
belt drive												
1250			2200			1700			1600			
45	50	60	50	60	70	50	60	70	45	50	60	
20	20	20	20	20	20	20	20	20	20	20	20	
2425	2425	1899	2425	2366	1739	2425	2366	1739	2425	2425	1896	
362	447	644	618	890	1212	487	701	954	453	559	805	
322	398	573	550	792	1079	433	624	849	403	498	716	
-												
-			160 (standard)			-			160 (standard)			
350			-			350			-			
-												
-	-	-	314	452	615	-	-	-	254	314	452	
556	687	989	-	-	-	687	989	1346	-	-	-	
38	52	75	36	47	67	46	65	83	26	36	58	
13	14,8	23,1	14,8	23,1	27	14,8	23,1	27	13	14,8	23,1	
228			315			248			285			
450			450			450			450			
20			20			20			20			
58			58			58			58			
5	5	5	5	5	6	5	5	6	5	5	5	
110			110			110			110			
belt drive												
direct drive			belt drive			direct drive			belt drive			
350/760-1250			350/760-2200			350/760-1700			350/760-1600			
2,0-532			2,0-532			2,0-532			2,0-532			
17900			18100			18100			17900			
7,5x1,8x2,2			7,5x1,8x2,2			7,5x1,8x2,2			7,5x1,8x2,2			
-	-	-	0/51	0/342	197/647	-	-	-	0/0	0/51	0/342	
0/0	0/0	0/180	-	-	-	0/13	0/304	159/609	-	-	-	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) For long holding pressure time

2) Rate of injection based on the standard plasticizing unit

3) Plasticising rate depends on processing conditions and material employed

4) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

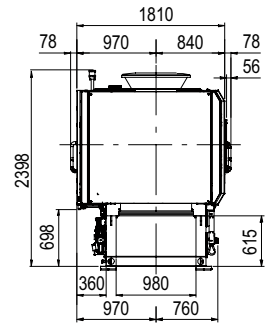
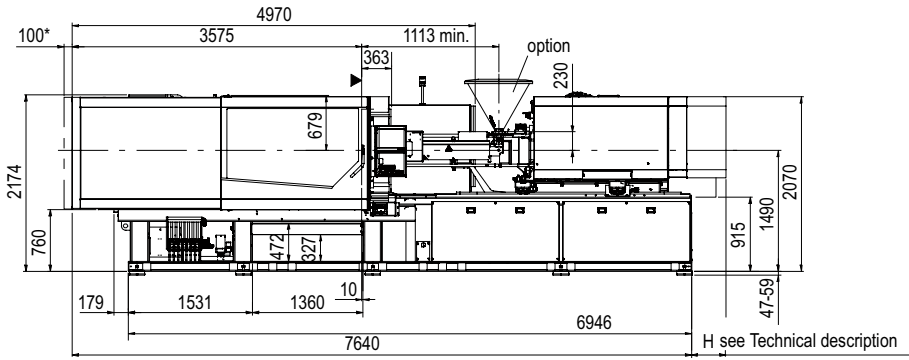
5) Optional

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

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

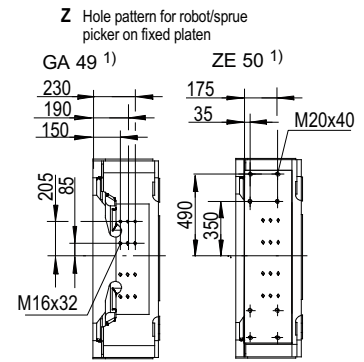
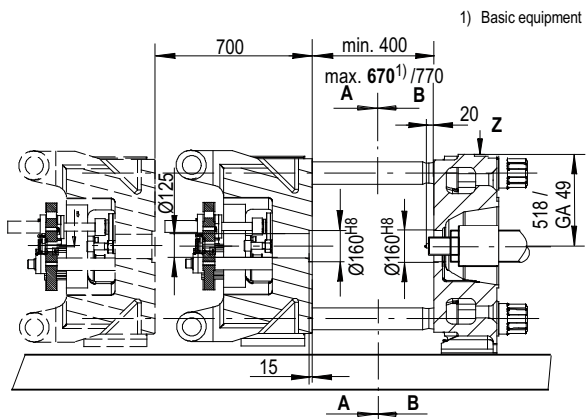
8) at nozzle contact / at max. distance of nozzle retraction

Machine dimensions IntElect 350/760 Smart



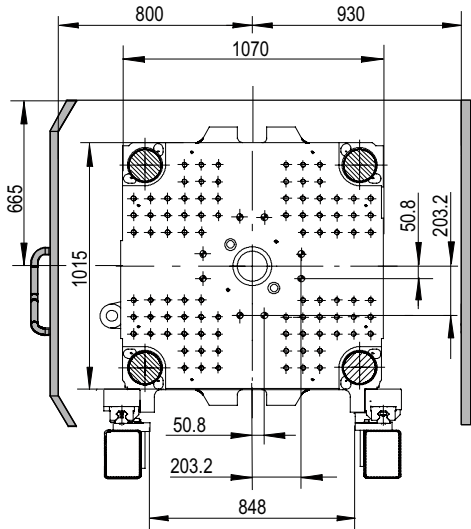
- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions IntElect 350/760 Smart



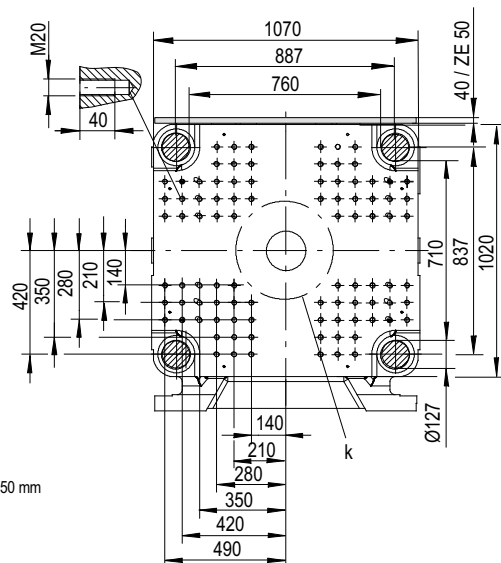
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
k = minimum permissible mould-Ø 450 mm
♣ bore diameter Ø 27 through holes

Technical Data IntElect 450/870 Smart

Sumitomo (SHI) Demag	
Model description	
International size description	
Clamping unit	
Clamping 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]
Max. permissible mould weight	[kg]
Max. mould weight on mov. platen	[kg]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ¹⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ²⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ³⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁴⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁵⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁶⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁷⁾	[mm]
Screw drive overhang high speed (H) ⁸⁾	[mm]

IntElect 450/870								
IntElect 450/870-1700			IntElect 450/870-2200			IntElect 450/870-3000		
4500-1700			4500-2200			4500-3000		
450/870								
4500								
800								
450								
800/900								
1600/1700								
1244x1154								
870x820								
6000								
4000								
175								
98								
belt drive								
belt drive								
3000			2200			1700		
60	70	80	50	60	70	50	60	70
20	20	20	20	20	20	20	20	20
2425	2194	1680	2425	2366	1739	2425	2366	1739
1017	1385	1809	618	890	1212	487	701	954
905	1233	1610	550	792	1079	433	624	849
160 (standard)			160 (standard)			-		
-			-			350		
452	615	804	314	452	615	-	-	-
-	-	-	-	-	-	687	989	1346
47	67	93	36	47	67	46	65	83
23,1	27	31	14,8	23,1	27	14,8	23,1	27
360			315			248		
520			520			450		
20			20			20		
58			58			58		
5	6	6	5	5	6	5	5	6
110			110			110		
belt drive								
direct drive			belt drive			direct drive		
450/870-3000			450/870-2200			450/870-1700		
3,0-609			3,0-609			3,0-609		
25000			24000			24000		
8,5x2,0x2,3			8,5x2,0x2,3			8,5x2,0x2,3		
0/0	0/20	0/240	0/0	0/0	0/106	-	-	-
-	-	-	-	-	-	0/0	0/0	0/80

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) For long holding pressure time

2) Rate of injection based on the standard plasticizing unit

3) Plasticising rate depends on processing conditions and material employed

4) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

5) Optional

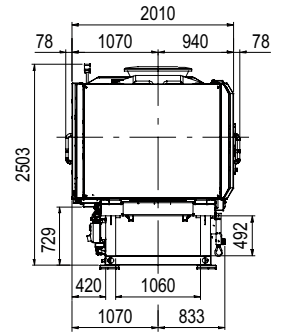
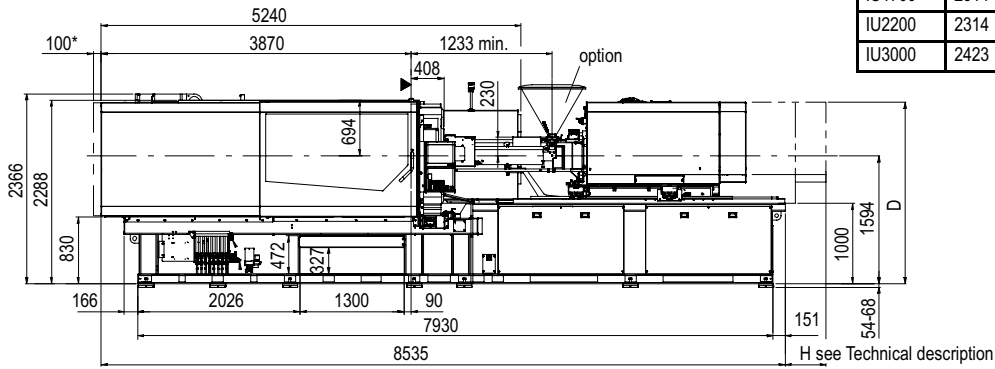
6) The weight of the machine may vary depending on equipment.

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

8) at nozzle contact / at max. distance of nozzle retraction

Machine dimensions IntElect 450/870 Smart

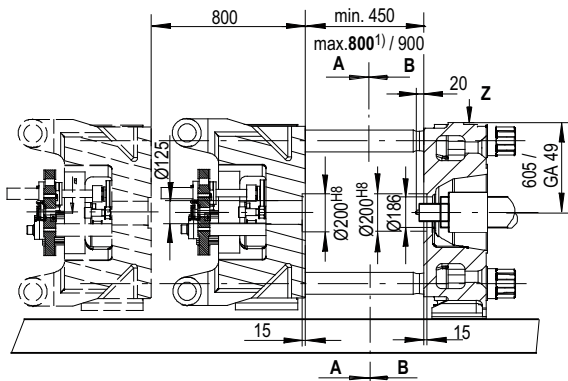
	D
IU1700	2314
IU2200	2314
IU3000	2423



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

Platen dimensions IntElect 450/870 Smart

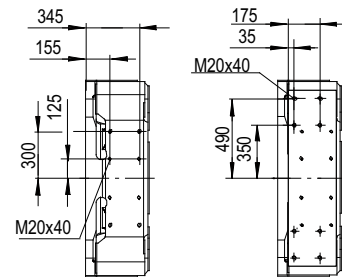
1) Basic equipment



Z Hole pattern for robot/sprue picker on fixed platen

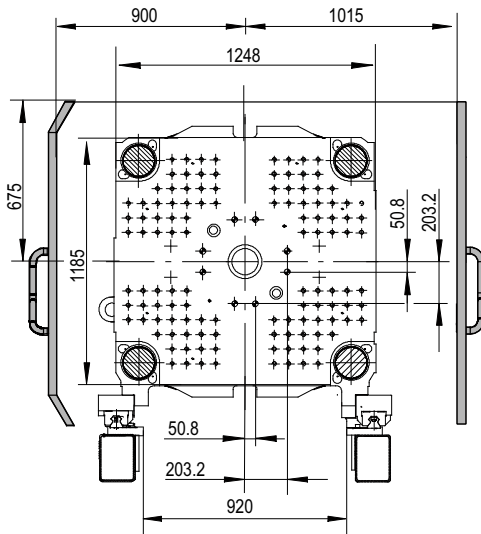
GA 49 1)

ZE 50 1)



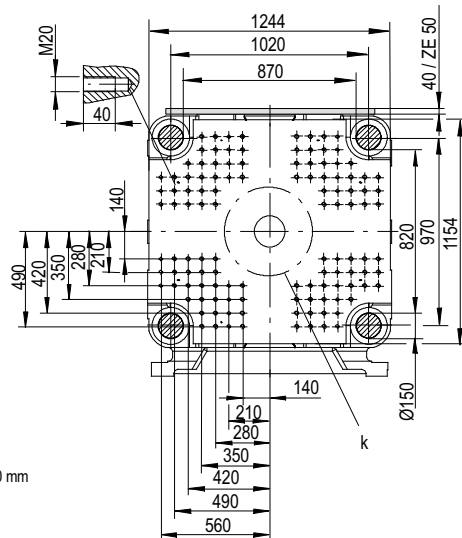
Movable platen

B - B



Fixed platen

A - A



Hole pattern according Euromap
 k = minimum permissible mould-Ø 500 mm
 ⌀ bore diameter Ø 27 through holes

Technical Data IntElect 50/370 Performance

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ³⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁴⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁷⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁸⁾	[mm]

IntElect 50/370 Performance														
IntElect 50/370-45			IntElect 50/370-80			IntElect 50/370-110			IntElect 50/370-180			IntElect 50/370-340		
500-45			500-80			500-110			500-180			500-340		
50/370														
						500								
						550								
						300								
						200								
						410 ^{1)/510}								
						710 ^{1)/810}								
						520x570								
						370x370								
						200								
						780								
						500								
						80								
						25								
						direct drive								
						direct drive								
45		80			110			180			340			
14	18	18	22	25	22	25	30	25	30	35	30	35	40	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	
2800	2150	2800	2050	1580	2800	2180	1515	2800	2180	1600	2800	2180	1670	
14	23	23	34	44	40	52	74	59	85	115	114	156	203	
12	20	20	30	39	36	46	66	52	75	103	102	139	181	
-		-			-			-			-			
300 (standard)		300 (standard)			300 (standard)			300 (standard)			300 (standard)			
-		-			-			-			-			
46	76	76	114	147	114	147	212	147	212	288	212	288	377	
1,25	4,58	4,58	7,5	12,5	7,5	12,5	17,5	12,5	17,5	28,33	17,5	28,33	39,17	
4	4,2	4,2	5,2	5,7	5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	
90		90			105			120			162			
350		350			350			350			350			
20		20			20			20			20			
30		30			30			30			30			
4		4			4			4			4			
35		35			35			35			35			
						direct drive								
						direct drive								
50/370-45			50/370-80			50/370-110			50/370-180			50/370-340		
1,1-259			1,1-259			1,1-259			1,1-259			1,1-259		
4500			4500			4500			4500			4750		
4,2x1,26x1,84			4,2x1,26x1,84			4,2x1,26x1,84			4,2x1,26x1,84			4,2x1,26x1,84		
0/0	0/81	0/0	0/69	0/131	0/152	0/214	0/337	0/112	0/235	29/379	92/442	236/586	357/709	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) Rate of injection based on the standard plasticizing unit

4) Plasticising rate depends on processing conditions and material employed

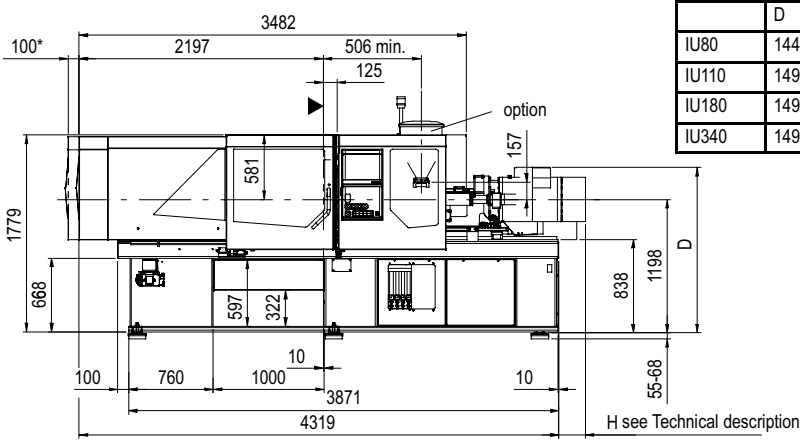
5) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

6) Optional

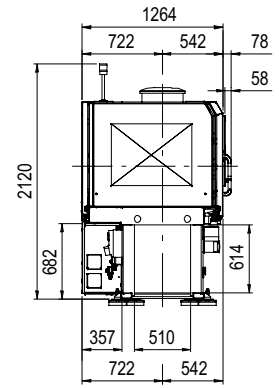
7) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 50/370 Performance

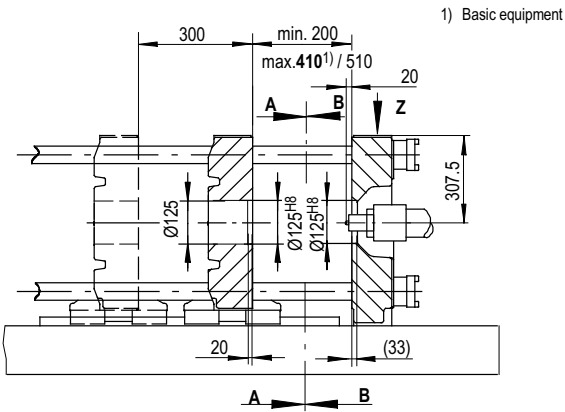


	D
IU80	1448
IU110	1498
IU180	1498
IU340	1498

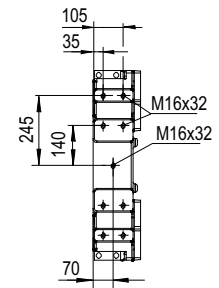


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

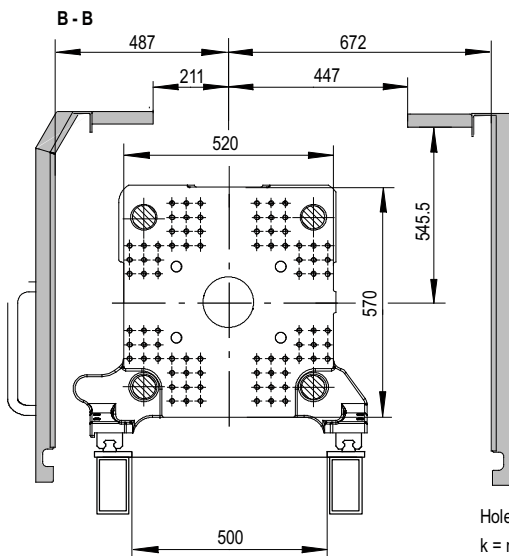
Platen dimensions IntElect 50/370 Performance



Z Hole pattern for robot/sprue picker on fixed platen

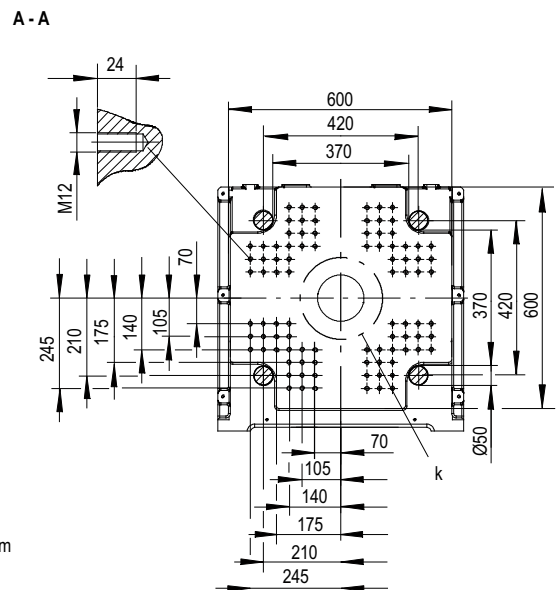


Movable platen



Hole pattern according Euromap
k = minimum permissible mould-Ø 200 mm

Fixed platen



Technical Data IntElect 50/420 Performance Wide Platen

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]
Mould height max./enlarged	[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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ³⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁴⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁷⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁸⁾	[mm]

IntElect 50/420 Performance Wide Platen														
IntElect 50/420-340				IntElect 50/420-45			IntElect 50/420-80			IntElect 50/420-110			IntElect 50/420-180	
500-340				500-45			500-80			500-110			500-180	
50/420														
500														
550														
300														
200														
410 ^{1)/} 510														
710 ^{1)/} 810														
570x570														
420x370														
200														
780														
500														
80														
25														
direct drive														
direct drive														
340				45			80			110			180	
30	35	40	14	18	18	22	25	22	25	30	25	30	35	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1670	2800	2150	2800	2050	1580	2800	2180	1515	2800	2180	1600	
114	156	203	14	23	23	34	44	40	52	74	59	85	115	
102	139	181	12	20	20	30	39	36	46	66	52	75	103	
-				-			-			-			-	
300 (standard)				300 (standard)			300 (standard)			300 (standard)			300 (standard)	
-				-			-			-			-	
212	288	377	46	76	76	114	147	114	147	212	147	212	288	
17,5	28,33	39,17	1,25	4,58	4,58	7,5	12,5	7,5	12,5	17,5	12,5	17,5	28,33	
8,3	9,4	11,1	4	4,2	4,2	5,2	5,7	5,2	5,7	8,3	5,7	8,3	9,4	
162				90			90			105			120	
350				350			350			350			350	
20				20			20			20			20	
30				30			30			30			30	
4				4			4			4			4	
35				35			35			35			35	
direct drive														
direct drive														
50/420-340				50/420-45			50/420-80			50/420-110			50/420-180	
1,2-294				1,2-294			1,2-294			1,2-294			1,2-294	
4750				4500			4500			4500			4500	
4,2x1,26x1,84				4,2x1,26x1,84			4,2x1,26x1,84			4,2x1,26x1,84			4,2x1,26x1,84	
92/442	236/586	357/709	0/0	0/81	0/0	0/69	0/131	0/152	0/214	0/337	0/112	0/235	29/379	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) Rate of injection based on the standard plasticizing unit

4) Plasticising rate depends on processing conditions and material employed

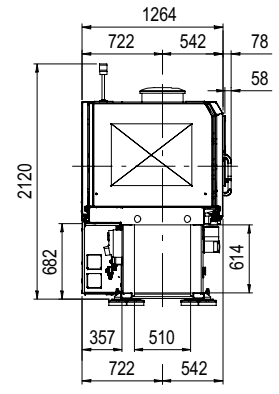
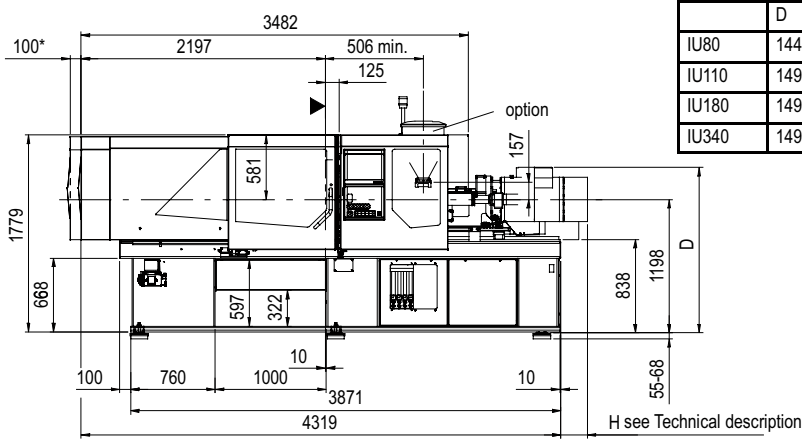
5) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

6) Optional

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

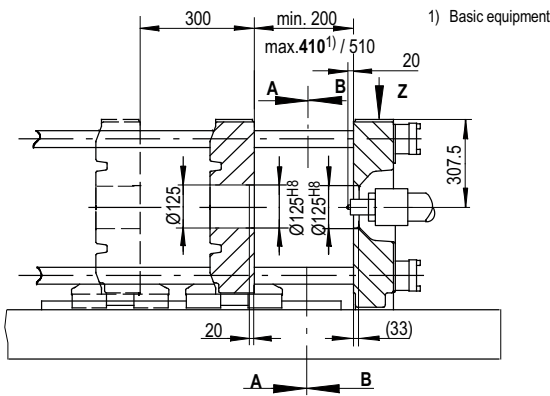
8) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions IntElect 50/420 Performance Wide Platen

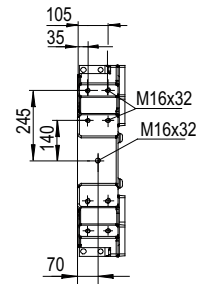


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

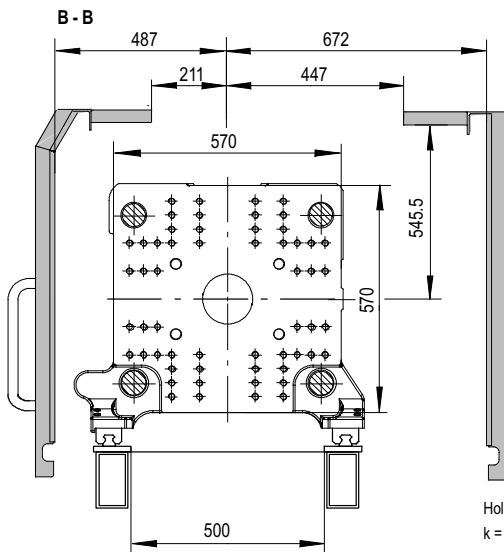
Platen dimensions IntElect 50/420 Performance Wide Platen



Z Hole pattern for robot/sprue picker on fixed platen

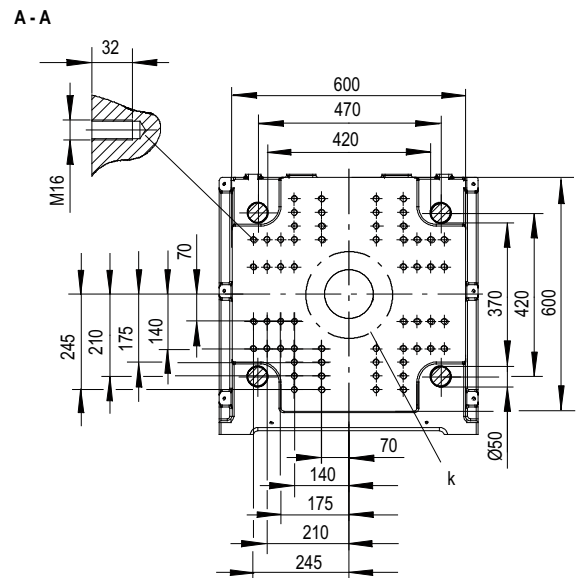


Movable platen



Hole pattern according Euromap
k = minimum permissible mould-Ø 200 mm

Fixed platen



Technical Data IntElect 80/470 Performance

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]
Mould height max./enlarged	[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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ³⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁴⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁷⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁸⁾	[mm]

IntElect 80/470 Performance												
IntElect 80/470-110			IntElect 80/470-180			IntElect 80/470-340			IntElect 80/470-500			
800-110			800-180			800-340			800-500			
80/470												
						800						
						880						
						380						
						200						
						430 ^{1)/530}						
						810 ^{1)/910}						
						620x620						
						470x420						
						215						
						780						
						500						
						115						
						35						
						direct drive						
						direct drive						
110			180			340			500			
22	25	30	25	30	35	30	35	40	35	40	45	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1515	2800	2180	1600	2800	2180	1670	2800	2150	1690	
40	52	74	59	85	115	114	156	203	178	232	294	
36	46	66	52	75	103	102	139	181	158	207	262	
									150			
300 (standard)			300 (standard)			300 (standard)			300 (standard)			
114	147	212	147	212	288	212	288	377	288	377	477	
7,5	12,5	17,5	12,5	17,5	28,4	17,5	28,4	39,2	22,7	31,4	42	
5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
									185			
									350			
									20			
									30			
4	4	4	4	4	4	4	4	4	4	4	4	
									35			
80/470-110			80/470-180			80/470-340			80/470-500			
1,1-329			1,1-329			1,1-329			1,1-329			
5100			5200			5400			5500			
4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			
0/0	0/14	0/137	0/0	0/35	0/179	0/242	36/386	159/509	183/533	307/656	442/792	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) basic equipment

2) For long holding pressure time

3) Rate of injection based on the standard plasticizing unit

4) Plasticising rate depends on processing conditions and material employed

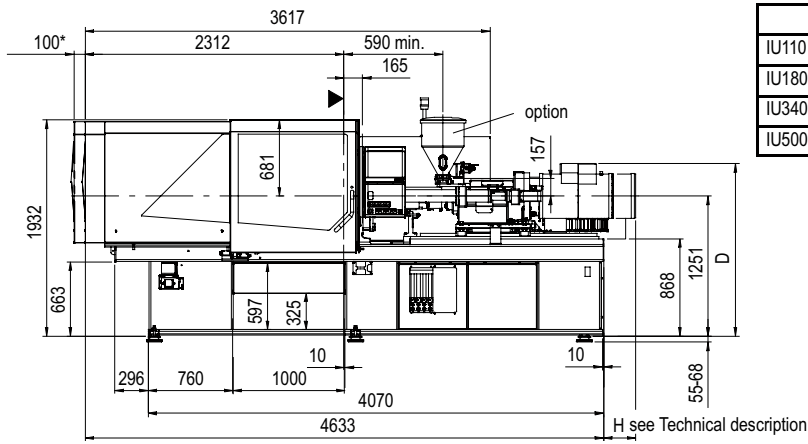
5) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

6) Optional

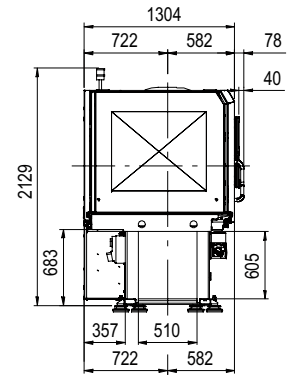
7) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 80/470 Performance

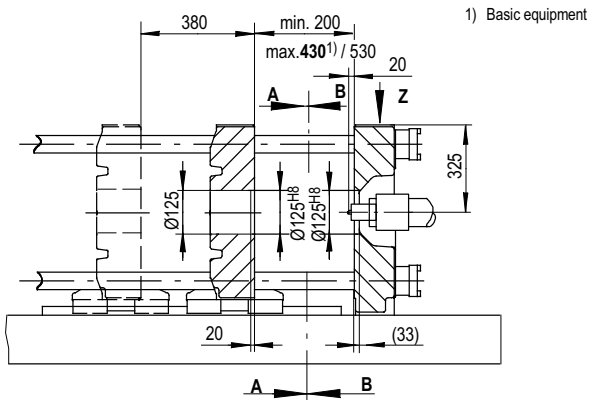


	D
IU110	1551
IU180	1551
IU340	1551
IU500	1551

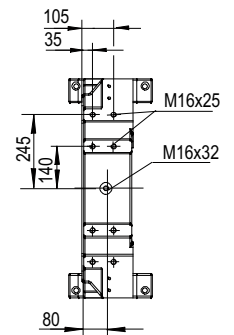


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

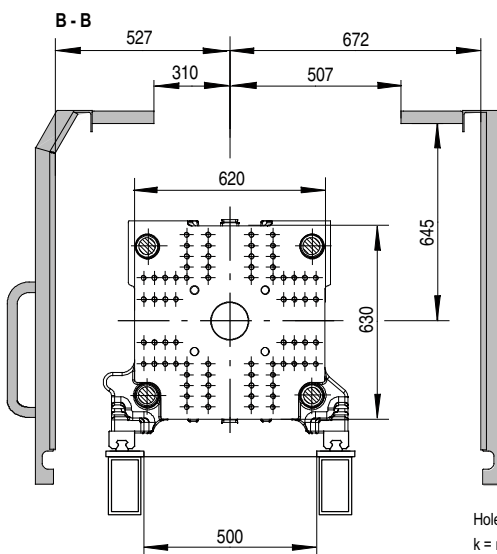
Platen dimensions IntElect 80/470 Performance



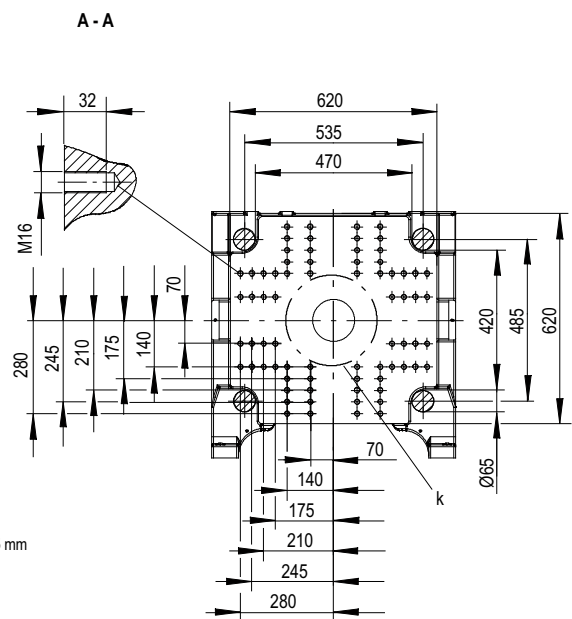
Z Hole pattern for robot/sprue picker on fixed platen



Movable platen



Fixed platen



Hole pattern according Euromap
k = minimum permissible mould-Ø 215 mm

Technical Data IntElect 80/520 Performance Wide Platen

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ³⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁴⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁷⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁸⁾	[mm]

IntElect 80/520 Performance Wide Platen												
IntElect 80/520-110			IntElect 80/520-180			IntElect 80/520-340			IntElect 80/520-500			
800-110			800-180			800-340			800-500			
80/520												
800												
880												
380												
200												
430 ¹⁾ /530												
810 ¹⁾ /910												
690x620												
520x470												
215												
780												
500												
115												
35												
direct drive												
direct drive												
110			180			340			500			
22	25	30	25	30	35	30	35	40	35	40	45	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1515	2800	2180	1600	2800	2180	1670	2800	2150	1690	
40	52	74	59	85	115	114	156	203	178	232	294	
36	46	66	52	75	103	102	139	181	158	207	262	
-			-			-			150			
300 (standard)			300 (standard)			300 (standard)			300 (standard)			
-			-			-			-			
114	147	212	147	212	288	212	288	377	288	377	477	
7,5	12,5	17,5	12,5	17,5	28,4	17,5	28,4	39,2	22,7	31,4	42	
5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
105			120			162			185			
350			350			350			350			
20			20			20			20			
30			30			30			30			
4	4	4	4	4	4	4	4	4	4	4	4	
35			35			35			35			
direct drive												
direct drive												
80/520-110			80/520-180			80/520-340			80/520-500			
1,2-364			1,2-364			1,2-364			1,2-364			
5200			5300			5500			5600			
4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			
0/0	0/14	0/137	0/0	0/35	0/179	0/242	36/386	159/509	183/533	307/656	442/792	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) basic equipment

2) For long holding pressure time

3) Rate of injection based on the standard plasticizing unit

4) Plasticising rate depends on processing conditions and material employed

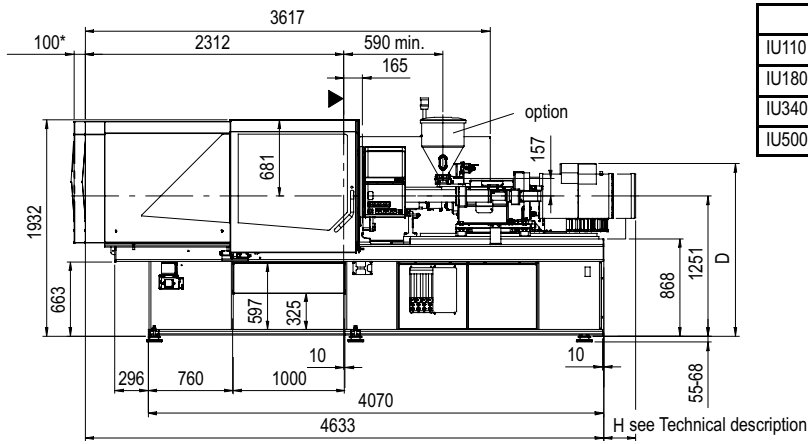
5) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

6) Optional

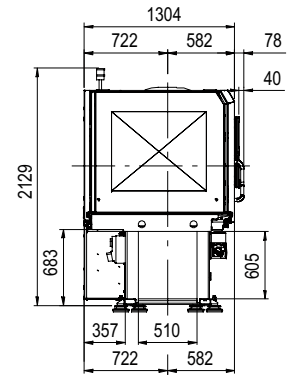
7) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 80/520 Performance Wide Platen

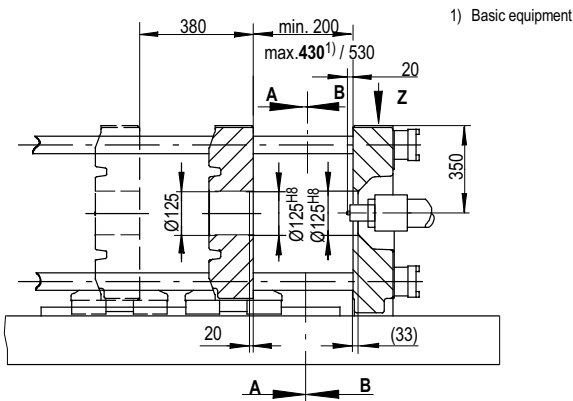


	D
IU110	1551
IU180	1551
IU340	1551
IU500	1551

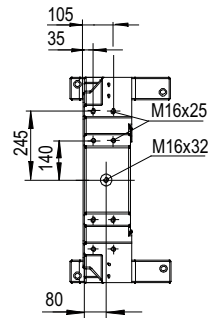


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

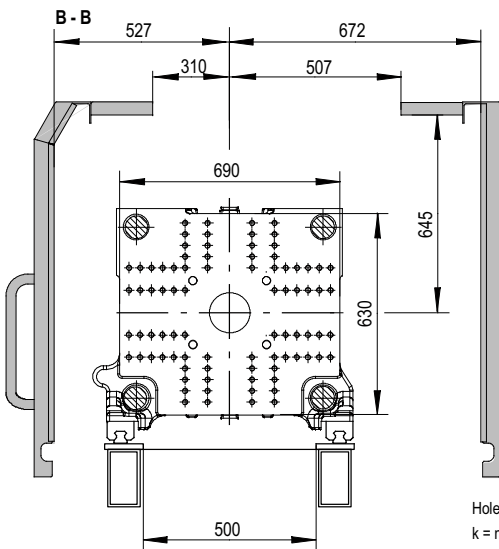
Platen dimensions IntElect 80/520 Performance Wide Platen



Z Hole pattern for robot/sprue picker on fixed platen



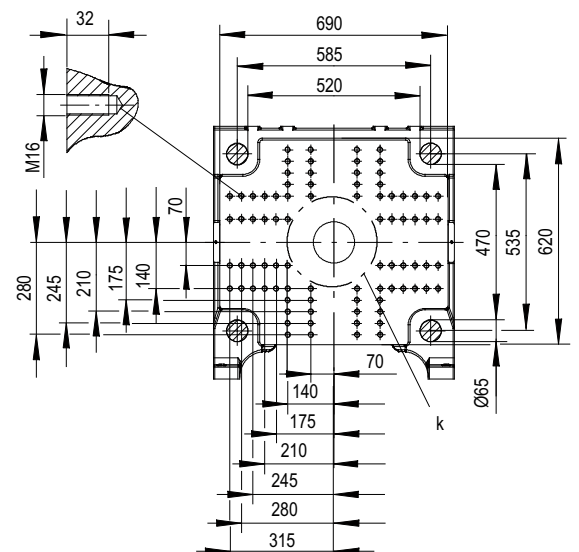
Movable platen



Hole pattern according Euromap
k = minimum permissible mould-Ø 215 mm

Fixed platen

A - A



Technical Data IntElect 100/470 Performance

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ³⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁴⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁷⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁸⁾	[mm]

IntElect 100/470 Performance												
IntElect 100/470-110			IntElect 100/470-180			IntElect 100/470-340			IntElect 100/470-500			
1000-110			1000-180			1000-340			1000-500			
100/470												
			1000									
			1100									
			380									
			200									
			430 ¹⁾ /530									
			810 ¹⁾ /910									
			620x620									
			470x420									
			215									
			780									
			500									
			115									
			35									
			direct drive									
			direct drive									
110			180			340			500			
22	25	30	25	30	35	30	35	40	35	40	45	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1515	2800	2180	1600	2800	2180	1670	2800	2150	1690	
40	52	74	59	85	115	114	156	203	178	232	294	
36	46	66	52	75	103	102	139	181	158	207	262	
									150			
300 (standard)			300 (standard)			300 (standard)			300 (standard)			
									144			
114	147	212	147	212	288	212	288	377	288	377	477	
7,5	12,5	17,5	12,5	17,5	28,4	17,5	28,4	39,2	22,7	31,4	42	
5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
			120			162			185			
			350			350			350			
			20			20			20			
			30			30			30			
			4			4			4			
			35			35			35			
									direct drive			
									direct drive			
100/470-110			100/470-180			100/470-340			100/470-500			
1,1-329			1,1-329			1,1-329			1,1-329			
5100			5200			5400			5500			
4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			
0/0	0/14	0/137	0/0	0/35	0/179	0/242	36/386	159/509	183/533	307/656	442/792	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) Rate of injection based on the standard plasticizing unit

4) Plasticising rate depends on processing conditions and material employed

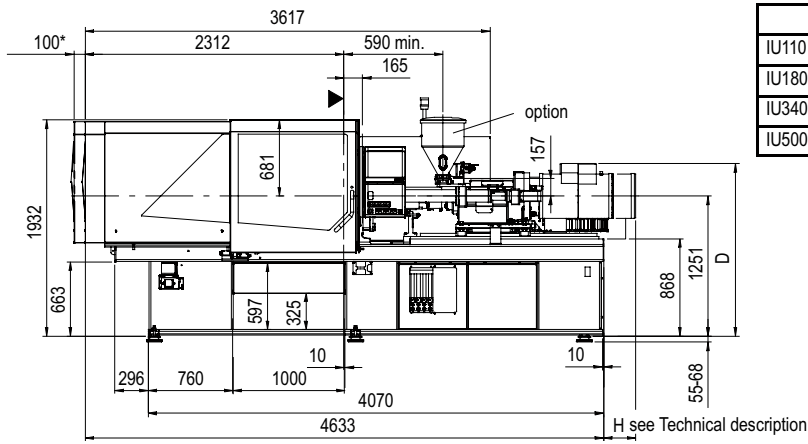
5) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

6) Optional

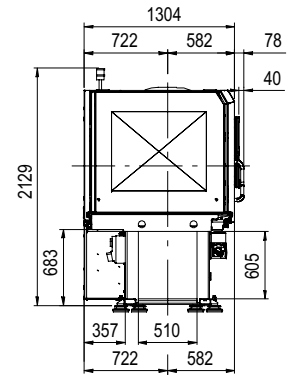
7) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 100/470 Performance

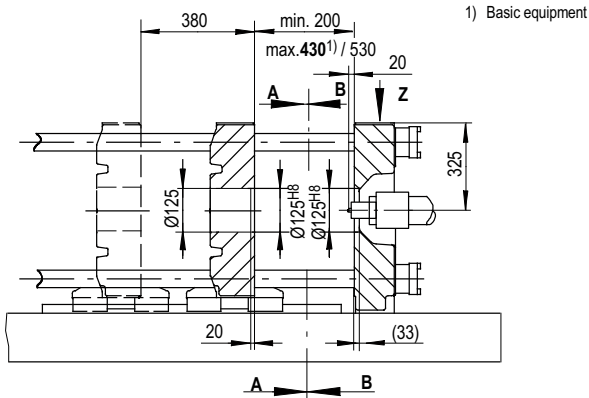


	D
IU110	1551
IU180	1551
IU340	1551
IU500	1551

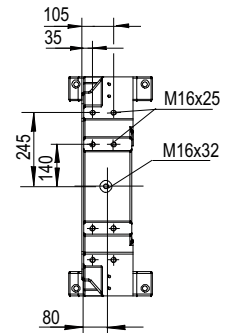


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

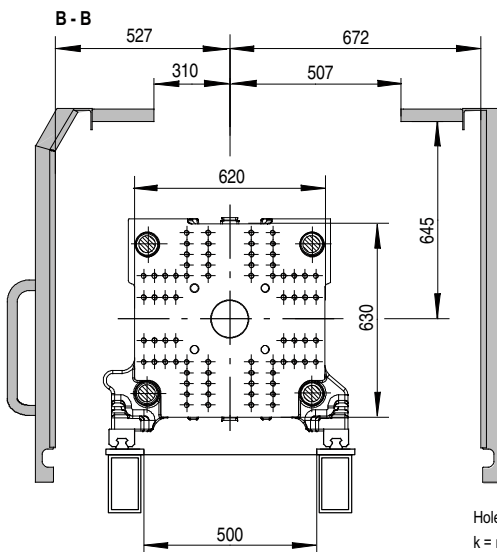
Platen dimensions IntElect 100/470 Performance



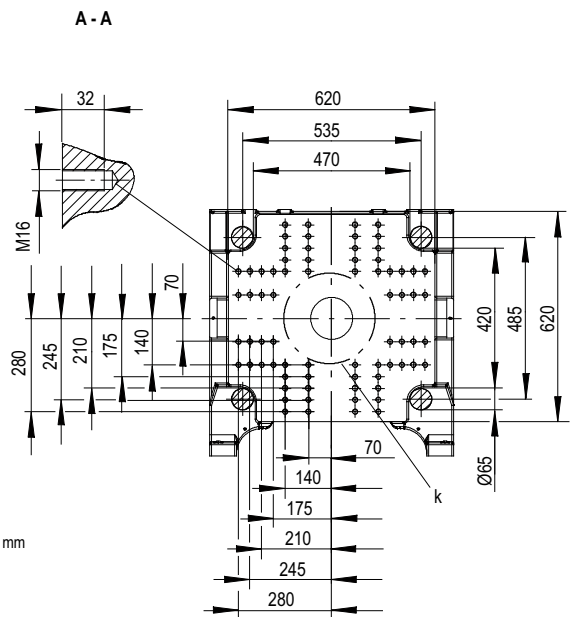
Z Hole pattern for robot/sprue picker on fixed platen



Movable platen



Fixed platen



Technical Data IntElect 100/520 Performance Wide Platen

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ²⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ³⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁴⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁵⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁶⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁷⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁸⁾	[mm]

IntElect 100/520 Performance Wide Platen												
IntElect 100/520-110			IntElect 100/520-180			IntElect 100/520-340			IntElect 100/520-500			
1000-110			1000-180			1000-340			1000-500			
100/520												
						1000						
						1100						
						380						
						200						
						430 ¹⁾ /530						
						810 ¹⁾ /910						
						690x620						
						520x470						
						215						
						780						
						500						
						115						
						35						
						direct drive						
						direct drive						
110			180			340			500			
22	25	30	25	30	35	30	35	40	35	40	45	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2180	1515	2800	2180	1600	2800	2180	1670	2800	2150	1690	
40	52	74	59	85	115	114	156	203	178	232	294	
36	46	66	52	75	103	102	139	181	158	207	262	
									150			
300 (standard)			300 (standard)			300 (standard)			300 (standard)			
									144			
114	147	212	147	212	288	212	288	377	288	377	477	
7,5	12,5	17,5	12,5	17,5	28,4	17,5	28,4	39,2	22,7	31,4	42	
5,2	5,7	8,3	5,7	8,3	9,4	8,3	9,4	11,1	9,4	11,1	11,3	
			105			120			185			
			350			350			350			
			20			20			20			
			30			30			30			
			4			4			4			
			35			35			35			
									direct drive			
									direct drive			
100/520-110			100/520-180			100/520-340			100/520-500			
1,2-364			1,2-364			1,2-364			1,2-364			
5200			5300			5500			5600			
4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			4,63x1,34x1,99			
0/0	0/14	0/137	0/0	0/35	0/179	0/242	36/386	159/509	183/533	307/656	442/792	

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) For long holding pressure time

3) Rate of injection based on the standard plasticizing unit

4) Plasticising rate depends on processing conditions and material employed

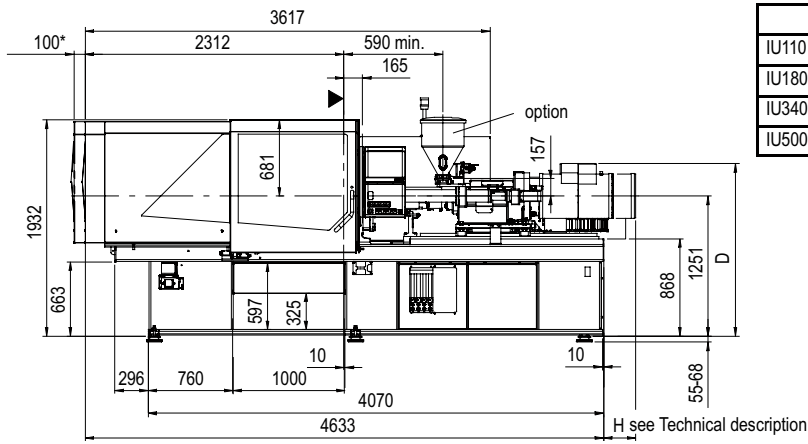
5) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

6) Optional

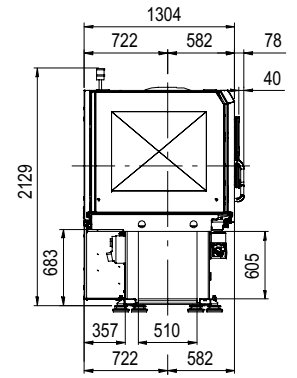
7) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 100/520 Performance Wide Platen

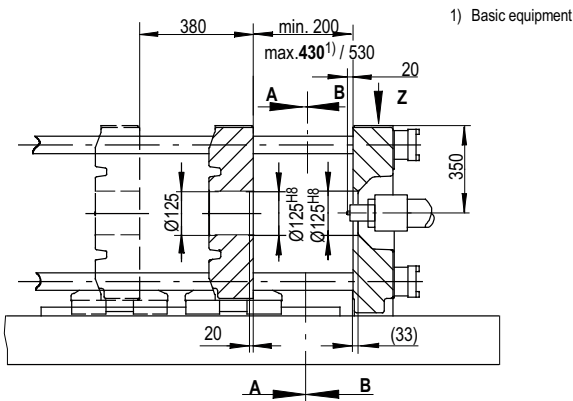


	D
IU110	1551
IU180	1551
IU340	1551
IU500	1561

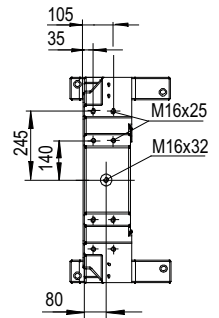


- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

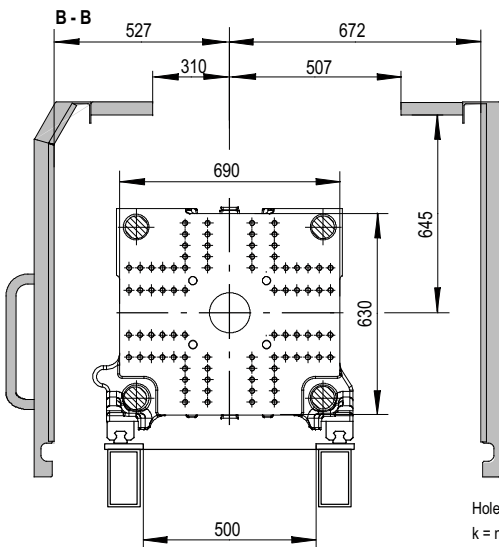
Platen dimensions IntElect 100/520 Performance Wide Platen



Z Hole pattern for robot/sprue picker on fixed platen

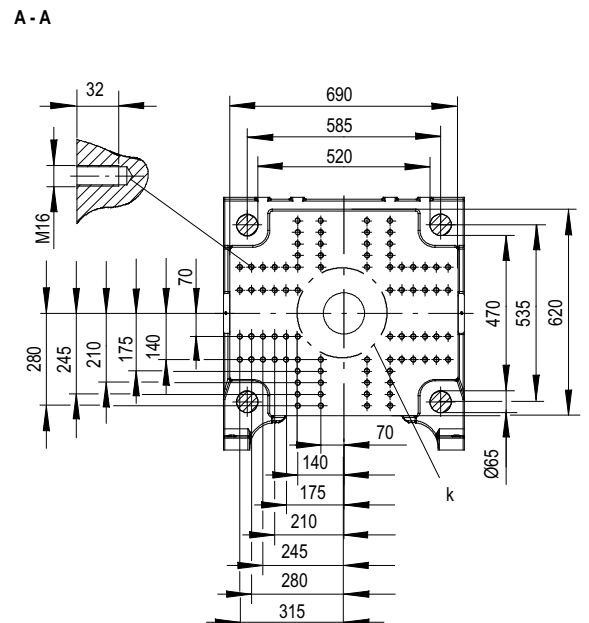


Movable platen



Hole pattern according Euromap
k = minimum permissible mould-Ø 215 mm

Fixed platen



Technical Data IntElect 160/520-340...680 Performance

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]
Mould height max./enlarged	[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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ³⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycles (Euromap 6) ⁸⁾	[s-mm]
Total machine weight ⁹⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ¹⁰⁾	[mm]

IntElect 160/520 Performance									
IntElect 160/520-340			IntElect 160/520-500			IntElect 160/520-680			
1600-340			1600-500			1600-680			
160/520									
			1600						
			1760						
			495						
			275						
			585 ^{1)/685}						
			1080 ^{1)/1180}						
			760x785						
			520x520 ²⁾						
			300						
			1900						
			1300						
			120						
			35						
			direct drive						
			direct drive						
340			500			680			
30	35	40	35	40	45	40	45	50	
20	20	20	20	20	20	20	20	20	
2800	2180	1670	2800	2150	1690	2600	2150	1740	
114	156	203	178	232	294	251	318	393	
102	139	181	158	207	262	224	283	349	
			150			150			
300 (standard)			300 (standard)			300 (standard)			
-	-	-	144	188	238	188	238	294	
212	288	377	288	377	477	377	477	589	
17,5	28,4	39,2	22,7	31,4	42	31,4	42	57,4	
8,3	9,4	11,1	9,4	11,1	11,3	11,1	11,3	15,7	
			185			200			
			350			450			
			20			20			
			30			30			
4	4	4	4	4	4	4	4	5	
			35			50			
			direct drive						
			direct drive						
160/520-340			160/520-500			160/520-680			
1,4-364			1,4-364			1,4-364			
7300			7400			7600			
5,37x1,46x2,05			5,37x1,46x2,05			5,37x1,46x2,05			
0/35	0/179	0/302	0/327	0/450	135/585	91/541	227/677	386/836	

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The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) extended distance between tie bars on demand

3) For long holding pressure time

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

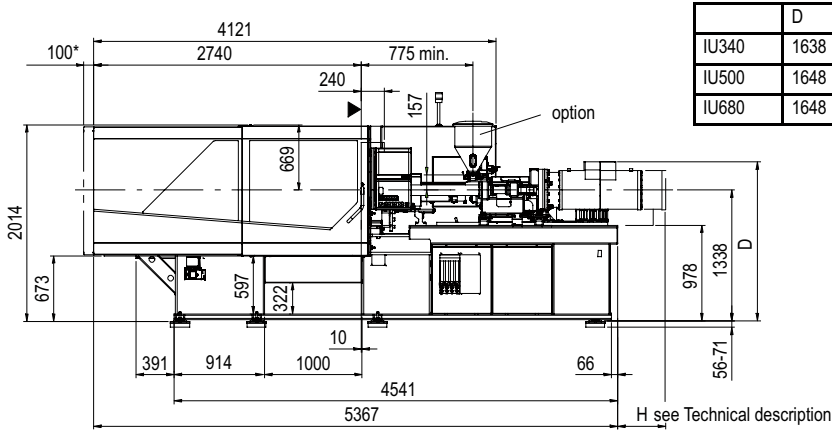
7) Optional

8) standard/increased/twin pump

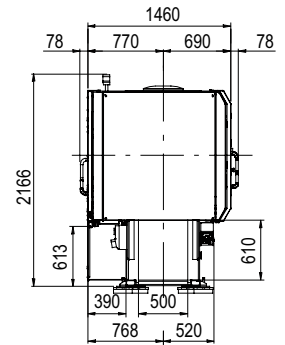
9) The weight of the machine may vary depending on equipment.

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

Machine dimensions IntElect 160/520-340...680 Performance

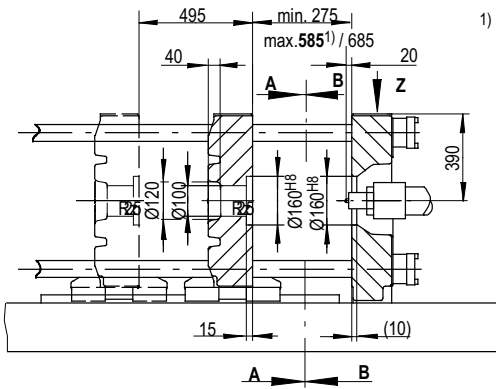


	D
IU340	1638
IU500	1648
IU680	1648



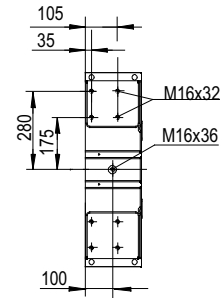
- * only at enlarged mould height
- ▶ Mould mounting surface (fixed platen)

Platen dimensions IntElect 160/520-340...680 Performance

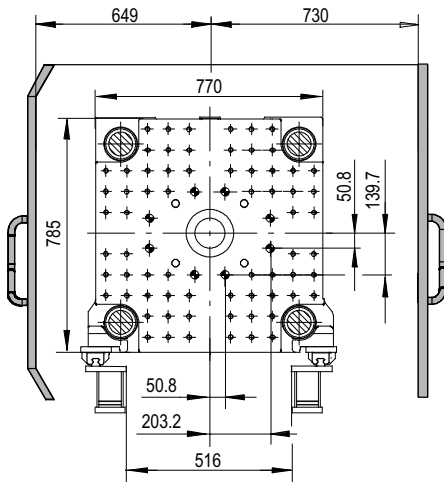


1) Basic equipment

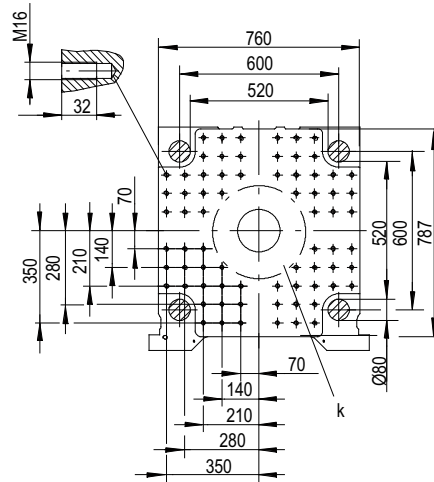
Z Hole pattern for robot/sprue picker on fixed platen



Movable platen
B - B



Fixed platen
A - A



Hole pattern according Euromap
k = minimum permissible mould- \varnothing 300 mm
◆ bore diameter \varnothing 27 through holes

Technical Data IntElect 160/520-1000 Performance

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ³⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm³/s]
> version speed	[cm³/s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 160/520 Performance		
IntElect 160/520-1000		
1600-1000		
160/520		
	1600	
	1760	
	495	
	275	
	585 ^{1)/} 685	
	1080 ^{1)/} 1180	
	760x785	
	520x520 ²⁾	
	300	
	1900	
	1300	
	120	
	35	
	direct drive	
	direct drive	
1000		
	45	60
	20	20
	2425	1500
	358	636
	318	566
	150	
	300 (standard)	
	238	424
	477	848
	47,3	105
	13	23,1
	5	5
	50	
	direct drive	
	direct drive	
160/520-1000		
	1,4-364	
	8600	
	5,80x1,49x2,05	
	0/0	0/329

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

The maximum injection speed and maximum injection pressure are values, which can not be available simultaneously.

The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) extended distance between tie bars on demand

3) For long holding pressure time

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

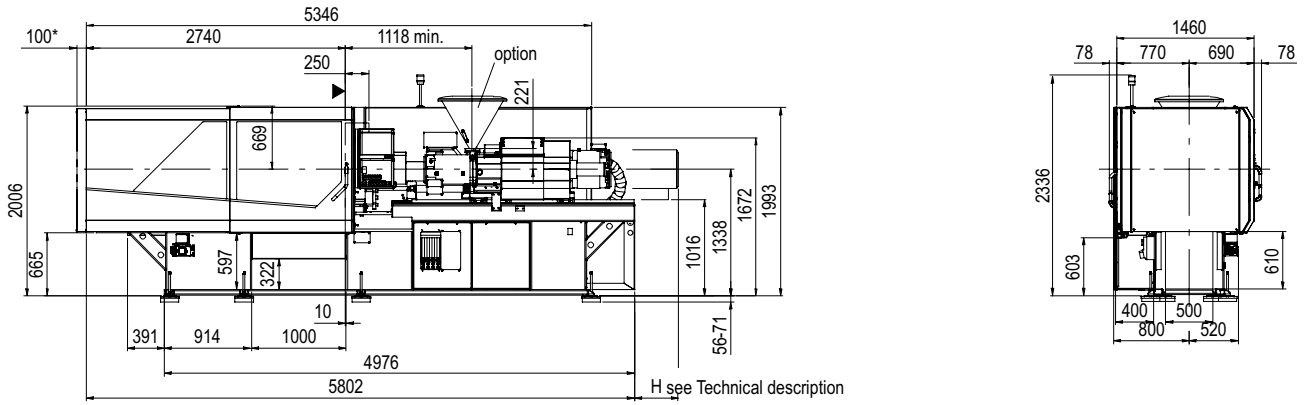
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

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

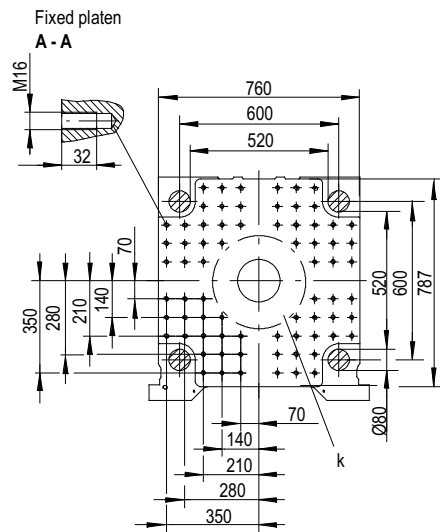
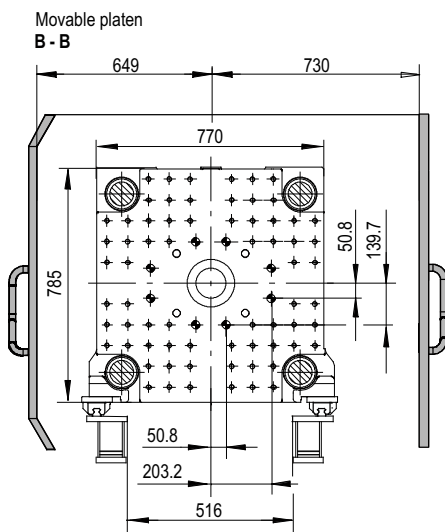
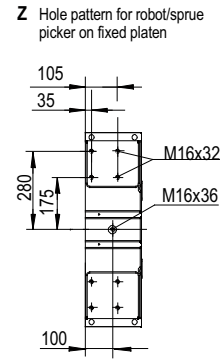
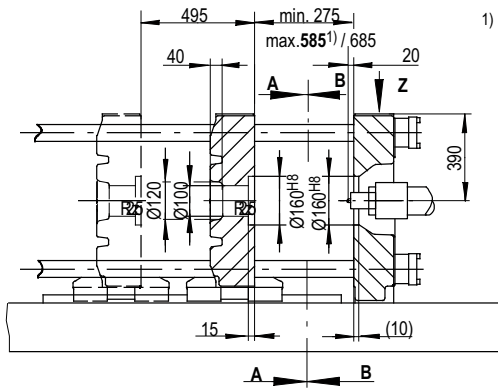
9) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions IntElect 160/520-1000 Performance



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

Platen dimensions IntElect 160/520-1000 Performance



Hole pattern according Euromap
 k = minimum permissible mould- \varnothing 300 mm
 ◆ bore diameter \varnothing 27 through holes

Technical Data IntElect 210/580 Performance

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]
Ejection stroke	[mm]
Ejection force	[kN]
Type of drive clamping unit	
Type of drive ejector	
Injection unit	
Screw diameter	[mm]
L/D ratio	
Max. injection pressure (up to 400°C)	[bar]
Cylinder head volume, max.	[cm ³]
Max. shot weight (PS)	[g]
Max. injection speed	
> version force ³⁾	[mm/s]
> version speed	[mm/s]
Max. rate of injection ⁴⁾	
> version force	[cm ³ /s]
> version speed	[cm ³ /s]
Max. plasticising rate (PS) ⁵⁾	[g/s]
Heating capacity	[kW]
Max. screw stroke	[mm]
Max. nozzle stroke ⁶⁾	[mm]
Max. nozzle dipping depth (SVO)	[mm]
Nozzle sealing force	[kN]
Number of heating zones	
Hopper capacity ⁷⁾	[ltr.]
Type of drive dosing	
Type of drive injection	
General data	
Dry cycle time (Euromap 6)	[s-mm]
Total machine weight ⁸⁾	[kg]
Machine dimensions (l x w x h)	[~m]
Screw drive overhang standard (H) ⁹⁾	[mm]

IntElect 210/580 Performance												
IntElect 210/580-500			IntElect 210/580-680			IntElect 210/580-1000			IntElect 210/580-1540			
2100-500			2100-680			2100-1000			2100-1540			
210/580												
			2100									
			2310									
			575									
			340									
			690 ^{1)/790}									
			1265 ^{1)/1365}									
			855x860									
			580x580 ²⁾									
			350									
			2900									
			2000									
			165									
			60									
			direct drive									
			direct drive									
500			680			1000			1540			
35	40	45	40	45	50	45	50	60	50	60	70	
20	20	20	20	20	20	20	20	20	20	20	20	
2800	2150	1690	2600	2150	1740	2425	2150	1500	2425	1970	1450	
178	232	294	251	318	393	358	442	636	530	763	1039	
158	207	262	224	283	349	318	393	566	472	679	924	
			150			150			150			
300 (standard)			300 (standard)			300 (standard)			300 (standard)			
144	188	238	188	238	294	238	294	424	294	424	577	
288	377	477	377	477	589	477	589	848	491	707	962	
22,7	31,4	42	31,4	42	57,4	47,3	64,5	105	57,4	93,4	133,4	
9,4	11,1	11,3	11,1	11,3	15,7	13	14,8	23,1	15,7	23,1	27	
			185			200			225			
			350			450			500			
			20			20			20			
			30			30			50			
4	4	4	4	4	5	5	5	5	5	5	5	
35			50			50			80			
			direct drive									
			direct drive									
210/580-500			210/580-680			210/580-1000			210/580-1540			
1,6-406			1,6-406			1,6-406			1,6-406			
9800			10000			11000			11500			
6,26x1,56x2,08			6,26x1,56x2,08			6,26x1,56x2,08			6,26x1,56x2,08			
0/0	0/0	0/102	0/58	0/194	0/353	0/0	0/40	0/331	0/194	0/485	290/790	

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

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The maximum injection pressure and maximum hold pressure are no pressures that can be generated continuously.

These parameters are based on a mains voltage 400 V. A deviating mains voltage will affect the machine parameters.

1) Basic equipment

2) extended distance between tie bars on demand

3) For long holding pressure time

4) Rate of injection based on the standard plasticizing unit

5) Plasticising rate depends on processing conditions and material employed

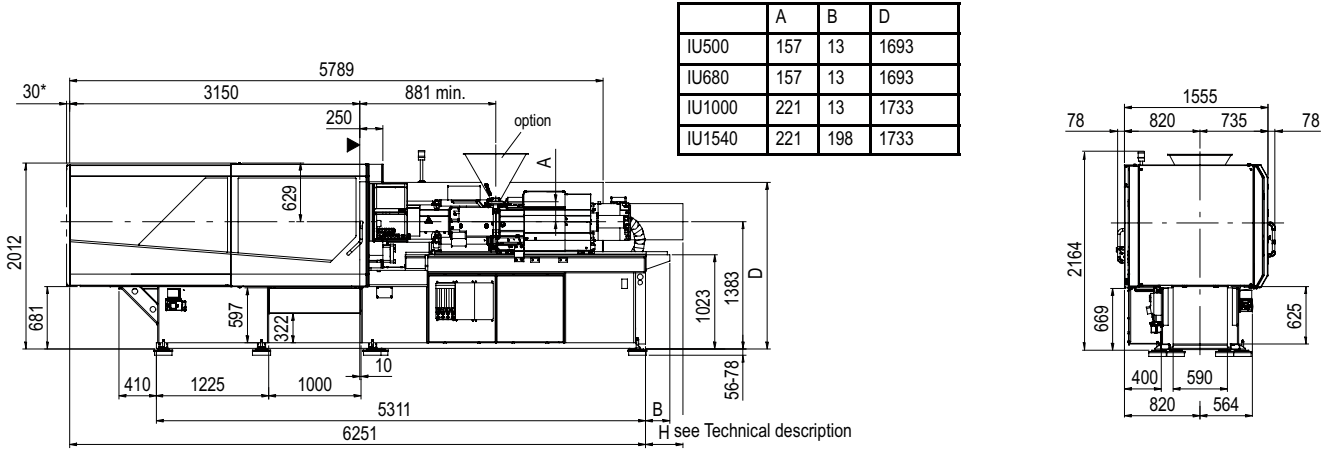
6) The maximum nozzle stroke only valid for open nozzles (SVO), carriage travel is shorter with shut-off or extended nozzles

7) Optional

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

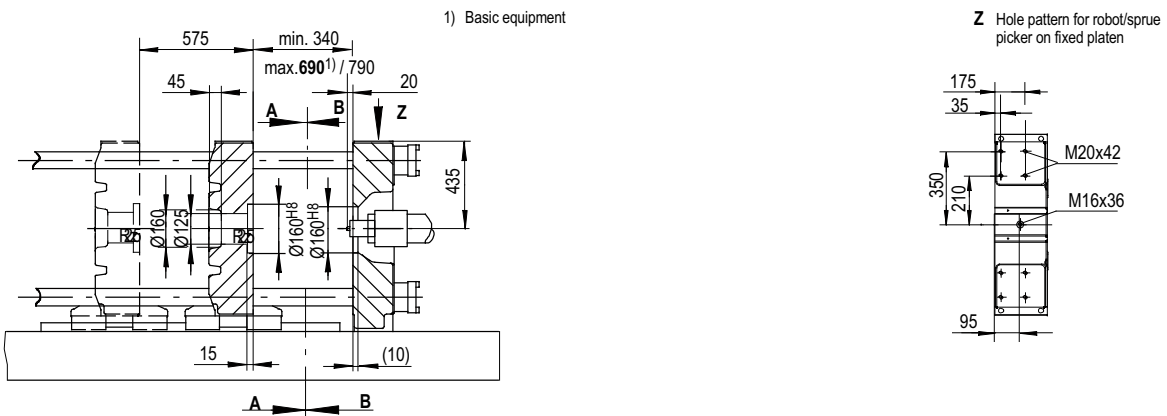
9) At nozzle contact / at max. distance of nozzle retraction

Machine dimensions IntElect 210/580 Performance



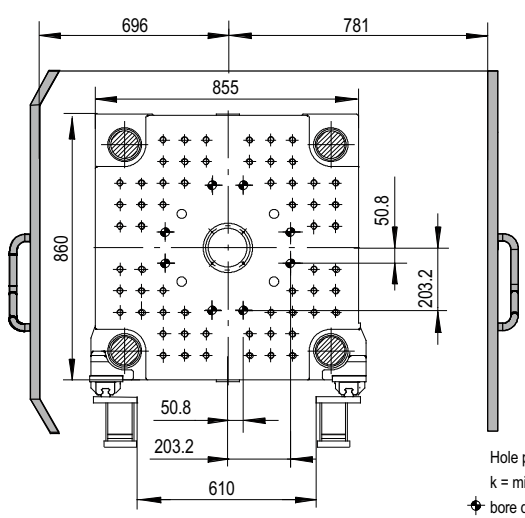
* only at enlarged mould height
 ▶ Mould mounting surface (fixed platen)

Platen dimensions IntElect 210/580 Performance



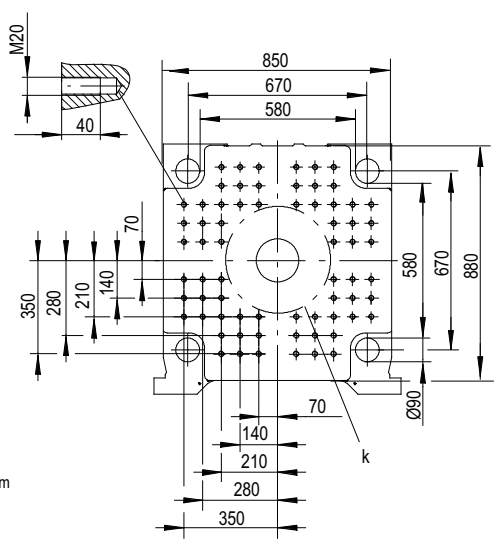
Movable platen

B - B



Fixed platen

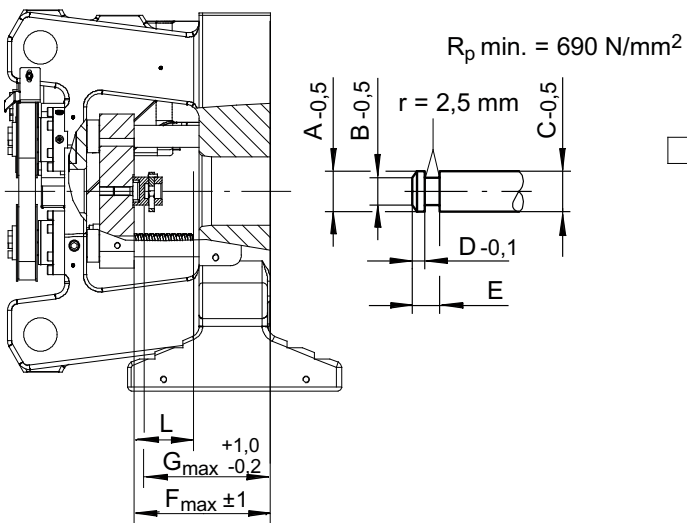
A - A



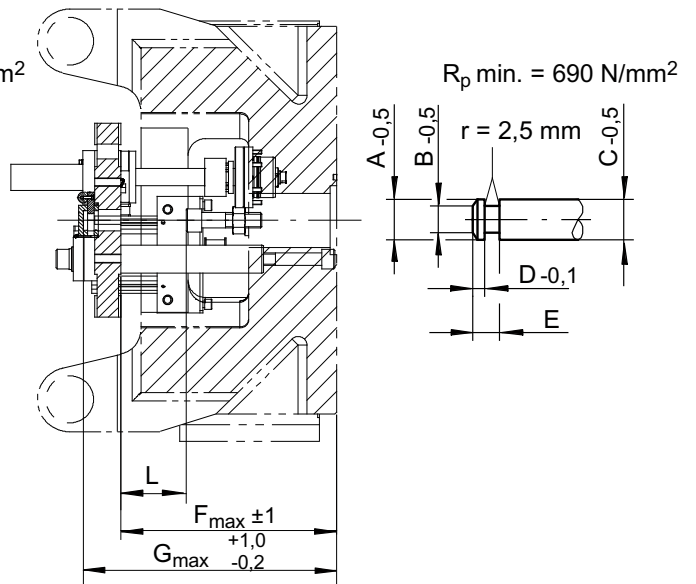
Hole pattern according Euromap
 k = minimum permissible mould-Ø 350 mm
 ◈ bore diameter Ø 27 through holes

Ejector - dimensioned diagram IntElect Smart

IntElect 50/370 Smart to 160/520 Smart



IntElect 220/610 Smart to 450/870 Smart

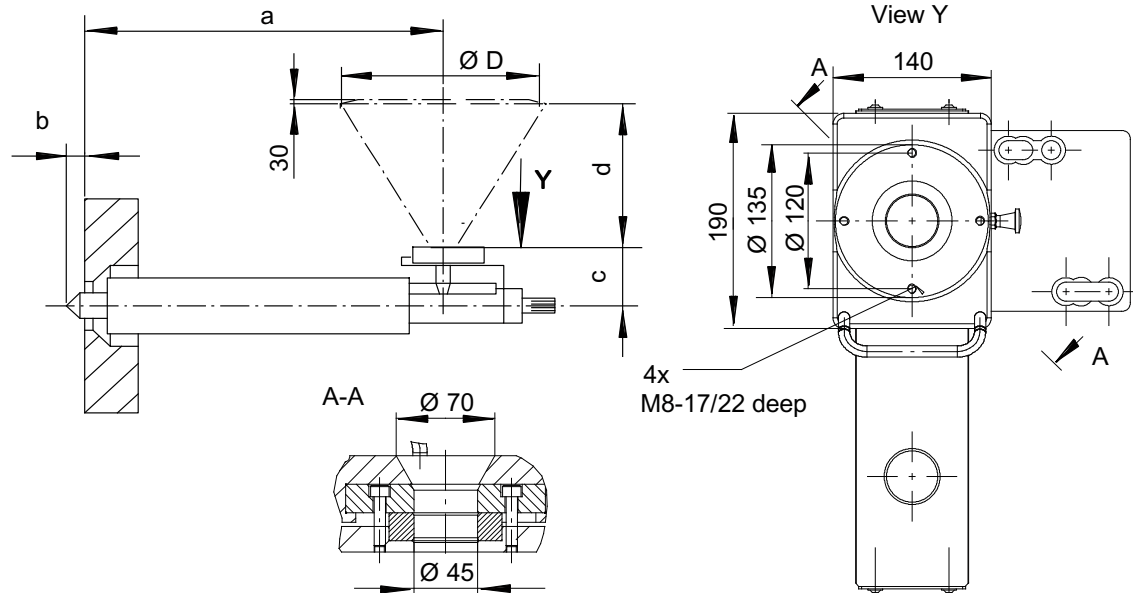


Ejector - connecting dimensions

Machine type	Dimensions [mm]							
	A	B	C	D	E	G _{max}	F _{max}	Stroke L
IntElect 50/370 Smart	24.5	14	24.5	7.8	20	182	200	90
IntElect 50/420 Smart	24.5	14	24.5	7.8	20	182	200	90
IntElect 80/470 Smart	24.5	14	24.5	7.8	20	230	248	110
IntElect 100/470 Smart	24.5	14	24.5	7.8	20	230	248	110
IntElect 100/520 Smart	24.5	14	24.5	7.8	20	230	248	110
IntElect 160/520 Smart	24.5	14	24.5	7.8	20	251	272	125
IntElect 220/610 Smart	44.5	26	44.5	9.5	26	589	502	150
IntElect 280/685 Smart	44.5	26	44.5	9.5	26	589	502	150
IntElect 350/760 Smart	44.5	26	44.5	9.5	26	589	502	150
IntElect 450/870 Smart	44.5	26	44.5	9.5	26	760	658	175

Coupling zone of ejector rods not hardened

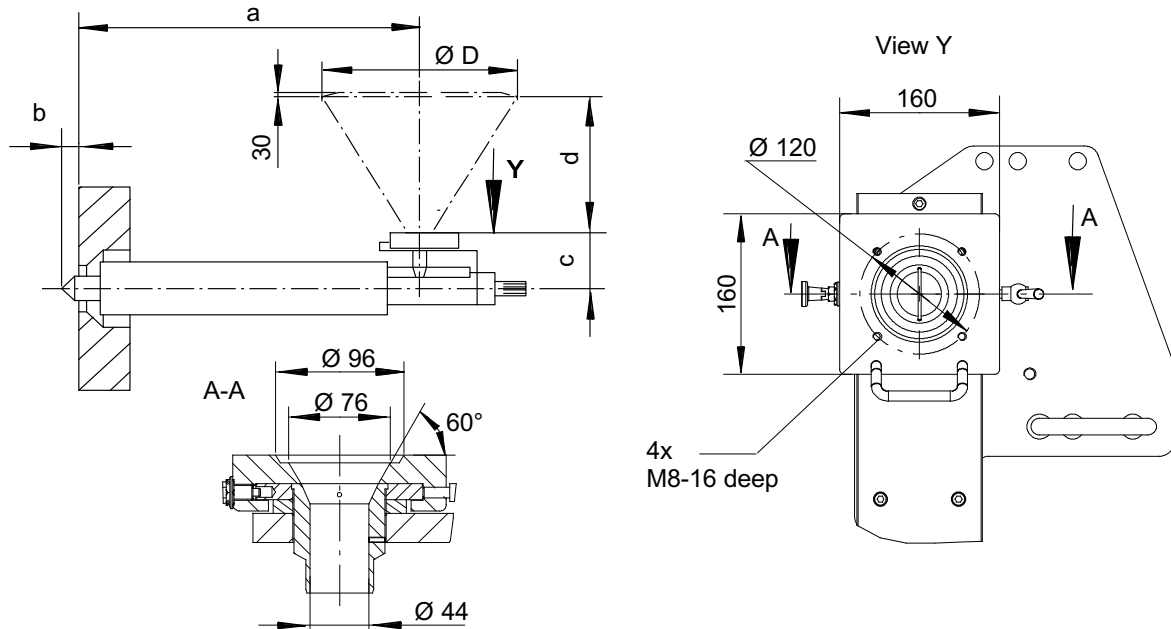
Connection dimensions for material conveyor IntElect Smart IU 45...750



IntElect 50/370 Smart - IntElect 220/610 Smart

Injection unit	Screw diameter [mm]	Dimension a [mm] with SVO		Dimension [mm]		
		a	b	c	d	D (inside)
IU 45	14	385	20	157	518	376
	18	506	20			
IU 80	18	506	20	157	518	376
	22	590	20			
IU 110	25	652	20	157	518	376
	22	590	20			
IU 180	30	775	20	157	518	376
	25	652	20			
IU 340	35	881	20	157	518	376
	30	775	20			
IU 500	40	990	20	157	518	376
	35	881	20			
IU 680	45	1118	20	157	670	376
	40	990	20			
IU 750	50	1224	20	157	670	376
	40	990	20			

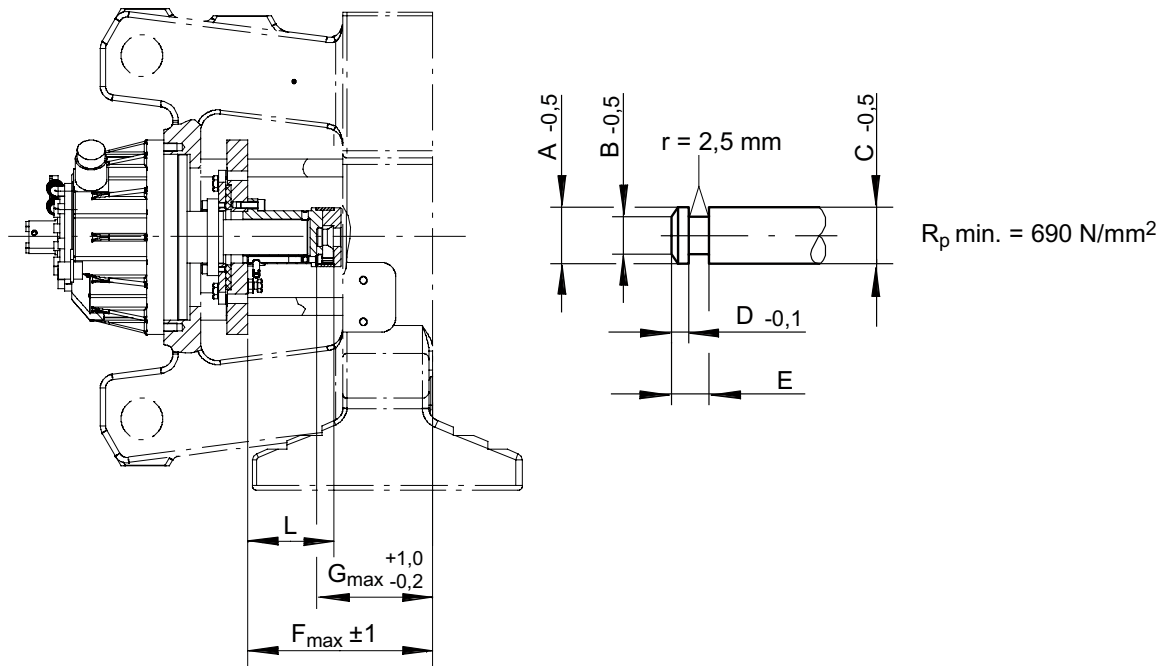
Connection dimensions for material conveyor IntElect Smart IU 900...3000



IntElect 220/610 Smart - IntElect 450/870 Smart

Injection unit	Screw diameter [mm]	Dimension a [mm] with SVO		Dimension [mm]		
		a	b	c	d	D (inside)
IU 900	45	1118	20	221	520	670
	50	1244	20			
	60	1475	20			
IU 1100	45	1118	20	221	520	670
	50	1244	20			
	60	1475	20			
IU 1250	45	1118	20	221	520	670
	50	1244	20			
	60	1475	20			
IU 1600	45	1118	20	221	520	670
	50	1244	20			
	60	1475	20			
IU 1700	50	1244	20	221	620	785
	60	1475	20			
	70	1719	20			
IU 2200	50	1244	20	221	620	785
	60	1475	20			
	70	1719	20			
IU 3000	60	1475	20	221	620	785
	70	1719	20			
	80	1965	20			

Ejector - dimensioned diagram IntElect Performance

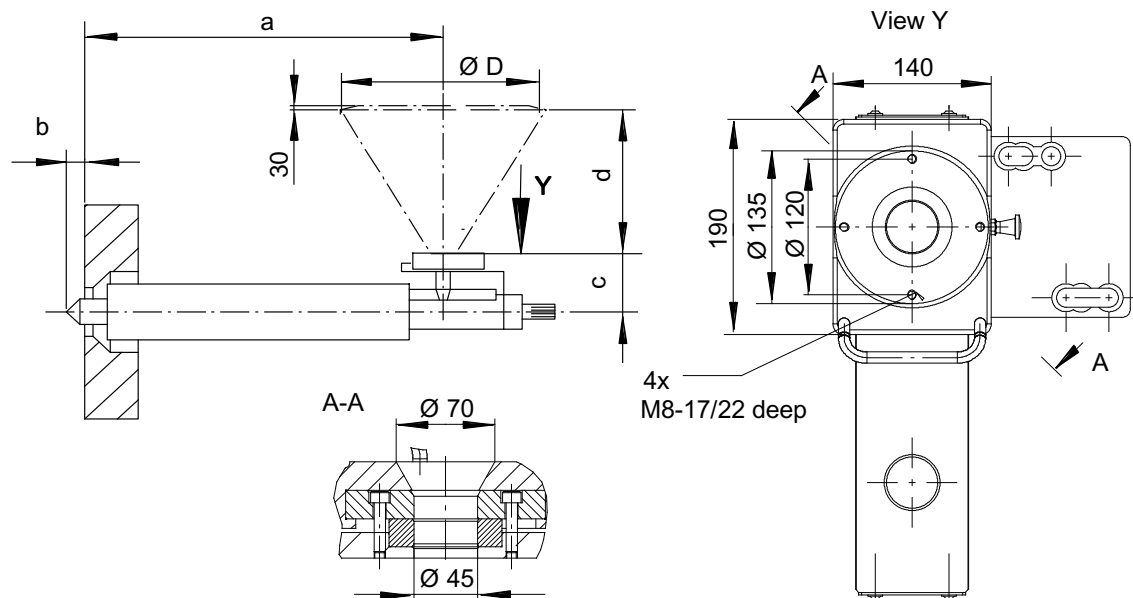


Ejector - connecting dimensions

Machine type	Dimensions [mm]							
	A	B	C	D	E	G_{max}	F_{max}	Stroke L
IntElect 50/370	24.5	14	24.5	7.8	20	145.5	207	80
IntElect 50/420	24.5	14	24.5	7.8	20	145.5	207	80
IntElect 80/470	24.5	14	24.5	7.8	20	167	267	115
IntElect 100/470	24.5	14	24.5	7.8	20	167	267	115
IntElect 100/520	24.5	14	24.5	7.8	20	167	267	115
IntElect 160/520	24.5	14	24.5	7.8	20	175	285	120
IntElect 210/580	44.5	26	44.5	9.5	26	222	372	165

Coupling zone of ejector rods not hardened

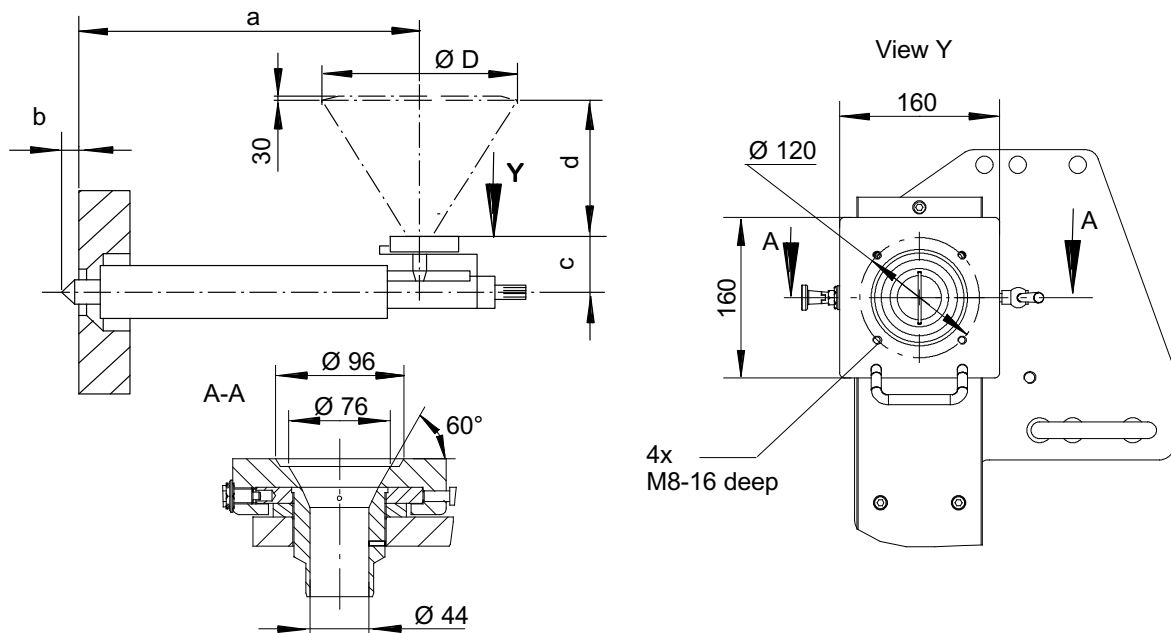
Connection dimensions for material conveyor IntElect Performance IU 45...680



IntElect 50/370 - IntElect 210/580

Injection unit	Screw diameter [mm]	Dimension a [mm] with SVO		Dimension [mm]		
		a	b	c	d	D (inside)
IU 45	14	385	20	157	518	376
	18	506	20			
IU 80	18	506	20	157	518	376
	22	590	20			
IU 110	25	652	20	157	518	376
	22	590	20			
IU 180	30	775	20	157	518	376
	25	652	20			
	35	881	20			
IU 340	30	775	20	157	518	376
	40	990	20			
IU 500	35	881	20	157	518	376
	45	1118	20			
IU 680	40	990	20	157	670	376
	45	1118	20			
	50	1224	20			

Connection dimensions for material conveyor IntElect Performance IU 1000...1540



IntElect 160/520 and IntElect 210/580

Injection unit	Screw diameter [mm]	Dimension a [mm] with SVO		Dimension [mm]		
		a	b	c	d	D (inside)
IU 1000	45	1118	20	221	520	670
	50	1244	20			
	60	1475	20			
IU 1540	50	1244	20	221	620	785
	60	1475	20			
	70	1719	20			

Equipment IntElect

Clamping unit	P 50...210	S 50...160	S 220...450
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 (from 1.600 kN)	○	○	○
Mould platen layout universal (up to 1.000 kN)	○	○	-
Mould mounting dimensions similar to SPI	○	○	○
Upper tiebar on operator side retractable (from 1.600 kN)	●	●	●
Upper tiebar on non-operator side retractable (from 1.600 kN)	●	●	●
Manual clamping mechanism for tiebar retraction (from 1.600 kN)	○	○	○
Extended mould height	○	○	○
Automatic mould height adjustment	○	○	○
Hydraulic central ejector with jolt stroke feature	●	●	●
Ejector coupling mechanical, automatic coupling, manually decoupling	●	-	-
Short/long stroke ejector	●	●	●
Programmable ejector stroke, power and speed	●	●	●
Ejector power and speed programmable for simultaneous operation with mould movement, including positioning control	●	●	●
Mould and ejector movements only when safety gate closed	●	●	●
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	●	●	●
Interface hydraulic/electric for connection of 2 or 4 hydraulic core pullers on machine base, non operator side	○	○	○
Pneumatically core puller 1-circuit via b/w valve on the movable platen including tubing	○	○	○
Manual pressure relief for 2 or 4 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 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	○	○	○
8 additional cooling water volume controllers (from 1.600 kN)	○	○	○
Time-programmable switch-off mould cooling	●	●	●
Blow-through for mould cooling lines	○	○	○
Automatic safety gate on operator side	○	○	○
Hot runner control (number of zones depending on machine size)	○	○	○

Injection unit	P 50...210	S 50...160	S 220...450
Flexible movement of the injection unit	●	●	●

Injection unit	P 50...210	S 50...160	S 220...450
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 M60x3 connection thread for screws from 30 mm	●	●	●
Open nozzle with M24x1,5 connection thread, from 18 mm screw diameter onwards incl. adapter (up to IU 680)	●	●	●
Extended open nozzle	○	○	○
Pneumatic shut off nozzle incl. control	○	○	○
Needle shut off nozzle	○	○	○
Melt temperature measuring (only for open nozzles; from IU 80)	○	○	○
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)	●	●	●
Pneumatic hot runner shut off control	○	○	○
Frequency controlled electric screw drive with AC servo motor	●	●	●
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	●	●	●
Electrical injection and closed-loop control of pressures and speed	●	●	●
Switch-over to holding pressure depending on melt 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	●	●	●
Two-stage injection unit movement	●	●	●
Screw position-controlled	●	●	●
WC5 - DPG World Connect; Remote maintenance and control of the machine	●	●	●
Energy-saving thermal insulation of the plasticizing	○	○	○

Electronics	P 50...210	S 50...160	S 220...450
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)	●	●	●

● Basic equipment

○ Additional price

Performance (P)

Smart (S)

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

Electronics	P 50...210	S 50...160	S 220...450
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	P 50...210	S 50...160	S 220...450
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)	○	○	○
Overlay of parameters of consecutive cycles in multiple graphs on one screen for a convenient evaluation of the process stability	○	○	○
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	●	●	●
Cycle time analysis	○	○	○

Automation	P 50...210	S 50...160	S 220...450
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	○	○	○

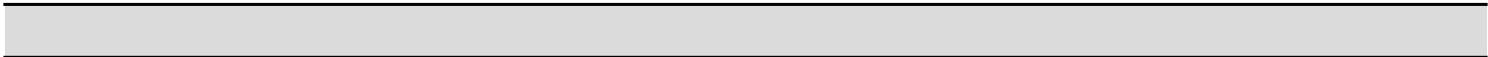
Interfaces	P 50...210	S 50...160	S 220...450
Display colored, as well as interface for external monitor and keyboard	●	●	●
Interface for mould protection (ejector plate safety)	●	●	●
Mould temperature display with monitoring for 2 circuits	○	○	○
Contact for colour-dosing unit with socket	○	○	○
CAN-Bus 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	○	○	○
Interface for robot, mechanical according to DET-Standard	-	-	●
Drilles for handling device to VDMA 24466	●	●	○
50-pin handling device interface conf. to Euromap 67 (VDMA)	○	○	○

Interfaces	P 50...210	S 50...160	S 220...450
Interface for 3 CAP-Signals: cycle running, automatic and semi-automatic	○	○	○
Data interface for main computer systems to Euromap 63 and SPI AN-142	○	○	○

General	P 50...210	S 50...160	S 220...450
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 IECIEE 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	○	○	○
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	●	●	●
Flexible machine supports with rubber-to-metal components	●	●	●
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.

Notes



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Notes



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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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