

technical parameters

NEO·HII

Two-platen
Injection Molding Machine

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t.NEO-HII.2026.01

tederic
SMART INJECTION

NEO·HII

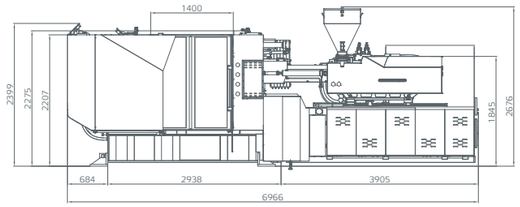
Parameters

Clamping unit	Unit	NEO·H480II					
Clamping force	kN	4800					
Clamping stroke	mm	1050/550					
Space between tie bars	mm	810×810					
Max. mold height	mm	850					
Min. mold height	mm	350					
Ejector stroke	mm	260					
Ejector force	kN	124					
No. of ejector pins	piece	11					
Max. daylight	mm	1400					
Min. mold dimension	mm	567×567					
Platen dimensions (HxV)	mm	1180×1180					
Injection unit	Unit	*i*2500			*i*3200		
		A	B	C	A	B	C
Screw diameter	mm	65	70	75	70	75	80
Screw L/D ratio	L/D	23.7	22.0	20.5	23.6	22.0	20.6
Shot size (theoretical)	cm^3	1161	1347	1546	1516	1741	1980
Injection weight (PS)	g	1057	1226	1407	1380	1584	1802
Injection pressure	MPa	215.4	185.7	161.8	212.1	184.8	162.4
Injection rate into air	g/s	473	549	630	480	552	627
Screw speed	rpm	187			187		
Max. injection speed	mm/s	157			137		
Injection stroke	mm	350			394		
Others	Unit	*i*2500			*i*3200		
Max. pump pressure	MPa	17.5			17.5		
Pump motor power	kW	40+40			40+40		
Heater power	kW	26 / 33			32		
Hopper capacity	kg	50			50		
Oil tank volume	L	590			590		
Machine dimension(LxWxH)	m	-			6.8X2.4X2.4		

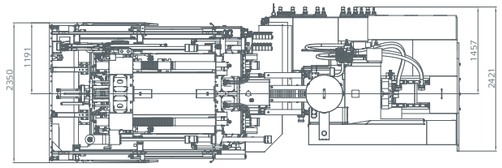
Remarks:
The bearing weight by moving platen is 2/3 of the maximum mold weight.
Theoretical capacity is the calculated volume of injection produced by the cross-sectional area of the screw/plunger and the injection stroke
The injection weight (PS) is the theoretical value derived form the injection volume and the typical melt density of polystyrene
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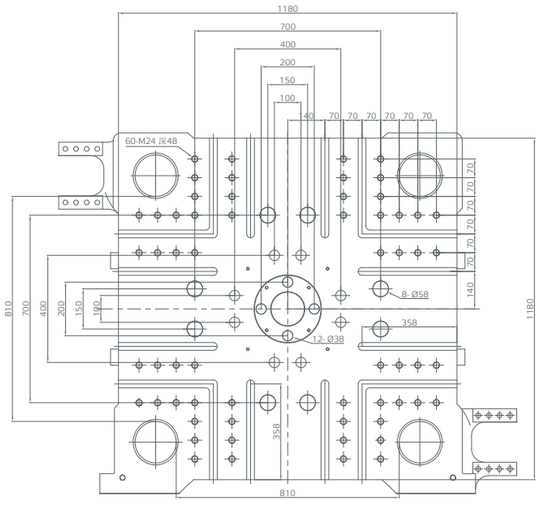
Front view of machine dimension



Top view of machine dimension

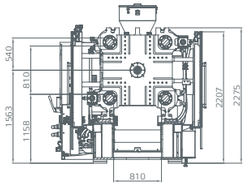


Moving platen dimension

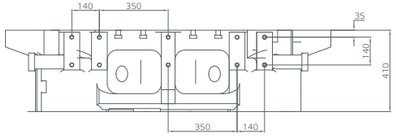


Unit:mm

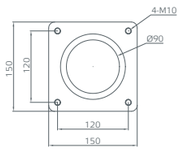
Robot installation dimension



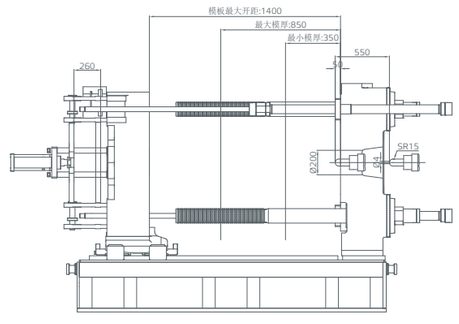
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO·HII

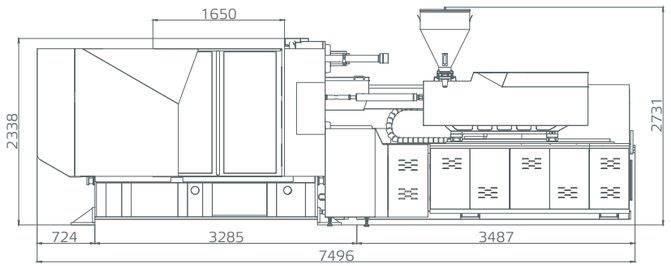
Parameters

Clamping unit	Unit	NEO·H550II		
Clamping force	kN	5500		
Clamping stroke	mm	1300/750		
Space between tie bars	mm	920×830		
Max. mold height	mm	900		
Min. mold height	mm	350		
Ejector stroke	mm	260		
Ejector force	kN	182		
No. of ejector pins	piece	11		
Max. daylight	mm	1650		
Min. mold dimension	mm	640×580		
Platen dimensions (HxV)	mm	1275×1275		
Injection unit	Unit	i3800		
		A	B	C
Screw diameter	mm	75	80	85
Screw L/D ratio	L/D	23.5	22.0	20.7
Shot size (theoretical)	cm³	1785	2031	2293
Injection weight (PS)	g	1624	1848	2086
Injection pressure	MPa	205.3	180.5	159.9
Injection rate into air	g/s	496	565	638
Screw speed	rpm	165		
Max. injection speed	mm/s	123		
Injection stroke	mm	404		
Others	Unit	i3800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	40+40		
Heater power	kW	37 / 46		
Hopper capacity	kg	50		
Oil tank volume	L	590		
Machine dimension(LxWxH)	m	7.5X2.5X2.8		

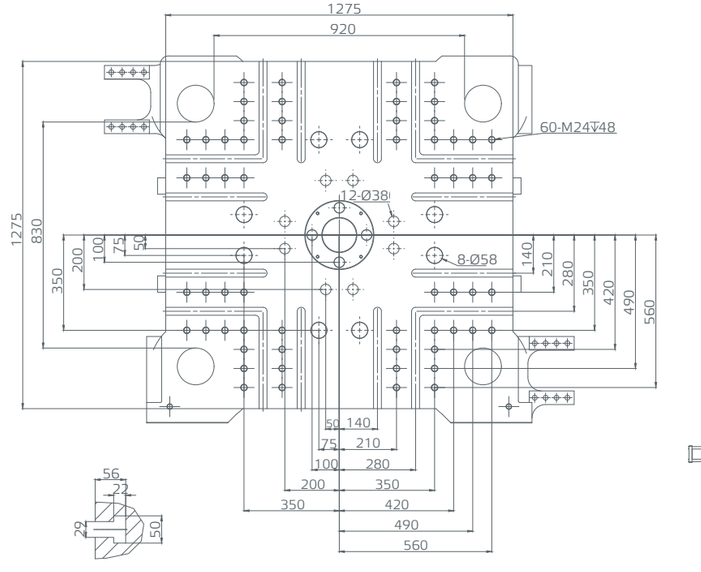
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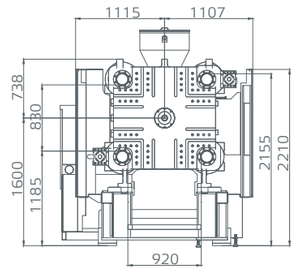
Front view of machine dimension



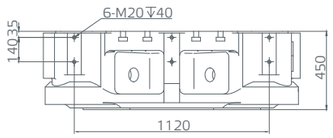
Top view of machine dimension



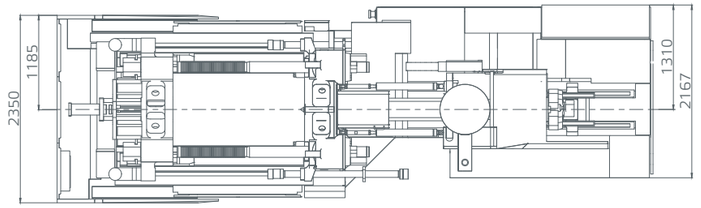
Robot installation dimension



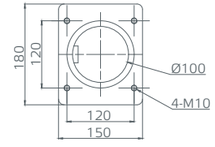
Robot fixed platen dimension



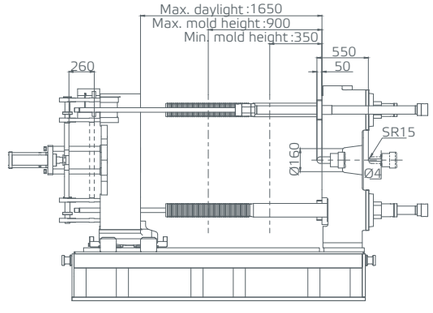
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

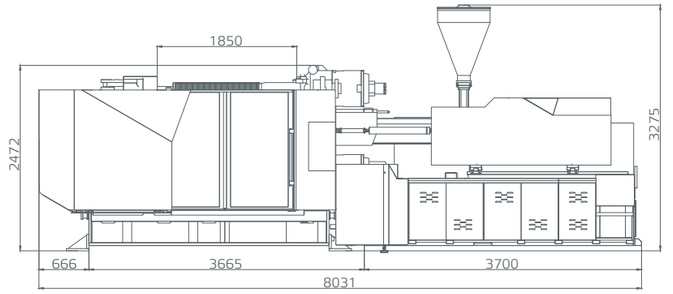
Parameters

Clamping unit	Unit	NEO·H710II					
Clamping force	kN	7100					
Clamping stroke	mm	1400/900					
Space between tie bars	mm	1100×960					
Max. mold height	mm	950					
Min. mold height	mm	450					
Ejector stroke	mm	300					
Ejector force	kN	182					
No. of ejector pins	piece	11					
Max. daylight	mm	1850					
Min. mold dimension	mm	770×670					
Platen dimensions (HxV)	mm	1500×1400					
Injection unit	Unit	¡4800			¡5800		
		A	B	C	A	B	C
Screw diameter	mm	80	85	90	85	90	100
Screw L/D ratio	L/D	23.4	22.0	20.8	23.3	22.0	19.8
Shot size (theoretical)	cm³	2242	2531	2837	2684	3009	3715
Injection weight (PS)	g	2040	2303	2582	2442	2738	3381
Injection pressure	MPa	204.4	181.1	161.5	202.9	180.9	146.6
Injection rate into air	g/s	548	619	694	627	703	868
Screw speed	rpm	150			126		
Max. injection speed	mm/s	120			121		
Injection stroke	mm	446			473		
Others	Unit	¡4800			¡5800		
Max. pump pressure	MPa	17.5			17.5		
Pump motor power	kW	51+40			61+40		
Heater power	kW	39 / 48			44/ 55		
Hopper capacity	kg	100			100		
Oil tank volume	L	710			800		
Machine dimension(LxWxH)	m	8.1X2.7X3.3			8.1X2.7X3.3		

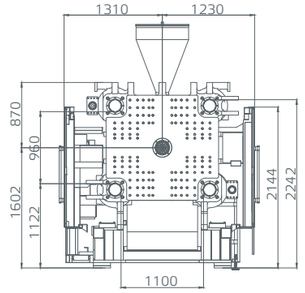
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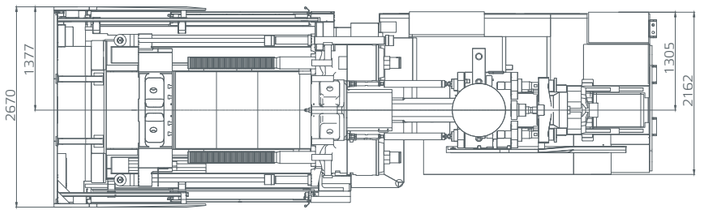
Front view of machine dimension



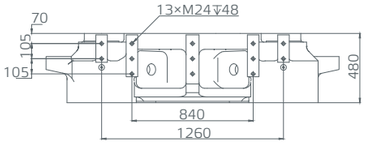
Robot installation dimension



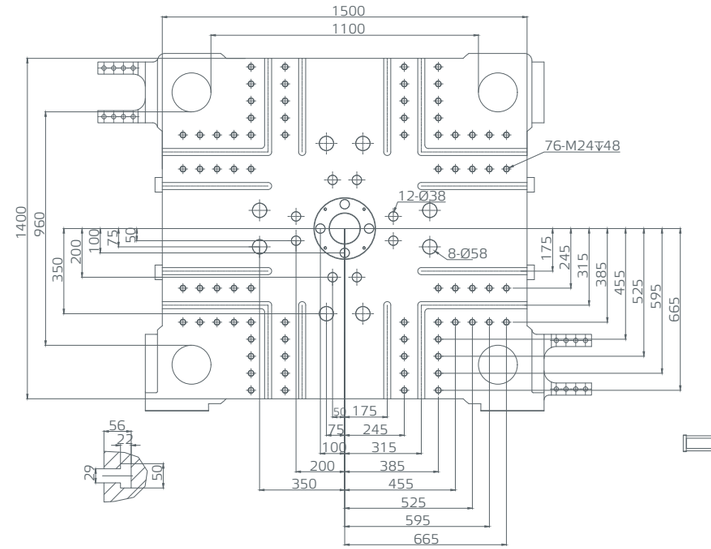
Top view of machine dimension



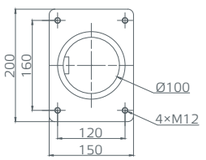
Robot fixed platen dimension



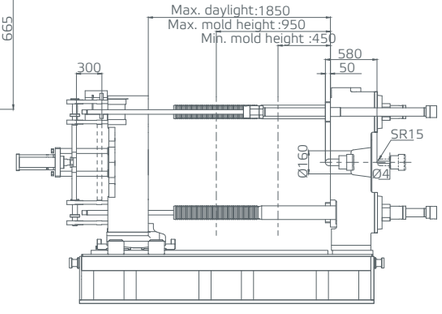
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

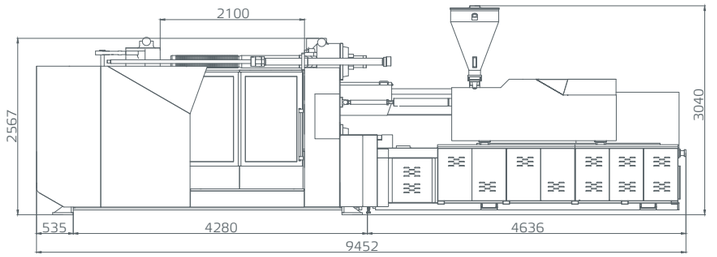
Parameters

Clamping unit	Unit	NEO·H900II					
Clamping force	kN	9000					
Clamping stroke	mm	1600/1000					
Space between tie bars	mm	1170×1000					
Max. mold height	mm	1100					
Min. mold height	mm	500					
Ejector stroke	mm	350					
Ejector force	kN	260					
No. of ejector pins	piece	11					
Max. daylight	mm	2100					
Min. mold dimension	mm	820×700					
Platen dimensions (HxV)	mm	1560×1520					
Injection unit	Unit	i5800			i7500		
		A	B	C	A	B	C
Screw diameter	mm	85	90	100	90	100	110
Screw L/D ratio	L/D	23.3	22.0	19.8	24.4	22.0	20.0
Shot size (theoretical)	cm³	2684	3009	3715	3276	4045	4894
Injection weight (PS)	g	2442	2738	3381	2981	3681	4454
Injection pressure	MPa	202.9	180.9	146.6	222.4	180.2	148.9
Injection rate into air	g/s	627	703	868	708	874	1057
Screw speed	rpm	126			112		
Max. injection speed	mm/s	121			122		
Injection stroke	mm	473			515		
Others	Unit	i5800			i7500		
Max. pump pressure	MPa	17.5			17.5		
Pump motor power	kW	61+40			40x2+40		
Heater power	kW	44/ 55			56/ 69		
Hopper capacity	kg	100			100		
Oil tank volume	L	800			980		
Machine dimension(LxWxH)	m	9.5X2.9X3.05			9.5X2.9X3.05		

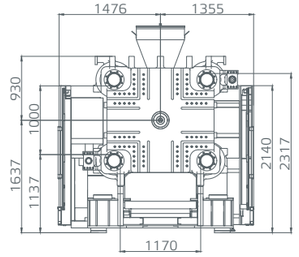
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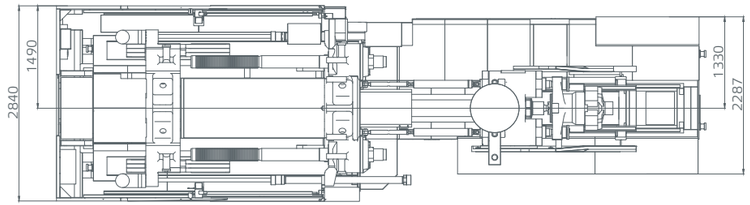
Front view of machine dimension



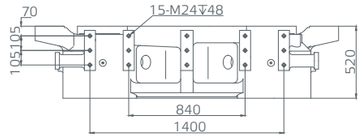
Robot installation dimension



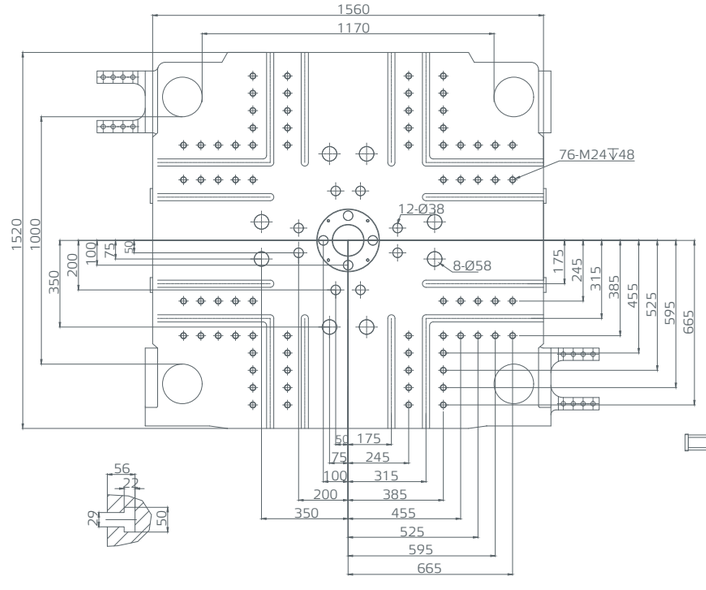
Top view of machine dimension



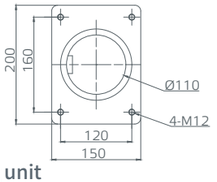
Robot fixed platen dimension

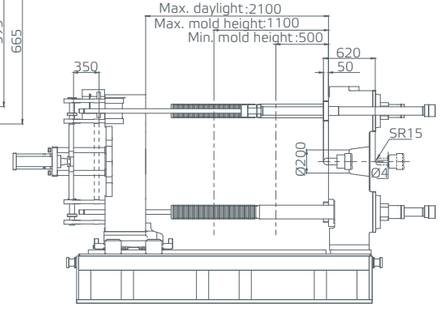


Moving platen dimension



Clamping unit





Feeding port dimensions

Unit：mm

NEO·HII

Parameters

Clamping unit	Unit	NEO·H1080II
Clamping force	kN	10800
Clamping stroke	mm	1900/1200
Space between tie bars	mm	1460x1175
Max. mold height	mm	1200
Min. mold height	mm	500
Ejector stroke	mm	350
Ejector force	kN	260
No. of ejector pins	piece	13
Max. daylight	mm	2400
Min. mold dimension	mm	880×825
Platen dimensions (HxV)	mm	1830×1730

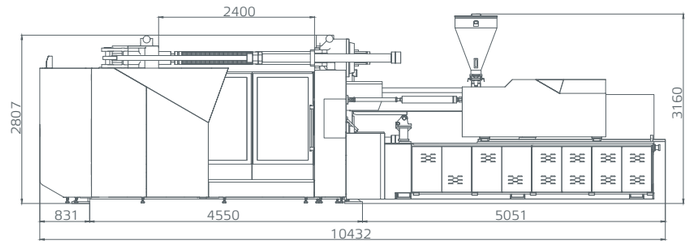
Injection unit	Unit	*i*7500			*i*9500		
		A	B	C	A	B	C
Screw diameter	mm	90	100	110	100	110	120
Screw L/D ratio	L/D	24.4	22.0	20.0	24.2	22.0	20.2
Shot size (theoretical)	cm³	3276	4045	4894	4320	5227	6220
Injection weight (PS)	g	2981	3681	4454	3931	4756	5661
Injection pressure	MPa	222.4	180.2	148.9	212.8	175.9	147.8
Injection rate into air	g/s	708	874	1057	740	895	1065
Screw speed	rpm	112			112		
Max. injection speed	mm/s	122			104		
Injection stroke	mm	515			550		

Others	Unit	*i*7500	*i*9500
Max. pump pressure	MPa	17.5	17.5
Pump motor power	kW	40x2+40	40x2+40
Heater power	kW	56/ 69	63/ 78
Hopper capacity	kg	100	100
Oil tank volume	L	980	1100
Machine dimension(LxWxH)	m	10.5X3.4X3.2	10.5X3.4X3.2

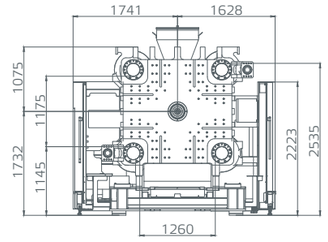
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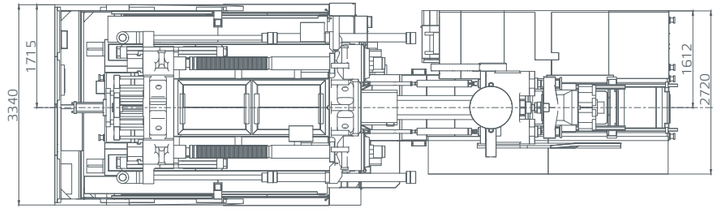
Front view of machine dimension



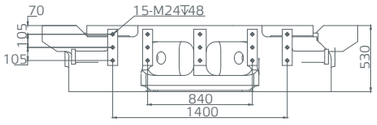
Robot installation dimension



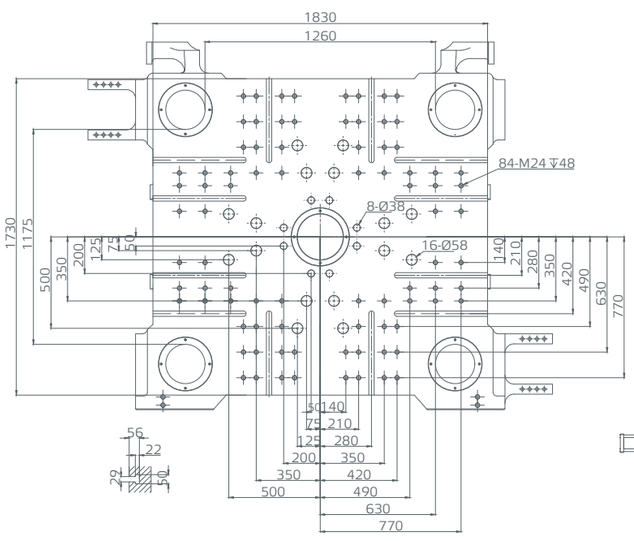
Top view of machine dimension



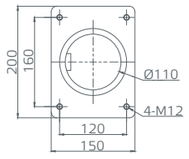
Robot fixed platen dimension



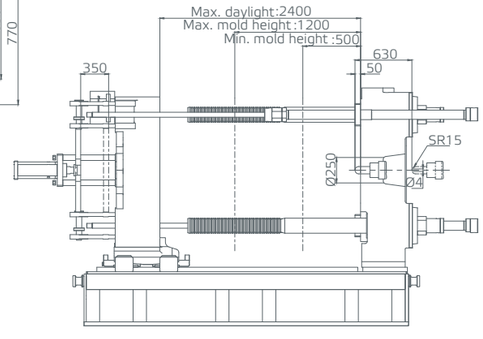
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

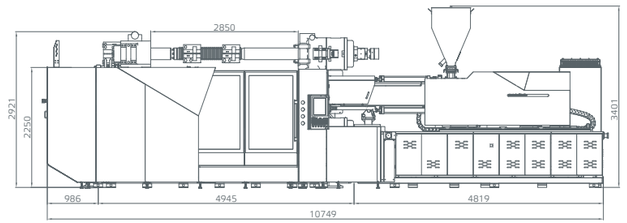
Parameters

Clamping unit	Unit	NEO·H1300II					
Clamping force	kN	13000					
Clamping stroke	mm	2250/1500					
Space between tie bars	mm	1400×1280					
Max. mold height	mm	1350					
Min. mold height	mm	600					
Ejector stroke	mm	350					
Ejector force	kN	260					
No. of ejector pins	piece	13					
Max. daylight	mm	2850					
Min. mold dimension	mm	980×896					
Platen dimensions (HxV)	mm	1910×1800					
Injection unit	Unit	¿9500			¿10600		
		A	B	C	A	B	C
Screw diameter	mm	100	110	120	110	120	130
Screw L/D ratio	L/D	24.2	22.0	20.2	24.0	22.0	20.3
Shot size (theoretical)	cm^3	4320	5227	6220	5312	6322	7420
Injection weight (PS)	g	3931	4756	5661	4834	5753	6752
Injection pressure	MPa	212.8	175.9	147.8	191.8	161.1	137.3
Injection rate into air	g/s	740	895	1065	1026	1221	1433
Screw speed	rpm	112			109		
Max. injection speed	mm/s	104			119		
Injection stroke	mm	550			559		
Others	Unit	¿9500			¿10600		
Max. pump pressure	MPa	17.5			17.5		
Pump motor power	kW	40x2+40			51x2+61		
Heater power	kW	63/78			80		
Hopper capacity	kg	100			100		
Oil tank volume	L	1100			1400		
Machine dimension(LxWxH)	m	10.5X3.4X3.2			11.3*4.1*4.1		

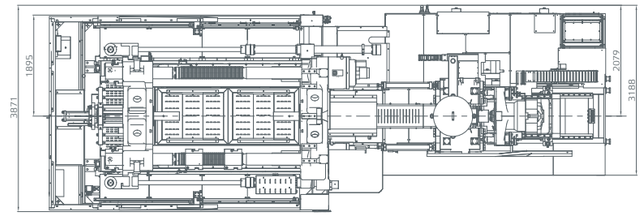
Remarks:
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Theoretical capacity is the calculated volume of injection produced by the cross-sectional area of the screw/plunger and the injection stroke
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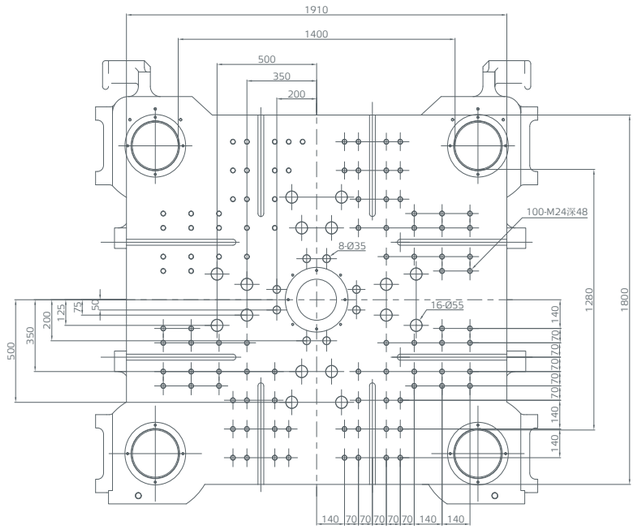
Front view of machine dimension



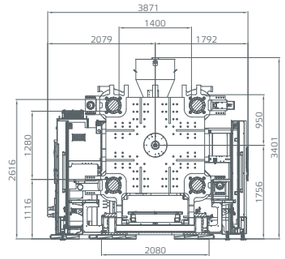
Top view of machine dimension



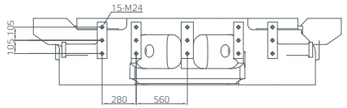
Moving platen dimension



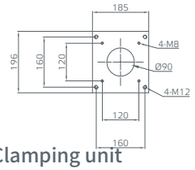
Robot installation dimension



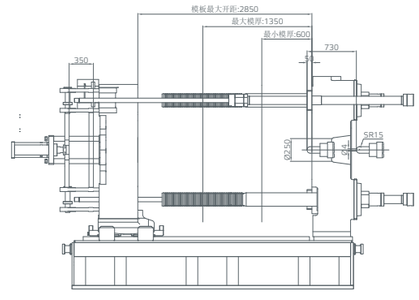
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

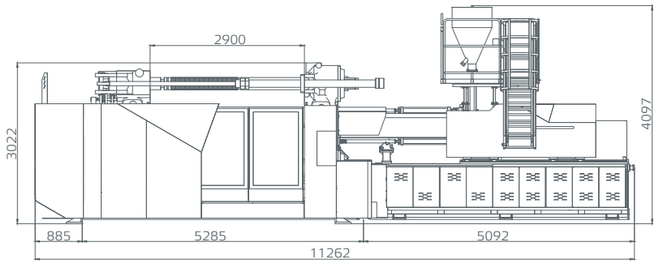
Parameters

Clamping unit	Unit	NEO·H1400II		
Clamping force	kN	14000		
Clamping stroke	mm	2200/1450		
Space between tie bars	mm	1460×1360		
Max. mold height	mm	1450		
Min. mold height	mm	700		
Ejector stroke	mm	350		
Ejector force	kN	300		
No. of ejector pins	piece	13		
Max. daylight	mm	2900		
Min. mold dimension	mm	1020×950		
Platen dimensions (HxV)	mm	1980×1880		
Injection unit	Unit	¿10600		
		A	B	C
Screw diameter	mm	110	120	130
Screw L/D ratio	L/D	24.0	22.0	20.3
Shot size (theoretical)	cm³	5312	6322	7420
Injection weight (PS)	g	4834	5753	6752
Injection pressure	MPa	191.8	161.1	137.3
Injection rate into air	g/s	1026	1221	1433
Screw speed	rpm	109		
Max. injection speed	mm/s	119		
Injection stroke	mm	559		
Others	Unit	¿10600		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	51x2+61		
Heater power	kW	80		
Hopper capacity	kg	100		
Oil tank volume	L	1400		
Machine dimension(LxWxH)	m	11.3*4.1*4.1		

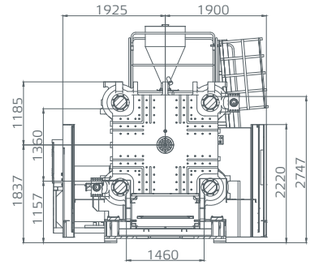
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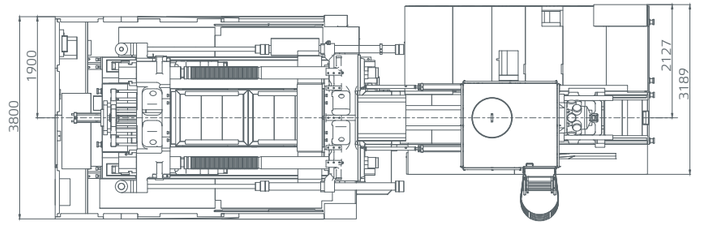
Front view of machine dimension



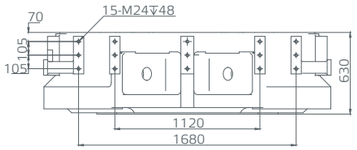
Robot installation dimension



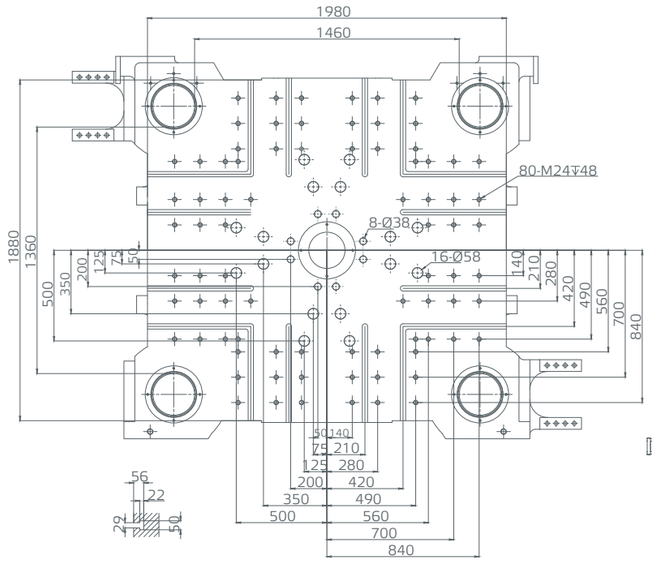
Top view of machine dimension



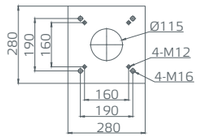
Robot fixed platen dimension



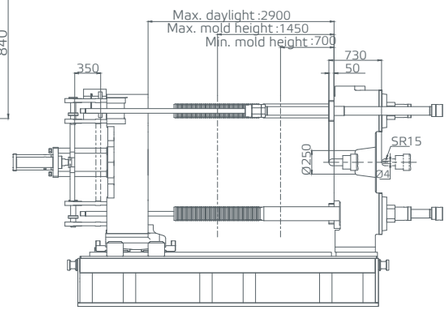
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

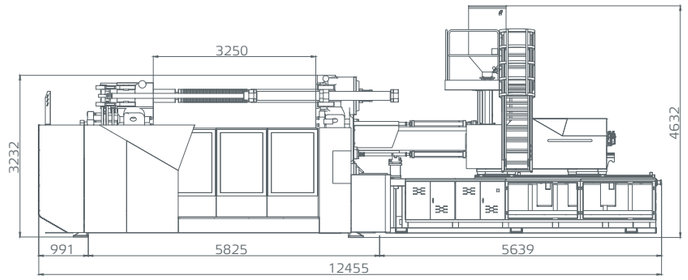
Parameters

Clamping unit	Unit	NEO·H1700II		
Clamping force	kN	17000		
Clamping stroke	mm	2550/1650		
Space between tie bars	mm	1570×1380		
Max. mold height	mm	1600		
Min. mold height	mm	700		
Ejector stroke	mm	400		
Ejector force	kN	430		
No. of ejector pins	piece	13		
Max. daylight	mm	3250		
Min. mold dimension	mm	1100×965		
Platen dimensions (HxV)	mm	2240×2040		
Injection unit	Unit	i15800		
		A	B	C
Screw diameter	mm	130	140	150
Screw L/D ratio	L/D	23.7	22.0	20.5
Shot size (theoretical)	cm³	8482	9837	11292
Injection weight (PS)	g	7718	8951	10276
Injection pressure	MPa	190.5	164.3	143.1
Injection rate into air	g/s	1192	1382	1587
Screw speed	rpm	90		
Max. injection speed	mm/s	99		
Injection stroke	mm	639		
Others	Unit	i15800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	61x2+61		
Heater power	kW	104		
Hopper capacity	kg	200		
Oil tank volume	L	1800		
Machine dimension(LxWxH)	m	12.5X4.0X4.7		

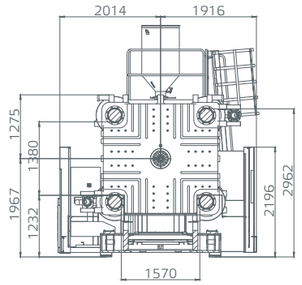
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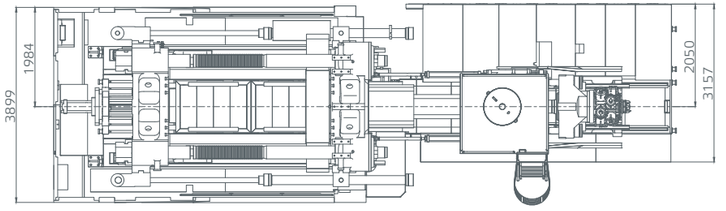
Front view of machine dimension



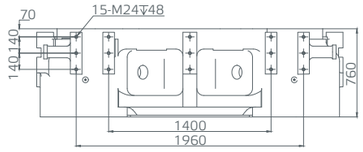
Robot installation dimension



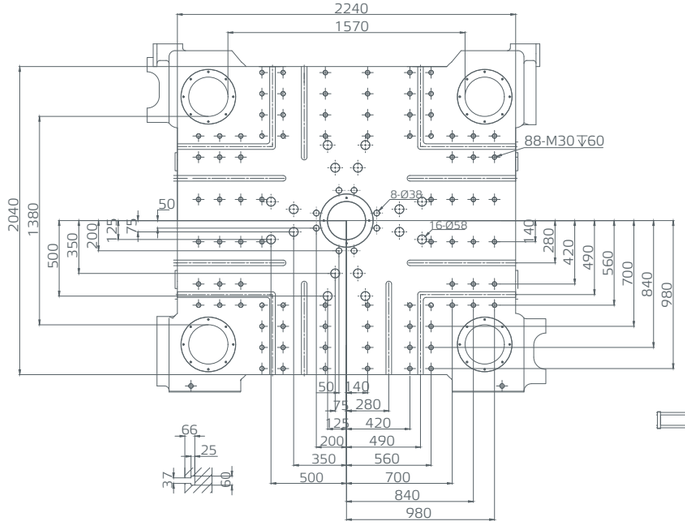
Top view of machine dimension



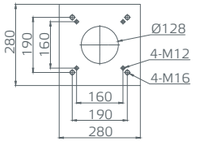
Robot fixed platen dimension



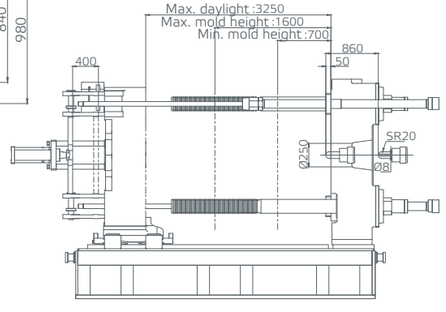
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

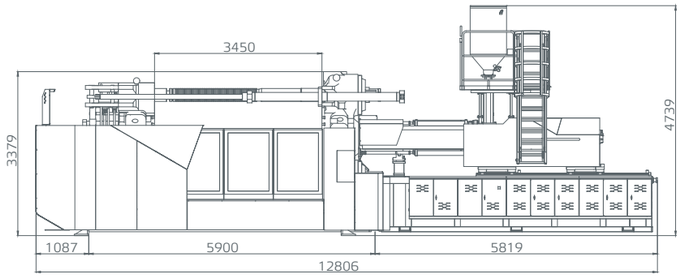
Parameters

Clamping unit	Unit	NEO·H2000II		
Clamping force	kN	20000		
Clamping stroke	mm	2750/1750		
Space between tie bars	mm	1850×1500		
Max. mold height	mm	1700		
Min. mold height	mm	700		
Ejector stroke	mm	400		
Ejector force	kN	430		
No. of ejector pins	piece	13		
Max. daylight	mm	3450		
Min. mold dimension	mm	1295×1050		
Platen dimensions (HxV)	mm	2500×2110		
Injection unit	Unit	i15800		
		A	B	C
Screw diameter	mm	130	140	150
Screw L/D ratio	L/D	23.7	22.0	20.5
Shot size (theoretical)	cm³	8482	9837	11292
Injection weight (PS)	g	7718	8951	10276
Injection pressure	MPa	190.5	164.3	143.1
Injection rate into air	g/s	1192	1382	1587
Screw speed	rpm	90		
Max. injection speed	mm/s	99		
Injection stroke	mm	639		
Others	Unit	i15800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	61x2+61		
Heater power	kW	104		
Hopper capacity	kg	200		
Oil tank volume	L	1800		
Machine dimension(LxWxH)	m	12.8x4.2x4.8		

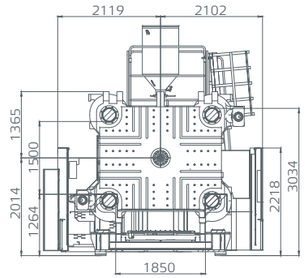
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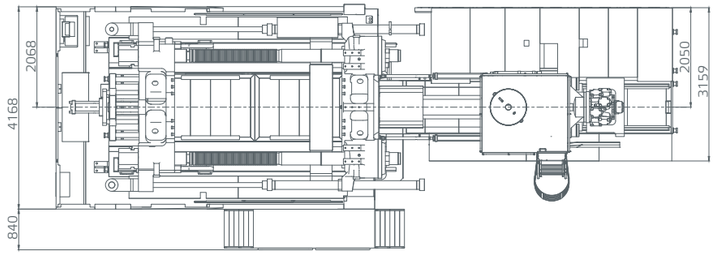
Front view of machine dimension



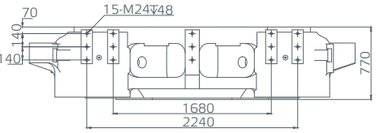
Robot installation dimension



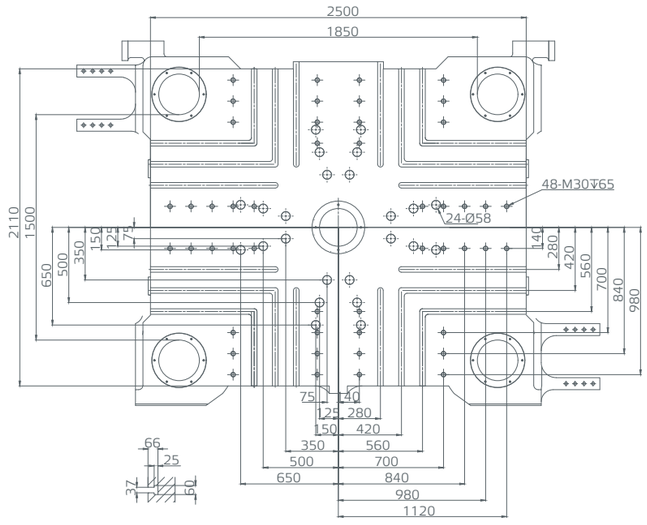
Top view of machine dimension



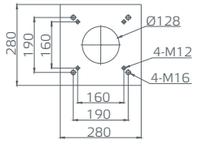
Robot fixed platen dimension



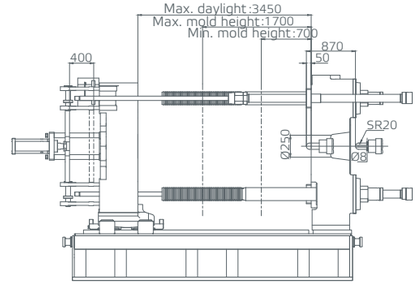
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

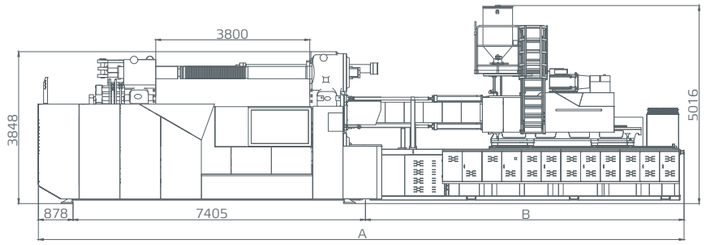
Parameters

Clamping unit	Unit	NEO·H2400II							
Clamping force	kN	24000							
Clamping stroke	mm	3000/2000							
Space between tie bars	mm	2020×1620							
Max. mold height	mm	1800							
Min. mold height	mm	800							
Ejector stroke	mm	500							
Ejector force	kN	430							
No. of ejector pins	piece	15							
Max. daylight	mm	3800							
Min. mold dimension	mm	1415×1135							
Platen dimensions (HxV)	mm	2790×2430							
Injection unit	Unit	*i* 22300				*i* 41000			
		A	B	C	D	A	B	C	D
Screw diameter	mm	140	150	160	170	170	180	190	200
Screw L/D ratio	L/D	23.6	22.0	20.6	19.4	23.3	22.0	20.8	19.8
Shot size (theoretical)	cm³	10576	12140	13813	15594	22698	25447	28353	31416
Injection weight (PS)	g	9624	11048	12570	14190	20655	23157	25801	28588
Injection pressure	MPa	216.0	188.1	165.3	146.5	182.6	162.9	146.2	132.0
Injection rate into air	g/s	1507	1730	1968	2221	1685	1889	2105	2331
Screw speed	rpm	99				79			
Max. injection speed	mm/s	108				82			
Injection stroke	mm	687				1000			
Others	Unit	*i* 22300				*i* 41000			
Max. pump pressure	MPa	18.5				17.5			
Pump motor power	kW	61x3+61				61x3+61			
Heater power	kW	146				159			
Hopper capacity	kg	200				400			
Oil tank volume	L	2000				2000			
Machine dimension(LxWxH)	m	15.9X4.7X5				16.4x4.7x5			

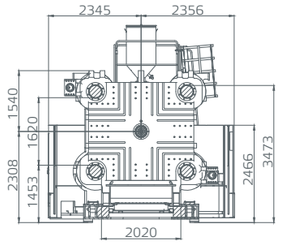
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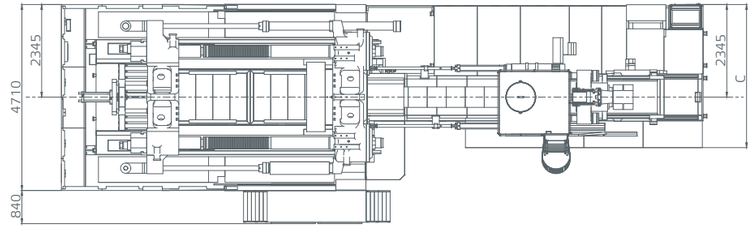
Front view of machine dimension



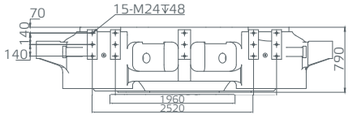
Robot installation dimension



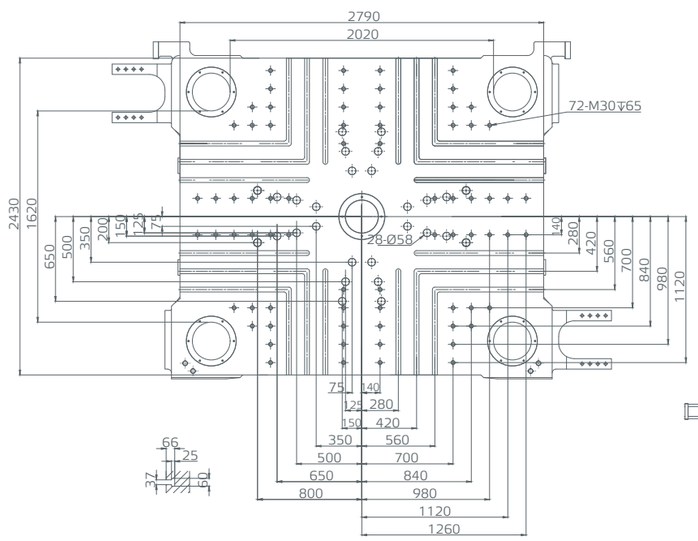
Top view of machine dimension



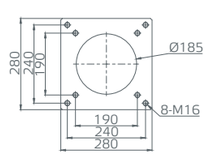
Robot fixed platen dimension



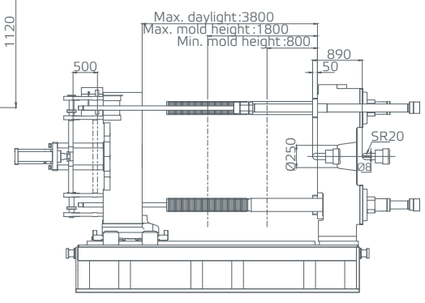
Moving platen dimension



Feeding port dimensions



Clamping unit



Injection unit	A	B	C
*i*22300	15883	7600	3244
*i*41000	16354	8071	3625

Unit：mm

NEO·HII

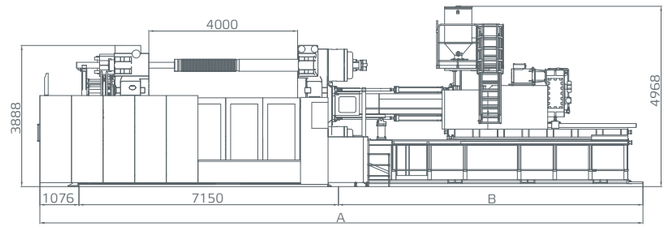
Parameters

Clamping unit	Unit	NEO·H2850II											
Clamping force	kN	28500											
Clamping stroke	mm	3200/2000											
Space between tie bars	mm	2020×1800											
Max. mold height	mm	2000											
Min. mold height	mm	800											
Ejector stroke	mm	500											
Ejector force	kN	560											
No. of ejector pins	piece	15											
Max. daylight	mm	4000											
Min. mold dimension	mm	1414×1260											
Platen dimensions (HxV)	mm	2800×2720											
Injection unit	Unit	*i* 22300				*i* 41000				*i* 66600			
		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	140	150	160	170	170	180	190	200	200	210	220	230
Screw L/D ratio	L/D	23.6	22.0	20.6	19.4	23.3	22.0	20.8	19.8	23.1	22.0	21.0	20.1
Shot size (theoretical)	cm³	10576	12140	13813	15594	22698	25447	28353	31416	39553	43607	47859	52308
Injection weight (PS)	g	9624	11048	12570	14190	20655	23157	25801	28588	35993	39682	43552	47600
Injection pressure	MPa	216.0	188.1	165.3	146.5	182.6	162.9	146.2	132	187.2	169.8	154.7	141.5
Injection rate into air	g/s	1507	1730	1968	2221	2127	2385	2657	2944	2076	2289	2512	2745
Screw speed	rpm	99				79				62			
Max. injection speed	mm/s	108				103				73			
Injection stroke	mm	687				1000				1259			
Others	Unit	*i* 22300				*i* 41000				*i* 66600			
Max. pump pressure	MPa	18.5				17.5				17.5			
Pump motor power	kW	61x3+51+80				61x3+51+80				61x3+51+80			
Heater power	kW	146				159				232			
Hopper capacity	kg	200				400				400			
Oil tank volume	L	2600				2600				2600			
Machine dimension(LxWxH)	m	16x4.8x5.02				16.3x4.8x5.02				17.8x4.8x5.02			

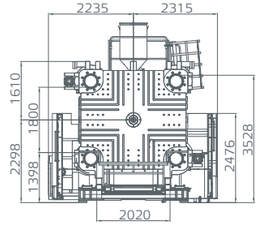
Remarks:
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Theoretical capacity is the calculated volume of injection produced by the cross-sectional area of the screw/plunger and the injection stroke
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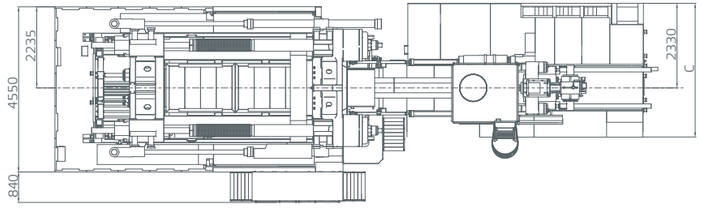
Front view of machine dimension



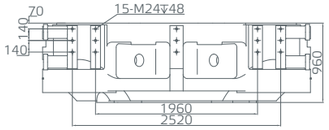
Robot installation dimension



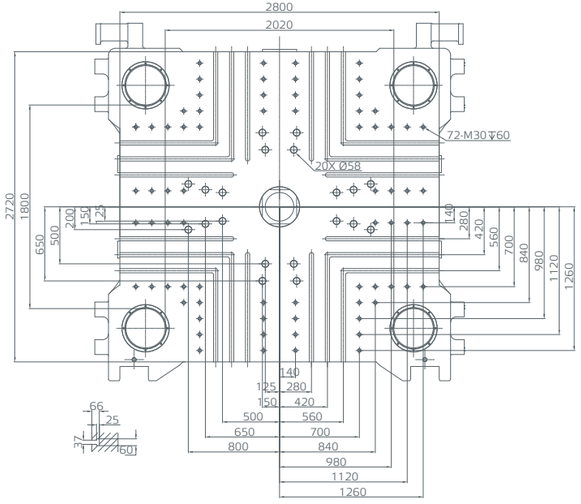
Top view of machine dimension



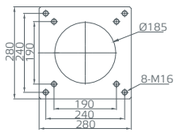
Robot fixed platen dimension



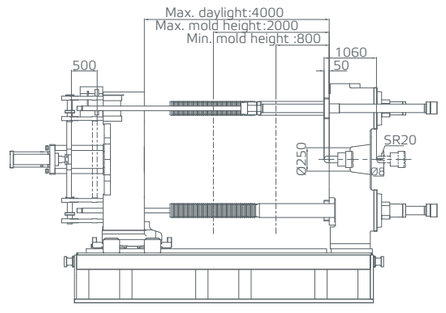
Moving platen dimension



Feeding port dimensions



Clamping unit



Injection unit	A	B	C
*i*22300	15826	7600	3244
*i*41000	16297	8071	3625
*i*66600	17789	9563	3614

Unit：mm

NEO·HII

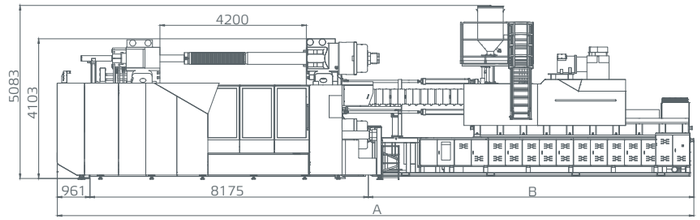
Parameters

Clamping unit	Unit	NEO·H3500II							
Clamping force	kN	35000							
Clamping stroke	mm	3200/2000							
Space between tie bars	mm	2270×1900							
Max. mold height	mm	2200							
Min. mold height	mm	1000							
Ejector stroke	mm	560							
Ejector force	kN	560							
No. of ejector pins	piece	17							
Max. daylight	mm	4200							
Min. mold dimension	mm	1590×1330							
Platen dimensions (HxV)	mm	3100×2840							
Injection unit	Unit	*i* 22300				*i* 66600			
		A	B	C	D	A	B	C	D
Screw diameter	mm	140	150	160	170	200	210	220	230
Screw L/D ratio	L/D	23.6	22.0	20.6	19.4	23.1	22.0	21.0	20.1
Shot size (theoretical)	cm³	10576	12140	13813	15594	39553	43607	47859	52308
Injection weight (PS)	g	9624	11048	12570	14190	35993	39682	43552	47600
Injection pressure	MPa	216.0	188.1	165.3	146.5	187.2	169.8	154.7	141.5
Injection rate into air	g/s	1507	1730	1968	2261	2076	2289	2512	2745
Screw speed	rpm	99				62			
Max. injection speed	mm/s	108				73			
Injection stroke	mm	687				1259			
Others	Unit	*i* 22300				*i* 66600			
Max. pump pressure	MPa	18.5				17.5			
Pump motor power	kW	61x3+51+80				61x3+51+80			
Heater power	kW	146				232			
Hopper capacity	kg	200				400			
Oil tank volume	L	2600				2600			
Machine dimension(LxWxH)	m	16.8x5.5x5.1				18.7x5.5x5.1			

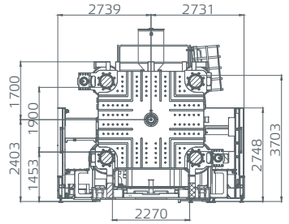
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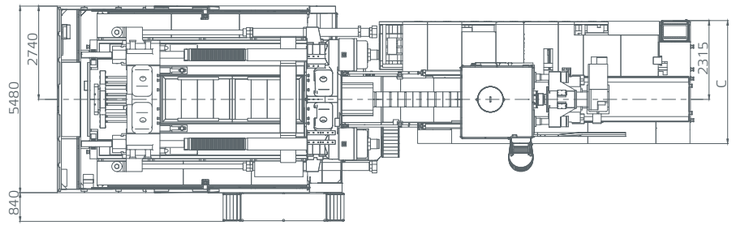
Front view of machine dimension



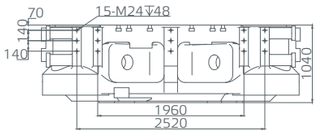
Robot installation dimension



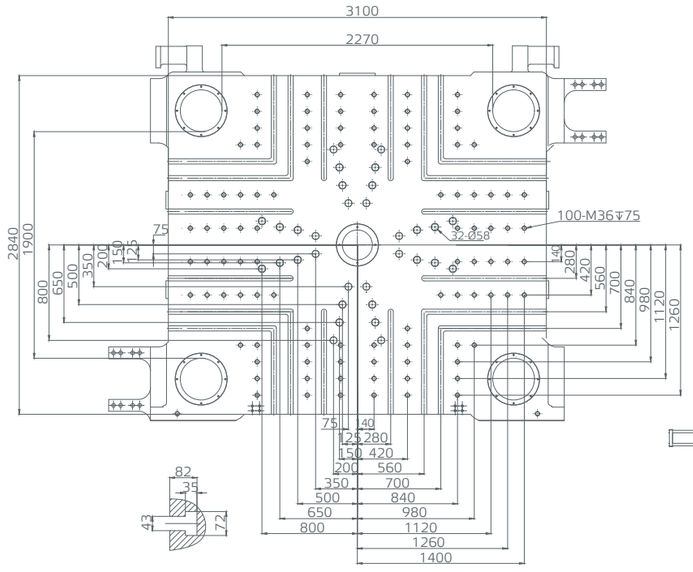
Top view of machine dimension



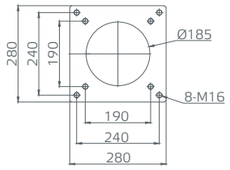
Robot fixed platen dimension



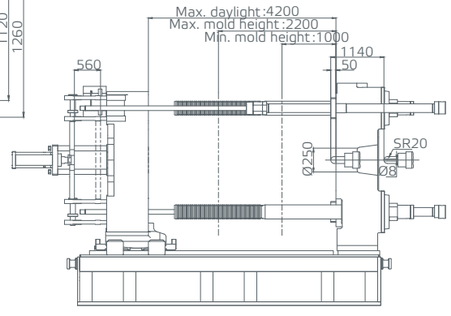
Moving platen dimension



Feeding port dimensions



Clamping unit



Injection unit	A	B	C
*i*22300	16736	7600	3244
*i*66600	18699	9563	3614

Unit:mm

NEO·HII

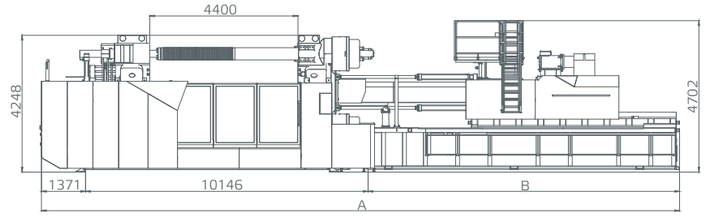
Parameters

Clamping unit	Unit	NEO·H4500II					
Clamping force	kN	45000					
Clamping stroke	mm	3400/2000					
Space between tie bars	mm	2420×2020					
Max. mold height	mm	2400					
Min. mold height	mm	1000					
Ejector stroke	mm	560					
Ejector force	kN	560					
No. of ejector pins	piece	17					
Max. daylight	mm	4400					
Min. mold dimension	mm	1695×1415					
Platen dimensions (HxV)	mm	3350×2990					
Injection unit	Unit	*i* 66600				*i* 108000	
		A	B	C	D	A	B
Screw diameter	mm	200	210	220	230	250	260
Screw L/D ratio	L/D	23.1	22.0	21.0	20.1	22.9	22.0
Shot size (theoretical)	cm³	39553	43607	47859	52308	62783	67906
Injection weight (PS)	g	35993	39682	43552	47600	57132	61794
Injection pressure	MPa	187.2	169.8	154.7	141.5	172.0	159.1
Injection rate into air	g/s	2777	3061	3360	3672	2762	2987
Screw speed	rpm	62				47	
Max. injection speed	mm/s	97				62	
Injection stroke	mm	1259				1279	
Others	Unit	*i* 66600				*i* 108000	
Max. pump pressure	MPa	17.5				16	
Pump motor power	kW	61x3+51X3+80				61x3+51X3+80	
Heater power	kW	232				374	
Hopper capacity	kg	400				400	
Oil tank volume	L	3600				3600	
Machine dimension(LxWxH)	m	21.1x5.5x5.3				22.8x5.5x5.3	

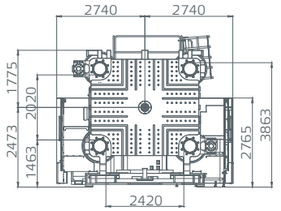
Remarks:
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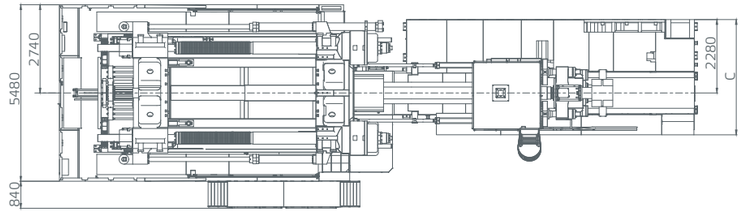
Front view of machine dimension



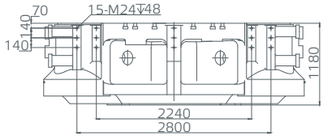
Robot installation dimension



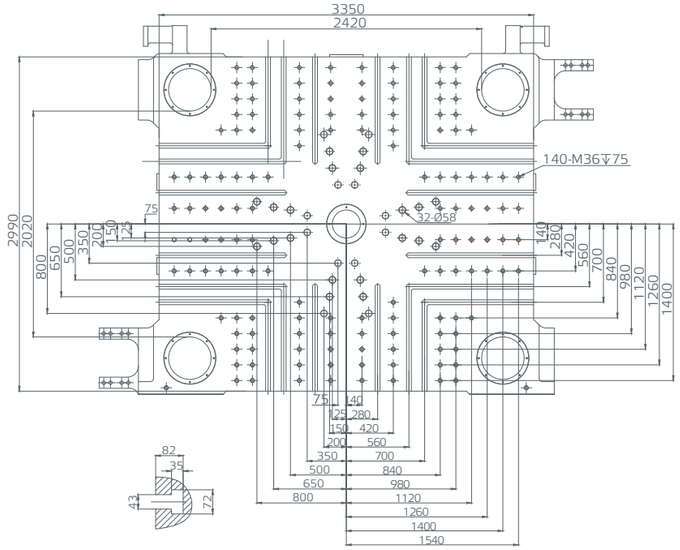
Top view of machine dimension



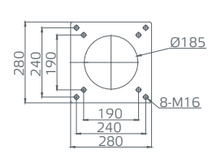
Robot fixed platen dimension



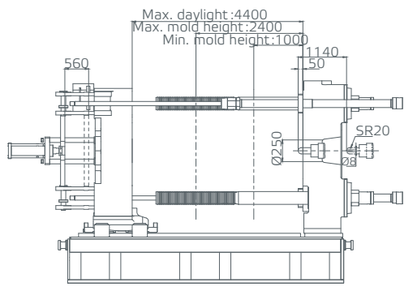
Moving platen dimension



Feeding port dimensions



Clamping unit



Injection unit	A	B	C
*i*22300	19117	7600	3244
*i*66600	21080	9563	3614
*i*108000	22757	11240	3579

Unit:mm

NEO·HII

Components & functions list

For clamping

Function description /Clamping unit	NEO·H480II-NEO·H900II	NEO·H1080II-NEO·H4500II
Platen with tapped holes	○	○
Platen with T slots	●	●
Platen (according to EUROMAP 2)	○	○
High rigid two-platen clamping unit	●	●
Mechanical safety	○	○
Electrical safety	●	●
Hydraulic safety	●	●
Auto-mold height adjustment function	●	●
Mold open, closing and mold adjusting are controlled by transducer	●	●
Fix-quantity type auto central lubrication system	●	●
Mechanical adjust support for moving platen	●	●
High rigidity steel wear strips for moving platen	●	●
Auto safety door	○	●
EUROMAP 18 robot interface	●	●
Magnetic platen	○	○
Hydraulic/electrical unscrew device	○	○
Widened door and covers	○	○
Safety pressure plate under mold area	○	●
Two water regulation manifolds	●	●
Quick coupling for water regulator	●	●
Two air blow circuits	●	●
Four air blow circuits	○	○
Glass water flow regulators	○	○
Self-lock valve for locking	●	●
Buffer lock brake control	●	●

● Standard ○ Optional

For injection

Function description/ Injection unit	i2500-i5800	i7500-i10600	i15800	i22300	i41000-i108000
Standard screw	●	●	●	●	●
Other screw	○	○	○	○	○
Shut off nozzle	○	○	○	○	○
Double cylinder injection	●	●	●	●	●
Double carriage cylinders	●	●	●	●	●
Transducer control for carriage	●	●	●	●	●
Screw rotating speed display	●	●	●	●	●
Plasticizing with hydraulic motor	●	●	●	○	○
Electrical plasticizing	○	○	○	●	●
Proportional back pressure contro	●	●	●	●	●
Closed-loop control of the temperature at the discharge port	●	●	●	●	●
Barrel Insulation cover	●	●	●	●	●
Nozzle cover	●	●	●	●	●
Self-lock valve for carriage forward	●	●	●	●	●
Material loading platform	○	○	●	●	●
Carriage central lubrication device	●	●	●	●	●
Carriage central auto lubrication device	○	○	○	○	○
Stainless heater bands	●	○	○	○	○
Ceramic heater band	○	●	●	●	●
Screw mobile feed hopper	●	●	○	○	○
Gas-assisted injection interface	○	○	○	○	○
Foam moulding	○	○	○	○	○
Hopper dryer	○	○	○	○	○
Stainless hopper	●	●	●	●	●
Barrel Insulation device	○	○	○	○	○

● Standard ○ Optional

NEO·HII

Components & functions list

For electric

Function description /Clamping unit	NEO·H480II-NEO·H900II	NEO·H1080II-NEO·H4500II
KEBA 15-inch touch screen	●	●
Memory with 200 sets of mold parameters	●	●
All action instant monitoring	●	●
Production monitoring	●	●
Failure alarm display	●	●
Changeover from injection fill to hold by injection pressure	○	○
I/O monitoring display	●	●
3 color light (with buzzer)	●	●
Motor overload protection	●	●
Front/back door emergency stop switch	●	●
5 pins socket of 380V/32A, 2 groups 5 pins socket of 380V/16A, 1 group 3 pins socket of 230V/16A, 1 group	●	●
Transformer for servomotor system	○	○
EUROMAP 13 neutron connection	●	●
EUROMAP 12 robot interface	●	●
EUROMAP 67 robot interface	○	○
Double protection for heating	●	●
Safety relay monitoring	●	●
SSR heating control	●	●
Hot runner control system & interface	○	○
Instant power consumption monitoring	○	○
Instant clamping force monitoring	●	●
230V/10A Industrial plug	●	●
Electrical cabinet lighting device	●	●
Remote control	○	○
Close-loop control for mold open/close	●	●
Safety pedal monitoring	○	●
Open-phase protection	●	●
Inspection of repair door	●	●

● Standard ○ Optional

For hydraulic

Function description / Injection unit	i2500-i22300	i41000-i108000
Fast response servo system	●	●
Increased motor-pump unit	○	○
Independent cooling system	●	●
Independent filtration system	●	●
Pressure control for Injection to hold on pressure	○	○
Programmable injection sequence	○	○
Fast injection with accumulator	○	○
Carriager self-lock valve	●	●
Proportional injection valve	○	○
Injection servo valve	○	○
Oil temp. detector	●	●
Oil level alarm	●	●
Anti-explosive chain	●	●
Self-lock suction oil filter	●	●
Control of oil temperature and cold water valve	●	●
Function description /Clamping unit	**NEO·H480II-NEO·H1080II**	**NEO·H1400II-NEO·H4500II**
Two core pull circuits on moving platen	●	
Two core pull circuit on moving platen, two core pull circuit on fixed	○	●
Sequence valve	○	○
Fast molding closing device	●	●
Quick clamping device	●	●
Ejector on-the-fly	●	●
Low pressure mold protection	●	●
Hydraulic safety device	●	●
Plasticize on-the-fly	○	○
Plasticizing & ejector on the fly	○	○
Proportional valve control for clamp open and close	●	●
Servo valve control for clamp open and close	○	○

● Standard ○ Optional

NEO·HII

Components & functions list

For other

Function description / Other	NEO·H480II-NEO·H2000II	NEO·H2400II-NEO·H4500II
Tederic standard color	●	●
Shock-proof pad	●	●
Foundation steel plate, Foundation anchor bolts	○	○
Spare parts box, tools, mould clamps, easy broken parts, extended nozzle, operation manual	●	●
High base	○	○
Robot	○	○
Magnet (for hopper dryer)	○	○
Chiller	○	○
Mould temp controller	○	○
Dehumidifier	○	○
Autoloader	○	○
Fumigated wooden packaging	○	○
With full-tank hydraulic oil	○	○
Products fetching platform		●

● Standard ○ Optional

NEO·HII

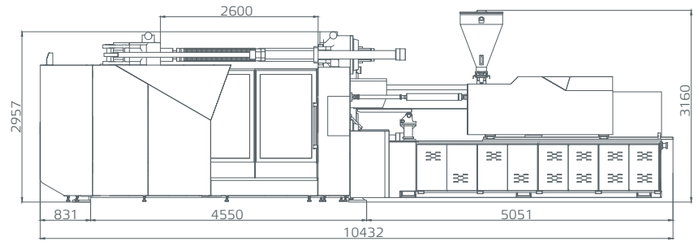
Parameters

Clamping unit	Unit	NEO·H1080II wp		
Clamping force	kN	10800		
Clamping stroke	mm	2000/1350		
Space between tie bars	mm	1460x1175		
Max. mold height	mm	1250		
Min. mold height	mm	600		
Ejector stroke	mm	350		
Ejector force	kN	260		
No. of ejector pins	piece	13		
Max. daylight	mm	2600		
Min. mold dimension	mm	1035×965		
Platen dimensions (HxV)	mm	1980×1880		
Injection unit	Unit	*i*9500		
		A	B	C
Screw diameter	mm	100	110	120
Screw L/D ratio	L/D	24.2	22.0	20.2
Shot size (theoretical)	cm³	4320	5227	6220
Injection weight (PS)	g	3931	4756	5661
Injection pressure	MPa	212.8	175.9	147.8
Injection rate into air	g/s	740	895	1065
Screw speed	rpm	112		
Max. injection speed	mm/s	104		
Injection stroke	mm	550		
Others	Unit	*i*9500		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	40x2+40		
Heater power	kW	63/78		
Hopper capacity	kg	100		
Oil tank volume	L	1100		
Machine dimension(LxWxH)	m	10.5x3.5x3.2		

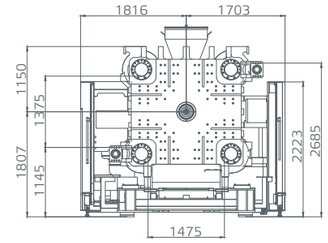
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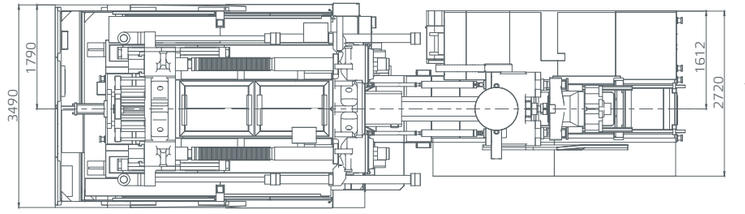
Front view of machine dimension



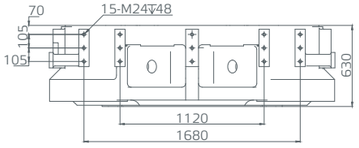
Robot installation dimension



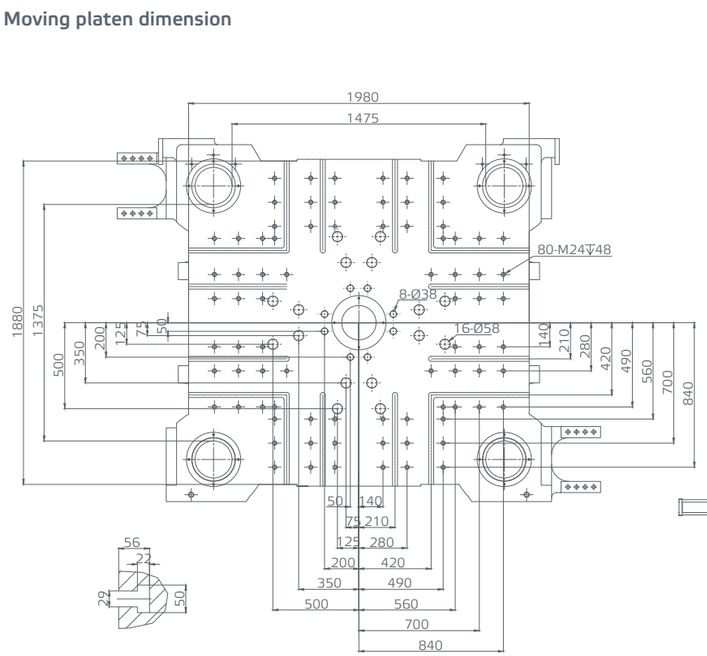
Top view of machine dimension



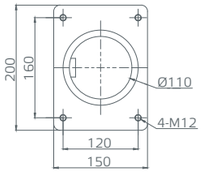
Robot fixed platen dimension



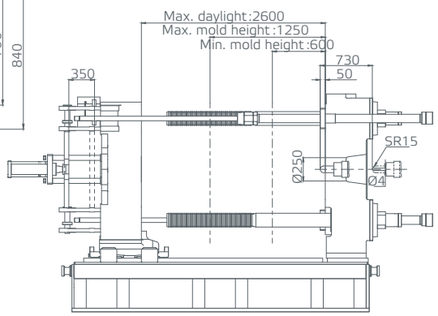
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

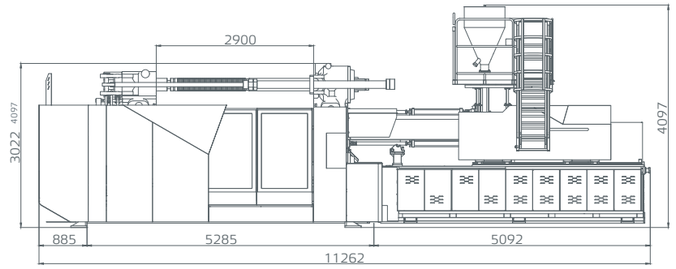
Parameters

Clamping unit	Unit	NEO·H1400II wp		
Clamping force	kN	14000		
Clamping stroke	mm	2300/1550		
Space between tie bars	mm	1600×1410		
Max. mold height	mm	1350		
Min. mold height	mm	600		
Ejector stroke	mm	350		
Ejector force	kN	300		
No. of ejector pins	piece	13		
Max. daylight	mm	2900		
Min. mold dimension	mm	1120×990		
Platen dimensions (HxV)	mm	2240x2040		
Injection unit	Unit	¿10600		
		A	B	C
Screw diameter	mm	110	120	130
Screw L/D ratio	L/D	24.0	22.0	20.3
Shot size (theoretical)	cm³	5312	6322	7420
Injection weight (PS)	g	4834	5753	6752
Injection pressure	MPa	191.8	161.1	137.3
Injection rate into air	g/s	1026	1221	1433
Screw speed	rpm	109		
Max. injection speed	mm/s	119		
Injection stroke	mm	559		
Others	Unit	¿10600		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	51x2+61		
Heater power	kW	80		
Hopper capacity	kg	100		
Oil tank volume	L	1400		
Machine dimension(LxWxH)	m	11.3x4.1x4.1		

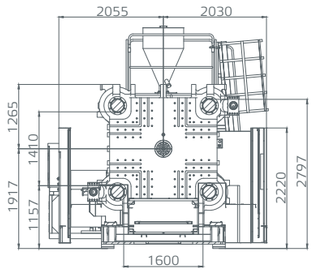
Remarks:
The bearing weight by moving platen is 2/3 of the maximum mold weight.
Theoretical capacity is the calculated volume of injection produced by the cross-sectional area of the screw/plunger and the injection stroke
The injection weight (PS) is the theoretical value derived form the injection volume and the typical melt density of polystyrene
The screw speed is the theoretical maximum screw speed.
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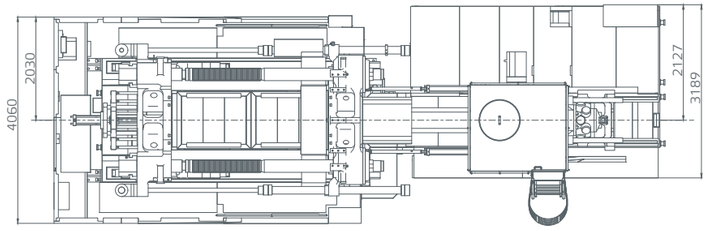
Front view of machine dimension



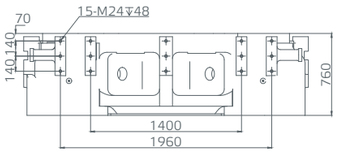
Robot installation dimension



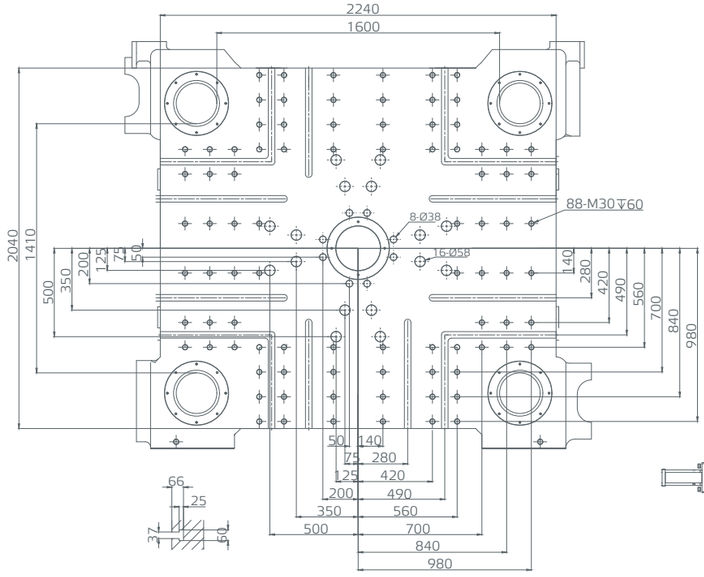
Top view of machine dimension



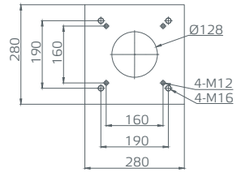
Robot fixed platen dimension



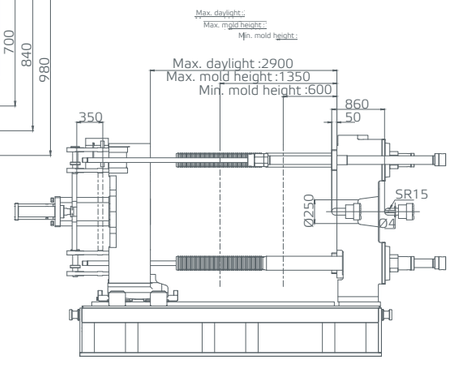
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

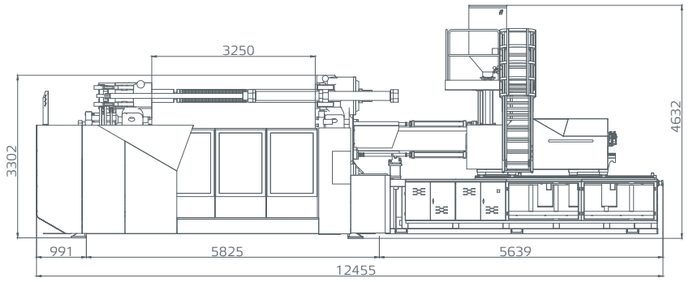
Parameters

Clamping unit	Unit	NEO·H1700II wp		
Clamping force	kN	17000		
Clamping stroke	mm	2600/1650		
Space between tie bars	mm	1860×1510		
Max. mold height	mm	1600		
Min. mold height	mm	650		
Ejector stroke	mm	400		
Ejector force	kN	430		
No. of ejector pins	piece	13		
Max. daylight	mm	3250		
Min. mold dimension	mm	1300×1060		
Platen dimensions (HxV)	mm	2500×2110		
Injection unit	Unit	i15800		
		A	B	C
Screw diameter	mm	130	140	150
Screw L/D ratio	L/D	23.7	22.0	20.5
Shot size (theoretical)	cm³	8482	9837	11292
Injection weight (PS)	g	7718	8951	10276
Injection pressure	MPa	190.5	164.3	143.1
Injection rate into air	g/s	1192	1382	1587
Screw speed	rpm	95		
Max. injection speed	mm/s	99		
Injection stroke	mm	639		
Others	Unit	i15800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	61x2+61		
Heater power	kW	104		
Hopper capacity	kg	200		
Oil tank volume	L	1800		
Machine dimension(LxWxH)	m	12.5x4.1x4.65		

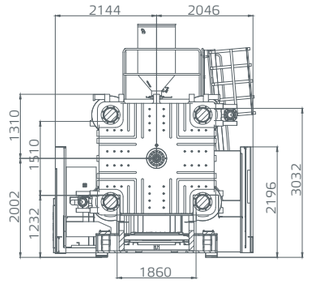
Remarks:
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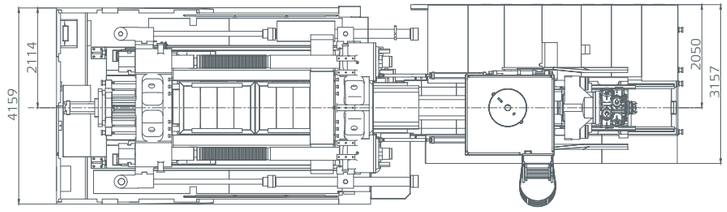
Front view of machine dimension



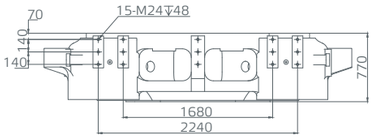
Robot installation dimension



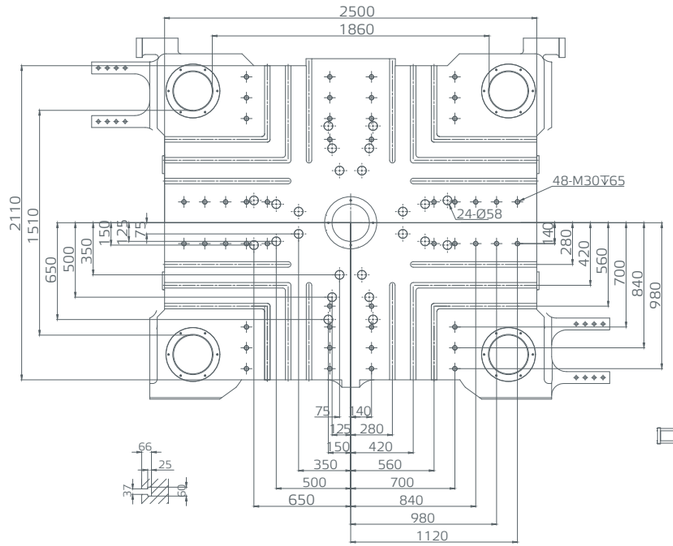
Top view of machine dimension



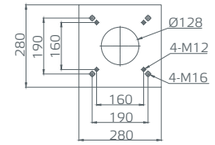
Robot fixed platen dimension



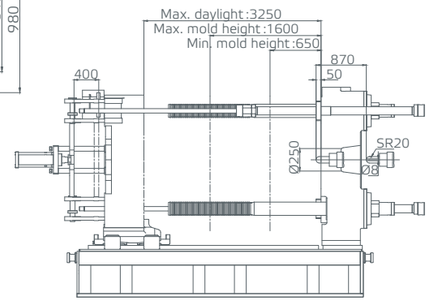
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO·HII

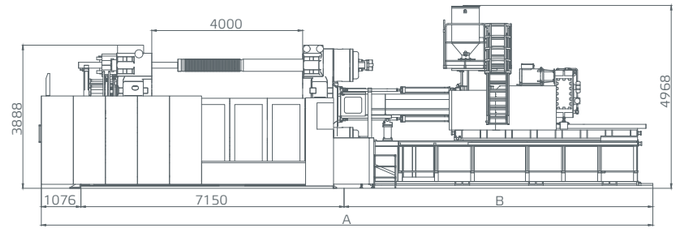
Parameters

Clamping unit	Unit	NEO·H2850II wp											
Clamping force	kN	28500											
Clamping stroke	mm	3200/2000											
Space between tie bars	mm	2185×1755											
Max. mold height	mm	2000											
Min. mold height	mm	800											
Ejector stroke	mm	500											
Ejector force	kN	560											
No. of ejector pins	piece	15											
Max. daylight	mm	4000											
Min. mold dimension	mm	1530×1230											
Platen dimensions (HxV)	mm	3030×2545											
Injection unit	Unit	*i* 22300				*i* 41000				*i* 66600			
		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	140	150	160	170	170	180	190	200	200	210	220	230
Screw L/D ratio	L/D	23.6	22.0	20.6	19.4	23.3	22.0	20.8	19.8	23.1	22.0	21.0	20.1
Shot size (theoretical)	cm³	10576	12140	13813	15594	22698	25447	28353	31416	39553	43607	47859	52308
Injection weight (PS)	g	9624	11048	12570	14190	20655	23157	25801	28588	35993	39682	43552	47600
Injection pressure	MPa	216.0	188.1	165.3	146.5	182.6	162.9	146.2	132	187.2	169.8	154.7	141.5
Injection rate into air	g/s	1507	1730	1968	2221	2127	2385	2657	2944	2076	2289	2512	2745
Screw speed	rpm	99				79				62			
Max. injection speed	mm/s	108				103				73			
Injection stroke	mm	687				1000				1259			
Others	Unit	*i* 22300				*i* 41000				*i* 66600			
Max. pump pressure	MPa	18.5				17.5				17.5			
Pump motor power	kW	61x3+51+80				61x3+51+80				61x3+51+80			
Heater power	kW	146				159				232			
Hopper capacity	kg	200				400				400			
Oil tank volume	L	2600				2600				2600			
Machine dimension(LxWxH)	m	15.9x5x5				16.3x5x5				17.8x5x5			

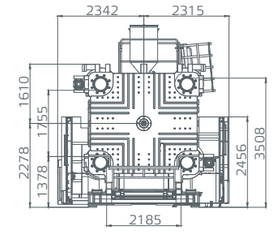
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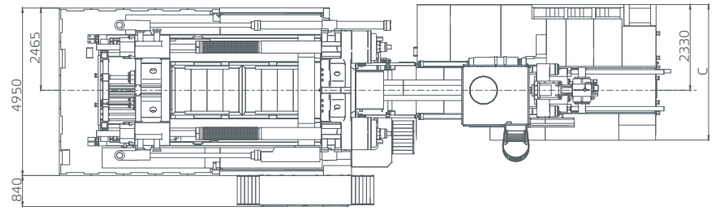
Front view of machine dimension



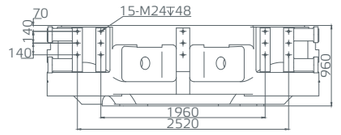
Robot installation dimension



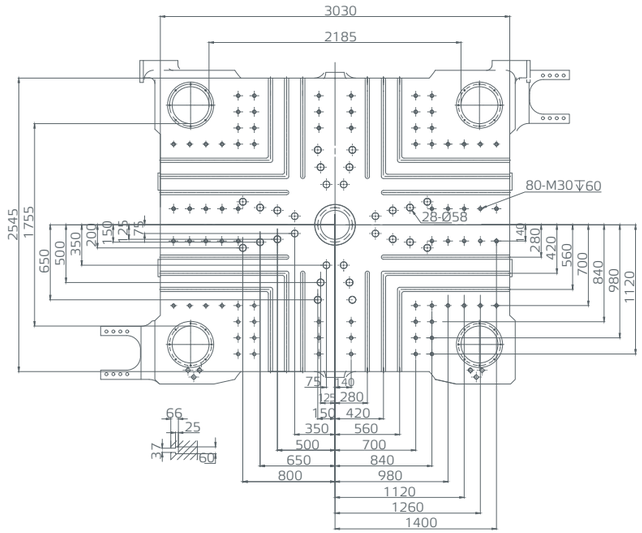
Top view of machine dimension



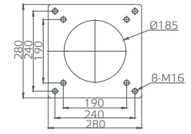
Robot fixed platen dimension



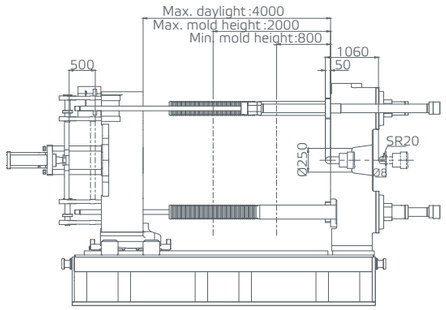
Moving platen dimension



Feeding port dimensions



Clamping unit



Injection unit	A	B	C
*i*22300	15826	7600	3244
*i*41000	16297	8071	3625
*i*66600	17789	9563	3614

Unit:mm

NEO·HII

Components & functions list

For clamping

Function description /Clamping unit	NEO·H1080II wp-NEO·H2850II wp
Platen with tapped holes	○
Platen with T slots	●
Platen (according to EUROMAP 2)	○
High rigid two-platen clamping unit	●
Mechanical safety	○
Electrical safety	●
Hydraulic safety	●
Auto-mold height adjustment function	●
Mold open, closing and mold adjusting are controlled by transducer	●
Fix-quantity type auto central lubrication system	●
Mechanical adjust support for moving platen	●
High rigidity steel wear strips for moving platen	●
Auto safety door	●
EUROMAP 18 robot interface	●
Magnetic platen	○
Hydraulic/electrical unscrew device	○
Widened door and covers	○
Safety pressure plate under mold area	●
Two water regulation manifolds	●
Quick coupling for water regulator	●
Two air blow circuits	●
Four air blow circuits	○
Glass water flow regulators	○
Self-lock valve for locking	●
Buffer lock brake control	●

● Standard ○ Optional

For injection

Function description/ Injection unit	*i*9500-*i*10600	*i*15800	*i*22300-*i*66600
Standard screw	●	●	●
Other screw	○	○	○
Shut off nozzle	○	○	○
Double cylinder injection	●	●	●
Double carriage cylinders	●	●	●
Transducer control for carriage	●	●	●
Screw rotating speed display	●	●	●
Plasticizing with hydraulic motor	●	●	○
Electrical plasticizing	○	○	●
Proportional back pressure contro	●	●	●
Closed-loop control of the temperature at the discharge port	●	●	●
Barrel Insulation cover	●	●	●
Nozzle cover	●	●	●
Self-lock valve for carriage forward	●	●	●
Material loading platform	○	●	●
Carriage central lubrication device	●	●	●
Carriage central auto lubrication device	○	○	○
Stainless heater bands	○	○	○
Ceramic heater band	●	●	●
Screw mobile feed hopper	●	○	○
Gas-assisted injection interface	○	○	○
Foam moulding	○	○	○
Hopper dryer	○	○	○
Stainless hopper	●	●	●
Barrel Insulation device	○	○	○

● Standard ○ Optional

NEO·HII

Components & functions list

For electric

Function description /Clamping unit	NEO·H1080II wp-NEO·H2850II wp
Keba controller	●
KEBA 15-inch touch screen	●
Memory with 200 sets of mold parameters	●
All action instant monitoring	●
Production monitoring	●
Failure alarm display	●
Changeover from injection fill to hold by injection pressure	○
I/O monitoring display	●
3 color light (with buzzer)	●
Motor overload protection	●
Front/back door emergency stop switch	●
5 pins socket of 380V/32A, 2 groups 5 pins socket of 380V/16A, 1 group 3 pins socket of 230V/16A, 1 group	●
Servo motor power voltage 480V	○
Transformer for servomotor system	○
EUROMAP 13 neutron connection	●
EUROMAP 12 robot interface	●
EUROMAP 67 robot interface	○
Double protection for heating	●
Safety relay monitoring	●
SSR heating control	●
Hot runner control system & interface	○
Instant power consumption monitoring	○
Instant clamping force monitoring	●
230V/10A Industrial plug	●
Electrical cabinet lighting device	●
Remote control	○
Close-loop control for mold open/close	●
Safety pedal monitoring	●
Open-phase protection	●
Inspection of repair door	●

● Standard ○ Optional

For hydraulic

Function description / Injection unit	¿9500-¿66600
Fast response servo system	●
Increased motor-pump unit	○
Independent cooling system	●
Independent filtration system	●
Pressure control for Injection to hold on pressure	○
Programmable injection sequence	○
Fast injection with accumulator	○
Carriager self-lock valve	●
Proportional injection valve	○
Injection servo valve	○
Oil temp. detector	●
Oil level alarm	●
Anti-explosive chain	●
Self-lock suction oil filter	●
Control of oil temperature and cold water valve	○
Function description /Clamping unit	**NEO·H1080II wp-NEO·H2850II wp**
Two core pull circuits on moving platen	●
Two core pull circuit on moving platen, two core pull circuit on fixed	●
Sequence valve	○
Fast molding closing device	●
Quick clamping device	●
Ejector on-the-fly	●
Low pressure mold protection	●
Hydraulic safety device	●
Plasticize on-the-fly	○
Plasticizing & ejector on the fly	○
Proportional valve control for clamp open and close	●
Servo valve control for clamp open and close	○

For other

Function description / Other	NEO·H1080II wp-NEO·H2850II wp
Tederic standard color	●
Shock-proof pad	●
Foundation steel plate, Foundation anchor bolts	○
Spare parts box, tools, mould clamps, easy broken parts, extended nozzle, operation manual	●
High base	○
Robot	○
Magnet (for hopper dryer)	○
Chiller	○
Mould temp controller	○
Dehumidifier	○
Autoloader	○
Fumigated wooden packaging	○
With full-tank hydraulic oil	○
Products fetching platform	

● Standard ○ Optional