

technical parameters

NEO • T

Toggle Clamp
Injection Molding Machine

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t.NEO-T.2025.01

tederic
SMART INJECTION

NEO-T

Parameters

Clamping unit	Unit	NEO-T90		
Clamping force	kN	900		
Clamping stroke	mm	340		
Space between tie bars	mm	360x360		
Max. mold height	mm	390		
Min. mold height	mm	150		
Ejector stroke	mm	120		
Ejector force	kN	34		
No. of ejector pins	piece	5		
Max. daylight	mm	730		
Min. mold dimension	mm	252x252		
Platen dimensions (HxV)	mm	530x530		
Injection unit	Unit	i380		
		A	B	C
Screw diameter	mm	35	38	42
Screw L/D ratio	L/D	21.7	20.0	18.1
Shot size (theoretical)	cm³	168	198	242
Injection weight (PS)	g	153	181	221
Injection pressure	MPa	227.9	193.3	158.2
Injection rate into air	g/s	106	125	153
Screw speed	rpm	250		
Max. injection speed	mm/s	121		
Injection stroke	mm	175		
Others	Unit	i380		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	16		
Heater power	kW	6.6		
Hopper capacity	kg	25		
Oil tank volume	L	120		
Total machine weight	t	3.5		
Machine dimension(LxWxH)	m	4.34x1.3x2.0		

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

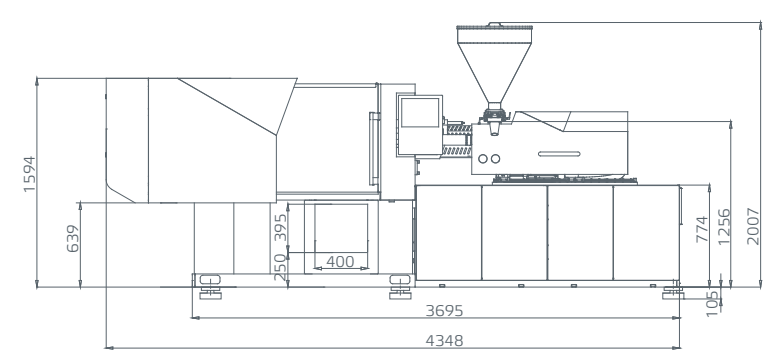
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

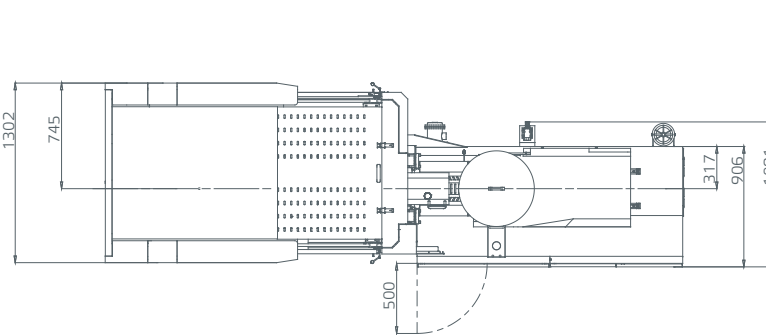
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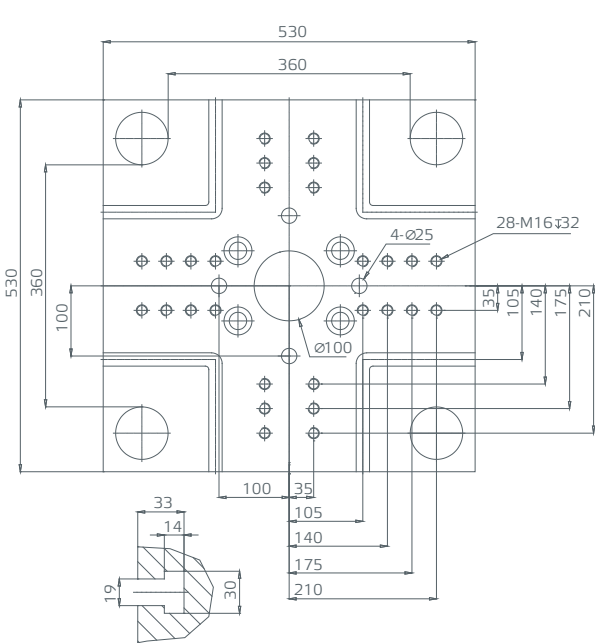
Front view of machine dimension



Top view of machine dimension

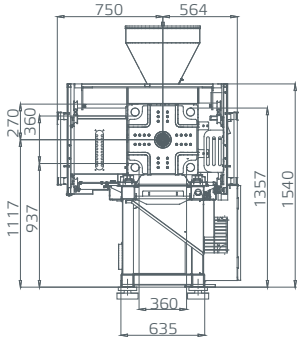


Moving platen dimension

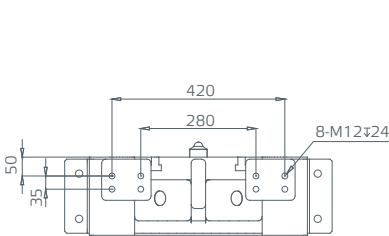


Unit:mm

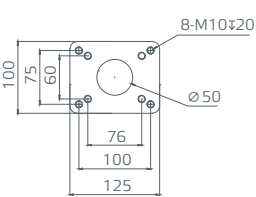
Robot installation dimension



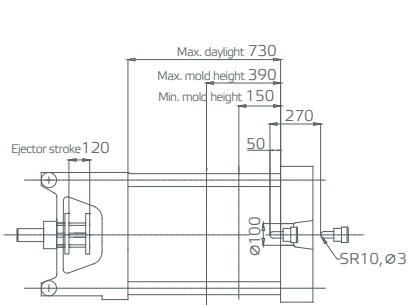
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T130		
Clamping force	kN	1300		
Clamping stroke	mm	360		
Space between tie bars	mm	410×410		
Max. mold height	mm	450		
Min. mold height	mm	150		
Ejector stroke	mm	120		
Ejector force	kN	34		
No. of ejector pins	piece	5		
Max. daylight	mm	810		
Min. mold dimension	mm	287×287		
Platen dimensions (HxV)	mm	610×610		
Injection unit	Unit	i510		
		A	B	C
Screw diameter	mm	38	42	45
Screw L/D ratio	L/D	22.1	20.0	18.7
Shot size (theoretical)	cm³	221	270	310
Injection weight (PS)	g	201	246	282
Injection pressure	MPa	232.7	190.5	165.9
Injection rate into air	g/s	130	159	182
Screw speed	rpm	250		
Max. injection speed	mm/s	126		
Injection stroke	mm	195		
Others	Unit	i510		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	20		
Heater power	kW	9.5		
Hopper capacity	kg	25		
Oil tank volume	L	140		
Total machine weight	t	4.4		
Machine dimension(LxWxH)	m	4.66x1.45x2.07		

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

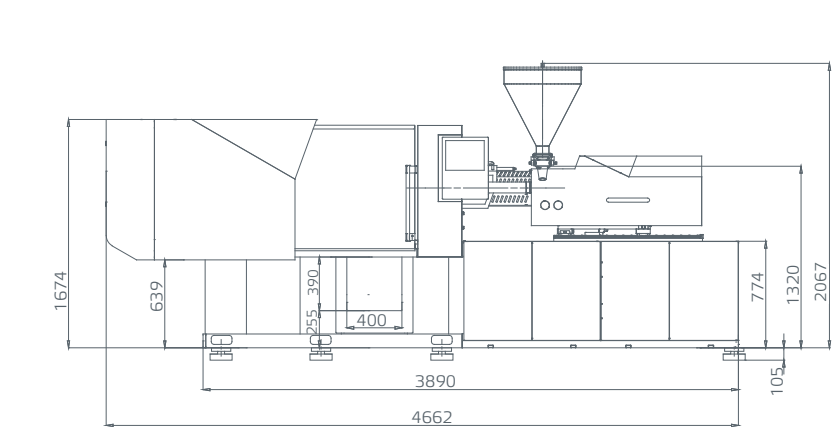
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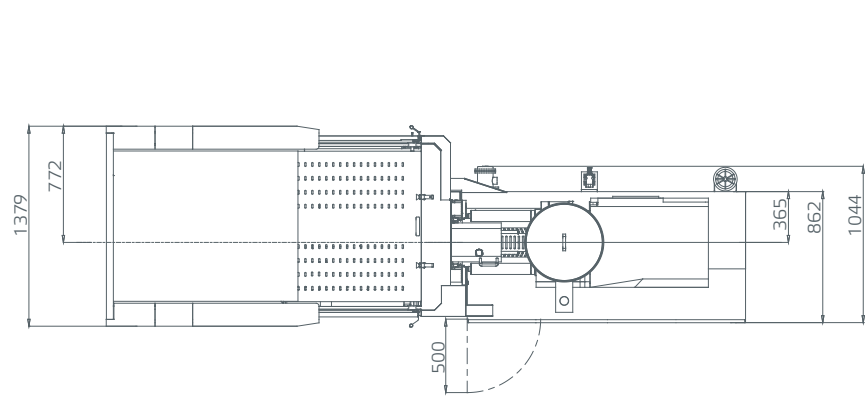
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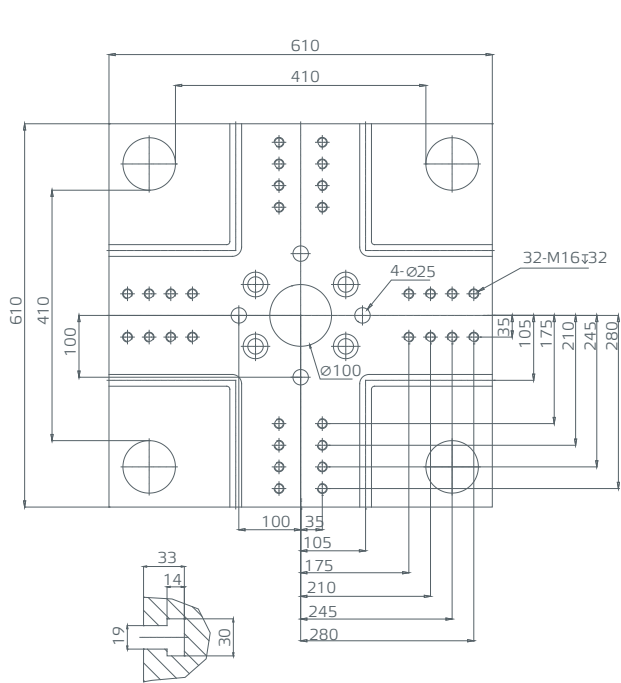
Front view of machine dimension



Top view of machine dimension

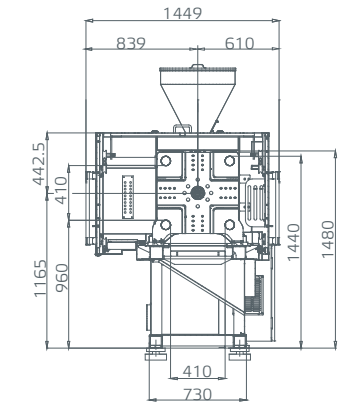


Moving platen dimension

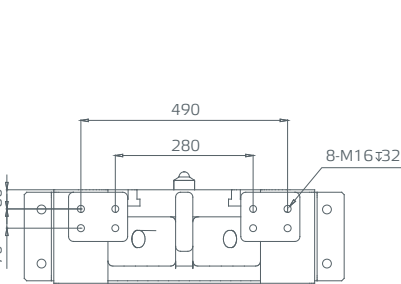


Unit:mm

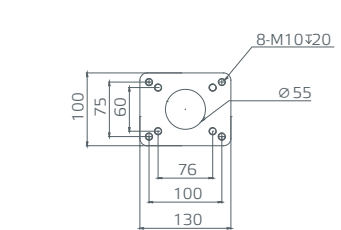
Robot installation dimension



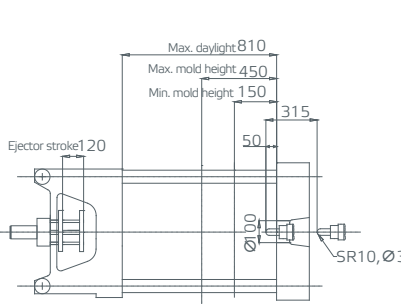
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T160		
Clamping force	kN	1600		
Clamping stroke	mm	450		
Space between tie bars	mm	470×470		
Max. mold height	mm	530		
Min. mold height	mm	180		
Ejector stroke	mm	150		
Ejector force	kN	49		
No. of ejector pins	piece	5		
Max. daylight	mm	980		
Min. mold dimension	mm	329×329		
Platen dimensions (HxV)	mm	700×700		
Injection unit	Unit	i600		
		A	B	C
Screw diameter	mm	42	45	50
Screw L/D ratio	L/D	21.4	20.0	18.0
Shot size (theoretical)	cm³	312	358	442
Injection weight (PS)	g	284	326	402
Injection pressure	MPa	223.5	194.7	157.7
Injection rate into air	g/s	135	155	192
Screw speed	rpm	238		
Max. injection speed	mm/s	107		
Injection stroke	mm	225		
Others	Unit	i600		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	20		
Heater power	kW	10.4		
Hopper capacity	kg	50		
Oil tank volume	L	190		
Total machine weight	t	5.5		
Machine dimension(LxWxH)	m	4.98x1.31x2.11		

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

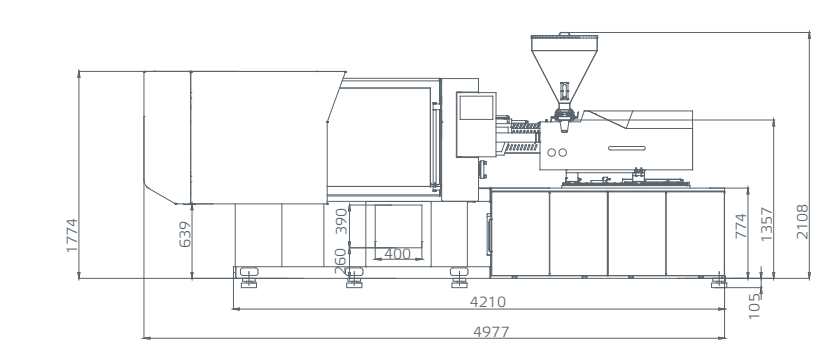
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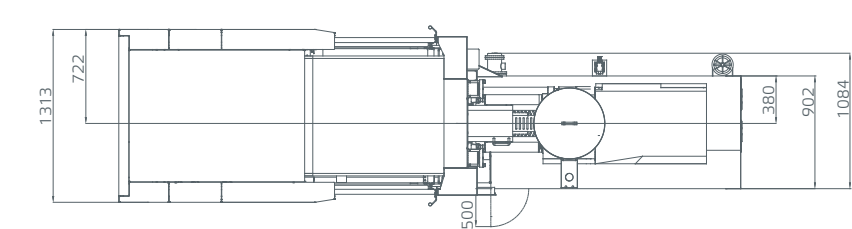
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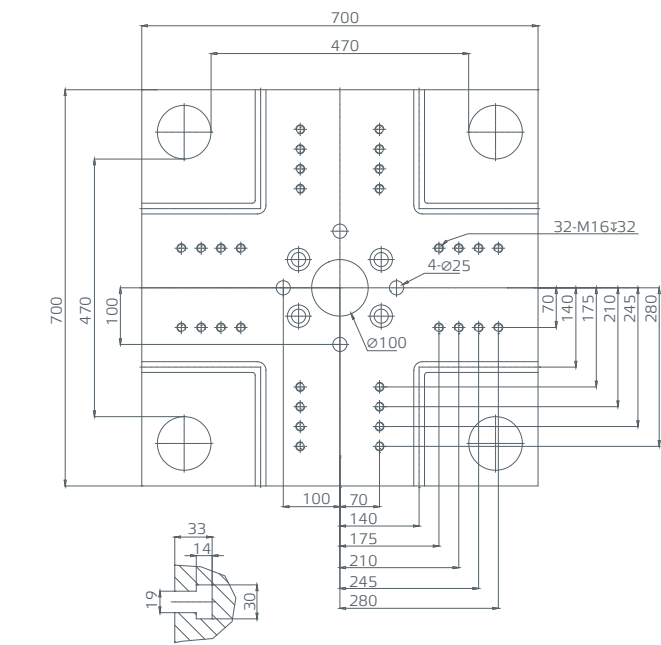
Front view of machine dimension



Top view of machine dimension

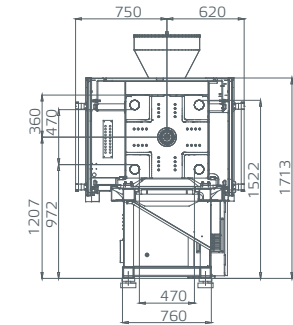


Moving platen dimension

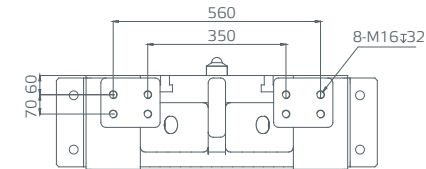


Unit:mm

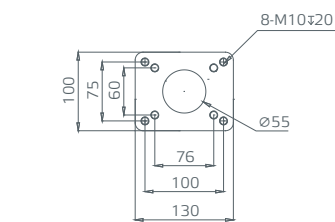
Robot installation dimension



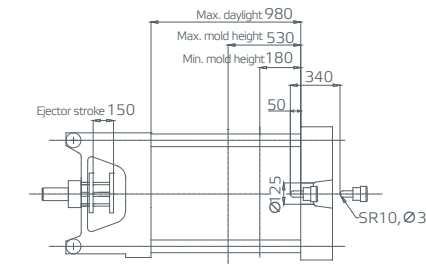
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T200		
Clamping force	kN	2000		
Clamping stroke	mm	510		
Space between tie bars	mm	530×530		
Max. mold height	mm	560		
Min. mold height	mm	200		
Ejector stroke	mm	150		
Ejector force	kN	67		
No. of ejector pins	piece	9		
Max. daylight	mm	1070		
Min. mold dimension	mm	371×371		
Platen dimensions (HxV)	mm	800x800		
Injection unit	Unit	i850		
		A	B	C
Screw diameter	mm	45	50	55
Screw L/D ratio	L/D	22.2	20.0	18.2
Shot size (theoretical)	cm³	374	461	558
Injection weight (PS)	g	340	420	508
Injection pressure	MPa	229.9	186.2	153.9
Injection rate into air	g/s	165	204	246
Screw speed	rpm	230		
Max. injection speed	mm/s	114		
Injection stroke	mm	235		
Others	Unit	i850		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	25		
Heater power	kW	13		
Hopper capacity	kg	50		
Oil tank volume	L	210		
Total machine weight	t	7		
Machine dimension(LxWxH)	m	5.26x1.68x2.17		

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

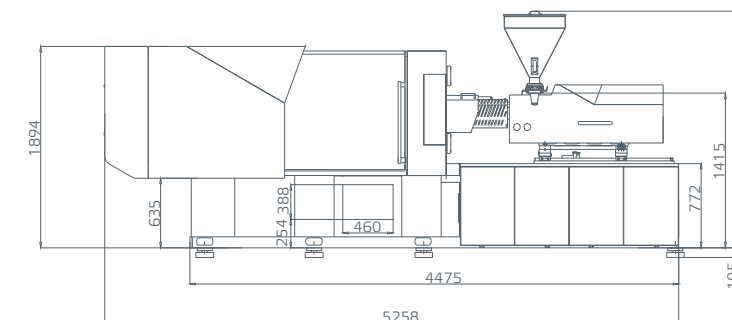
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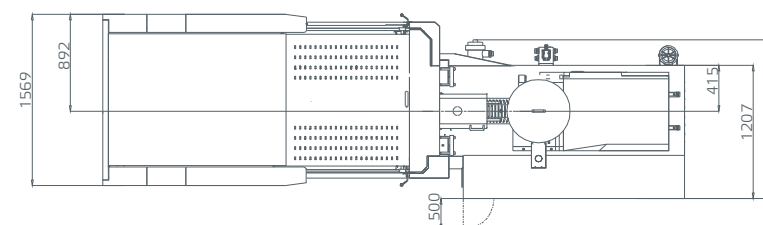
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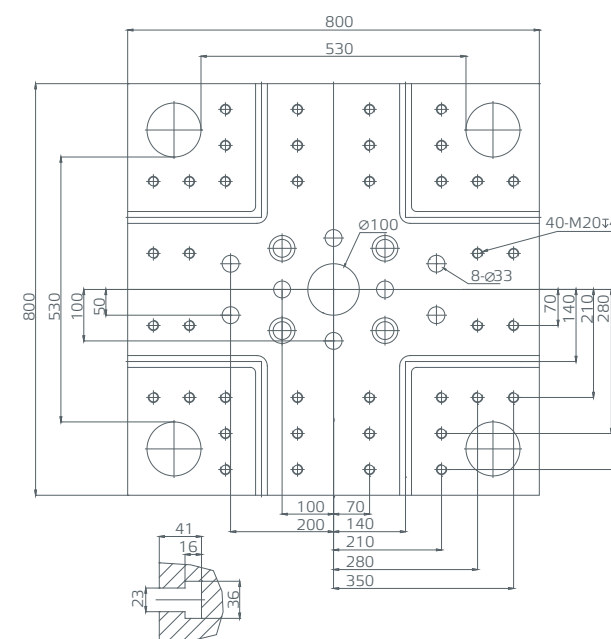
Front view of machine dimension



Top view of machine dimension

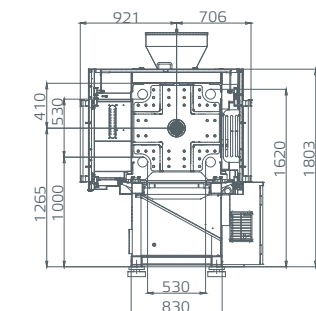


Moving platen dimension

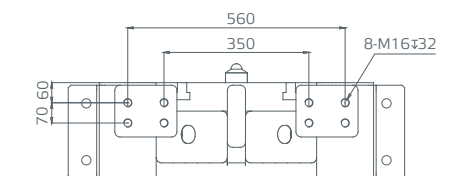


Unit:mm

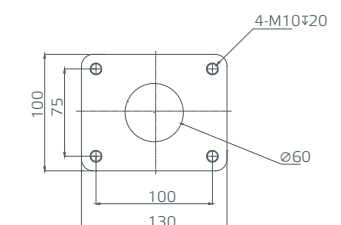
Robot installation dimension



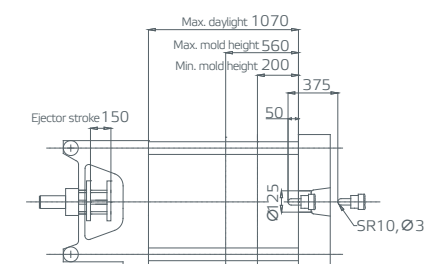
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T260		
Clamping force	kN	2600		
Clamping stroke	mm	550		
Space between tie bars	mm	610×570		
Max. mold height	mm	600		
Min. mold height	mm	220		
Ejector stroke	mm	160		
Ejector force	kN	67		
No. of ejector pins	piece	13		
Max. daylight	mm	1150		
Min. mold dimension	mm	427×399		
Platen dimensions (HxV)	mm	890×850		
Injection unit	Unit	i1100		
		A	B	C
Screw diameter	mm	50	55	60
Screw L/D ratio	L/D	22.0	20.0	18.3
Shot size (theoretical)	cm³	522	632	752
Injection weight (PS)	g	475	575	684
Injection pressure	MPa	215.3	177.9	149.5
Injection rate into air	g/s	216	261	311
Screw speed	rpm	220		
Max. injection speed	mm/s	121		
Injection stroke	mm	266		
Others	Unit	i1100		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	32		
Heater power	kW	16		
Hopper capacity	kg	50		
Oil tank volume	L	255		
Total machine weight	t	8.5		
Machine dimension(LxWxH)	m	5.45x1.73x2.20		

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

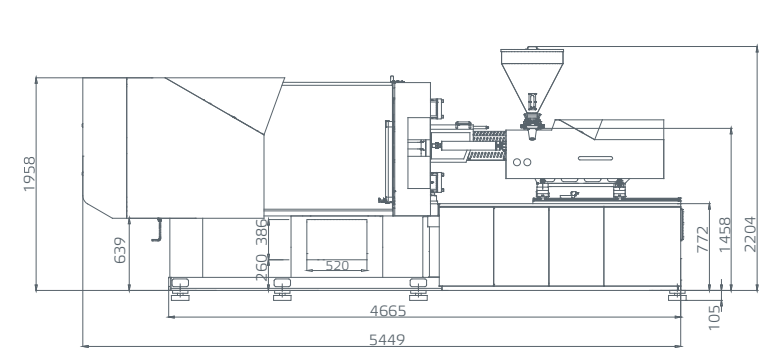
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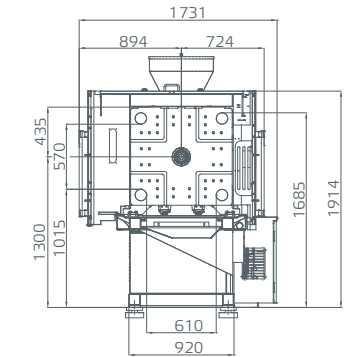
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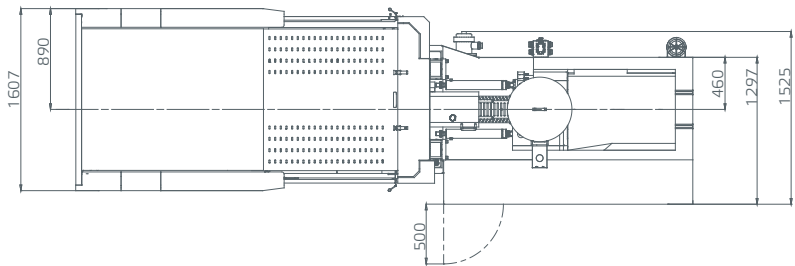
Front view of machine dimension



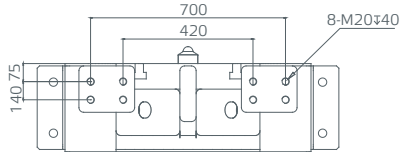
Robot installation dimension



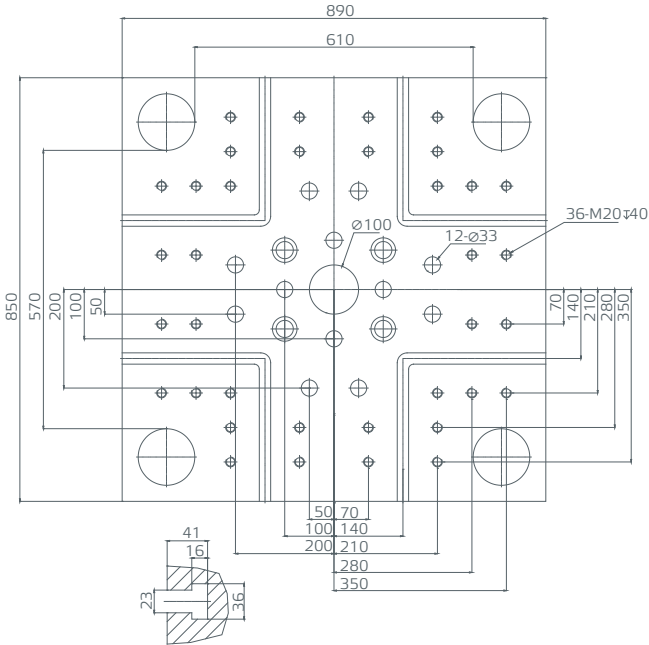
Top view of machine dimension



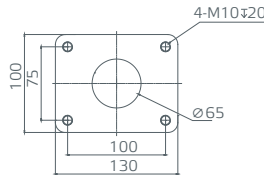
Robot fixed platen dimension



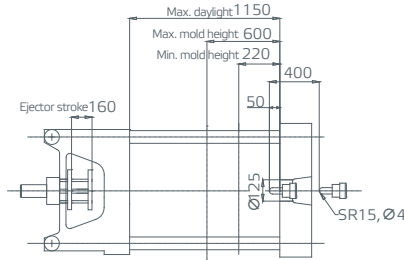
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Parameters

Clamping unit	Unit	NEO-T300		
Clamping force	kN	3000		
Clamping stroke	mm	640		
Space between tie bars	mm	660×620		
Max. mold height	mm	680		
Min. mold height	mm	250		
Ejector stroke	mm	160		
Ejector force	kN	67		
No. of ejector pins	piece	13		
Max. daylight	mm	1320		
Min. mold dimension	mm	462x434		
Platen dimensions (HxV)	mm	970x940		
Injection unit	Unit	i1500		
		A	B	C
Screw diameter	mm	55	60	65
Screw L/D ratio	L/D	21.8	20.0	18.5
Shot size (theoretical)	cm³	656	780	916
Injection weight (PS)	g	597	710	833
Injection pressure	MPa	221.3	185.9	158.4
Injection rate into air	g/s	251	298	350
Screw speed	rpm	220		
Max. injection speed	mm/s	116		
Injection stroke	mm	276		
Others	Unit	i1500		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	40		
Heater power	kW	19		
Hopper capacity	kg	50		
Oil tank volume	L	355		
Total machine weight	t	10		
Machine dimension(LxWxH)	m	6.16x1.7x2.40		

Remarks:

The bearing weight by moving platen is 2/3 of the maximum mold weight.

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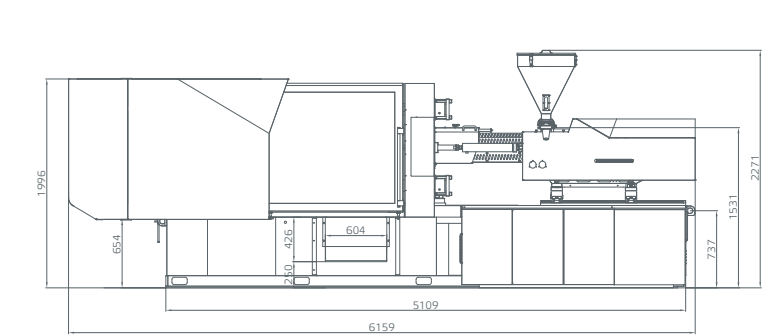
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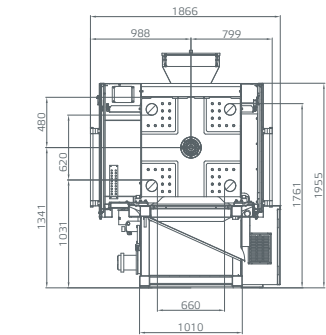
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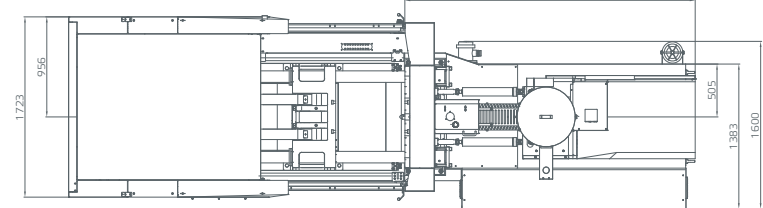
Front view of machine dimension



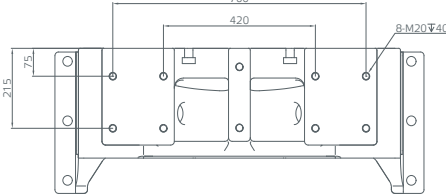
Robot installation dimension



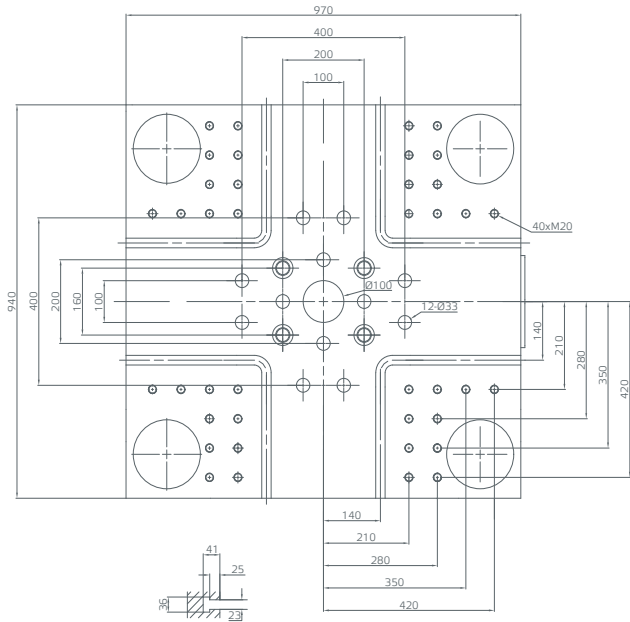
Top view of machine dimension



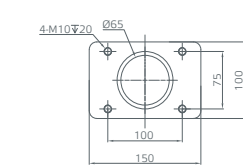
Robot fixed platen dimension



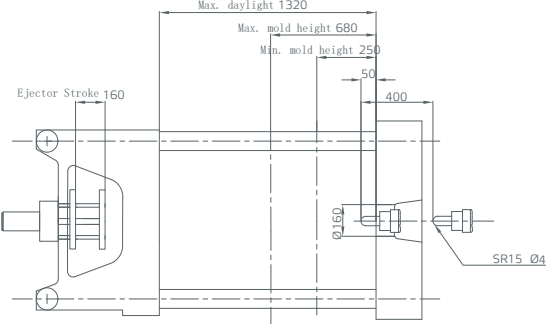
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Parameters

Clamping unit	Unit	NEO-T360		
Clamping force	kN	3600		
Clamping stroke	mm	650		
Space between tie bars	mm	710×670		
Max. mold height	mm	685		
Min. mold height	mm	250		
Ejector stroke	mm	160		
Ejector force	kN	67		
No. of ejector pins	piece	13		
Max. daylight	mm	1335		
Min. mold dimension	mm	497×469		
Platen dimensions (HxV)	mm	1035×1005		
Injection unit	Unit	i1900		
		A	B	C
Screw diameter	mm	60	65	70
Screw L/D ratio	L/D	21.7	20.0	18.6
Shot size (theoretical)	cm³	845	992	1151
Injection weight (PS)	g	769	903	1047
Injection pressure	MPa	218.8	186.4	160.7
Injection rate into air	g/s	300	352	408
Screw speed	rpm	200		
Max. injection speed	mm/s	117		
Injection stroke	mm	299		
Others	Unit	i1900		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	51		
Heater power	kW	25		
Hopper capacity	kg	50		
Oil tank volume	L	445		
Total machine weight	t	12.4		
Machine dimension(LxWxH)	m	6.56×1.89×2.31		

Remarks:

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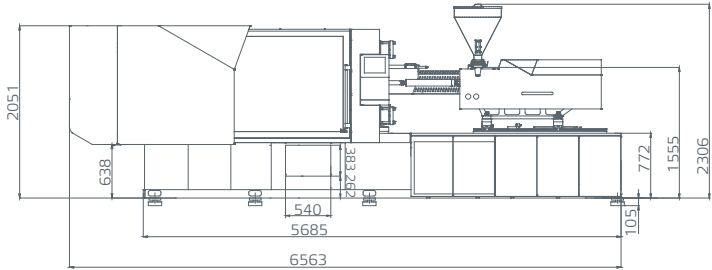
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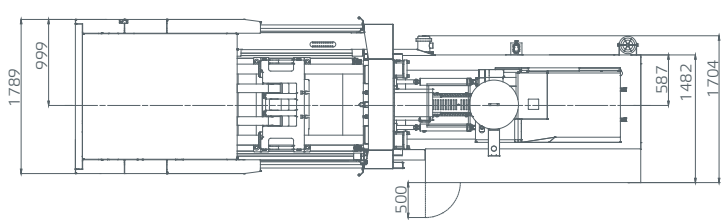
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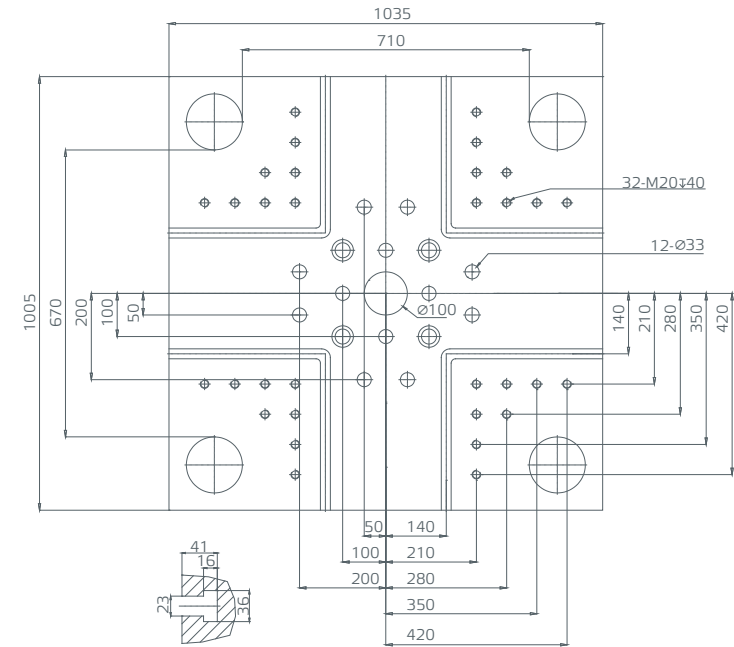
Front view of machine dimension



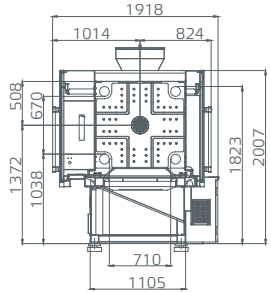
Top view of machine dimension



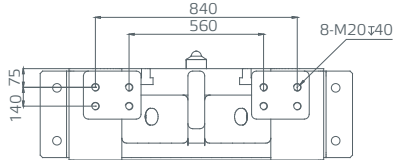
Moving platen dimension



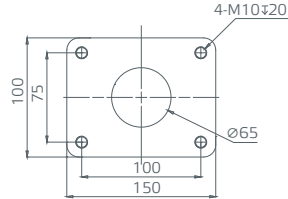
Robot installation dimension



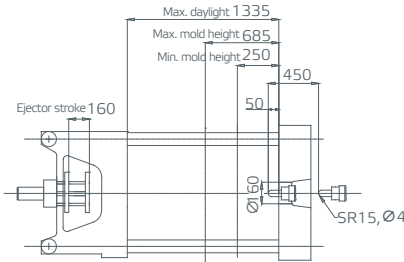
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Parameters

Clamping unit	Unit	NEO-T400		
Clamping force	kN	4000		
Clamping stroke	mm	720		
Space between tie bars	mm	760×710		
Max. mold height	mm	750		
Min. mold height	mm	280		
Ejector stroke	mm	200		
Ejector force	kN	124		
No. of ejector pins	piece	13		
Max. daylight	mm	1470		
Min. mold dimension	mm	532x497		
Platen dimensions (HxV)	mm	1100x1050		
Injection unit	Unit	i2500		
		A	B	C
Screw diameter	mm	65	70	75
Screw L/D ratio	L/D	23.7	22.0	20.5
Shot size (theoretical)	cm³	1161	1347	1546
Injection weight (PS)	g	1057	1226	1407
Injection pressure	MPa	215.4	185.7	161.8
Injection rate into air	g/s	375	435	499
Screw speed	rpm	185		
Max. injection speed	mm/s	124		
Injection stroke	mm	350		
Others	Unit	i2500		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	55		
Heater power	kW	26		
Hopper capacity	kg	50		
Oil tank volume	L	535		
Total machine weight	t	16.8		
Machine dimension(LxWxH)	m	7.40x2.11x2.46		

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

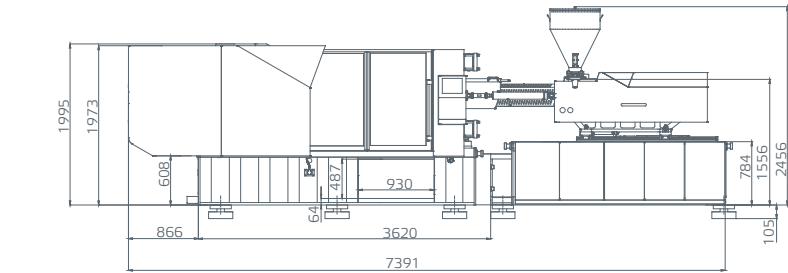
The injection weight (PS) is the theoretical value derived from the injection volume and the typical melt density of polystyrene

The screw speed is the theoretical maximum screw speed.

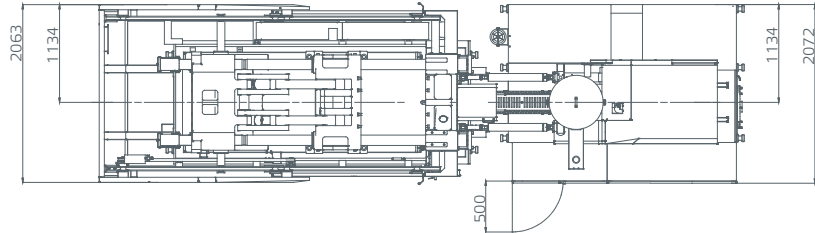
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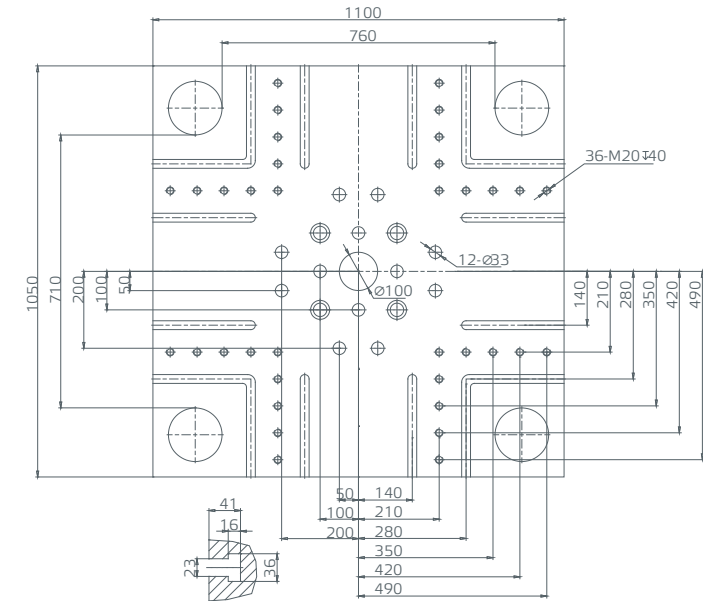
Front view of machine dimension



Top view of machine dimension

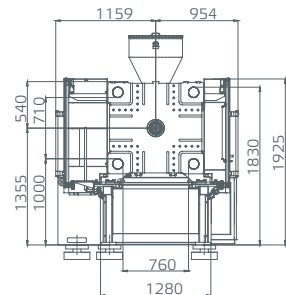


Moving platen dimension

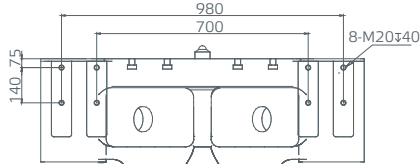


Unit:mm

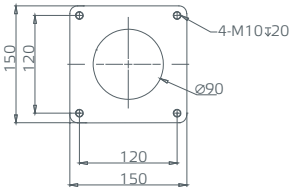
Robot installation dimension



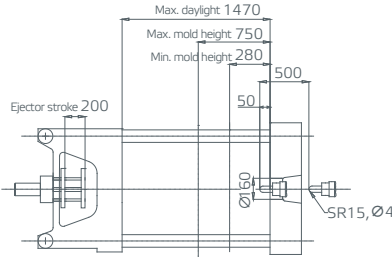
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T450		
Clamping force	kN	4500		
Clamping stroke	mm	800		
Space between tie bars	mm	780×780		
Max. mold height	mm	780		
Min. mold height	mm	300		
Ejector stroke	mm	200		
Ejector force	kN	124		
No. of ejector pins	piece	13		
Max. daylight	mm	1580		
Min. mold dimension	mm	546x546		
Platen dimensions (HxV)	mm	1155x1155		
Injection unit	Unit	i3200		
		A	B	C
Screw diameter	mm	70	75	80
Screw L/D ratio	L/D	23.6	22.0	20.6
Shot size (theoretical)	cm³	1516	1741	1980
Injection weight (PS)	g	1380	1584	1802
Injection pressure	MPa	212.1	184.8	162.4
Injection rate into air	g/s	381	437	497
Screw speed	rpm	185		
Max. injection speed	mm/s	109		
Injection stroke	mm	394		
Others	Unit	i3200		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	55		
Heater power	kW	32		
Hopper capacity	kg	50		
Oil tank volume	L	535		
Total machine weight	t	17.8		
Machine dimension(LxWxH)	m	7.75x2.11x2.47		

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

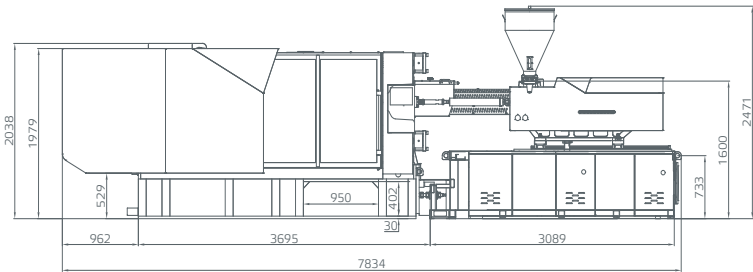
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

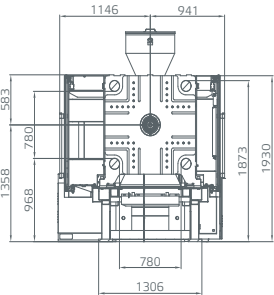
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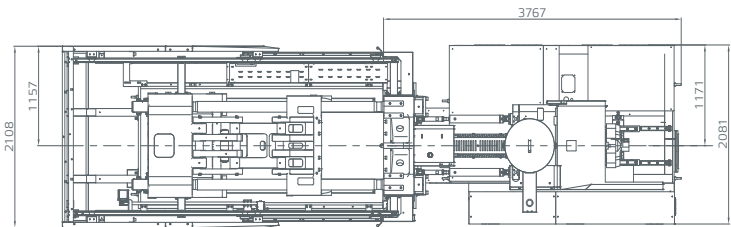
Front view of machine dimension



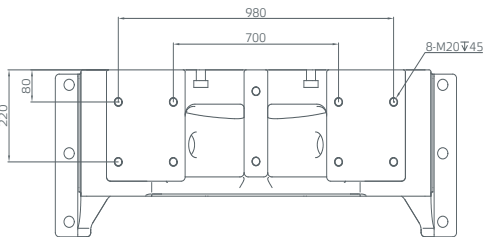
Robot installation dimension



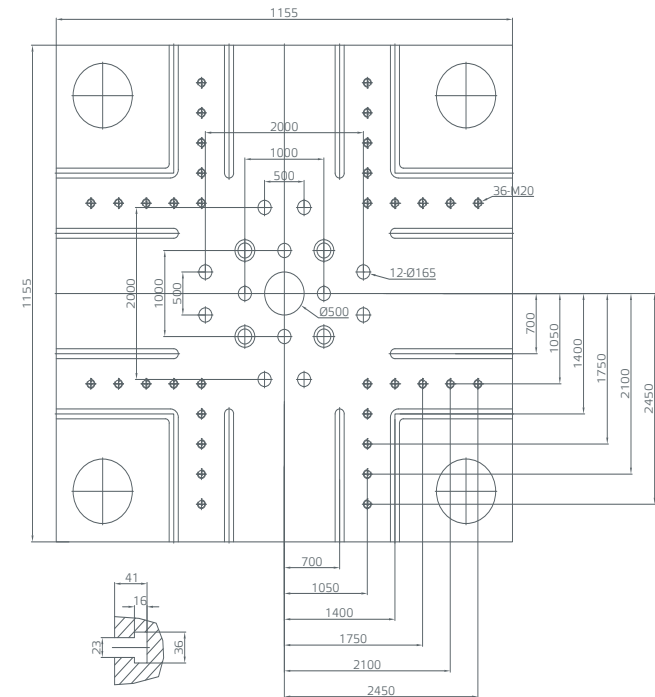
Top view of machine dimension



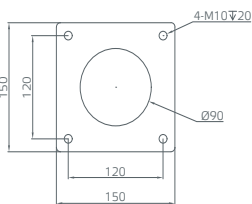
Robot fixed platen dimension



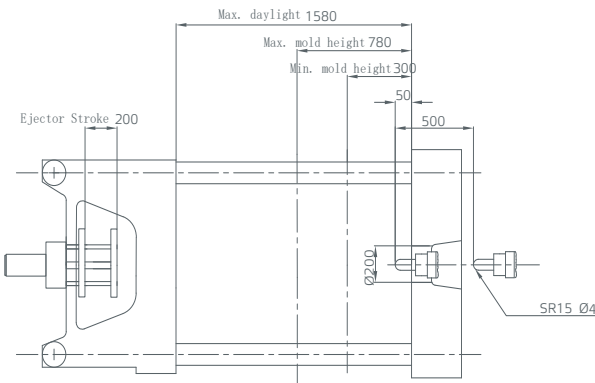
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Parameters

Clamping unit	Unit	NEO-T500		
Clamping force	kN	5000		
Clamping stroke	mm	800		
Space between tie bars	mm	820×820		
Max. mold height	mm	800		
Min. mold height	mm	320		
Ejector stroke	mm	200		
Ejector force	kN	124		
No. of ejector pins	piece	17		
Max. daylight	mm	1600		
Min. mold dimension	mm	574x574		
Platen dimensions (HxV)	mm	1205x1205		
Injection unit	Unit	ϕ3800		
		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	450/539	512/613	578/692
Screw speed	rpm	165		
Max. injection speed	mm/s	112/134		
Injection stroke	mm	404		
Others	Unit	ϕ3800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	32+32/61+20		
Heater power	kW	37		
Hopper capacity	kg	50		
Oil tank volume	L	590		
Total machine weight	t	21.2		
Machine dimension(LxWxH)	m	8.1x2.17x2.65		

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

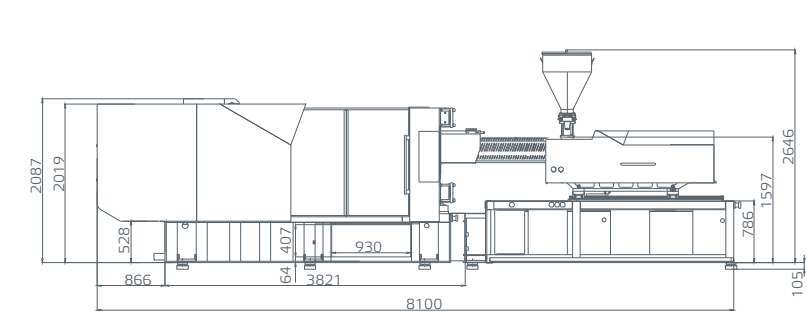
The injection weight (PS) is the theoretical value derived from the injection volume and the typical melt density of polystyrene

The screw speed is the theoretical maximum screw speed.

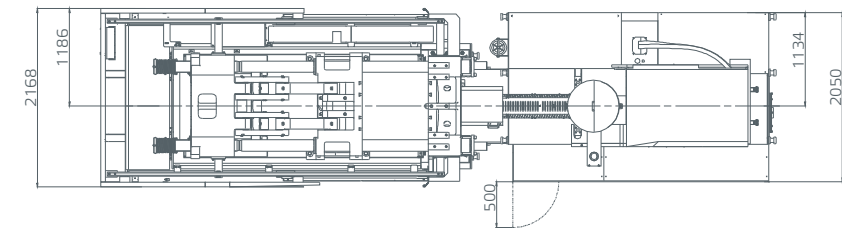
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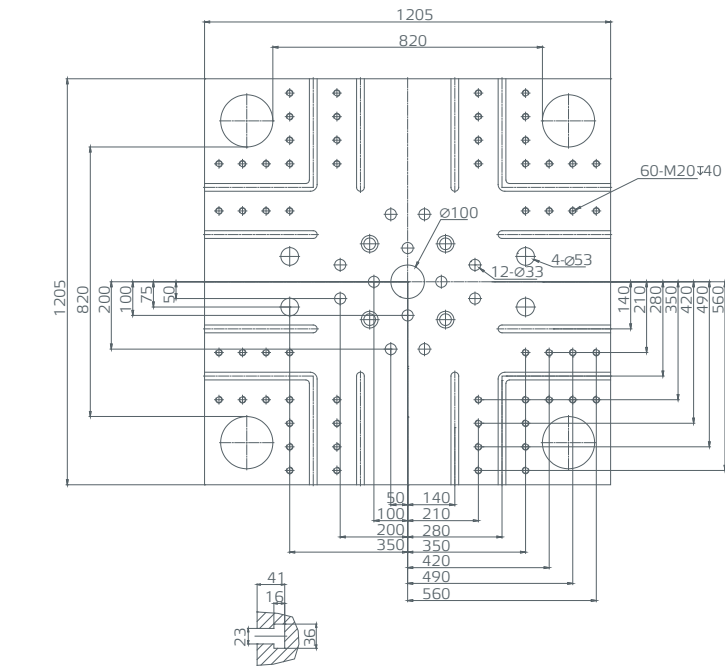
Front view of machine dimension



Top view of machine dimension

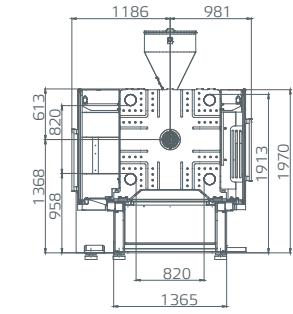


Moving platen dimension

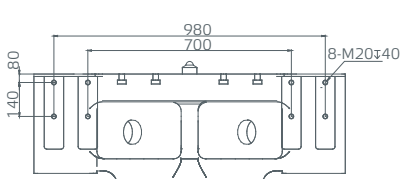


Unit:mm

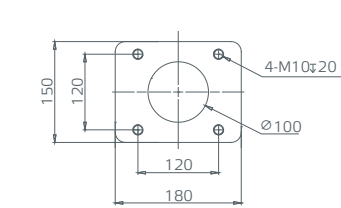
Robot installation dimension



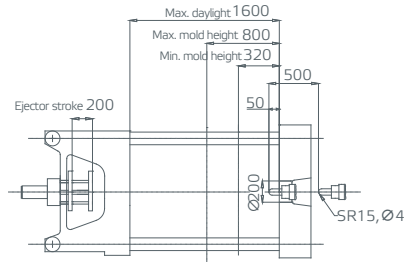
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T600		
Clamping force	kN	6000		
Clamping stroke	mm	900		
Space between tie bars	mm	880×880		
Max. mold height	mm	900		
Min. mold height	mm	350		
Ejector stroke	mm	260		
Ejector force	kN	182		
No. of ejector pins	piece	21		
Max. daylight	mm	1800		
Min. mold dimension	mm	616×616		
Platen dimensions (HxV)	mm	1285×1285		
Injection unit	Unit	i4800		
		A	B	C
Screw diameter	mm	80	85	90
Screw L/D ratio	L/D	23.4	22.0	20.8
Shot size (theoretical)	cm³	2242	2531	2837
Injection weight (PS)	g	2040	2303	2582
Injection pressure	MPa	204.4	181.1	161.5
Injection rate into air	g/s	499	563	631
Screw speed	rpm	150		
Max. injection speed	mm/s	109		
Injection stroke	mm	446		
Others	Unit	i4800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	40+32		
Heater power	kW	39		
Hopper capacity	kg	100		
Oil tank volume	L	710		
Total machine weight	t	25.4		
Machine dimension(LxWxH)	m	9.2x2.15x2.8		

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

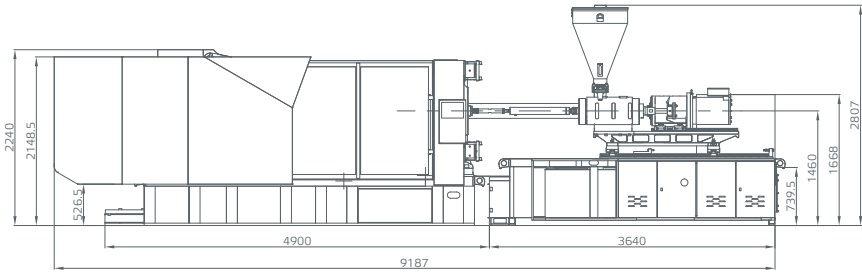
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

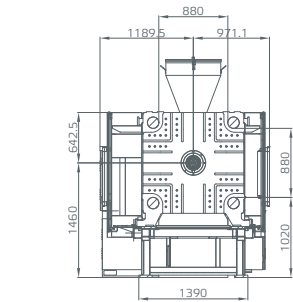
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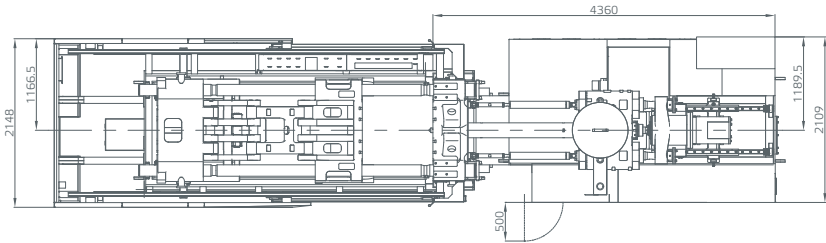
Front view of machine dimension



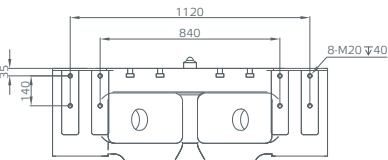
Robot installation dimension



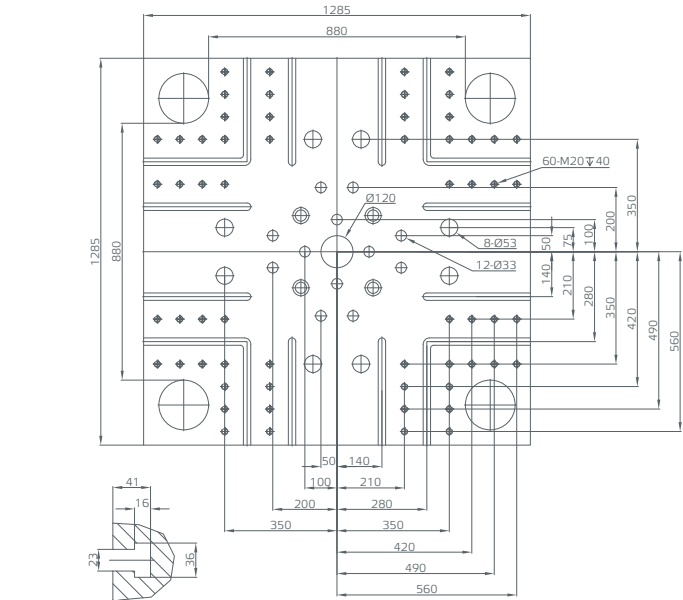
Top view of machine dimension



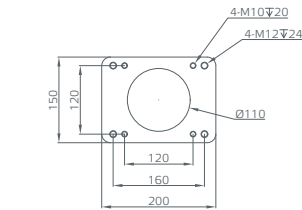
Robot fixed platen dimension



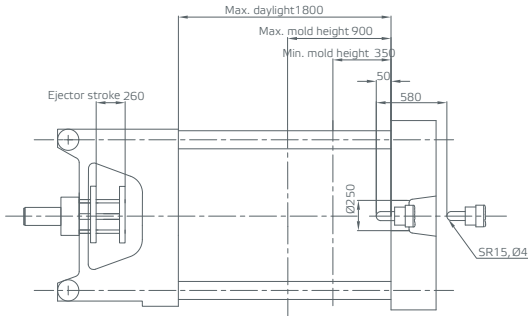
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Parameters

Clamping unit	Unit	NEO-T650		
Clamping force	kN	6500		
Clamping stroke	mm	940		
Space between tie bars	mm	920×920		
Max. mold height	mm	940		
Min. mold height	mm	400		
Ejector stroke	mm	260		
Ejector force	kN	182		
No. of ejector pins	piece	21		
Max. daylight	mm	1880		
Min. mold dimension	mm	644×644		
Platen dimensions (HxV)	mm	1340×1340		
Injection unit	Unit	i5800		
		A	B	C
Screw diameter	mm	85	90	100
Screw L/D ratio	L/D	23.3	22.0	19.8
Shot size (theoretical)	cm³	2684	3009	3715
Injection weight (PS)	g	2442	2738	3381
Injection pressure	MPa	202.9	180.9	146.6
Injection rate into air	g/s	552	619	764
Screw speed	rpm	126		
Max. injection speed	mm/s	107		
Injection stroke	mm	473		
Others	Unit	i5800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	51+32		
Heater power	kW	44		
Hopper capacity	kg	100		
Oil tank volume	L	800		
Total machine weight	t	26.7		
Machine dimension(LxWxH)	m	9.85x2.18x2.8		

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

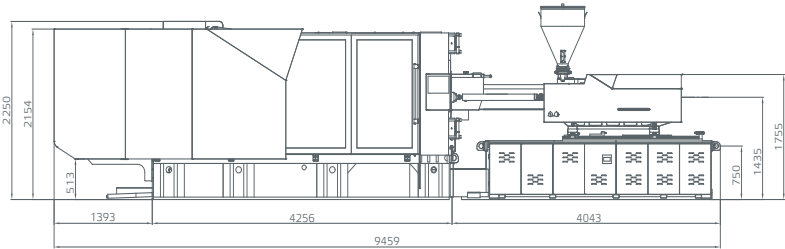
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

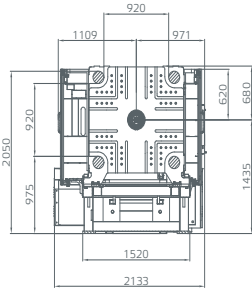
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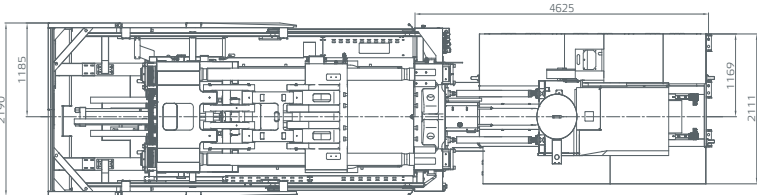
Front view of machine dimension



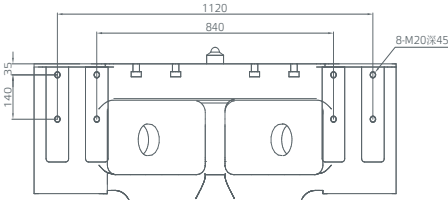
Robot installation dimension



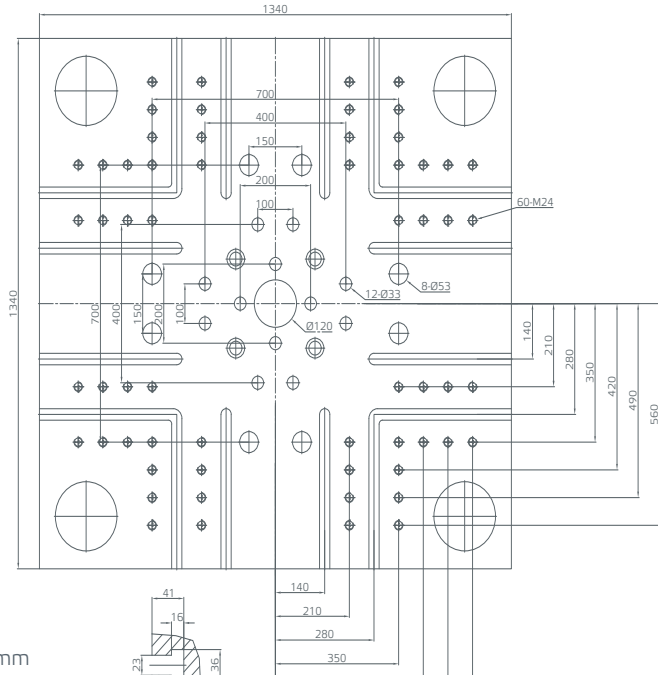
Top view of machine dimension



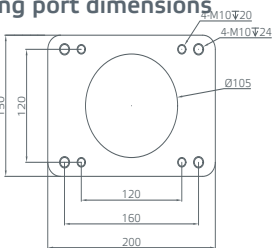
Robot fixed platen dimension



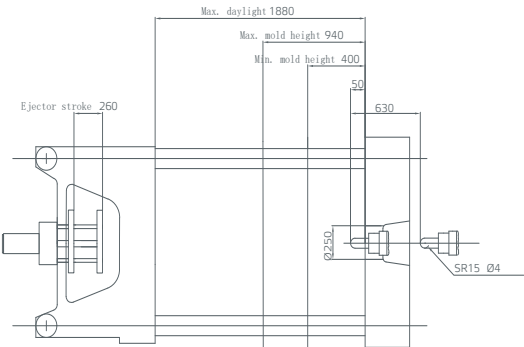
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Parameters

Clamping unit	Unit	NEO-T700		
Clamping force	kN	7000		
Clamping stroke	mm	980		
Space between tie bars	mm	960×960		
Max. mold height	mm	950		
Min. mold height	mm	380		
Ejector stroke	mm	260		
Ejector force	kN	182		
No. of ejector pins	piece	21		
Max. daylight	mm	1930		
Min. mold dimension	mm	672×672		
Platen dimensions (HxV)	mm	1410×1410		
Injection unit	Unit	i5800		
		A	B	C
Screw diameter	mm	85	90	100
Screw L/D ratio	L/D	23.3	22.0	19.8
Shot size (theoretical)	cm³	2684	3009	3715
Injection weight (PS)	g	2442	2738	3381
Injection pressure	MPa	202.9	180.9	146.6
Injection rate into air	g/s	552	619	764
Screw speed	rpm	126		
Max. injection speed	mm/s	107		
Injection stroke	mm	473		
Others	Unit	i5800		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	51+32		
Heater power	kW	44		
Hopper capacity	kg	100		
Oil tank volume	L	800		
Total machine weight	t	30		
Machine dimension(LxWxH)	m	10x2.19x2.87		

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

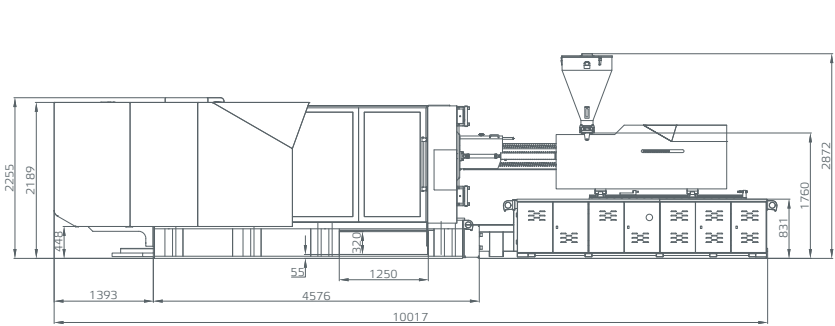
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

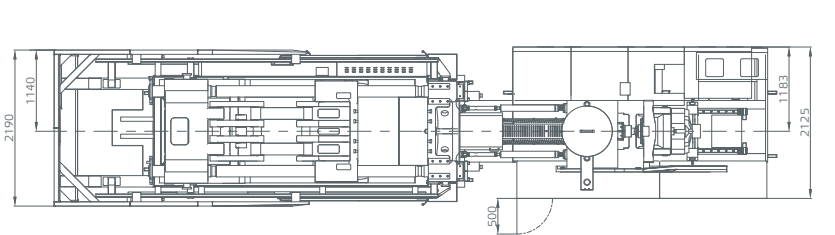
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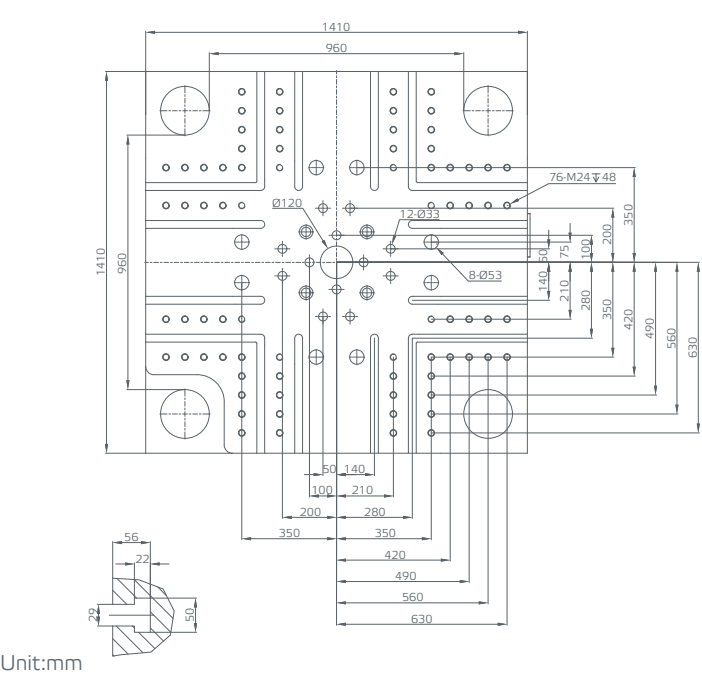
Front view of machine dimension



Top view of machine dimension

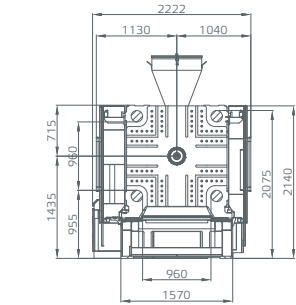


Moving platen dimension

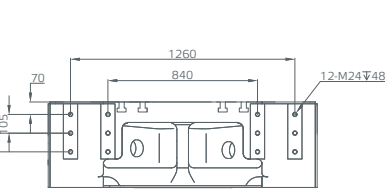


Unit:mm

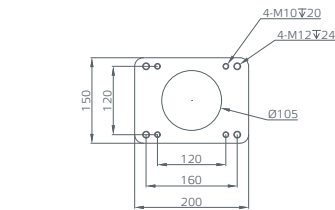
Robot installation dimension



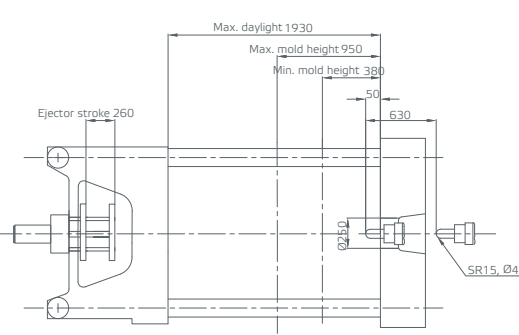
Robot fixed platen dimension



Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T800		
Clamping force	kN	8000		
Clamping stroke	mm	1050		
Space between tie bars	mm	1020×1020		
Max. mold height	mm	1000		
Min. mold height	mm	400		
Ejector stroke	mm	300		
Ejector force	kN	182		
No. of ejector pins	piece	21		
Max. daylight	mm	2050		
Min. mold dimension	mm	714x714		
Platen dimensions (HxV)	mm	1490x1490		
Injection unit	Unit	i7500		
		A	B	C
Screw diameter	mm	90	100	110
Screw L/D ratio	L/D	24.4	22.0	20.0
Shot size (theoretical)	cm³	3276	4045	4894
Injection weight (PS)	g	2981	3681	4454
Injection pressure	MPa	222.4	180.2	148.9
Injection rate into air	g/s	612	756	915
Screw speed	rpm	112		
Max. injection speed	mm/s	106		
Injection stroke	mm	515		
Others	Unit	i7500		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	61+40		
Heater power	kW	56		
Hopper capacity	kg	100		
Oil tank volume	L	980		
Total machine weight	t	36.5		
Machine dimension(LxWxH)	m	10.7x2.27x3.03		

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 from the injection volume and the typical melt density of polystyrene

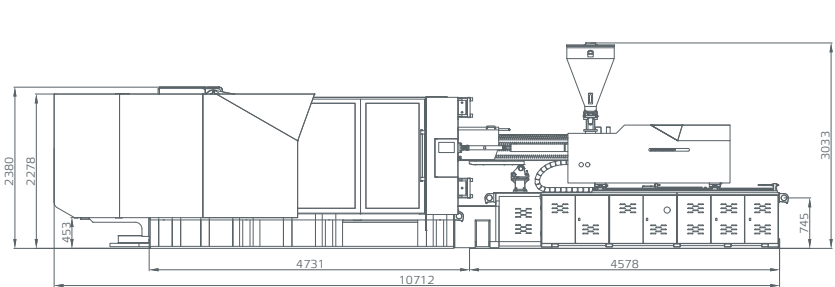
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

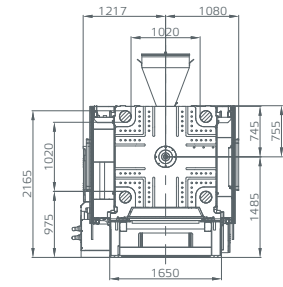
We reserves the right to interpret this technical parameter and reserves the right to modify or update this technical parameter at any time without further notice.

If the technical parameters of the cost do not match the actual product due to technological improvement, the contract and technical agreement shall prevail, and this technical parameter shall not be used as a basis.

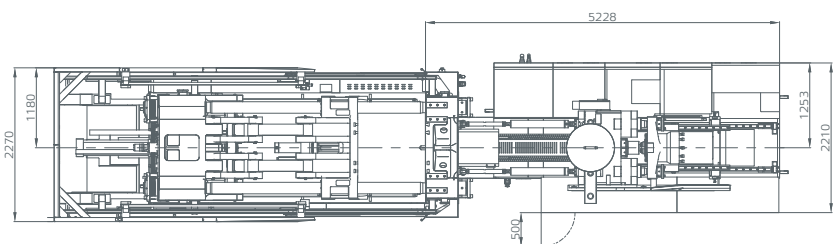
Front view of machine dimension



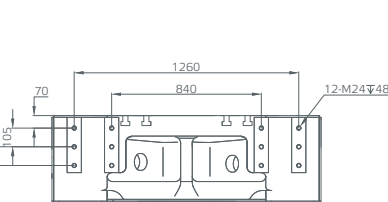
Robot installation dimension



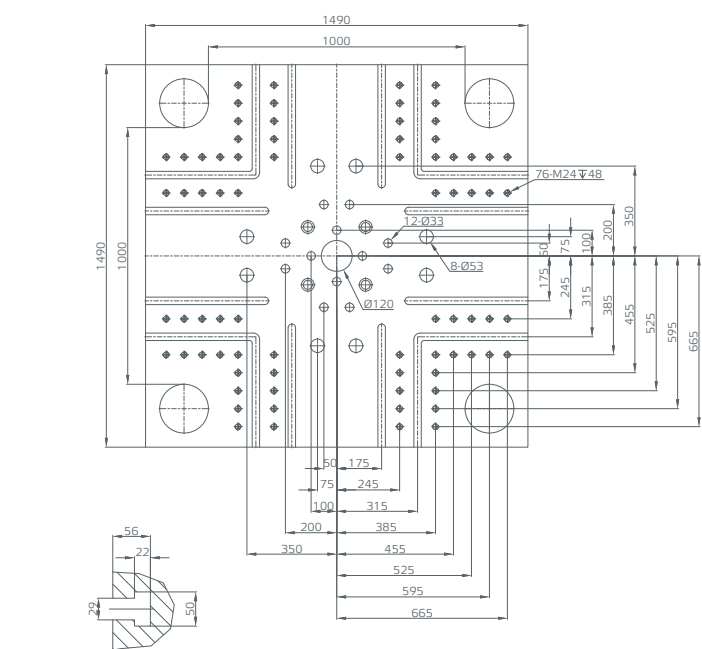
Top view of machine dimension



Robot fixed platen dimension

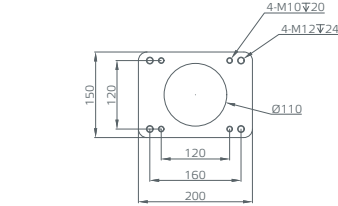


Moving platen dimension

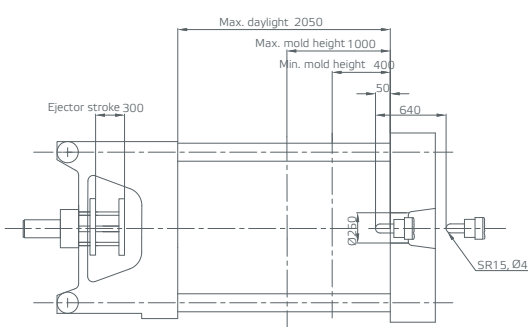


Unit:mm

Feeding port dimensions



Clamping unit



NEO-T

Parameters

Clamping unit	Unit	NEO-T1050		
Clamping force	kN	10500		
Clamping stroke	mm	1230		
Space between tie bars	mm	1160×1160		
Max. mold height	mm	1160		
Min. mold height	mm	500		
Ejector stroke	mm	350		
Ejector force	kN	269		
No. of ejector pins	piece	21		
Max. daylight	mm	2390		
Min. mold dimension	mm	812x812		
Platen dimensions (HxV)	mm	1680x1680		
Injection unit	Unit	i9500		
		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	782	947	1127
Screw speed	rpm	100		
Max. injection speed	mm/s	109		
Injection stroke	mm	550		
Others	Unit	i9500		
Max. pump pressure	MPa	17.5		
Pump motor power	kW	40×3		
Heater power	kW	63		
Hopper capacity	kg	100		
Oil tank volume	L	1100		
Total machine weight	t	48.3		
Machine dimension(LxWxH)	m	11.7x2.5x2.93		

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

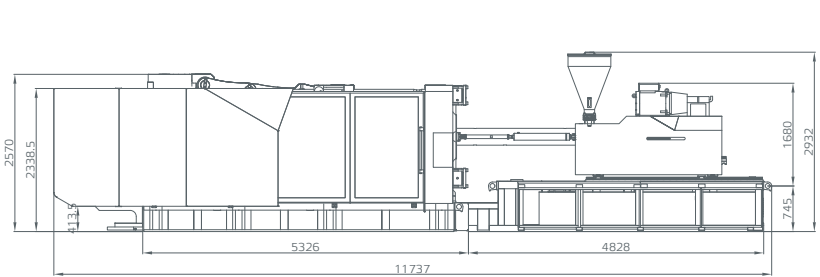
The screw speed is the theoretical maximum screw speed.

Please inform us if you have requirement for engineering material like PVC, PMMA or some special requirement.

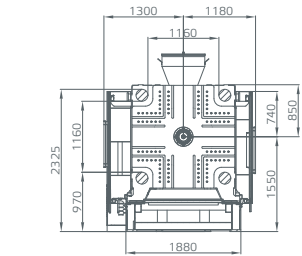
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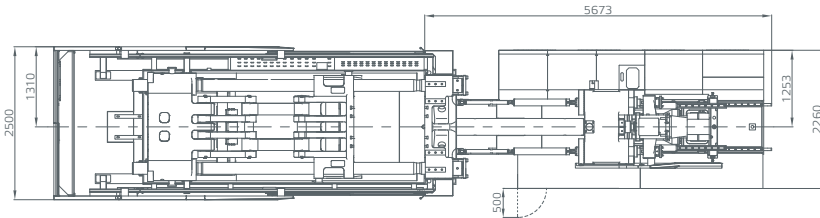
Front view of machine dimension



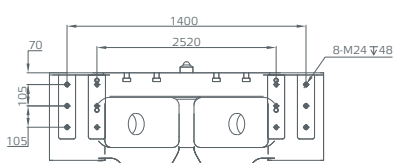
Robot installation dimension



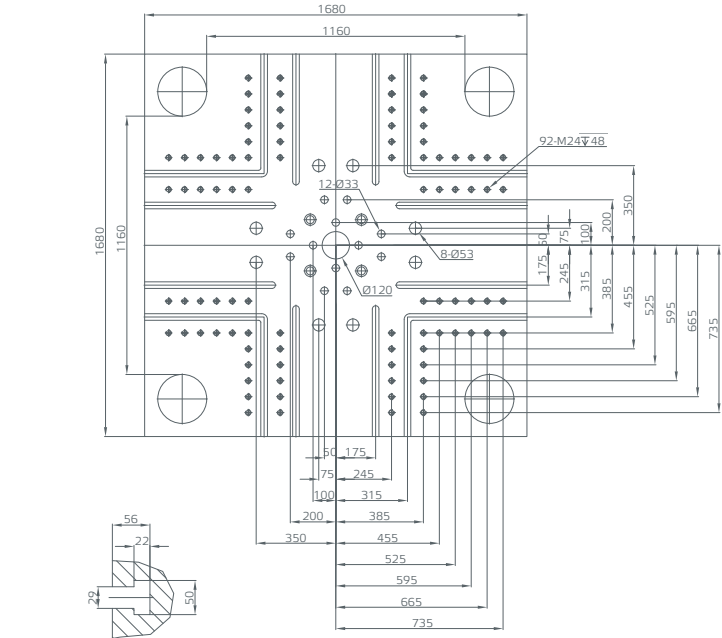
Top view of machine dimension



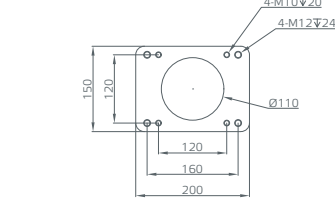
Robot fixed platen dimension



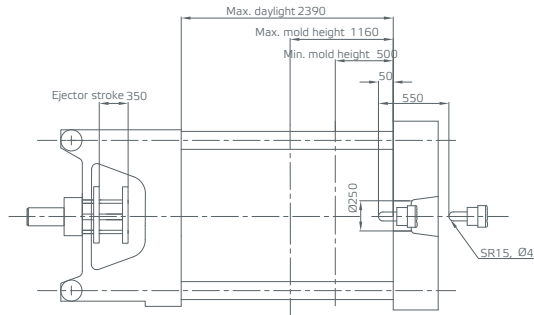
Moving platen dimension



Feeding port dimensions



Clamping unit



Unit:mm

NEO-T

Components & functions list

For clamping

Function description /Clamping unit	NEO-T90-NEO-T360	NEO-T400-NEO-T1050
High rigidity 5 points-doubt toggle structure	●	●
Screw platen	○	○
T-slot platen+Screw platen	●	●
Platen (Euromap 2 size)	○	○
Locating ring on moving platen	●	●
Mechanical,electric and hydraulic safety	●	●
Automatic central lubricating system for toggle	●	●
Automatic Central lubrication system for mould adjust	●	●
Auto safety door		○
Various eject function	●	●
Low pressure mold protection	●	●
One button automatic mold adjustment	●	●
Self-lock mold adjust motor	●	●
Self-locking mold height adjustment valve		
Compulsory ejector -back function	●	●
Quick change of central eject pin	●	●
Transducer on moving platen	●	●
Adjustable supporting feet for moving platen	●	●
High rigidity sliding belt for moving platen	●	●
Euromap 18 robot interface	●	●
Mechanical position limitation for moving platen	○	○
Fast connecting water regulator	●	●
2 groups of core pulling valve	●	●
4 groups of core pulling valve	○	○
2 groups of air blaster valve	●	●
Glass water regulation	○	○
Proportional mold open/close valve	○	○

● Standard ○ Optional

For injection

Function description/ Injection unit	i380-i600	i850-i1900	i2500-i5800	i7500-i19500
Standard nitriding screw and barrel	●	●	●	●
Specialized screw and barrel	○	○	○	○
Shut off nozzle	○	○	○	○
Double injection cylinder structer	●	●	●	●
Double carriage cylinder injection unit	○	●	●	●
Double stage linear guid injection structure	●	●	●	●
Carriage transducer	●	●	●	●
Screw rotation speed display	●	●	●	●
Proportional injection valve	○	○	○	○
Hydraulic plasticizing	●	●	●	●
Electrical plasticizing	○	○	○	○
Proportional back pressure control	●	●	●	●
Cold start protection	●	●	●	●
Material self- cleaning function	●	●	●	●
Temprature monitor for feeding throat	○	○	○	○
Feeding throad temprature close loop control	○	○	○	○
Barrel overheating protection	●	●	●	●
Nozzle cover	●	●	●	●
Self-lock valve for carraige	●	●	●	●
Barrel supporting device				●
Material loading platform			○	○
Manual central lubricating device for carriage	●	●	●	●
Carriage central auto lubrication device	○	○	○	○
Mica heating band	●	●	●	
Ceramic heating band	○	○	○	●
Nano infrared heating band	○	○	○	○
Wheel sliding hopper	●	●	●	●
Stainless hopper	●	●	●	●

● Standard ○ Optional

NEO-T

Components & functions list

For electric

Function description/ Injection unit	i380-i4800	i5800-i9500
Techmation conroller	●	●
KEBA controller	○	○
Real time running monitoring function	●	●
Production monitoring function	●	●
Alarm display	●	●
Time/Position control for the injection to pressure hold	●	●
Pressure control from injection to pressure hold	○	○
I/O monitoring display	●	●
Tri-color alarm	●	●
Motor overload protection	●	●
Emergency stop on front/rear door	●	●
380V/16A 5 pin socket *1	○	○
380V/16A 5 pin socket *2 220V/16A 3 pin socket *1	●	
380V/32A 5 pin socket *2 380V/16A 5 pin socket *1 220V/16A 3 pin socket *1	○	●
Transformer for servomotor system	○	○
Euromap 12 robot interface (with one core control)	○	○
Euromap 67 robot interface (with two core control)	○	○
Euromap 13 neutron connection	○	○
Double protection for heating	●	●
Safety relay monitoring	●	●
SSR heating control	●	●
Network centralized control system	○	○
Instant power consumption display	○	○
Instant clamping force display	○	○

● Standard ○ Optional

For hydraulic

Function description / Clamping unit	NEO-T90-NEO-T1050
Fast response servo system	●
Upgrade screw motor	○
Bi-pass oil filter	●
Hydraulic safety device	●
Carriage self lock valve	●
Self lock motor	●
Self-locking mold height adjustment valve	
Mold close control valve	●
Mold open shock mitigation device	●
Injection pressure relief device	●
Programmable injection sequence	○
Cooling water valve	○
Non-welding hydraulic pipe	●
Temprature monitering	●
Oil level alarm	●
Oil self -suction filter	●
Protective link for hoses	●
Proportional injection valve	○
Injection servo valve	○
Proportional valve for mould open / close	○
2 groups of core pulling	●
4 groups of core pulling	○
2 groups pf air balster	●
Ejector on-the-fly	○
Plasticize on-the-fly	○
Plasticizing & ejector on the fly	○

For other

Function description / Other	NEO-T90-NEO-T320	NEO-T400-NEO-T1050
Standard tederic color	●	●
Leveling pad	●	●
Foundation steel plate, Foundation anchor bolts		
Spare parts, regular tools, mold clamper, extended nozzle, operation manual	●	●
Robot	○	○
Magnetic grate	○	○
Chiller	○	○
Mold temprature controller	○	○
Dehumidifyer	○	○
Auto loader	○	○
Fumigation wood frame	○	○
Hydraulic oil	○	○
Product platform		○

● Standard ○ Optional