

ZEV-F

ZERES Series

Zhafir High-speed Injection Molding Machine
1,500 - 6,500 kN



-TECHNICAL SPECIFICATION-

TECHNOLOGY TO THE POINT



SMART
TECHNOLOGY



FLEXIBLE
INTEGRATION



SUSTAINABLE
SOLUTIONS

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ZEV-F Series

After 20 years of experience in high-speed packaging injection molding production lines, Zhair has combined the latest fifth-generation intelligent technology platform and high-reliability design to achieve excellent performance in high-speed, stability, durability, and energy efficiency of high-speed injection molding machines. It has created a new generation of high-speed injection molding solutions that leap forward in speed, precision, and lifespan.

Food Packaging

For plastic packaging in the FMCG industry The product provides efficient and high-quality application solutions, which can Produce thinner, lighter, and more stable products



Disposable Medical Supplies

For the cylindrical series of products, precise flow control is employed to ensure the accuracy of product dimensions and structure, Meet the high precision requirements of the product



Packaging for civilian products

For thin-walled products with relatively long flow lengths, even using mixed materials can meet the requirements of short production cycles and long-term continuous production, achieving high process stability



Thin-wall Plastic Products

For the price-sensitive market segment, we offer more efficient and energy-saving application solutions

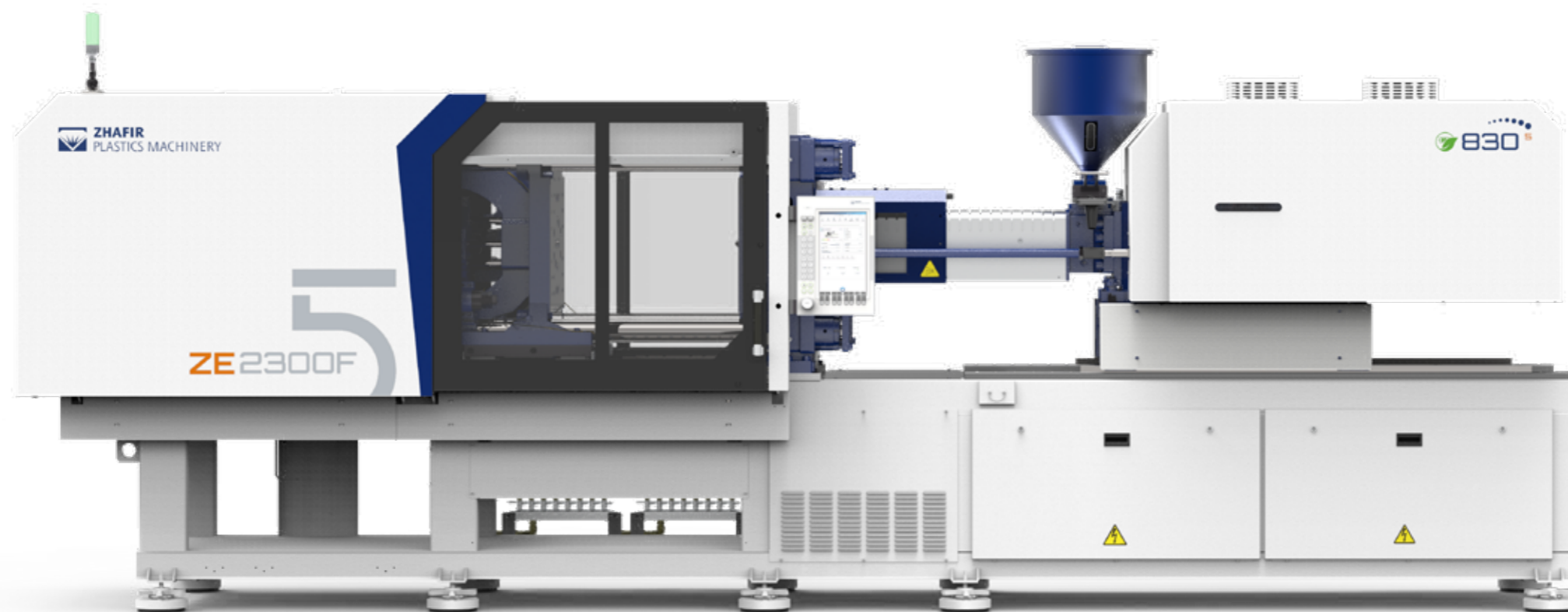


ZEV-F Series

High-speed and intelligent, leading the era!

Through thorough analysis of high-speed packaging production site conditions, we have achieved revolutionary optimization and iteration of machine structure design.

Compared to the previous generation, the dry cycle period has been shortened by an average of 20%, and the maximum size of the mold that can be accommodated has increased by 18%



1

High speed production

- The maximum injection speed has been increased to 500mm/s
- The mold opening and closing speed has exceeded 1300mm/s
- The ejection speed is increased to 400mm/s

2

Stability performance

- The vibration of the mold opening and closing system is reduced by 10%
- The operation dry cycle period is shortened by 20%
- Thin-wall injection performance is improved by 40%
- Intelligent mold protection function

3

Durable and reliable

- Mold life is extended by more than 10%
- Smart lubrication system
- Innovative cooling system
- Maintenance reminder

4

Energy saving and efficient

- Dual CPU independent collaborative computing, with computing power increased by 200%
- Drive technology driven by a brand-new concept
- Intelligent energy consumption management

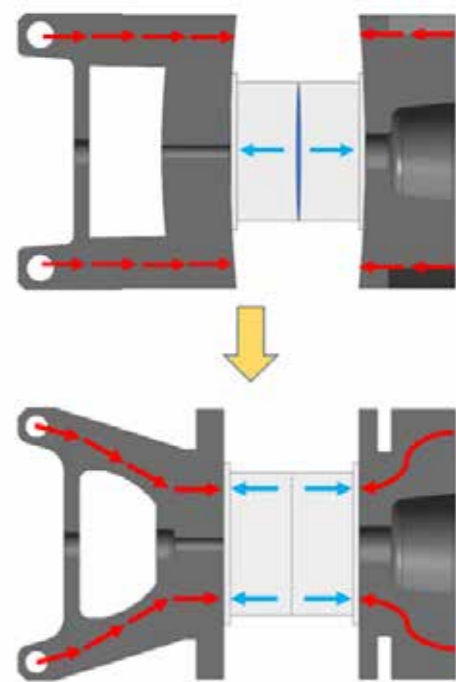
ZEV-F Series

Strong support, stable operation!

High-rigidity template structure, paired with a high-rigidity machine body, provides heavy-duty anti-vibration stability like a rock, ensuring 24-hour continuous production without speed reduction!

Counterflow monitoring: Millisecond-level closed-loop detection of counterflow, with injection weight fluctuation $\leq 0.1\%$.

Intelligent mold protection: 0.01mm-level abnormal perception + 0.05 second extreme braking, reducing the risk of mold damage.



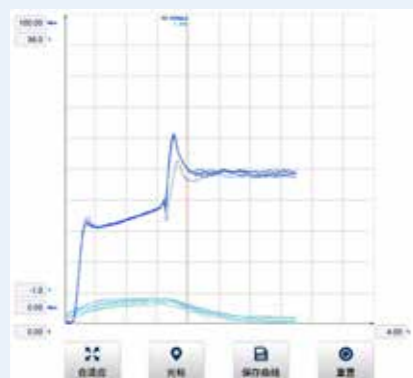
Innovative template structure:

Technical highlights:

Enhanced rigidity structure of the template, reducing deformation by 50% under heavy-load conditions; patented design of the pressure center template precisely guides stress distribution, increasing the concentration of clamping force by 30%.

Value Delivered to Customers:

The mold experiences uniform stress, resulting in a 30% reduction in the occurrence of burrs at the center of multi-cavity molds.



PDC precision metering and counterflow monitoring:

Technical highlights:

Real-time detection of resin backflow ensures that the timing of each closure of the check valve is consistent. High-precision sensors, waveform charts, and data statistics provide comprehensive protection for the molding process.

Value Delivered to Customers:

The weight stability of the product has been significantly improved, and the analysis time for molding issues has been reduced.

Enriched Body design:

Technical highlights:

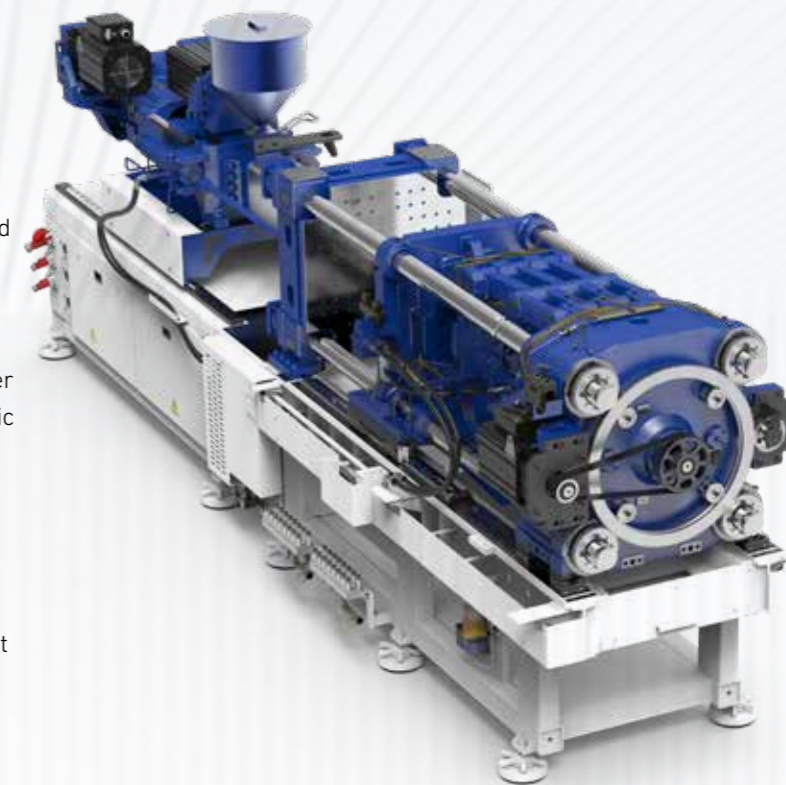
Innovative balanced moving plate support design, with an average improvement of 10% in template parallelism. The average vibration during high-load operation is reduced by 10%.

The key parts of the machine body are reinforced with a strengthened frame, which reduces the average deformation of the guide rail by 30% under extreme load conditions and enhances the dynamic load-bearing capacity by 30%.

Value Delivered to Customers:

The mold operates more stably, and the yield rate of thin-walled parts molding has been further improved.

Continuous 24-hour heavy-load production without speed reduction, extending mold life.



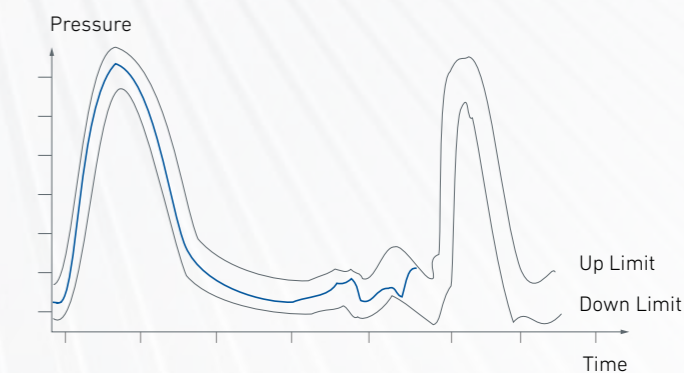
AI Smart Model Protection:

Technical highlights:

Real-time torque protection, AI self-learning function, automatic identification of mold changes, adjustment of protection limits, achieving real-time protection function. High-precision load deviation detection at the 0.01mm level, with a response time of ≤ 0.05 seconds, and industry-leading closed-loop control.

Value Delivered to Customers:

Reduce the risk of mold damage, and both mold operation rate and equipment utilization rate are soaring!



ZEV-F Series

High efficiency and low consumption, pioneer of environmental protection

With the latest energy-saving heating technology, the thermal efficiency is increased by 40%, and the heating energy consumption is reduced by an average of 30%!

Driven by a brand-new concept in technology, the electric energy recycling rate reaches 95%, and the standby power consumption is directly reduced by 70%!

AI dynamically tracks load demand and monitors energy consumption curves in real time, ensuring every kilowatt-hour is spent transparently!

Intelligent clamping force: intelligently calculating the optimal clamping force, reducing energy consumption, extending mold life, and saving real profit space!



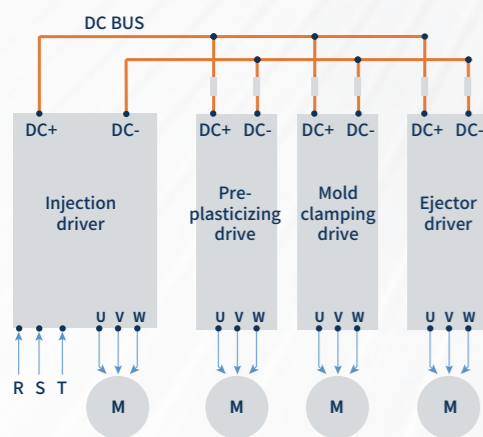
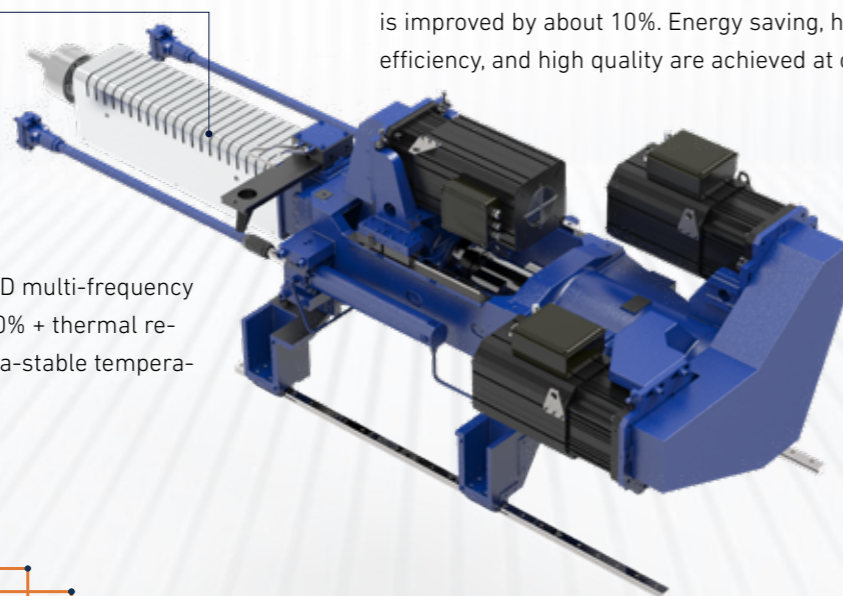
Energy-saving heating technology:

Technical highlights:

energy-saving heating technology + PID multi-frequency algorithm, heating energy saving by 30% + thermal response speed-up by 50% + $\pm 0.5^{\circ}\text{C}$ ultra-stable temperature control

Customer benefits:

The average heating energy consumption is reduced by 30%, and the plasticizing efficiency is improved by about 10%. Energy saving, high efficiency, and high quality are achieved at once!



Brand-new concept drive and control technology:

Technical highlights:

Utilizing busbar technology, synergistic energy recycling, achieving an energy efficiency of up to 95%, employing a dynamic load balancing algorithm, with synchronization error $\leq 0.1\text{ ms}$, ensuring "zero waste" of electric energy and "zero fluctuation" in production!

Customer benefits:

Eliminate power fluctuation interference, operate 24 hours without fear of voltage fluctuations, save energy and ensure stable production!

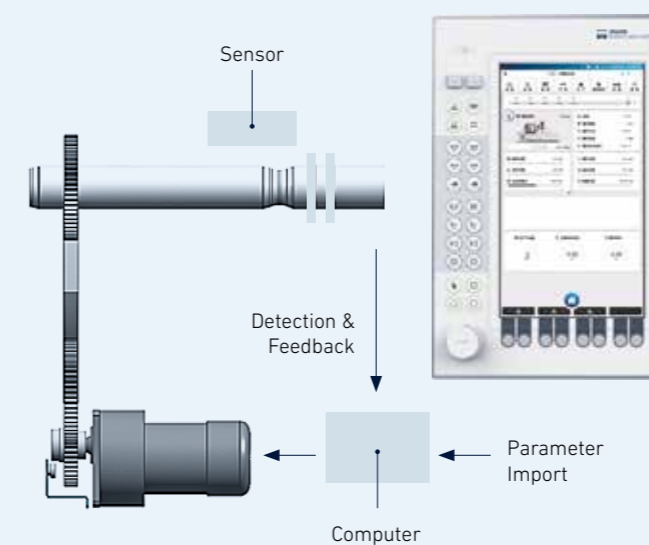
Intelligent energy consumption management:

Technical highlights:

Original intelligent monitoring algorithm, visual energy efficiency dashboard, real-time tracking of overall energy consumption fluctuations, with unit power consumption and time-segment trends at a glance!

Customer benefits:

No more hiding in the electricity bill black hole, improved overall energy efficiency in the workshop, and scientific decision-making data for production scheduling!



OFC intelligent clamping force:

Technical highlights:

Intelligently adjust the clamping force to the optimal range, and perform real-time correction through closed-loop control.

Value Delivered to Customers:

Breaking through the traditional "mode-locking" problem, the clamping force is reduced by an average of 15%, with clamping force fluctuation $\leq \pm 1.5\%$. This results in extended mold life and reduced equipment wear.

TECHNICAL DATA ZE1500 V -F

CLAMPING UNIT	Clamping force	kN	1500					
	Mold opening stroke	mm	420					
	Mold height min.	mm	180					
	Mold height max.	mm	520					
	Total daylight max.	mm	940					
	Dist. Between tie-bars (H×V)	mm	520×520					
	Size of mold platen (H×V)	mm	740×740					
INJECTION UNIT	Mold dimension min.	mm	335×335					
	Ejector stroke	mm	120					
	Ejector force	kN	33					
			A	B	C(op) ³	A	B	C(op) ³
	Screw diameter	mm	36	40	45	40	45	50
	Screw L/D ratio	L/D	25	25	25	25	25	25
	Injection volume (theoretical)	cm ³	173	213	270	252	319	394
	Screw speed	rpm		400		350		
	Plasticizing rate ¹	g/s	43	54	68.6	47.3	60	74.4
	Nozzle contact force	kN		65		65		
			430h			640h		
	Injection speed	mm/s		350		350		
	Injection rate ²	cm ³ /s	341	422	534	422	534	659
Injection pressure	Mpa	247	200	158	253	200	162	
	Bar	2470	2000	1580	2530	2000	1620	
		430hs			640hs			
Injection speed	mm/s		500		500			
Injection rate ²	cm ³ /s	488	602	763	602	763	942	
Injection pressure	Mpa	247	200	158	253	200	162	
	Bar	2470	2000	1580	2530	2000	1620	
OTHERS	Connection power	kW/A	430h: 37KW/62A 430hs:51KW/86A			640h: 46KW/77A 640hs:61KW/102A		
	Heating power	kW	17.6	20	21.8	20.7	24.9	26.3
	Machine dimension	m	5.92×1.41×2.21			6.12 ×1.41×2.21		
	Machine weight	t	-			-		
	Hopper capacity(OP)	l	25			25		
	Pressure	MPa	17.5			17.5		
	Flow	l/min	48.1			48.1		
	Oil tank	l	78			78		

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zhafr standard.

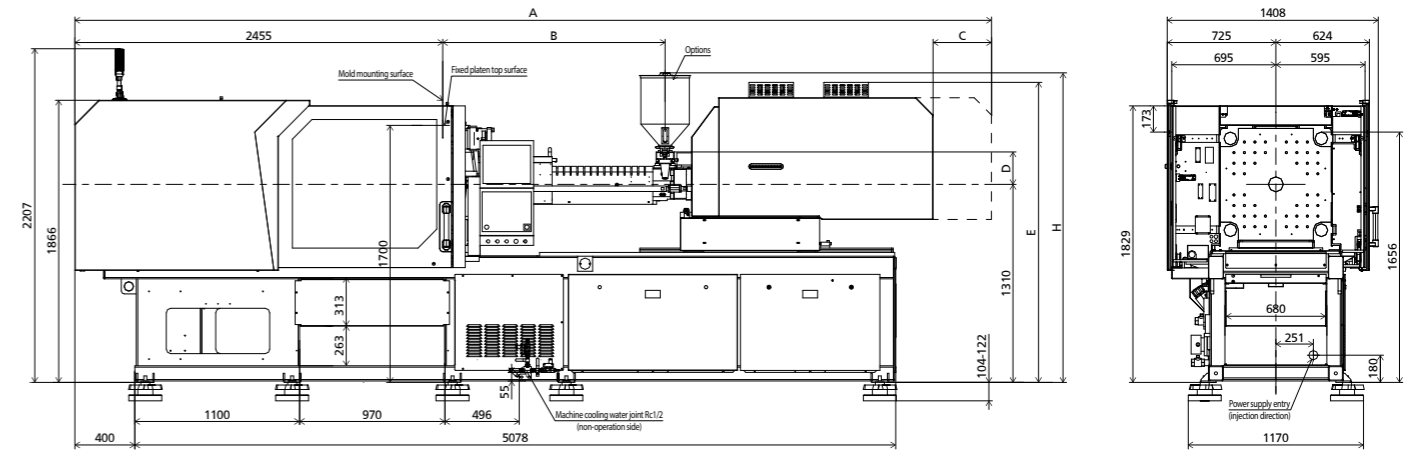
² Theoretical calculation value of max. injection speed.

³ Op means optional plasticizing component.

* 1MPa=10.2kgf/cm², 1kN=0.102tf

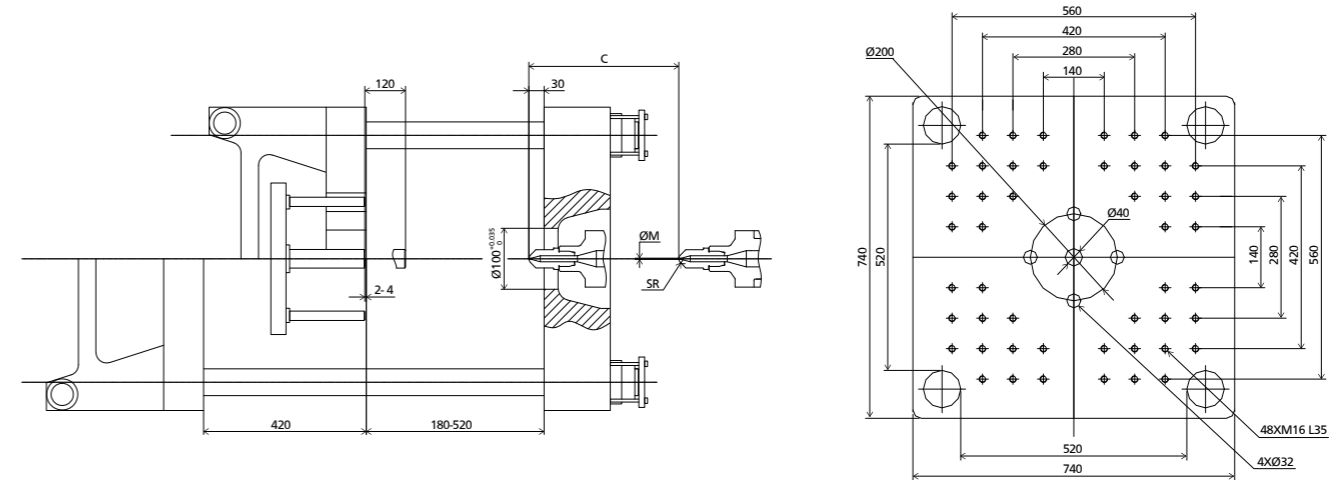
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MACHINE DIMENSIONS

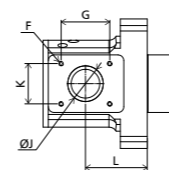


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
430h, 430hs	5683/5800/5920	1088/1205/1325	390	224	1985	4×M8 L10	70	2058	135	65	85	104	Ø4	SR10
640h, 640hs	5845/6010/6122	1212/1377/1489	390	214	1985	4×M8 L10	70	2048	125	65	85	141.5	Ø4	SR10

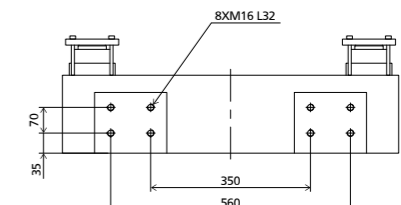
PLATEN DIMENSIONS



OTHERS DIMENSIONS



HOPPER MOUNTING DIMENSION



ROBOT TOP VIEW FIXED PLATEN

TECHNICAL DATA ZE1900 V-F

CLAMPING UNIT							
Clamping force	kN	1900					
Mold opening stroke	mm	470					
Mold height min.	mm	200					
Mold height max.	mm	550					
Total daylight max.	mm	1020					
Dist. Between tie-bars (H×V)	mm	570×570					
Size of mold platen (H×V)	mm	800×800					
Mold dimension min.	mm	370×370					
Ejector stroke	mm	150					
Ejector force	kN	55					
INJECTION UNIT		A	B	C(op) ³	A	B	C(op) ³
Screw diameter	mm	40	45	50	45	50	55
Screw L/D ratio	L/D	25	25	25	25	25	25
Injection volume (theoretical)	cm ³	252	319	394	333	412	498
Screw speed	rpm	350			320		
Plasticizing rate ¹	g/s	47.3	60	74.4	55	68	86
Nozzle contact force	kN	65			85		
INJECTION UNIT		640h			830h		
Injection speed	mm/s	350			350		
Injection rate ²	cm ³ /s	422	534	659	534	659	797
Injection pressure	Mpa	253	200	162	247	200	165
	Bar	2530	2000	1620	2470	2000	1650
INJECTION UNIT		640hs			830hs		
Injection speed	mm/s	500			500		
Injection rate ²	cm ³ /s	602	763	942	763	942	1139
Injection pressure	Mpa	253	200	162	247	200	165
	Bar	2530	2000	1620	2470	2000	1650
OTHERS		640h: 46KW/77A 640hs:61KW/102A			830h: 56KW/95A 830hs:76KW/128A		
Connection power	kW/A						
Heating power	kW	20.7	24.9	26.3	27.1	32	34.1
Machine dimension	m	6.41×1.52×2.29			6.76×1.52×2.29		
Machine weight	t	-			-		
Hopper capacity(OP)	l	25			50		
Pressure	MPa	17.5			17.5		
Flow	l/min	79.5			79.5		
Oil tank	l	107			107		

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zhafr standard.

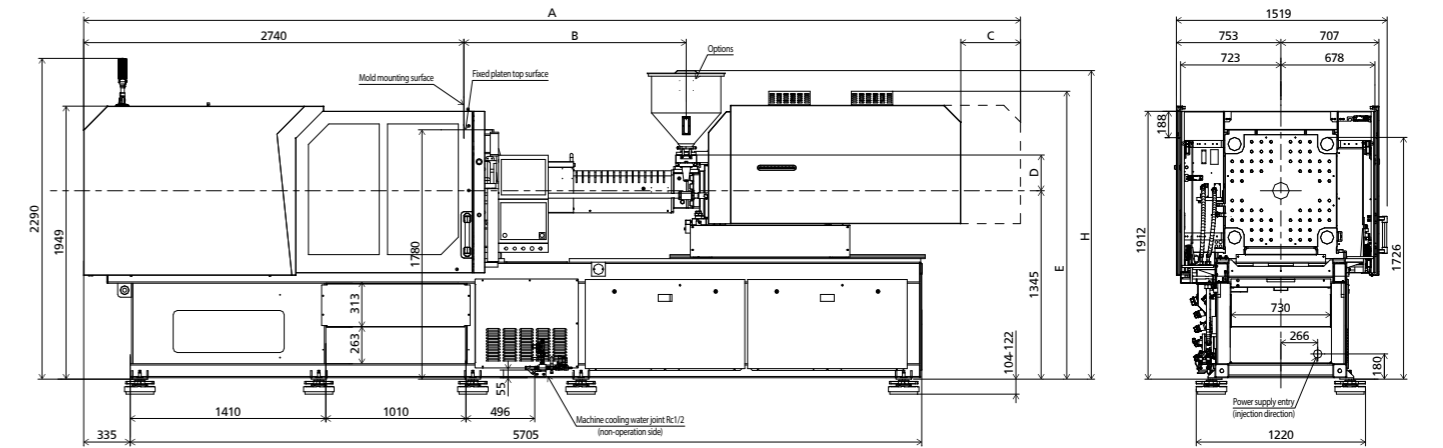
² Theoretical calculation value of max. injection speed.

³ Op means optional plasticizing component.

* 1MPa=10.2kgf/cm², 1kN=0.102tf

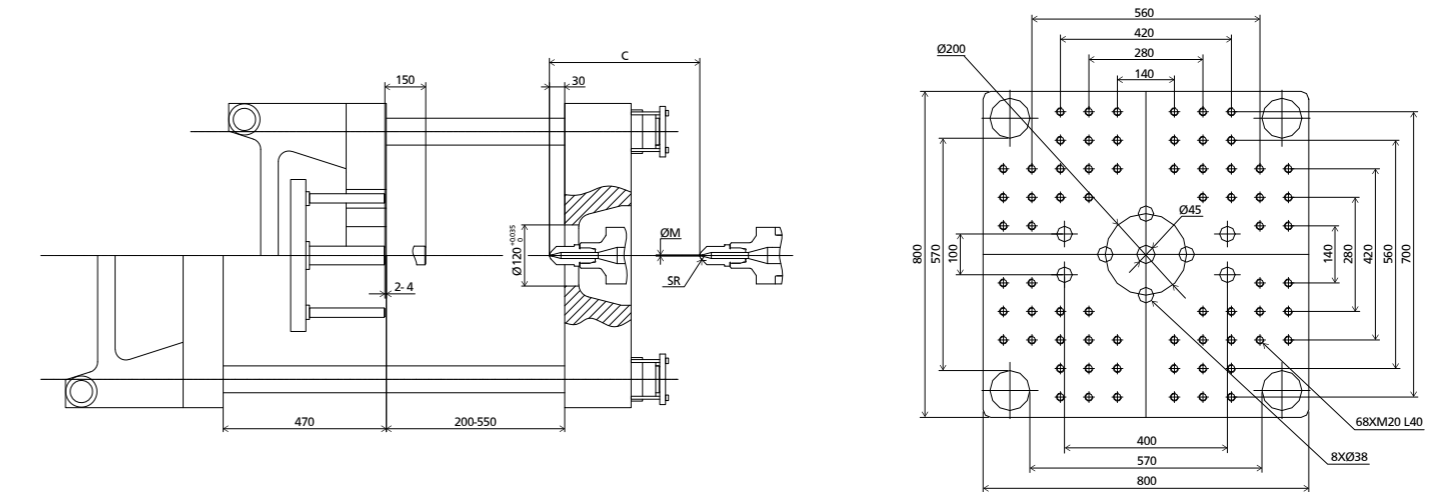
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MACHINE DIMENSIONS

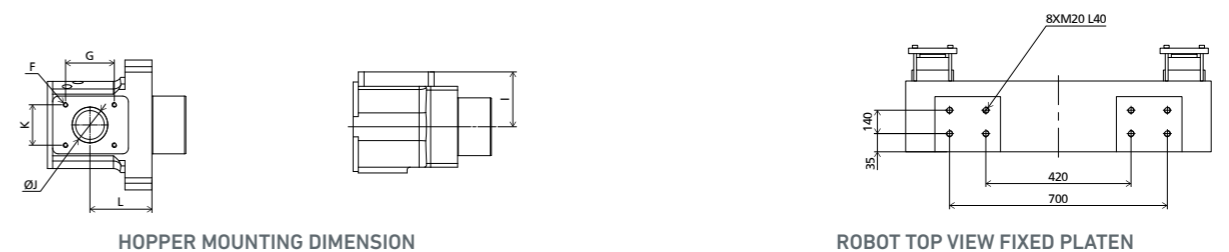


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
640h, 640hs	6130/6295/6407	1212/1377/1489	390	214	2020	4×M8 L10	70	2083	125	65	85	141.5	Ø4	SR10
830h, 830hs	6482/6652/6749	1334/1504/1601	430	255	2056	4×M10 L20	115	2203	153	65	115	122.5	Ø4	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



TECHNICAL DATA ZE2300 V-F

CLAMPING UNIT	Clamping force	kN	2300					
	Mold opening stroke	mm	550					
	Mold height min.	mm	220					
	Mold height max.	mm	600					
	Total daylight max.	mm	1150					
	Dist. Between tie-bars (H×V)	mm	620×620					
	Size of mold platen (H×V)	mm	880×880					
	Mold dimension min.	mm	400×400					
	Ejector stroke	mm	150					
	Ejector force	kN	55					
INJECTION UNIT			A	B	C(op) ³	A	B	C(op) ³
	Screw diameter	mm	45	50	55	50	55	60
	Screw L/D ratio	L/D	25	25	25	25	25	25
	Injection volume (theoretical)	cm ³	333	412	498	471	570	678
	Screw speed	rpm	320			320		
	Plasticizing rate ¹	g/s	55	68	86	68	86	117.3
	Nozzle contact force	kN	85			85		
	INJECTION UNIT		830h			1100h		
	Injection speed	mm/s	350			350		
	Injection rate ²	cm ³ /s	534	659	797	659	797	949
Injection pressure	Mpa	247	200	165	230	190	159	
	Bar	2470	2000	1650	2300	1900	1590	
INJECTION UNIT		830hs			1100hs			
Injection speed	mm/s	500			500			
Injection rate ²	cm ³ /s	763	942	1139	942	1139	1356	
Injection pressure	Mpa	247	200	165	230	190	159	
	Bar	2470	2000	1650	2300	1900	1590	
OTHERS	Connection power	kW/A	830h: 56KW/95A			1100h: 70KW/117A		
			830hs: 76KW/128A			1100hs: 89KW/149A		
	Heating power	kW	27.1	32	34.1	33.7	40.7	44.2
	Machine dimension	m	6.94×1.64×2.41			7.24×1.64×2.41		
	Machine weight	t	-			-		
	Hopper capacity(OP)	l	50			50		
	Pressure	MPa	17.5			17.5		
	Flow	l/min	79.5			79.5		
Oil tank	l	107			107			

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zhafir standard.

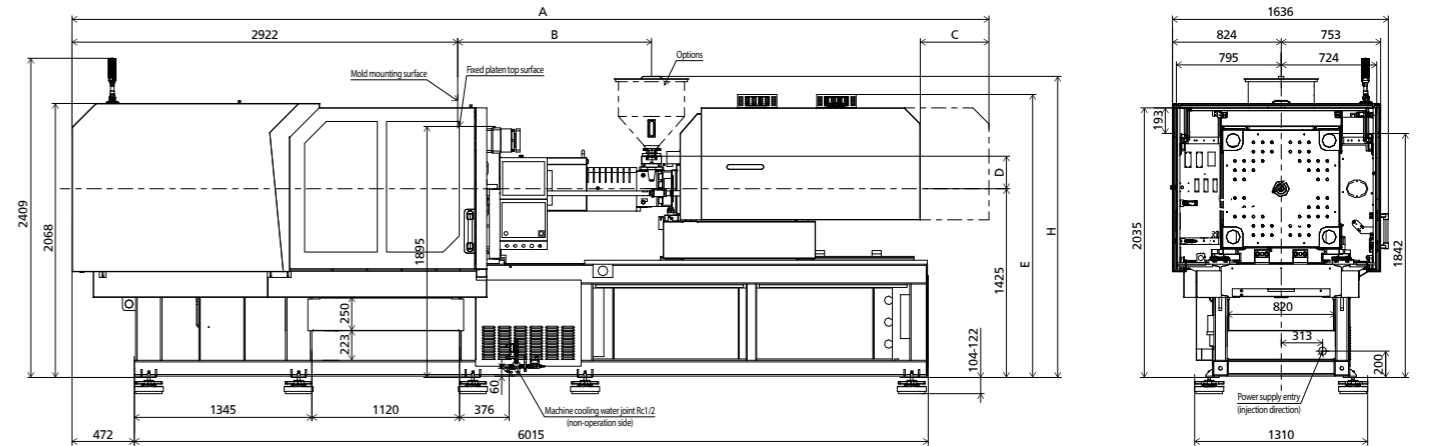
² Theoretical calculation value of max. injection speed.

³ Op means optional plasticizing component.

* 1MPa=10.2kgf/cm², 1kN=0.102tf

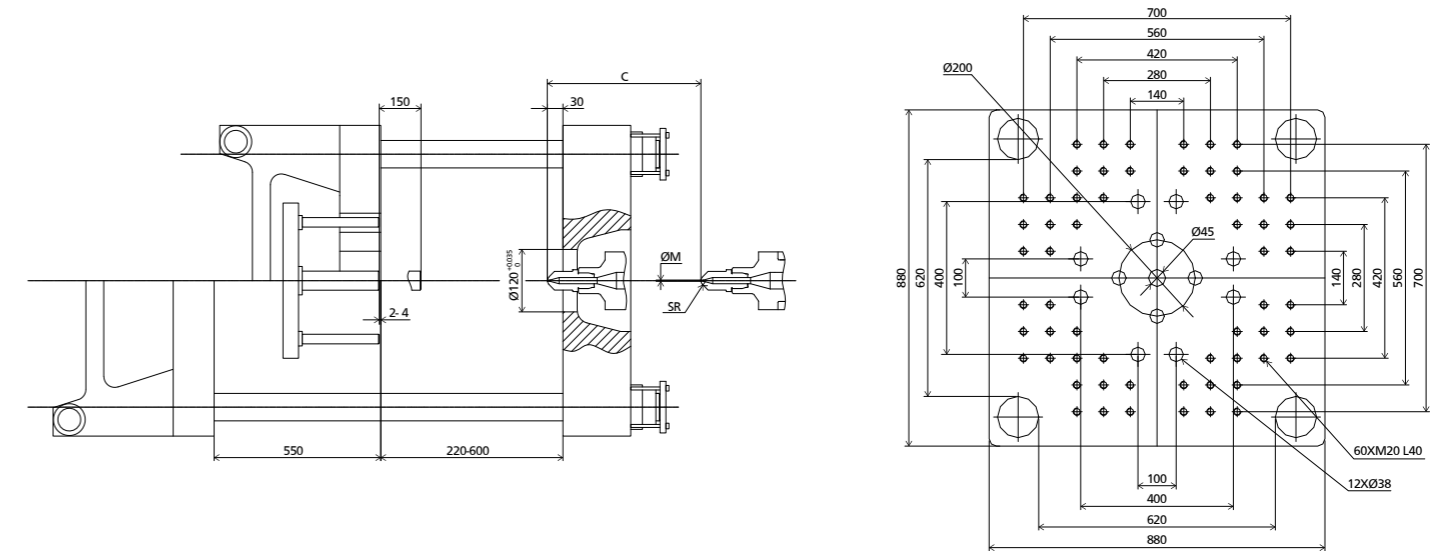
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MACHINE DIMENSIONS

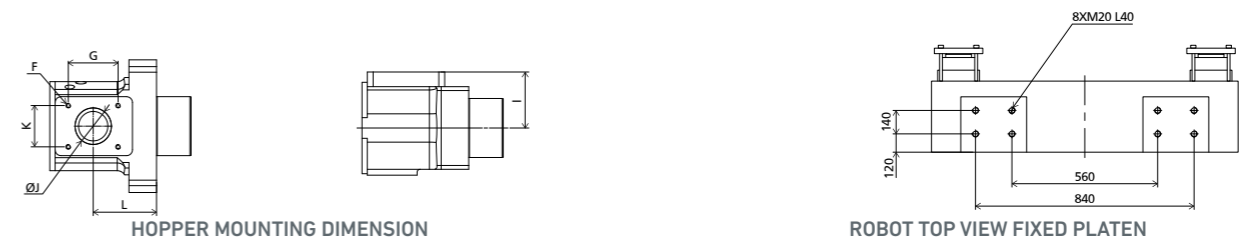


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
830h, 830	6665/6835/6932	1334/1504/1601	430	255	2136	4×M10 L20	115	2283	153	65	115	122.5	Ø4	SR10
1100h, 1100	6947/7127/7240	1469/1649/1762	520	245	2136	4×M10 L20	115	2273	143	82	115	180	Ø4	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



TECHNICAL DATA ZE3000 V -F

CLAMPING UNIT										
Clamping force	kN	3000								
Mold opening stroke	mm	625								
Mold height min.	mm	280								
Mold height max.	mm	650								
Total daylight max.	mm	1275								
Dist. Between tie-bars (H×V)	mm	730×730								
Size of mold platen (H×V)	mm	1030×1030								
Mold dimension min.	mm	470×470								
Ejector stroke	mm	160								
Ejector force	kN	68.6								
INJECTION UNIT		A	B	C(op) ³	A	B	C(op) ³	A	B	C(op) ³
Screw diameter	mm	50	55	60	55	60	65	60	65	70
Screw L/D ratio	L/D	25	25	25	25	25	25	25	25	25
Injection volume (theoretical)	cm ³	471	570	678	617	735	862	791	929	1077
Screw speed	rpm	320			300			260		
Plasticizing rate ¹	g/s	68	86	117.3	80.6	110	144	91.7	120	155
Nozzle contact force	kN	85			85			85		
INJECTION UNIT		1100h			1400h			1700h		
Injection speed	mm/s	350			350			350		
Injection rate ²	cm ³ /s	659	797	949	797	949	1114	949	1114	1292
Injection pressure	Mpa	230	190	159	230	193	164	210	180	155
	Bar	2300	1900	1590	2300	1930	1640	2100	1800	1550
INJECTION UNIT		1100hs			1400hs			1700hs		
Injection speed	mm/s	500			450			450		
Injection rate ²	cm ³ /s	942	1139	1356	1025	1220	1432	1220	1432	1661
Injection pressure	Mpa	230	190	159	230	193	164	210	180	155
	Bar	2300	1900	1590	2300	1930	1640	2100	1800	1550
OTHERS		1100h: 70KW/117A			1400h: 77KW/130A			1700h: 93KW/156A		
		1100hs:89KW/149A			1400hs:91KW/152A			1700hs:106KW/178A		
Connection power	kW/A									
Heating power	kW	33.7	40.7	44.2	41.5	47.1	51.1	45.5	51.1	55.1
Machine dimension	m	7.48×1.89×2.42			7.96×1.89×2.42			8.17×1.89×2.42		
Machine weight	t	-			-			-		
Hopper capacity(OP)	l	50			50			50		
Pressure	MPa	17.5			17.5			17.5		
Flow	l/min	90.3			90.3			90.3		
Oil tank	l	126			126			126		

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zafr standard.

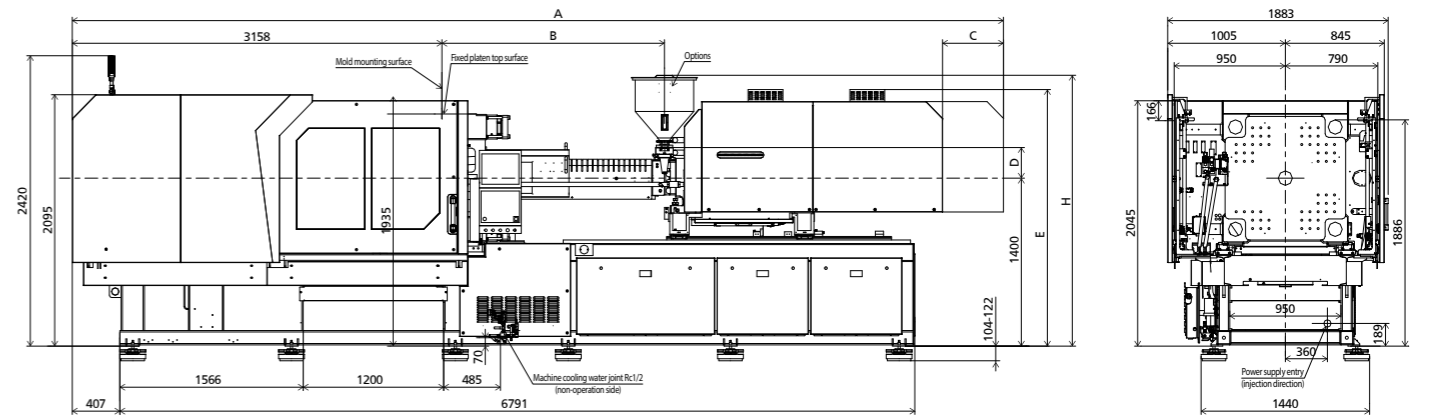
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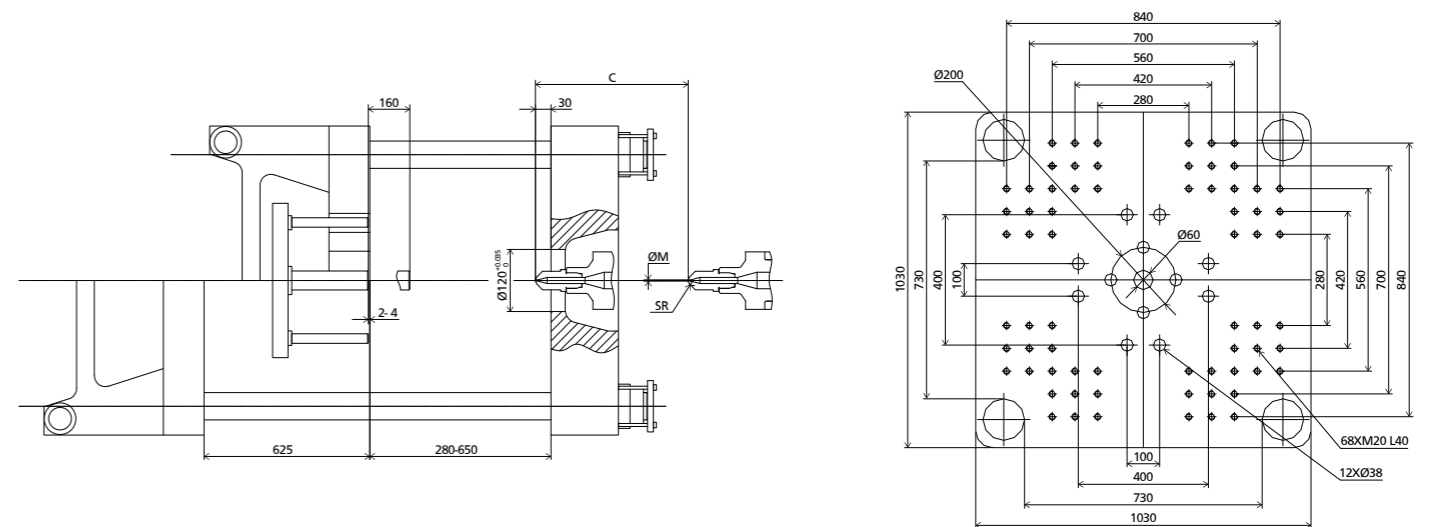
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MACHINE DIMENSIONS

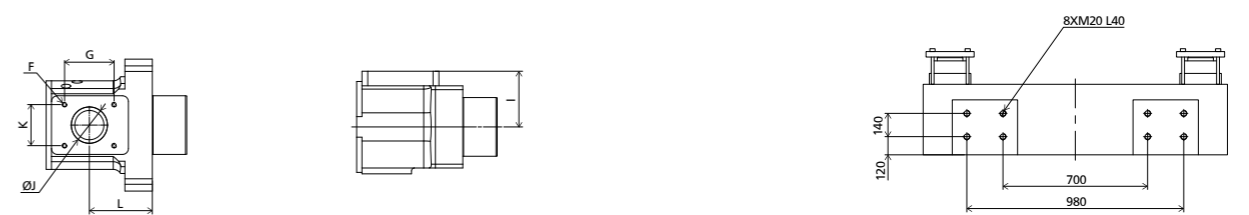


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1100h, 1100hs	7182/7362/7475	1469/1649/1762	520	245	2111	4×M10 L20	115	2248	143	82	115	180	Ø4	SR10
1400h, 1400hs	7673/7834/7955	1620/1781/1902	520	255	2138	4×M10 L20	115	2258	149	82	115	95.5	Ø4	SR10
1700h, 1700hs	7885/8047/8168	1753/1915/2036	560	249	2138	4×M10 L20	115	2251	148	95	115	134.5	Ø4	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



HOPPER MOUNTING DIMENSION

ROBOT TOP VIEW FIXED PLATEN

TECHNICAL DATA ZE3800 V -F

CLAMPING UNIT	Clamping force	kN	3800								
	Mold opening stroke	mm	730								
	Mold height min.	mm	320								
	Mold height max.	mm	710								
	Total daylight max.	mm	1440								
	Dist. Between tie-bars (H×V)	mm	820×820								
	Size of mold platen (H×V)	mm	1140×1140								
Mold dimension min.	mm	540×540									
Ejector stroke	mm	200									
Ejector force	kN	68.6									
INJECTION UNIT			A	B	C(op) ³	A	B	C(op) ³	A	B	C(op) ³
	Screw diameter	mm	50	55	60	55	60	65	60	65	70
	Screw L/D ratio	L/D	25	25	25	25	25	25	25	25	25
	Injection volume (theoretical)	cm ³	471	570	678	617	735	862	791	929	1077
	Screw speed	rpm	320			300			260		
	Plasticizing rate ¹	g/s	68	86	117.3	80.6	110	144	91.7	120	155
	Nozzle contact force	kN	85			85			85		
	INJECTION UNIT		1100h			1400h			1700h		
	Injection speed	mm/s	350			350			350		
	Injection rate ²	cm ³ /s	659	797	949	797	949	1114	949	1114	1292
	Injection pressure	Mpa	230	190	159	230	193	164	210	180	155
		Bar	2300	1900	1590	2300	1930	1640	2100	1800	1550
	INJECTION UNIT		1100hs			1400hs			1700hs		
Injection speed	mm/s	500			450			450			
Injection rate ²	cm ³ /s	942	1139	1356	1025	1220	1432	1220	1432	1661	
Injection pressure	Mpa	230	190	159	230	193	164	210	180	155	
	Bar	2300	1900	1590	2300	1930	1640	2100	1800	1550	
OTHERS	Connection power	kW/A	1100h: 70KW/117A			1400h: 77KW/130A			1700h: 93KW/156A		
			1100hs:89KW/149A			1400hs:91KW/152A			1700hs:106KW/178A		
	Heating power	kW	33.7	40.7	44.2	41.5	47.1	51.1	45.5	51.1	55.1
	Machine dimension	m	7.82×2.02×2.53			8.35×2.02×2.53			8.51×2.02×2.53		
	Machine weight	t	-			-			-		
	Hopper capacity(OP)	l	50			50			50		
	Pressure	MPa	17.5			17.5			17.5		
Flow	l/min	90.3			90.3			90.3			
Oil tank	l	126			126			126			

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zhafir standard.

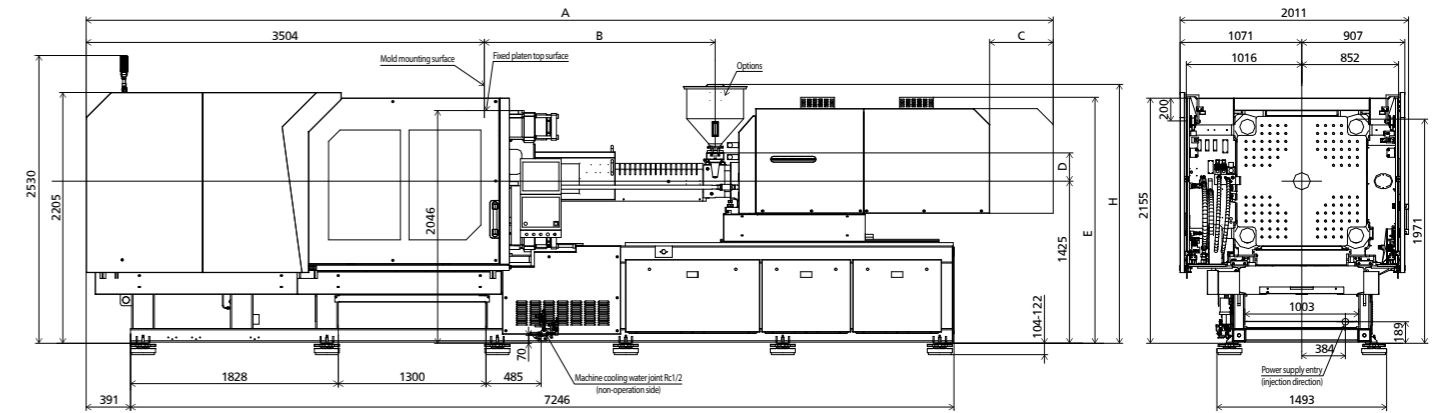
² Theoretical calculation value of max. injection speed.

³ Op means optional plasticizing component.

* 1MPa=10.2kgf/cm², 1kN=0.102tf

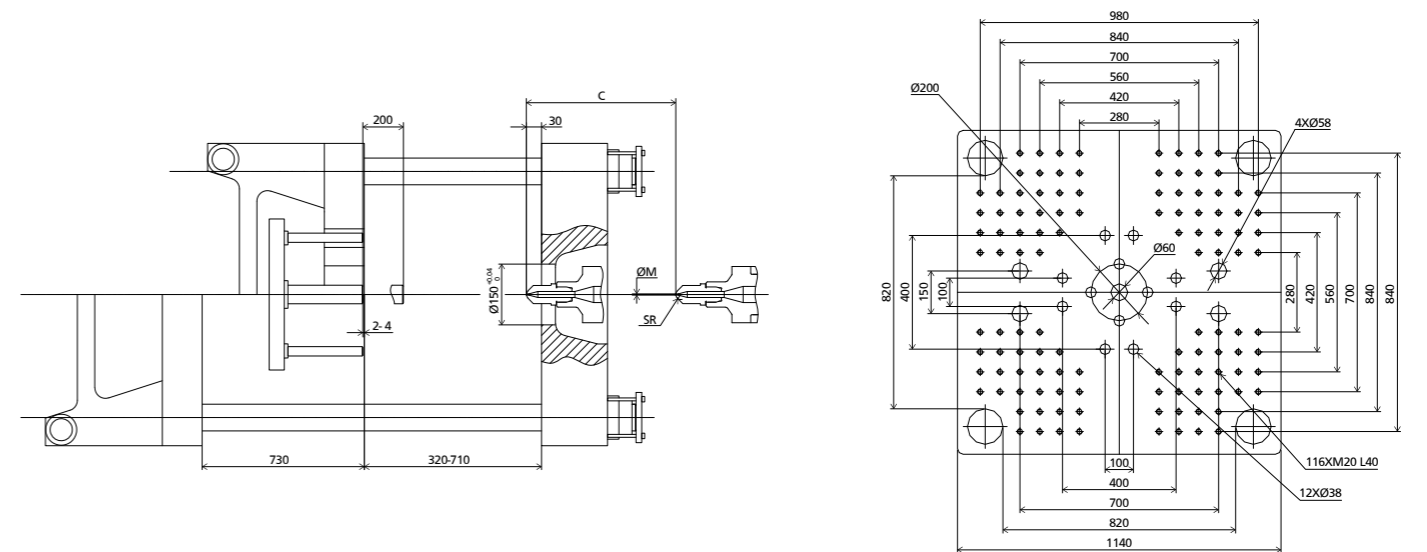
This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

MACHINE DIMENSIONS

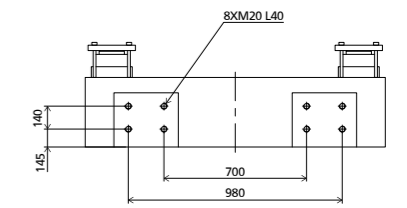
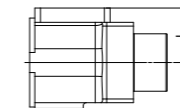
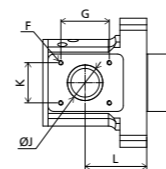


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1100h, 1100hs	7528/7708/7821	1469/1649/1762	520	245	2136	4×M10 L20	115	2273	143	82	115	180	Ø4	SR10
1400h, 1400hs	8059/8220/8341	1620/1781/1902	560	255	2163	4×M10 L20	115	2283	143	82	115	95.5	Ø4	SR10
1700h, 1700hs	8231/8393/8514	1753/1915/2036	560	249	2163	4×M10 L20	115	2276	148	95	115	134.5	Ø4	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



HOPPER MOUNTING DIMENSION

ROBOT TOP VIEW FIXED PLATEN

TECHNICAL DATA ZE4500 V -F

CLAMPING UNIT										
Clamping force	kN	4500								
Mold opening stroke	mm	800								
Mold height min.	mm	350								
Mold height max.	mm	810								
Total daylight max.	mm	1610								
Dist. Between tie-bars (H×V)	mm	870×870								
Size of mold platen (H×V)	mm	1250×1250								
Mold dimension min.	mm	570×570								
Ejector stroke	mm	200								
Ejector force	kN	98								
INJECTION UNIT		A	B	C(op) ³	A	B	C(op) ³	A	B	C(op) ³
Screw diameter	mm	55	60	65	60	65	70	70	75	85
Screw L/D ratio	L/D	25	25	25	25	25	25	25	25	25
Injection volume (theoretical)	cm ³	617	735	862	791	929	1077	1238	1422	1826
Screw speed	rpm	300			260			240		
Plasticizing rate ¹	g/s	80.6	110	144	91.7	120	155	145	163	205
Nozzle contact force	kN	85			85			85		
INJECTION UNIT		1400h			1700h			2650h		
Injection speed	mm/s	350			350			300		
Injection rate ²	cm ³ /s	797	949	1114	949	1114	1292	1107	1271	1633
Injection pressure	Mpa	230	193	164	210	180	155	214	187	145
	Bar	2300	1930	1640	2100	1800	1550	2140	1870	1450
INJECTION UNIT		1400hs			1700hs			-		
Injection speed	mm/s	450			450			-		
Injection rate ²	cm ³ /s	1025	1220	1432	1220	1432	1661	-	-	-
Injection pressure	Mpa	230	193	164	210	180	155	-	-	-
	Bar	2300	1930	1640	2100	1800	1550	-	-	-
OTHERS		1400h: 77KW/130A			1700h: 93KW/156A			2650h: 128KW/165A		
Connection power	kW/A	1400hs:91KW/152A			1700hs:106KW/178A			-		
Heating power	kW	41.5	47.1	51.1	45.5	51.1	55.1	54.4	61.9	74.4
Machine dimension	m	8.79×2.17×2.51			8.87×2.17×2.51			8.98×2.17×2.51		
Machine weight	t	-			-			-		
Hopper capacity(OP)	l	50			50			100		
Pressure	MPa	17.5			17.5			17.5		
Flow	l/min	141.3			141.3			141.3		
Oil tank	l	197			197			197		

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zhafir standard.

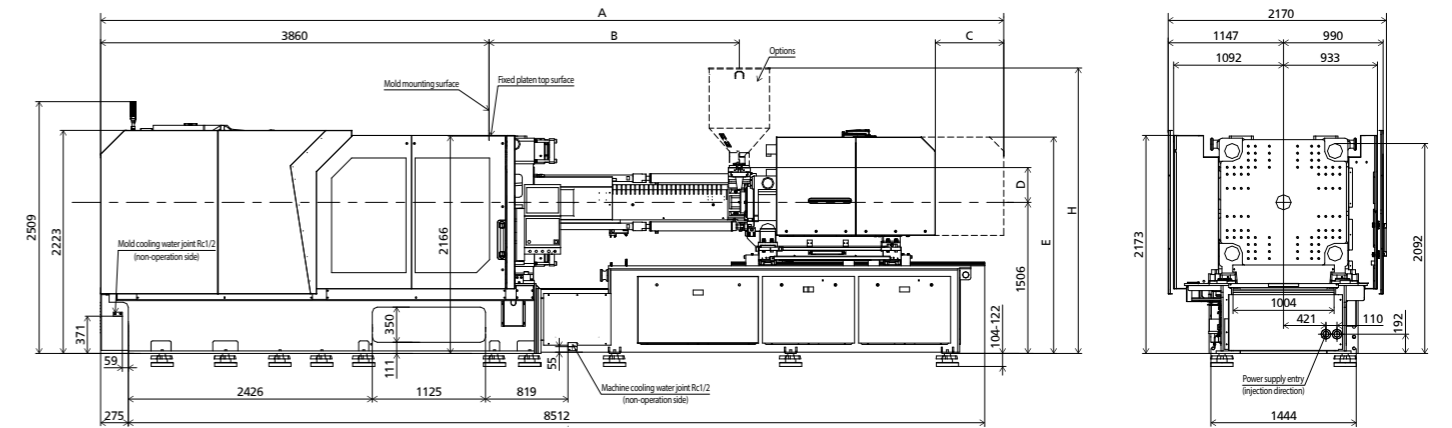
² Theoretical calculation value of max. injection speed.

³ Op means optional plasticizing component.

* 1MPa=10.2kgf/cm², 1kN=0.102tf

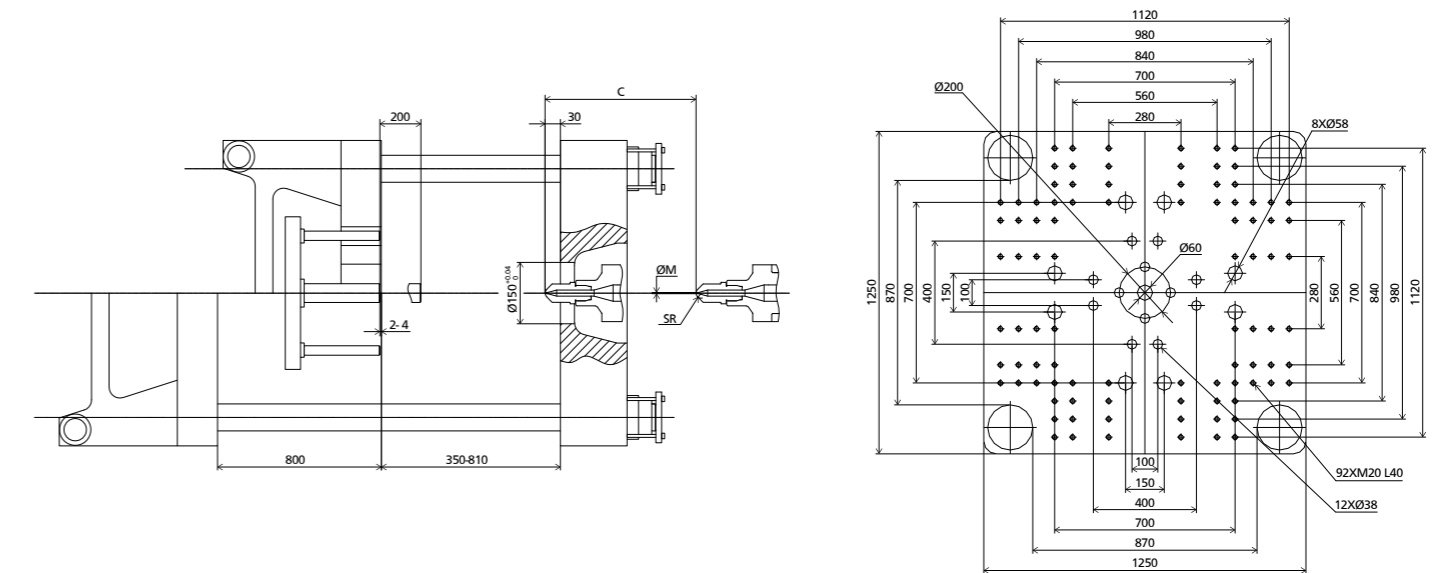
This parameter table is based on machine standard configuration;
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MACHINE DIMENSIONS

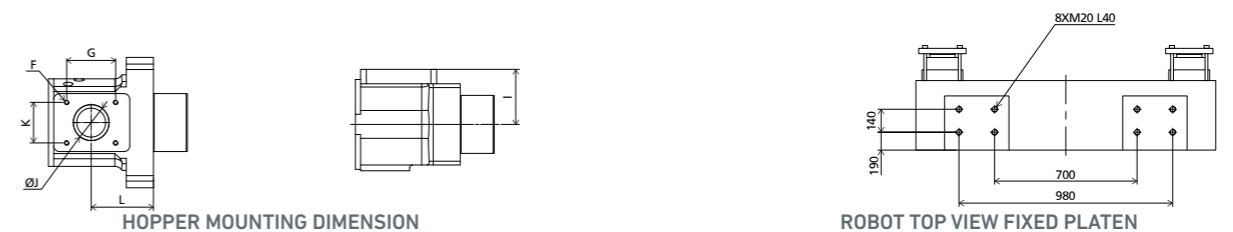


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1400	8416/8577/8698	1620/1781/1902	560	255	2244	4XM10 L20	115	2364	143	82	115	95.5	Ø4	SR10
1700	8588/8750/8871	1753/1915/2036	560	249	2244	4XM10 L20	115	2358	148	95	115	134.5	Ø4	SR10
2650	8522/8661/8976	2034/2173/2488	680	346	2157	4XM12 L25	170	2845	225	100	170	128	Ø4	SR15

PLATEN DIMENSIONS



OTHERS DIMENSIONS



TECHNICAL DATA ZE5500 V -F

CLAMPING UNIT	Clamping force	kN	5500								
	Mold opening stroke	mm	900								
	Mold height min.	mm	400								
	Mold height max.	mm	900								
	Total daylight max.	mm	1800								
	Dist. Between tie-bars (H×V)	mm	920×920								
	Size of mold platen (H×V)	mm	1290×1290								
Mold dimension min.	mm	600×600									
Ejector stroke	mm	200									
Ejector force	kN	154									
INJECTION UNIT			A	B	C(op) ³	A	B	C(op) ³	A	B	C(op) ³
	Screw diameter	mm	55	60	65	60	65	70	70	75	85
	Screw L/D ratio	L/D	25	25	25	25	25	25	25	25	25
	Injection volume (theoretical)	cm ³	617	735	862	791	929	1077	1238	1422	1826
	Screw speed	rpm	300			260			240		
	Plasticizing rate ¹	g/s	80.6	110	144	91.7	120	155	145	163	205
	Nozzle contact force	kN	85			85			85		
	INJECTION UNIT		1400h			1700h			2650h		
	Injection speed	mm/s	350			350			300		
	Injection rate ²	cm ³ /s	797	949	1114	949	1114	1292	1107	1271	1633
Injection pressure	Mpa	230	193	164	210	180	155	214	187	145	
	Bar	2300	1930	1640	2100	1800	1550	2140	1870	1450	
INJECTION UNIT		1400hs			1700hs			-			
Injection speed	mm/s	450			450			-			
Injection rate ²	cm ³ /s	1025	1220	1432	1220	1432	1661	-	-	-	
Injection pressure	Mpa	230	193	164	210	180	155	-	-	-	
	Bar	2300	1930	1640	2100	1800	1550	-	-	-	
OTHERS	Connection power	kW/A	1400h: 77KW/130A			1700h: 93KW/156A			2650h: 128KW/165A		
			1400hs:91KW/152A			1700hs:106KW/178A			-		
	Heating power	kW	41.5	47.1	51.1	45.5	51.1	55.1	54.4	61.9	74.4
	Machine dimension	m	8.98×2.26×2.49			9.15×2.26×2.49			9.26×2.26×2.49		
	Machine weight	t	-			-			-		
	Hopper capacity(OP)	l	50			50			100		
	Pressure	MPa	17.5			17.5			17.5		
Flow	l/min	204			204			204			
Oil tank	l	298			298			298			

NOTE: ¹ Plasticizing capacity (HDPE): Euromap 19, with Zafr standard.

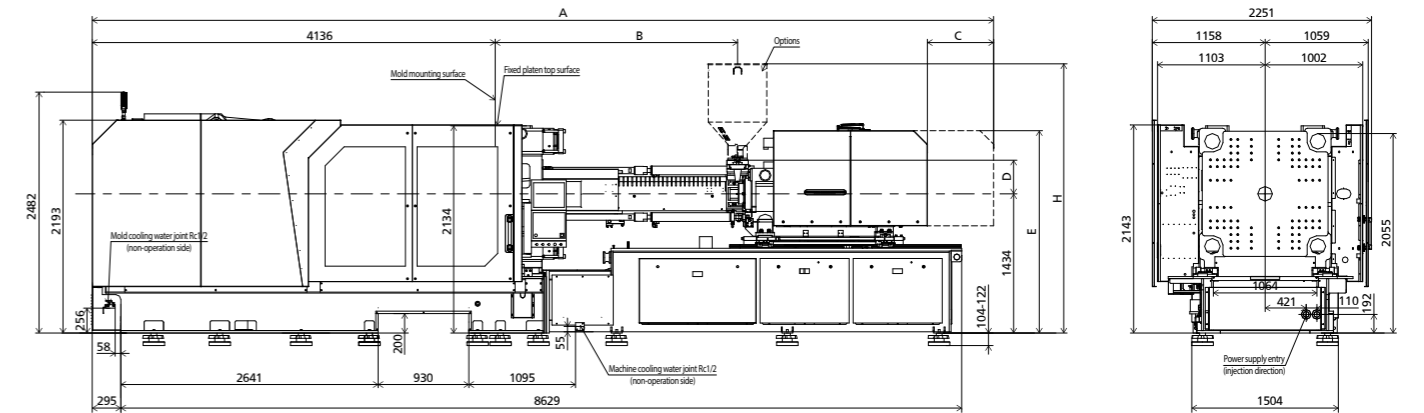
² Theoretical calculation value of max. injection speed.

³ Op means optional plasticizing component.

* 1MPa=10.2kgf/cm², 1kN=0.102tf

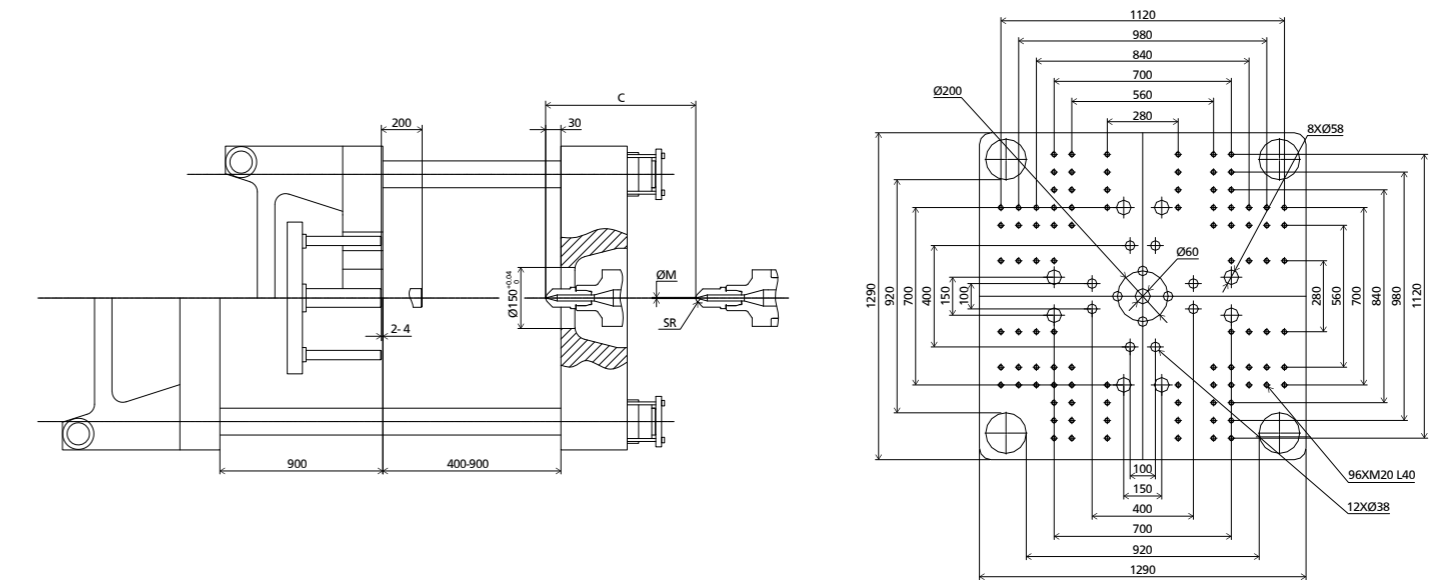
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MACHINE DIMENSIONS

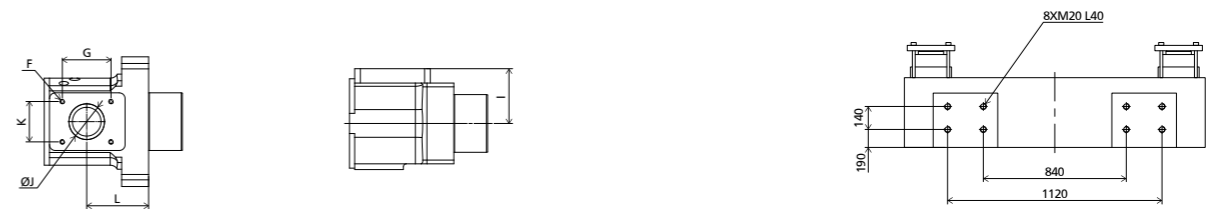


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1400	8692/8853/8974	1620/1781/1902	560	255	2172	4XM10 L20	115	2292	143	82	115	95.5	Ø4	SR10
1700	8864/9026/9147	1753/1915/2036	560	249	2172	4XM10 L20	115	2286	148	95	115	134.5	Ø4	SR10
2650	8798/8937/9252	2034/2173/2488	680	346	2085	4XM12 L25	170	2773	225	100	170	128	Ø4	SR15

PLATEN DIMENSIONS



OTHERS DIMENSIONS



HOPPER MOUNTING DIMENSION

ROBOT TOP VIEW FIXED PLATEN

STANDARD EQUIPMENT LIST

GENERAL EQUIPMENT

- » Basic safety device according to GB/22530
- » ZHAFIR colors: RAL9010, RAL5003
- » Power supply: 380VAC, 3PH+N+PE
- » Sigmatek controller, 15.1 inch touch screen
- » Injection, dosing, platen movement driven independently by servo motor, optical encoder position detection
- » LUBE central lubrication

INJECTION UNIT

- » Abrasion-resistant screw set, general version
- » Open nozzle
- » Barrel heating temperature PID control, SSR
- » Extended nozzle, temperature PID control independently
- » Feeding zone temperature closed-loop control
- » Injection speed 6 steps
- » Speed responding mode adjustable
- » Holding pressure 4 steps
- » Pressure responding mode adjustable
- » V/P switch over methods by position/ time/ pressure combinations
- » Dosing rotation speed 3 steps
- » Back pressure 3 steps
- » HPM over-filling protection function
- » Screw retraction before and/or after dosing
- » Auto purge

CLAMPING UNIT

- » 5-point twin toggle mechanism
- » Center pressing platen
- » Clamping force settable at control panel
- » Automatic mold-height adjustment
- » Platen moving speed 6 steps
- » AI mold protection
- » Clamping force pre-release
- » Ejector speed 3 steps
- » Ejector pressure 3 steps
- » Multi ejection function
- » Ejection parallel to mold opening

FUNCTIONS & CONTROLS

- » Multi-language available (Chinese, German, English, Japanese etc.)
- » Metric/Imperial unit selectable
- » Dosing parallel to mold opening
- » Injection compression
- » Production assistant device function
- » Maintenance alert
- » 5000 cycles process data recording
- » Amendment report
- » Alarm record
- » Quality control function
- » Mold profile data memory (up to 200 sets)
- » 2 USB interface
- » USB printer interface
- » Injection speed & pressure curve
- » 1 free programmable I/O
- » Mold ejector protection interface
- » EUROMAP 12 interface for handling device
- » Auxiliary socket 3PH/380V 32A×1, 16A×2
- » 3 color alarm lamp (red/yellow/green)

OTHERS

- » Tool kit & spare parts package
- » Leveling pads
- » Documents with machine
- » Operating manual

NOTE

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