

# SPARK AE | SPARK EH

## Euroseries Datasheet



**Chen Hsong Europe B.V.**

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# About Chen Hsong

"Your vision is our mission." — this is the founding principle and unwavering commitment of Chen Hsong.

Founded in 1958 and listed on the Hong Kong Stock Exchange (00057.hk) in 1991, Chen Hsong has evolved over nearly 70 years from an injection molding machine manufacturer to a comprehensive provider of injection molding solutions.

## A Global Leader in Injection Molding

Chen Hsong is one of the world's largest manufacturers of injection molding machines. With headquarters in Hong Kong and major manufacturing and R&D facilities throughout Mainland China and Taiwan, Chen Hsong operates nearly 900,000 square meters of factory space with an annual production capacity exceeding 20,000 machines. Our global presence extends to subsidiaries in Mexico, Brazil, Germany, the Netherlands, Turkey, Vietnam, India, Indonesia, and Dubai, with sales channels and support infrastructure spanning 85 countries worldwide.

## One of the Few: Chen Hsong's One-Stop Solution for Injection Molding

Chen Hsong's vertically integrated manufacturing process sets us apart. From component machining and casting to final assembly and testing, we maintain complete control over quality, ensuring superior performance and cost-effectiveness. Our in-house design and manufacturing of key components, including ductile iron castings and controllers, further enhances our ability to deliver tailored solutions. In addition, Chen Hsong independently develops and manufactures high-quality ductile iron castings, providing clients with technically autonomous, quality-controlled, and cost-transparent solutions.

## The Right Machine for Every Need

Chen Hsong provides a comprehensive range of injection molding machines tailored to diverse applications and materials. Whether you need two-platen, three-platen, electric, multi-material or vertical solutions for automotive, electronics, medical, or other industries, we have the perfect machine. We also offer specialized machines for specific applications such as fruit crates, chemical drums and toys, as well as for materials including PET and UPVC.

## Complete Smart Manufacturing Solutions for the Injection Molding Industry

Chen Hsong offers a complete range of smart manufacturing solutions to help you transform your operations. From advanced injection molding machines to intelligent factory solutions powered by our iChen Smart Family. This includes the iChen Smart Factory, iChen Cloud platform and the AI Molder intelligent molding solution. We provide cost-effective and easily implemented upgrades for traditional manufacturers. This includes our iChen System™, first launched in 2003, which has been continuously updated to provide a comprehensive smart manufacturing transformation pathway.

## Investing in the Future: Chiang Chen Industrial Charity Foundation

In 1990, Dr. Chiang Chen, the founder of Chen Hsong, set a precedent for philanthropy in Hong Kong, donating his entire stake in Chen Hsong (approximately HK\$800 million at the time) to establish the Chiang Chen Industrial Charity Foundation. To date, the foundation has donated over HK\$500 million, fostering industrial development and cultivating over 100,000 engineers and managers through partnerships with over 30 prestigious universities globally. When you choose Chen Hsong, you support this remarkable legacy of giving back.



Headquarters in Hong Kong



Shenzhen Industrial Park Factory 560000m<sup>2</sup>



Taiwan Taoyuan Factory 30000m<sup>2</sup>



Foshan Shunde - Two Factories 150000m<sup>2</sup>



Zhejiang Ningbo Factory 70000m<sup>2</sup>



Shanwei Luhe Factory 62360m<sup>2</sup>

# Chen Hsong in Europe

Chen Hsong Europe is headquartered in the Netherlands and has a large stock of ready-to-ship machines and spare parts.

We welcome all enquiries and requests for demonstrations, mold trials, technical support and training.

At Chen Hsong, we hold to the motto of "Think Global, Act Local" as we believe our clients are best served by experts that understand their needs and applications intimately.

That is why Chen Hsong works with a global network of carefully-selected distributors, supported by our European HQ in the Netherlands as well as our global team of engineers.

Chen Hsong distributors provide not just machines but full support: from professional project advice and installation to training, maintenance (including spare parts), and after-sales technical service.



## European Standards

All Chen Hsong equipment sold in Europe conform strictly to fully-certified CE safety standards.

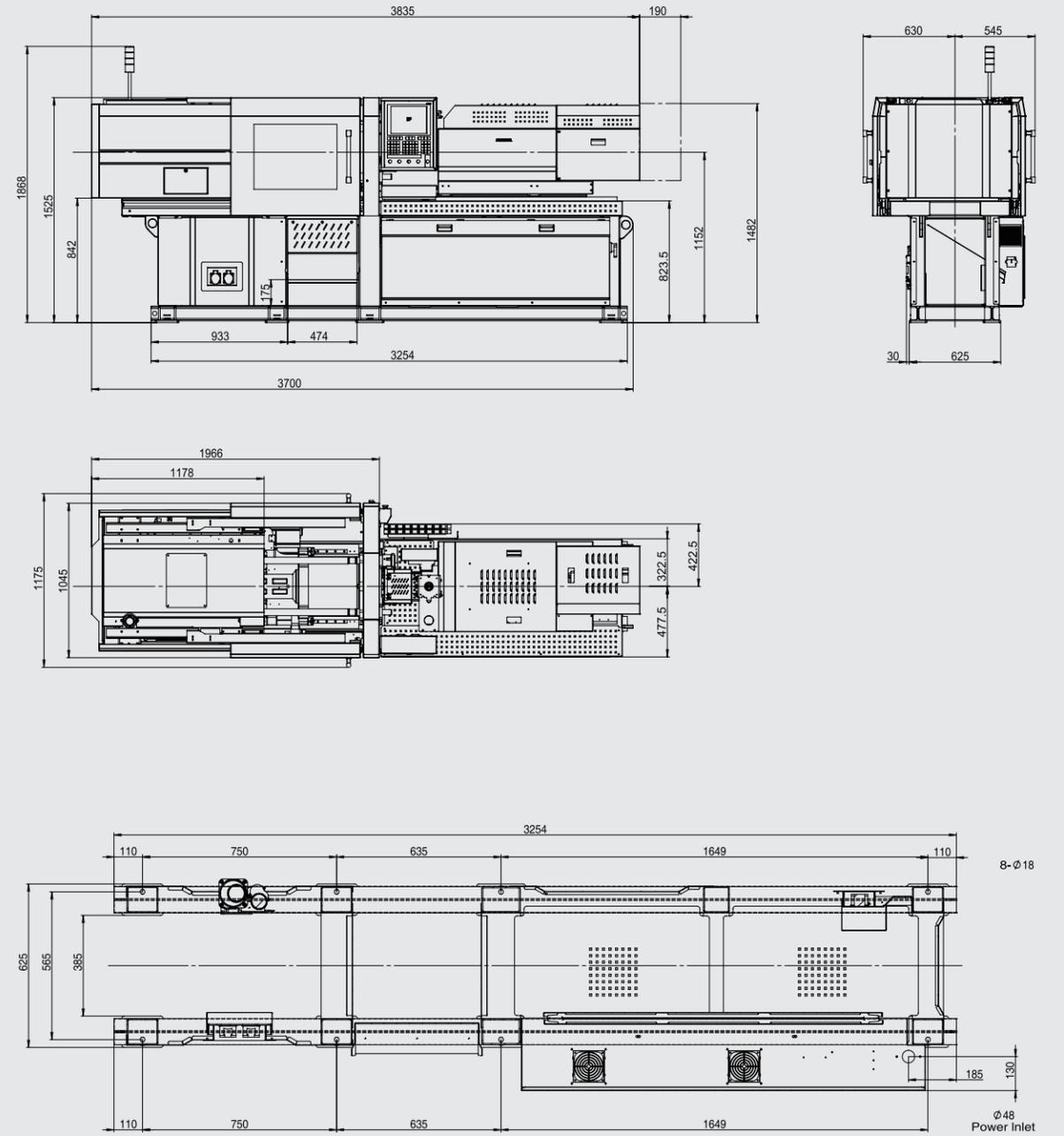
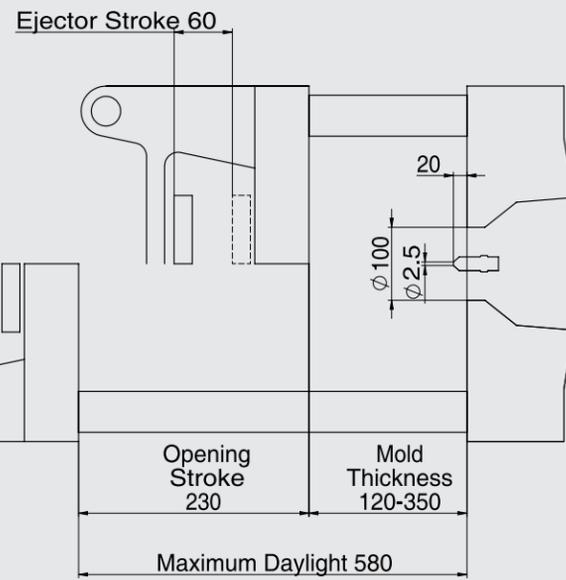
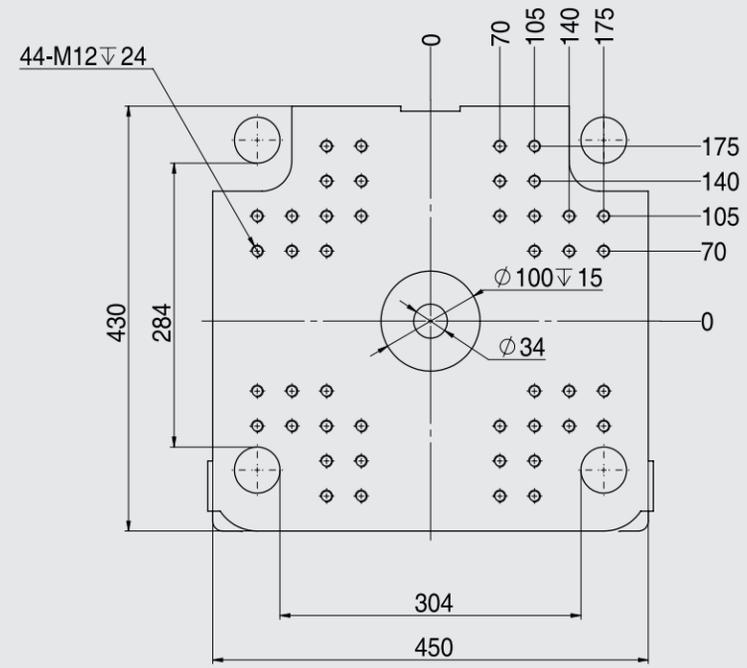
Stability, reliability, precision and power efficiency are also among the best in its class.

As Europe drives towards its goal of carbon neutrality, Chen Hsong does its part offering only fully-servo-driven equipment with the highest energy efficiency.

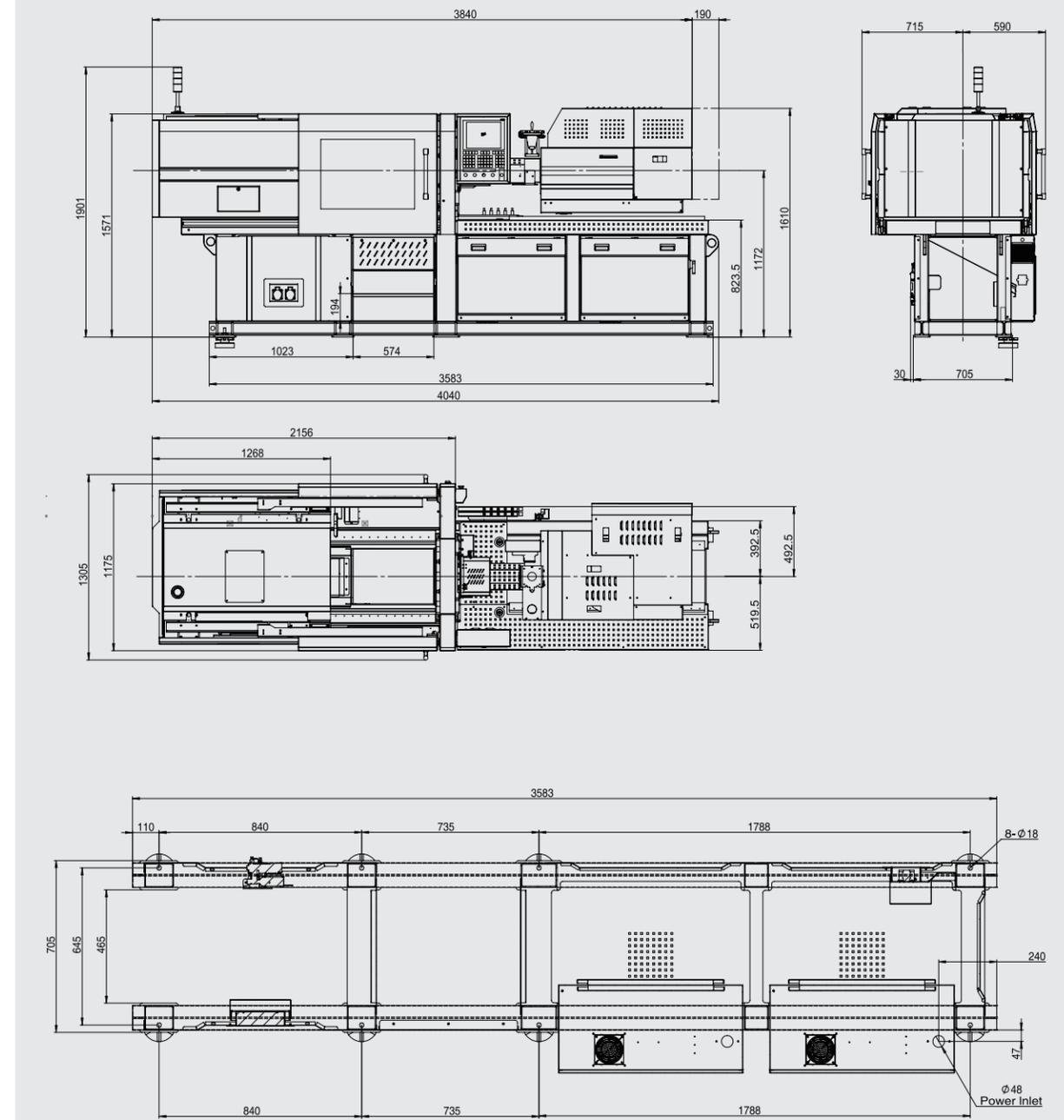
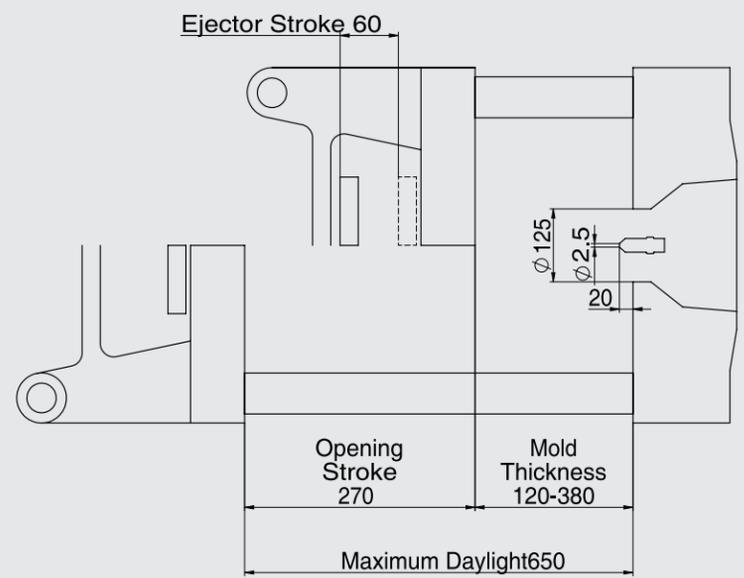
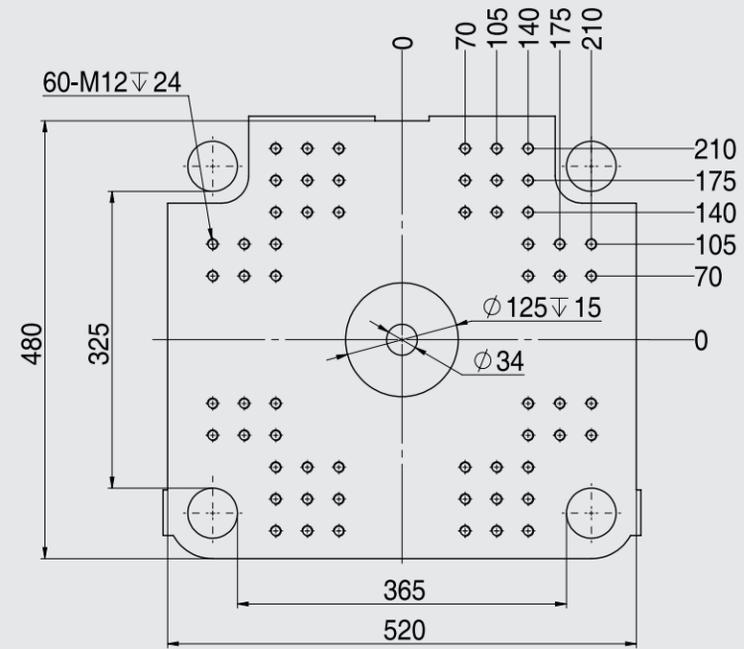
# SPARK AE Euroseries

SPECIFICATIONS	UNIT	AE40			AE60			AE100			AE120			AE150							AE180			AE230			AE300						AE360			AE450			AE550								
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A+	B+	C+	D+	A	B	C	A	B	C	A	B	C	A+	B+	C+	A	B	C	A	B	C	A	B	C	A	B	C			
Screw Diameter	mm	18	20	22	22	25	28	25	28	32	28	32	36	28	32	36	32	36	41	46	36	41	46	36	41	46	46	52	60	60	67	75	60	67	75	65	70	80	70	80	90						
Injection Stroke	mm	75	75	75	105	105	105	100	110	110	110	110	110	110	110	110	160	180	205	230	180	205	230	180	205	230	230	260	285	300	330	360	300	330	360	325	325	325	425	425	425						
Injection Volume	cm <sup>3</sup>	19	24	29	40	52	65	49	67	88	67	88	112	67	88	112	128	183	270	382	183	270	382	183	270	382	382	552	805	848	1163	1590	848	1163	1590	1078	1251	1634	1636	2136	2704						
Injection Shot Weight	g	17	21	26	36	47	59	45	62	81	62	81	103	62	81	103	118	168	249	351	168	249	351	168	249	351	351	507	740	780	1070	1462	780	1070	1462	992	1151	1503	1472	1923	2433						
Injection Shot Weight	oz	0.6	0.74	0.92	1.27	1.66	2.08	1.6	2.2	2.9	2.2	2.9	3.6	2.2	2.9	3.6	4.2	5.9	8.8	12.4	5.9	8.8	12.4	5.9	8.8	12.4	12.4	17.9	26	27.6	37.8	51.6	27.6	37.8	51.6	34.99	40.64	53.02	51.83	67.7	85.68						
Injection Rate	cm <sup>3</sup> /s	58	72	88	76	98	123	172	215	281	215	281	356	215	281	356	281	356	462	581	356	463	581	356	463	581	581	743	988	565	7.5	883	565	705	883	829	962	1257	962.1	1256.6	1590.4						
Injection Speed	mm/s	200			200			350			350			350			350				350			350			350			200			200			250			250								
Injection Pressure(Max.)	MPa	303	245	203	292	240	188	260	220	175	220	175	138	220	175	138	300	235	183	145	250	235	176	250	235	176	306	240	180	234	188	150	234	188	150	209	180	138	209	180	138						
Holding Pressure	MPa	242	196	162	233	192	156	208	176	140	176	140	110	176	140	110	240	188	146.4	116	200	188	142	200	188	142	244	192	144	187	150	120	187	150	120	167	144	110	167	144	110						
Plasticizing Rate	g/s	3.47	4.17	5	5	6.94	9.72	7.8	11	15	11	15	21	11	15	21	15	21	26	35	21	26	35	21	26	35	30	48	64	50	80	95	50	80	95	56	65	80	56	65	80						
Screw RPM(Max.)	rpm	400			400			350			350			350			350				350			350			300			235			235			210			210								
Barrel Heating Power	kW	2.6			4.8			6.3	7.2	8.2	7.2	8.2	8.9	7.2	8.2	8.9	10.7	12.4	14.3	16.7	12.4	14.3	16.7	12.4	14.3	16.7	19.7	22.8	26	30.2	33.6	39.4	30.2	33.6	39.4	36.1	38.8	53.2	36.1	38.8	53.2						
Barrel Temperature Zones		3+1			3+1			3+1			3+1			3+1			3+1				3+1			3+1			3+1			4+1			4+1			4+1			4+1								
Nozzle Contact Force(Max.)	kN	15.7			15.7			34			34			34			34				34			34			51			51			76			63.7			63.7								
<b>CLAMPING UNIT</b>																																															
Clamping Force(Max.)	kN	400			600			1000			1200			1500							1800			2300			3000						3600			4500			5500								
Mold Opening Stroke	mm	230			270			360			360			420							480			550			600						700			820			820								
Mold Platen Dimensions(HxV)	mm	450x430			520x480			640x410			640x590			730x680							800x795.5			890x885.5			1080x1070						1160x1160			1290x1290			1290x1290								
Distance Between Tie Bars(HxV)	mm	304x284			365x325			460x410			460x410			510x460							560x560			610x610			730x730						830x830			920x920			920x920								
Mold Thickness(Min.-Max.)	mm	120-350			120-380			150-510			150-510			180-520							200-600			250-680			300-750						300-850			330-810			330-810								
Max.Daylight	mm	580			650			870			870			940							1080			1230			1350						1550			1630			1630								
Ejector Force	kN	27			27			24.5			24.5			34.3							34.3			51.9			62						62			98			98								
Ejector Stroke	mm	60			60			100			100			120							120			150			160						200			180			180								
No.Of Ejector	PCS	1			1			1			1			1							9			9			9						13			13			13								
Locating Ring Diameter	mm	100			125			125			125			125							160			160			160						200			200			200								
<b>OTHERS</b>																																															
Rated Motor Power	kW	14.6			23.1			18			20			20			27							37			37			50						69			69			77.6			77.6		
Max. Rated Current	A	46.3			48.7			37			49			49			65							84			84			117						157			157			189			189		
Machine Dimensions(LxWxH)	mm	4025x1175x1868			4030x1305x1901			4563x1384x1923			4615x1384x1923			5362x1514x1935							6149x1514x1935			6394x1618x2079			6774x1706x2189			7831x1970x2471						8440x1970x2471			8840x2126x2500			9448x2130x2440			9900x2130x2234		
Machine Weight	kg	2300			3200			3900			4100			5600			6300							7700			10200			14500						15300			18500			22000			24700		

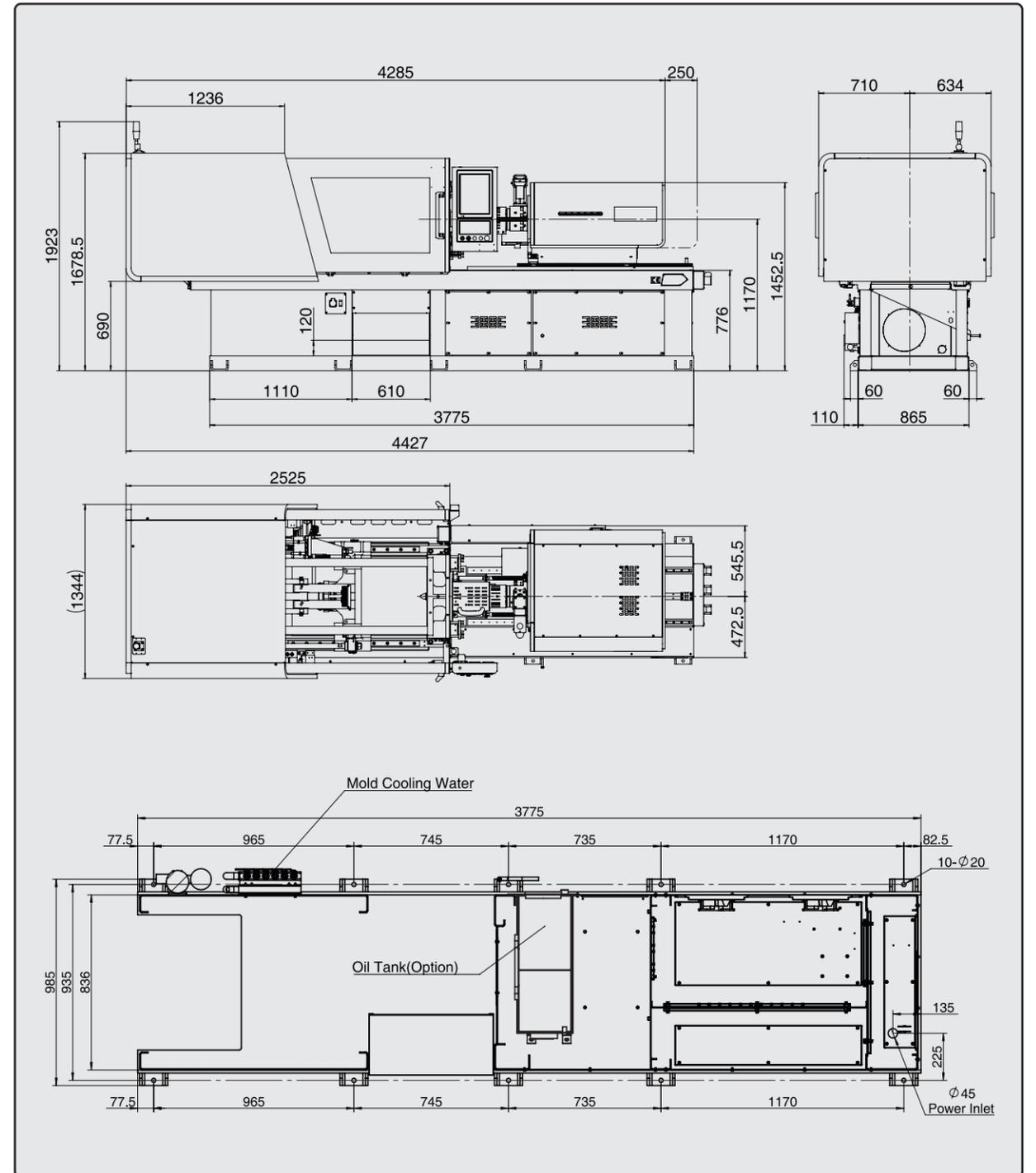
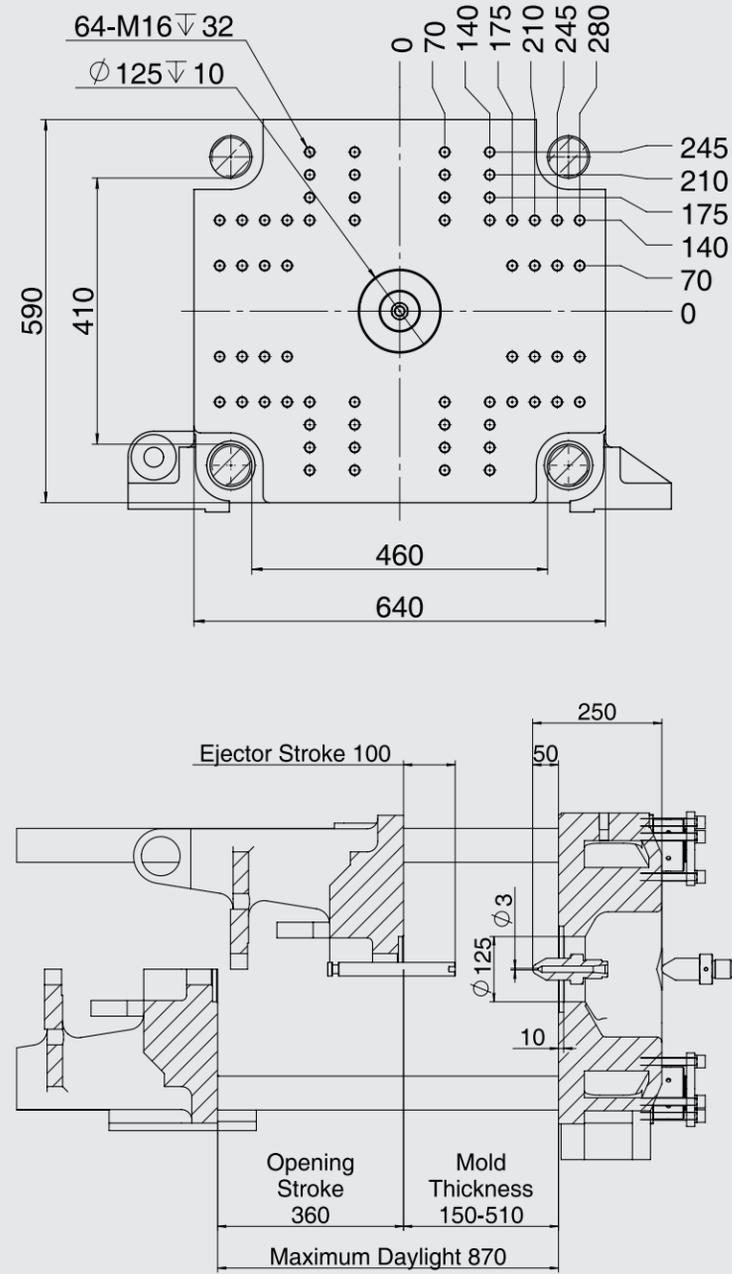
# SPARK AE 40 Euroseries



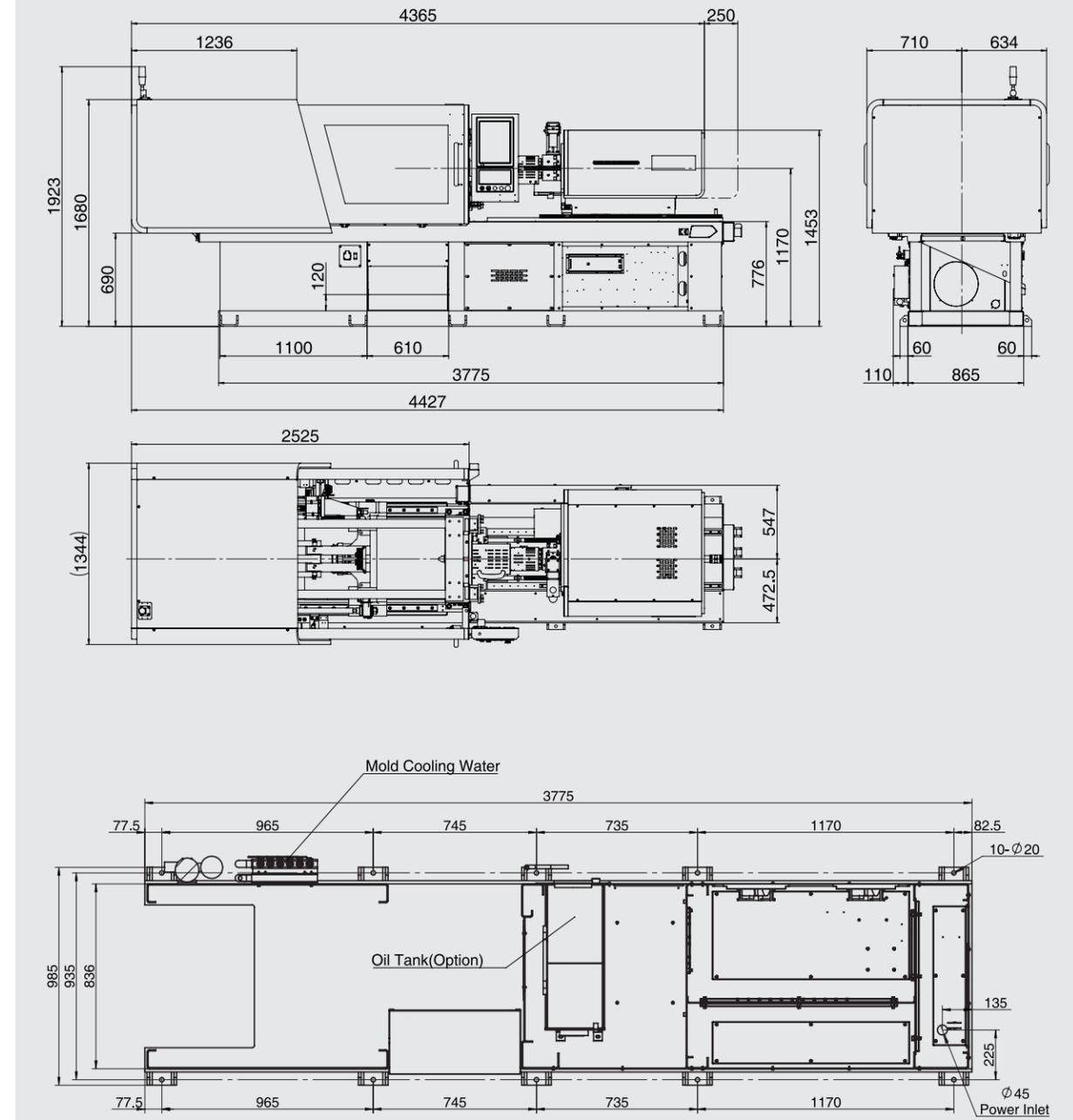
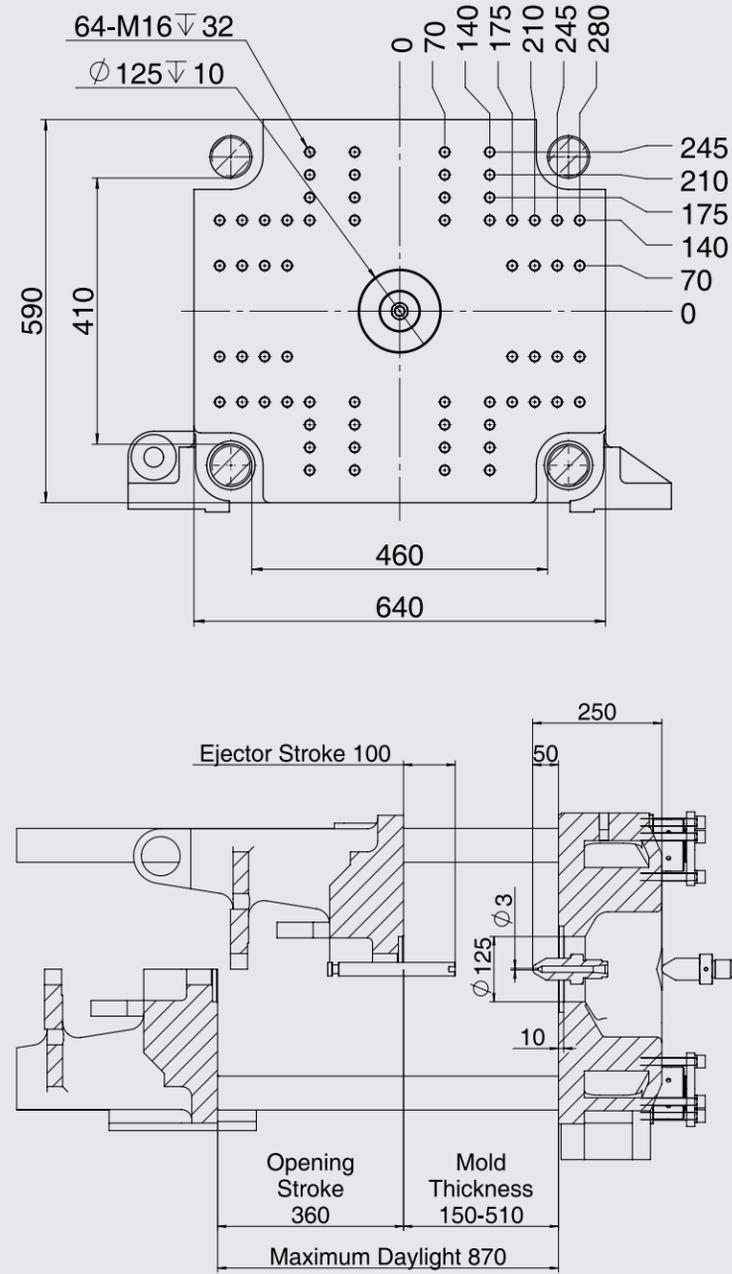
# SPARK AE 60 Euroseries



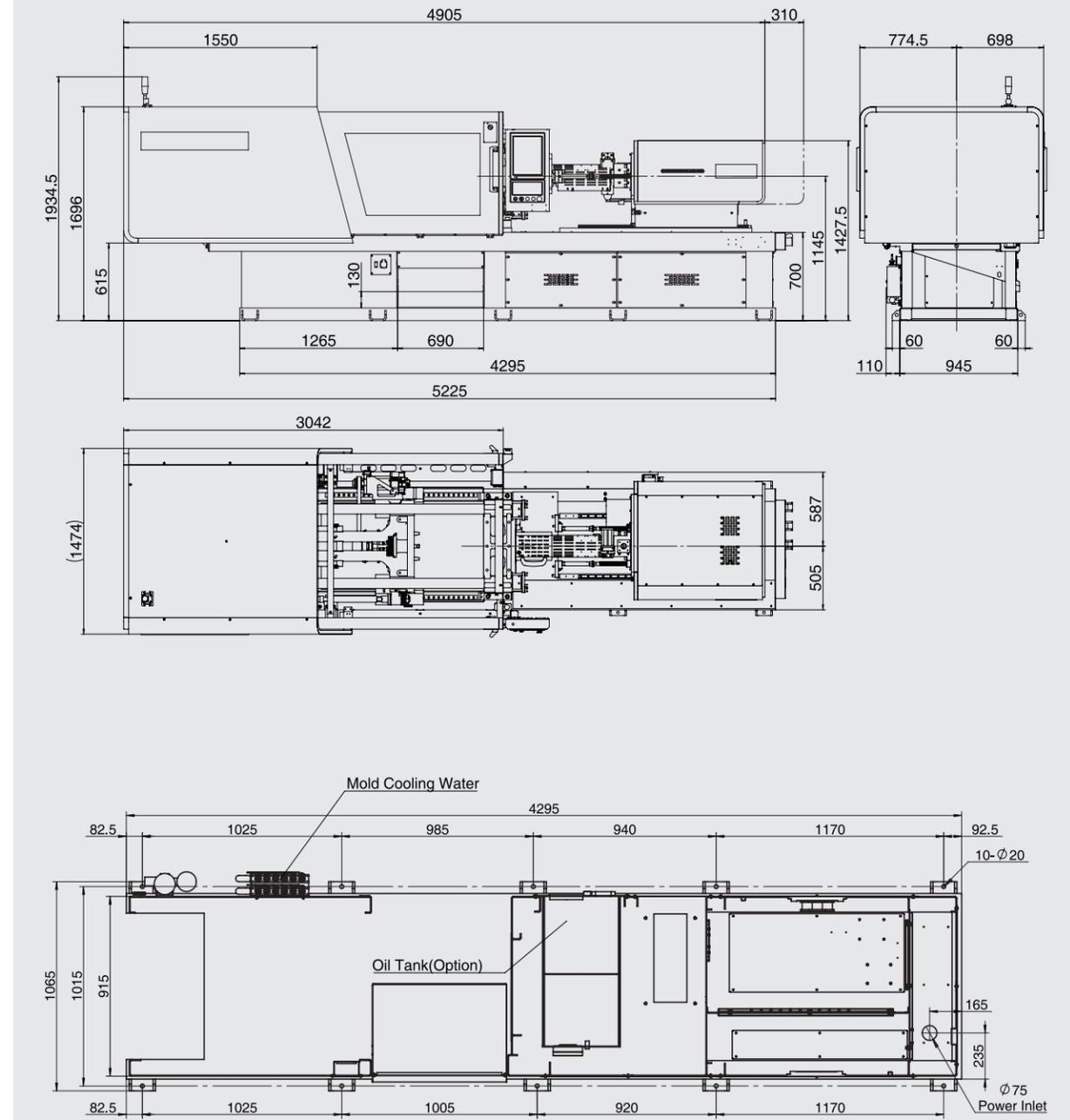
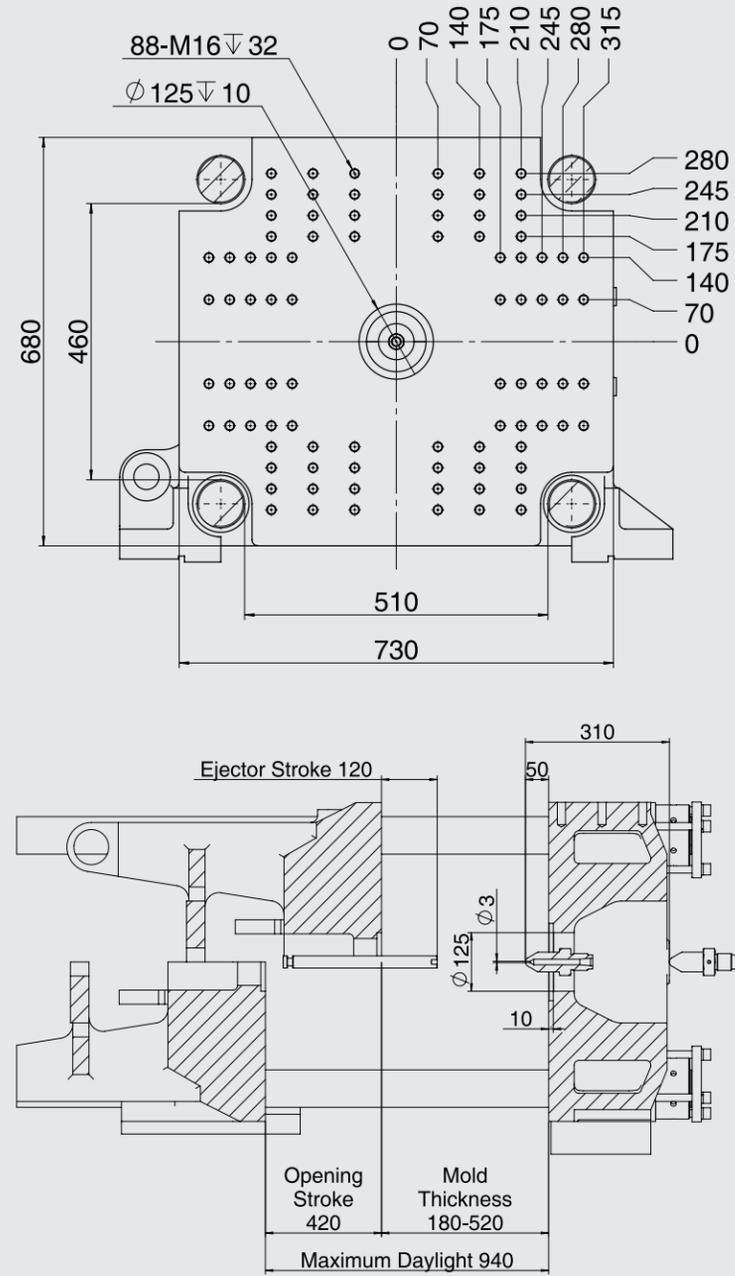
# SPARK AE 100 Euroseries



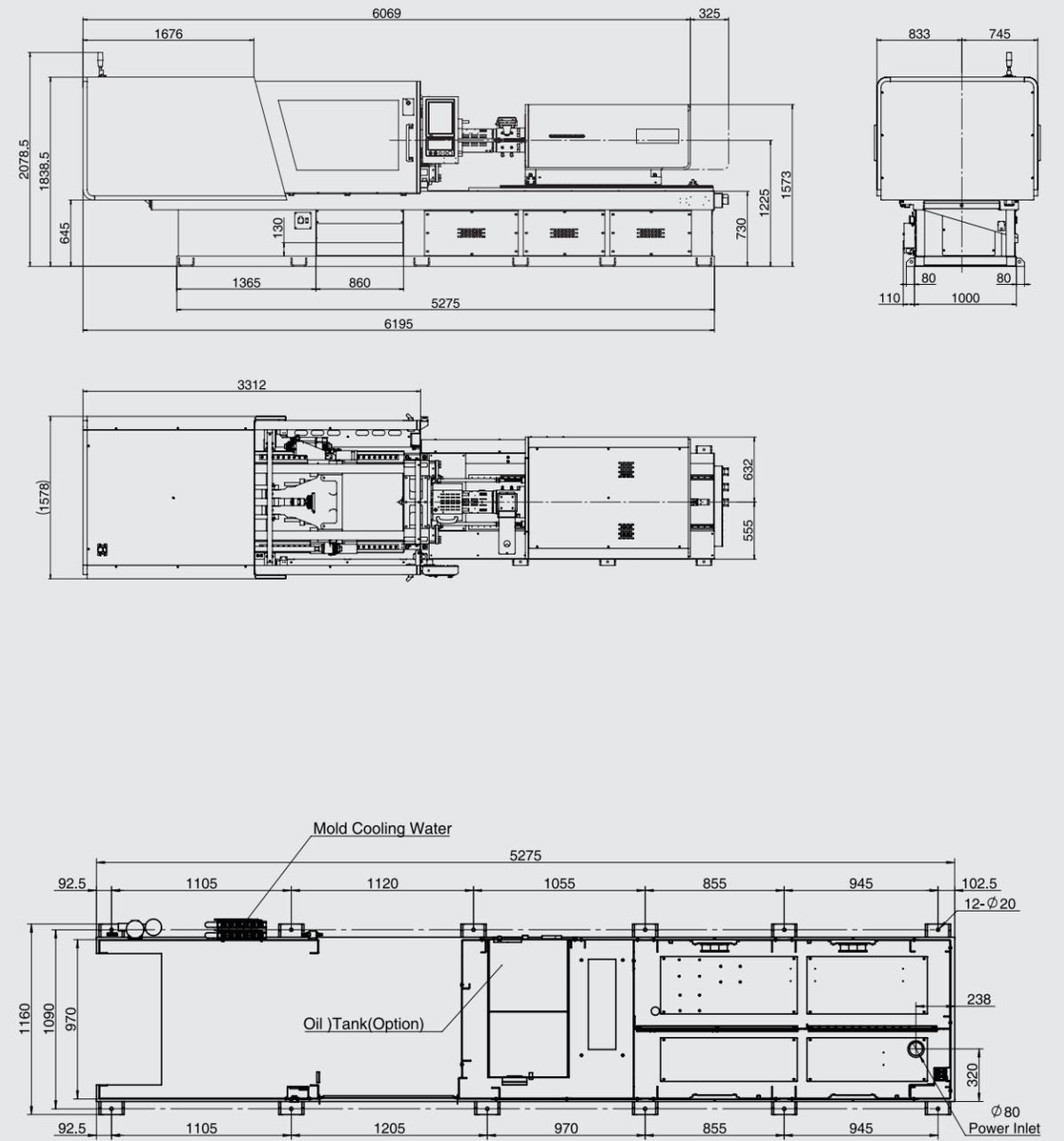
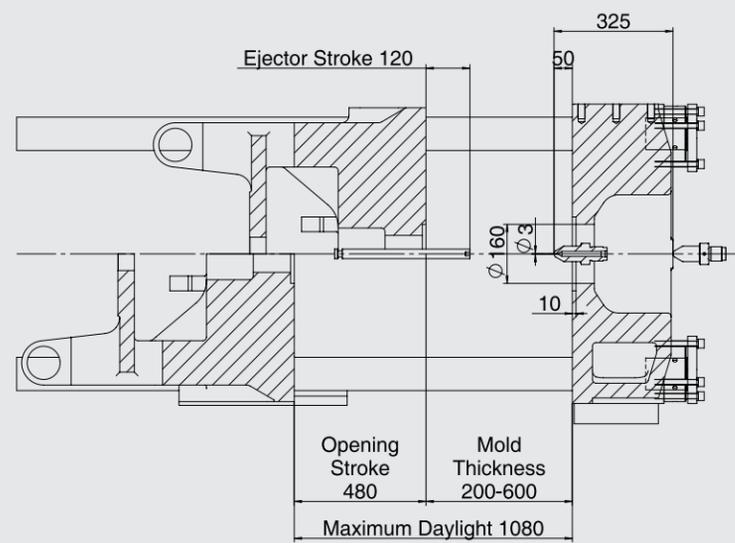
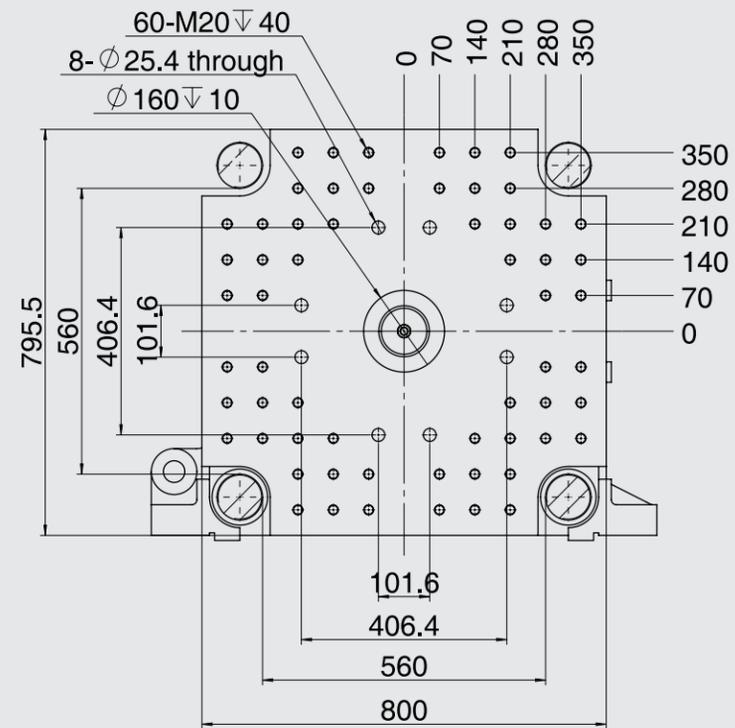
# SPARK AE 120 Euroseries



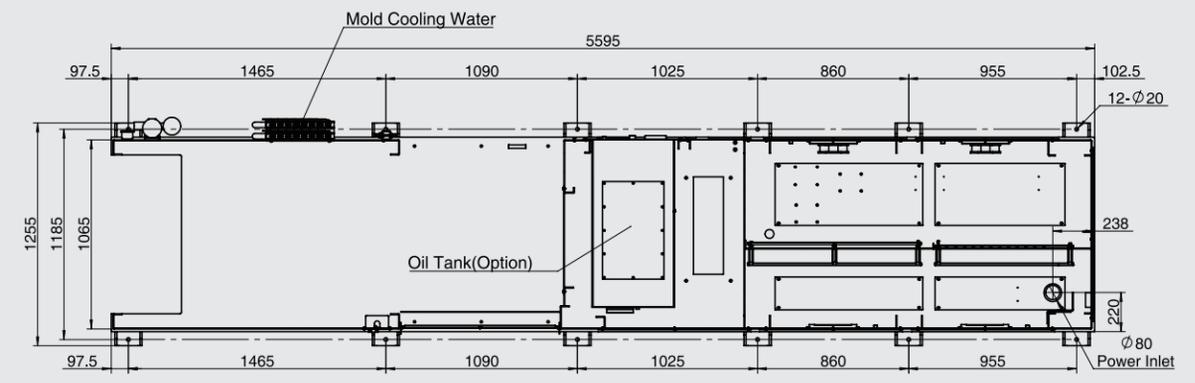
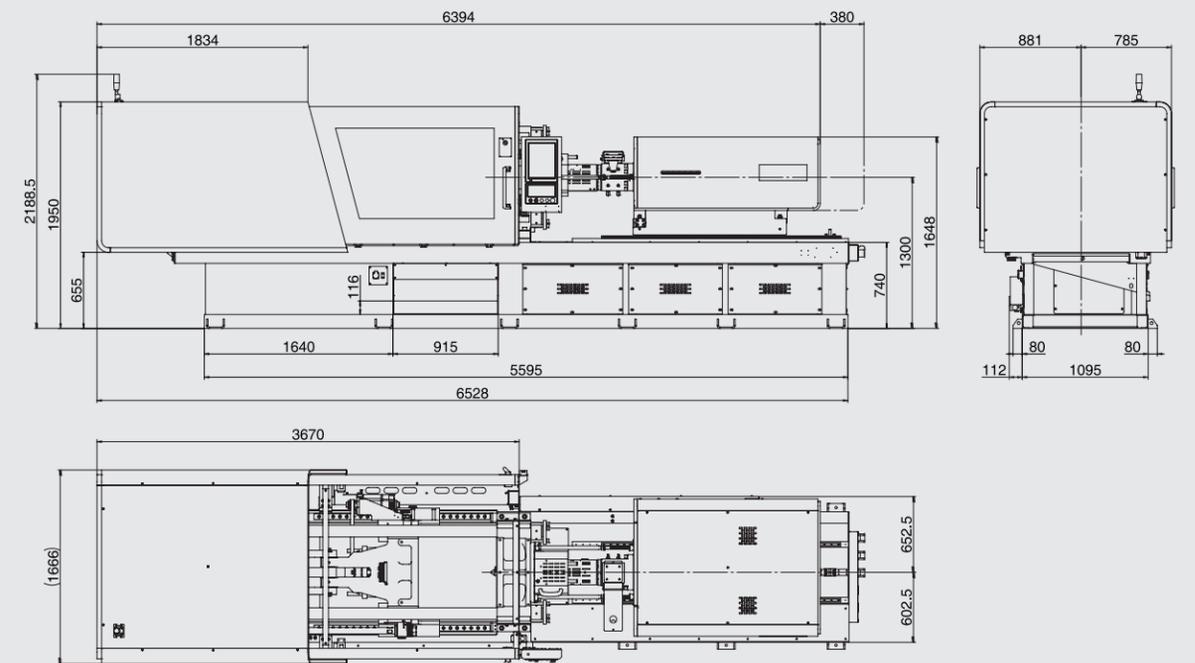
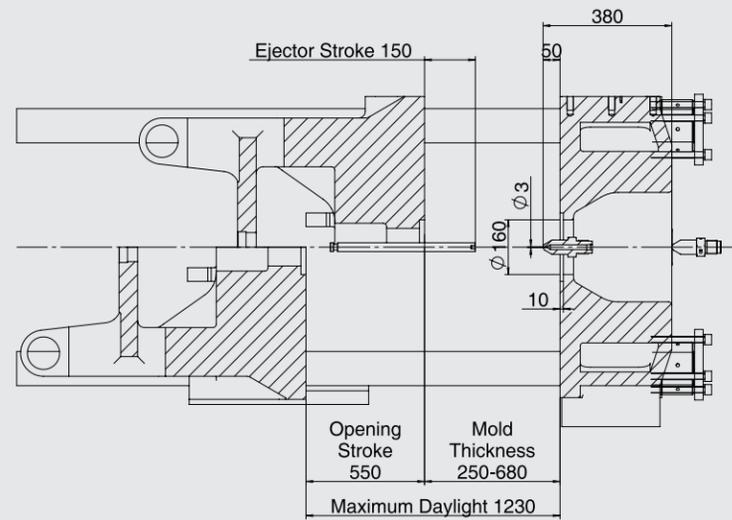
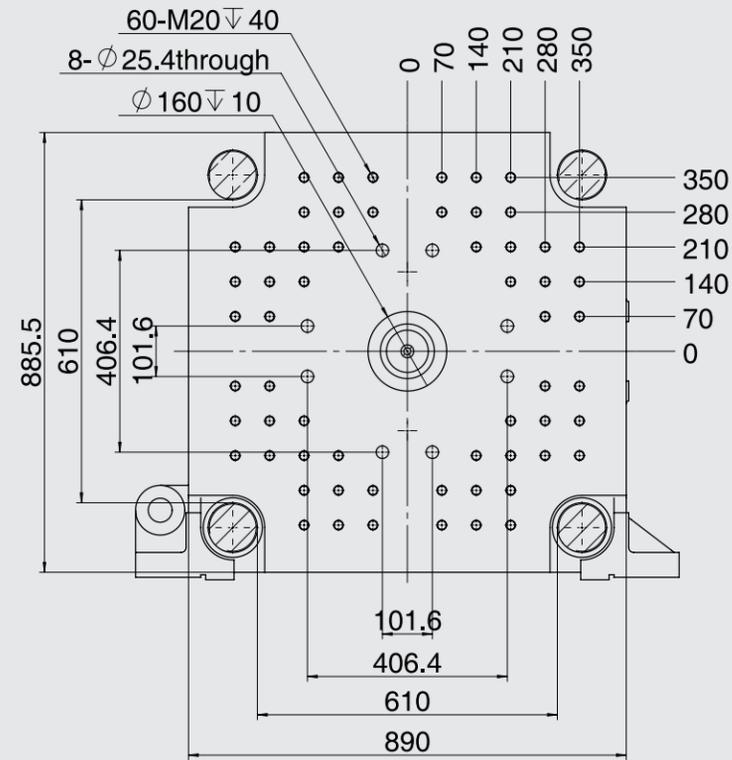
# SPARK AE 150 Euroseries



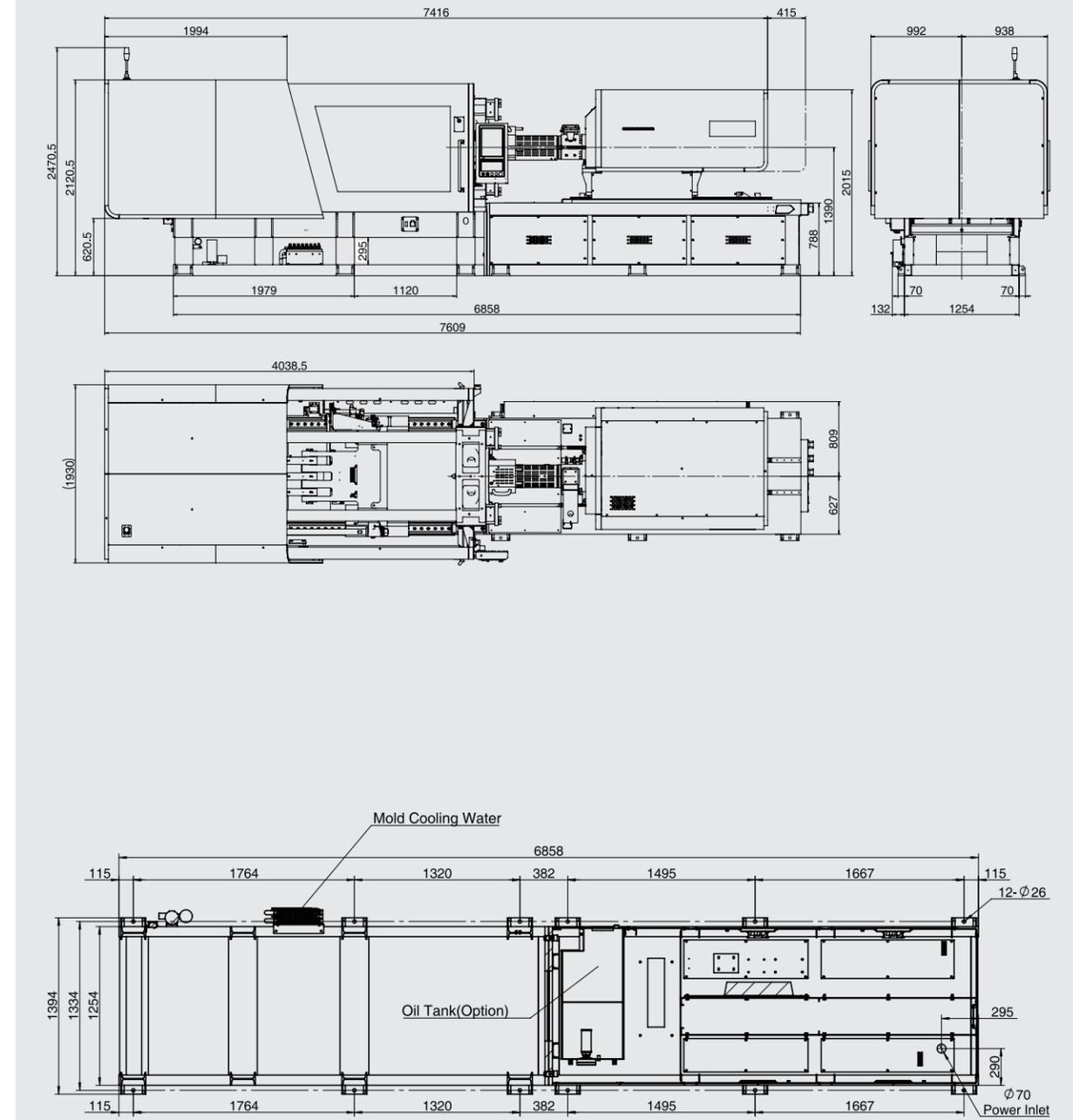
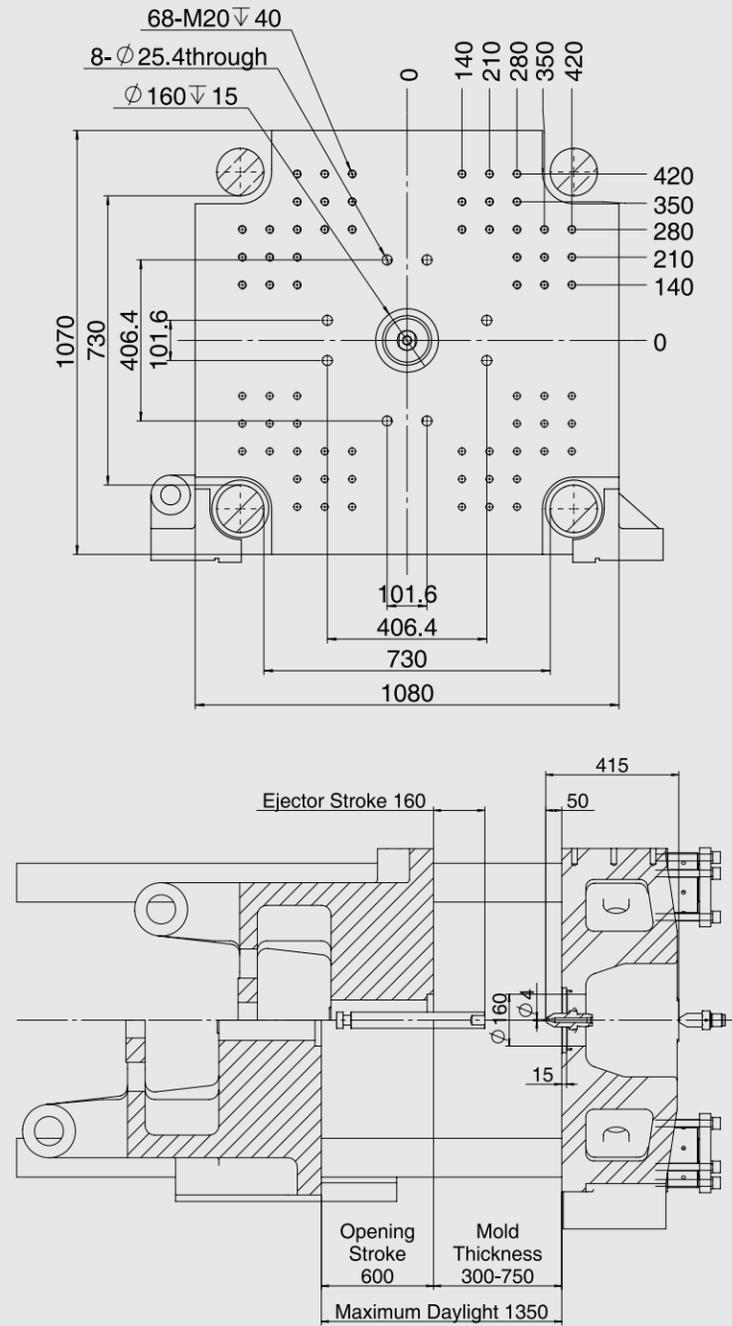
# SPARK AE 180 Euroseries



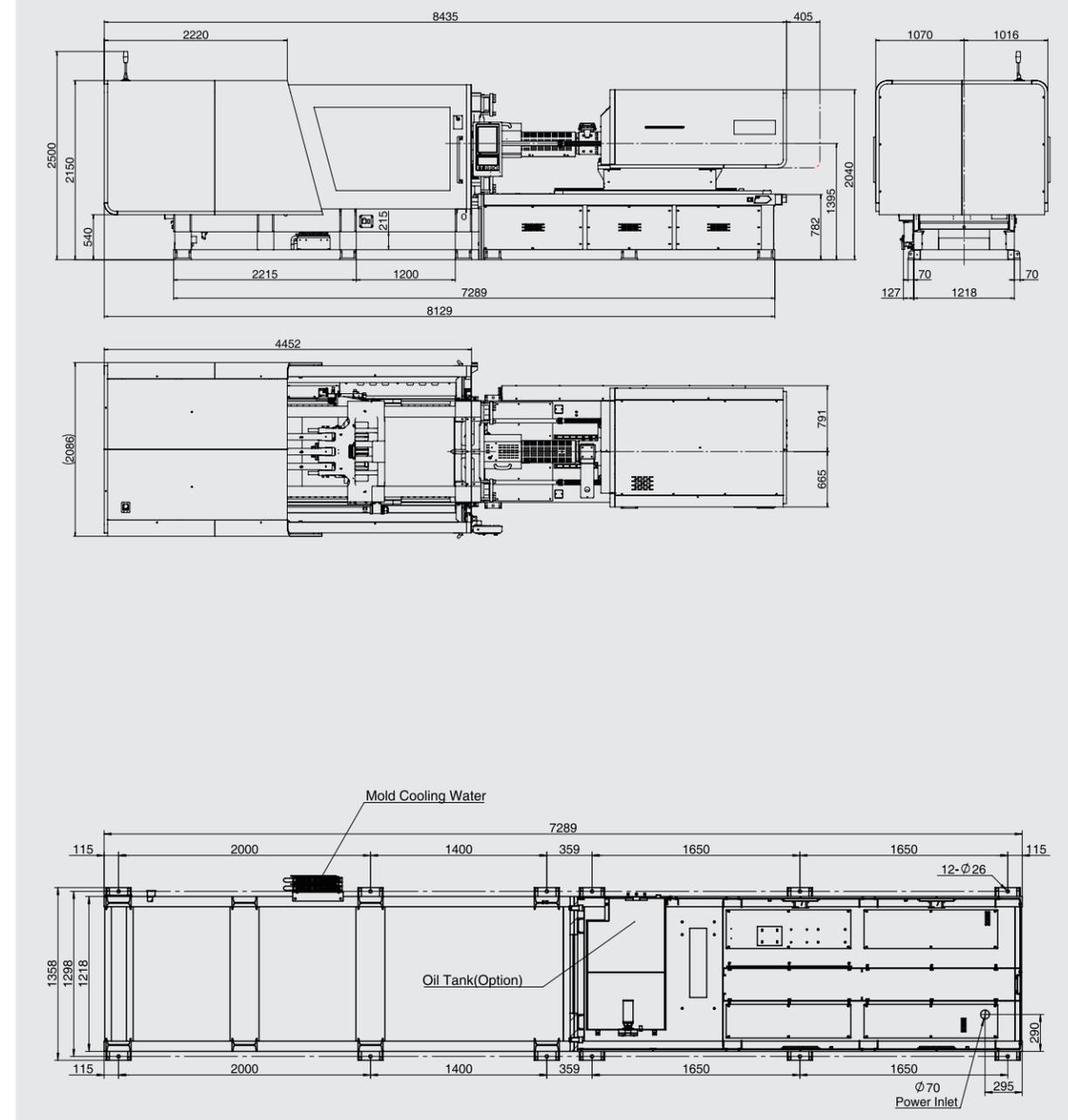
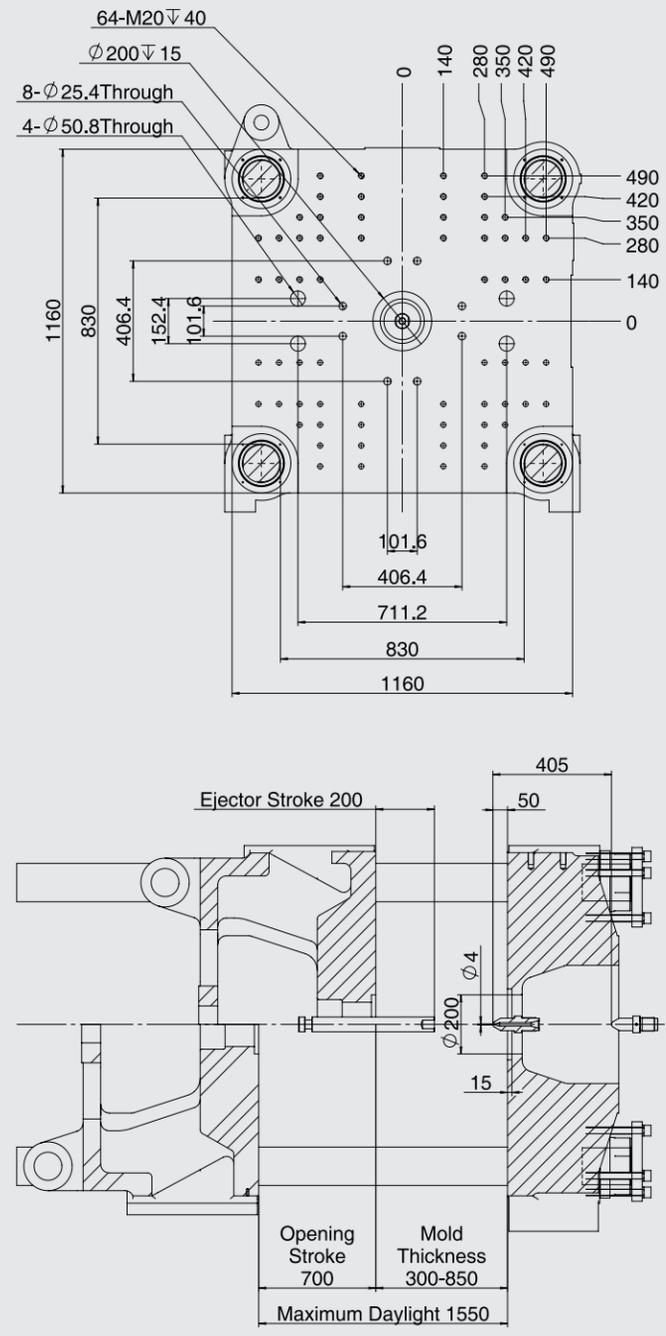
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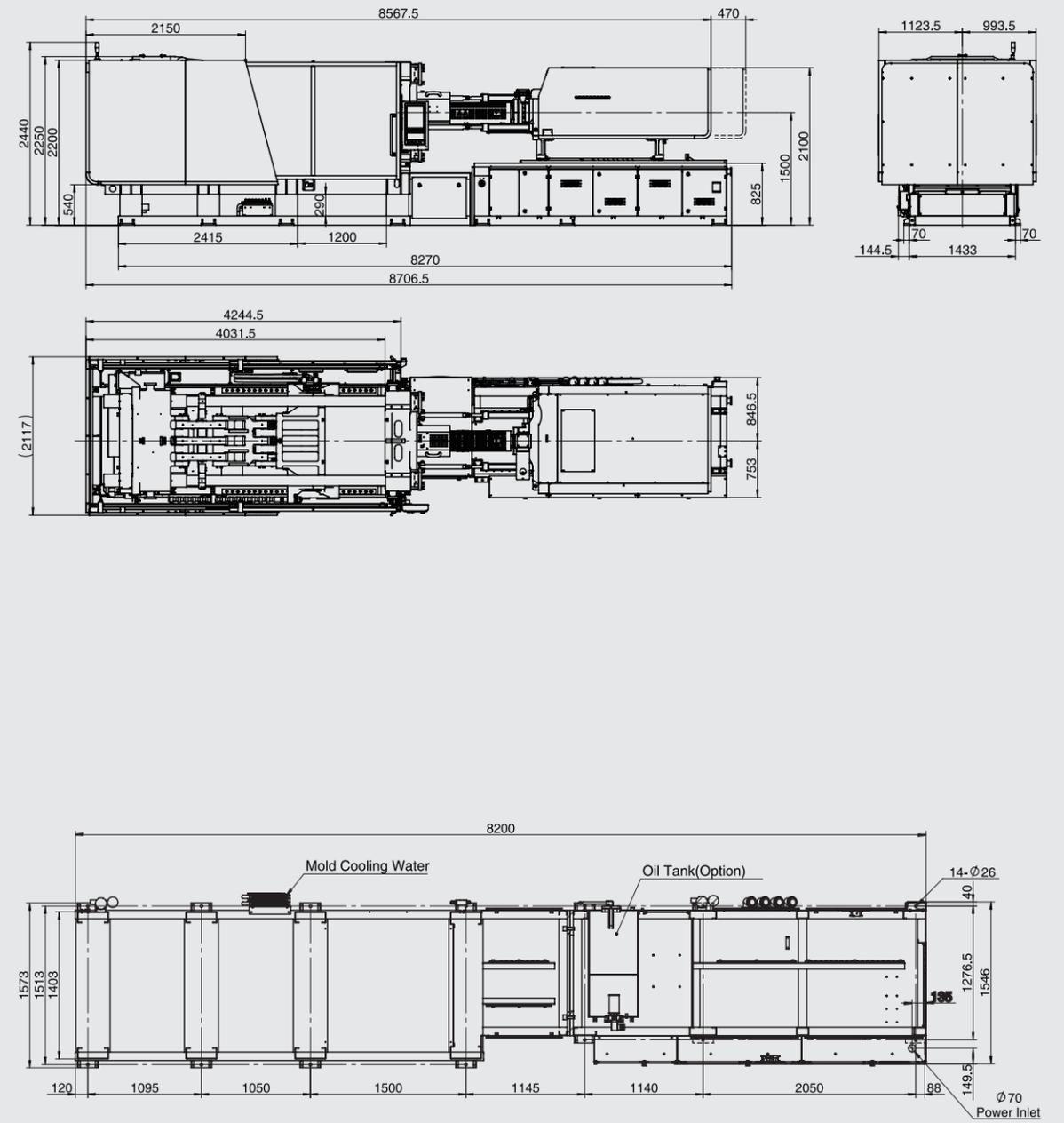
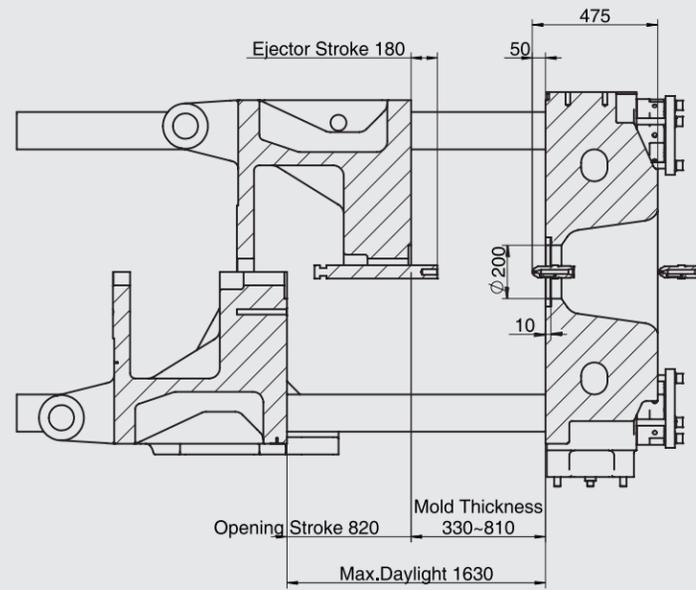
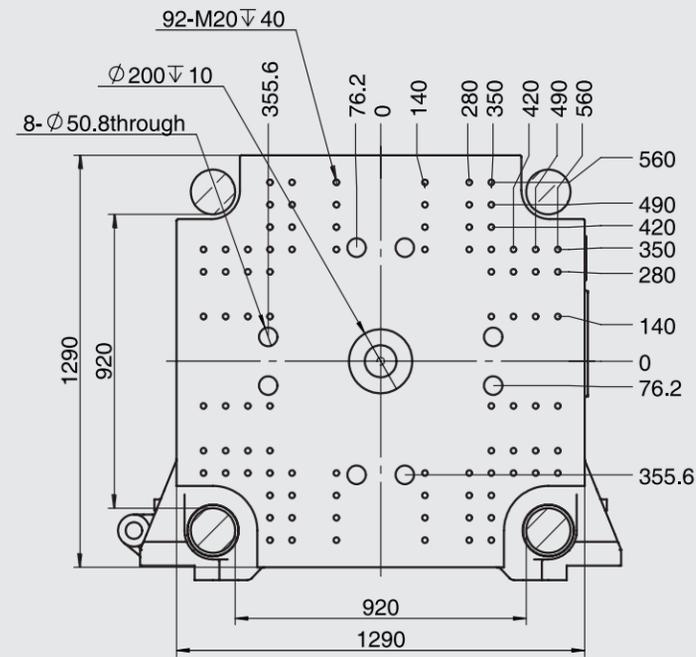
# SPARK AE 300 Euroseries



# SPARK AE 360 Euroseries



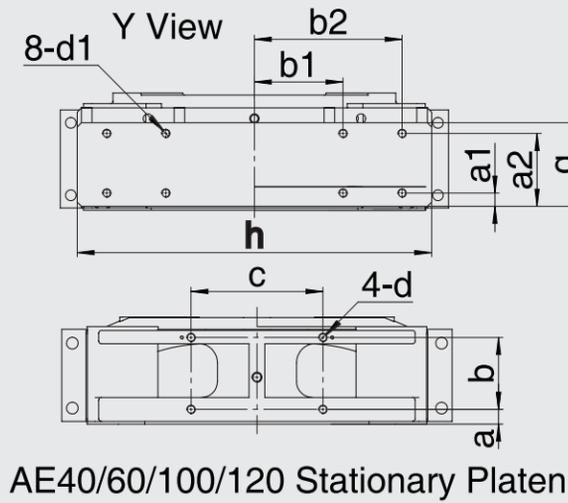
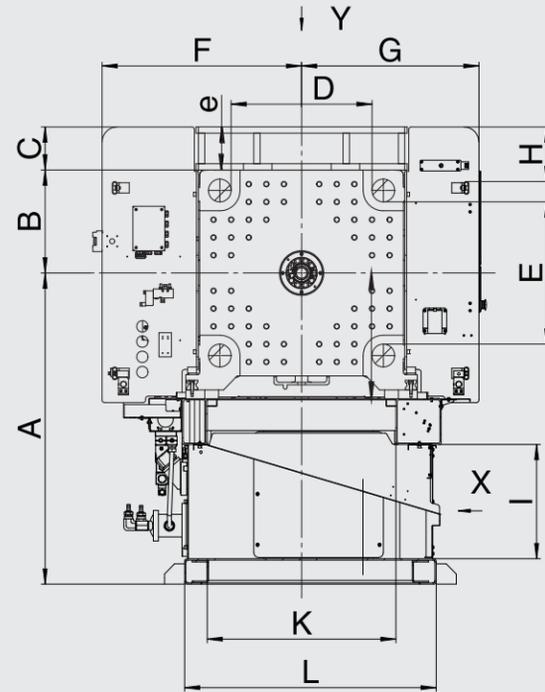
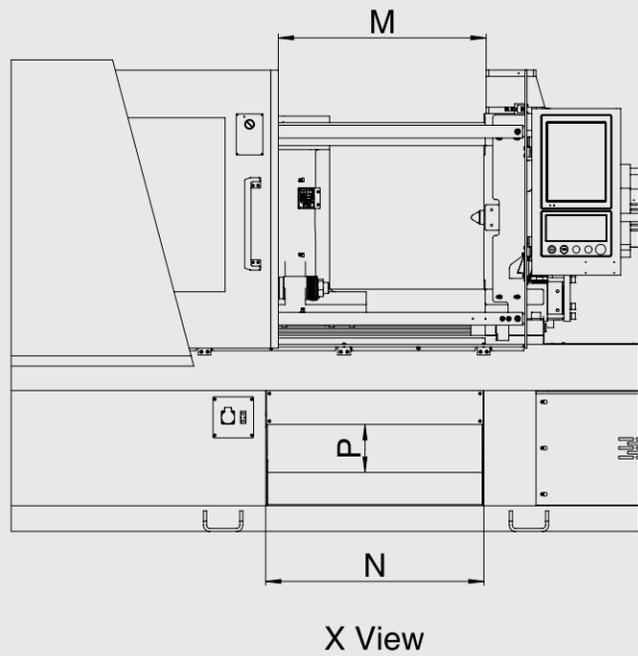
# SPARK AE 450 Euroseries



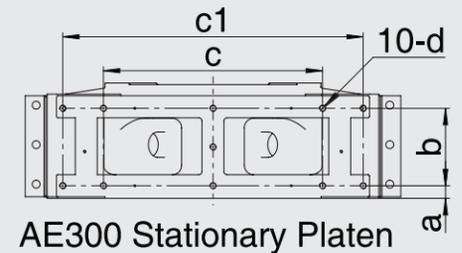


# SPARK AE Euroseries

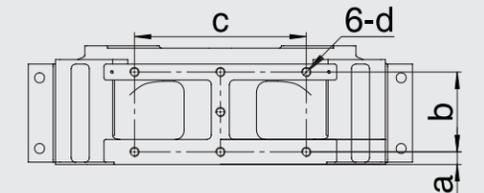
## Robot Installation Dimensions Diagrams



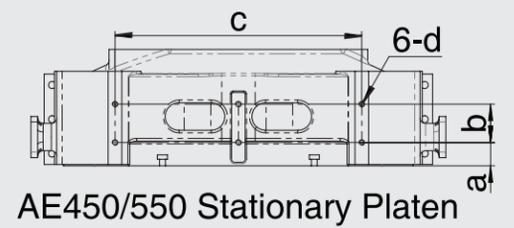
AE40/60/100/120 Stationary Platen



AE300 Stationary Platen



AE150/180/230/360 Stationary Platen



AE450/550 Stationary Platen

MODEL	A	B	C	D	E	F	G	H	I	K	L	M	N	P	a	b	c	c1	d	d1	e	g	h	a1	a2	b1	b2
AE 40	1155	215	155	304	284	565	485	/	550	345	625	510	475	170	17.5	35	280	/	M12x24	M12x24	32	120	440	50	85	140	210
AE 60	1175	245	155	365	325	655	525	/	550	385	705	600	570	160	17.5	35	280	/	M12x24	M12x24	32	120	520	50	85	140	210
AE 100	1170	300	170	460	410	670	594	215	510	630	865	710	610	170	27.5	135	250	/	M16x32	M16x32	170	136	620	34	104	175	280
AE 120	1170	300	170	460	410	670	594	215	510	630	865	710	610	170	27.5	135	250	/	M16x32	M16x32	170	136	620	34	104	175	280
AE 150	1145	300	170	510	460	730	658	215	450	710	945	800	690	140	27.5	175	380	/	M20x40	M16x32	170	136	620	34	104	175	280
AE 180	1225	405	170	560	560	793	705	215	450	750	1000	810	860	145	25	190	475	/	M20x40	M20x40	170	196	840	35	175	210	350
AE 230	1300	440	170	610	610	841	745	215	440	845	1095	970	915	140	30	245	560	/	M20x40	M20x40	170	196	840	35	175	210	350
AE 300	1390	530	160	730	730	952	818	223	295	1006	1254	1300	1120	295	40	245	700	960	M20x40	M20x40	160	206	1050	35	175	350	490
AE 360	1395	608	160	830	830	1030	976	163	215	970	1218	1335	1200	215	90	140	780	/	M20x40	M20x40	160	206	1190	35	175	350	490
AE 450	1500	675	225	920	920	1065	935	298	290	1139	1433	1550	1200	290	85	140	910	/	M20x40	M20x40	225	240	1350	35	175	420	560
AE 550	1300	675	225	920	920	1065	935	127	/	/	1348	1568	/	/	85	140	910	/	M20x40	M20x40	225	240	350	35	175	420	560

All technical data and features are subject to change without prior notice.

# SPARK AE Euroseries

STANDARD AND OPTIONAL FEATURES		
CLAMPING UNIT	STANDARD	OPTION
Automatic mould height adjustment	●	
Euromap 2 platen design	●	
Euromap 13 for core and ejector	●	
Euromap 18 for robot mounting	●	
Euromap 67 for robot communication	●	
Euromap 70 and 70.1 magnetic platen electrical interface		○
Larger maximum mould height		○
Addition of mechanical safety lock		○
Addition of photo sensor to product chute	●	
Power guard with safety bumper sensor		○
Addition of safety light curtain to front door		○
Automatic lubrication on toggle	●	
Automatic lubrication on mold height adjust	●	
Manual lubrication pump on mold height adjust		○
Anti-skid plates on walk way inside moulding area		○
X* core pullers on moving platen		○
X* airblows (1*FP, 1*MP)	1×FP 1×MP	
Additional corepullers		○
Additional airblow		○
Oil-less bushings for toggle system	●	
Parallel core movement		○
Ejection-on-fly	●	
Automatic electric front door		○
Automatic clamping force control		○
INJECTION UNIT		
Ceramic heater bands	●	
Nitrited screw and barrel		○
Bi-metallic screw and barrel		○
Barrel shut-off nozzle		○
Linear transducer on injection carriage	●	
Screw speed indicator	●	

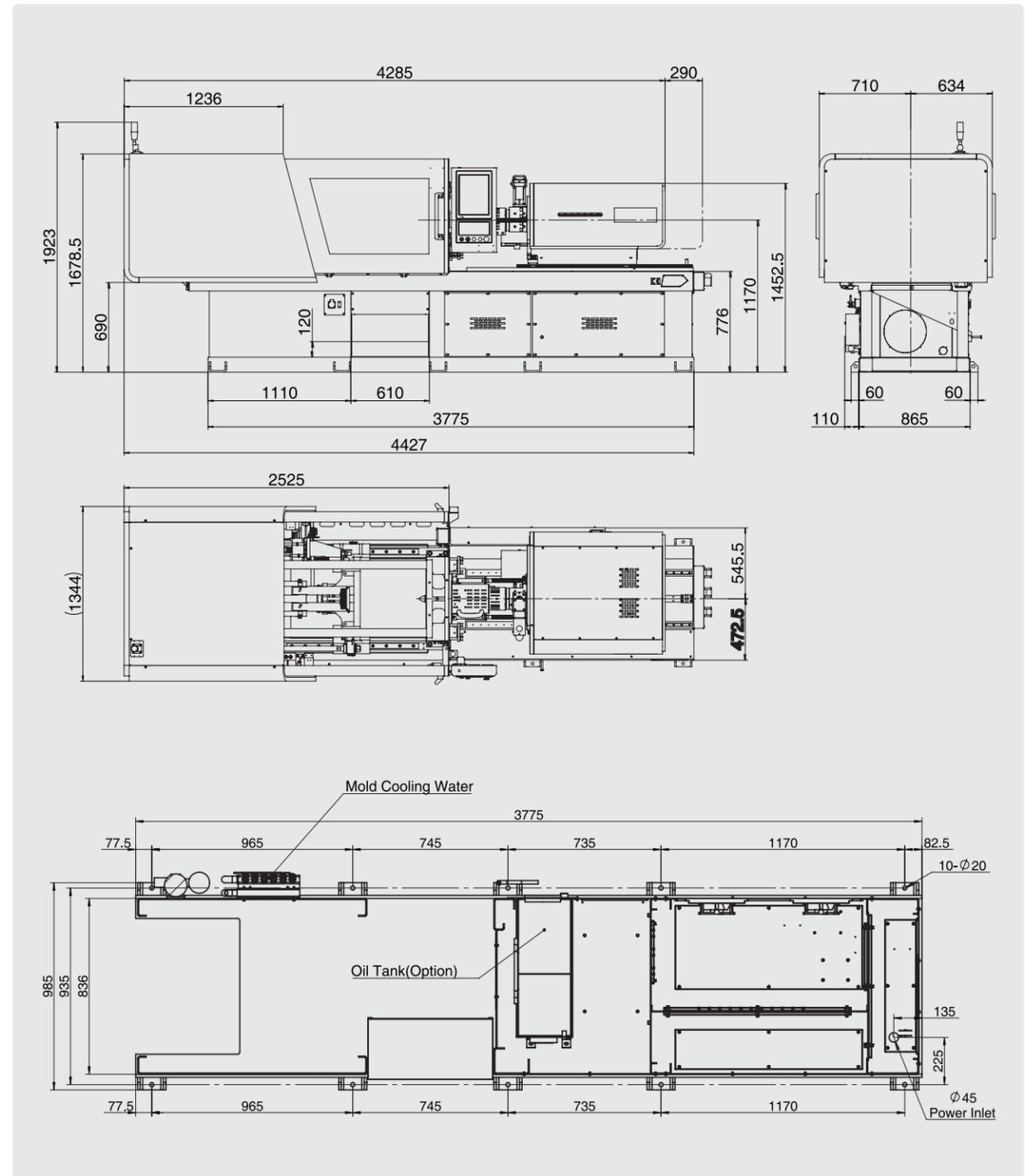
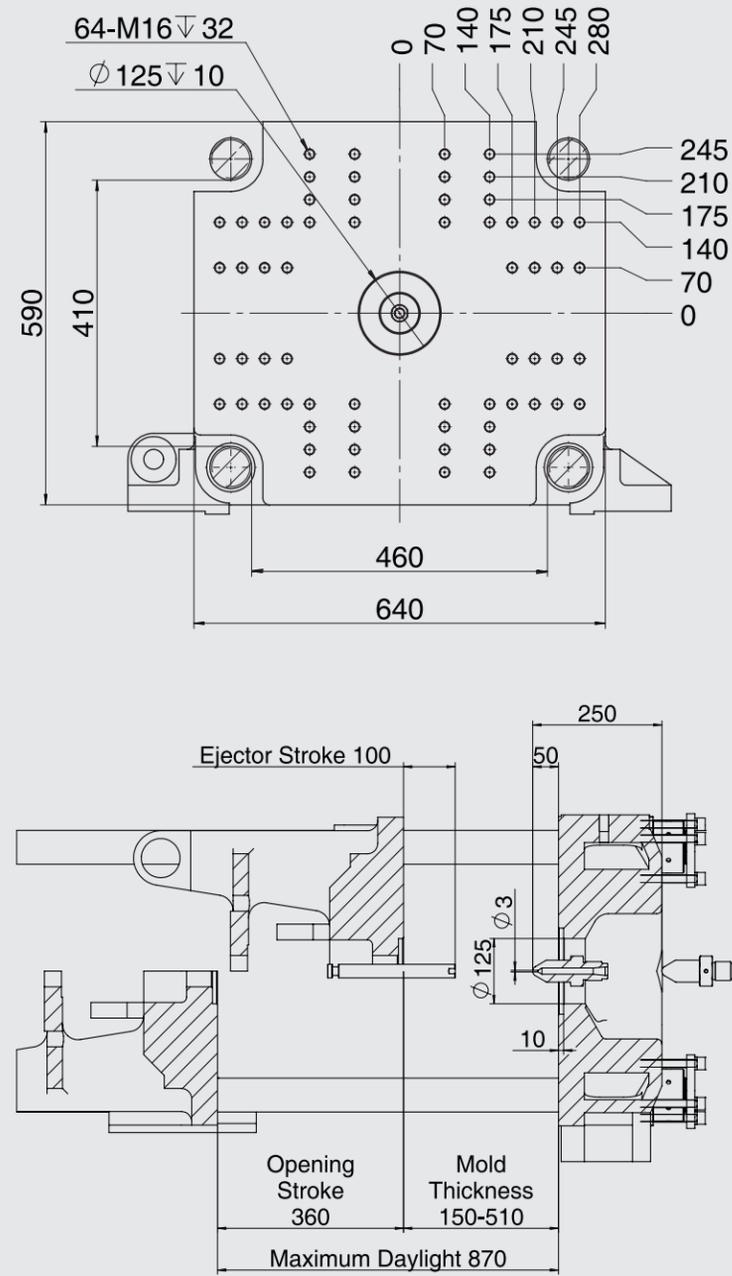
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STANDARD AND OPTIONAL FEATURES		
INJECTION UNIT	STANDARD	OPTION
Automatic injection lubrication	●	
Manual lubrication pump for injection unit		○
Parallel plasticizing	●	
Movable hopper stand	●	
Hopper		○
Injection pressure display	●	
Barrel cooling ring temperature control	●	
Automatic PID temperature control	●	
Barrel insulation jacket		○
Digital back pressure control	●	
Broken thermocouple detection alarm		○
Blocked nozzle and overflow detection	●	
Hydraulic/pneumatic sequential injection		○
CONTROLLER	STANDARD	OPTION
CHE controller (15.6" display)	●	
High-precision mould safety	●	
Ethernet interface for teleservice via internet (hardware only)	●	
USB interface	●	
Euromap 67 interface	●	
Industry 4.0		○
OPC-UA		○
Free i/o configuration	●	
Integrated hotrunner system (software provision only)	●	
OTHERS		
Power sockets 3-phase 400V 32A	2	
Power sockets 3-phase 400V 16A		○
power sockets 1-phase 240V 32A	1	
power sockets 1-phase 240V 16A		○
Waterflow regulators (more available upon request)		○
J-type thermocouple	●	

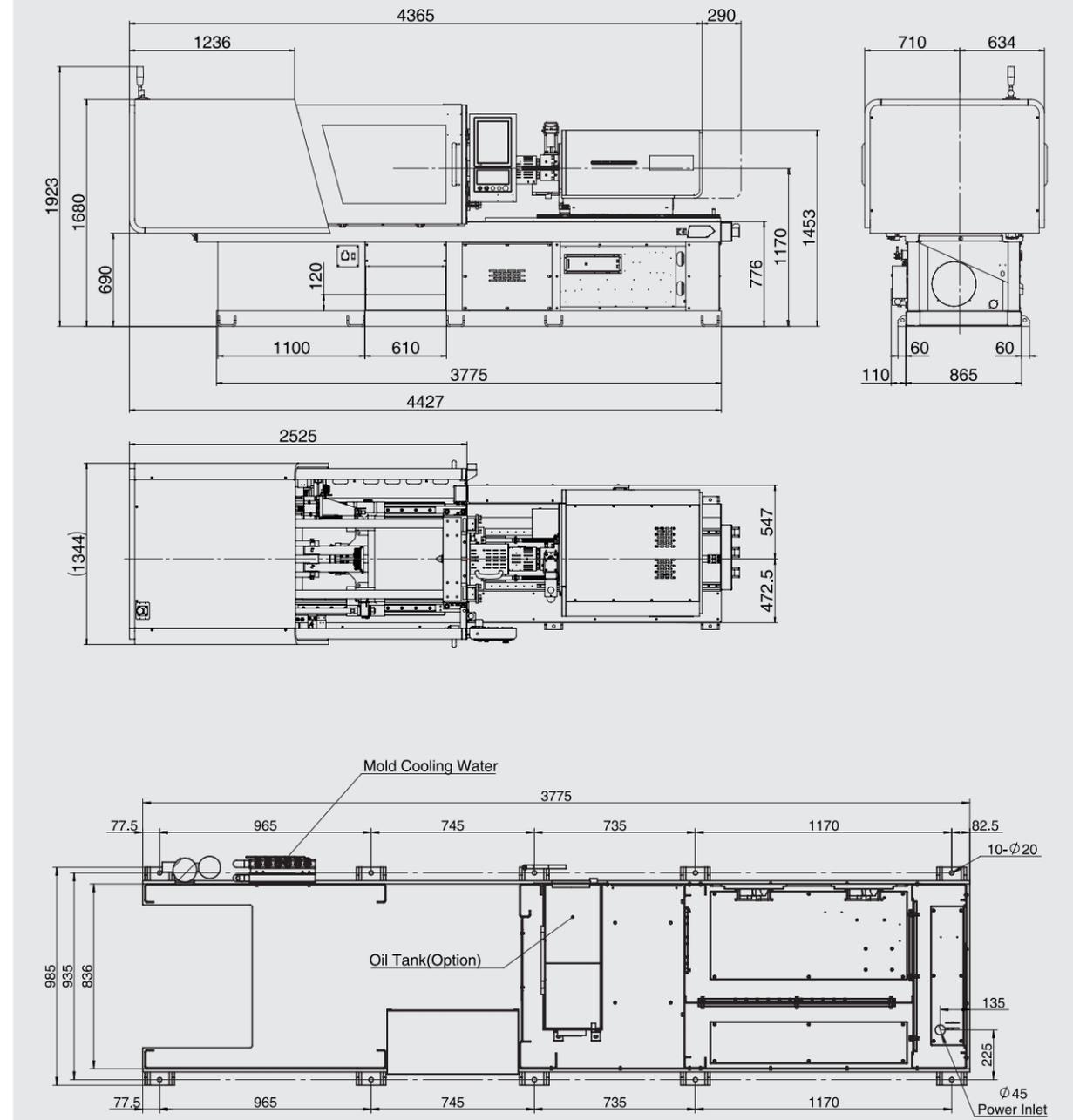
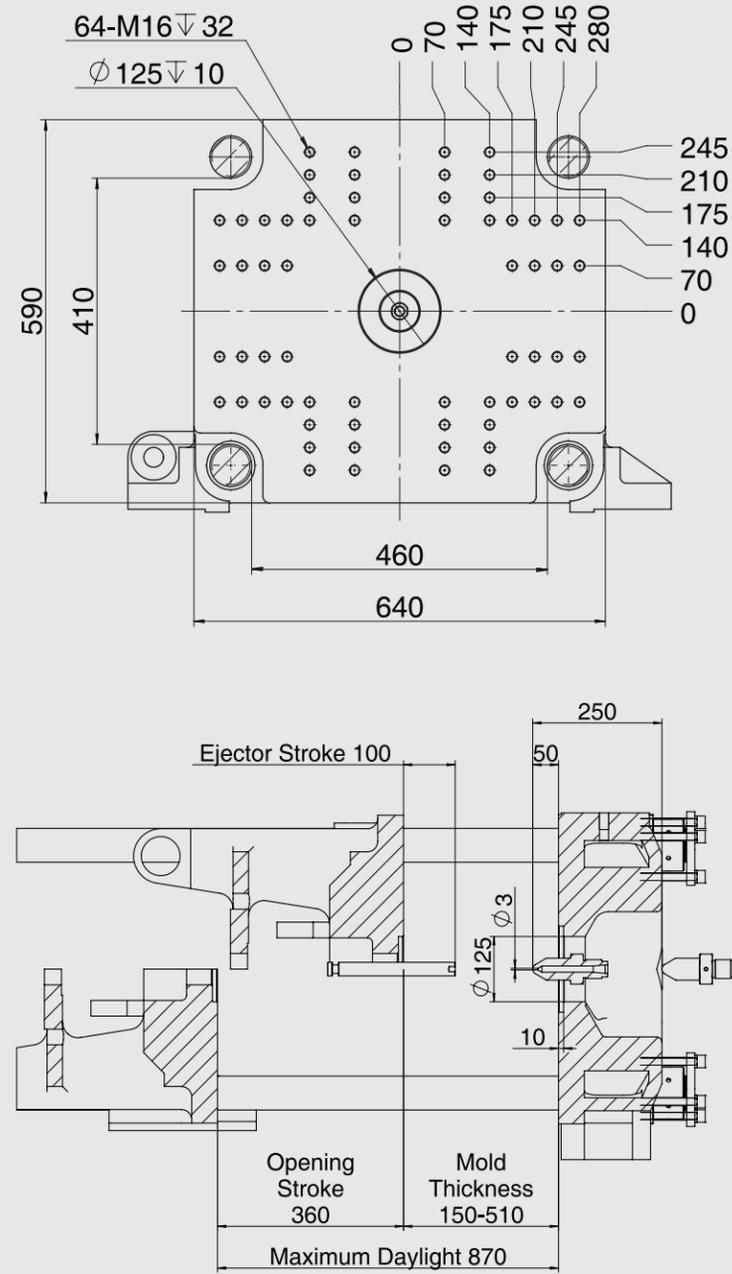
# SPARK EH Euroseries

SPECIFICATIONS		UNIT	EH100			EH120			EH150						EH180			EH230			EH300						EH360			EH450			EH550									
INJECTION UNIT			A	B	C	A	B	C	A	B	C	A+	B+	C+	D+	A	B	C	A	B	C	A	B	C	A+	B+	C+	A	B	C	A	B	C	A	B	C						
Screw Diameter	mm		25	28	32	28	32	36	28	32	36	32	36	41	46	36	41	46	36	41	46	46	52	60	60	67	75	60	67	75	65	70	80	70	80	90						
Injection Stroke	mm		100	110	110	110	110	110	110	110	110	160	180	205	230	180	205	230	180	205	230	230	260	285	300	330	360	300	330	360	325	325	325	425	425	425						
Injection Volume	cm³		49	67	88	67	88	112	67	88	112	128	183	270	382	183	270	382	183	270	382	382	552	805	848	1163	1590	848	1163	1590	1078	1251	1634	1634	2136	2704						
Injection Shot Weight	g		45	62	81	62	81	103	62	81	103	118	168	249	351	168	249	351	168	249	351	351	507	740	780	1070	1462	780	1070	1462	992	1151	1503	1472	1923	2433						
Injection Shot Weight	oz		1.6	2.2	2.9	2.2	2.9	3.6	2.2	2.9	3.6	4.2	5.9	8.8	12.4	5.9	8.8	12.4	5.9	8.8	12.4	12.4	17.9	26	27.6	37.8	51.6	27.6	37.8	51.6	34.99	40.64	53.02	53.02	67.7	85.68						
Injection Rate	cm³/s		98	123	160	123	160	203	123	160	203	160	203	264	332	203	264	332	203	264	332	332	425	565	565	705	883	565	705	883	531	616	804	615.7	804.2	1017.8						
Injection Speed	mm/s		200			200			200			200				200			200			200			200			160			160											
Injection Pressure(Max.)	MPa		260	220	175	220	175	138	220	175	138	300	235	183	145	250	235	176	250	235	176	306	240	180	234	188	150	234	188	150	209	180	138	209	180	138						
Holding Pressure	MPa		208	176	140	176	140	110	176	140	110	240	188	146.4	116	200	188	142	200	188	142	1244	192	144	187	150	120	187	150	120	167	144	110	167	144	110						
Plasticizing Rate	g/s		7.8	11	15	11	15	21	11	15	21	15	21	26	35	21	26	36	21	26	35	30	48	64	50	80	95	50	80	95	56	65	80	56	65	80						
Screw RPM(Max.)	rpm		350			350			350			350				350			300			235			235			210			210											
Barrel Heating Power	kW		6.3	7.2	8.2	7.2	8.2	8.9	7.2	8.2	8.9	10.7	12.4	14.3	16.7	12.4	14.3	16.7	12.4	14.3	16.7	19.7	22.8	26	30.2	33.6	39.4	30.2	33.6	39.4	36.1	38.8	53.2	36.1	38.8	53.2						
Barrel Temperature Zones			3+1			3+1			3+1			3+1				3+1			3+1			4+1			4+1			4+1			4+1											
Nozzle Contact Force(Max.)	kN		41			41			41			61				61			61			90			90			90			111			111								
CLAMPING UNIT																																										
Clamping Force(Max.)	kN		1000			1200			1500						1800			2300			3000						3600			4500			5500									
Mold Opening Stroke	mm		360			360			420						480			550			600						700			820			820									
Mold Platen Dimensions(HxV)	mm		640x590			640x590			730x680						800x795.5			890x885.5			1080x1070						1160x1160			1290x1290			1290x1290									
Distance Between Tie Bars(HxV)	mm		460x410			460x410			510x460						560x560			610x610			730x730						830x830			920x920			920x920									
Mold Thickness(Min.-Max.)	mm		150-510			150-510			180-520						200-600			250-680			300-750						300-850			330-810			330-810									
Max.Daylight	mm		870			870			940						1080			1230			1350						1550			1630			1630									
Ejector Force	kN		34			34			34						67			67			67						111			98			98									
Ejector Stroke	mm		100			100			120						120			150			160						200			180			180									
No.Of Ejector	PCS		1			1			1						9			9			9						13			13			13									
Locating Ring Diameter	mm		125			125			125						160			160			160						200			200			200									
OTHERS																																										
Rated Motor Power	kW		18			20			20			27				37			37			50						69			69			54.8			54.8					
Max. Rated Current	A		37			49			49			65				84			84			117						157			157			147			147					
Max. System Pressure	MPa		17.5			17.5			17.5			17.5				17.5			17.5			17.5						17.5			17.5			17.5			17.5					
System Flow	L/Min		30			30			45			45				74			74			90						90			116			116			116					
Oil Tank Capacity	L		60			60			90			90				150			150			160						160			210			210			210					
Machine Dimensions(LxWxH)	mm		4575x1384x1923			4655x1384x1923			5362x1514x1935						6164x1514x1935				6449x1618x2079			6794x1706x2189			7856x1970x2471						8465x1970x2471			8875x2126x2500			9448x2130x2440			9900x2130x2234		
Machine Weight	kg		3900			4100			5800			6500				7700			10200			14900						15700			18500			22000			24700					

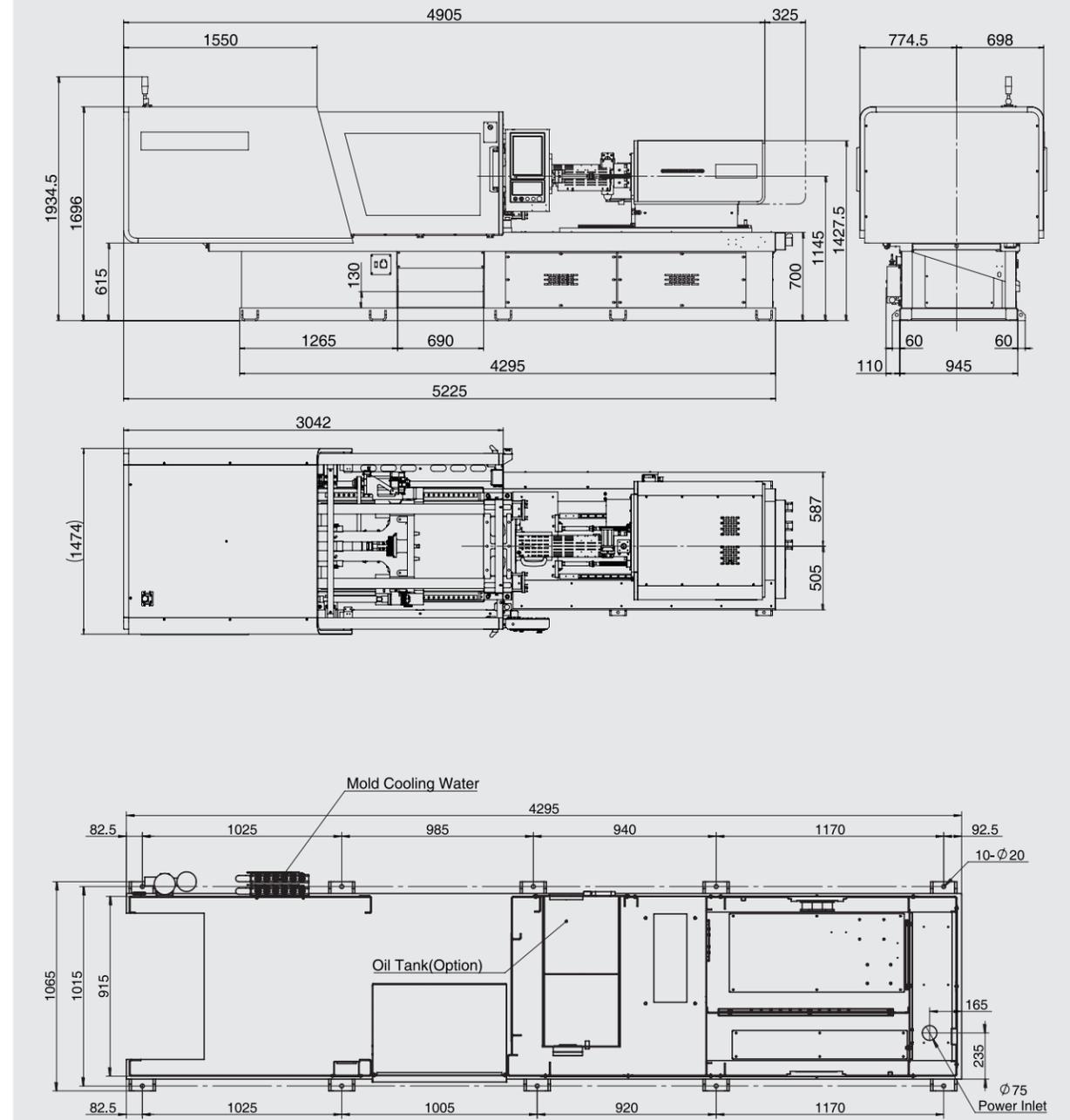
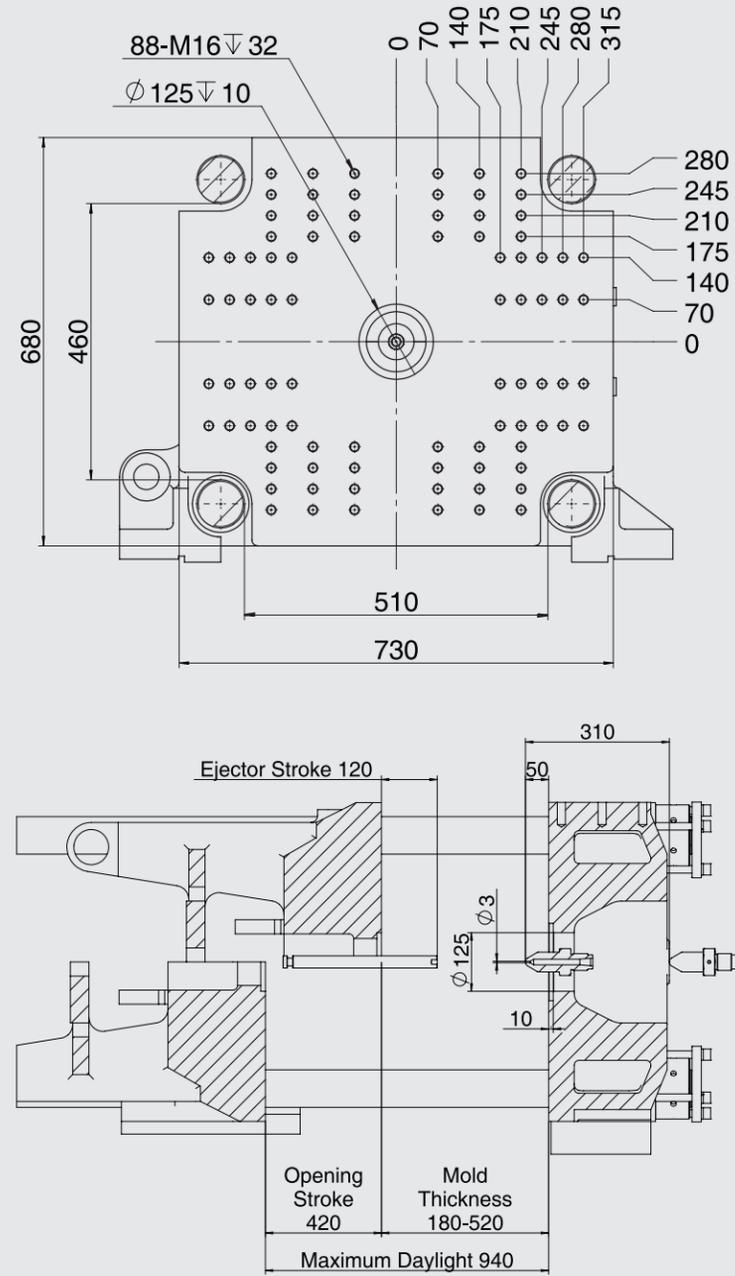
# SPARK EH 100 Euroseries



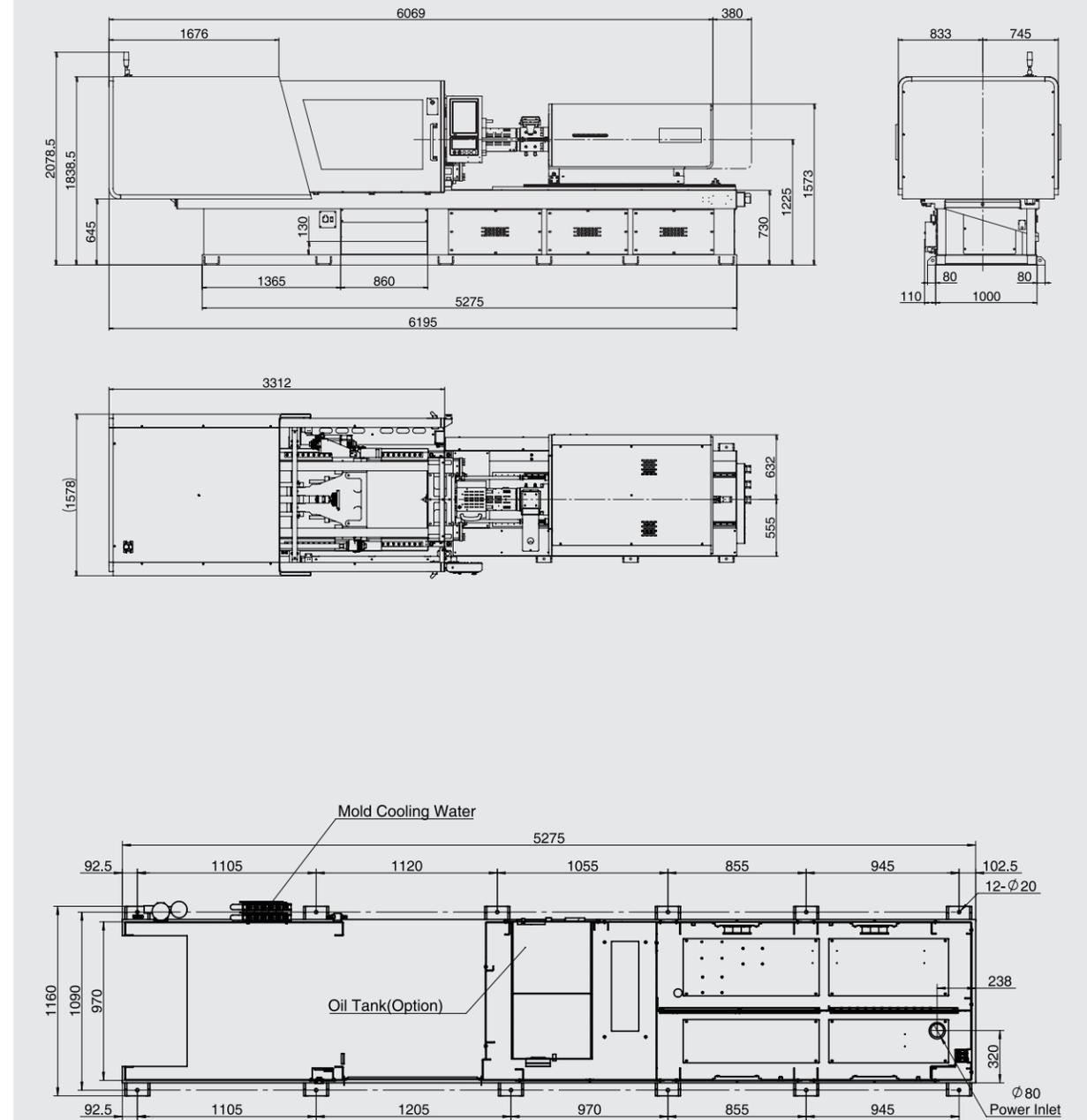
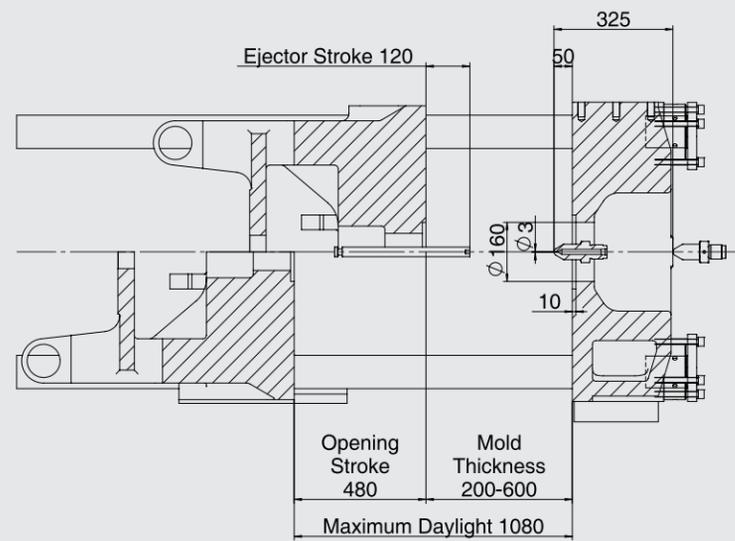
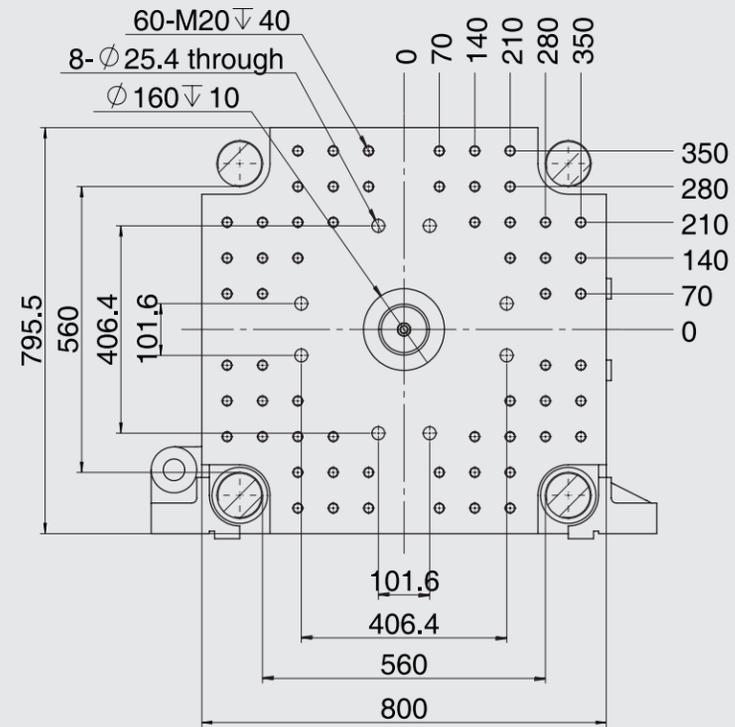
# SPARK EH 120 Euroseries



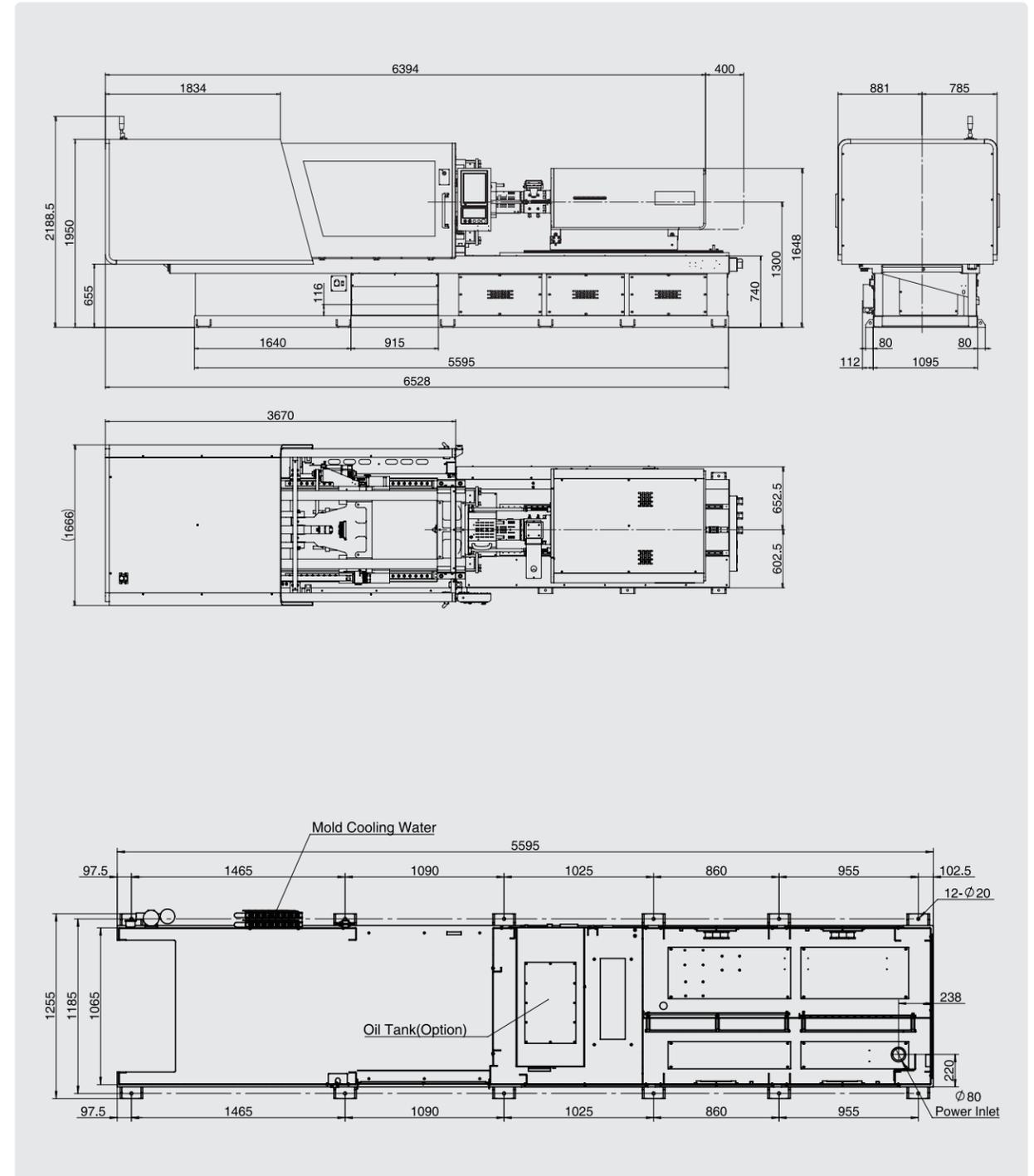
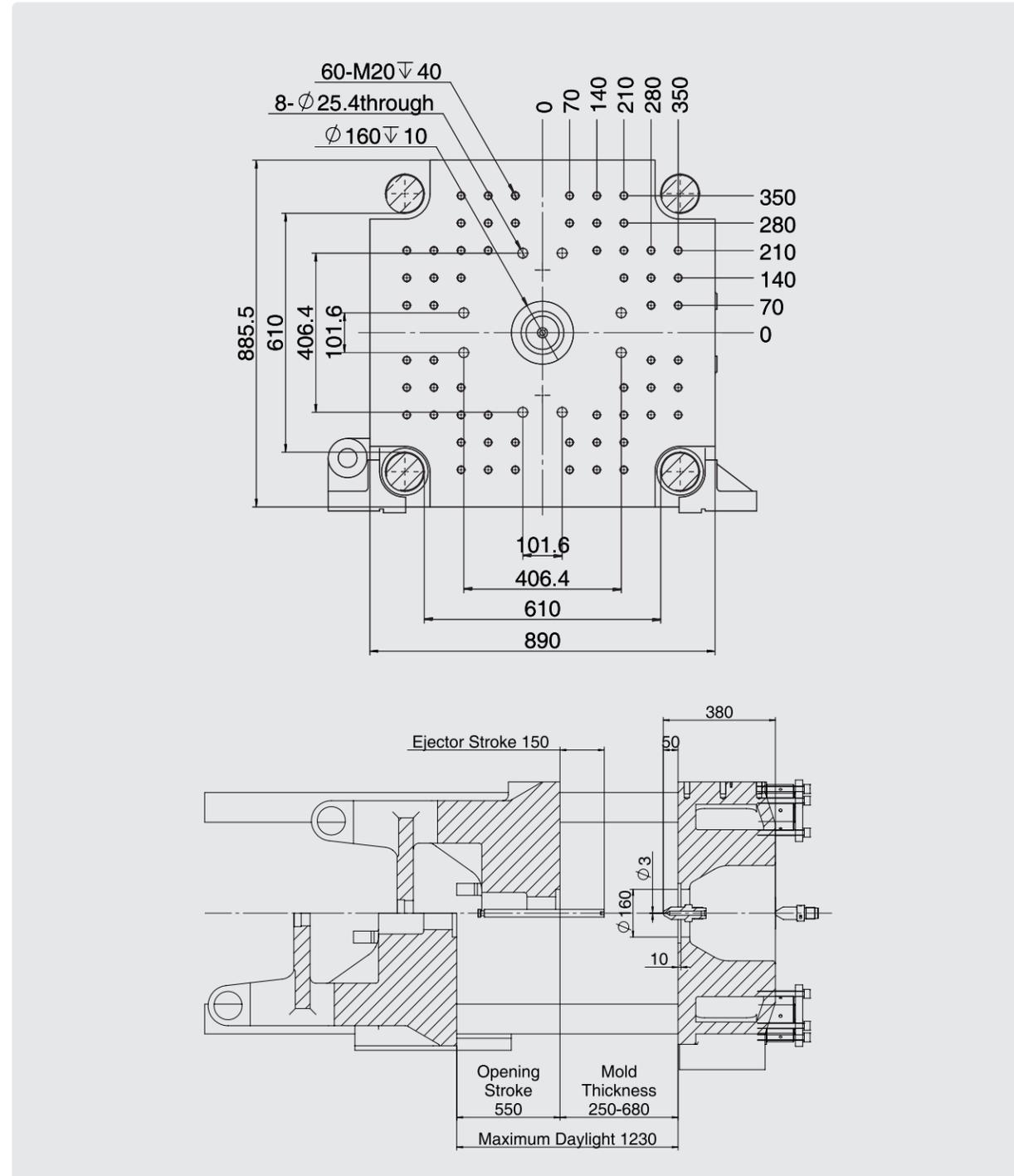
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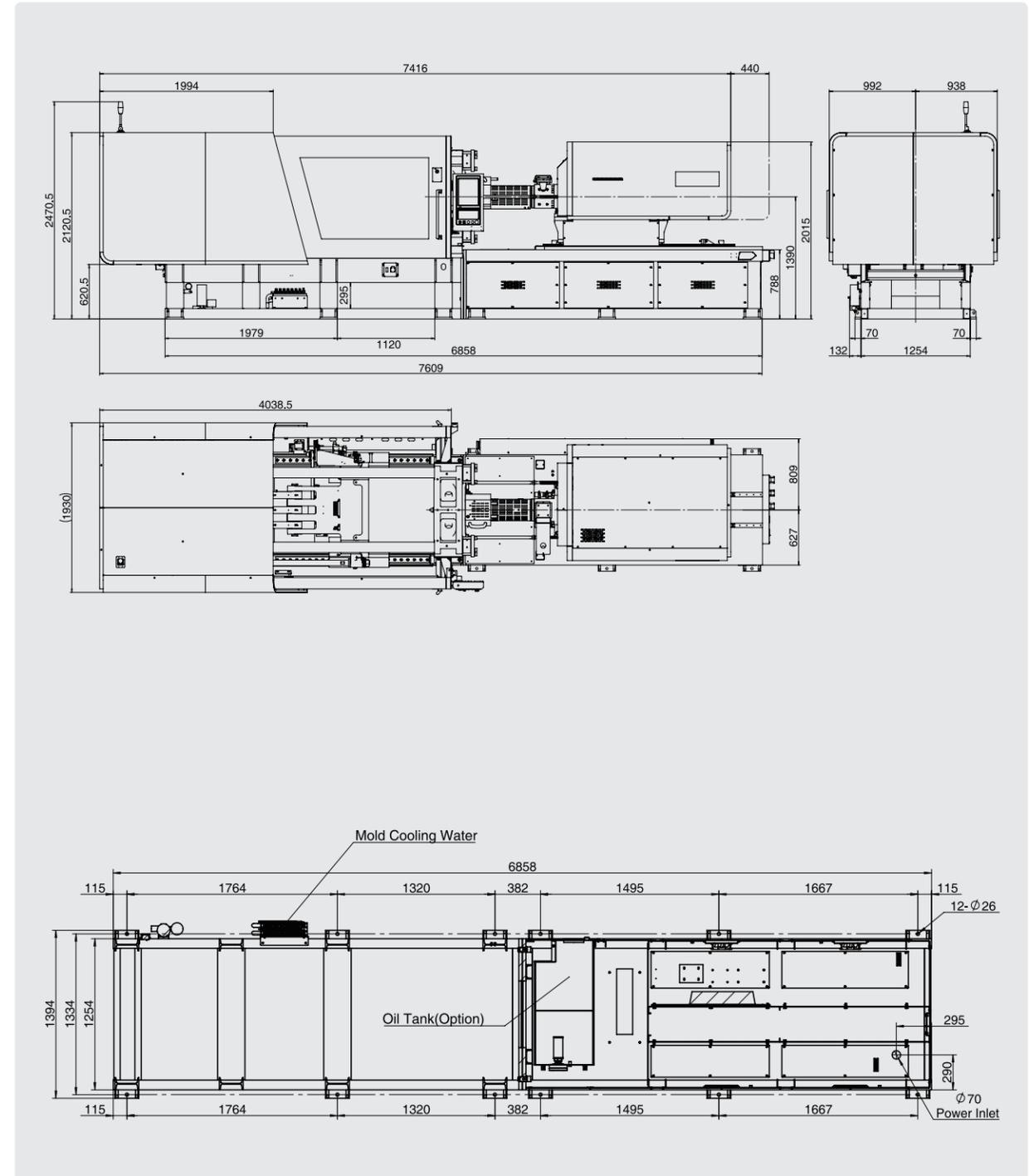
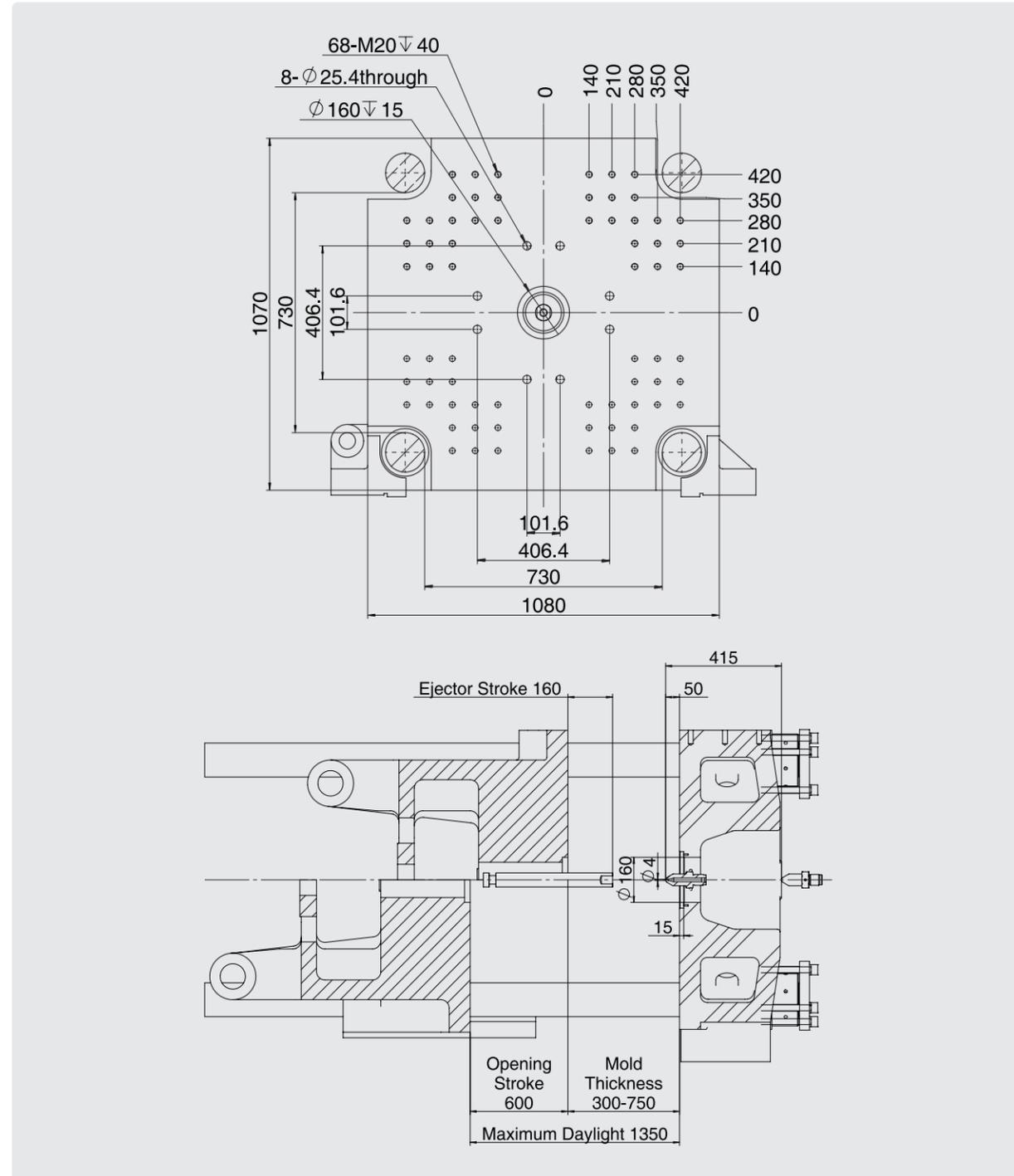
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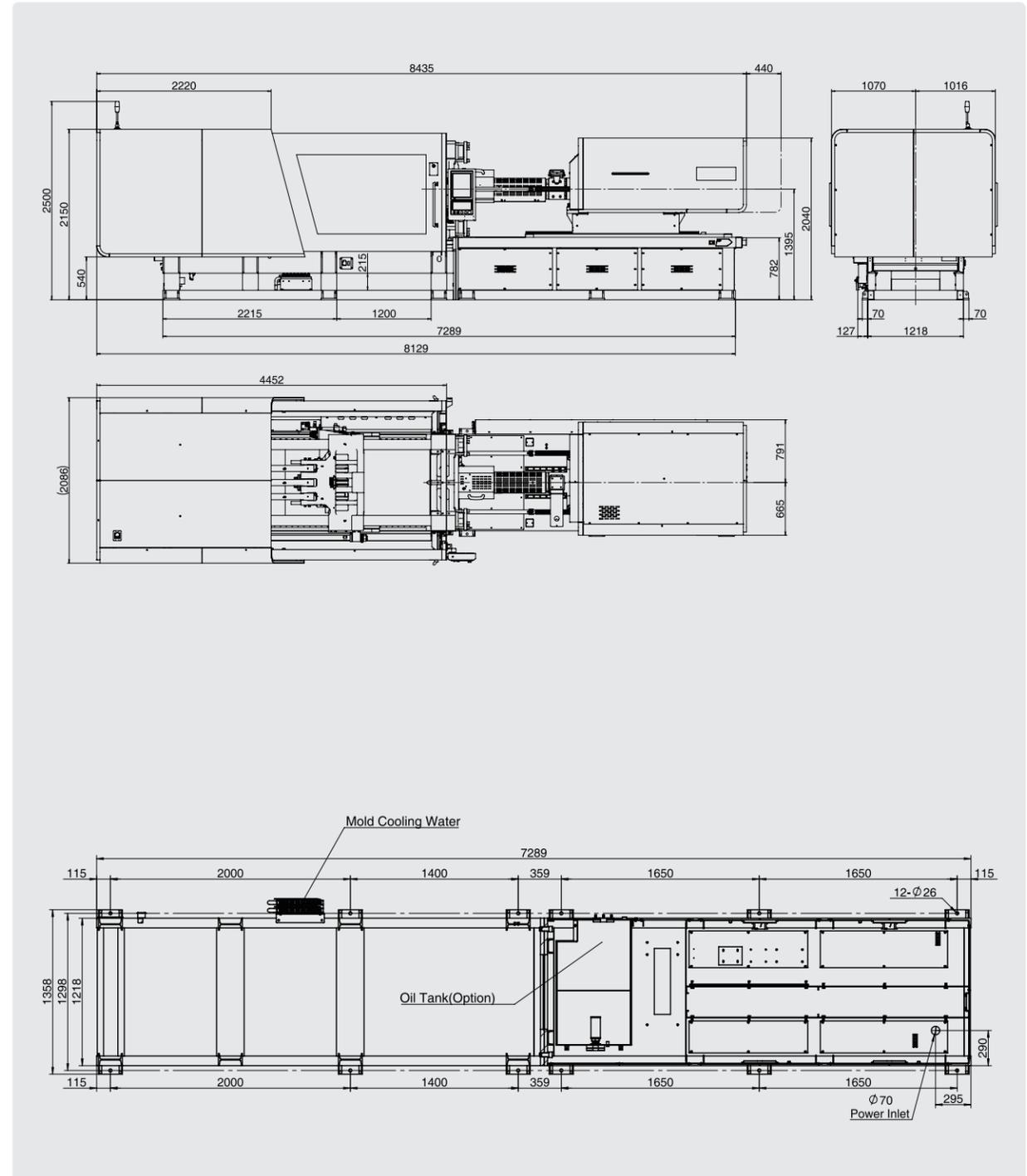
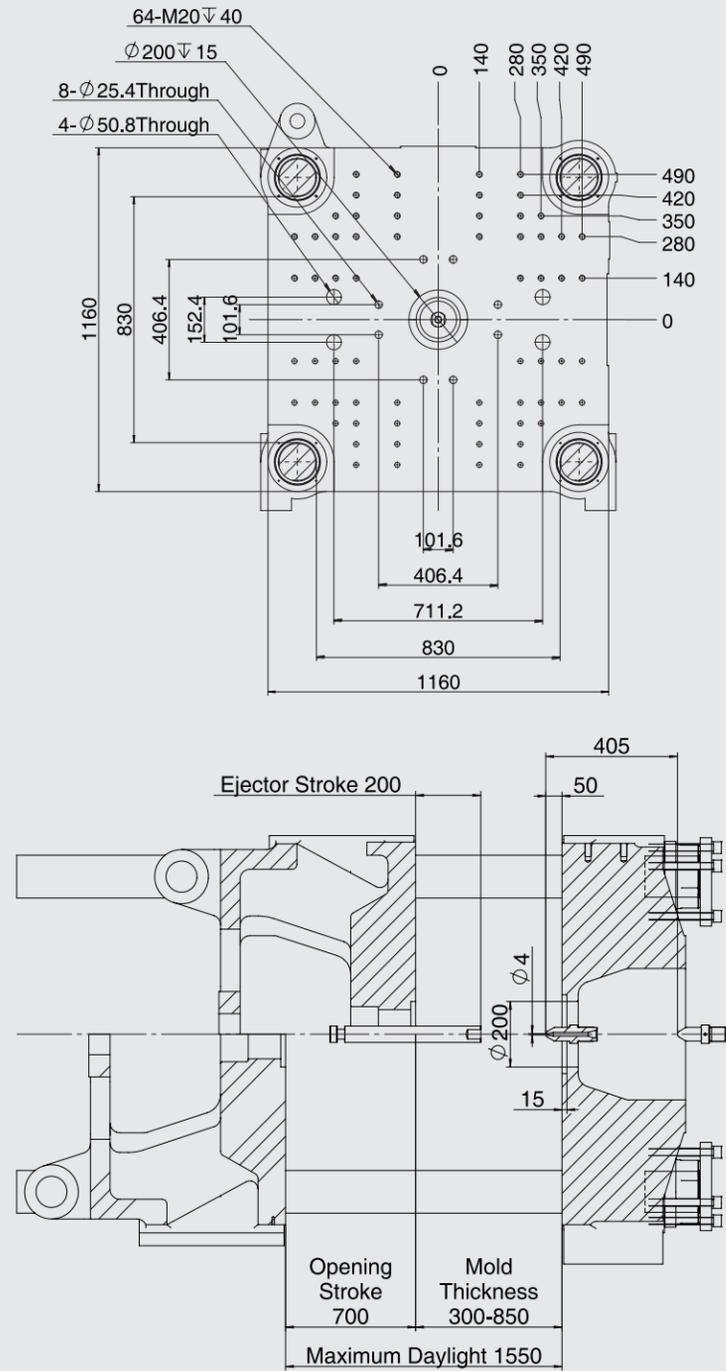
# SPARK EH 230 Euroseries



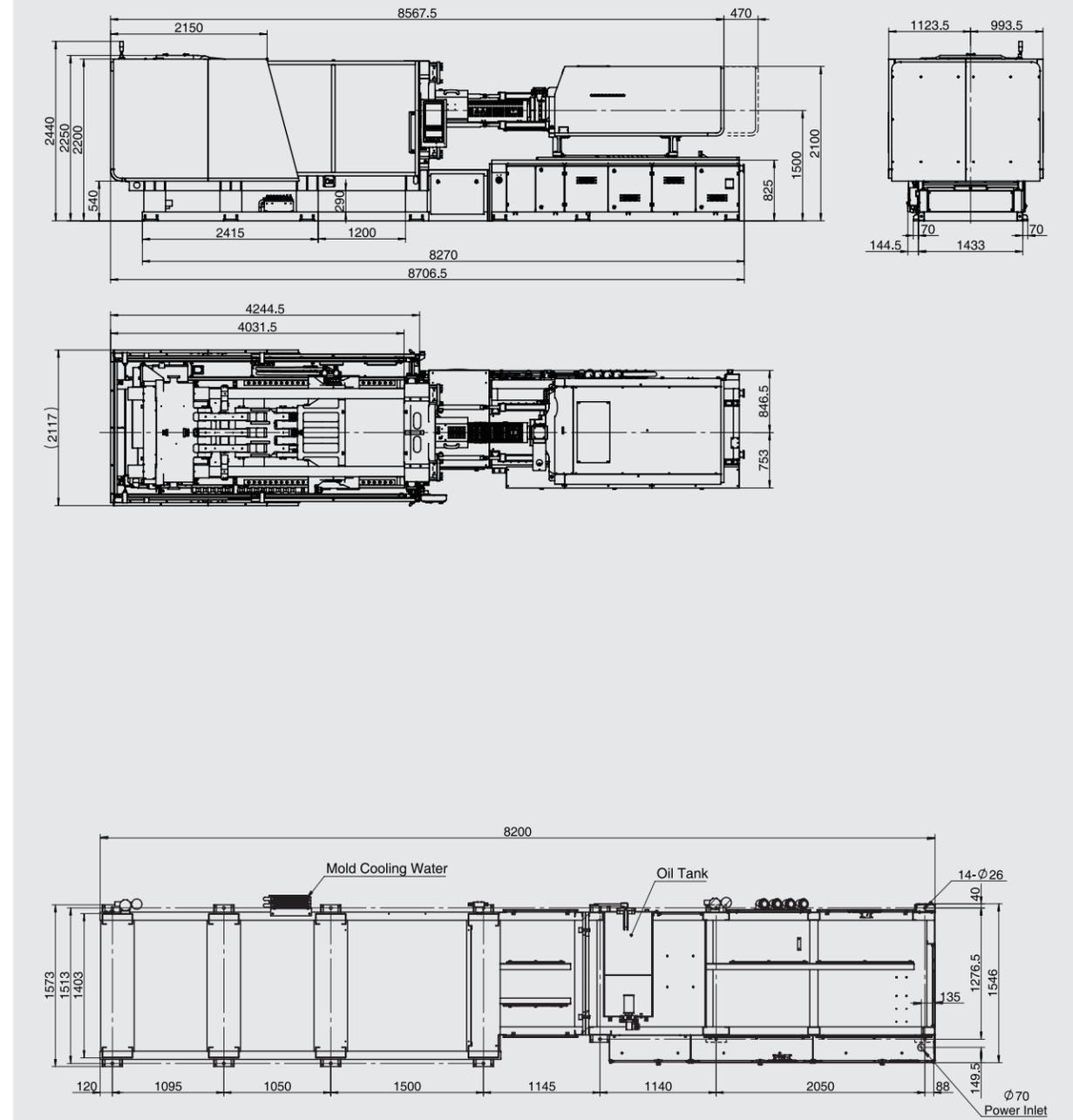
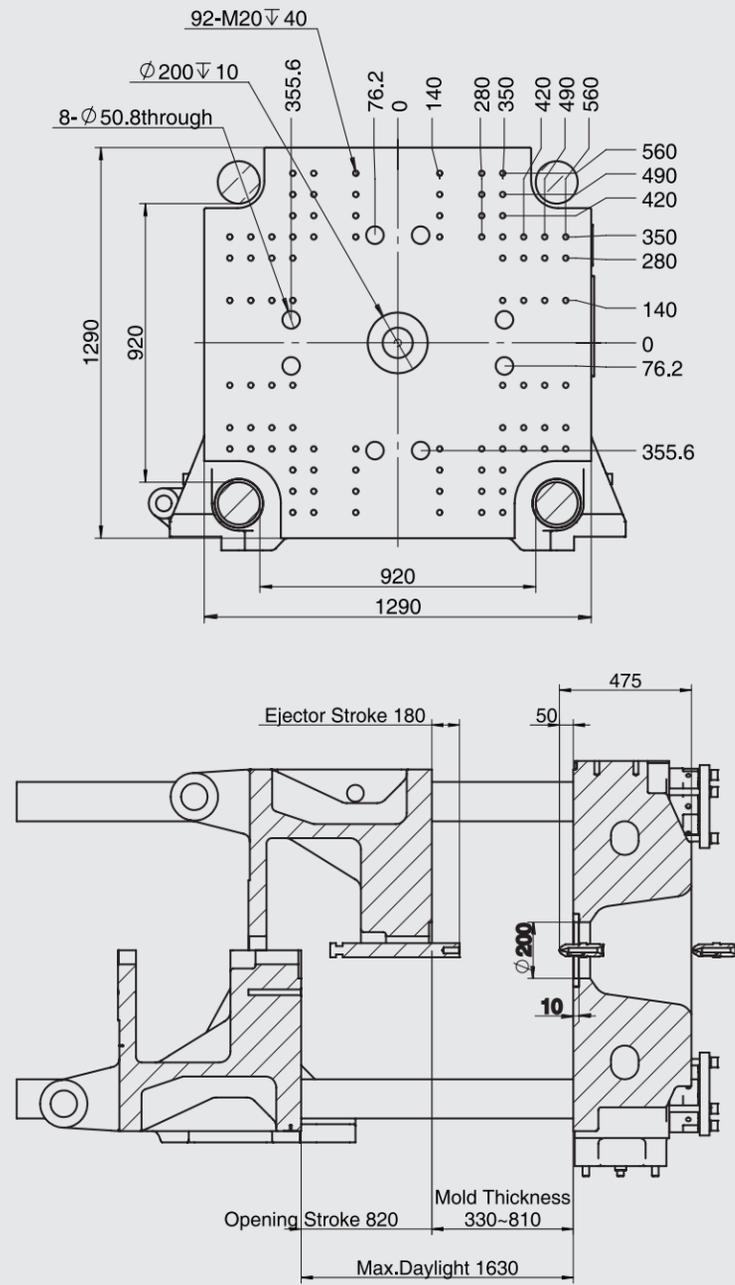
# SPARK EH 300 Euroseries



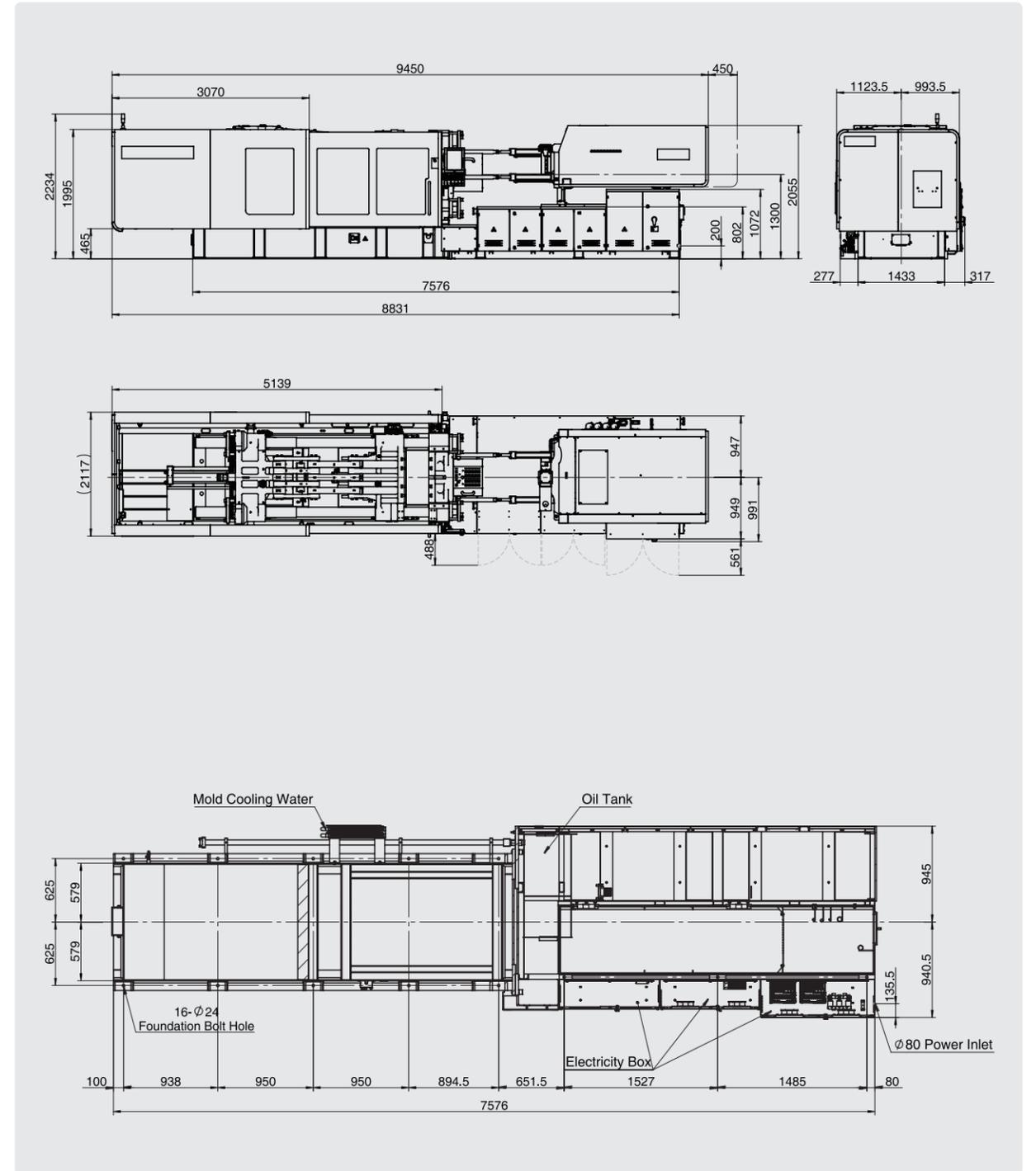
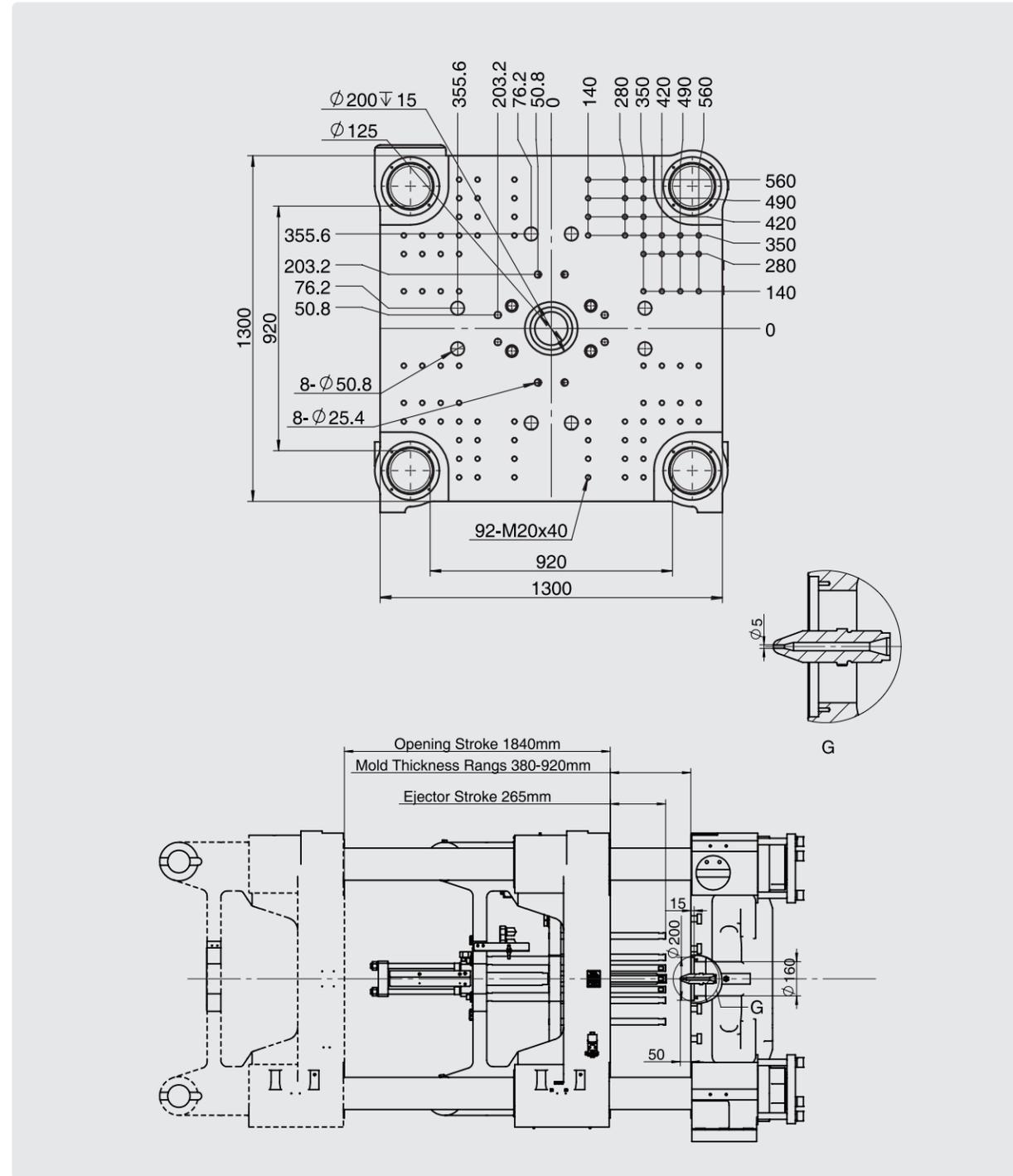
# SPARK EH 360 Euroseries



# SPARK EH 450 Euroseries



# SPARK EH 550 Euroseries



# SPARK EH Euroseries

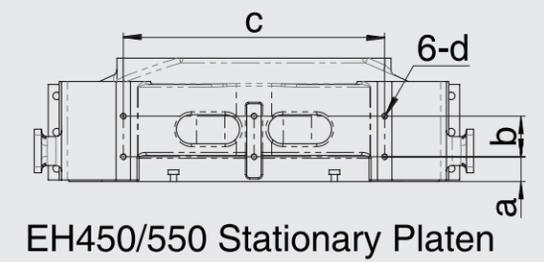
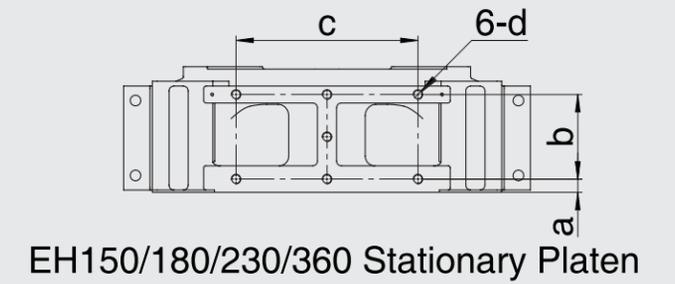
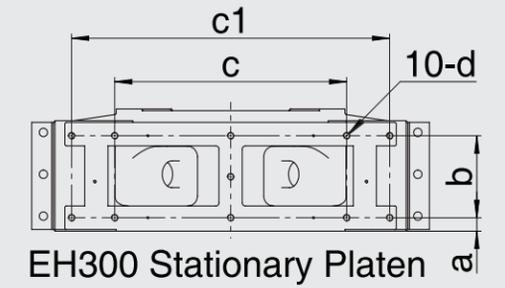
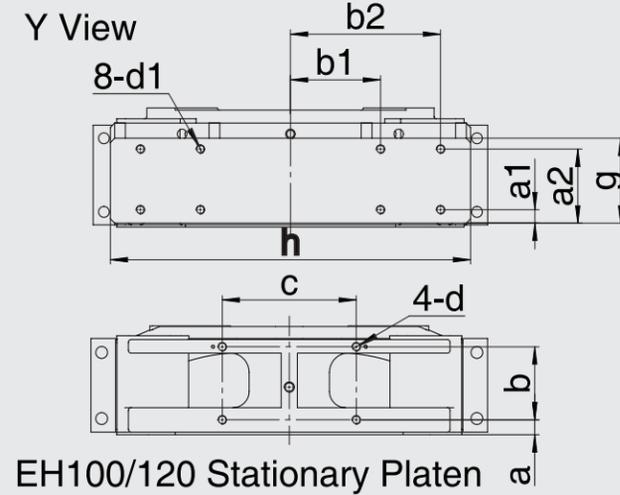
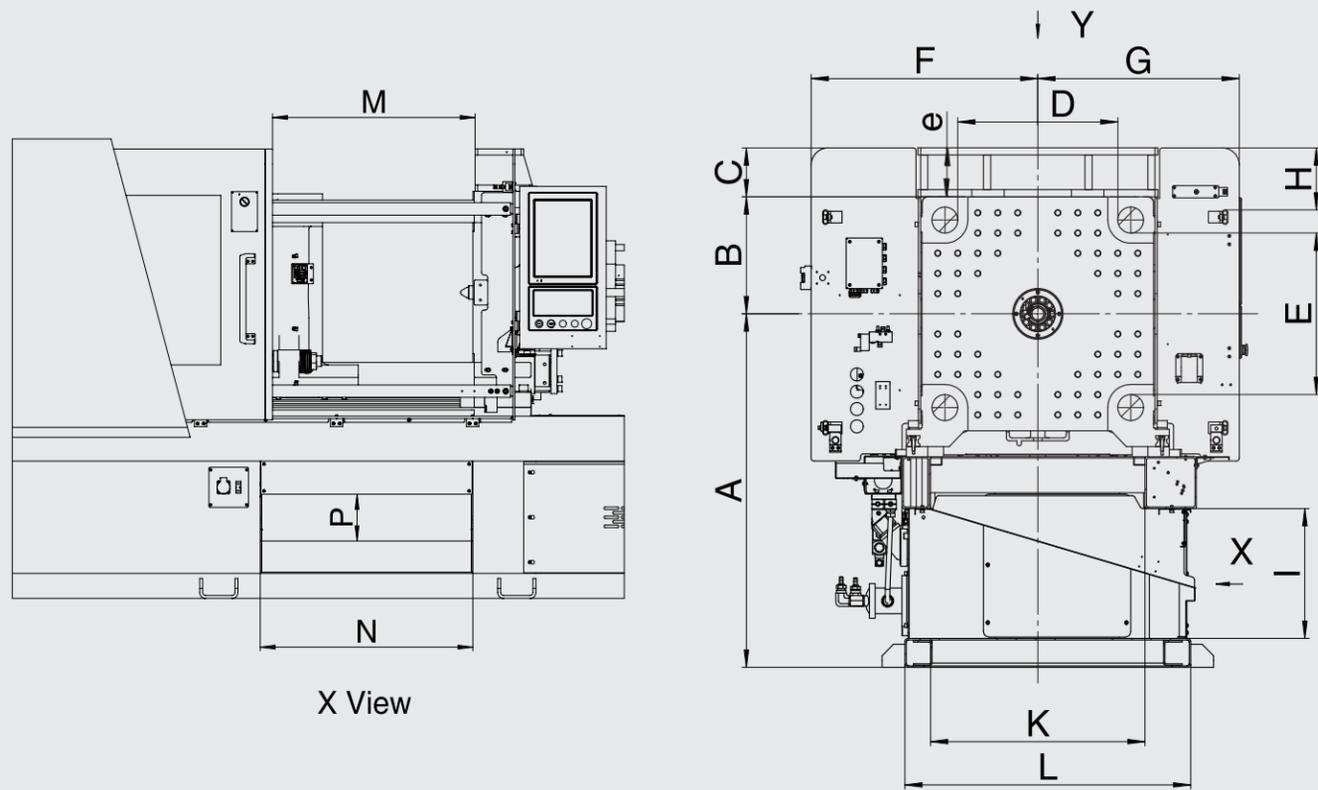
STANDARD AND OPTIONAL FEATURES		
CLAMPING UNIT	STANDARD	OPTION
Automatic mould height adjustment	●	
Euomap 2 platen design	●	
Euomap 13 for core and ejector	●	
Euomap 18 for robot mounting	●	
Euomap 67 for robot communication	●	
Euomap 70 and 70.1 magnetic platen electrical interface		○
Larger maximum mould height		○
Addition of mechanical safety lock		○
Addition of photo sensor to product chute	●	
Power guard with safety bumper sensor		○
Addition of safety light curtain to front door		○
Automatic lubrication on toggle	●	
Automatic lubrication on mold height adjust	●	
Manual lubrication pump on mold height adjust		○
Anti-skid plates on walk way inside moulding area		○
X* core pullers on moving platen	1	
X* airblows (1*FP, 1*MP)	1×FP 1×MP	
Additional corepullers		○
Additional airblow		○
Oil-less bushings for toggle system	●	
Parallel core movement	●	
Ejection-on-fly	●	
Automatic electric front door		○
Automatic clamping force control		○
INJECTION UNIT		
Ceramic heater bands	●	
Nitrited screw and barrel		○
Bi-metallic screw and barrel		○
Barrel shut-off nozzle		○
Linear transducer on injection carriage	●	
Screw speed indicator	●	

All technical data and features are subject to change without prior notice.

STANDARD AND OPTIONAL FEATURES		
INJECTION UNIT	STANDARD	OPTION
Automatic injection lubrication	●	
Manual lubrication pump for injection unit		○
Parallel plasticizing	●	
Movable hopper stand	●	
Hopper		○
Injection pressure display	●	
Barrel cooling ring temperature control	●	
Automatic PID temperature control	●	
Barrel insulation jacket		○
Digital back pressure control	●	
Broken thermocouple detection alarm		○
Blocked nozzle and overflow detection	●	
Hydraulic/pneumatic sequential injection		○
CONTROLLER	STANDARD	OPTION
CHE controller (15.6" display)	●	
High-precision mould safety	●	
Ethernet interface for teleservice via internet (hardware only)	●	
USB interface	●	
Euomap 67 interface	●	
Industry 4.0		○
OPC-UA		○
Free i/o configuration	●	
Integrated hotrunner system (software provision only)	●	
OTHERS		
Power sockets 3-phase 400V 32A	2	
Power sockets 3-phase 400V 16A		○
power sockets 1-phase 240V 32A	1	
power sockets 1-phase 240V 16A		○
Waterflow regulators (more available upon request)		○
J-type thermocouple	●	

# SPARK EH Euroseries

## Robot Installation Dimensions Diagrams



MODEL	A	B	C	D	E	F	G	H	I	K	L	M	N	P	a	b	c	c1	d	d1	e	g	h	a1	a2	b1	b2
EH 100	1170	300	170	460	410	670	594	215	510	630	865	710	610	170	27.5	135	250	/	M16x32	M16x32	170	136	620	34	104	175	280
EH 120	1170	300	170	460	410	670	594	215	510	630	865	710	610	170	27.5	135	250	/	M16x32	M16x32	170	136	620	34	104	175	280
EH 150	1145	300	170	510	460	730	658	215	450	710	945	800	690	140	27.5	175	380	/	M16x40	M16x32	170	136	620	34	104	175	280
EH 180	1225	405	170	560	560	793	705	215	450	750	1000	810	860	145	25	190	475	/	M16x40	M16x40	170	196	840	35	175	210	350
EH 230	1300	440	170	610	610	841	745	215	440	845	1095	970	915	140	30	245	560	/	M16x40	M16x40	170	196	840	35	175	210	350
EH 300	1390	530	160	730	730	952	818	223	295	1006	1254	1300	1120	295	40	245	700	960	M16x40	M16x40	160	206	1050	35	175	350	490
EH 360	1395	608	160	830	830	1030	976	163	215	970	1218	1335	1200	215	90	140	780	/	M16x40	M16x40	160	206	1190	35	175	350	490
EH 450	1500	675	225	920	920	1065	935	298	290	1139	1433	1550	1200	290	85	140	910	/	M16x40	M16x40	225	240	1350	35	175	420	560
EH 550	1300	675	225	920	920	1065	935	127	/	/	1348	1568	/	/	85	140	910	/	M16x40	M16x40	225	240	1350	35	175	420	560

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