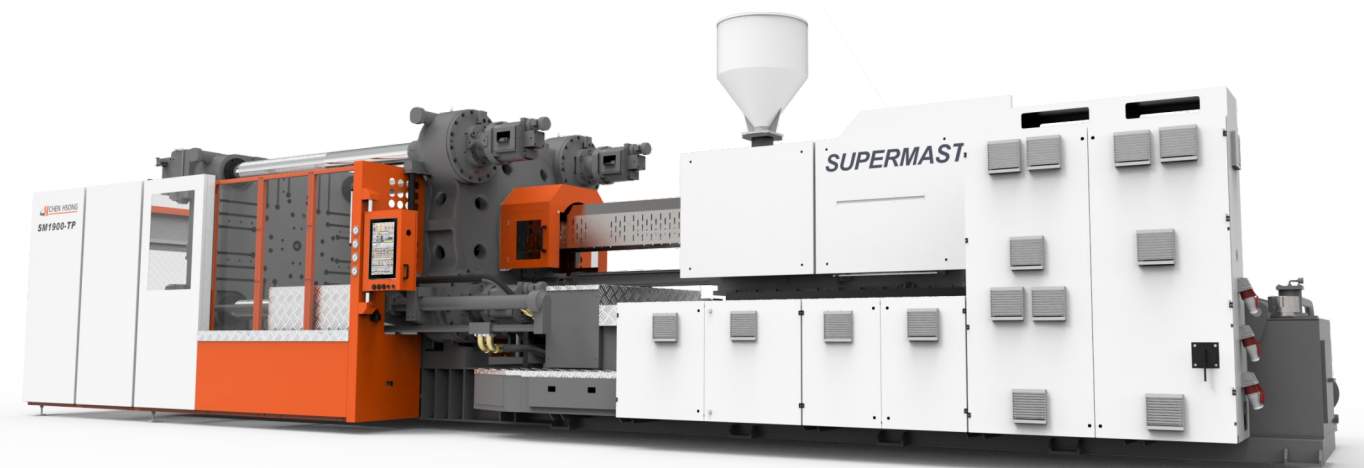


# TP

## Euroseries

### Datasheet



[chenhsong.com](http://chenhsong.com)  
[chenhsong.eu](http://chenhsong.eu)

## About Chen Hsong

Chen Hsong, established in 1958, is one of the largest manufacturers of injection moulding machines in the world, with annual sales exceeding 20,000 sets.

For over 65 years, Chen Hsong sold to more than 85 countries across the globe, supplying injection moulding machines with clamping force from 20 tons to 6,500 tons. In 1991, Chen Hsong became listed on the Hong Kong Stock Exchange (stock code: 00057). Headquartered in Hong Kong, Chen Hsong operates numerous manufacturing and research facilities in China, including Shenzhen, Shunde, Ningbo and Taiwan, as well as in Japan.

Since 2011 when Chen Hsong and Mitsubishi Plastics Technology of Japan entered into a worldwide strategic partnership, Chen Hsong has been progressively upgrading its internal management, production and quality systems with industry best practices, including TPS (lean manufacturing), M-System (Mitsubishi quality system) and a Japanese “perfect quality” focus towards all R&D, procurement and production activities. For over a decade since then, and leveraging its superior supply chain and production capabilities, Chen Hsong also supplied Mitsubishi, as OEM, with world-renowned “MMX” large-tonnage two-platen injection moulding machines (up to 3,500 tons).

To provide customers with even better peace-of-mind, Chen Hsong insists on being the only fully vertically-integrated maker of injection moulding machines globally, starting from basic ductile iron casting to high-end fabrication and machining, and all major production steps until the completed assembly of each machine. Only through absolute control of each fine step of the manufacturing process would customers be best served with professionalism, quality and perfection.

**65<sup>+</sup>**  
Years of Excellence  
Since 1958

**200<sup>+</sup>**  
Patented technologies

**20<sup>+</sup>**  
Software IP

**20,000**  
Sets / year  
One of the largest producers of injection  
moulding machines in the world

Operates  
**800,000m<sup>2</sup>**  
Production facilities with global presence

Shenzhen



Taiwan



Shunde



Ningbo



## Chen Hsong in Europe

Chen Hsong Europe is headquartered in Germany, with a large stock of ready-to-ship machines and spare parts.

We welcome all enquiries and requests for demonstrations, mould 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 Germany as well as our global team of engineers.

Chen Hsong distributors not only sell machines, they also provide professional project advice, installation, training, maintenance, 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.

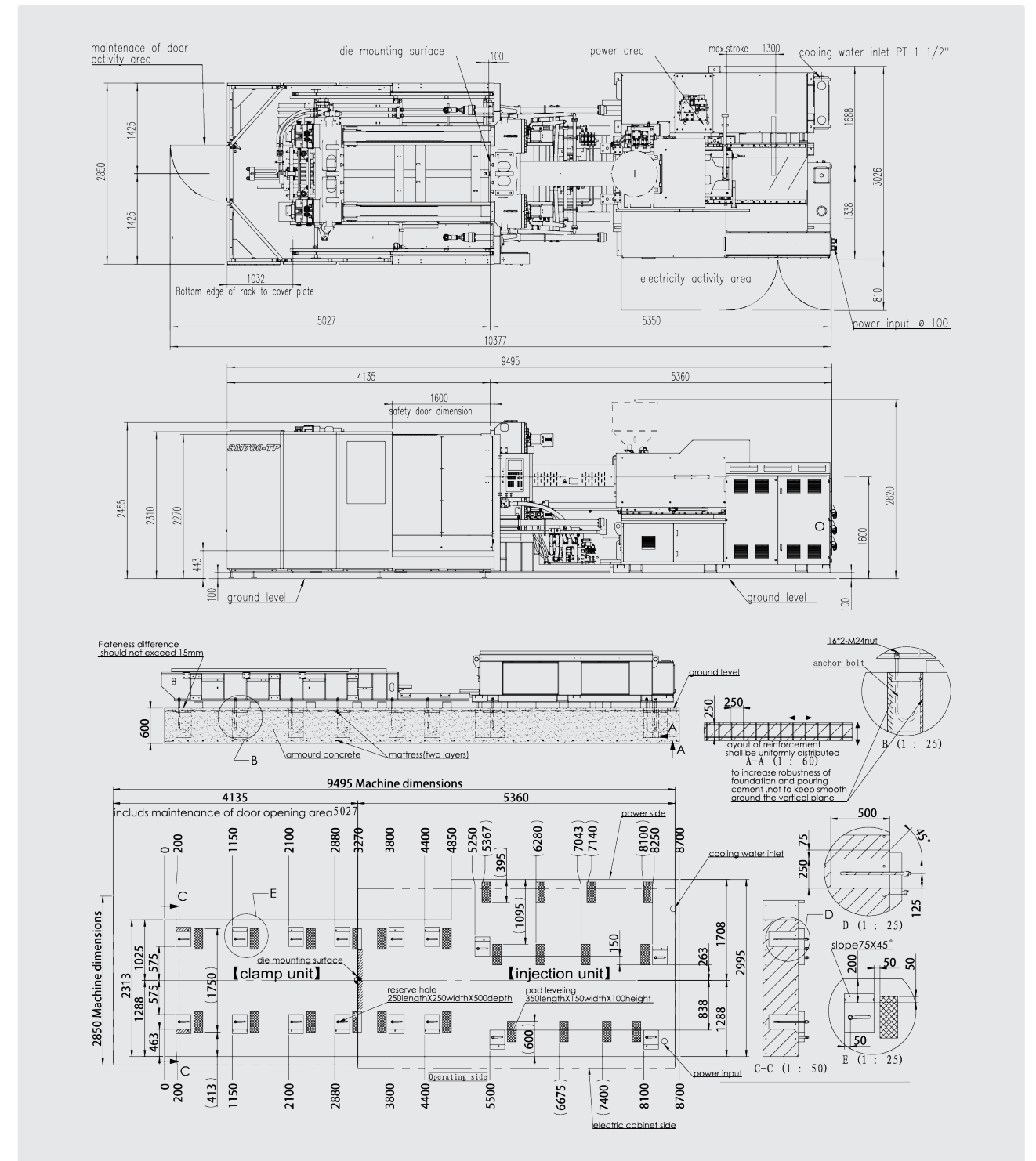
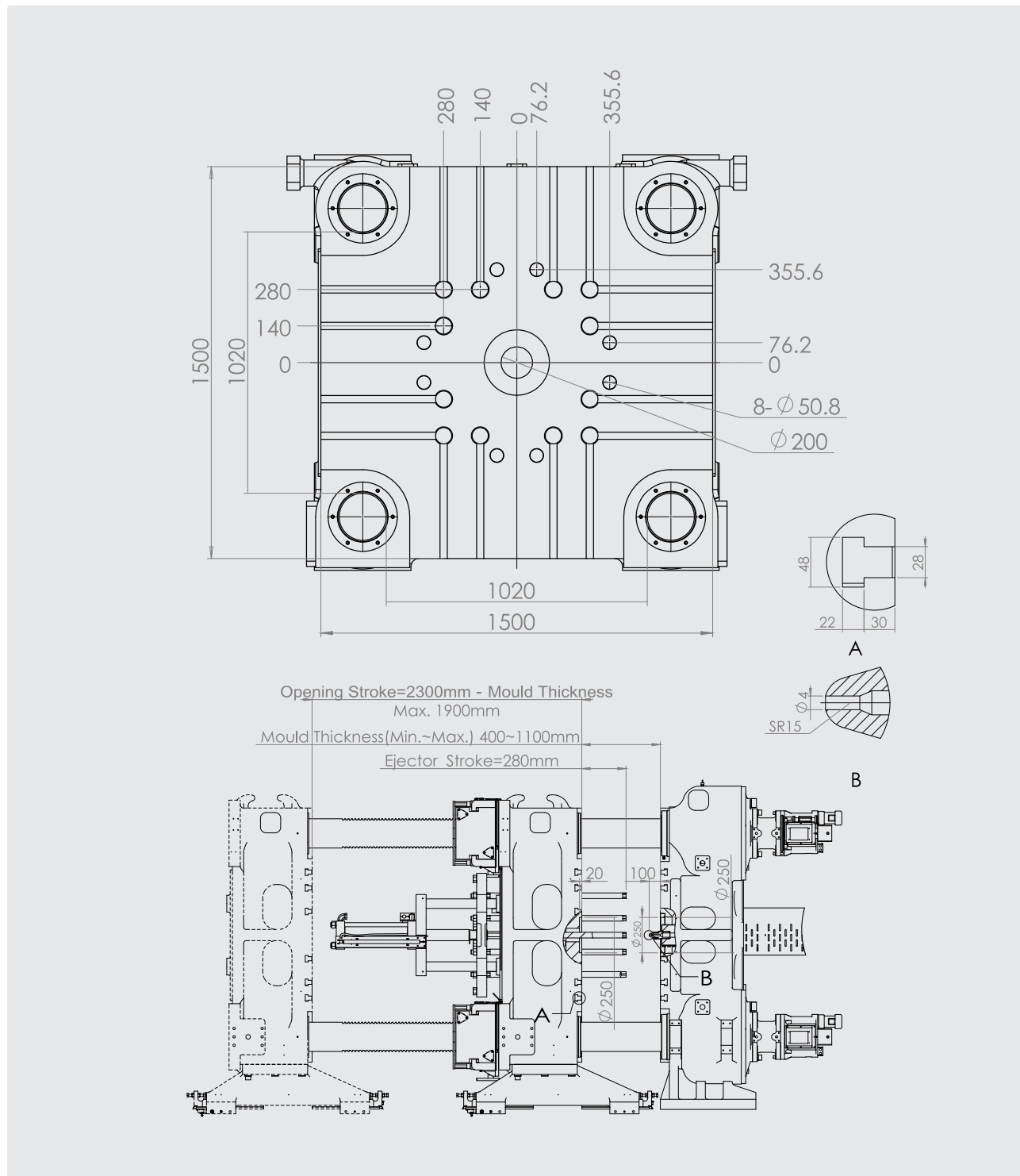


TP Euroseries

SPECIFICATIONS		UNIT	SM700-TP-SVP/2		SM850-TP-SVP/2		SM1050-TP-SVP/2		SM1250-TP-SVP/2		SM1450-TP-SVP/2		SM1650-TP-SVP/2		SM1900-TP-SVP/2		SM2200-TP-SVP/2		SM2600-TP-SVP/2		SM3000-TP-SVP/2		SM3600-TP-SVP/2		SM4500-TP-SVP/2		SM6500-TP-SVP/2	
INJECTION UNIT			J1	J2	K1	K2	N1	N2	P1	P2	Q1	Q2	A1	A2	R1	R2	R1	R2	B1	B2	C1	C2	D1	D2	E1	E2	G1	G2
Screw Diameter	mm	83	90	90	98	98	110	110	120	120	130	130	140	140	150	140	150	150	175	175	200	200	225	225	250	275	300	
Screw L/D	/	22	20.3	22	22.2	22	19.6	22	20.2	22	20.3	22	20.4	22	20.5	22	20.5	22	18.9	22	19.3	22	19.6	22	19.8	22	20.2	
Injection Capacity (Theoretical)	cm³	2163	2543	2861	3393	3770	4749	5224	6217	6872	7960	8623	10001	10770	12364	10770	12364	14483	19713	23709	30144	34540	43715	49278	60838	89048	105975	
Injection Shot Weight (Max.)	g	1968	2314	2604	3087	3430	4322	4754	5658	6172	7244	7847	9101	9801	11251	9801	11251	13180	17939	21002	27431	31431	39780	44843	55362	81034	96437	
Injection Pressure (Max.)	MPa	187	159	184	155	184	146	184	155	184	157	180	155	180	157	180	157	180	132	160	123	160	126	160	130	160	134	
Injection Rate (Max.)	cm³/s	560	658	635	753	720	907	885	1053	1045	1226	1215	1409	1390	1596	1390	1596	1390	1892	1790	2339	2210	2797	2720	3358	4310	5129	
Injection Speed (Max.)	mm/s	92.1		99.9		95.5		93.6		92.7		68.5		90.6		78.8		74.5		70.4		68.5		62.1		72.6	70.3	
Injection Stroke (Max.)	mm	400		450		500		550		600		650		700		700		820		960		1100		1240		1500		
Screw RPM (Max.)	rpm	150		140		130		115		110		100		95		95		95	80	83	69	65	50	60	50	50	40	
Nozzle Contact Force (Max.)	kN	132		132		132		132		132		132		132		132		132		132		132		132		132		
Nozzle Stroke (Max.)	mm	1000		900		900		1200		1200		1200		1300		1300		1400		1500		1600		1750		2000		
CLAMPING UNIT																												
Clamping Force (Max.)	kN	7000		8500		10500		12500		14500		16500		19000		22000		26000		30000		36000		45000		65000		
Clamp Opening Force (Max.)	kN	700		850		850		1250		1250		1650		1650		2100		2100		3000		3000		3000		4000		
Clamp Opening Stroke (Max.)	mm	1200-1900		1250-2000		1300-2100		1500-2300		1650-2450		1700-2500		1700-2500		1600-2500		1900-2800		2100-3000		2200-3200		2300-3400		2700-3900		
Platen Dimensions (HxV)	mm	1500X1500		1680X1680		1800X1800		1950X1900		2000X2000		2160X2120		2300X2260		2400X2300		2700X2600		2800X2760		3000X2900		3300X3100		3900X3500		
Distance Between Tie Bars (HxV)	mm	1020X1020		1170X1170		1280X1280		1380X1280		1470X1370		1570X1470		1670X1550		1820X1520		1930X1730		2020X1820		2170X1920		2430X2100		2760X2400		
Mold Thickness (Min.-Max.)	mm	400-1100		450-1200		500-1300		500-1300		550-1350		600-1400		700-1500		700-1600		800-1700		900-1800		1000-2000		1100-2200		1300-2500		
Max. Daylight	mm	2300		2450		2600		2800		3000		3100		3200		3200		3600		3900		4200		4500		5200		
Ejector Force (Max.)	kN	220		220		220		220		350		350		450		450		450		450		550		550		800		
Ejector Stroke (Max.)	mm	280		300		350		400		400		400		450		450		500		500		550		550		650		
No. of Ejectors	PCS	16		20		24		24		24		24		28		28		28		20		20		20		20		
Locating Ring Diameter	mm	250		250		250		250		315		315		315		315		315		315		315		315		315		
Mold Closing Speed (Max.)	m/min	45		45		45		45		45		45		45		45		45		45		45		40		35		
Mold Opening Speed (Max.)	m/min	45		45		45		45		45		45		45		45		45		45		45		40		35		
OTHERS																												
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		17.5		17.5		
Motor Power (Rated)	kW	84		96		108		132		156		180		204		204		204		240		300		360		660		
Barrel Heating Power (Max.)	kW	38		42		48		50		70		80		95		95		100		130		175		220		330		
Temperature Control Zones	Zone	7		7		7		7		7		7		7		7		7		7		7		7		7		
Machine Dimensions (LxWxH)	m	9.4x2.9x2.54		9.3x3.2x2.6		9.6x3.3x2.8		11.2x3.5x3		12.2x3.8x3.1		12.3x3.8x3.4		13x4.2x3.6		13x4.2x3.5		13.6x4.5x3.8		15.2x5x3.9		16.5x5.3x4.1		19.8x6x4.5		22.9x6.4x5		
Oil Tank Capacity	L	990		1020		1040		1760		1970		2010		2440		2450		2550		3520		4650		5420		11650		
Machine Weight	kg	28000		34000		42000		54000		61000		68000		79000		84000		105000		132000		165000		210000		350000		

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

# SM700-TP Euroseries

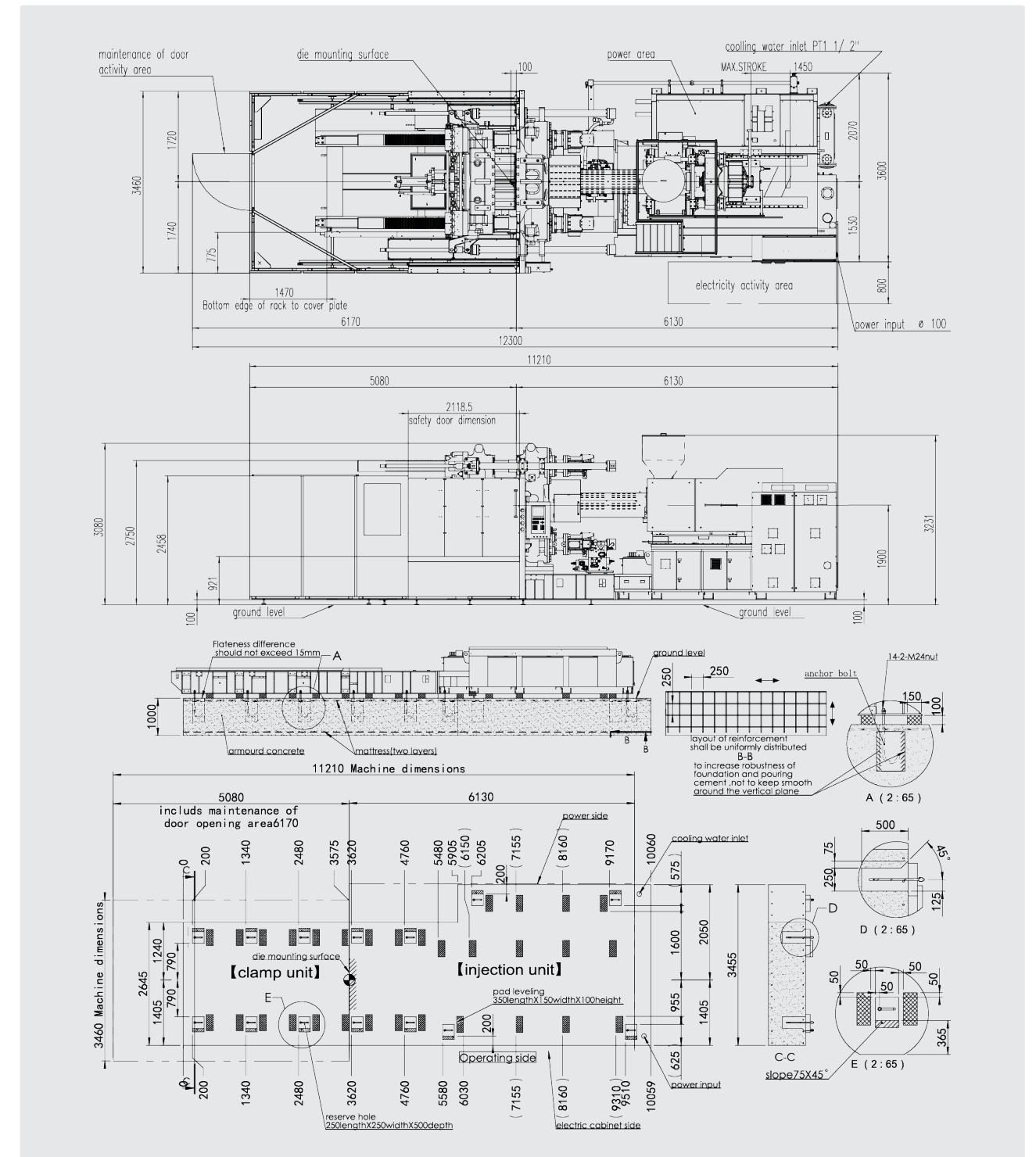
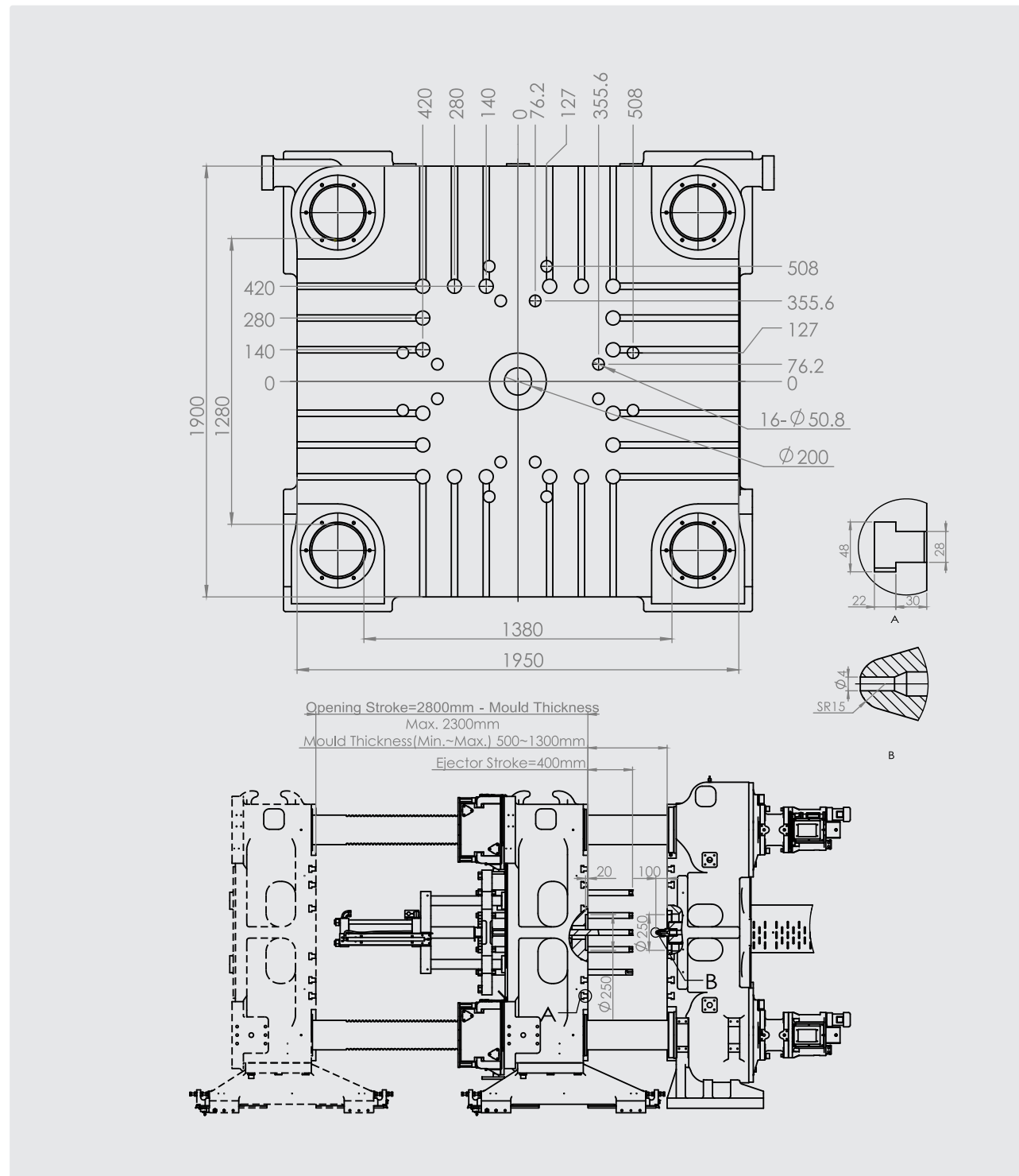




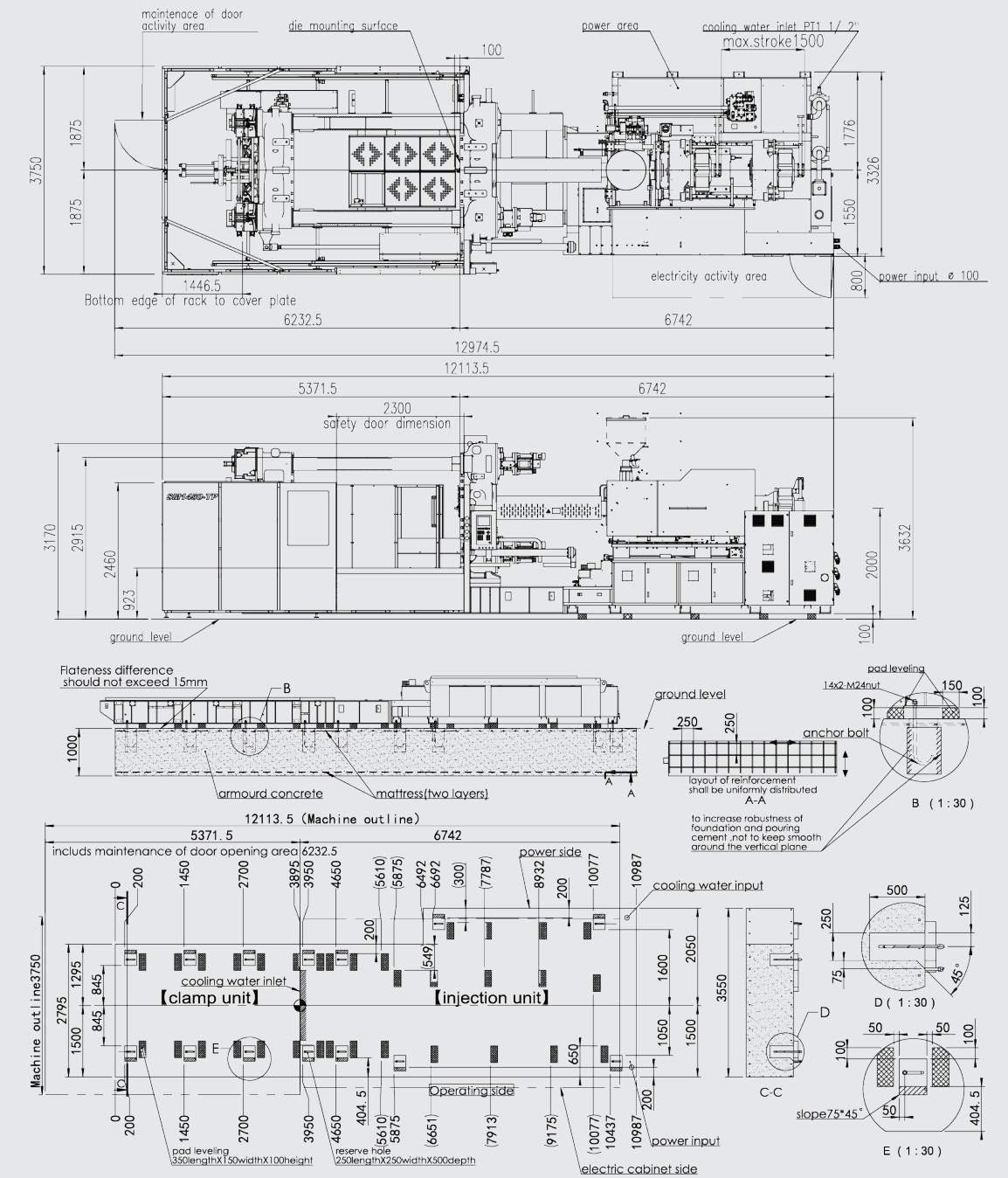
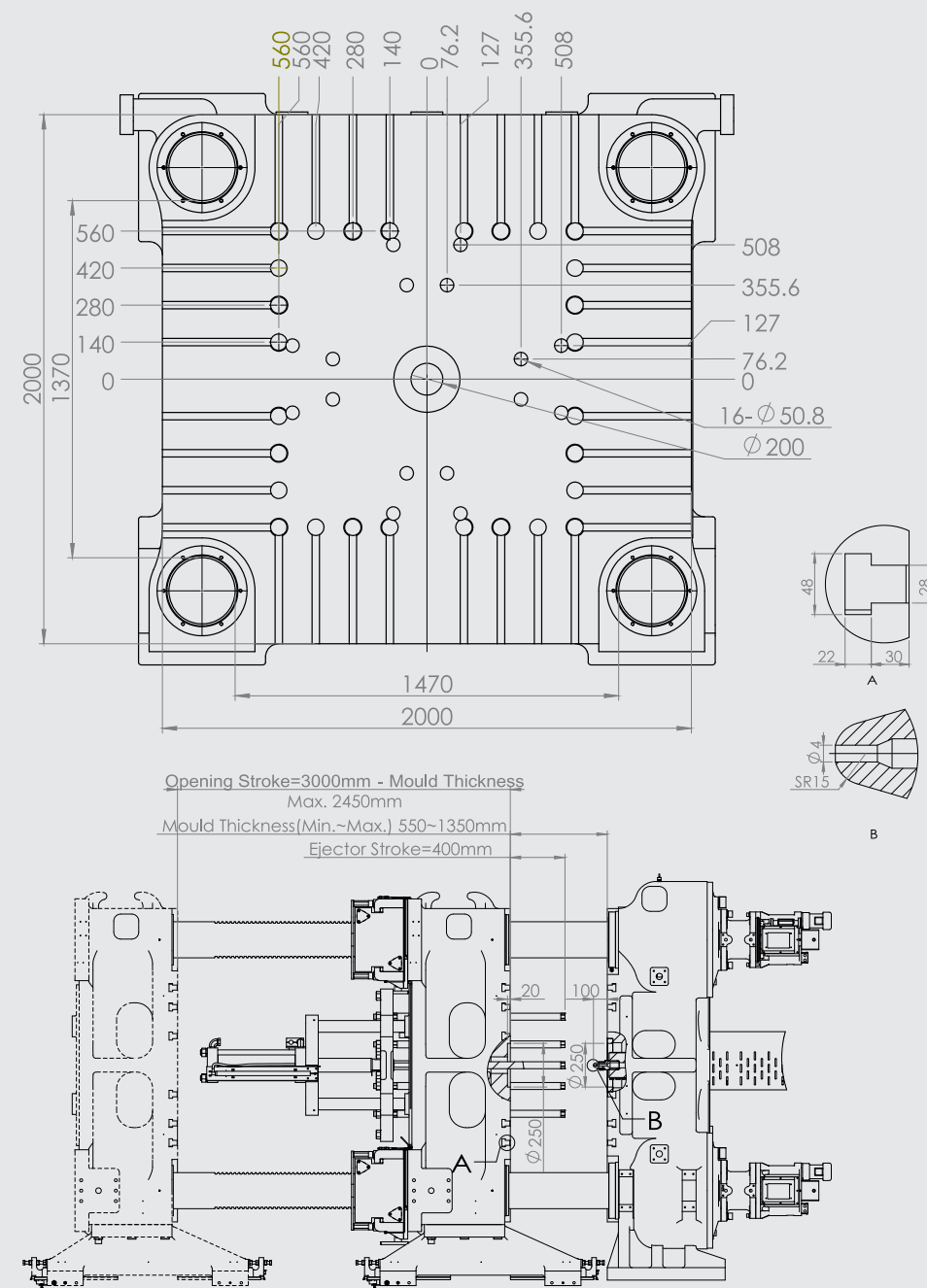




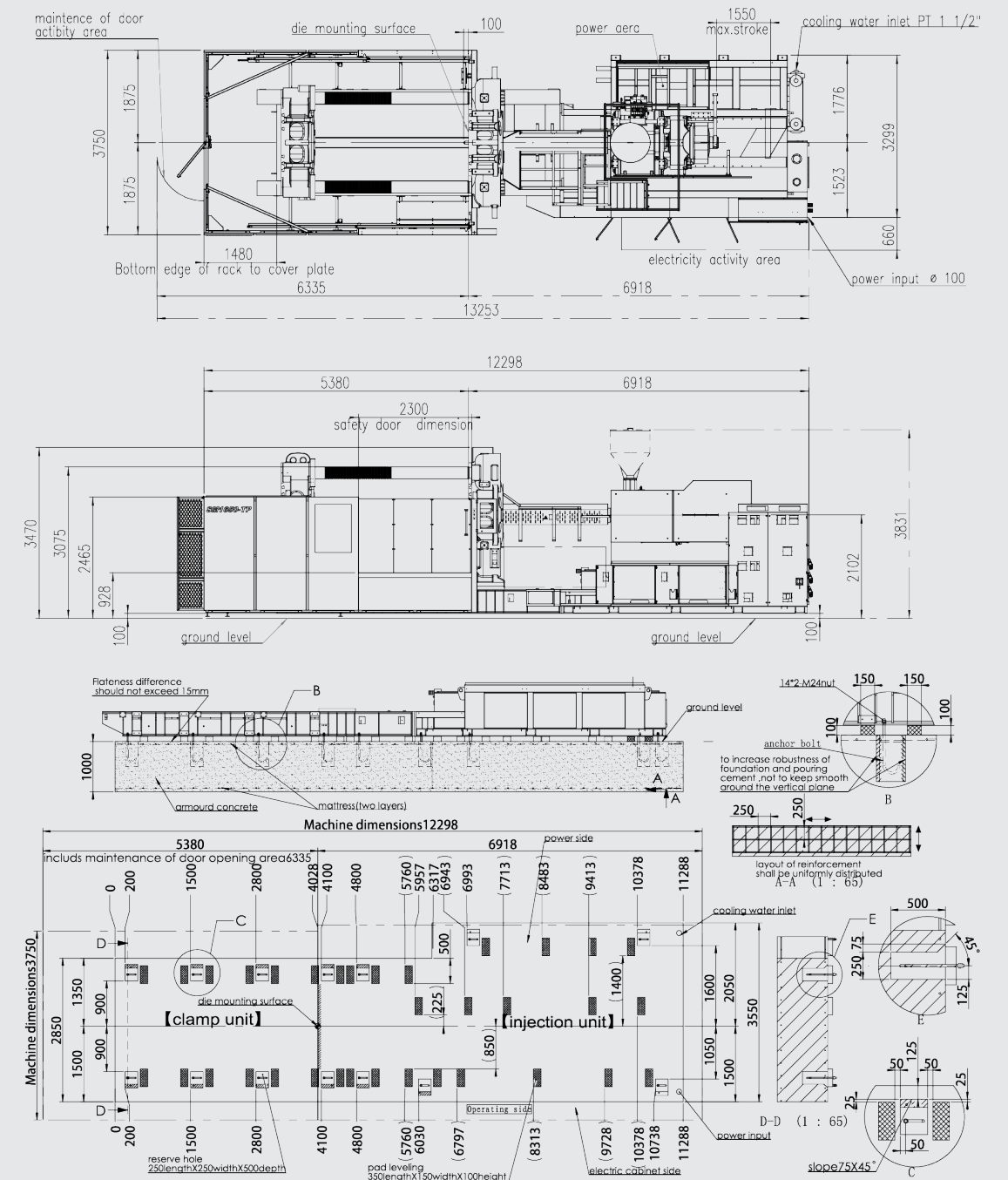
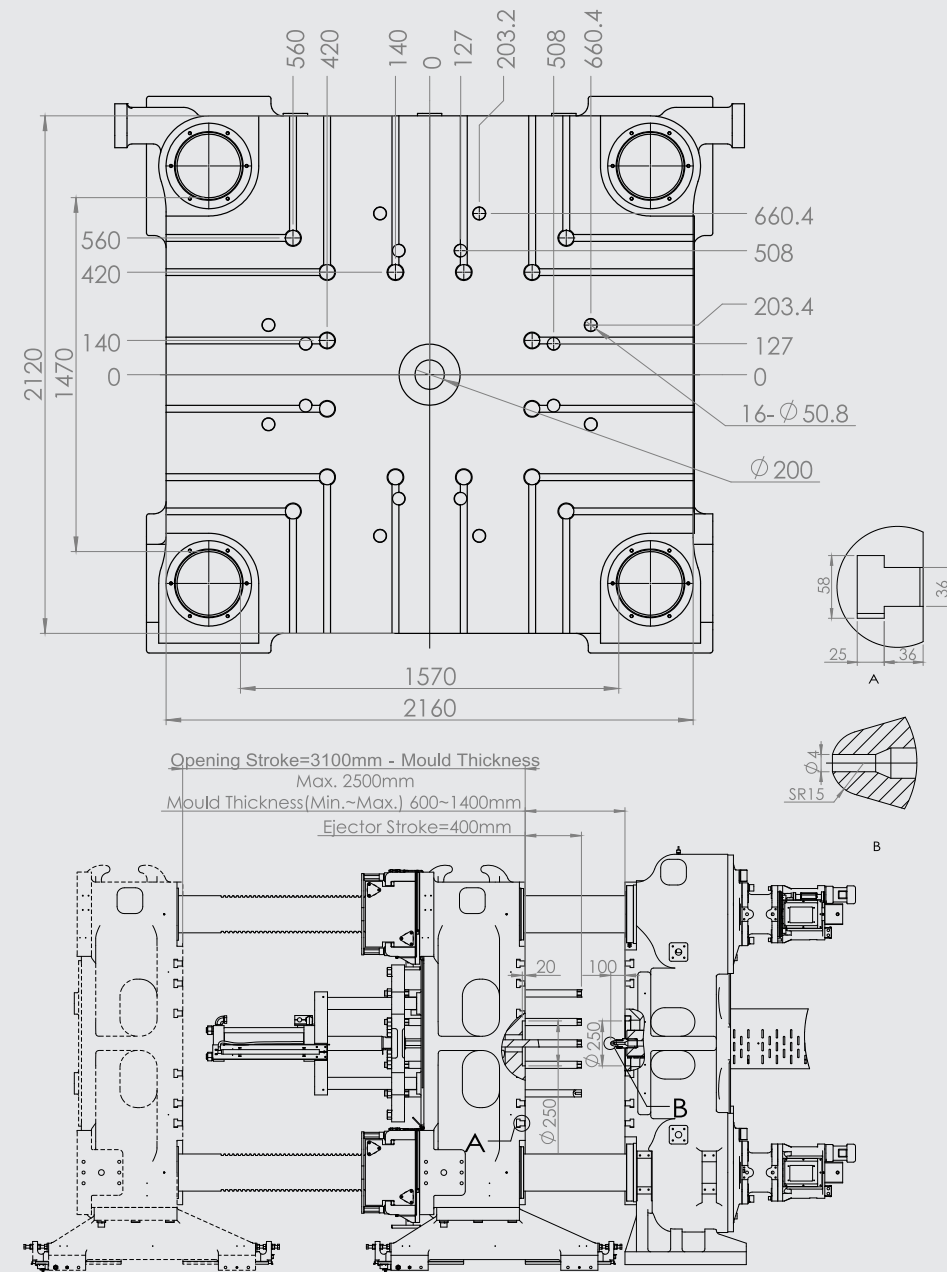
# SM1250-TP Euroseries



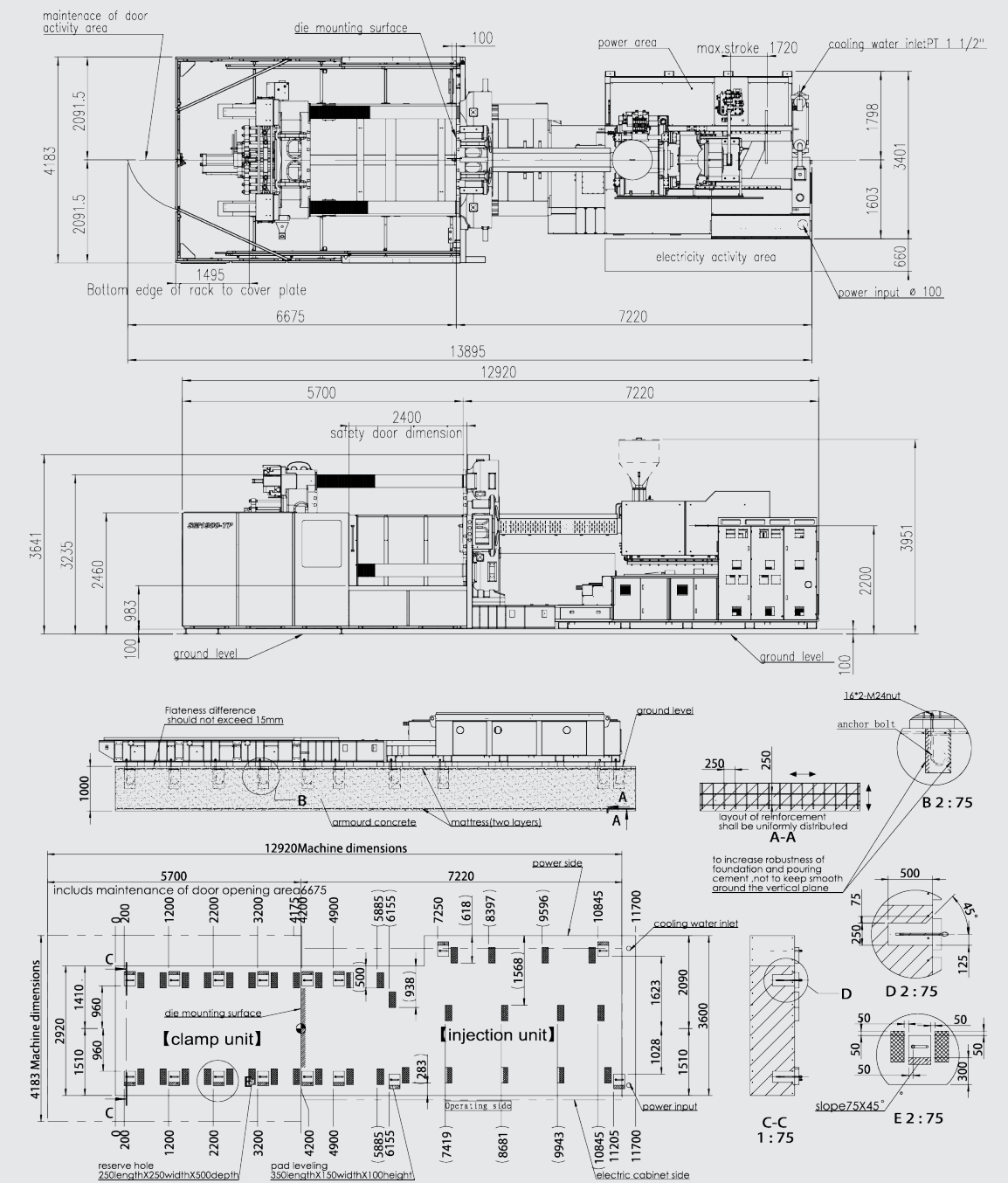
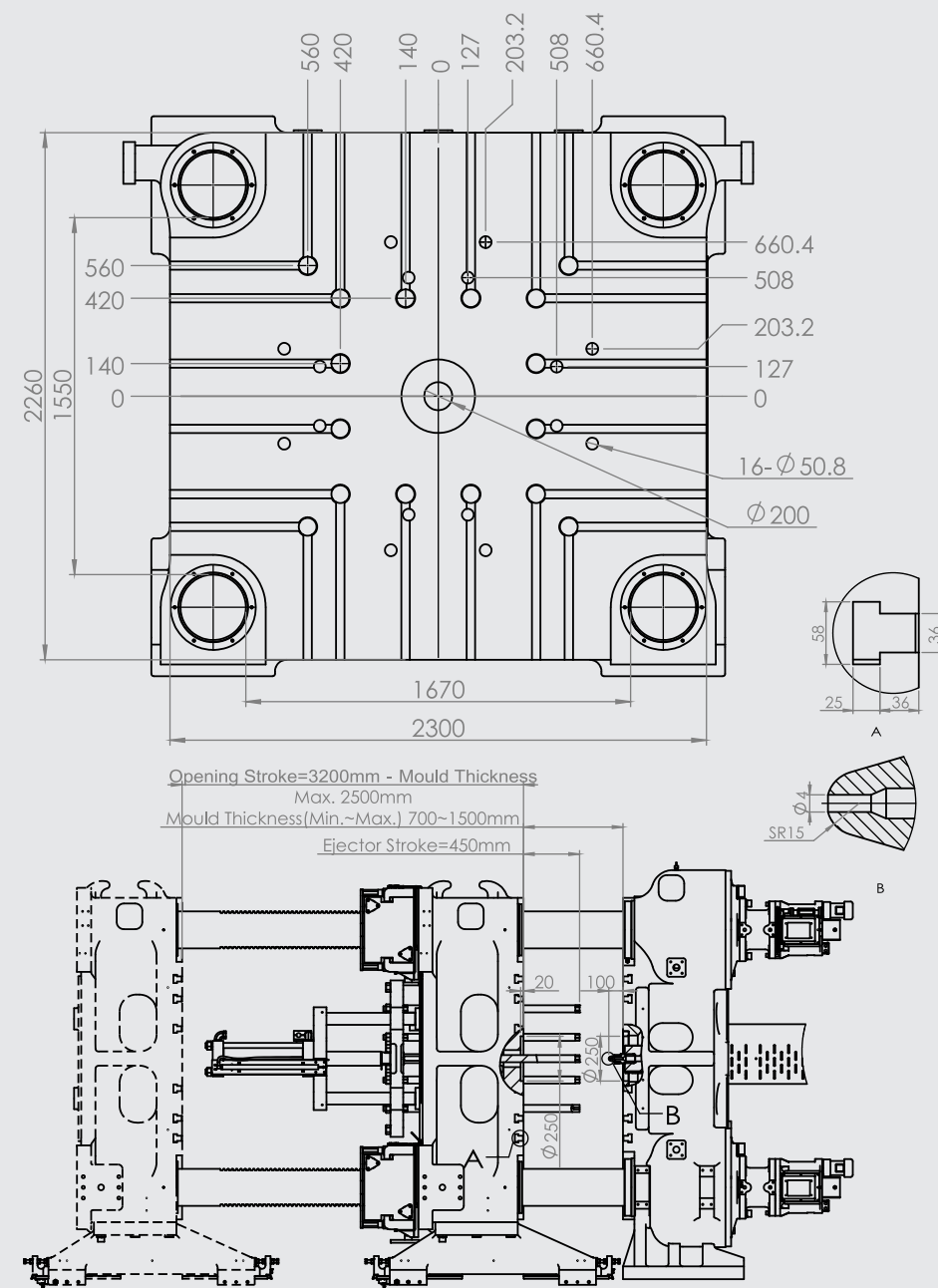
# SM1450-TP Euroseries



# SM1650-TP Euroseries

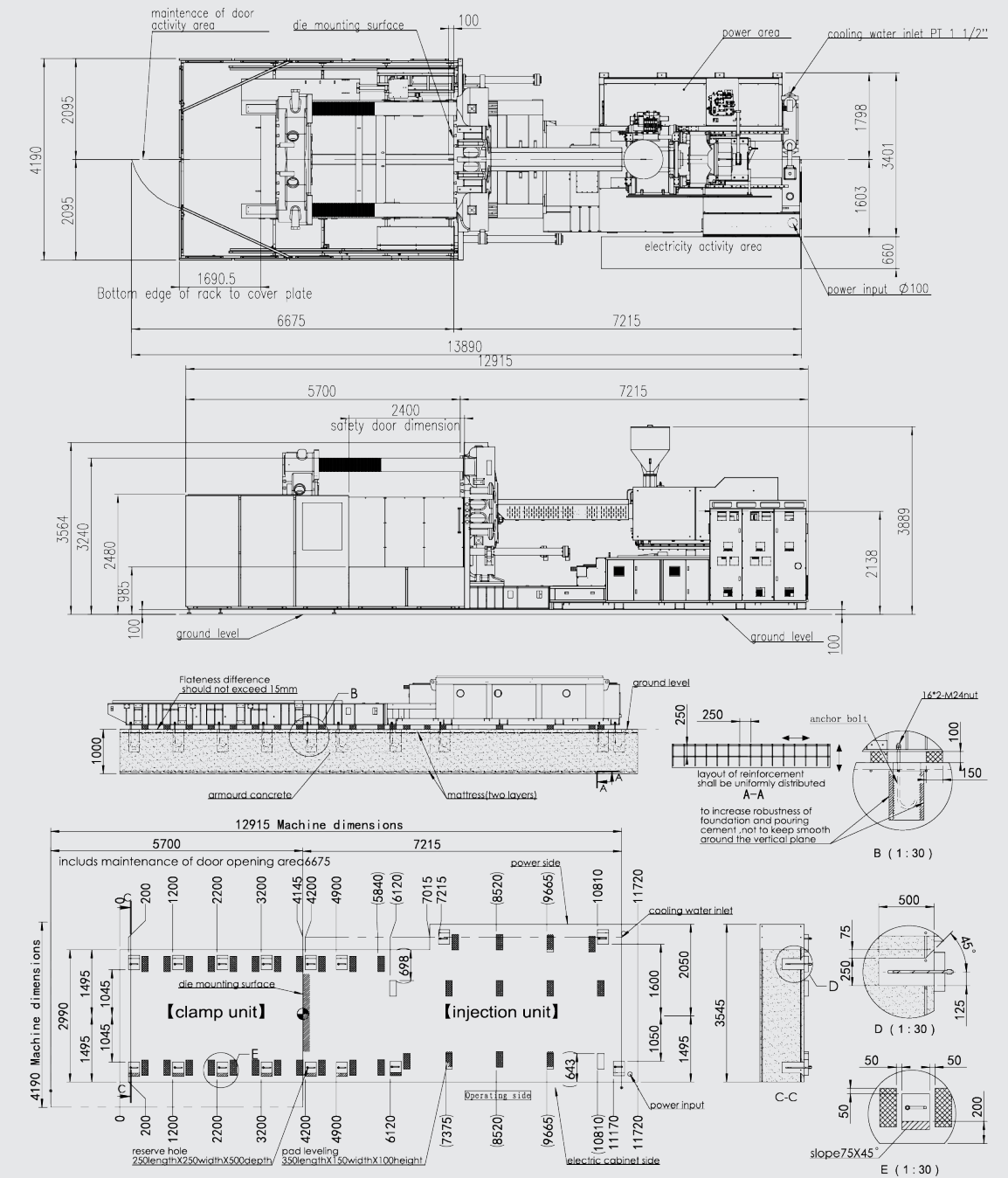
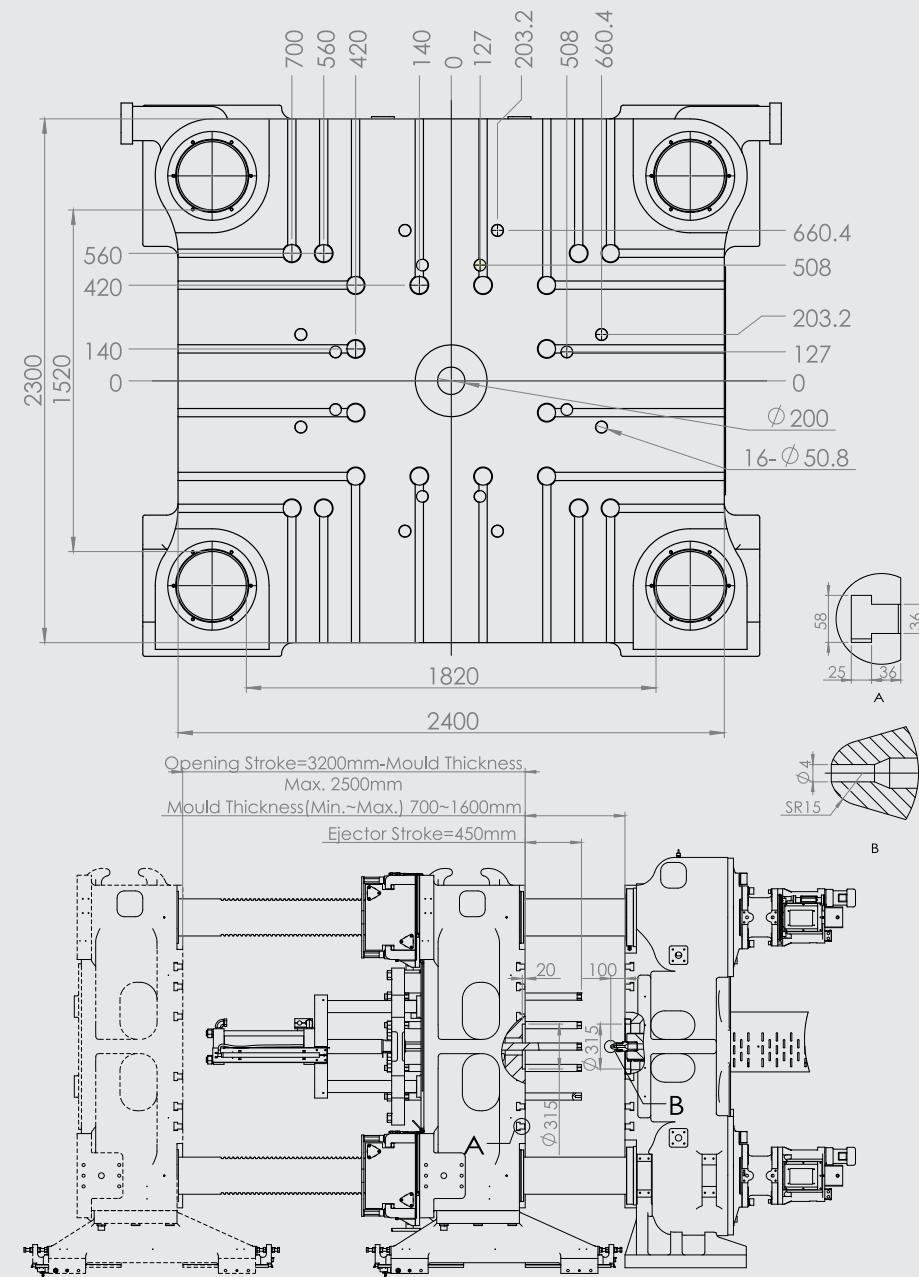


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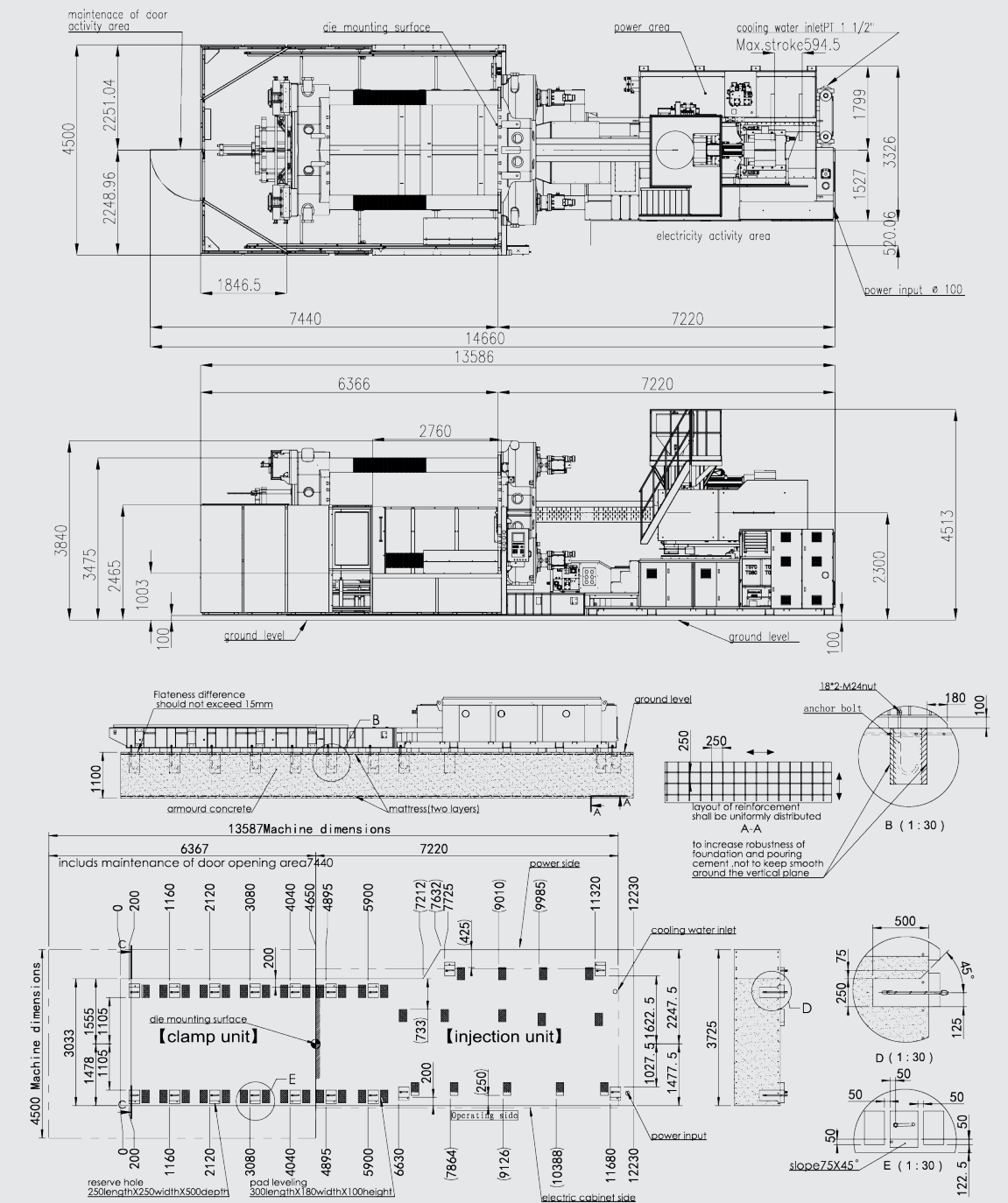
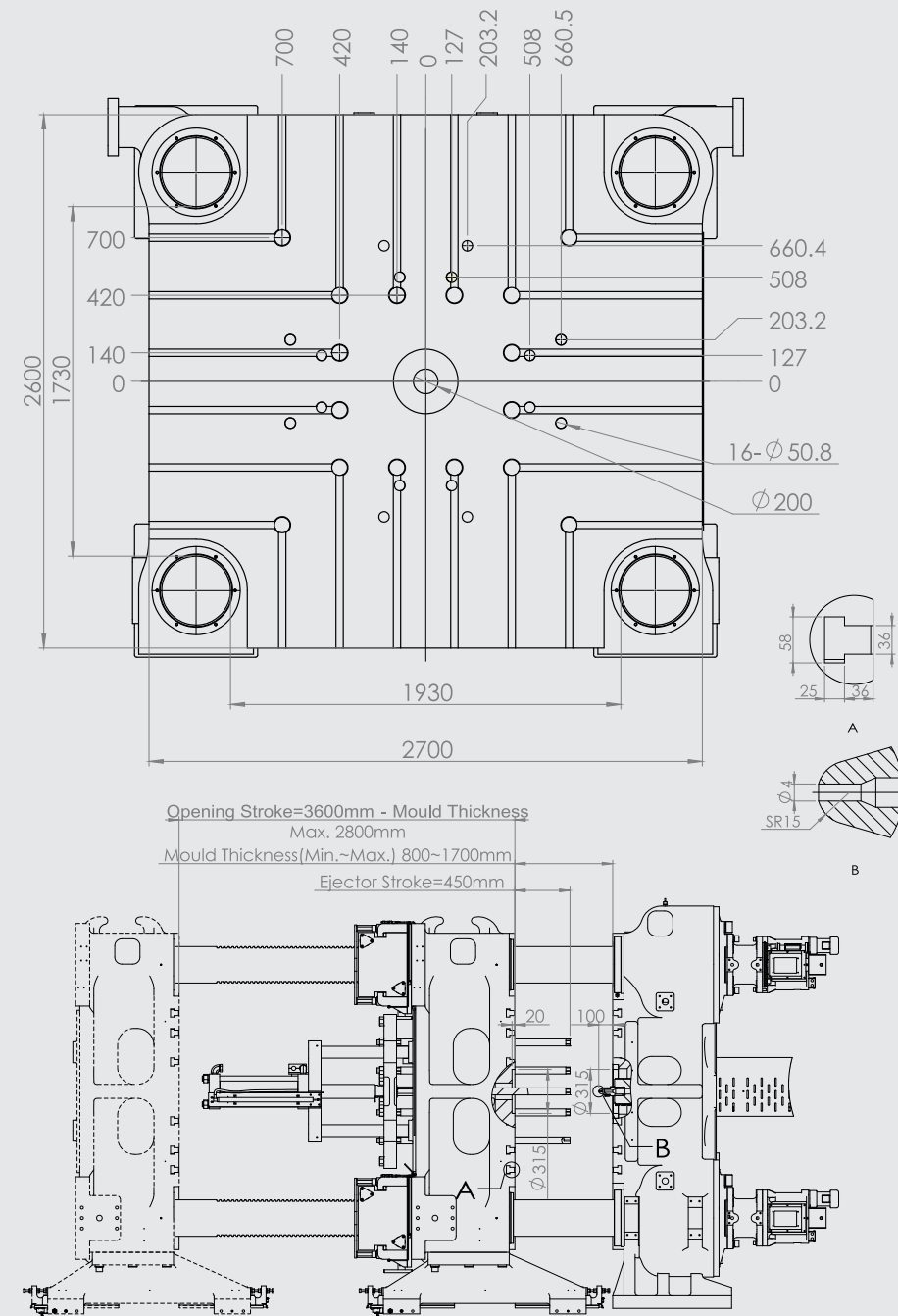




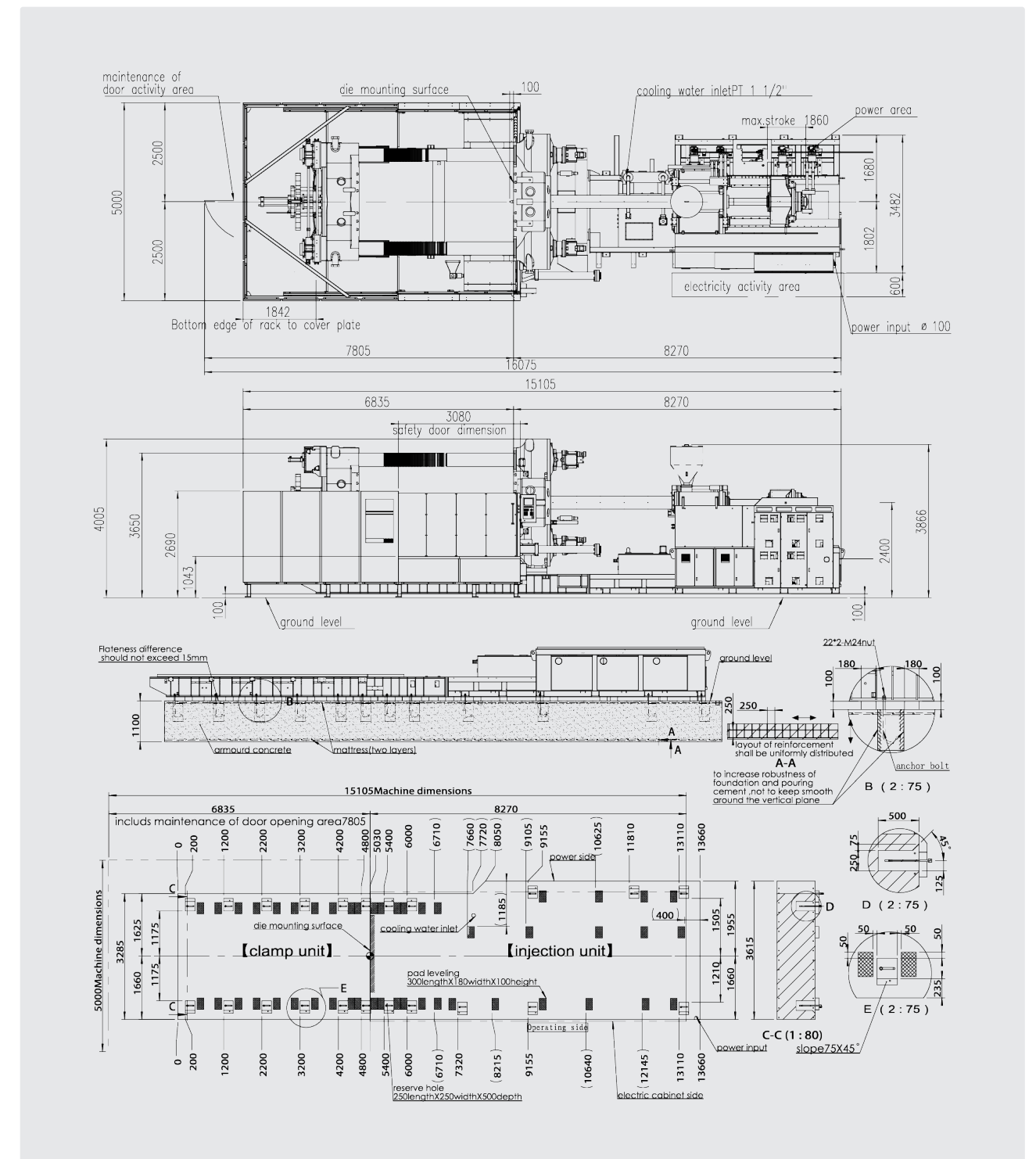
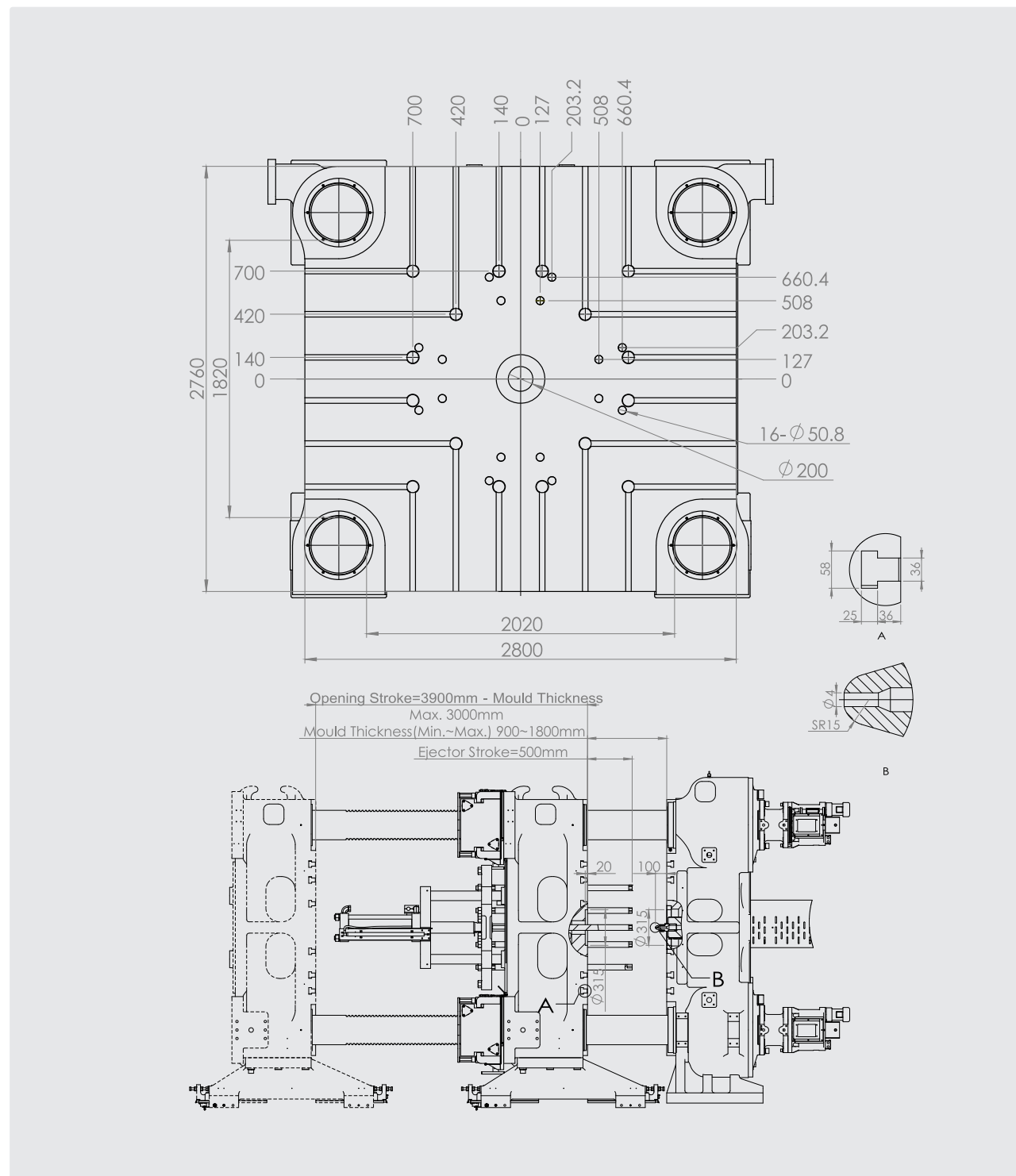
## SM2200-TP Euroseries



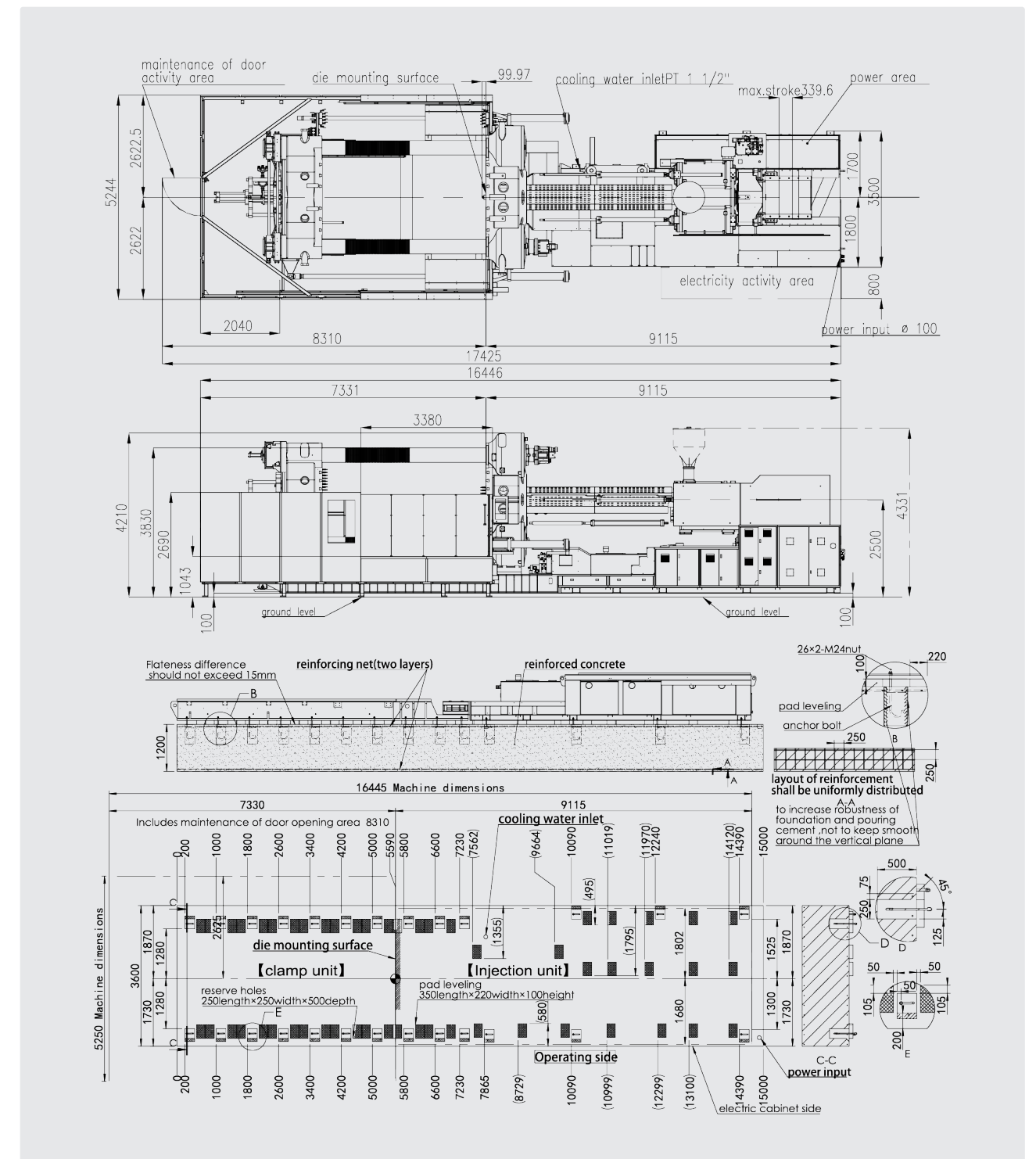
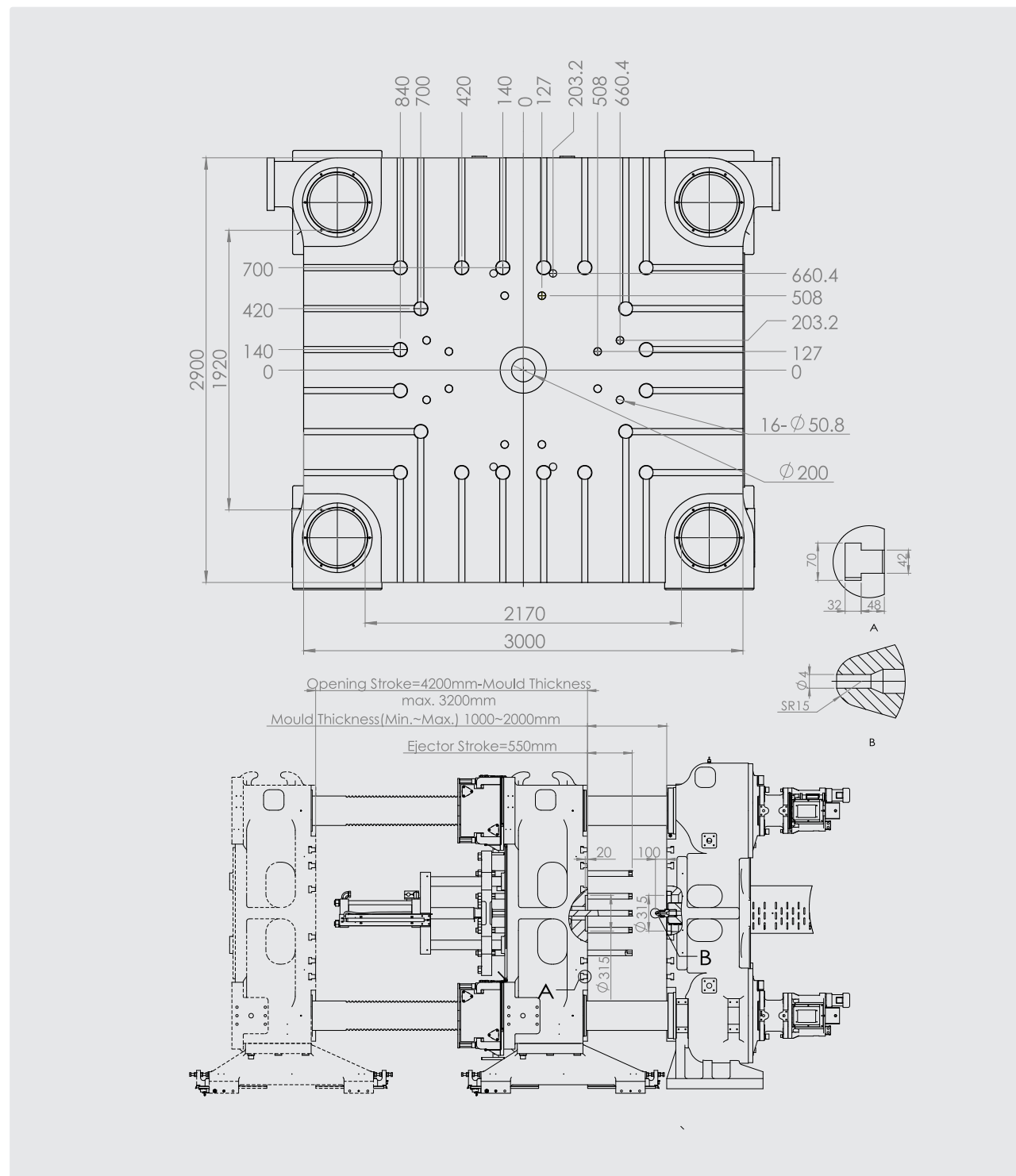
# SM2600-TP Euroseries



# SM3000-TP Euroseries

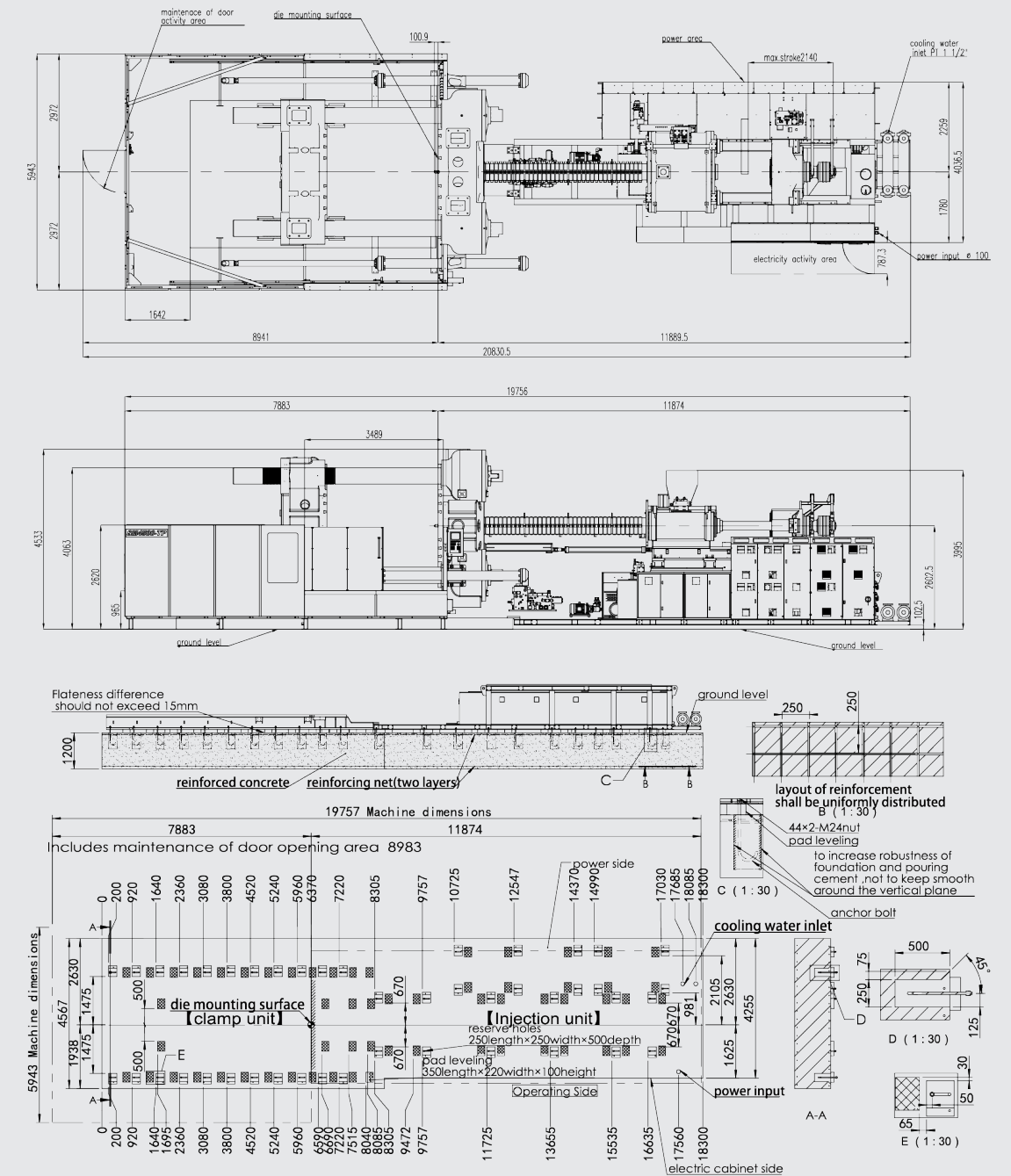
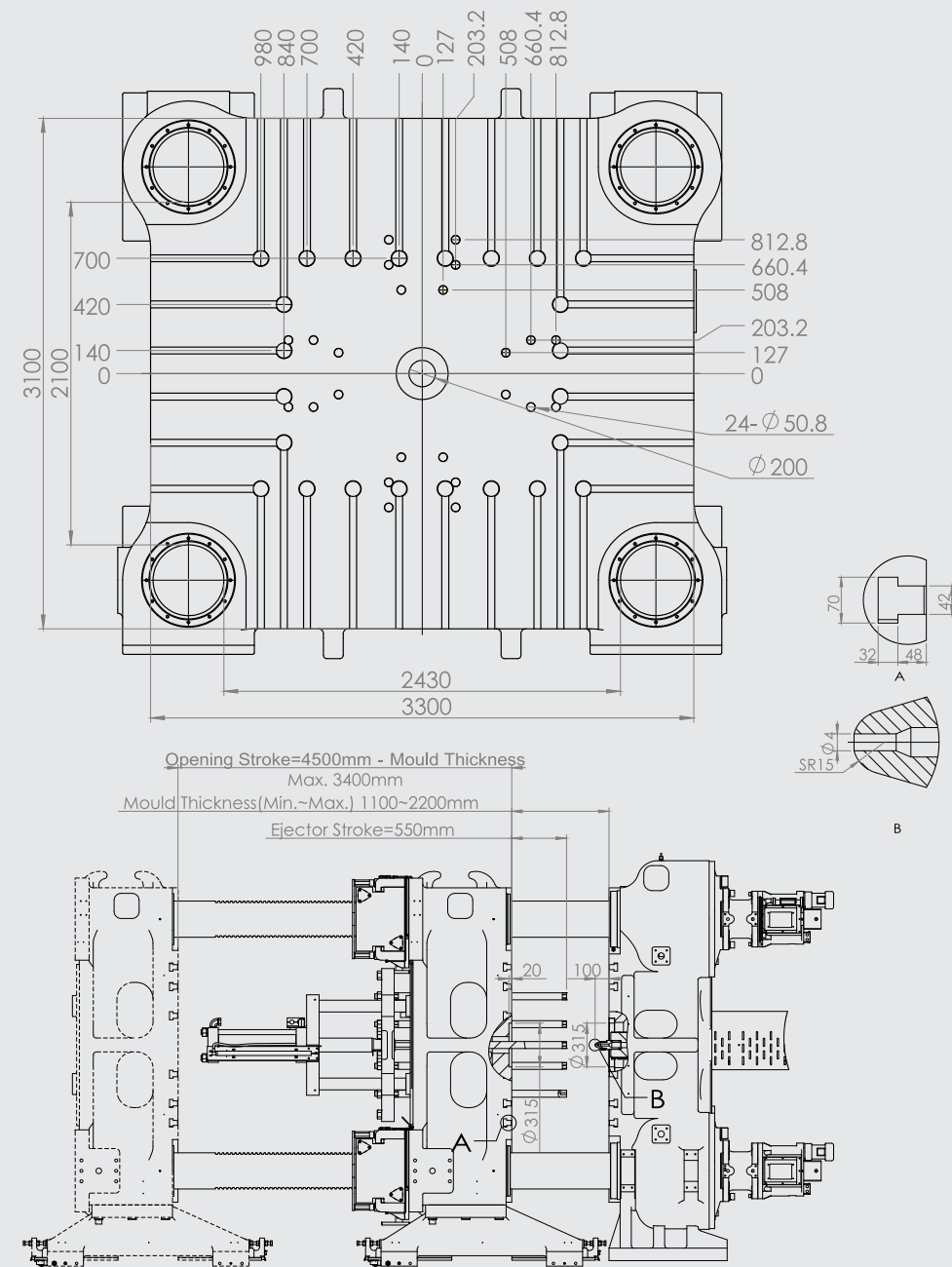


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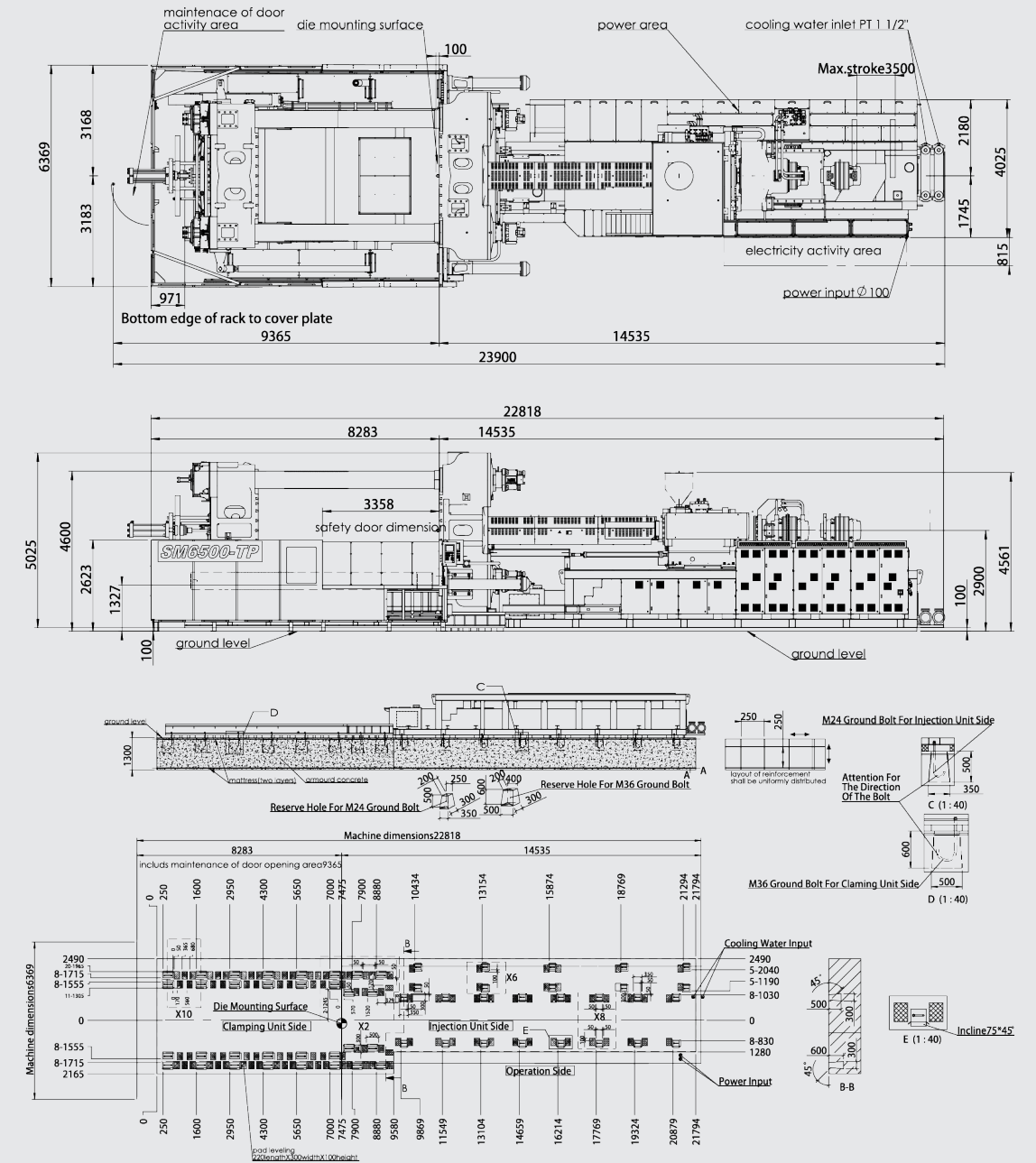
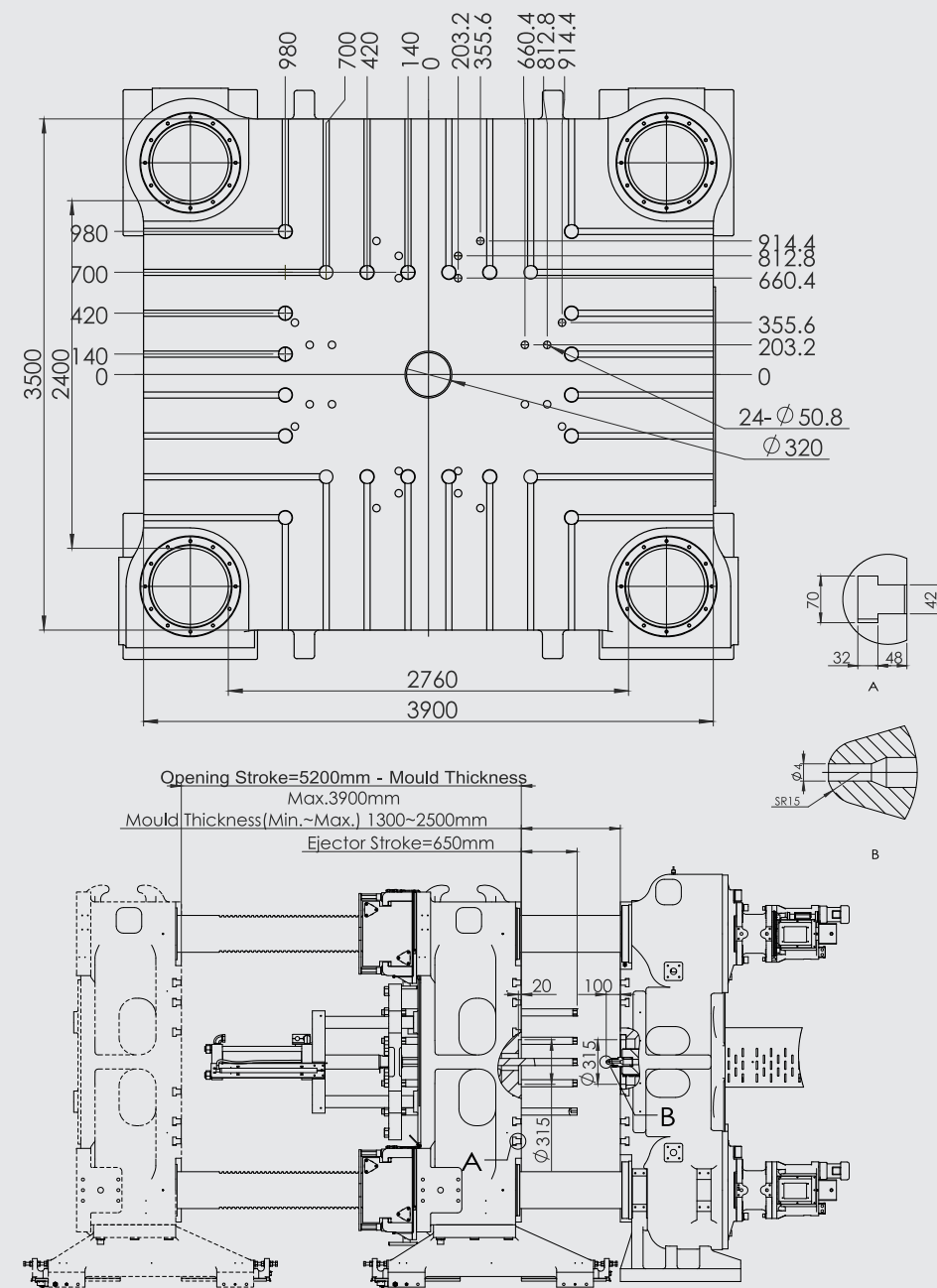




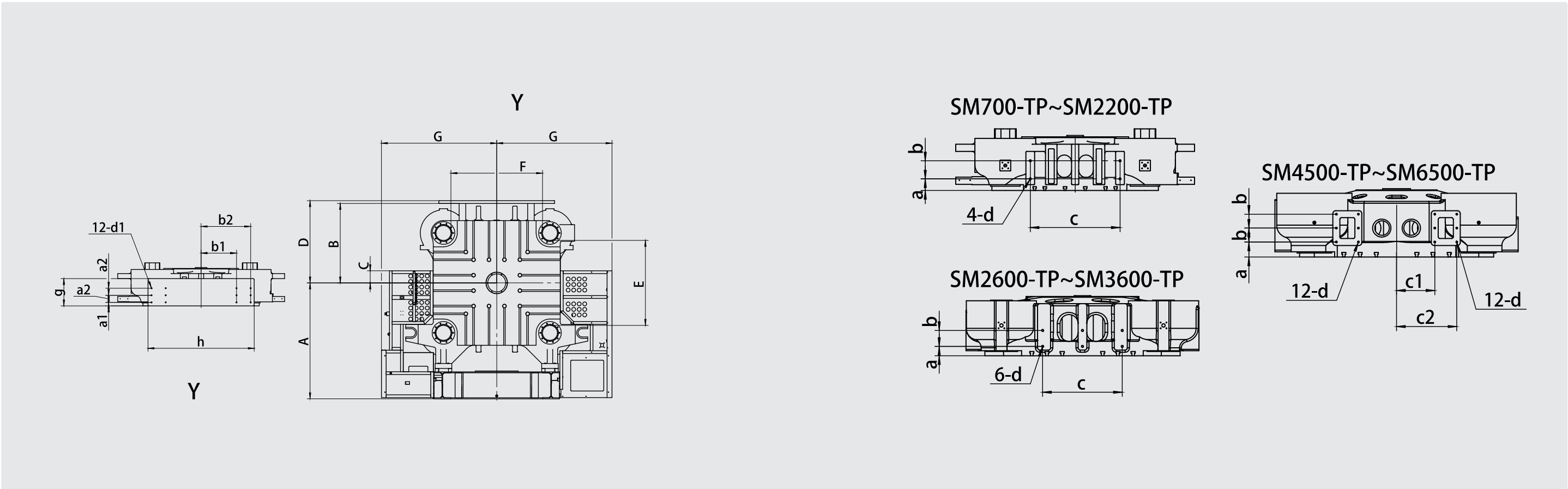
# SM4500-TP Euroseries



# SM6500-TP Euroseries



Robot installation Dimension diagram



MODEL	A	B	C	D	E	F	G	a	b	c	d	g	h	a1	a2	b1	b2	c1	c2	d1
SM700-TP	1500	760	670	1016	1020	1020	1420	120	200	600	M30x60	350	1350	70	105	420	630	/	/	M24
SM850-TP	1600	1000	570	1050	1170	1170	1595	120	200	600	M30x60	350	1500	70	105	560	700	/	/	M24
SM1050-TP	1700	1100	470	1150	1280	1280	1655	120	200	600	M30x60	420	1800	70	140	560	840	/	/	M24
SM1250-TP	1800	960	520	1266	1280	1380	1730	160	250	800	M30x60	420	1800	70	140	560	840	/	/	M24
SM1450-TP	1900	1310	420	1360	1370	1470	1875	160	250	840	M30x60	450	1940	50	140	560	840	/	/	M24
SM1650-TP	2000	1370	325	1420	1470	1570	1875	140	280	1180	M30x60	480	1940	50	140	560	840	/	/	M24
SM1900-TP	2100	1441	220	1491	1540	1660	2090	160	250	1240	M30x60	540	2100	70	140	700	980	/	/	M24
SM2200-TP	2100	1426	225	1530	1520	1820	2095	130	220	1240	M30x60	380	2400	50	140	840	1120	/	/	M24
SM2600-TP	2200	1520	125	1666	1730	1930	2250	130	220	1100	M30x60	380	2400	50	140	840	1120	/	/	M24
SM3000-TP	2300	1620	243	2060	1820	2020	2495	160	250	1100	M42x60	495	2700	70	140	980	1260	/	/	M24
SM3600-TP	2400	1725	143	1871	1920	2170	2623	180	250	1100	M42x60	410	2800	70	140	980	1260	/	/	M24
SM4500-TP	2500	1930	33	2048	2100	2200	2972	260	240	/	M30x60	820	2920	70	140	1120	1400	660	1040	M24
SM6500-TP	2800	2250	-280	2368	2390	2750	3165	300	160	/	M30x60	860	3070	70	140	1195	1475	725	1125	M24

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TP Euroseries

STANDARD AND OPTIONAL FEATURES		
CLAMPING UNIT	STANDARD	OPTION
Automatic mould height adjustment	●	
Hydraulic safety device	●	
Euromap 2 platen design	●	
Euromap 13	●	
Euromap 18 robot mounting	●	
Euromap 67 robot interface	●	
Euromap 70 & 70.1 interface for magnetic mould clamps		○
Extended mould height		○
Mechanical safety bar		○
Electric power door (front) with sensor	●	
Infrared light guard (front door)	●	
Automatic lubrication for toggles	●	
Automatic lubrication for mold height adjust	●	
Manual lubrication pump for mold height adjust		○
Anti-skid plates on walk way inside moulding area	●	
Additional core pulls (on moving platen)	2	
Air-blows	1×FP 1×MP	
Additional core-pulls		○
Additional air-blows		○
Parallel core pull movements	●	
Ejection-on-fly		○
Electric power door (front)	●	
Automatic clamping force control		○
Unique extractable tiebar design		○
OTHERS		
Power sockets 400V3P32A	1	
Power sockets 400V3P16A	1	
Power sockets 240V1P32A		○
Power sockets 240V1P16A	2	
Water manifolds (extra)	●	
Hydraulic by-pass filter		○
Hydraulic oil pre-heat		○

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

STANDARD AND OPTIONAL FEATURES		
INJECTION UNIT	STANDARD	OPTION
Ceramic heater bands	●	
Nitrited screw and barrel	●	
Bi-metallic screw and barrel		○
Shut-off nozzle		○
Linear transducer on injection stroke	●	
Linear transducer on injection carriage	●	
Screw rpm indicator	●	
Automatic lubrication of injection unit	●	
Manual lubrication pump for injection unit		○
Simultaneous recovery / parallel plasticising		○
Hopper slider	●	
Hopper	●	
Injection pressure display	●	
Feed zone temperature control	●	
Barrel insulation jacket	●	
Digital back pressure control	●	
Broken thermocouple detection alarm		○
Blocked nozzle and overflow detection	●	
Hydraulic/pneumatic valve gates control		○
CONTROLLER		
B&R PPC2100 controller (18.5" display)	●	
Sequence editor	●	
High-sensitivity mould protection	●	
Ethernet interface	●	
USB interface	●	
Euromap 67 interface	●	
Industry 4.0 connectivity		○
OPC-UA interface		○
Freely programmable core pulls	●	
Free I/O configuration	●	
Hot-runners control	●	