

MK6 Large

Euroseries

Datasheet



chenhsong.com
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⁺
Years of Excellence
Since 1958

200⁺
Patented technologies

20⁺
Software IP

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

Operates
800,000m²
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.

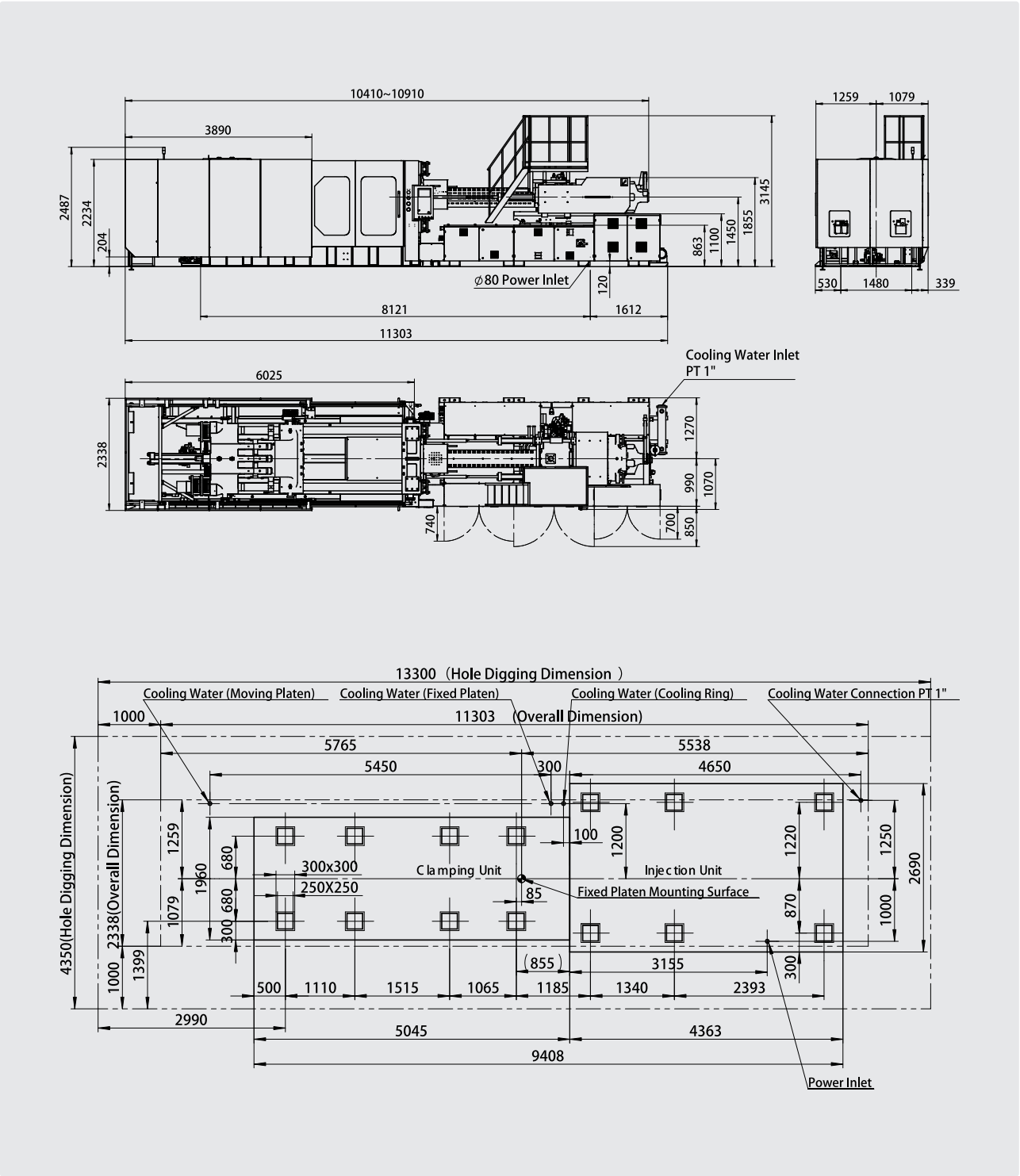
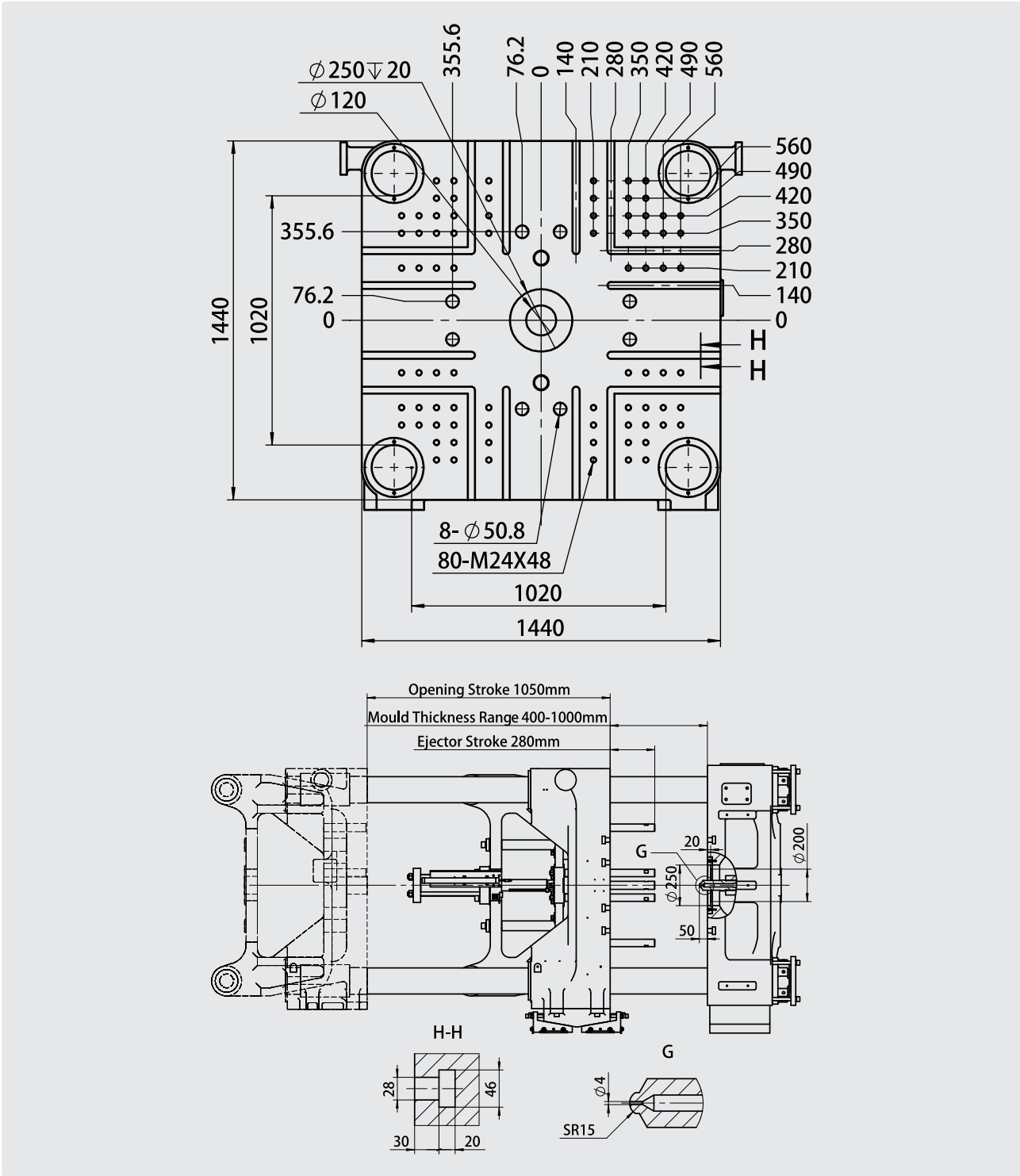
As Europe drives towards its goal of carbon neutrality, Chen Hsong does its part offering only fully-servo-driven equipment with the highest energy efficiency.

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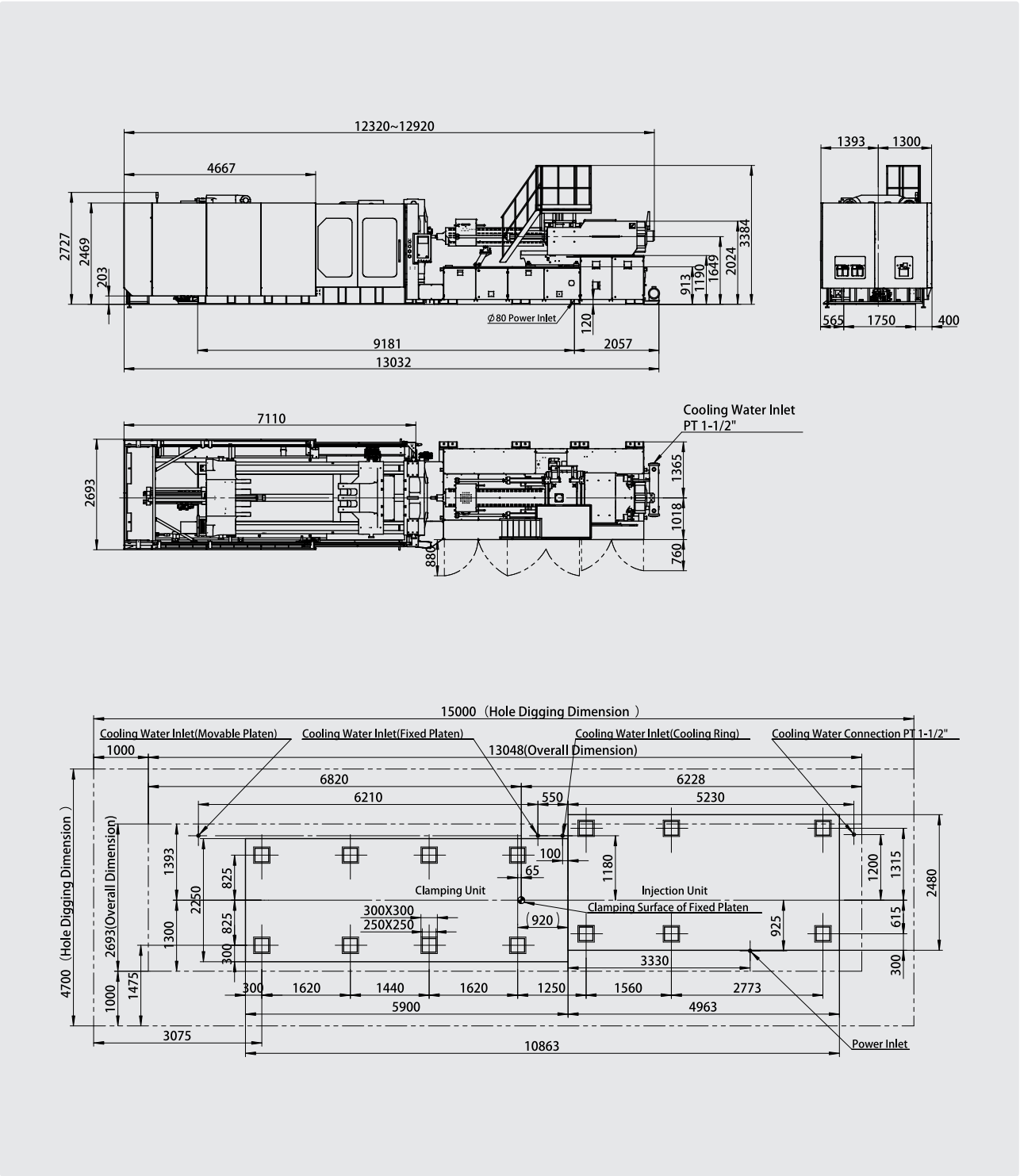
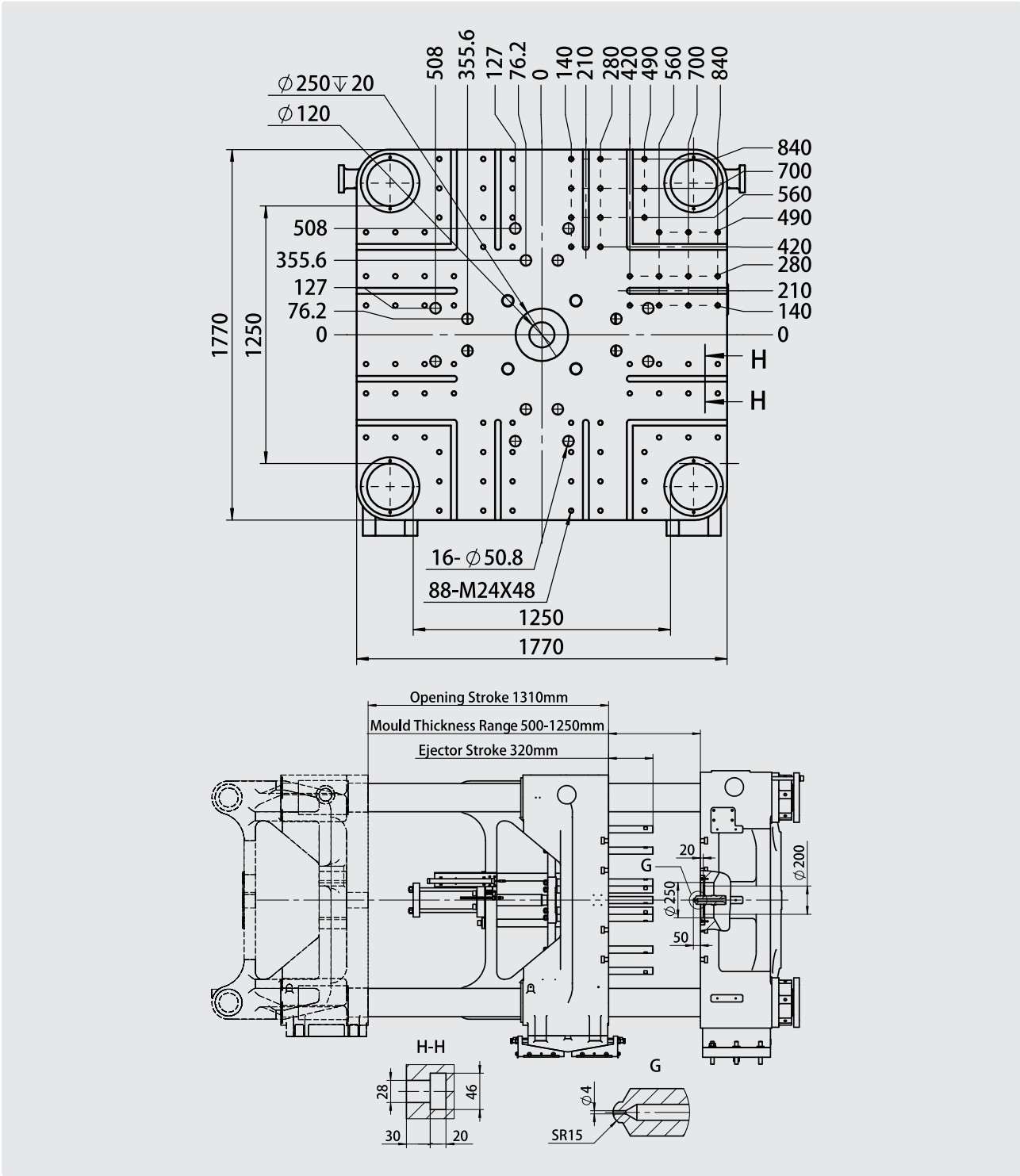
SPECIFICATIONS	UNIT	JM800-MK6			JM1000-MK6			JM1200-MK6			JM1400-MK6			JM1650-MK6		
INJECTION UNIT																
Screw Diameter	mm	90	98	110	98	110	120	110	120	130	120	130	140	130	140	150
Screw L/D	/	24	22	19.6	24.7	22	20.2	24	22	20.3	23.8	22	20.4	23.7	22	20.5
Injection Capacity (Theoretical)	cm³	3179	3770	4749	4146	5224	6217	5699	6782	7960	7347	8623	10001	9286	10770	12364
Injection Shot Weight (Max.)	g	2893	3430	4322	3773	4754	5658	5186	6172	7244	6686	7847	9101	8450	9801	11251
Injection Pressure (Max.)	MPa	217	184	146	232	184	155	219	184	157	211	180	155	209	180	157
Injection Rate (Max.)	cm³/s	607	720	907	700	885	1053	875	1045	1226	1035	1215	1409	1195	1390	1596
Injection Speed (Max.)	mm/s	95			93			92			92			90		
Injection Stroke (Max.)	mm	500			550			600			650			800		
Screw RPM (Max.)	rpm	130			110			110			100			95		
Nozzle Contact Force (Max.)	kN	167			167			167			167			167		
Nozzle Stroke (Max.)	mm	560			595			700			720			800		
CLAMPING UNIT																
Clamping Force (Max.)	kN	8000			10000			12000			14000			16500		
Clamp Opening Stroke (Max.)	mm	1050			1230			1310			1500			1600		
Platen Dimensions (HxV)	mm	1440x1440			1630x1630			1770x1770			2030x1930			2190x2070		
Distance Between Tie Bars (HxV)	mm	1020x1020			1160x1160			1250x1250			1450x1350			1550x1430		
Mold Thickness (Min.-Max.)	mm	400-1000			450-1160			500-1250			650-1400			700-1500		
Max. Daylight	mm	2050			2390			2560			2900			3100		
Ejector Force (Max.)	kN	182			215			215			352			352		
Ejector Stroke (Max.)	mm	280			320			320			400			400		
No. of Ejectors	PCS	9			17			17			17			17		
Locating Ring Diameter	mm	250			250			250			250			250		
OTHERS																
System Pressure	MPa	17.5			17.5			17.5			17.5			17.5		
Motor Power (Rated)	kW	109			118			153			176			213		
Barrel Heating Power (Max.)	kW	51.9			64.3			77.3			77.7			104.7		
Temperature Control Zones	Zone	6+1			6+1			6+1			6+1			6+1		
Machine Dimensions (LxWxH)	m	11.4x2.4x3.2			12x2.6x3.3			13.1x2.7x3.4			14x3.1x3.5			15x3.2x3.7		
Oil Tank Capacity	L	1050			1250			1600			1750			2000		
Machine Weight	kg	34000			44000			55000			77000			97000		

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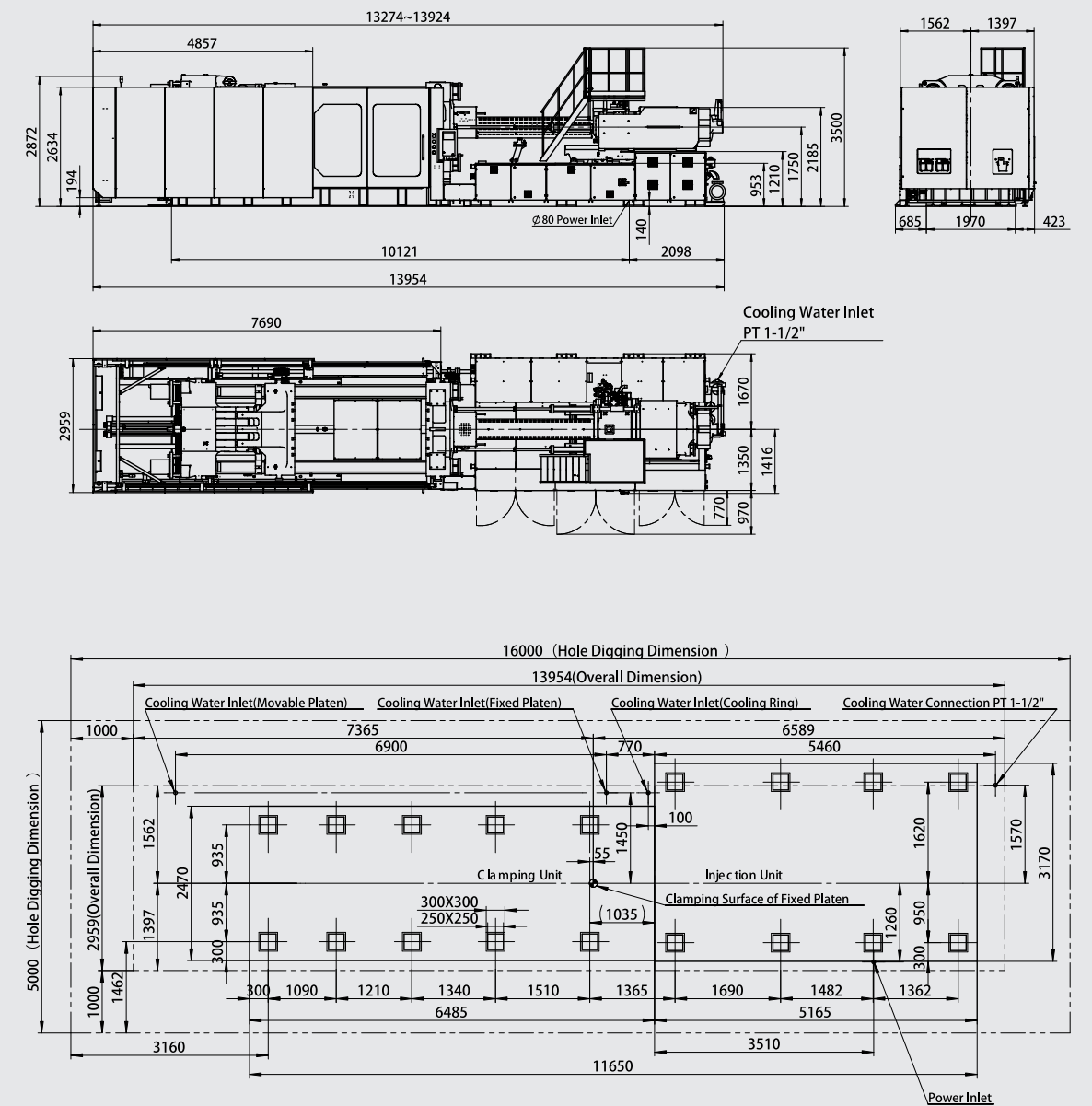
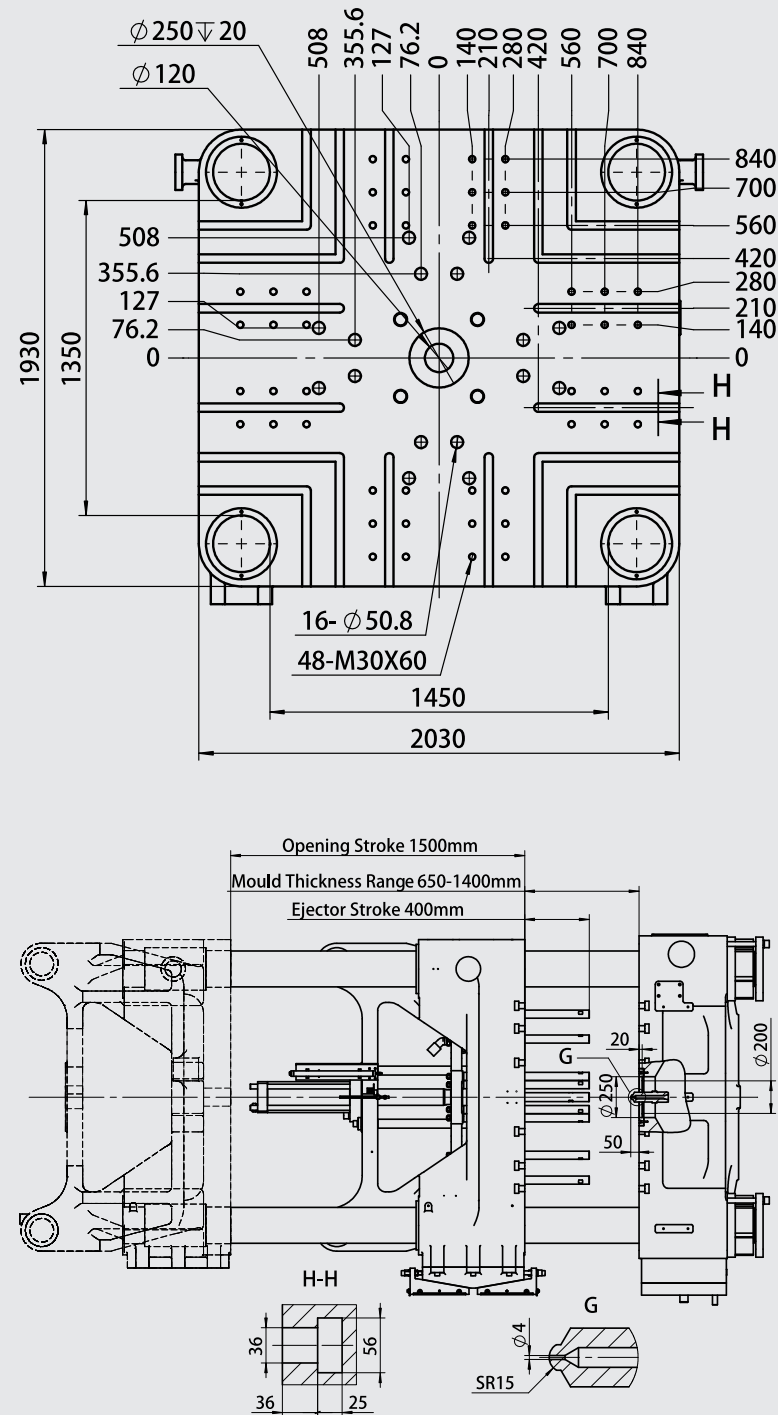
JM800-MK6 Euroseries



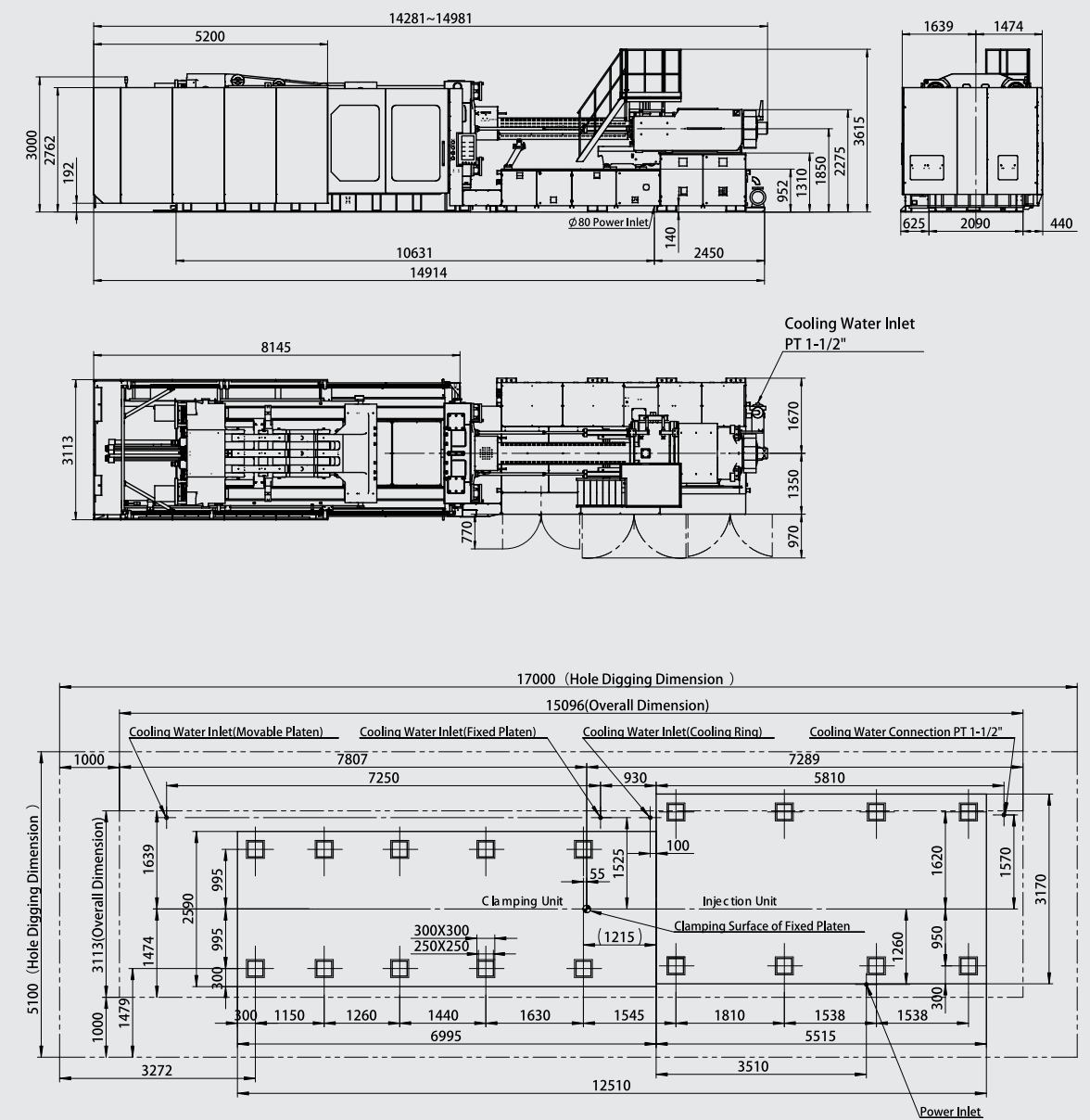
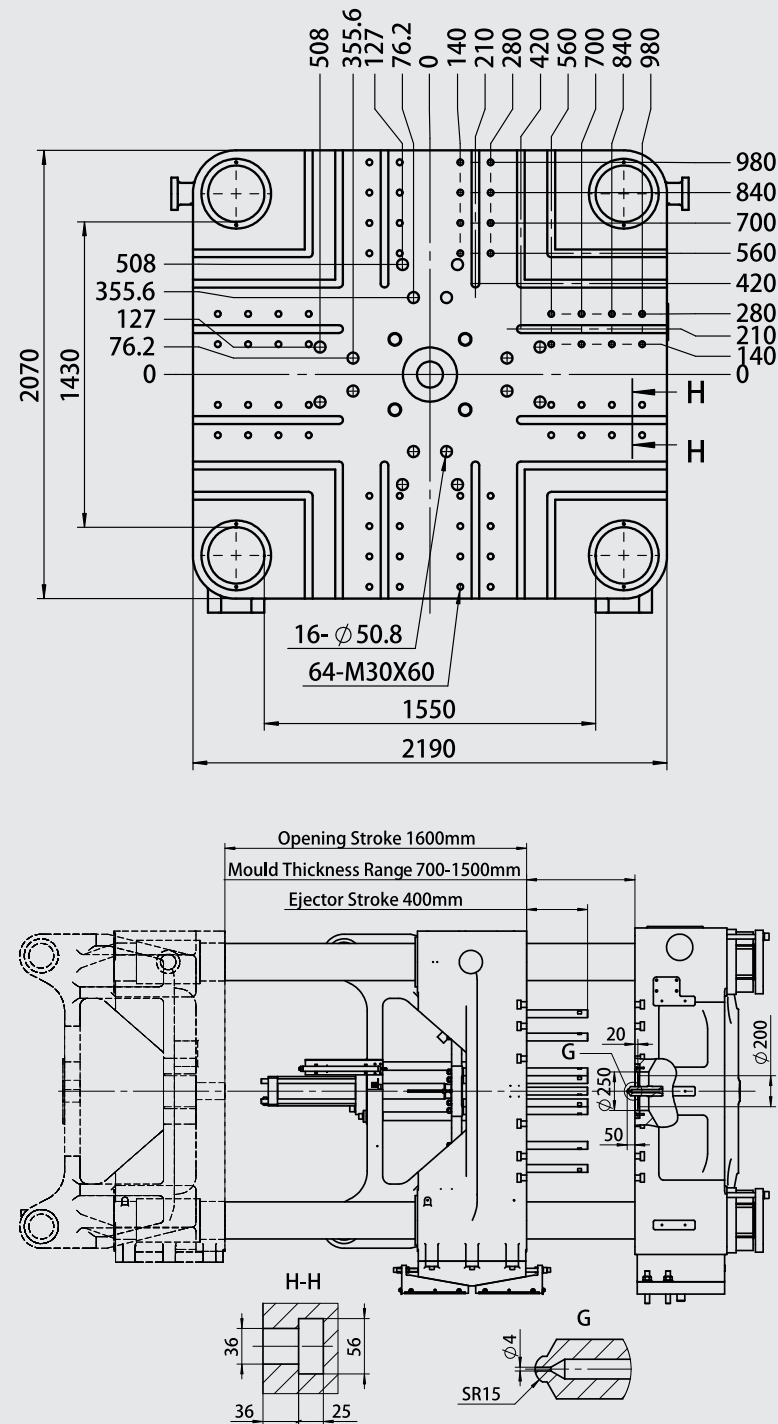
JM1200-MK6 Euroseries



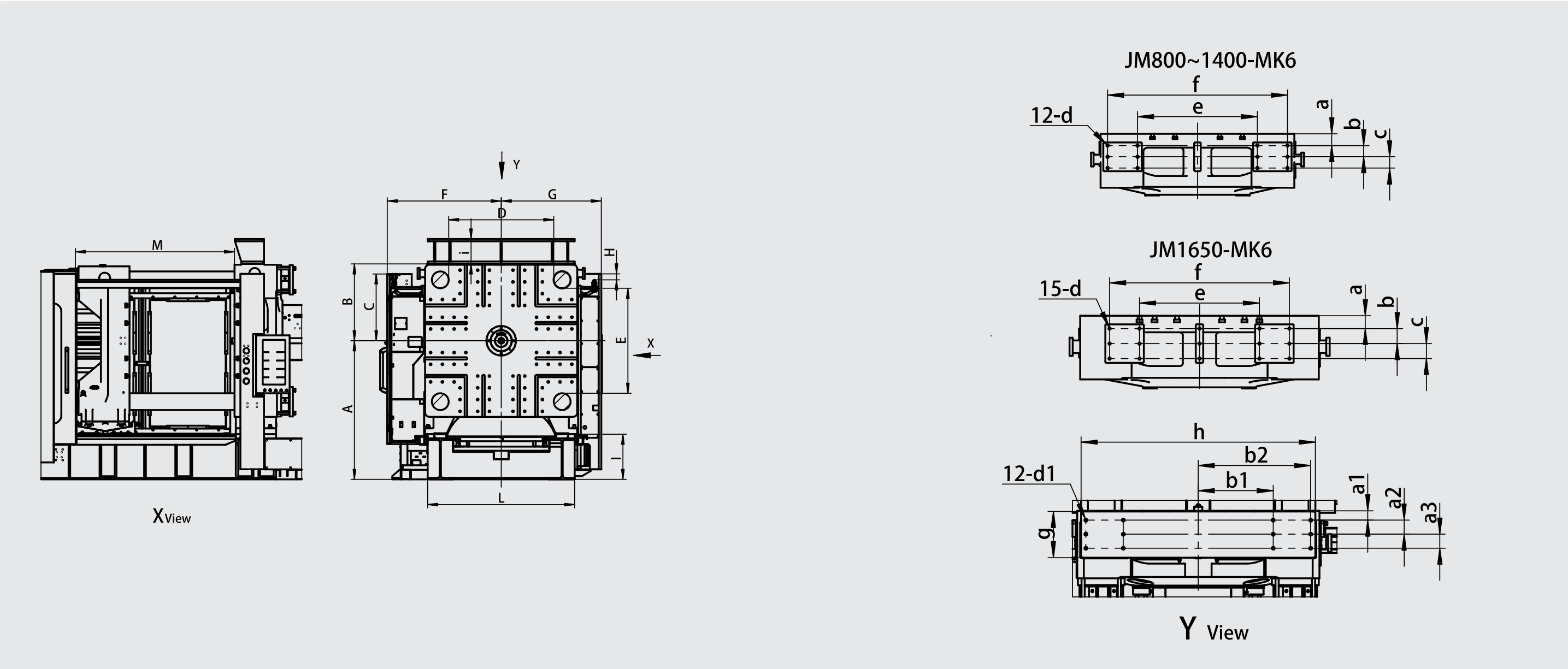
JM1400-MK6 Euroseries



JM1650-MK6 Euroseries



Robot installation Dimension diagram



MODEL	A	B	C	D	E	F	G	H	I	L	M	a	b	c	d	e	f	g	h	i	a1	a2	a3	b1	b2	d1
JM800-MK6	1450	750	760	1020	1020	1180	1000	70	538	1480	1580	110	105	105	M24x48	840	1260	330	1330	296	70	105	105	420	630	M24
JM1000-MK6	1550	850	840	1160	1160	1280	1100	70	538	1640	1720	110	105	105	M24x35	840	1400	330	1470	296	70	105	105	420	700	M24
JM1200-MK6	1650	915	795	1250	1250	1355	1190	71	538	1750	1850	110	140	140	M24x48	1120	1680	340	1750	296	70	105	105	560	840	M24
JM1400-MK6	1750	997.5	861	1450	1350	1488	1323	70	538	1970	2115	110	140	140	M24x48	1120	1680	410	1750	296	70	105	105	560	840	M24
JM1650-MK6	1850	1065	890	1550	1430	1565	1400	72	538	2090	2200	120	140	140	M24x48	1120	1680	430	1750	296	70	105	105	560	840	M24

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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		○
Product chute photo sensor		○
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	1xFP 1xMP	
Additional core-pulls		○
Additional air-blows		○
Parallel core pull movements		○
Ejection-on-fly		○
Electric power door (front)	●	
Automatic clamping force control		○
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	●	

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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 PPC2200 controller (15.6" 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	●	