

Our offices and agents



CPMIA
Energy Saving Award

WELLTEC

Small and medium-sized Servo-driven Two-platen Injection Moulding Machine(450-900JSeII)



WELLTEC

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We are one of the pioneers in developing two-platen injection moulding machines from 1990s.

We launched the first two-platen injection moulding machine in 2000 which was granted with national design patents.

Year 2002

Batch production of two-platen injection moulding machines

Year 2007

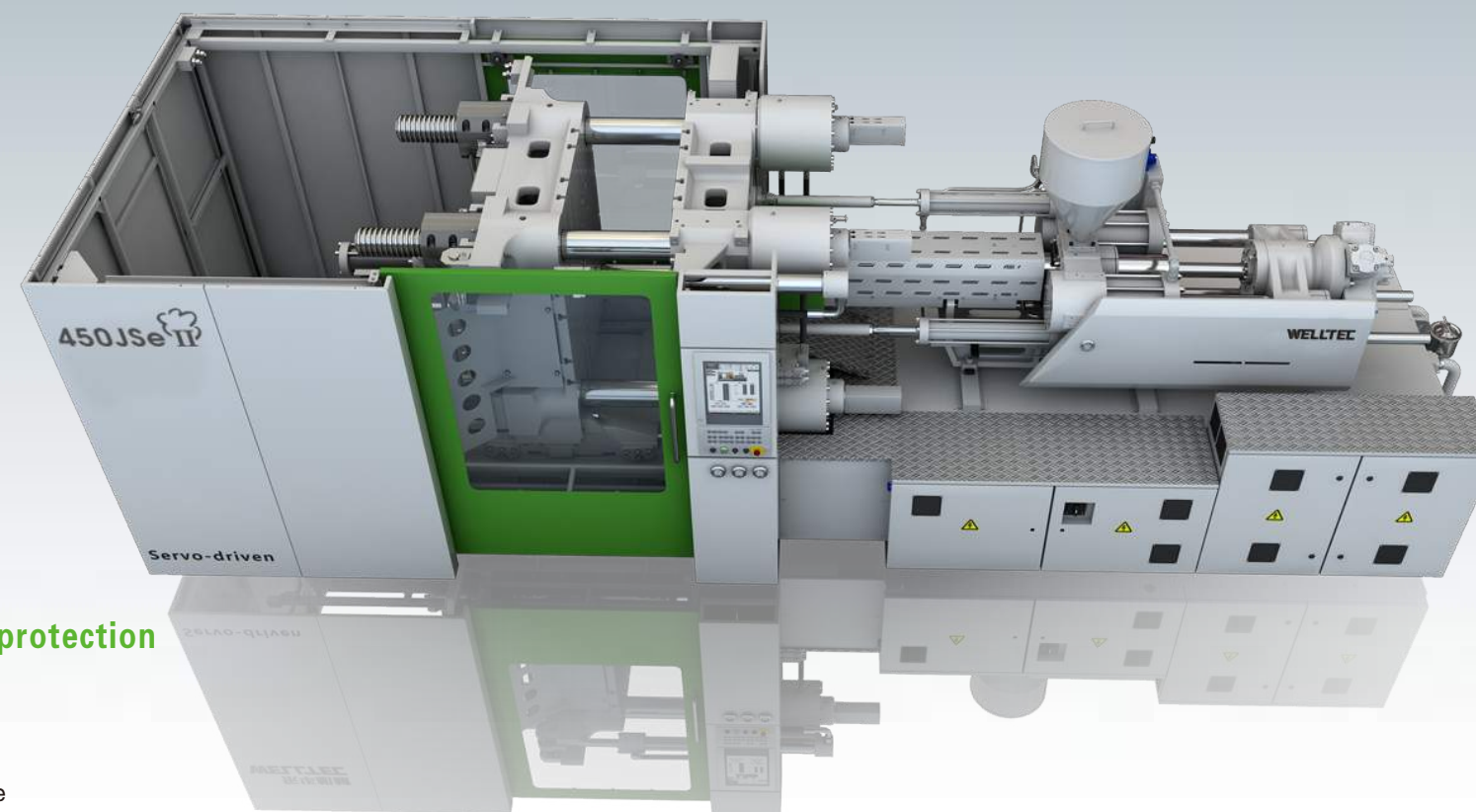
The first 4000 Ton two-platen injection moulding machine in China

Year 2013

The 4th generation was well developed

Year 2016

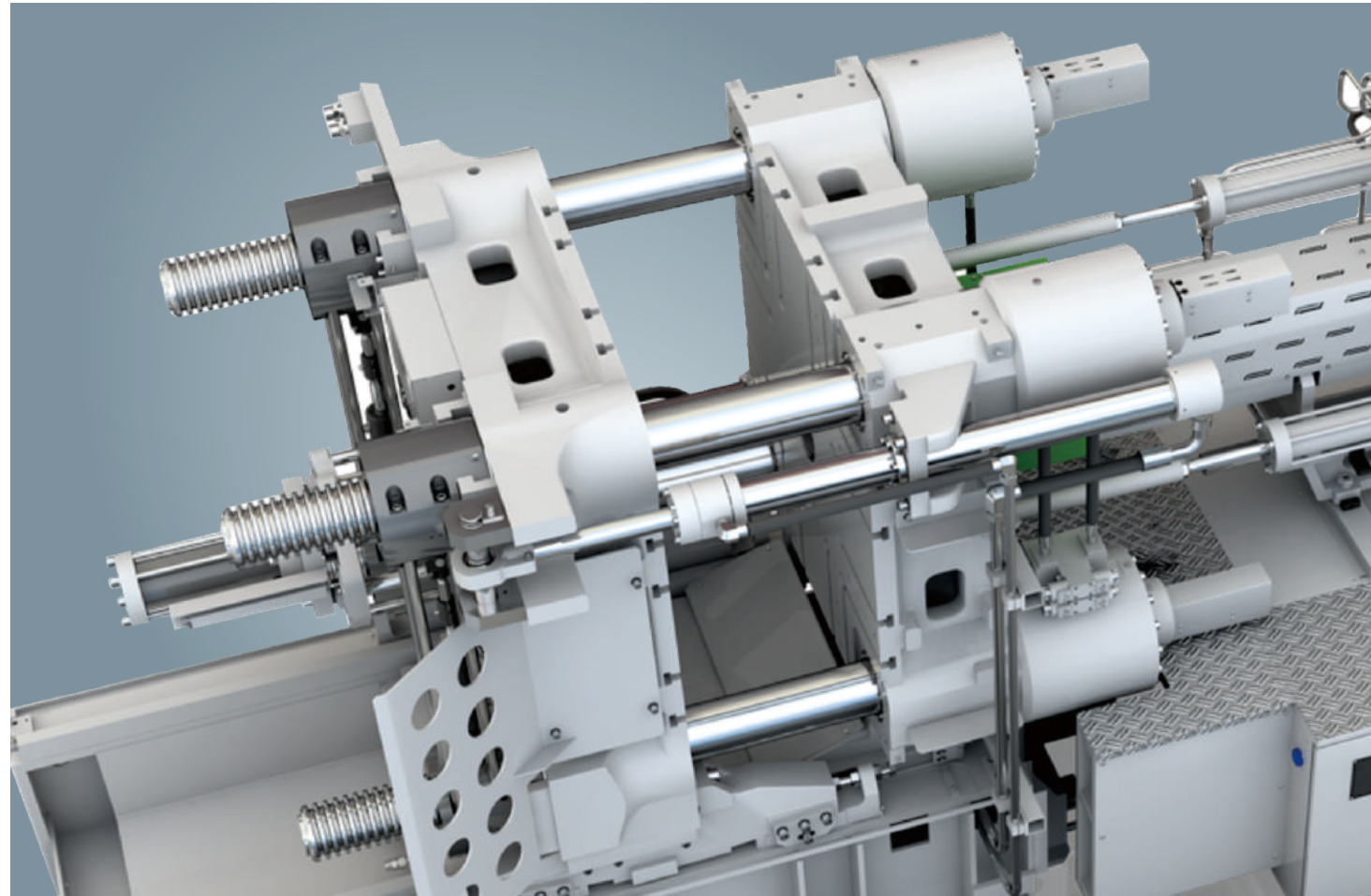
Small and medium-sized two-platen injection moulding machines successfully launched



 **Energy saving and environmental protection**
Energy saving by over 50% on average

 **Patent right**
Advanced clamping structure

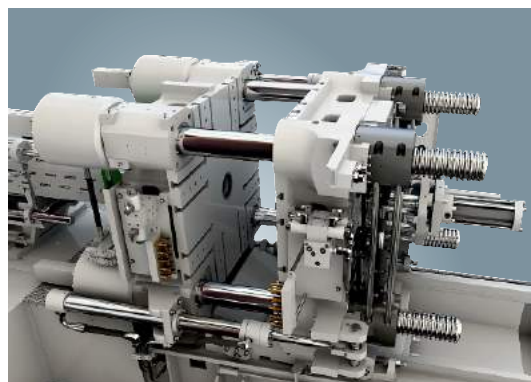
 **High repeatability**
Product weight repeatability with deviation less than 0.3%



CLAMPING UNIT

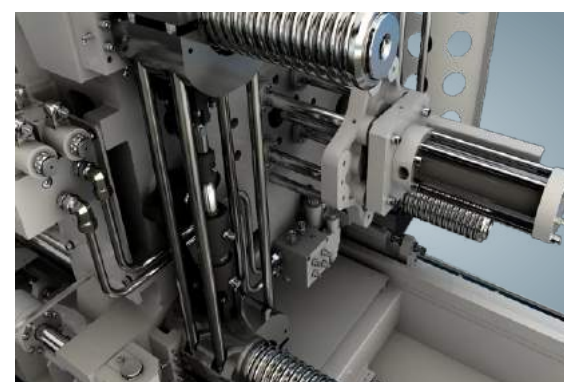
Advanced two-platen clamping design

The compact structure of the two-platen clamping design significantly reduces the floor space occupancy.



Minimal rebound

Synchronous tie bar locking system with buffer feature ensures the nut locking precision with minimal rebound.



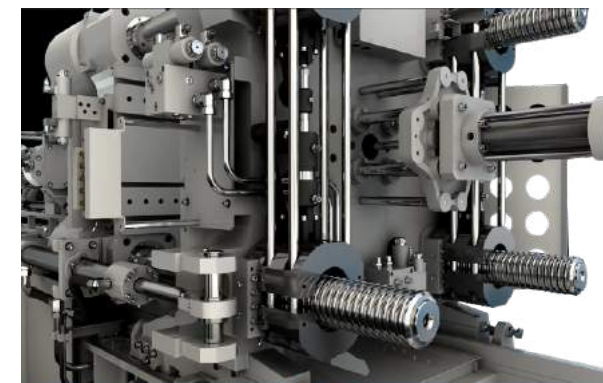
Extended moving platen support

Extended moving platen ensures precise movement though mounted with heavy moulds. The mould life is therefore extended.



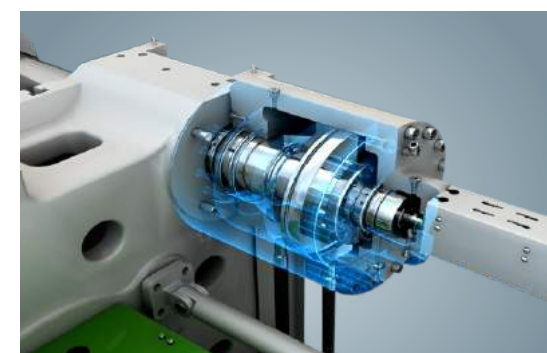
Modular design

Facilitates easy maintenance



No Toggle design

With less mechanical parts compared with toggle machines, hydraulic cylinder seals are the only parts that need maintenance.



Friction- free design

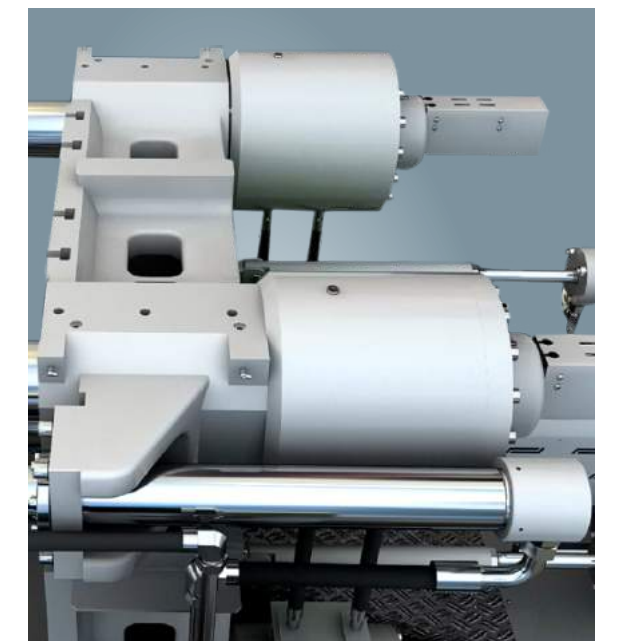
No friction between the tie bar and moving platen securing longer machine life.

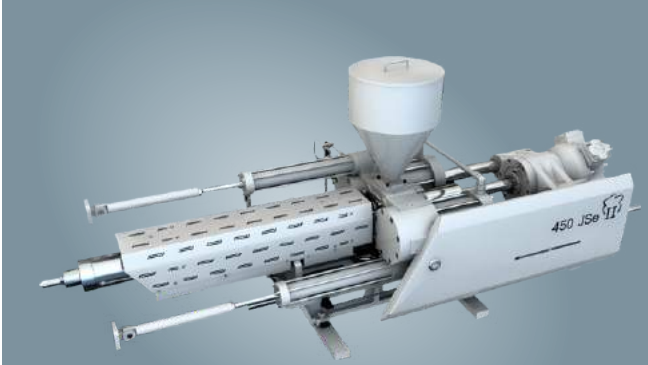
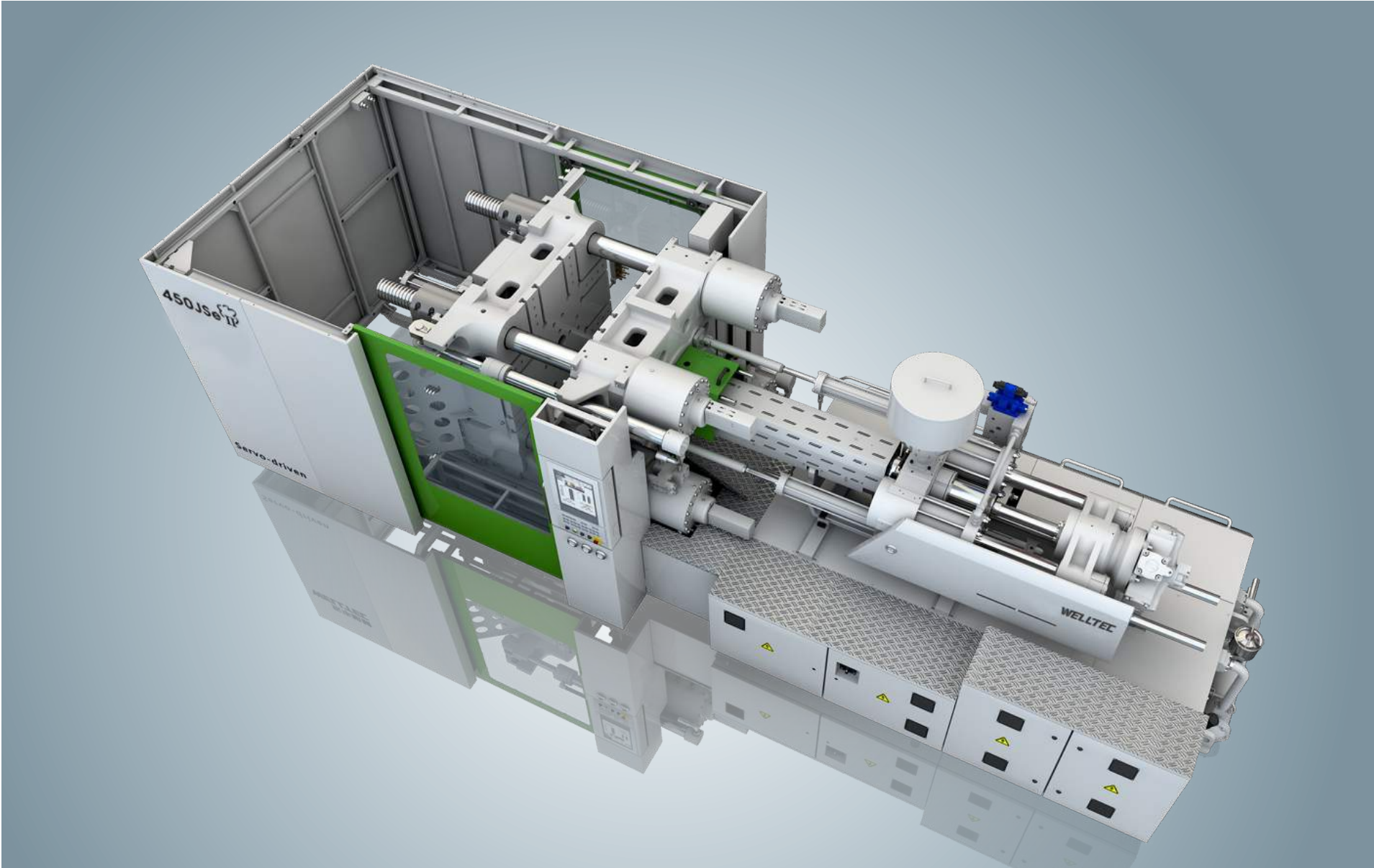
The two diagonally placed hydraulic cylinders increase mould opening and closing speed.



Even force distribution

Four short-stroke clamping cylinders are embedded on the fixed platen attaining even force distribution during clamping.





Optimized injection unit

The diagonally located hydraulic cylinders enhances the accuracy in centering of the injection unit and stable movement of the carriage.

Advanced control system

- High performance European B&R control system for injection moulding machine
- 15 inch colour touch screen with separate operation keyboard
- Powerful software enables different system integration.
- Multi-language



Precise control

The whole control system adopts full digital control and the CPU has an extreme short response time. With optimized combination and switching code system, the speed and pressure are controlled through predicted curve. It enables a smooth movement, accurate positioning and high repeatability of product weight and dimension.

iSee 4.0 built-in interface

iSee 4.0 interface is incorporated for real-time monitoring, remote diagnosis and smart factory management

High-performance hydraulic system



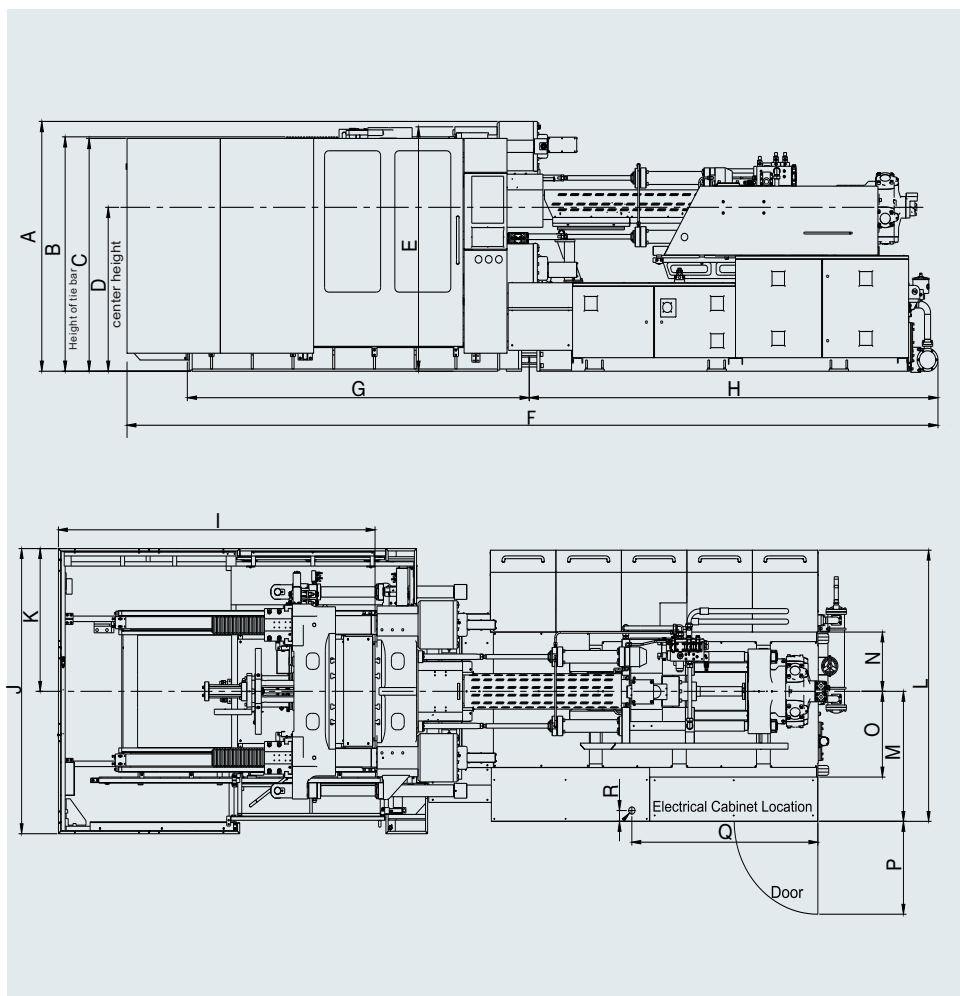
With high- performance servo and integrated hydraulic system , output efficiency and response are optimized. Power consumption and noise are significantly reduced.

SPECIFICATIONS

		450JSell			550JSell			650JSell			750JSell			900JSell		
INJECTION UNIT																
Screw diameter	mm	70	80	90	70	80	94	80	90	105	90	100	110	90	100	110
Screw ratio	L/D	24.1	21	18.6	24.1	21	18	23.6	21	18	22.6	20	18	22.6	20	18
Theoretical shot volume	cm³	1424	1860	2354	1486	1940	2679	2212	2799	3810	2990	3691	4467	2990	3691	4467
Shot weight (PS)	g	1282	1674	2118	1337	1746	2411	1991	2519	3429	2691	3322	4020	2691	3322	4020
	oz	45.3	59.1	74.9	47	62	85	70.3	89	121.2	95	117	142	95	117	142
Injection pressure	Mpa	228	174	138	221	170	123	215	170	125	218	176	146	218	176	146
Injection rate (50Hz)	cm³/sec	367	479	606	378	493	680	536	679	924	604	746	902	604	746	902
Injection speed (50Hz)	mm/s	95			98			107			95			95		
Injection stroke	mm	370			386			440			470			470		
Max. screw speed	rpm	174			174			165			126			126		
Plasticizing capacity(PS)	g/s	76.3	100.3	113.6	77.3	100.3	133.7	99.9	121.2	183.3	74	92	124	74	92	124
Injection unit force	Ton	11.7			19.8			19.8			19.8			19.8		
Carriage stroke	mm	530			550			600			650			730		
CLAMPING UNIT																
Clamping force	Ton	450			550			650			750			900		
Mould opening force	Ton	47.5			55			64.7			64.7			84.5		
Distance between tie-bars	mm	810x800			960x860			1040x910			1110x960			1180x1000		
Platen size	mm	1210X1200			1370X1270			1440X1370			1520X1450			1650X1560		
Opening stroke	mm	1050-550			1200-650			1350-800			1400-900			1600-1000		
Max. daylight	mm	1400			1550			1750			1850			2100		
Mould thickness range	mm	350-850			350-900			400-950			450-950			500-1100		
Min. mould dimension	mm	540x530			640x580			700X600			740x640			800x680		
Max. mould weight	Ton	6.5			8			9			11			13		
Mould closing speed	mm/s	1242			1242			1220			1210			1210		
Mould opening speed	mm/s	1192			1192			1361			1110			1110		
Ejector force	Ton	13.5			13.5			13.5			21.5			21.5		
Ejector stroke	mm	250			250			250			300			300		
Dry cycle (EUROMAP 6)	s	3.9			4.4			4.8			5.2			5.7		
GENERAL																
Hydraulic pump capacity	L/min	286			286			396			451			451		
Main motor	kW	37.7+23+11			37.7+23+11			46.1+37.7+11			56.5+37.7+11			56.5+37.7+11		
Heater power	kW	24.64			31			32			50			50		
Oil filling capacity	L	900			900			1200			1500			1500		
Machine dimension	mm	6970X2300X2100			7165X2500X2110			7970X2600X2210			8735x2700x2365			9100X2950X2410		
Machine net weight	Ton	18			21			25			32			36		

■ We are always working on improvement and reserve the right to change design and specifications without prior notice

Machine Dimensions 450~900JSe II



	A	B	C	D	E	F	G	H	I
450JSeII	2010	1890	2060	1350	1975	6959	2820	3567	2740
550JSeII	2110	1979	2060	1400	2070	7166	3030	3574	2930
650JSeII	2210	2074	2060	1450	2162	7965	3358	4014	3200
750JSeII	2365	2209	2060	1550	2300	8733	3513	4533	3450
900JSeII	2410	2247	2060	1550	2350	9098	3858	4533	3730

	J	K	L	M	N	O	P	Q	R
450JSeII	2300	1180	2114	964	410	560	633	1460	99
550JSeII	2500	1265	2114	964	410	560	633	1460	99
650JSeII	2596	1300	2319	1059	515	655	845	1880	99
750JSeII	2700	1400	2364	1014	610	610	845	1950	130
900JSeII	2950	1475	2364	1014	610	610	845	1950	130

Remark: C-hopper height for reference only

Platen/Nozzle Dimensions

