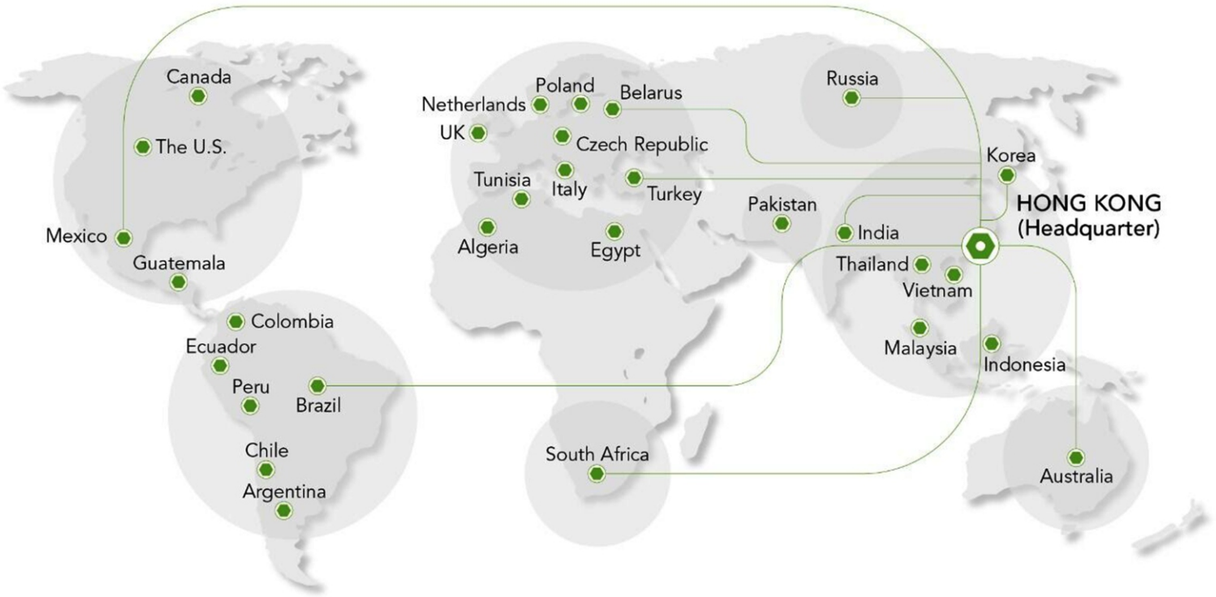
Our offices and agents



CPMIA
Energy Saving Award

WELLTEC
INJECTION EXPERT

450-900JSe II

Small and medium-sized Servo-driven Two-platen Injection Moulding Machine

Welltec Machinery Ltd

www.welltec .com.hk

Version: JSeIIS-202403

www.welltec.com.hk

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

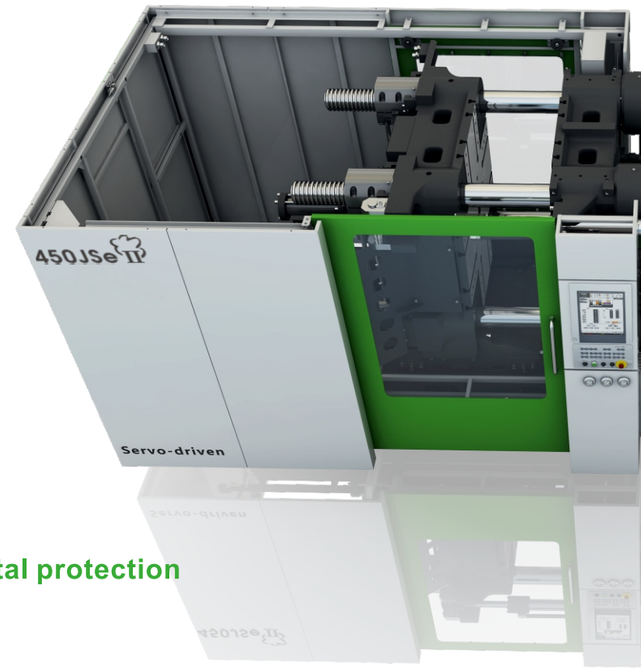
We launched the first two- platen injection moulding machine in 2000 which was granted with national design patents.

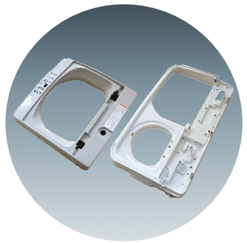
Year 2002
Batch production of two-platen injection moulding machines

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

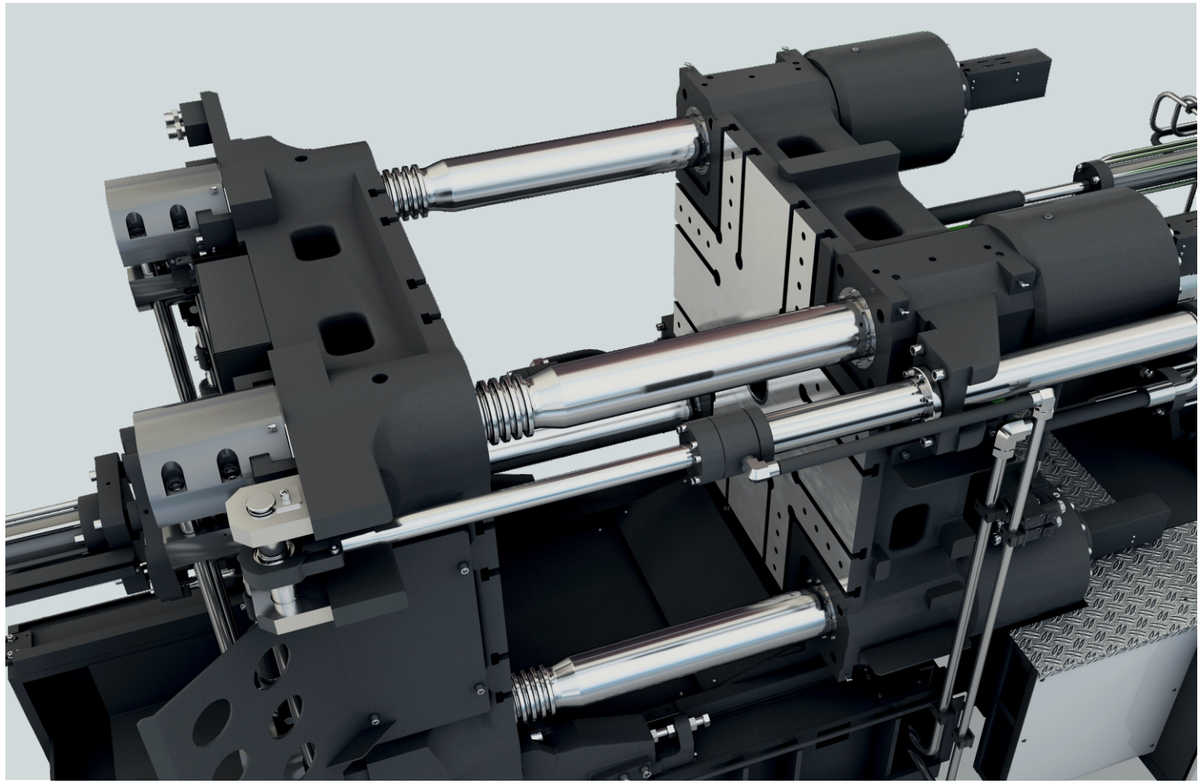




Energy saving and environmental protection
Energy saving by over 50% on average

Patent right
Advanced clamping structure

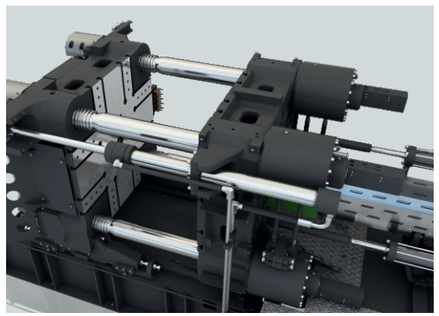
High repeatability
Product weight repeatability with deviation less than 0.3%



CLAMPING UNIT

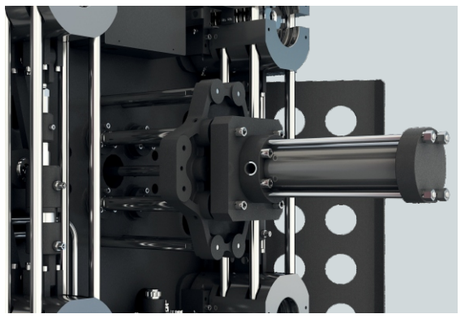
Advanced two-platen clamping design

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



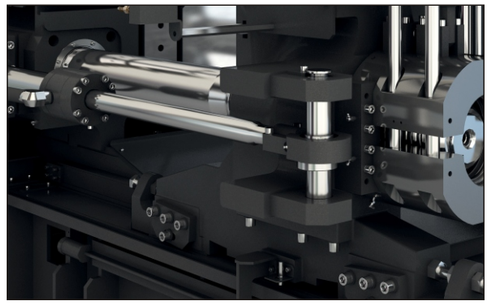
Minimal rebound

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



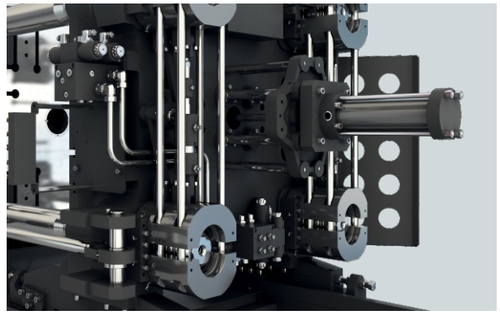
Extended moving platen support

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



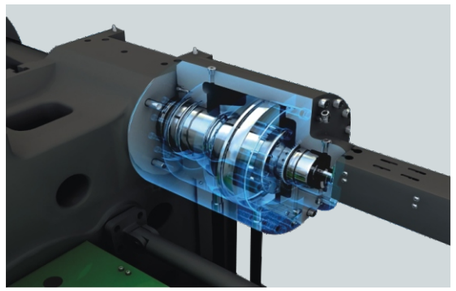
Modular design

Facilitates easy maintenance.



No Toggle design

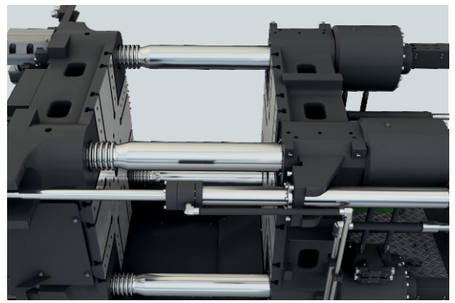
With less mechanical parts compared with toggle machines, hydraulic cylinder seals are the only parts that need maintenance.



Friction- free design

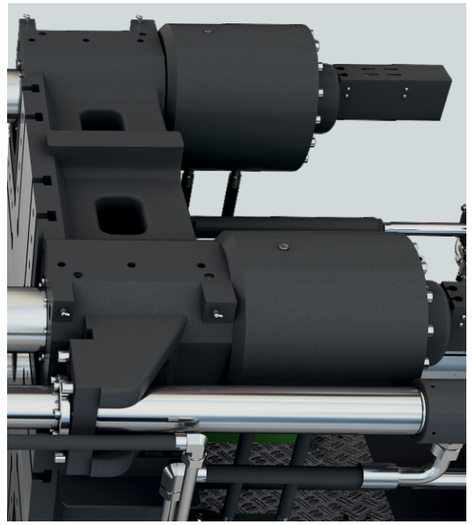
No friction between the tie bar and moving platen securing longer machine life.

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

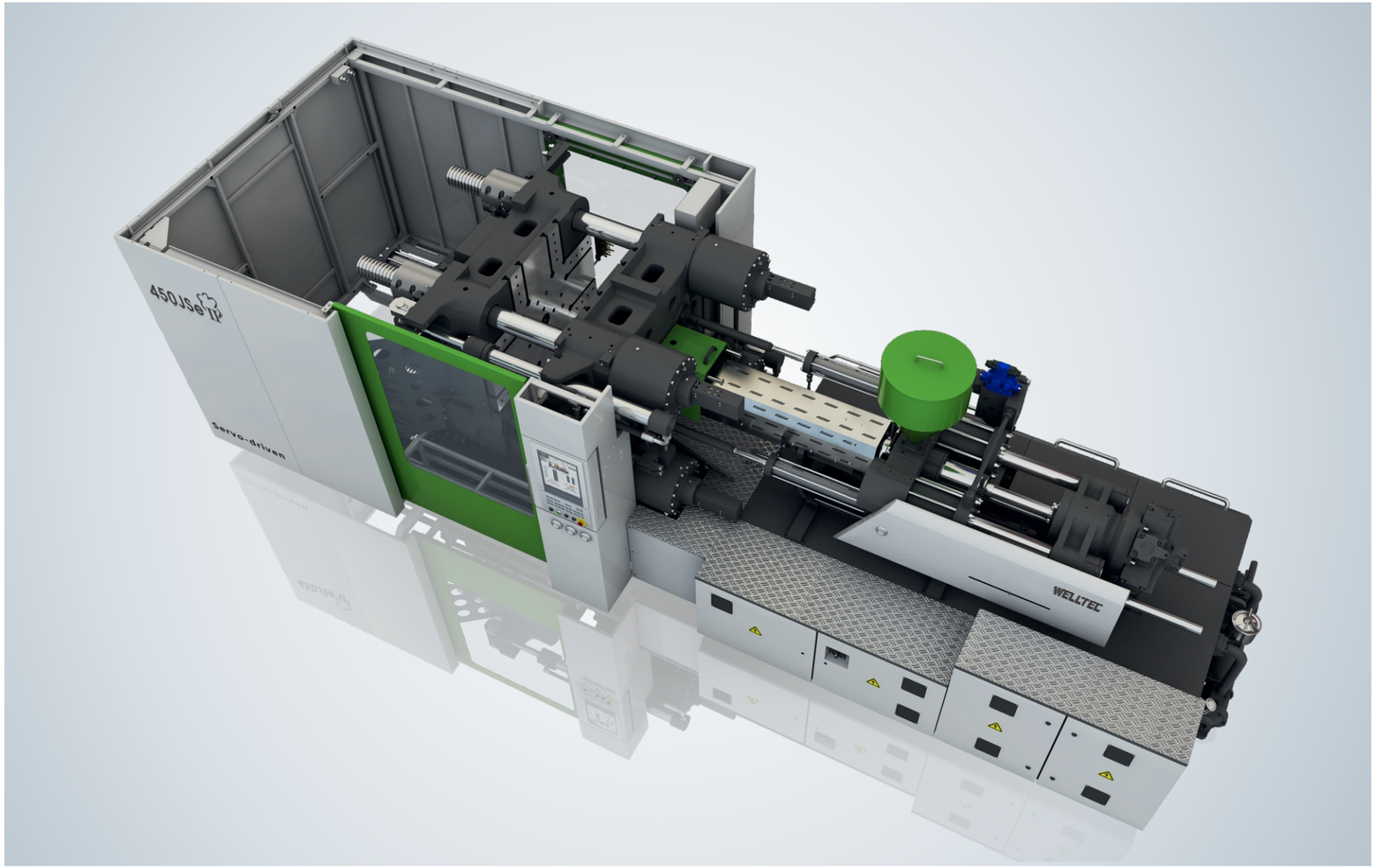


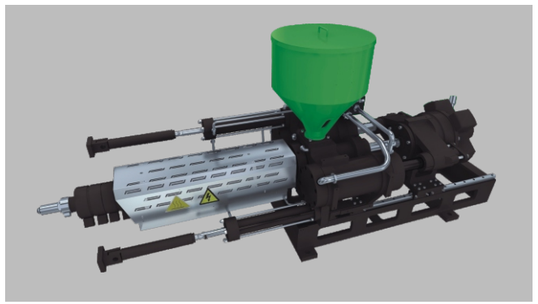
Even force distribution

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



GREENLINE
Green up your life





Optimized injection unit

New optimized injection unit design.
Linear guide rail greatly reduces machanical loss and improves machine performance.

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

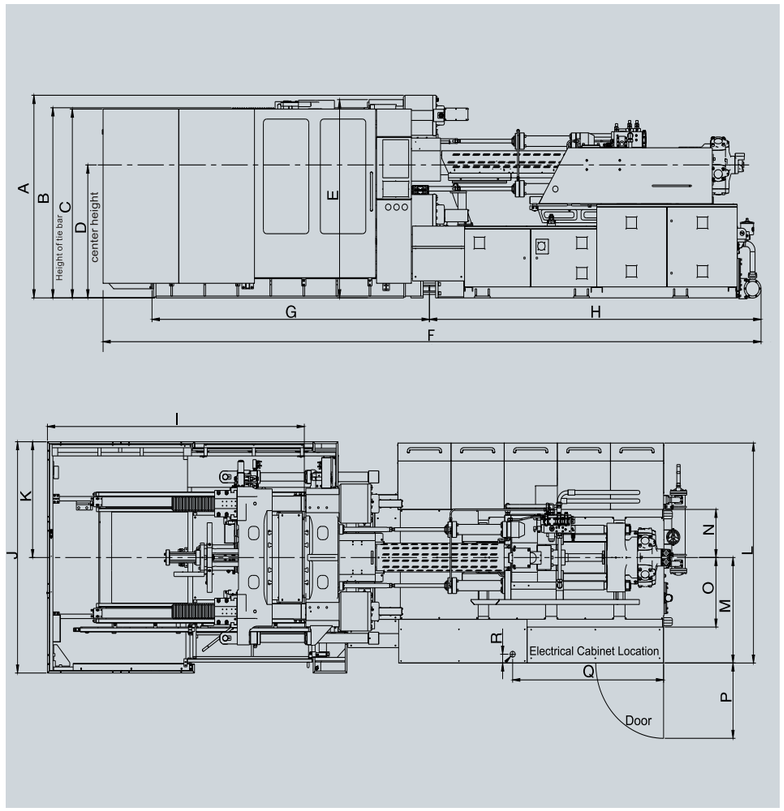
With high– performance servo and integrated hydraulic system , output efficiency and response are optimized. Power consumption and noise are significantly reduced.

SPECIFICATIONS

		450JSeII			550JSeII			650JSeII			750JSeII			900JSeII		
INJECTION UNIT																
Screw diameter	mm	70	80	94	70	80	94	80	90	105	90	100	110	90	100	110
Screw ratio	L/D	24.2	21.2	18	24.2	21.2	18	23.6	21	18	22.6	20	18	22.6	20	18
Theoretical shot volume	cm^3	1539	2011	2776	1539	2011	2776	2212	2799	3810	2990	3691	4467	2990	3691	4467
Shot weight (PS)	g	1401	1830	2526	1401	1830	2526	1991	2519	3429	2691	3322	4020	2691	3322	4020
	oz	49.5	64.7	89.3	49.5	64.7	89.3	70.3	89	121.2	95	117	142	95	117	142
Injection pressure	Mpa	228	174	126	228	174	126	215	170	125	218	176	146	218	176	146
Injection rate (50Hz)	cm^3/sec	366	478	660	366	478	660	536	679	924	604	746	902	604	746	902
Injection speed (50Hz)	mm/s	95			95			107			95			95		
Injection stroke	mm	400			400			440			470			470		
Max. screw speed	rpm	177			177			165			126			126		
Plasticizing capacity(PS)	g/s	75.6	98	136.6	75.6	98	136.6	99.9	121.2	183.3	74	92	124	74	92	124
Injection unit force	Ton	12			12			19.8			19.8			19.8		
Carriage stroke	mm	530			530			600			650			730		
CLAMPING UNIT																
Clamping force	Ton	450			550			650			750			900		
Opening force (High pressure locking cyliner)	Ton	47.5			55			64.7			64.7			84.5		
Opening force (Close and open cyliner)	Ton	13.47			13.47			17.59			22.27			22.27		
Distance between tie bars	mm	810×800			960×860			1040×910			1110×960			1180×1000		
Platen size	mm	1210×1200			1370×1270			1440×1370			1520×1450			1650×1560		
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	540×530			640×580			700×600			740×640			800×680		
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	26.7+16.4+11			26.7+16.4+11			40.9+26.7+11			50.7+26.7+11			50.7+26.7+11		
Heating power	kW	34.94			34.94			35.66			50			50		
Oil filling capacity	L	900			900			1200			1500			1500		
Machine dimension	mm	7000×2300×2110			7185×2500×2110			7970×2600×2210			8735×2700×2415			9100×2950×2460		
Machine 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



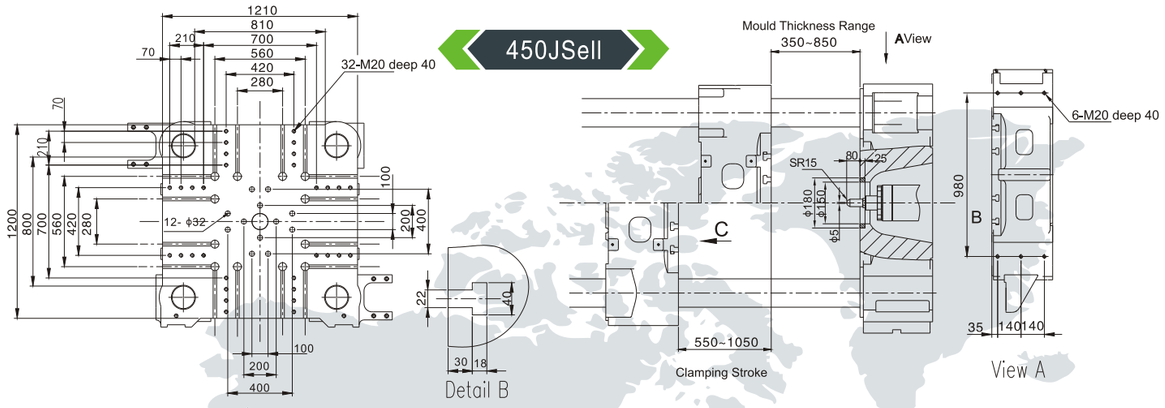
	A	B	C	D	E	F	G	H	I
450JSeII	2060	1940	2110	1400	2025	6993	2820	3600	2740
550JSeII	2110	1979	2060	1400	2070	7183	3030	3590	2930
650JSeII	2210	2074	2060	1450	2162	7965	3358	4014	3200
750JSeII	2415	2259	2110	1600	2350	8733	3513	4533	3450
900JSeII	2460	2297	2110	1600	2400	9098	3858	4533	3730

	J	K	L	M	N	O	P	Q	R
450JSeII	2300	1180	2184	964	480	560	633	1460	99
550JSeII	2500	1265	2184	964	480	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

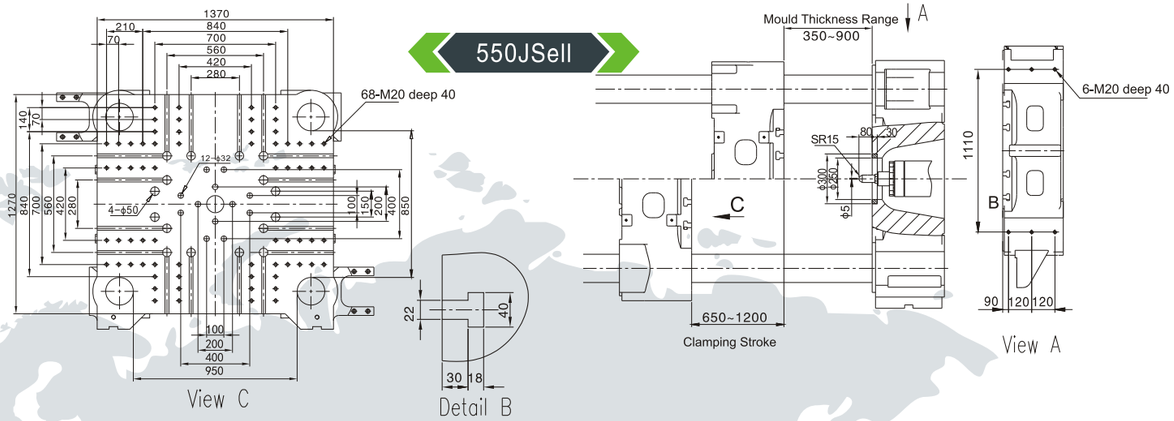
Remark: C-hopper height for reference only

Platen/Nozzle Dimensions

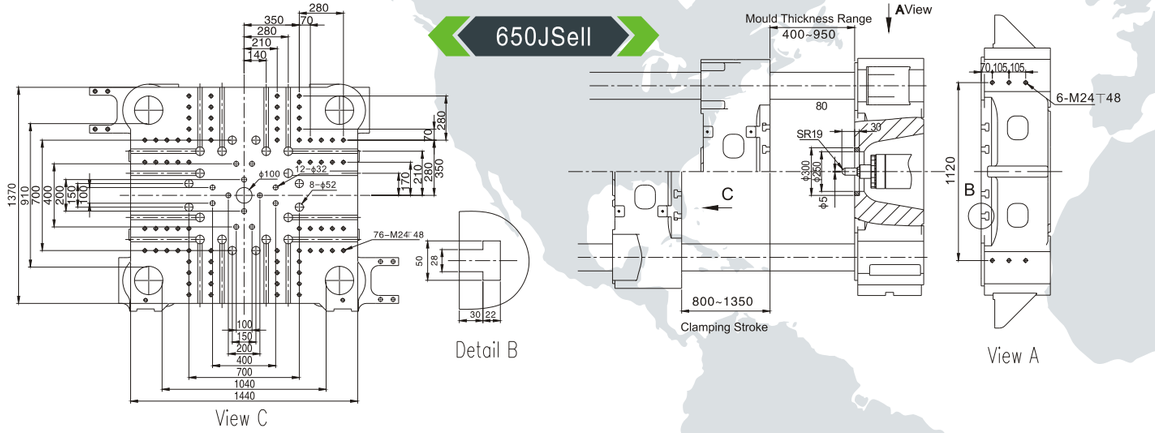
450JSeII



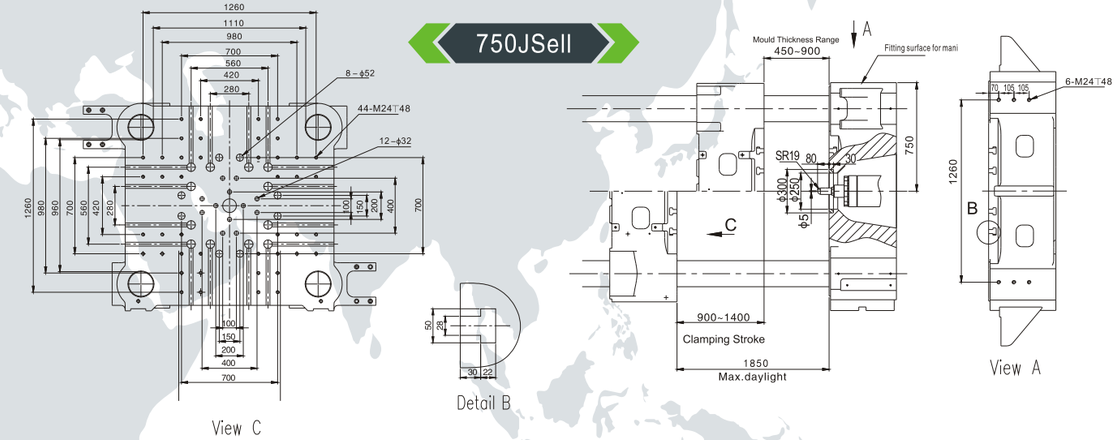
550JSeII



650JSeII



750JSeII



900JSeII