

FULLY ELECTRIC INJECTION SYSTEM
PRECISE • EFFICIENT • FAST

WALMO



HAVING THE CORE TECHNOLOGY IS THE MOST RELIABLE



SPECIFICATION

- ▲ RE50-1100
- ▲ RC180-400



Solution

To provide customers with all electric under 1100 tons of all electric injection solutions.
The small injection volume model was modified to the large injection volume model.
On the basis of the existing monochrome transformation into a two-color.
Convert normal rate of fire to high rate of fire.

Help the customer

To solve problems for customers is our fundamental
dedicated to customer service.

ABOUT WALMO

HAVING THE CORE TECHNOLOGY IS THE MOST RELIABLE

WALMO PRECISION MACHINERY Co., Ltd. is a company committed to all-electric injection technology as a platform, research and development production of ultra-high speed injection molding systems, multi-color injection molding process, packaging bottle cap injection system, mould labeling and form a complete set of the high precision mould injection system and the peripheral devices of high-tech company.

All electric injection molding machine compared to previous common with high efficiency and energy saving, clean environmental protection, product precision and other characteristics; on a global scale the technology monopoly by Japanese companies. We gathered people with top talent in automation, software, electrical and mechanic , after several years of hard efforts to research and development success, equipment's precision and stability is equal to Europe and Japan with world-class level.

We are all based on the fully electric injection solution platform and we have the incomparable technical advantage and cost advantage .The customer's needs is the goal of our effort .

We have excellent engineer in research and development . We have all the core technology and independent intellectual property rights in the fully electric injection molding machine machine control and system solutions .

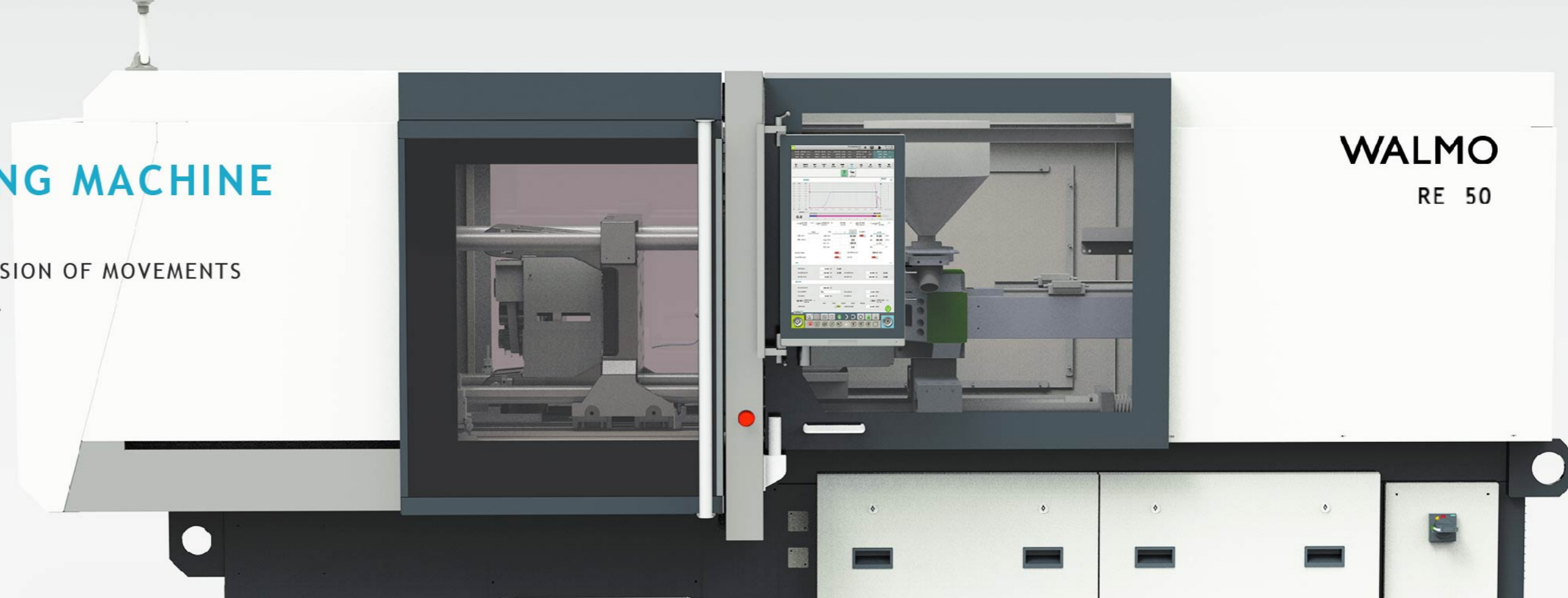


FULLY ELECTRIC INJECTION MOLDING MACHINE

REAL SERIES MACHINE HAS SUPER HIGH REPRODUCIBILITY AND PRECISION OF MOVEMENTS THANKS TO THE HIGH-SPEED CPU AND REAL-TIME FIELD BUS SYSTEM.

WALMO

RE 50



Stability

The extreme motion control technology and servo system, make injection resolution up to 0.01mm, weight offset less than 0.01g. Swiss made Loadcell and High dynamic injection unit with optimization pressure close loop algorithm. High grade electric and pneumatic parts, Strengthening mechanical structure, make higher production quality.

Long life time

Intelligent mold protection, reduce the risk of mold crush. Close loop trajectory of axis movements, reduce mechanical wear. Close loop torque control, protect mold and reduce loss. Capacitive touch screen, Ultra long life time.

Economy

Advanced intelligent servo driver system, low loss mechanical structure, optimization barrel heating and designed machine Heat dissipation structure. Fully servo motor drive directly, without inertia and without oil as medium, power consumption down to 0.3kwh/ kg. High dynamic and precision injection movements, less product weight over 6% as conventional hydraulic machine.

Clean

All driven by servo motor, no hydraulic components and oil. Japan import ball screw and linear guides ensure the long life and clean. Industry standards LUBE professional lubrication system.

Productivity

Machine equipped compress injection, ejector during mold opening and some other parallel movements. may effectively shorten the cycle time. Free programmable process sequence representation of any production process. High speed servo motor and optimized system design for extremely short cycle times and maximum productivity due to the consistent quality of parts. Large tie-bar space, long ejector range, comply Chinese standard and Europe standard mold plate, save a lot production preparation time.

Innovation

Continue study the latest technology of control and motion, investment in a large number of R&D costs to has a wealth of technical reserves. Searching for the latest industry information and process features, challenge the new molding requirements. Continue developing information technology and integration technology.

THE PERFECT SOLUTION

Clamp force
50ton - 1100ton

Screw Diameter
20mm - 120mm

Injection Speed
160mm/s - 800mm/s

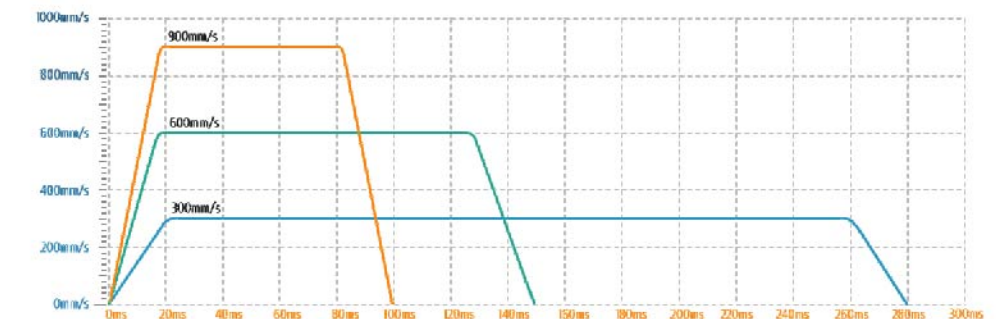
STANDARD PRODUCTS AND MULTI-COLOR

Thanks to the excellence of the motion control technology and top grade servo drive system, injection precision reach to 0.01 mm, Injection weight offset less then 0.01g. very suitable for miniaturization of advanced production with high precision and reliability requirements. Carrying ultra-high dynamic servo system, Injection speed up to 800mm/s. Can satisfy the complex geometric shapes, optical len and thin electronic parts. VICO control system can programming any special process of complex requirements, greatly reduce the development time of new products and cost.



High dynamic injection unit

Real Series designed for very high dynamic performance injection. The injection speed up to 800mm/s. acc/deacceleration up to 4.5G. Customizable higher injection speed also available.

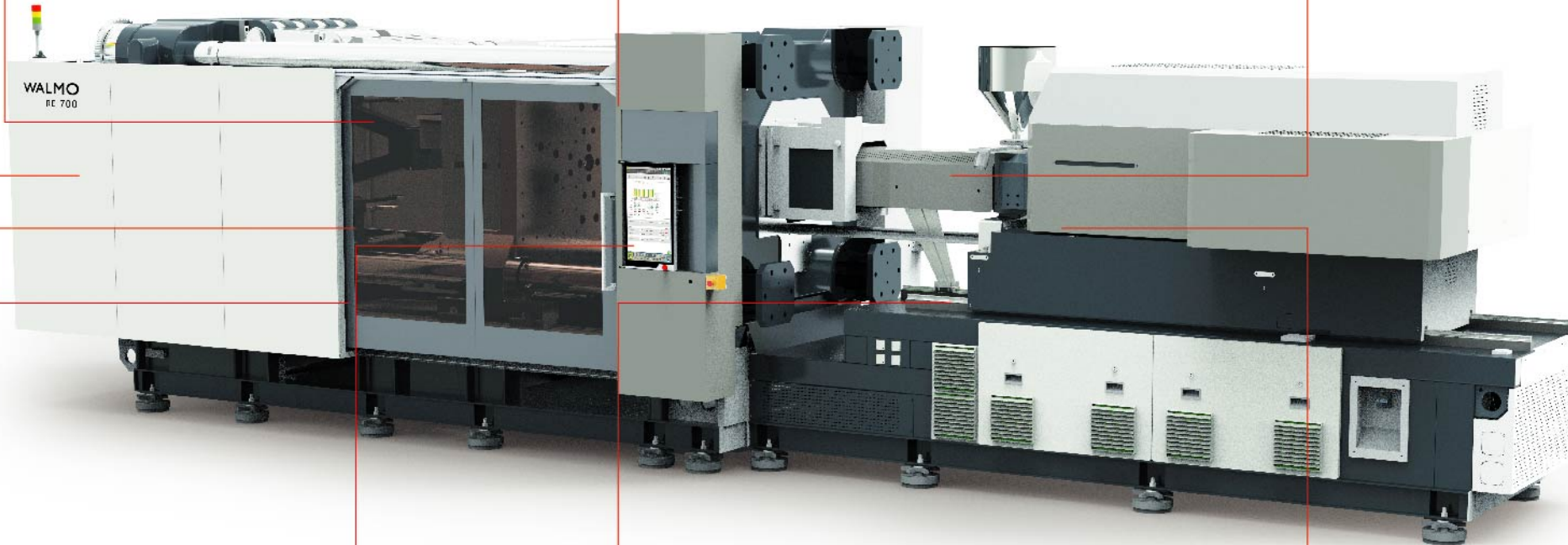


Electric clamp & ejector drivered
- Greater accuracy at location and speed

Smoothly 5-point clamping unit
- Enlarged tie bar spacing to accommodate larger moulds
- Fast and precise open and closing speeds

Chromed and untouched plated tie bars
- Corrosion resistant
- Optimal spacing for maximum mould flexibility

Bi-metallic barrel and ceramic heater bands
- Longer service life
- Better insulation increases energy efficiency



Precise ejection force control
- multi-step position and speed controled

Grease free linear platen guides
- Total platen support
- Optimal platen guidance
- Energy efficient platen movement
- Clean environment

VICO Controller
- 21.5 inch full touch screen
- sigmatek PLC control

Linear guider support platen
- No friction and lower load for precise speeds

High accuracy sensor
- almost 100% repeated accuracy

MEDICAL

Real Medical

Suitable for clean room and medical products, REAL Series design a high performance and energy saving system and carried on the comprehensive optimization of the properties of medical products, water cooling servo system, closed lubrication system, the whole machine without oil, clean and less noise.



Performance + Safety ≠ High Price

In order to increase productivity, the field of medical technology is moving more and more to the use of multi-cavity moulds with the large clamp tonnage and powerful injection unit they require. Valmo Real-E series machine are designed to meet the requirements of high-performance application. Clamp tonnage up to 550 Ton, High-dynamic injection unit speed up to 1000mm/s with multi choice screw diameter from 16mm to 90mm. Besides Real-E series injection molding machine presenting a perfect safety protection accordance with CE and UL standard. Safety Locker, Safety PLC, STO servo driver all in option.



More Productivity, Less Space

In the Display at ChinaPlas2015, Valmo Presents a 96 Cavities Syringe Needle Cover Producing. A Real-E series RE220H-630h High speed fully electric moulding machine with clean room design used in this application, cycle time 4.1s, dry cycle time down to 1.5s, it's the world first class result. Thanks to the new design of mold and ejector for fast dry cycle.



THIN-WALLED PACKAGING

Thin wall injection molding problem?

Thin-walled packaging is difficult all the time. However, the demands being placed on it are always increasing: it needs thinner, lighter and stable to produce with beautiful shape. and the most important was the parts should cost as little as possible.



We have solution, injection-compression function, a combination of both injection molding and compression molding. The melt plastic injected into mold while mold still open and subsequently distributed evenly throughout the cavity after clamping unit compressed. The injection-compression function benefits included shorten cycle time, decreased warping in the mold part, higher dimensional accuracy of parts, and more important here, we can bring higher efficiency and reduce costs. The advanced Walmo VICO control system make it possible to reduce wall thickness, reduce parts weight with

CLOSURE

Beverage closures production require a long-term stable and high-speed production, and excellent production cost control.

High speed injection molding system and high-performance clamping mechanism design provides a very short cycle time. The mould precision grade template parallelism and compact solid frame structure effectively reduce the mechanical and mold consumption. The special injection structure design and high speed plasticizing screws makes the injection rate faster. Flexible programmable function optimized the production process to achieve the shortest cycle time.

In addition to integrate a number of auxiliary functions, such as automatic feeding, 96 district hot runner controller. etc., more dash forward show excellent cost performance.

Our REAL series machines for packaging applications in the field of rigid demand is optimized, effectively shorten the production cycle, improve plasticizing rate, strengthening the protection of grinding tool, reduce the loss of mould, and labor saving. Can be widely used with high productivity, high consistency and low operation cost.

 **3.2s**

Real-P 350 -1000h with 2925 72Cavities CAP Mold
It's the first Real-P series machine. The cycle time is 3.2 seconds.

 **2.4s**

Real-P 220 -1000h with 3025 32Cavities CAP Mold
It's the fastest Real-P series machine. The cycle time is shorter than 2.4seconds.

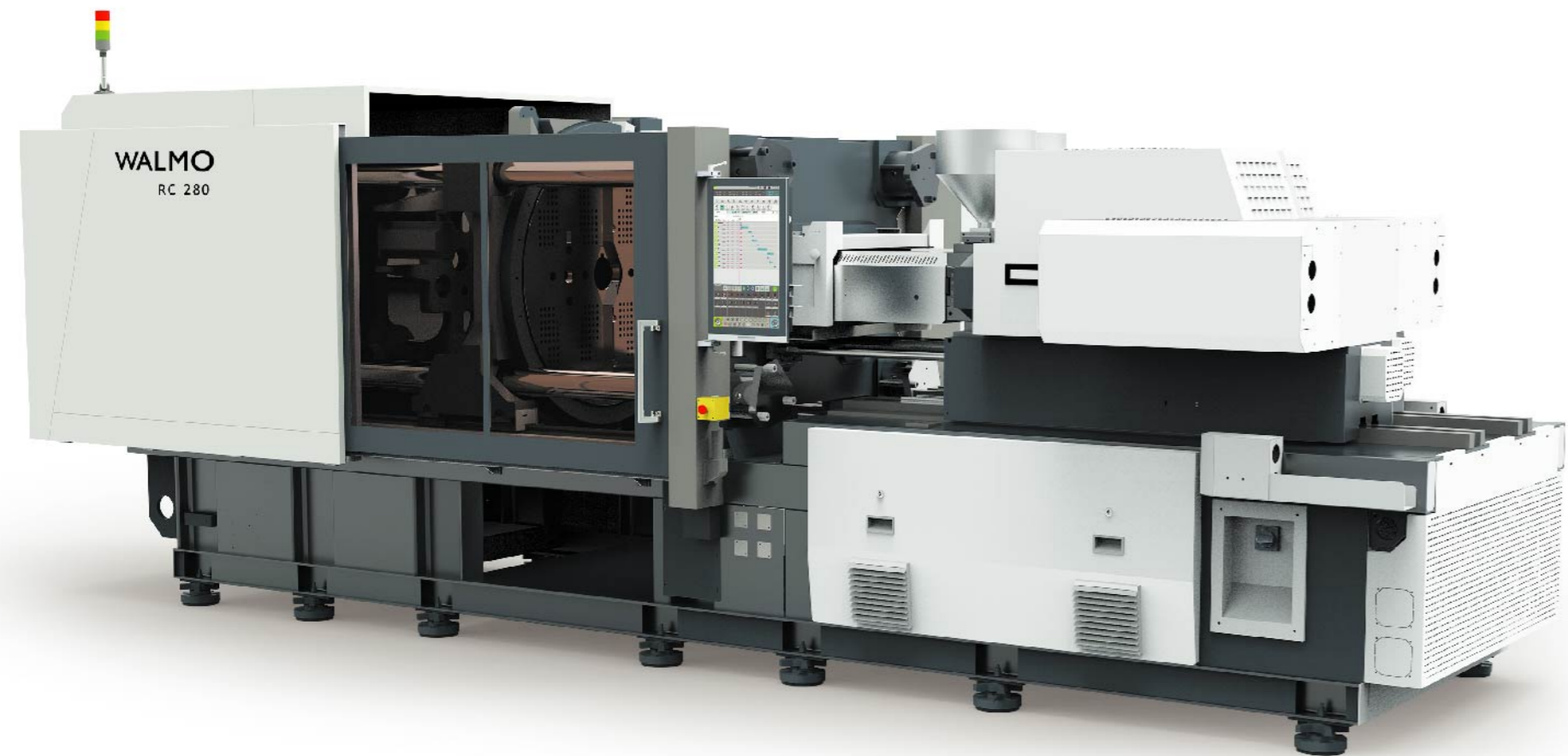
 **1.2s**

Real-P 220H -630h with 96Cavities Syringe Cover Mold
It's the fastest dry cycle time machine.



DUO OR MULTI-INJECTION SYSTEM

Multi-Injection system can be adapted to existing mold technology and infrastructure. Through mixes use of different type of second unit can be achieved multi-color injection process.



DUO OR MULTI-INJECTION SYSTEM

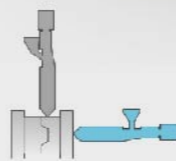
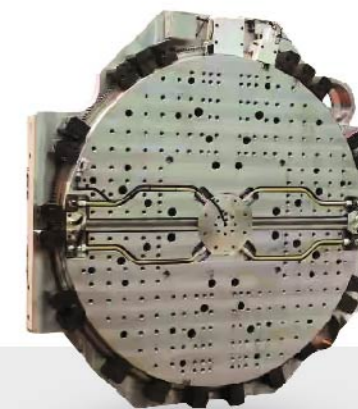
L-Injection Unit



V-Injection Unit



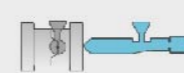
Turn Table



Vertical position



Piggyback position



Non-operator side

Sliding table process

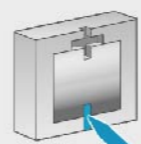


step1
Injection of component 1, and move core side to cavity2

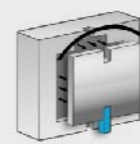


step2
Injection of component 2

Index process



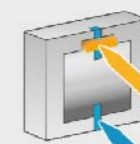
step1
Injection of component 1



step2
Lifting index platen, turning 180degree



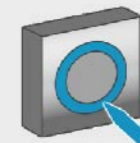
step3
Pull-back of index platen



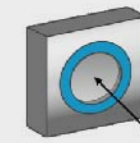
step4
Injection of component 2
Simultaneous injection of the next substrate

Cavity separation process

The mold usually remains closed for this operation, and mold is compact and inexpensive



step1
Injection of component 1



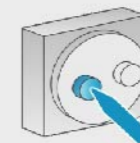
step2
Pull-back the slide



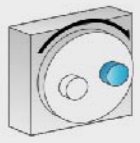
step3
Injection of component 2

Turntable process

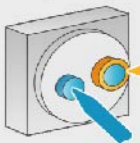
The number of rotation could up to 4, and this is the most widely used multi-component process



step1
Injection of component 1



step2
Rotation the mold



step3
Injection of component 2
Simultaneous injection of component 1

SPECIFICATION REAL-COLOR180

MODEL	RC180						
Clamp unit	RC180						
Clamp force	ton	180					
Locking force	ton	190					
Clamp stroke	mm	440					
Total daylight max	mm	990					
Min mold height	mm	180					
Max mold height	mm	550					
Distance between tiebars (H x V)	mm	740X450					
Table diameter	mm	830					
Max mold diameter	mm	900					
Ejector force	ton	4X2					
Ejector stroke	mm	180					
Platen size (H x V)	mm	1000X790					
Distance Between Molds Positioning Centers	mm	400					
Injection unit	160H		290H				
Screw diameter	mm	18	25	30	30	35	40
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	130	130	130	165	165	165
Injection unit stroke	mm	320	320	320	350	350	350
Shot weight Max. (PS)	gm	28.3	55	78.8	104	141.6	185
Theoretical shot volume	cc	32	61	88	116	158	207
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	76	146	211	211	287	376
Injection pressure	bar	3000	2700	1900	2500	2000	1600
Holding pressure	bar	2400	2160	1520	2000	1600	1280
Screw torque	Nm	160	160	160	240	240	240
Screw speed	rpm	350	350	350	350	350	350
Plasticizing rate (PS)	gm/s	3.8	9	13	18	24	31
Nozzle contact pressure	ton	2.5	2.5	2.5	3	3	3
Total heat capacity	kW	6	7	7	13	13	13
General							
Total connected power	kw	25.3	25.3	25.3	28	28	28
Machine dimension (L x W x H)	m	5.6X1.65X1.83			5.6X1.65X1.83		
Machine weight	ton	11.5			12		

SPECIFICATION REAL-COLOR230

MODEL	RC230						
Clamp unit	RC230						
Clamp force	ton	230					
Locking force	ton	245					
Clamp stroke	mm	490					
Total daylight max	mm	1190					
Min mold height	mm	200					
Max mold height	mm	700					
Distance between tiebars (H x V)	mm	960X680					
Table diameter	mm	1050					
Max mold diameter	mm	1218					
Ejector force	ton	4X2					
Ejector stroke	mm	200					
Platen size (H x V)	mm	1340X1100					
Distance Between Molds Positioning Centers	mm	500					
Injection unit	290H		490H				
Screw diameter	mm	30	35	40	35	40	45
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	165	165	165	190	190	190
Injection unit stroke	mm	350	350	350	450	450	450
Shot weight Max. (PS)	gm	104	141.6	185	158.7	207	262
Theoretical shot volume	cc	116	158	207	177.9	232	294
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	211	287	376	287	376	476
Injection pressure	bar	2500	2000	1600	2500	2000	1650
Holding pressure	bar	2000	1600	1280	2000	1600	1320
Screw torque	Nm	240	240	240	500	500	500
Screw speed	rpm	350	350	350	300	300	300
Plasticizing rate (PS)	gm/s	18	24	31	27	40	42.5
Nozzle contact pressure	ton	3	3	3	3.5	3.5	3.5
Total heat capacity	kW	13	13	13	17	17	17
General							
Total connected power	kw	45	45	45	53	53	53
Machine dimension (L x W x H)	m	6.0X2.0X2.0			6.25X2.0X2.0		
Machine weight	ton	14.5			15		

SPECIFICATION REAL-COLOR280

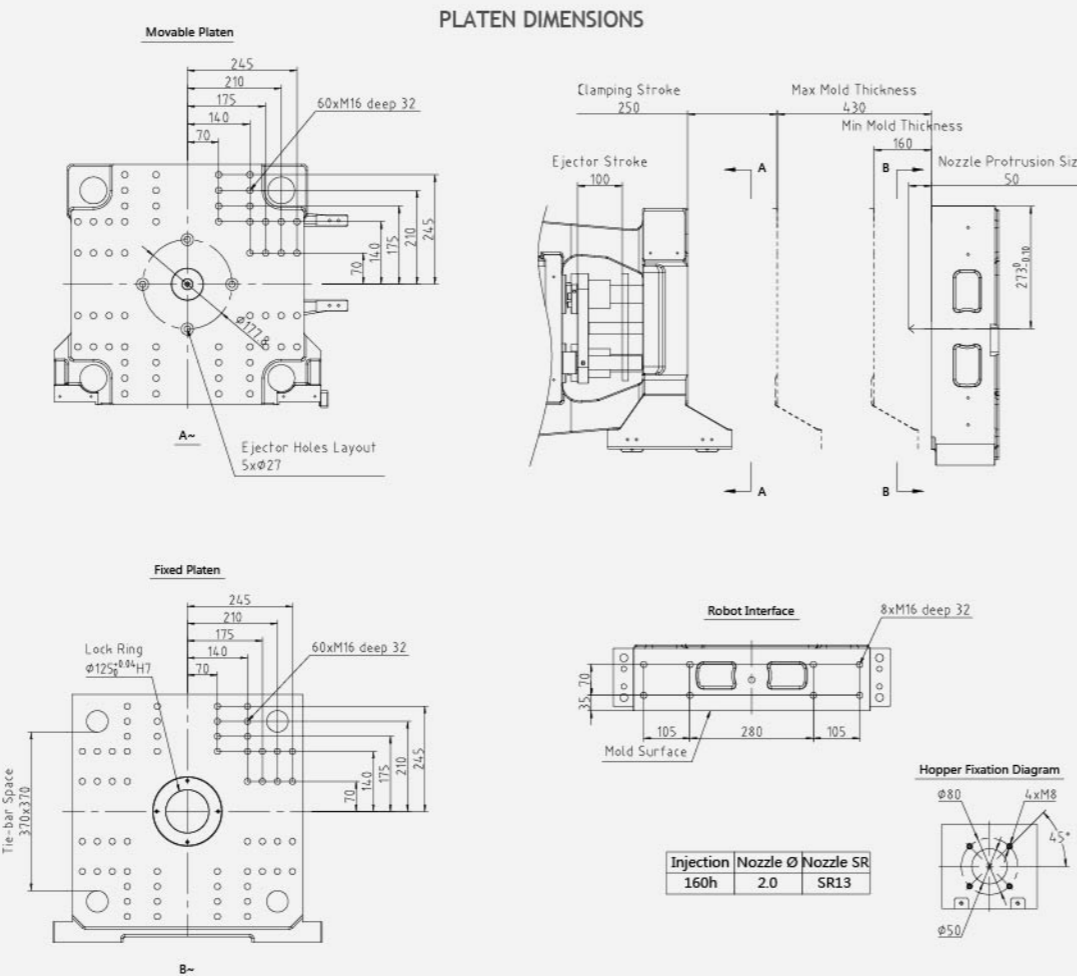
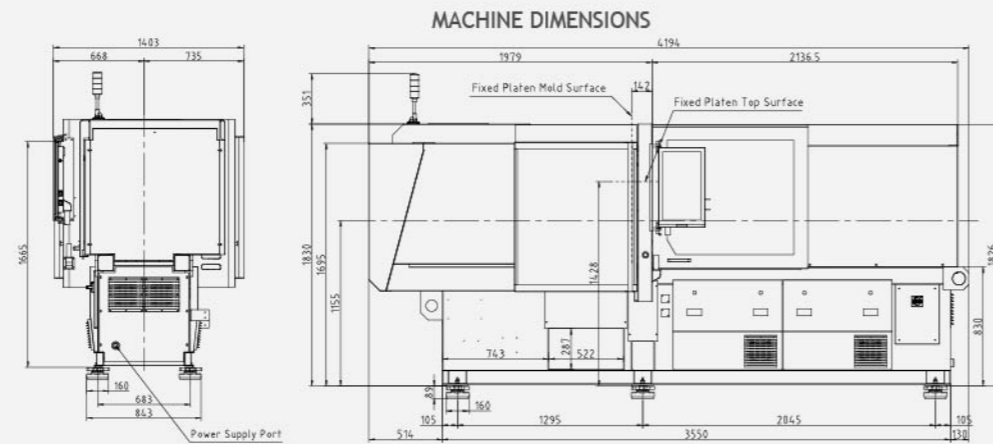
MODEL	RC280						
Clamp unit	RC280						
Clamp force	ton	280					
Locking force	ton	300					
Clamp stroke	mm	490					
Total daylight max	mm	1190					
Min mold height	mm	200					
Max mold height	mm	700					
Distance between tiebars (H x V)	mm	960X680					
Table diameter	mm	1050					
Max mold diameter	mm	1218					
Ejector force	ton	4X2					
Ejector stroke	mm	200					
Platen size (H x V)	mm	1340X1100					
Distance Between Molds Positioning Centers	mm	500					
Injection unit	290H		490H				
Screw diameter	mm	30	35	40	35	40	45
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	165	165	165	190	190	190
Injection unit stroke	mm	350	350	350	450	450	450
Shot weight Max. (PS)	gm	104	141.6	185	158.7	207	262
Theoretical shot volume	cc	116	158	207	177.9	232	294
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	211	287	376	287	376	476
Injection pressure	bar	2500	2000	1600	2500	2000	1650
Holding pressure	bar	2000	1600	1280	2000	1600	1320
Screw torque	Nm	240	240	240	500	500	500
Screw speed	rpm	350	350	350	300	300	300
Plasticizing rate (PS)	gm/s	18	24	31	27	40	42.5
Nozzle contact pressure	ton	3	3	3	3.5	3.5	3.5
Total heat capacity	kW	13	13	13	17	17	17
General							
Total connected power	kw	45	45	45	53	53	53
Machine dimension (L x W x H)	m	6.0X2.0X2.0			6.25X2.0X2.0		
Machine weight	ton	14.5			15		

SPECIFICATION REAL-COLOR400

MODEL	RC400						
Clamp unit	RC400						
Clamp force	ton	400					
Locking force	ton	420					
Clamp stroke	mm	610					
Total daylight max	mm	1360					
Min mold height	mm	220					
Max mold height	mm	750					
Distance between tiebars (H x V)	mm	1150X650					
Table diameter	mm	1270					
Max mold diameter	mm	1360					
Ejector force	ton	6.5X2					
Ejector stroke	mm	220					
Platen size (H x V)	mm	1520X1030					
Distance Between Molds Positioning Centers	mm	550					
Injection unit	490H			630H			
Screw diameter	mm	35	40	45	40	45	50
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	190	190	190	210	210	210
Injection unit stroke	mm	450	450	450	450	450	450
Shot weight Max. (PS)	gm	158.7	207	262	230	290	359
Theoretical shot volume	cc	177.9	232	294	257	325	402
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	287	376	476	376	476	588
Injection pressure	bar	2500	2000	1650	2450	1950	1600
Holding pressure	bar	2000	1600	1320	1960	1560	1280
Screw torque	Nm	500	500	500	500	500	500
Screw speed	rpm	300	300	300	300	300	300
Plasticizing rate (PS)	gm/s	27	40	42.5	40	46	55
Nozzle contact pressure	ton	3.5	3.5	3.5	3.5	3.5	3.5
Total heat capacity	kW	17	17	17	17.5	17.5	17.5
General							
Total connected power	kw	68	68	68	69	69	69
Machine dimension (L x W x H)	m	7.7X2.2X2.1			7.7X2.2X2.1		
Machine weight	ton	19.5			19.5		

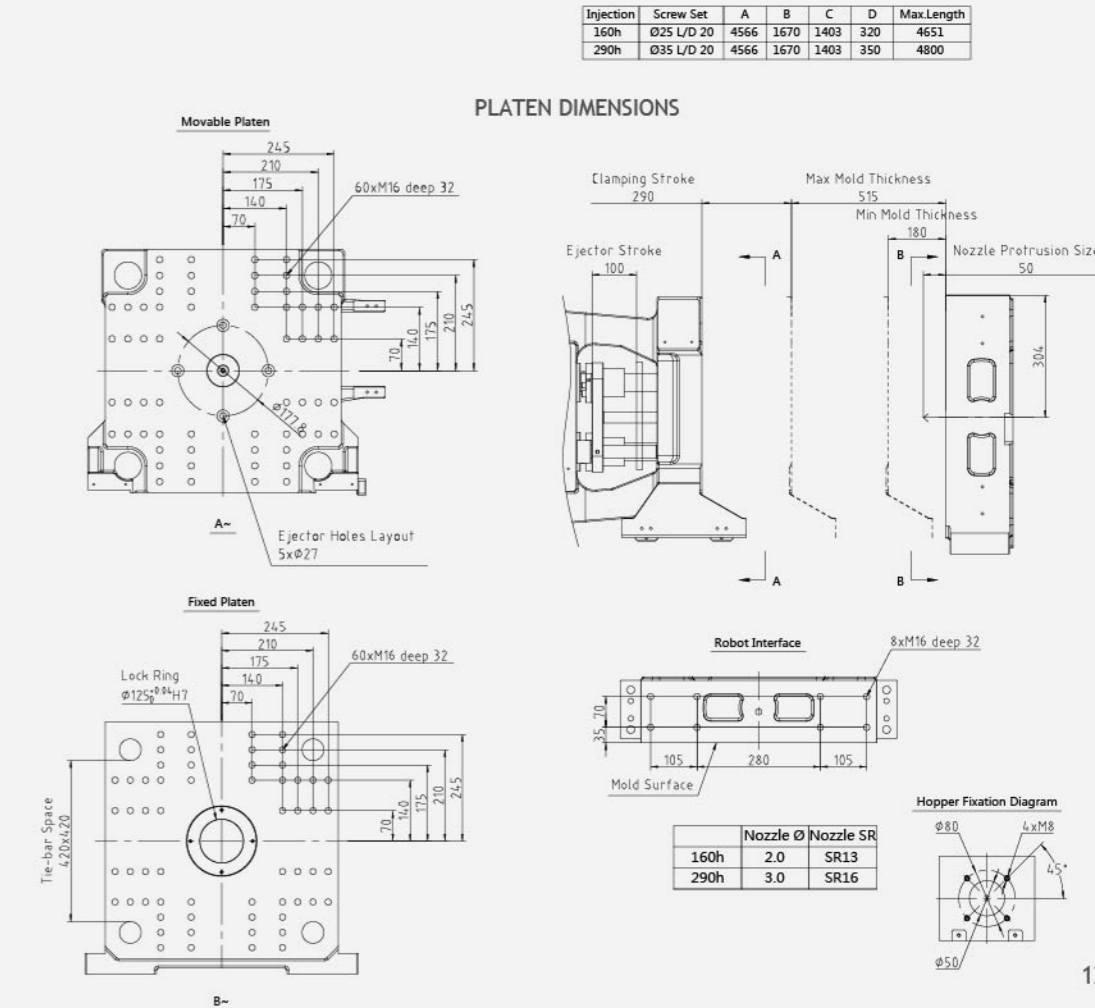
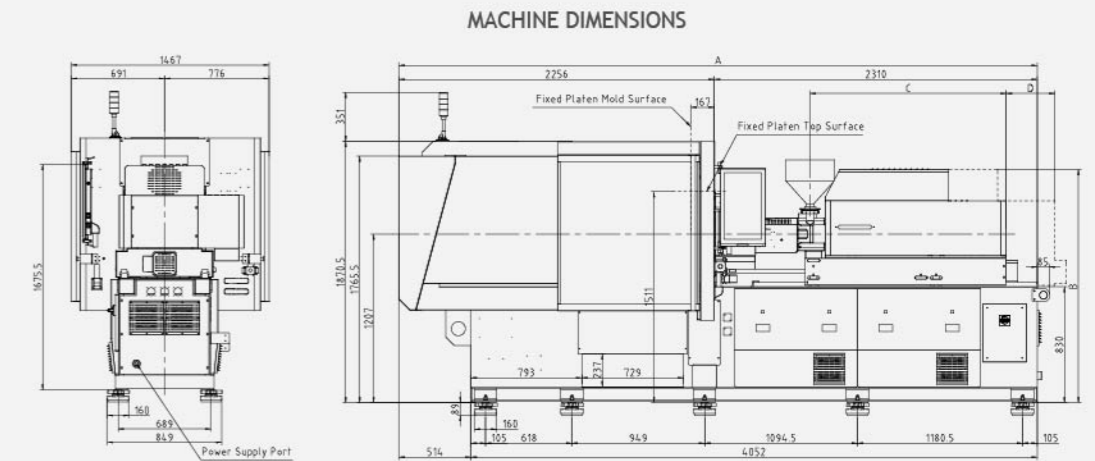
SPECIFICATION REAL-E50

MODEL	RE50			
Clamp unit	RE50			
Clamp force	ton	50		
Locking force	ton	55		
Clamp stroke	mm	250		
Total daylight max	mm	680		
Min mold height	mm	160		
Max mold height	mm	430		
Distance between tiebars (H x V)	mm	370x370		
Ejector force	ton	2		
Ejector stroke	mm	100		
Platen size (H x V)	mm	520x535		
Injection unit	160H			
Screw diameter	mm	18	25	30
Screw L/D ratio		22	20	18
Screw stroke	mm	130	130	130
Injection unit stroke	mm	320	320	320
Shot weight Max. (PS)	gm	29	55	78.8
Theoretical shot volume	cc	32	61	88
Injection speed	mm/s	300	300	300
Injection rate	cc/sec	76	146	211
Injection pressure	bar	3000	2700	1900
Holding pressure	bar	2400	2160	1520
Screw torque	Nm	160	160	160
Screw speed	rpm	350	350	350
Plasticizing rate (PS)	gm/s	3.8	9	13
Nozzle contact pressure	ton	2.5	2.5	2.5
Total heat capacity	kW	6	7	7
General				
Total connected power	kw	12	13	13
Machine dimension (L x W x H)	m	4.2X1.4X1.8		
Machine weight	ton	4		



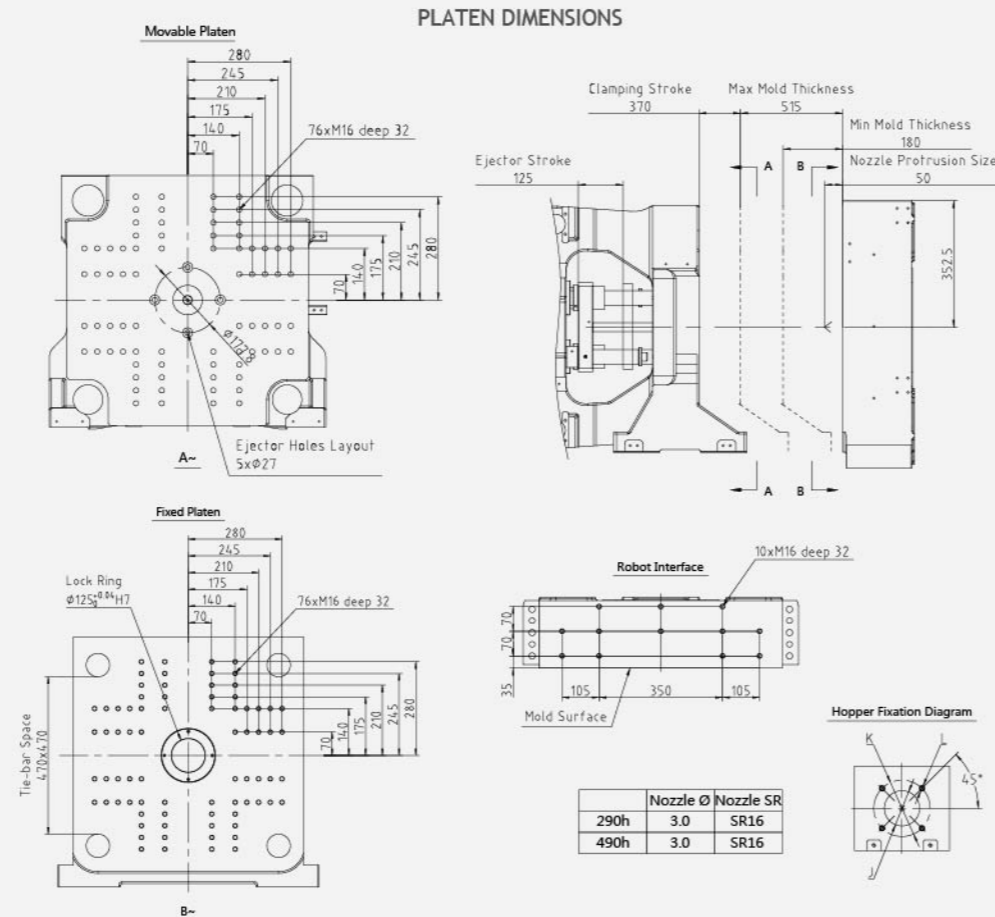
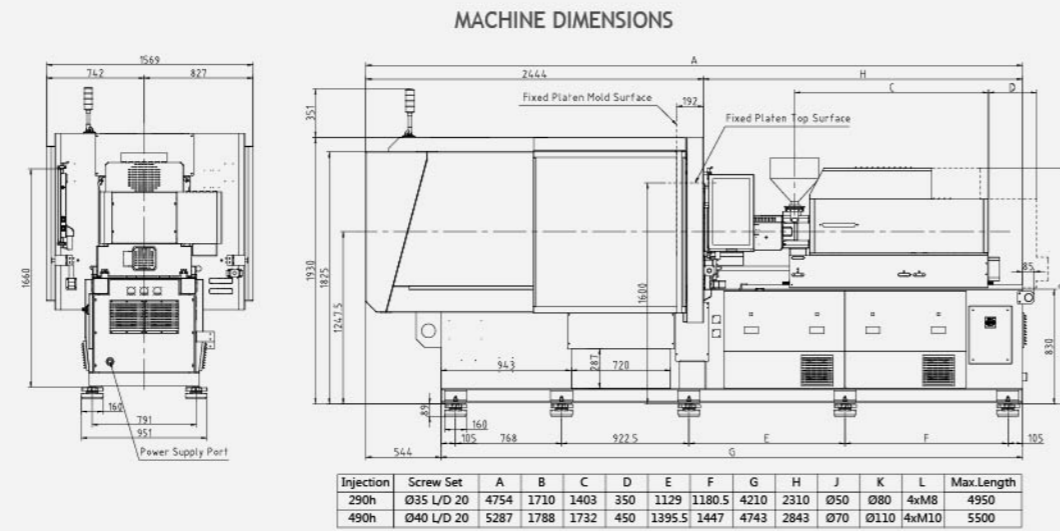
SPECIFICATION REAL-E80

MODEL	RE80						
Clamp unit	RE80						
Clamp force	ton	80					
Locking force	ton	85					
Clamp stroke	mm	290					
Total daylight max	mm	805					
Min mold height	mm	180					
Max mold height	mm	515					
Distance between tiebars (H x V)	mm	420X420					
Ejector force	ton	2					
Ejector stroke	mm	100					
Platen size (H x V)	mm	580X595					
Injection unit	160H		290H				
Screw diameter	mm	18	25	30	30	35	40
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	130	130	130	165	165	165
Injection unit stroke	mm	320	320	320	350	350	350
Shot weight Max. (PS)	gm	28.3	55	78.8	104	141.6	185
Theoretical shot volume	cc	32	61	88	116	158	207
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	76	146	211	211	287	376
Injection pressure	bar	3000	2700	1900	2500	2000	1600
Holding pressure	bar	2400	2160	1520	2000	1600	1280
Screw torque	Nm	160	160	160	240	240	240
Screw speed	rpm	350	350	350	350	350	350
Plasticizing rate (PS)	gm/s	3.8	9	13	18	24	31
Nozzle contact pressure	ton	2.5	2.5	2.5	3	3	3
Total heat capacity	kW	6	7	7	13	13	13
General							
Total connected power	kw	17	18.3	18	28	28	28
Machine dimension (L x W x H)	m	4.6X1.5X1.9		4.6X1.5X1.9			
Machine weight	ton	4.2		4.4			



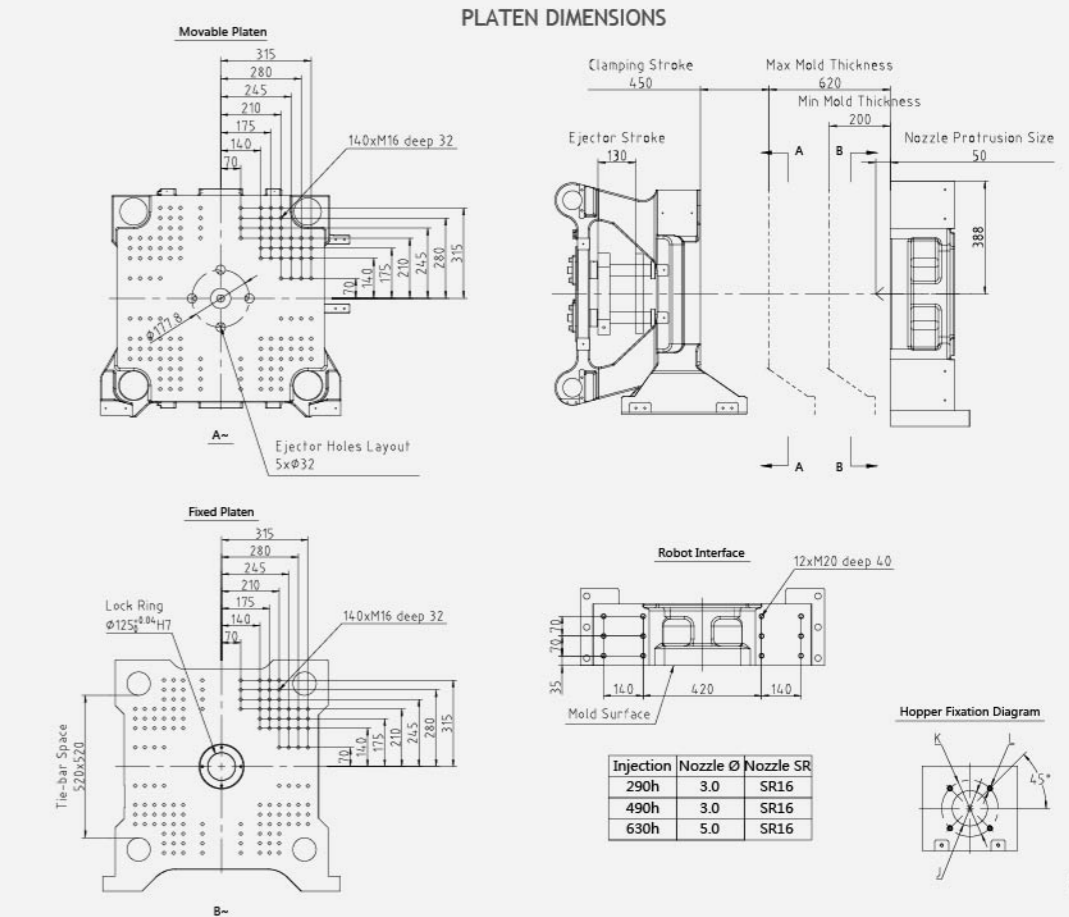
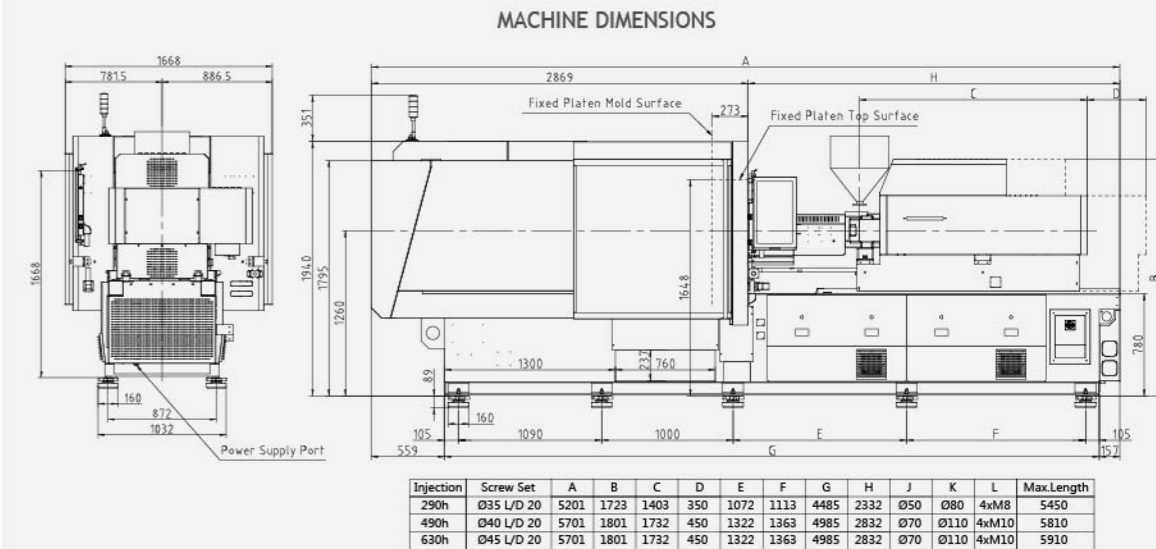
SPECIFICATION REAL-E120

MODEL	RE120						
Clamp unit	RE120						
Clamp force	ton	120					
Locking force	ton	125					
Clamp stroke	mm	370					
Total daylight max	mm	885					
Min mold height	mm	180					
Max mold height	mm	515					
Distance between tiebars (H x V)	mm	470X470					
Ejector force	ton	2.5					
Ejector stroke	mm	125					
Platen size (H x V)	mm	655X680					
Injection unit	290H		490H				
Screw diameter	mm	30	35	40	35	40	45
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	165	165	165	190	190	190
Injection unit stroke	mm	350	350	350	450	450	450
Shot weight Max. (PS)	gm	104	141.6	185	158.7	207	262
Theoretical shot volume	cc	116	158	207	177.9	232	294
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	211	287	376	287	376	476
Injection pressure	bar	2500	2000	1600	2500	2000	1650
Holding pressure	bar	2000	1600	1280	2000	1600	1320
Screw torque	Nm	240	240	240	500	500	500
Screw speed	rpm	350	350	350	300	300	300
Plasticizing rate (PS)	gm/s	18	24	31	27	40	42.5
Nozzle contact pressure	ton	3	3	3	3.5	3.5	3.5
Total heat capacity	kW	13	13	13	17	17	17
General							
Total connected power	kw	28	28	28	33	33	33
Machine dimension (L x W x H)	m	4.8X1.6X2			5.3X1.6X2		
Machine weight	ton	5.2			5.8		



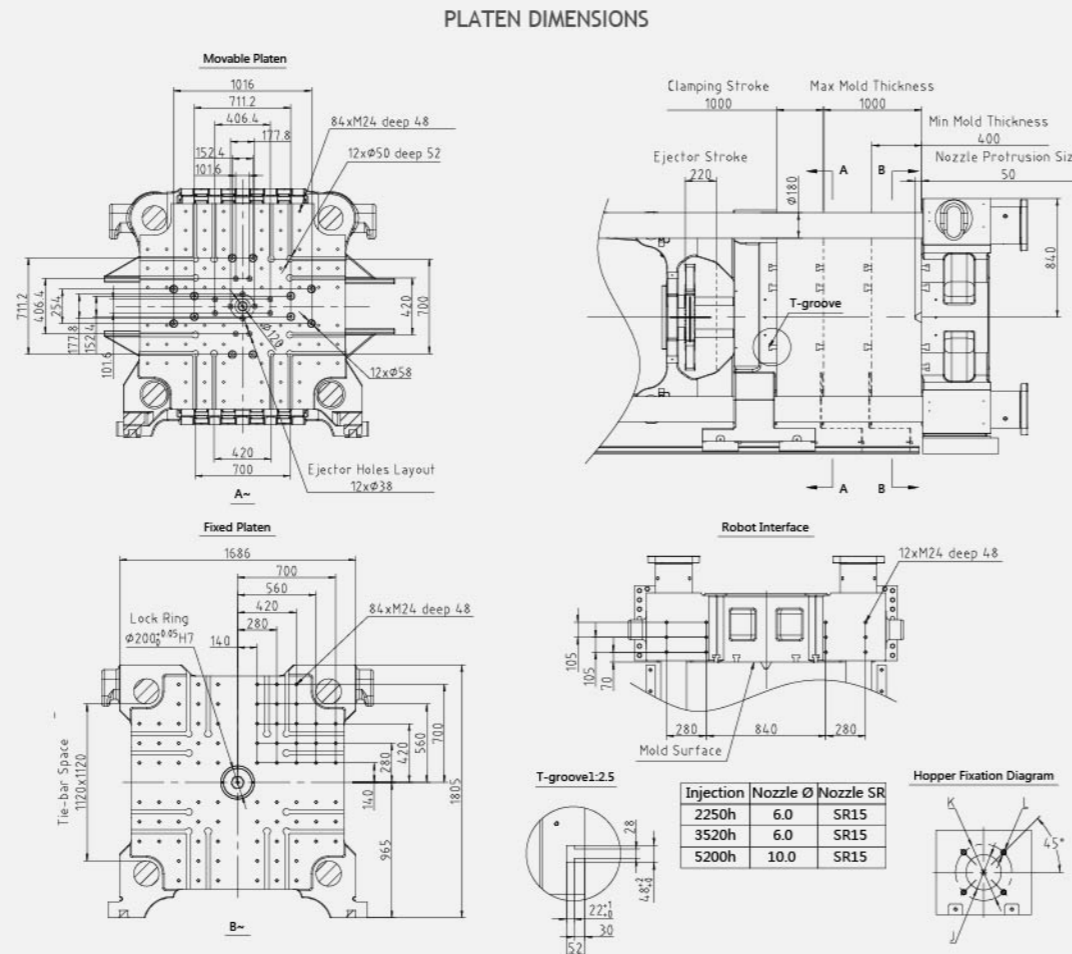
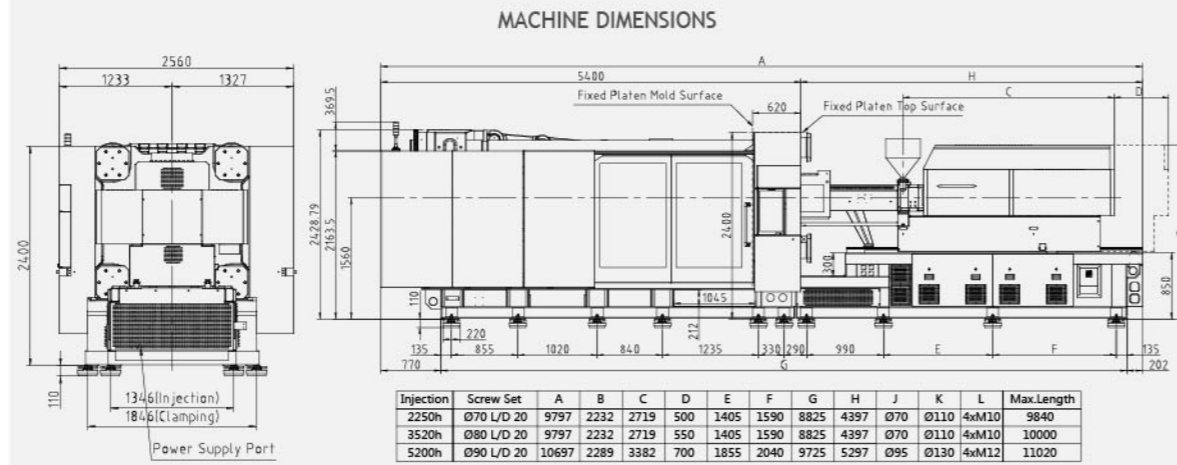
SPECIFICATION REAL-E150

MODEL	RE150						
Clamp unit	RE150						
Clamp force	ton	150					
Locking force	ton	155					
Clamp stroke	mm	450					
Total daylight max	mm	1070					
Min mold height	mm	200					
Max mold height	mm	620					
Distance between tiebars (H x V)	mm	520X520					
Ejector force	ton	3					
Ejector stroke	mm	130					
Platen size (H x V)	mm	720X720					
Injection unit	490H			630H			
Screw diameter	mm	35	40	45	40	45	50
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	190	190	190	210	210	210
Injection unit stroke	mm	450	450	450	450	450	450
Shot weight Max. (PS)	gm	158.7	207	262	230	290	359
Theoretical shot volume	cc	177.9	232	294	257	325	402
Injection speed	mm/s	300	300	300	300	300	300
Injection rate	cc/sec	287	376	476	376	476	588
Injection pressure	bar	2500	2000	1650	2450	1950	1600
Holding pressure	bar	2000	1600	1320	1960	1560	1280
Screw torque	Nm	500	500	500	500	500	500
Screw speed	rpm	300	300	300	300	300	300
Plasticizing rate (PS)	gm/s	27	40	42.5	40	46	55
Nozzle contact pressure	ton	3.5	3.5	3.5	3.5	3.5	3.5
Total heat capacity	kW	17	17	17	17.5	17.5	17.5
General							
Total connected power	kw	33	33	33	34	34	34
Machine dimension (L x W x H)	m	5.7X1.7X2			5.7X1.7X2		
Machine weight	ton	7.5			8		



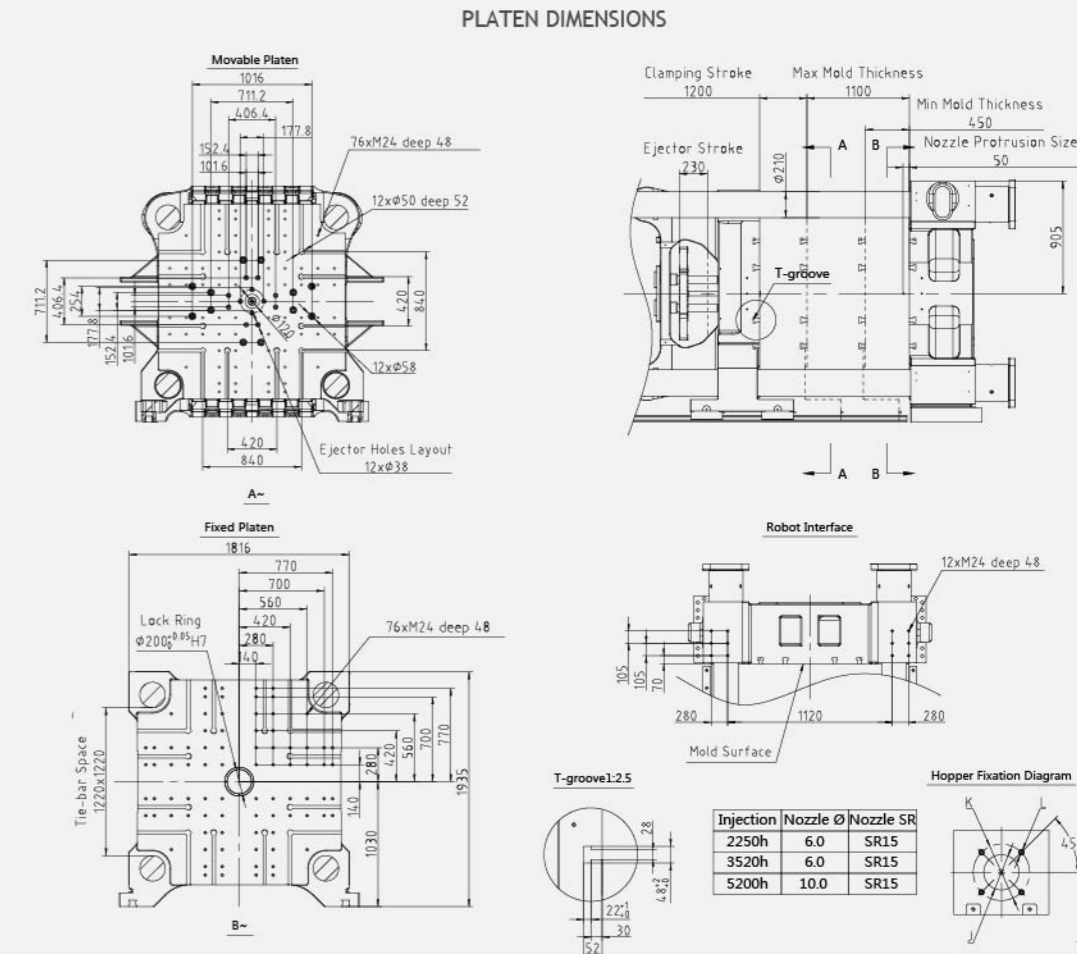
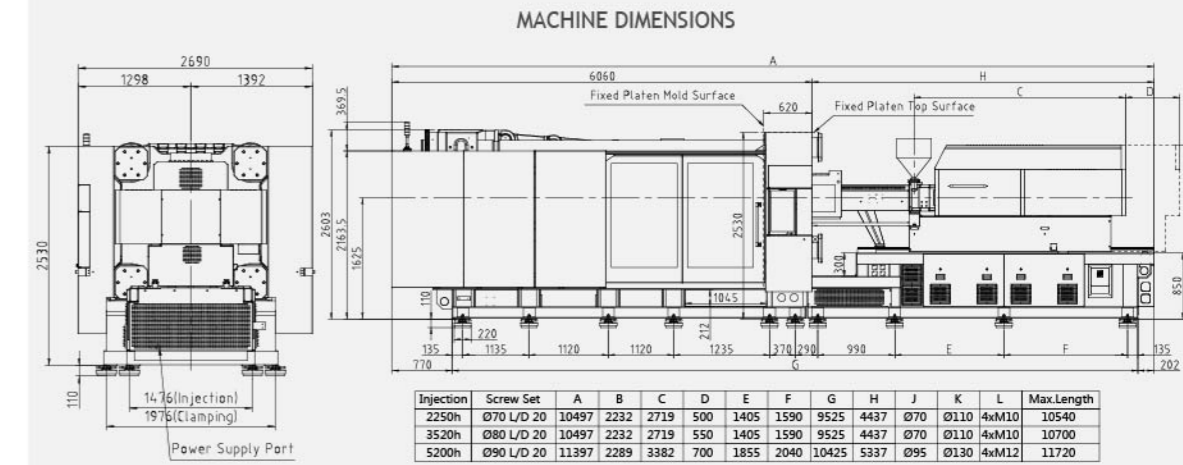
SPECIFICATION REAL-E700

MODEL	RE700						
Clamp unit	RE700						
Clamp force	ton	700					
Locking force	ton	730					
Clamp stroke	mm	1000					
Total daylight max	mm	2000					
Min mold height	mm	400					
Max mold height	mm	1000					
Distance between tiebars (H x V)	mm	1120X1120					
Ejector force	ton	20					
Ejector stroke	mm	220					
Platen size (H x V)	mm	1580X1580					
Injection unit	3520			5200			
Screw diameter	mm	70	80	90	80	90	100
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	370	370	370	450	450	450
Injection unit stroke	mm	550	550	550	700	700	700
Shot weight Max. (PS)	gm	1350	1766	2235	2055	2606	3215
Theoretical shot volume	cc	1420	1852	2353	2262	2863	3534
Injection speed	mm/s	160	160	160	160	160	160
Injection rate	cc/sec	616	804	1018	804	1018	1206
Injection pressure	bar	2400	1900	1500	2270	1792	1450
Holding pressure	bar	1920	1520	1200	1800	1430	1160
Screw torque	Nm	2000	2000	2000	2400	2400	2400
Screw speed	rpm	250	250	250	250	250	250
Plasticizing rate (PS)	gm/s	70	88	100	80	100	122
Nozzle contact pressure	ton	8	8	8	8	8	8
Total heat capacity	kW	52	52	52	69	69	69
General							
Total connected power	kw	125	125	125	160	160	160
Machine dimension (L x W x H)	m	10.4X2.6X2.7			11X2.6X2.7		
Machine weight	ton	42			44		



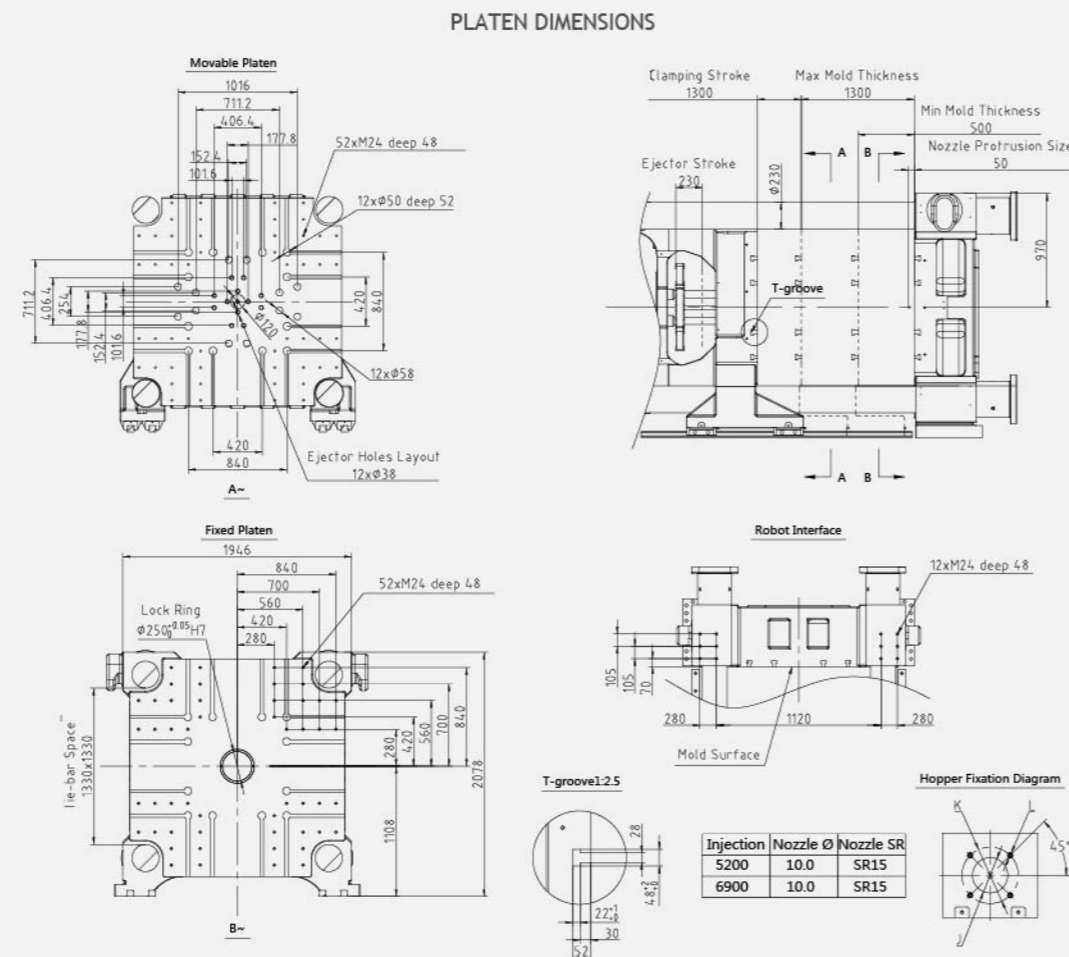
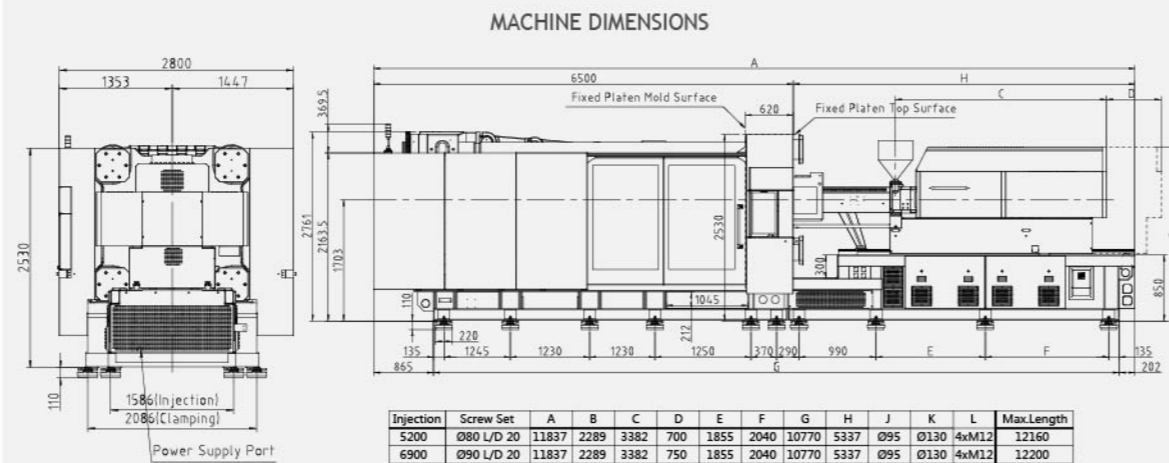
SPECIFICATION REAL-E900

MODEL	RE900						
Clamp unit	RE900						
Clamp force	ton	900					
Locking force	ton	930					
Clamp stroke	mm	1200					
Total daylight max	mm	2300					
Min mold height	mm	450					
Max mold height	mm	1100					
Distance between tiebars (H x V)	mm	1220X1220					
Ejector force	ton	24					
Ejector stroke	mm	230					
Platen size (H x V)	mm	1710X1710					
Injection unit	3520			5200			
Screw diameter	mm	70	80	90	80	90	100
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	370	370	370	450	450	450
Injection unit stroke	mm	550	550	550	700	700	700
Shot weight Max. (PS)	gm	1350	1766	2235	2055	2606	3215
Theoretical shot volume	cc	1420	1852	2353	2262	2863	3534
Injection speed	mm/s	160	160	160	160	160	160
Injection rate	cc/sec	616	804	1018	804	1018	1206
Injection pressure	bar	2400	1900	1500	2270	1792	1450
Holding pressure	bar	1920	1520	1200	1800	1430	1160
Screw torque	Nm	2000	2000	2000	2400	2400	2400
Screw speed	rpm	250	250	250	250	250	250
Plasticizing rate (PS)	gm/s	70	88	100	80	100	122
Nozzle contact pressure	ton	8	8	8	8	8	8
Total heat capacity	kW	52	52	52	69	69	69
General							
Total connected power	kw	125	125	125	160	160	160
Machine dimension (L x W x H)	m	12X2.9X2.9			12X2.9X2.9		
Machine weight	ton	53			55		



SPECIFICATION REAL-E1100

MODEL	RE1100						
Clamp unit	RE1100						
Clamp force	ton	1100					
Locking force	ton	1130					
Clamp stroke	mm	1300					
Total daylight max	mm	2600					
Min mold height	mm	500					
Max mold height	mm	1300					
Distance between tiebars (H x V)	mm	1330X1330					
Ejector force	ton	24					
Ejector stroke	mm	230					
Platen size (H x V)	mm	1920X1920					
Injection unit	5200		6900				
Screw diameter	mm	80	90	100	90	100	110
Screw L/D ratio		22	20	18	22	20	18
Screw stroke	mm	450	450	450	470	470	470
Injection unit stroke	mm	700	700	700	750	750	750
Shot weight Max. (PS)	gm	2055	2606	3215	2720	3360	4065
Theoretical shot volume	cc	2262	2863	3534	2990	3690	4468
Injection speed	mm/s	160	160	160	160	160	160
Injection rate	cc/sec	804	1018	1206	1018	1206	1396
Injection pressure	bar	2270	1792	1450	2400	1980	1638
Holding pressure	bar	1800	1430	1160	1920	1580	1310
Screw torque	Nm	2400	2400	2400	3000	3000	3000
Screw speed	rpm	250	250	250	160	160	160
Plasticizing rate (PS)	gm/s	80	100	122	100	122	147
Nozzle contact pressure	ton	8	8	8	10	10	10
Total heat capacity	kW	69	69	69	85	85	85
General							
Total connected power	kw	160	160	160	175	175	175
Machine dimension (L x W x H)	m	12.8X3.2X2.9			12.8X3.2X2.9		
Machine weight	ton	70			72		



CONFIGURATION TABLE

Clamping Unit

- 5-Points toggle lever system
- Clamp movement via screw and belt drive
- 6 adjustable open and close speeds
- Clamping force adjustable
- Precise positioning, speed and force control
- High sensitivity mold protection with two stages
- Automatic lubrication
- Actual tonnage display on HMI
- Linear guide for moving platen
- Hydraulic or pneumatic core pull
- 3 Air valve (2 in moving platen, 1 in fixed platen)
- High speed air valves
- Close-loop clamp tonnage control
- Duo color or multi color turntable
- Duo color index
- Open mold during cooling
- Open mold during charging
- Products drop check
- Oil drip pan
- Mold safety device

Ejector

- Ejector movement via screw and belt drive
- 3 Stage ejector movement speed adjustable
- Ejector vibration 1-99 times adjustable
- Ejector back end sensor
- Ejector torque protection
- Ejector back end position adjustable
- Ejector forward delay
- Ejector holding
- Mold setting mode available
- Ejector during mold opening
- Ejector when mold closed (cut cold runner)

Injection unit

- 3 different screw diameters available for each injection unit type
- Bimetallic barrel and hardened screw
- Barrel cover with perforated metal
- Injection movement via ball screw and belt drive
- Ultra-high speed injection
- 10 Stages injection movement speed adjustable
- 6 Stages pressure holding adjustable
- 3 Stages rotate speed and backpressure adjustable in plasticizing
- Stronger holding for more holding pressure and longer holding time
- Screw rotate speed display
- Screw suckback and pre- suckback

Injection unit

- Screw cold start protection
- Auto purge
- Compress injection
- Two-stages plunger system
- Shut-off nozzle
- Hopper with temperature control
- Material hopper
- Adapter plate for coloring unit and hopper loader
- Slide hopper loader
- Coloring control unit
- Long nozzle
- Injection safety protection
- Injection delay
- Charge delay
- 4 VP transfer mode selection
- Nozzle contact force adjustable
- Ceramic barrel heater
- Automatic heating start and shutdown
- Actual current and energy display of every heating zone
- Heating zone and thermocouple failure detection
- Heating standby
- Zones heating up synchronous
- Nozzle contact force monitor
- Controller

Ejector

- High performance PLC system
- 21.5inch full color LCD with capacitive touch
- Various interface for external devices, like Ethernet, USB, HDMI, CAN
- USB storage
- Keypad with limitation, and tips
- 10000 lines of alarms and operation log
- 10000 groups product data records
- 10000 process data files saved
- Full free programmable process sequence
- Use ID and Password to login the system
- Multi-language
- SPC products data analyzer
- SCADA machine status data records
- Remote diagnostics, software upgrade, technical supports
- Print screen and save
- Centralized control
- Breakdown analyzer
- Multi unit
- Energy meter
- Hot runner controller
- I/O check and status
- Quality criteria and statistics, the quality curve
- Quality exception handing
- Production management
- Printer, support share print function

Controller

- Clamp force curve monitor
- Molding timer
- Hopper actual temperature display
- Mouse support
- Pop-up window
- Servo drive
- High performance servo driver
- Close-loop speed, position and force
- High speed Ethernet field bus link system
- DC link power support
- Energy feedback system
- Injection unit driven by servo motor
- Ultra-low inertia injection motor for higher dynamic performance
- Others
- Euromap 12 interface
- Euromap 67 interface
- Mounting patterns for robot on fixed platen
- Cooling water fence
- Hosting from cooling water connector to stationary or moving platen
- Part remove from rear safety door
- 2 Electric panel for aux. equipment
- Wi-fi module
- Interface for safety fence lock
- 4 programmable I/O
- 3 colors alarm lamp
- Custom paint color
- Euromap 78 interface
- Euromap 70 interface
- Euromap 77 interface
- OPC UA

Standard ●
Option ○