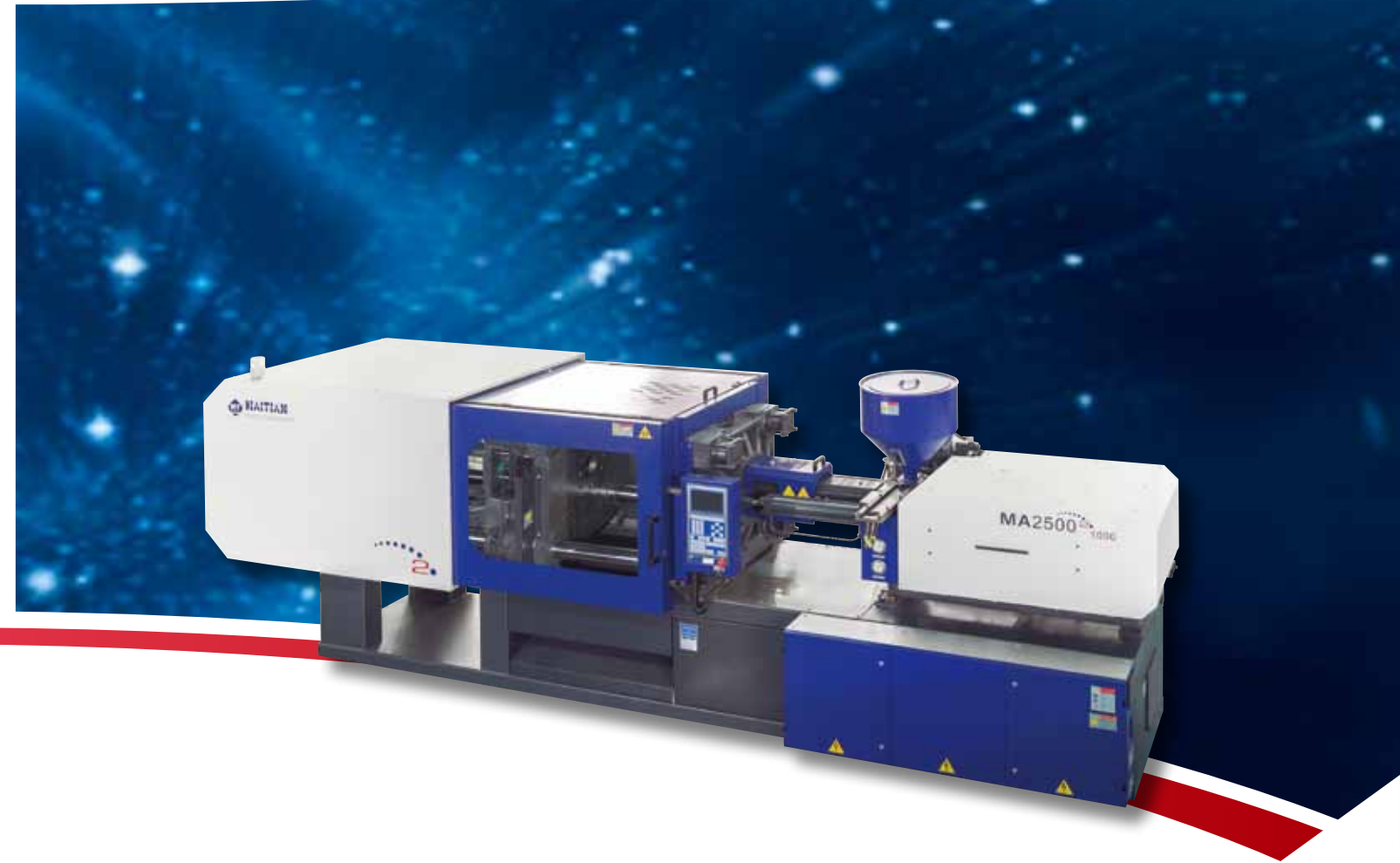


HAITIAN INTERNATIONAL HOLDINGS LIMITED

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Haitian **Mars²** Series

Haitian Partner:

HT 20121222-IV

Haitian Mars II Series

Second generation energy-saving servo injection molding machines



With the market success of the Mars Series machine, Haitian is proud to release the next generation.

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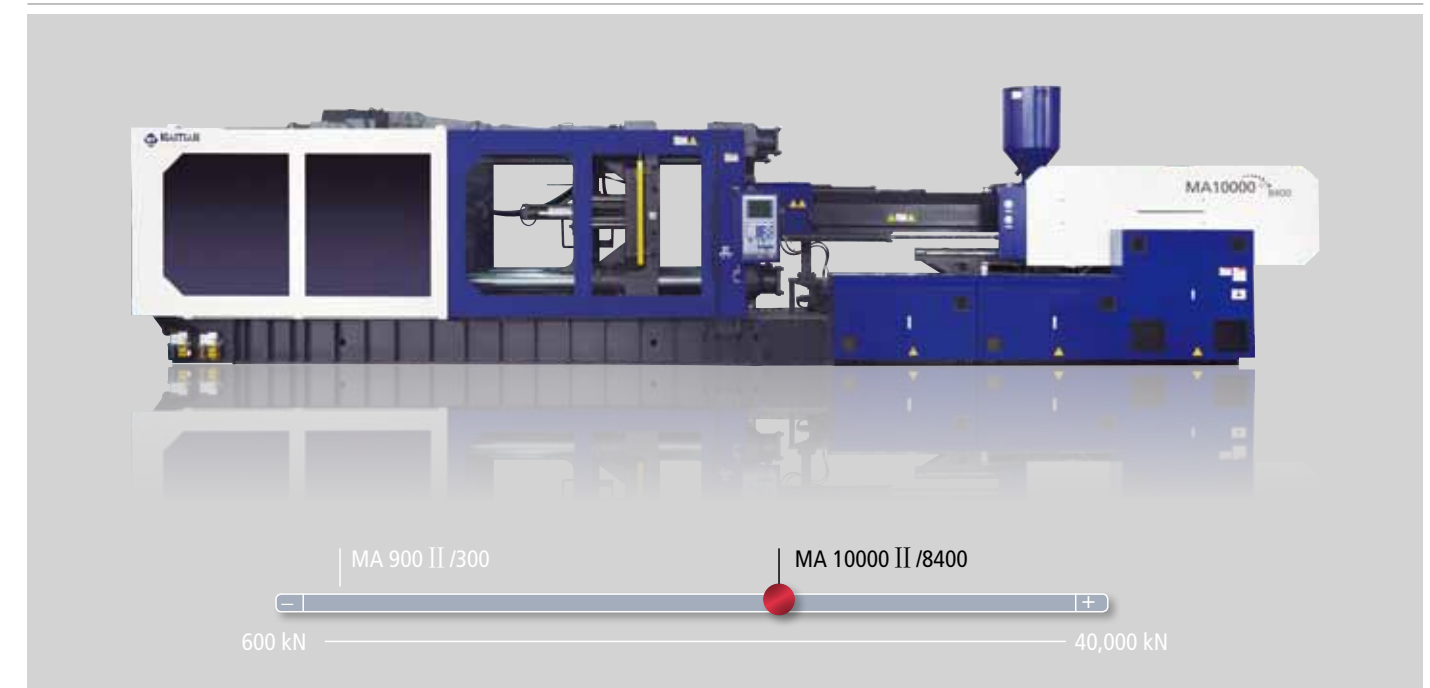
We Create Advantage

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MA 900 II / 300



MA 10000 II / 8400



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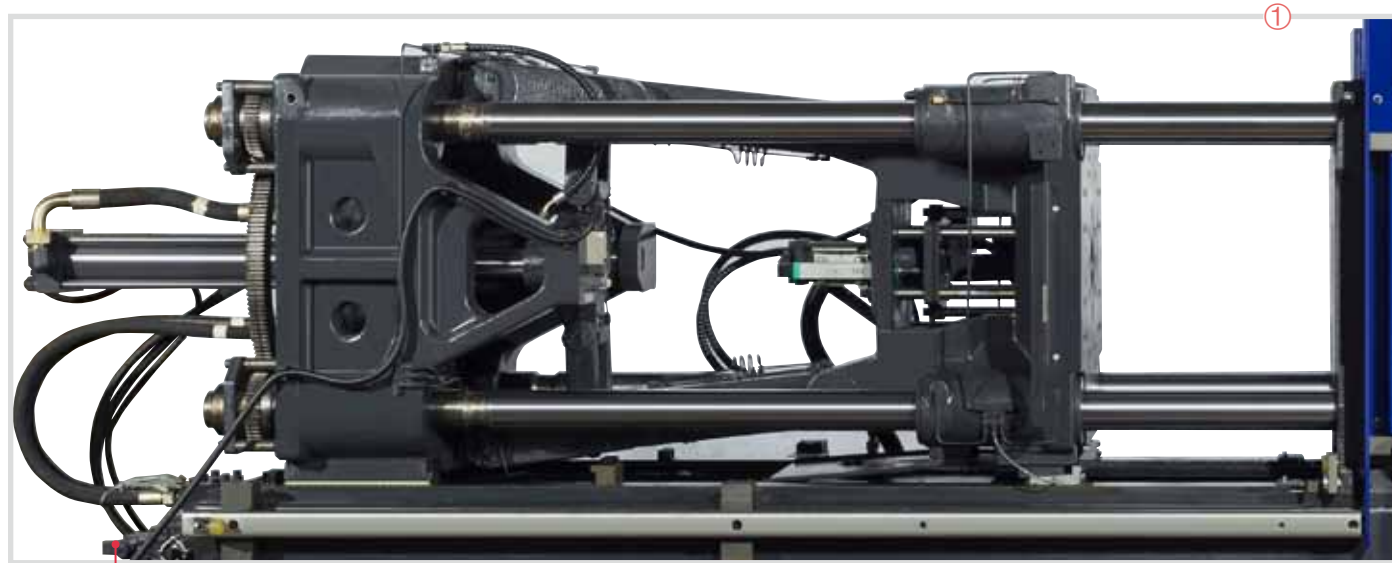


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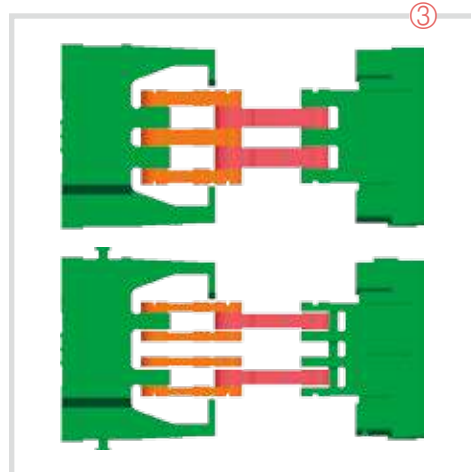


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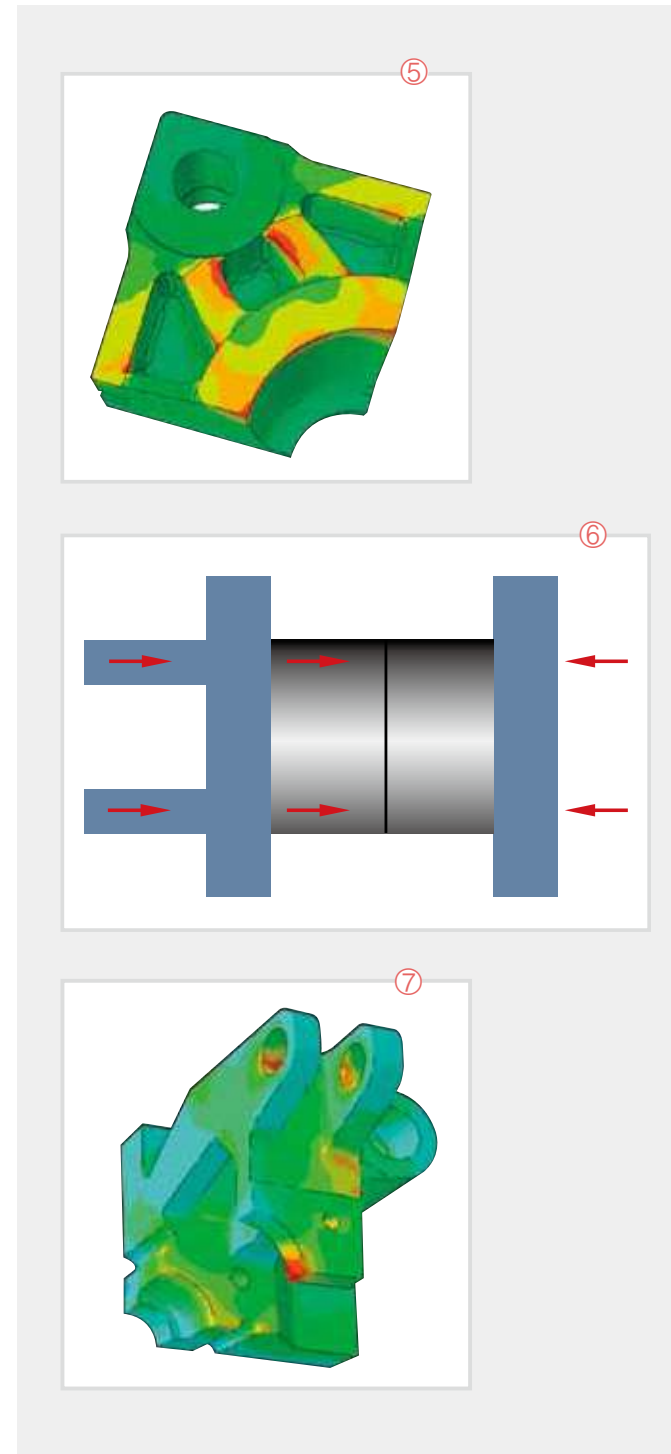
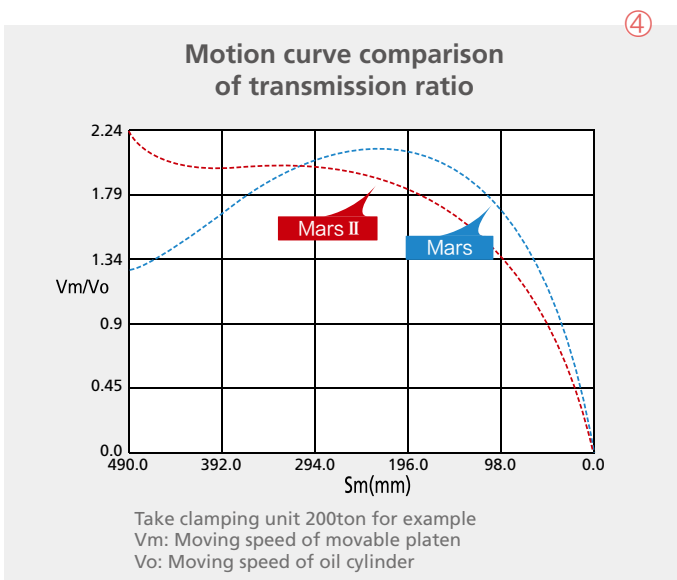


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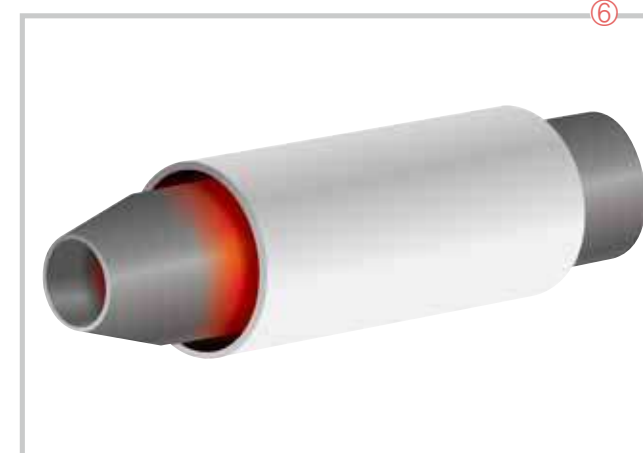
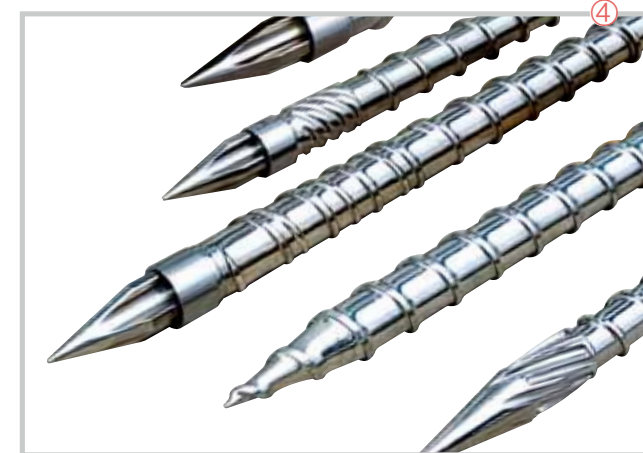


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Two layer barrel cover with optional insulation material for increased energy savings.



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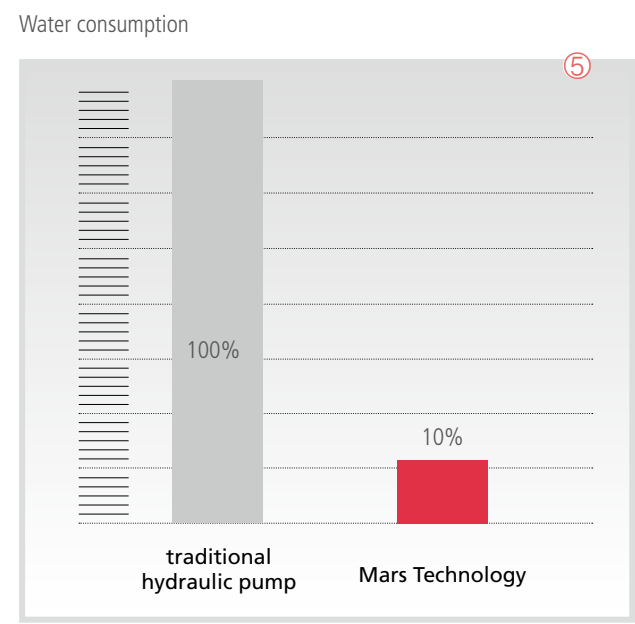
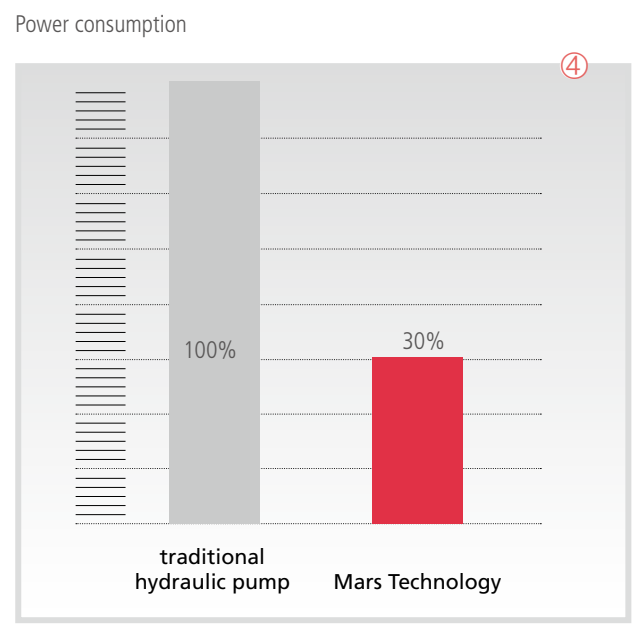
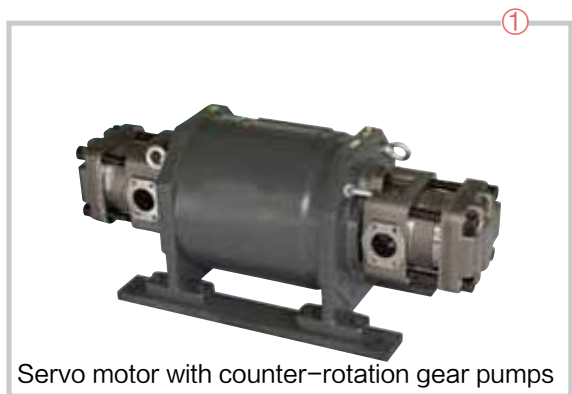
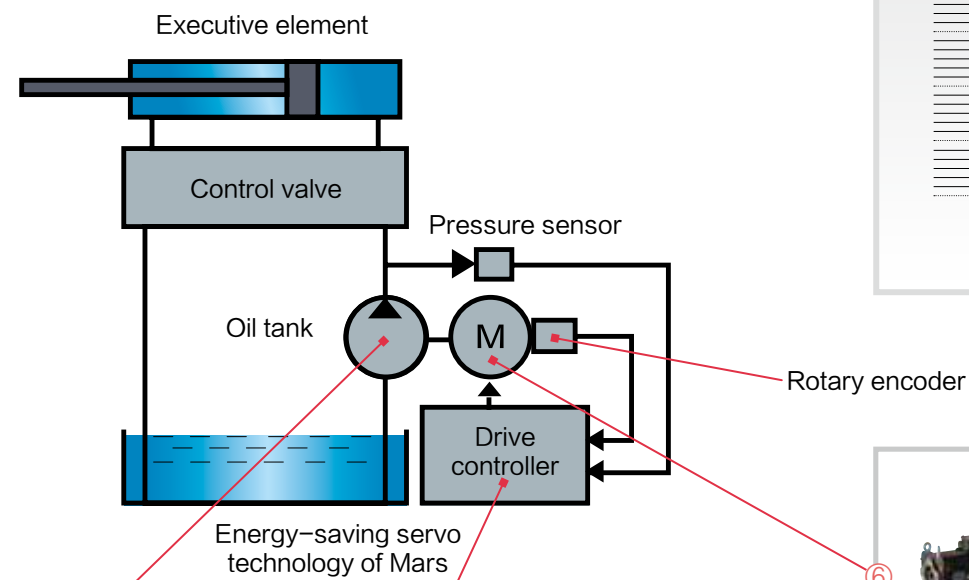


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Standard Controller



10" or 12" high resolution LCD screen with optimized panel layout for convenient machine operation.

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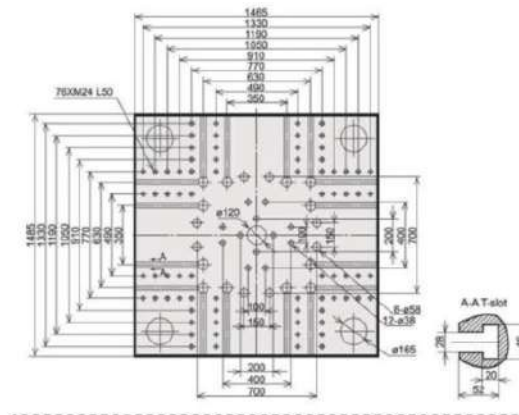
- » Two parallel CPU's for faster data processing with full digital control .
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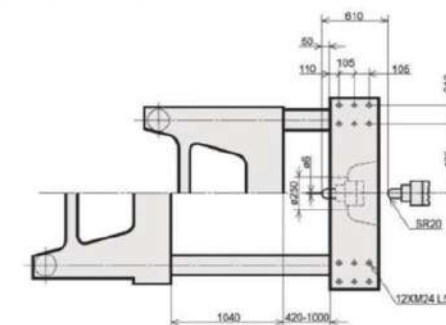
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Specification	MA 8000 II / 6800			
Screw diameter mm	A	B	C	D
Screw L/D ratio	90	100	110	120
Shot size (theoretical) cm ³	24.4	22	20	18.3
Injection weight (PS) g	2990	3691	4467	5316
Injection rate (PS) g/s	2721	3359	4065	4838
Injection pressure mpa	544	671	812	967
Plasticizing rate (PS) g/s	228	184	152	128
Screw speed rpm	78.2	95.9	114	133
CLAMPING UNIT KN	0~118			
Clamp tonnage mm	8000			
Toggle stroke mm	1040			
Space between tie bars mm	1000 × 1000			
Max. mold height mm	1000			
Min. mold height mm	420			
Ejector stroke Ejector force KN	280			
Ejector number pcs	186			
OTHERS	21			
Max. pump pressure MPa	16			
Pump motor power KW	22+55			
Heater power KW	63.75			
Machine dimension (l * W * h) m	10.9x2.32x2.7			
Machine weight t	38			
Hopper capacity kg	200			
Oil tank capacity L	1280			

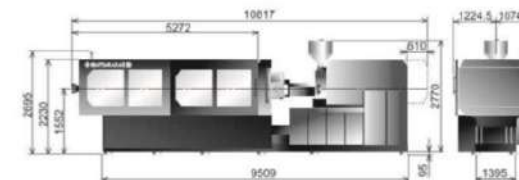
Platen dimensiond
Moving platen



Platen dimensiond
Mounting hole for robot/sprue
picker top view from
fixed platen



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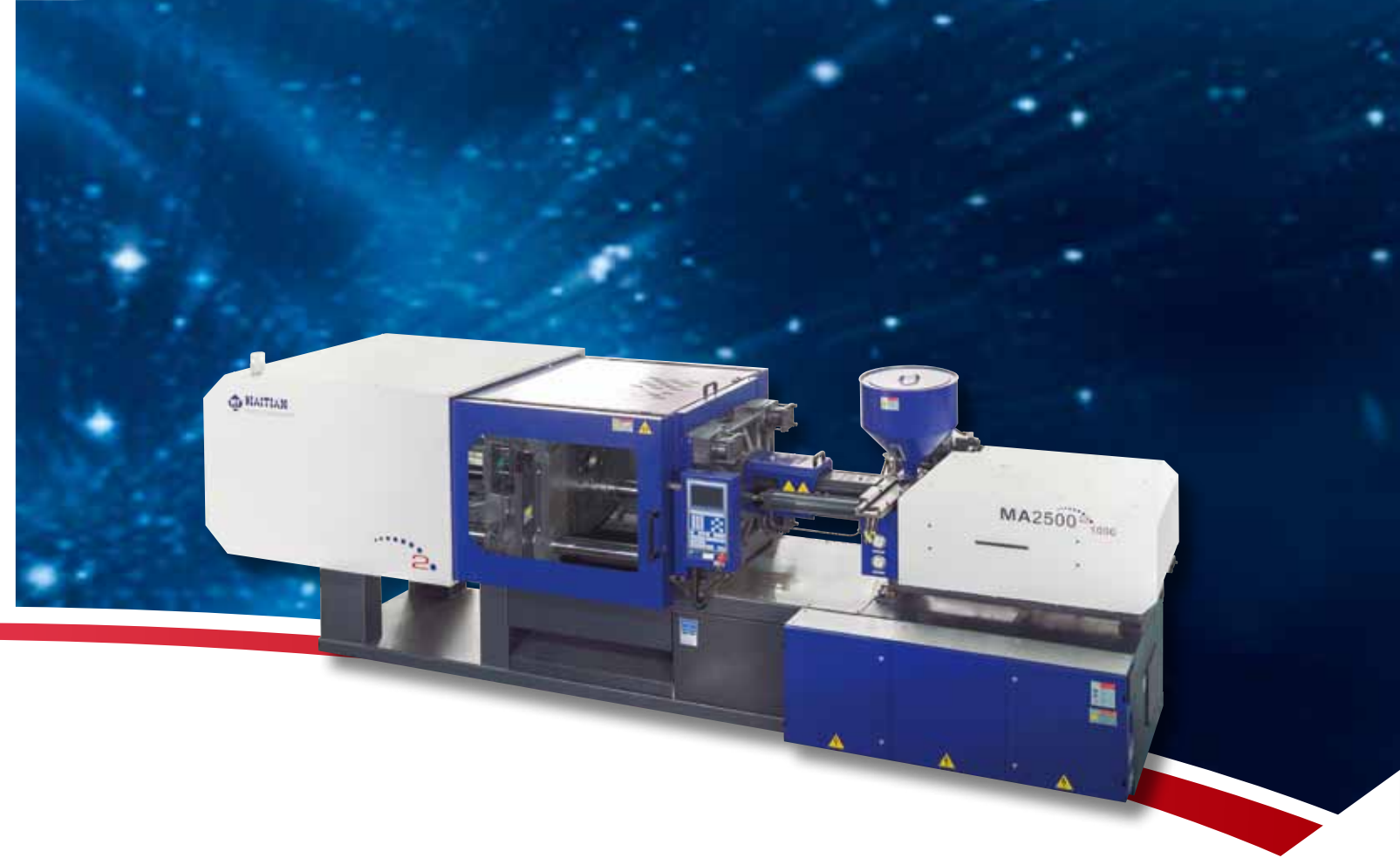


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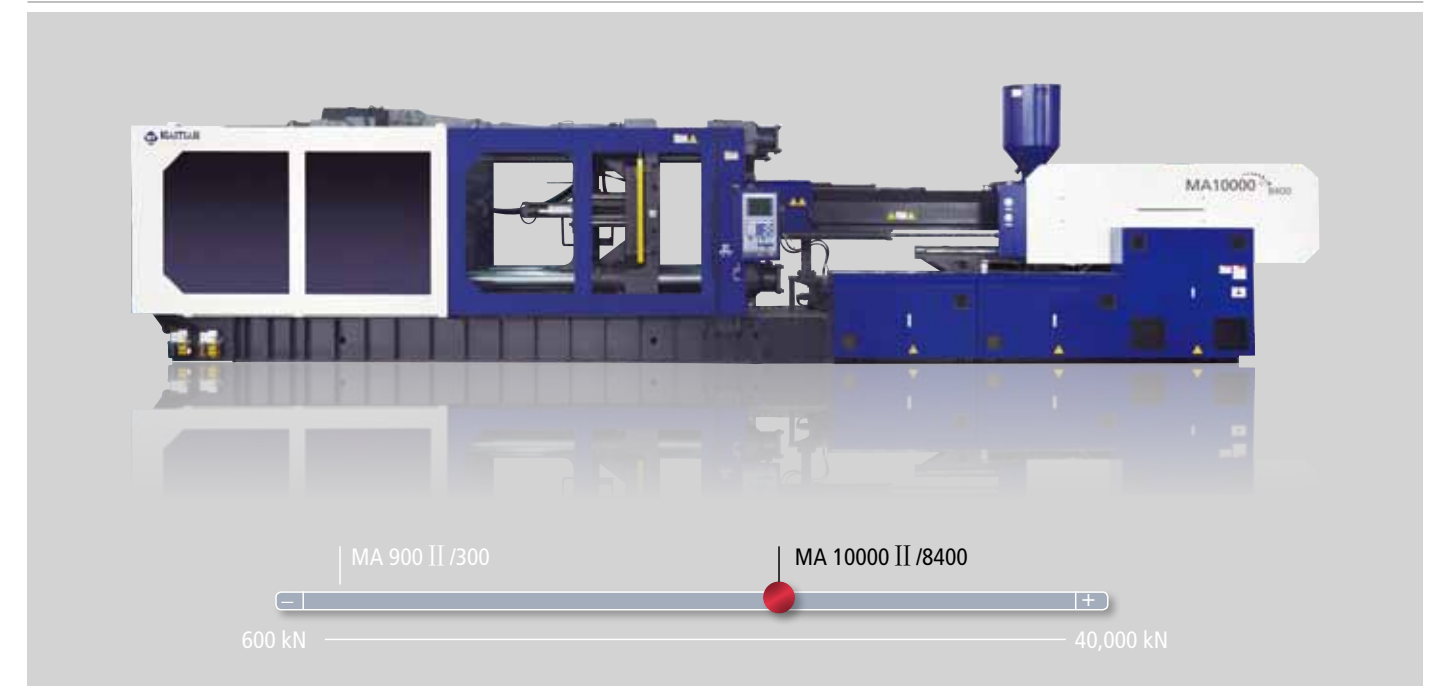
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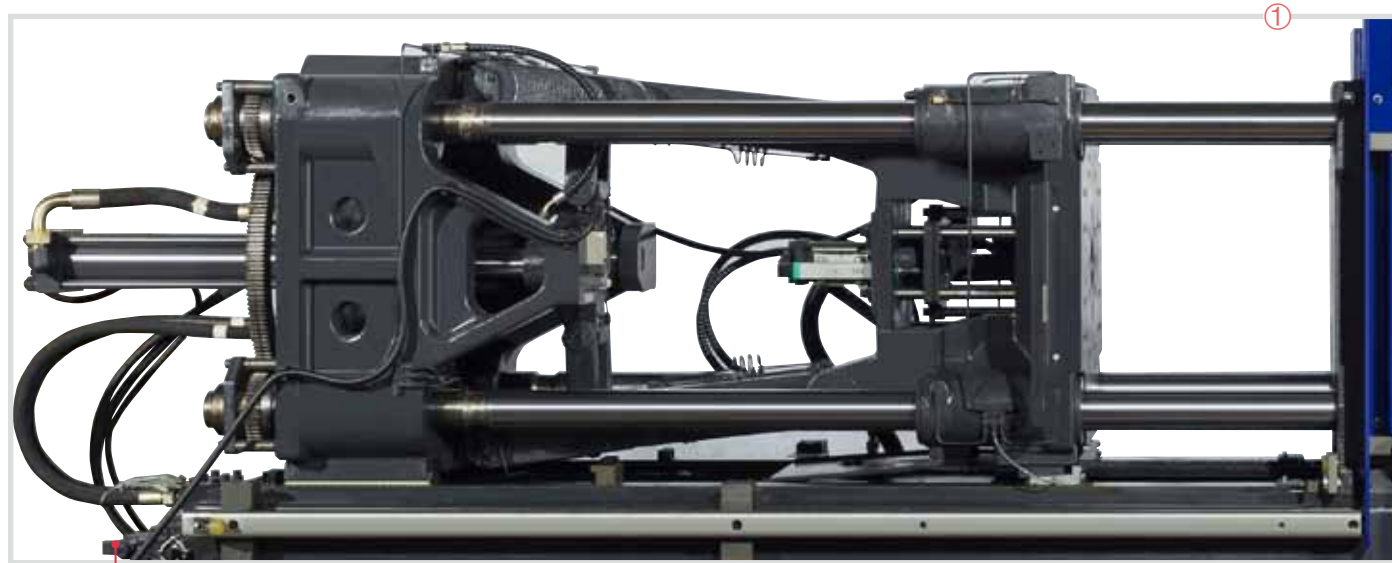


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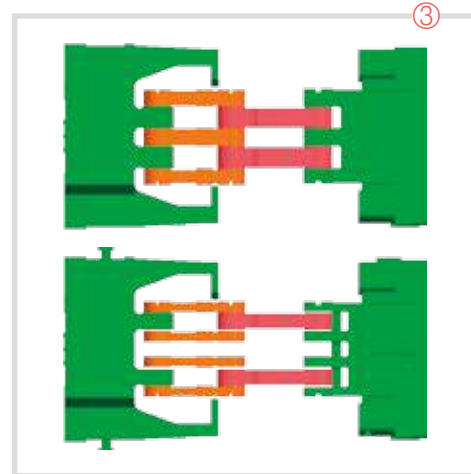


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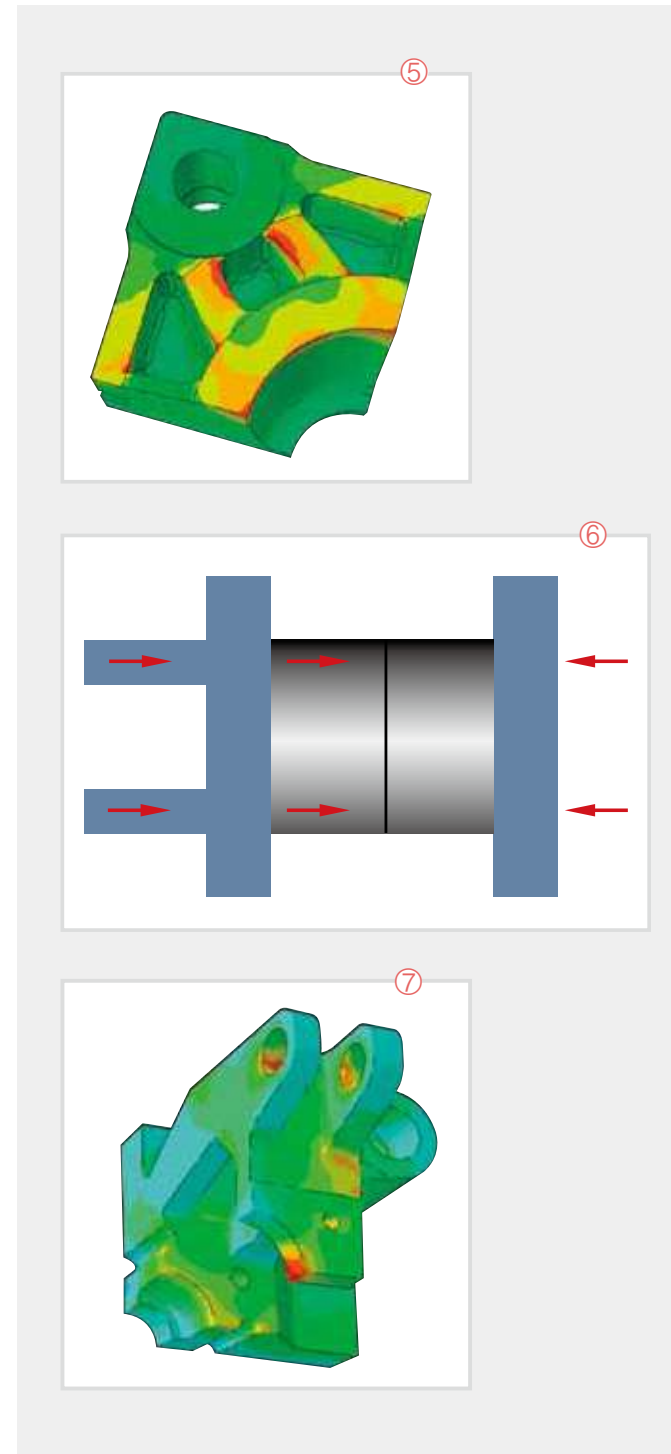
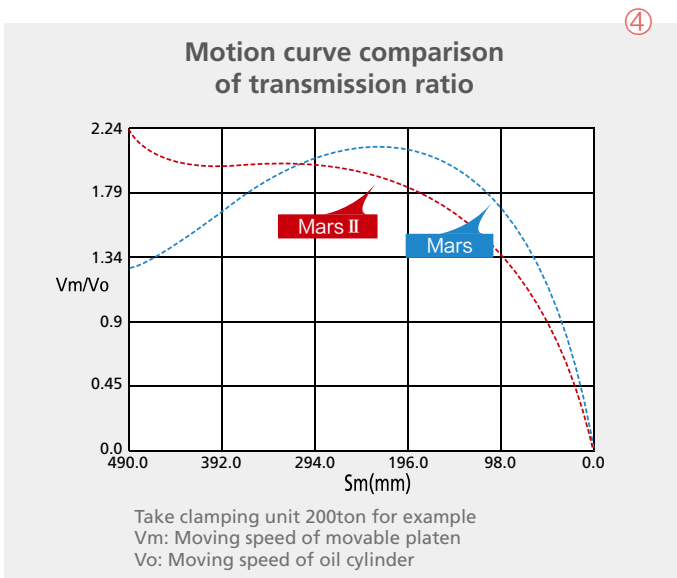


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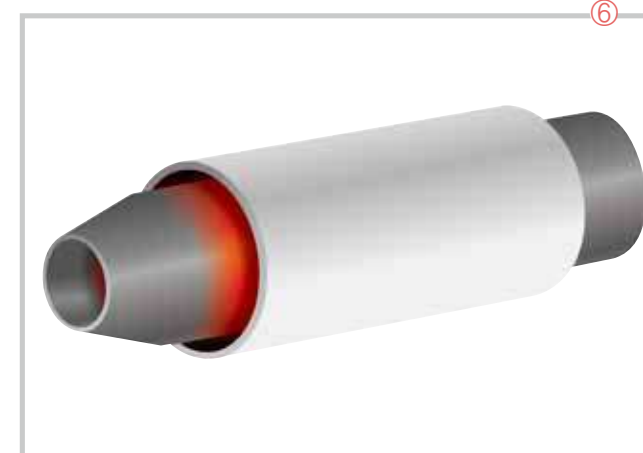


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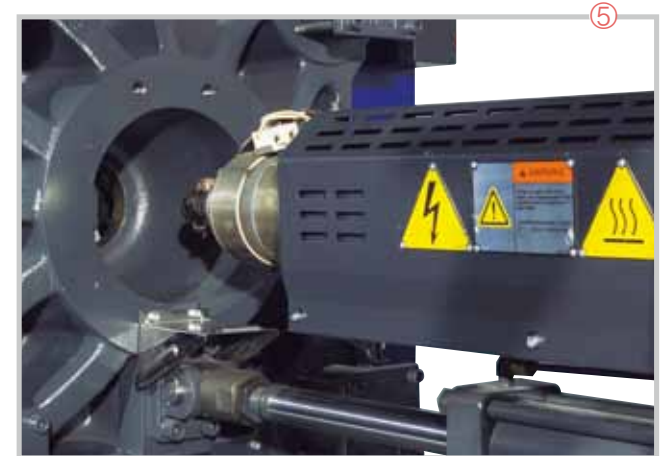


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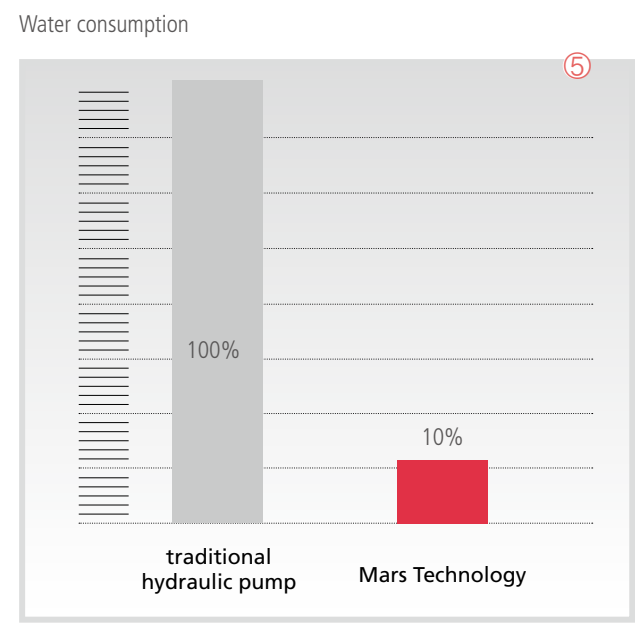
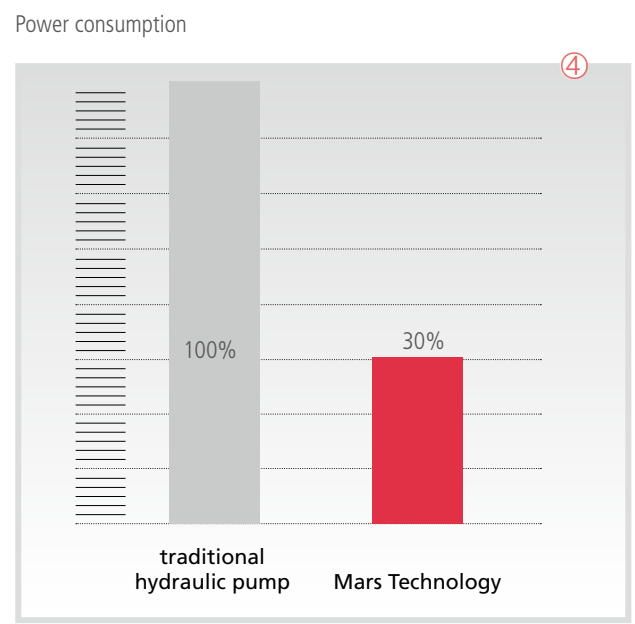
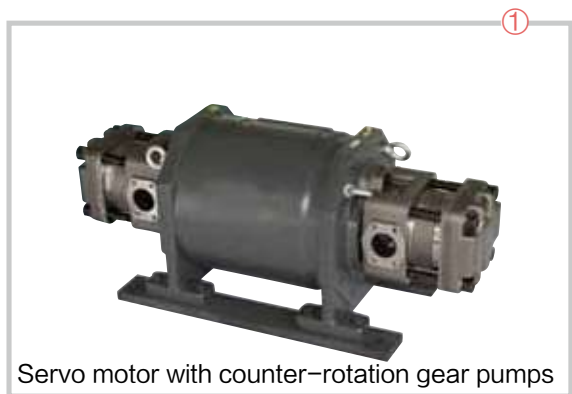
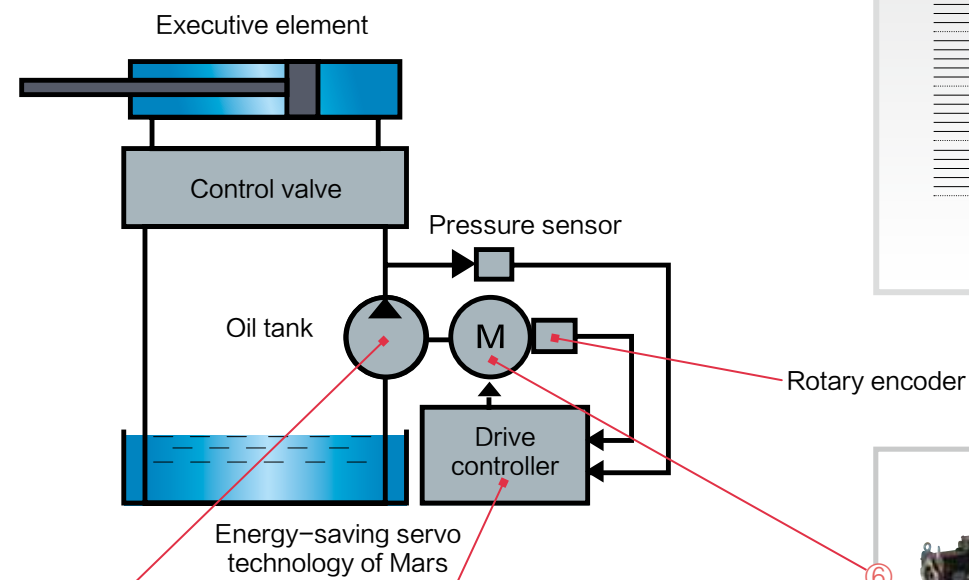


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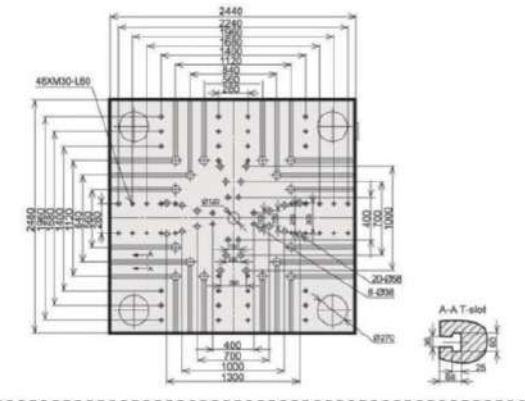
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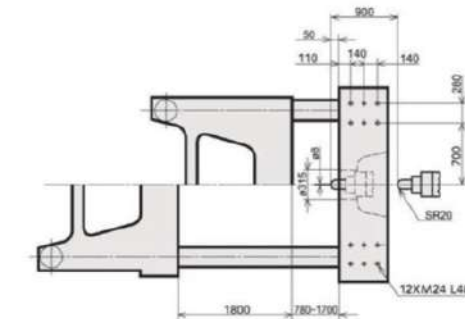
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Specification	MA 21000 II / 19300			
Screw diameter mm	A	B	C	D
Screw L/D ratio	140	150	160	170
Shot size (theoretical) cm ³	24	22.4	21	19.8
Injection weight (PS) g	10468	12017	13672	15435
Injection rate (PS) g/s	9526	10935	12442	14046
Injection pressure mpa	1219	1399	1592	1797
Plasticizing rate (PS) g/s	184	160	141	125
Screw speed rpm	153	174	194	220
CLAMPING UNIT KN	0-84			
Clamp tonnage mm	21000			
Toggle stroke mm	1800			
Space between tie bars mm	1750 x 1600			
Max. mold height mm	1700			
Min. mold height mm	780			
Ejector stroke Ejector force KN	400			
Ejector number pcs	430			
OTHERS	29			
Max. pump pressure MPa	17.5			
Pump motor power KW	110+55			
Heater power KW	117.75			
Machine dimension(l * W * h) m	15.9 x 3.6 x 5.3			
Machine weight t	139			
Hopper capacity kg	400			
Oil tank capacity L	2240			

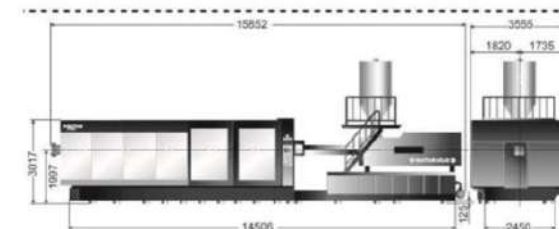
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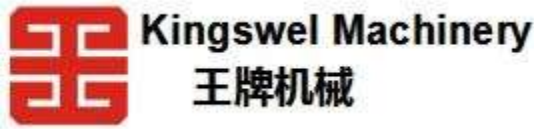
**HC Series
Blow Molding Machine
Project Solution**

您满意 我幸福



www.kingswelmachines.com

Brief introduction about KINGSWEL MACHINERY GROUP



Your satisfaction is my pleasure



ZHANGJIAGANG KINGSWEL is one member of kingswel group; its register financing is 5 million dollars. Professional design, manufacture and sell different sizes blow molding machine. They are appropriate for 0.01-5000L plastic bottle, kettle, barrel, cases, toy, plastic tray, ultra-large type plastic barrels and other hollow products. 1000L hollow blow molding machine which is largest in Asia was born here. Various products are exported to Southeast Asia, Europe, America, Arab and other parts of the world; domestic market share is more than 56%. All control elements of products pass the United States UL, CSA inspection; they are the highest quality products of the international. In order to strict product quality and shorten delivery time presses, company spend much money in importing foreign advanced management mode, let our management to a new stage, which greatly ease the contradiction between supply and demand.



First company in CHINA that pass ISO 9001 (2000)
 The first plastic machinery that successfully implement ERP
 (comprehensive enterprise resource computerized management)



UNITE PRICE: EXW FACTORY PRICE
 (including one series of spare parts)






Production System of Automatic High Speed Blow Molding Machine:
Mode: Series of HC100







BASIC INSTALLATION INCLUDING



Die head system	Accumulator	
	Extrusion system	Screw: It was designed specially based on working quality of material. Material of screw: High quality nitriding steel 38CrMoAlA , with nitriding surface $HV \geq 800$, brittleness ≤ 2 .
Barrel: High quality nitriding steel 38CrMoAlA, with nitriding surface $HV \geq 900$, brittleness ≤ 2		
Drive mode: frequency control + Hard gear surface decelerator.		



	<p>Temperature Controlling: Adopt automatic temperature control module.</p>	
<p>Clamping Device</p>	<p>Adopt bi-directional synchronous clamping device with double axis single cylinder to stabilize equipment well</p>	
<p>Frame</p>	<p>It has auto go-down lifting, driven by hydraulic motor. The size of the transmission rod is increased to ensure the transmission force. The size of the lift is large, adapting to mold changes, and production reduces costs.</p>	
<p>Hydraulic system</p>	<p>Use double-vane pump. The main hydraulic system adopts Japan YUKEN, pressure of proportion, flow control, With feedback of oil pressure, response of clamping is quickly, output is more precise, action is more smooth, pressure is big, the range of torsion is large. It have characteristic such as no pressure, no flow loss, energy conservation, working life is longer.</p>	



*Electric
controlling
system*

Every electric world-component is of famous brand.



Enclosure:
Technical data and parts instructions of blow molding machine for series of HC100

HC100	
Max. volume of products(L)	120
Extrusion	
Screw diameter (mm)	Φ100
L/D	30:1
Screw Revolving Speed(Rev. /Min.)	10~80
Plasticizing capacity (kg/h)	180(HDPE)
Applicable raw materials	HDPE
Heating Zone	5
Heating Power (kW)	35
Driving power (kW)	75
Die Head	
Accumulator volume (L)	20L
Max diameter of die (mm)	400
Heating Zone	5
Heating Power(kW)	30
Clamping Device	
Mould dimension (W×H) (mm)	1100×1700
Stroke of mold platen (mm)	550~1400
Max clamping force (KN)	750
Machine Frame	



:



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Kingswel Machinery

王牌机械

Your satisfaction is my pleasure

Lifting Stroke (mm)		350
Lifting Speed (mm/min)		30
Hydraulic system		
Hydraulic system pressure (Mpa)	Small pump	16
	Big pump	12
Motor power of oil pump (kW)		37
Parison Servo Control System		
Rated Pressure (MPa)		14
Rated Fluid (MPa)		22
Hydraulic pump motor (kW)		4
Pneumatic System		
Air Resource Pressure (MPa)		0.7
Working Pressure (MPa)		0.6-0.8
Air Consumption (m ³ /Min.)		0.4-1
Water Supply		
Water Pressure (MPa)		0.3
Water Fluid (L /Min.)		150
Electrical Power		
Power Voltage		AC380V±10%
Frequency		50HZ
Wire System		3 phase 4 wire system
Total Rated Power (kW)		151
Average consumption (kW/h)		65
Machine weight (T)		17





Kingswel Machinery
王牌机械

Your satisfaction is my pleasure

Machine dimension (LxWxH) m	5.9x3.1x4.8
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Components



:



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Item	Technology content
1. Hydraulic system	oil pump : SUMITOMO hydraulic valve : YUKEN Servo valve : MOOG Oil-way pressure control: proportion Seal element : DZ (Taiwan-essure control) / NOK (Japan)
2. electric control	transducer : Schneider PLC: Panasonic contactor : Schneider relay : OMRON proximity switch : Schneider electric ruler: GEFRAN (ITALY) light curtain sensor : SENSORC thickness servo control : MOOG 100 point air switch : Schneider touch screen : HITECH 10.4" solid-state relay : CRYDOM
3. clamping unit	form : hydraulic clamping directly, Two-way synchronization institutions drive form : differential motion quick Clamping, Two-rod structure g, Content model in a large space.
4. die	Die structure : accumulator type Runner form : first in first out material of main runner part : 38CrMoA1A ; 42CrMo
5. extrusion	Drive form : frequency Speed reducer : alloy steel gearbox Material of barrel and screw : 38CrMoA1A heating : Casting-aluminum heating device cooling fan : huanqiu
6 pneumatic system	Main air valve : CAAP / FESTO
7. clamp unit	Air cylinder: FESTO
8. motor	PHASE



Spare parts

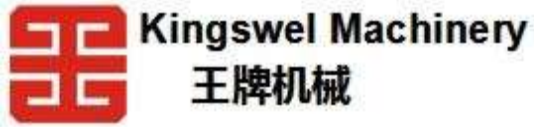
No.	Name	Spec.	Quantity	Remarks
1	Air switch	DPN 20A	1 pc	
2	Air switch	C65 32A/2P	1 pc	
3	Solid relay	50A	1 pc	
4	Relay	LY2 AC220V	1 pc	
5	Φ22 Button switch	Little mushroom head 1A1B red	1 pc	
6	Fuse	Φ5X20 8A	4 pcs	
7	Thermocouple	WRNX-21 3.5m	1 pc	
8	Limit switch	AZ8104	1 pc	
9	Proximity sensor	TLX-12N04E1-C	1 pc	
10	High temp wire	AF300°C6mm ²	5meter	
11	Heater for mold head	HFB100/A.21-32	1 pc	Φ420X190
12	Heater for core	The measurement is provided by customer		
13	Fan	FJ-180	1pc	
14	Hook spanner	HFB100-B-01	1 pc	
15	Socket wrench and handle	HFB100-B-03&HFB75-B-04	1 set	
16	Inner hex spanner	S=3-19mm	1 set	
17	Adjustable spanner	GB4440-84	1 pc	L=150
18	Adjustable spanner	GB4440-84	1 pc	L=300
19	Adjustable spanner	GB4440-84	1pc	L=450
20	Air pipe	PUΦ10X7	6 meter	
21	Common screwdriver	GB1432-78	1 pc	YS-100X6



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Your satisfaction is my pleasure

22	Cross head screwdriver	GB1433-78	1 pc	YS-100X5
23	Wire cutter with plastic pipe	GB6295.1-86	1 pc	L=160
24	Silencer	1/2"	1 pc	

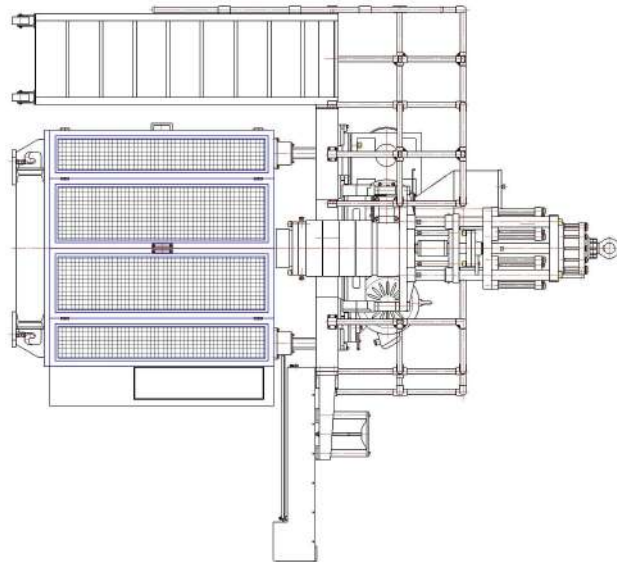
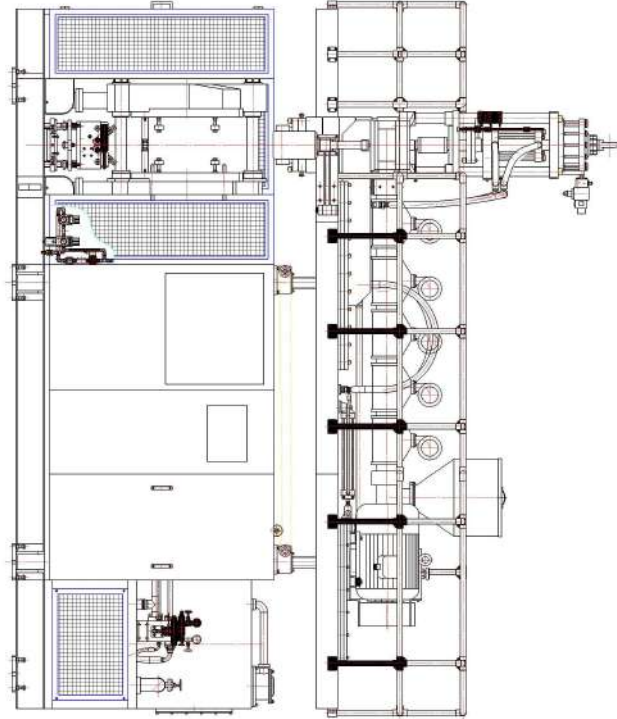


www.kingswelmachines.com

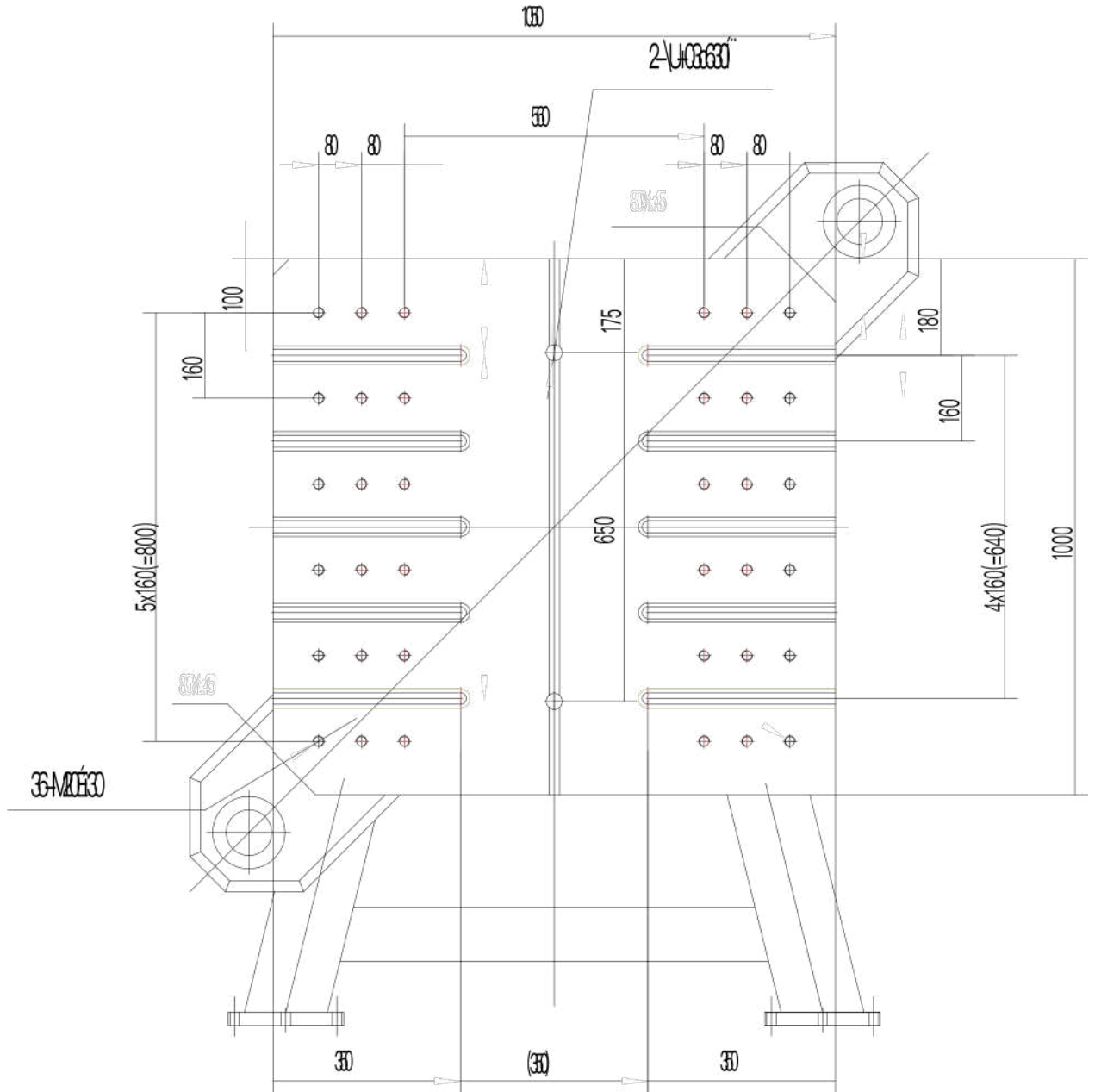




Enclosure 1: HC100 Outline Diagram



Enclosure 2: HC100 Installation Dimension Diagram



Appendix : Our Clients

Part customers of KINGSWEL machinery

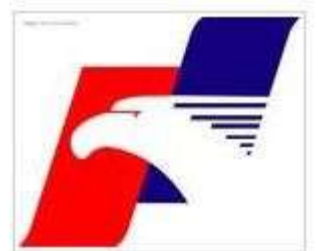
Full-automatic hollow blow molding machine produced by our KINGSWEL machinery is wide favored by users around world since we first initiate in CHINA in 1991. Our machines export to Australia, Indonesia, Singapore, Russia, Venezuela, Iraq, Iran and other countries. Domestic market share is more than 56%; these excellent results are inseparable with equipment quality, excellent service and hard working of KINGSWEL machinery. I believe, Market performance is the only standard to measure product quality. KINGSWEL machinery is willing to use the best service, best equipment and do their own best to support your company. Here are some well-known enterprises for reference:

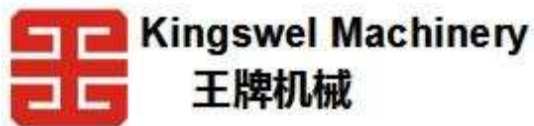
DAQING oil field
 petrochemical

CHANGCHUN FAW
 BEIJIN HUADUN

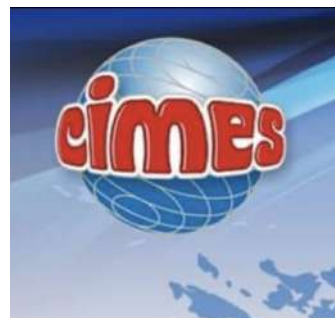
SHENYANG JINBEI
 Great Wall Lubricant

YANSHAN





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Payment And After Sales Service :

DEFINITION OF OUR PRICE:

The range of this quotation list doesn't include the following items:

3.1. Transportation costs and insurance

PAYMENT:

30% down payment by TT and 70% of the balance paid before shipment.

DELIVERY:

Delivery no later than 60 days, after we receipt your advance payment in condition that all commercial and technical details in the contract were certified by both sides.

TRAINNING:

The seller should train two or three operating man for free. (Travel and hotel is by buyer's expenses.)

INSTALLATION AND TEST

The buyer should place the machine to the right position and inform the supplier after the machine reach the buyer's factory. The supplier will send the special men to test run the machine until it is running in normal state. The buyer will bear the come-to-return air tickets, accommodation, hotel and so on in customer's side. And the buyer will pay USD100/day/person as technician labor cost when he leaves factory until leave client's plant.



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GUARANTEE

Our guarantee is valid for a period of 12 months.

If the malfunction caused of the machine's self quality; we will troubleshoot it for free. But the parts attained should be changed to new ones.

OFFER VALIDITY

The offer is valid for any order placed within a period of 30 days. Unless otherwise stated all conditions and terms are based on this list.

The offer is offered for the buyer's need in selecting and not acts as the enclosure of contract. The contract is the only standard.

The particular technical data are shown in the enclosure. If there is some further need please get in touch with us immediately. Thank you

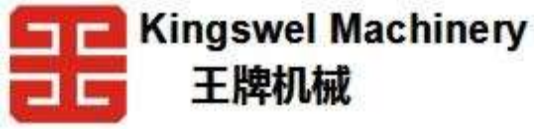
Factory Details :



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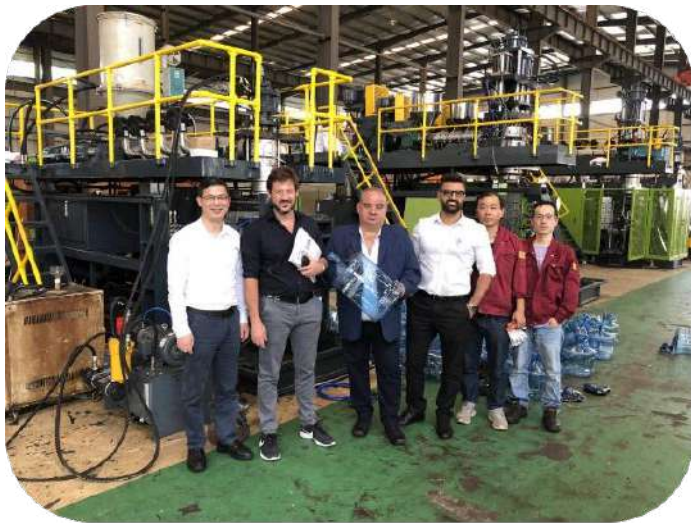
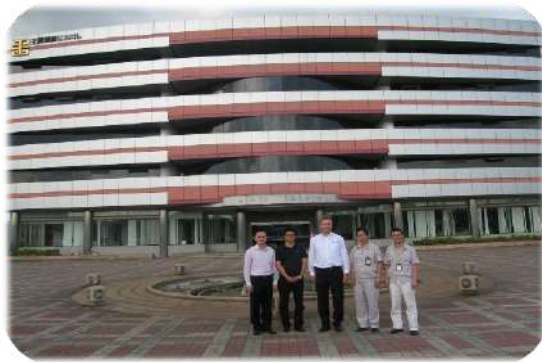


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HC90

1. The blow molding machine model HC90
2. can produce bottle, kettle, can, bucket etc.
3. The machine is especially designed for producing with material such as PE, PP etc.
4. The product capacity can reach 150 cycles per hour (idle circle).

Website : http://www.kingswelexp.com/ProductInfo_43.aspx

Screw Diameter (MM)	Distance of mold platen (MM)	Plasticizing Capacity(KG/H)	Clamping force (KN)	Average consumption(KW/H)
90	450-1100	150	270	53

HC90		
Max. volume of products(L)	50(60)	
Extrusion		
Screw diameter (mm)	φ90	
L/D	25:1	
Screw Revolving Speed(Rev. /Min.)	10~80	
Plasticizing capacity (kg/h)	150(HDPE)	
Applicable raw materials	HDPE	
Heating Zone	4	
Heating Power (kW)	25	
Driving power (kW)	45	
Die Head		
Accumulator volume (L)	6 (4.5kg,8L optional)	
Max diameter of die (mm)	350	
Heating Zone	4	
Heating Power(kW)	20	
Clamping Device		
Mould dimension (W×H) (mm)	900×800	
Stroke of mold platen (mm)	450~1100	
Max clamping force (KN)	270	
Machine Frame		
Lifting Stroke (mm)	400	
Lifting Speed (mm/min)	30	
Hydraulic system		
Hydraulic system pressure (Mpa)	Small pump	16
	Big pump	12
Motor power of oil pump (kW)	30	

Parison Servo Control System	
Rated Pressure (MPa)	16
Rated Fluid (MPa)	23
Hydraulic pump motor (kW)	4
Pneumatic System	
Air Resource Pressure (MPa)	0.8-1
Working Pressure (MPa)	0.6-0.8
Air Consumption (m ³ /Min.)	0.4-1
Water Supply	
Water Pressure (MPa)	0.3
Water Fluid (L /Min.)	100
Electrical Power	
Power Voltage	AC380V±10%
Frequency	50HZ
Wire System	3 phase 4 wire system
Total Rated Power (kW)	124
Average consumption (kW/h)	53
Machine weight (T)	14
Machine dimension (LxWxH) m	5.2x2.9x4.6