



安凯机械

张家港市安凯机械有限公司
ZHANGJIAGANG CITY AK MACHINERY CO.,LTD

Project NO: AK20190614-01-06



安凯机械

PET Preform Moulding Machine

OFFER

ZHANGJIAGANG CITY AK MACHINERY CO., LTD

ADD: Sanxing Economic development Zone Zhangjiagang City Jiangsu Province China

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[Http://www.akmachine.cn](http://www.akmachine.cn)



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Quotation:

NO	NAME	MODE	CAPACITY	QTY	UNIT PRICE	AMOUNT
A	PET Preform Injection Moulding Machine					
1	Injection Moulding Machine	PET2880	288KN	1	35,800	35,800
2	Hopper Dryer	RFG-400Kg		1	1400	1400
3	Hopper Dryer	RFG-300Kg		1	1350	1350
4	Auto-Loader	XTL-800GN		2	440	880
5	Water Chiller	20WCI(20HP)		1	6800	6800
6	Grinder (Crusher)	XFS230		1	1100	1100
7	Cooling Water Tower	Jclct-40		1	650	650
8	Preform Mould(32 cavities hot runner 1000ml 24g material S136 1881 no tail)		32Cavities	1	1100	35200
9	Preform Mould(48 cavities hot runner 500ml 9g material S136 1881 no tail)		48Cavities	1	1000	48000
10	Color Mixer	50KG		1	900	900
	TOTAL:USD132,080					
	FOB SHANGHAI PORT USD132,080					

Take Notice please:

1. Payment Method

1. 30% by T/T as deposit advanced 70% balance after inspection in our factory and before shipment

2 . Mechanical Warranty

One year warranty and come with at least one year recommended spare parts

3. Delivery & Packing

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Ø Delivery Time: 60 days after get your deposit.

Ø Coming Document:

- 1) Machine Quality Guarantee
- 2) Complete set install & maintain instruction Book in English language
- 3) Complete Document for customer to clear its custom

Ø Packaging requirement:;

- 1) The special packaging box is according to the immunity standard in China, it suits for long-distance transport, damp proof, rustproof, land way and seaway
- 2) Transportation ways: Sea transportation

4. Install in Spot

If Engineers install in spot

- 1) Installment USD100/day. Person as allowance
- 2) Training fee is free for customer's workers within the installation period
- 3) The tickets from China to the customer factory and return paid by the customer
- 4) The local housing , food, and transfer cost at customer factory paid by the customer

5. Price Valid Time: 60days

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Injection Moulding Machine for PET



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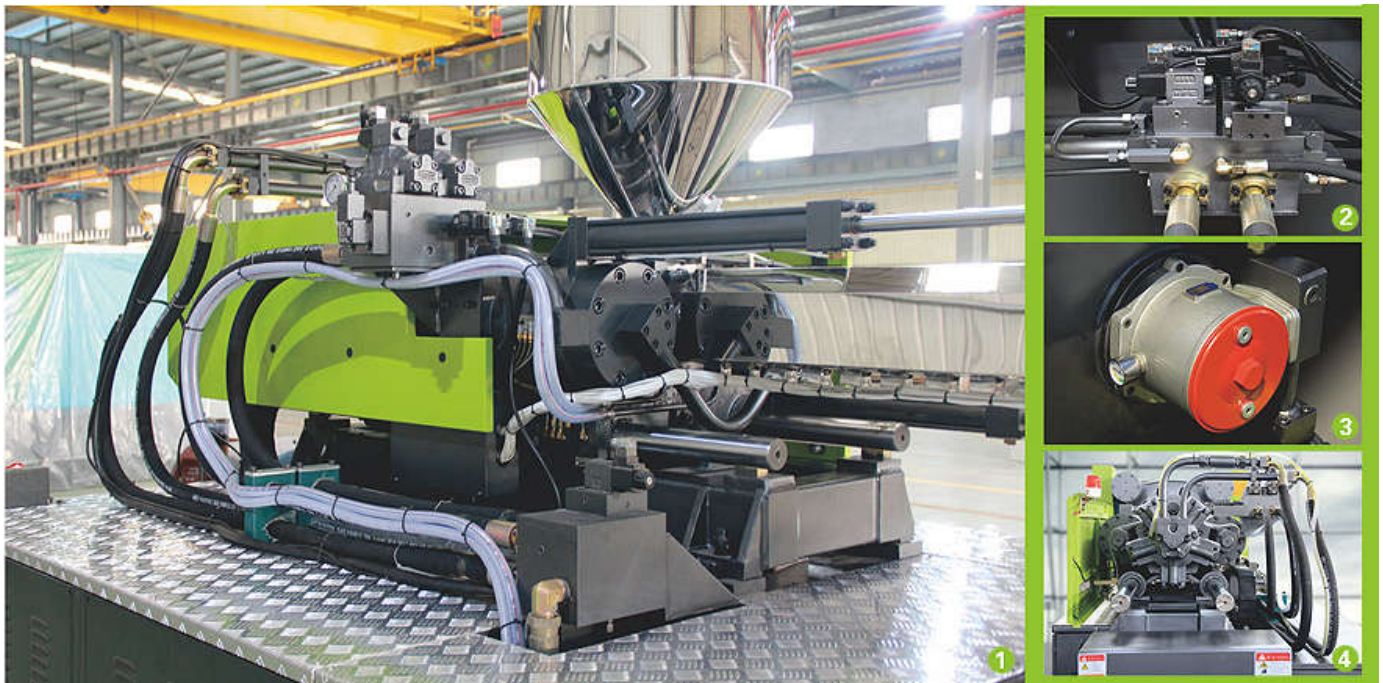
V6 Hydraulic System
变量泵省电液压系统
ئۆزگىرىشچان مىقدارلىق ئامبوس توك ئىچەش سۈيۈقلۈك بېسىمى سىستېمىسى

节电
save
25-45%

Advanced designed hydraulic system makes the operation more stable and lower noise; and it can save the energy up to 24%-45%.

- Perfect combination between computer and high efficient proportional plunger variable pump saves electricity by 25%-50%. The economic efficiency is high.
- With full flow high precision return oil filter, the oil filter effect is up to NAS – 7 levels, can effectively avoid contamination and deterioration of hydraulic oil, thereby hydraulic parts work more stable and service life of hydraulic seals is longer.

- Imported advanced hydraulic valve incorporated with differential oil circuit guarantees mould locking device to be fast, stable and low noise, and reduces forming period, increase production efficiency.
- Cartridge valve added in the hydraulic system insures the fast response & small impact, which reduces the consumption of the pressure.
- Spiral flow cooler is high in heat transfer efficiency and less pressure loss. It guarantees stable operation of hydraulic system, improves repetition accuracy and qualification rate of products.
- Low speed and large torque hydraulic motor meets plasticizing demand of different raw material.



1. Large-flow hydraulic system with cartridge valves.
2. Imported top grade hydraulic components.
3. High-precision oil filter and full-flow by-pass oil filter.
4. Screw is driven by low speed & big-torque hydraulic motor.



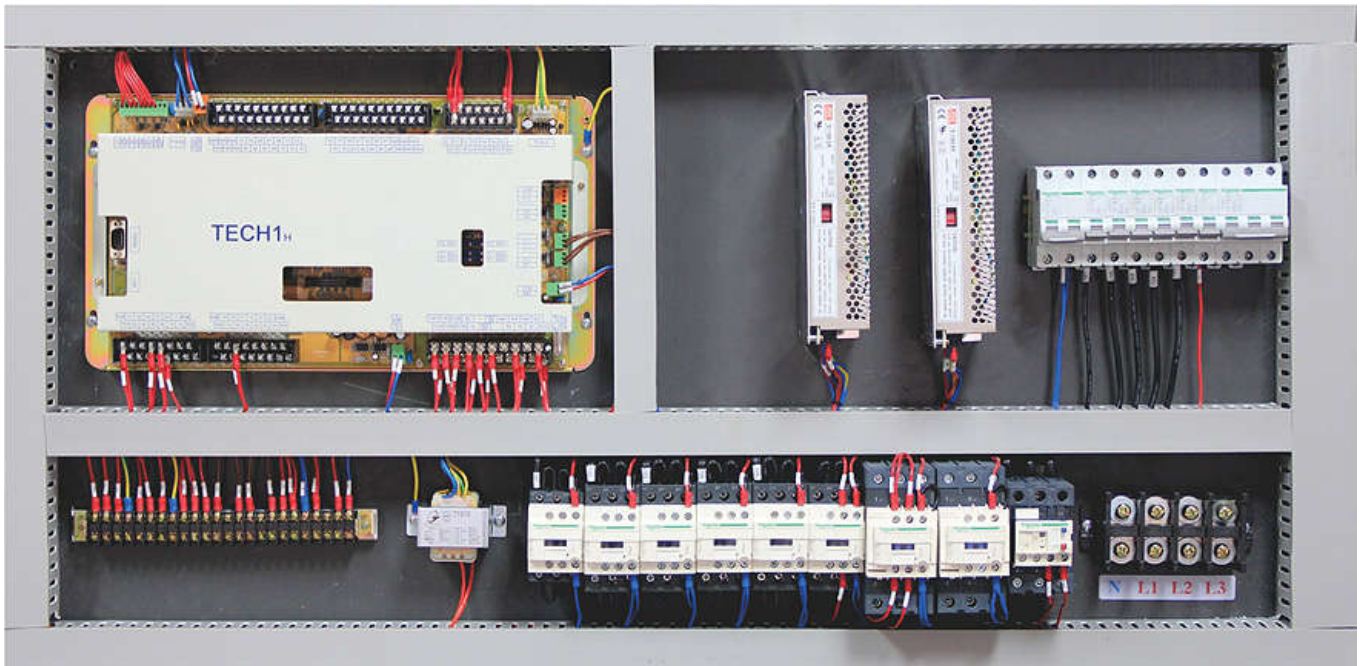
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Controller System

控制系统





Imported electric parts

- Advanced switch power supply, with operating voltage between 110V and 280V, can be used in all severe power supply environment.
- High pixel (800 × 600) TFT screen with large capacity is used. Adjusting process is more intuitive, more simple in operation, the function is more perfect. It can also simulate the machine action.
- High speed CPU increases capacity for memory to meet the requirements of system control. Injection process also can be shown with graphic recording, makes it more easy for injection technique adjustment.
- It can store injection material information for 200 sets of moulds. Mould information could be selected, duplicated or removed conveniently. SD card can be used to read & save mould data, which is conducive for large-scale production management.
- With network communication port, it can realize the network management of injection molding machine. The work state of production and the factory can be monitored, to achieve the fully automation of production.
- Automatic detection of perfect function and a large number of internal parameters help to adjust the machine to the best state.



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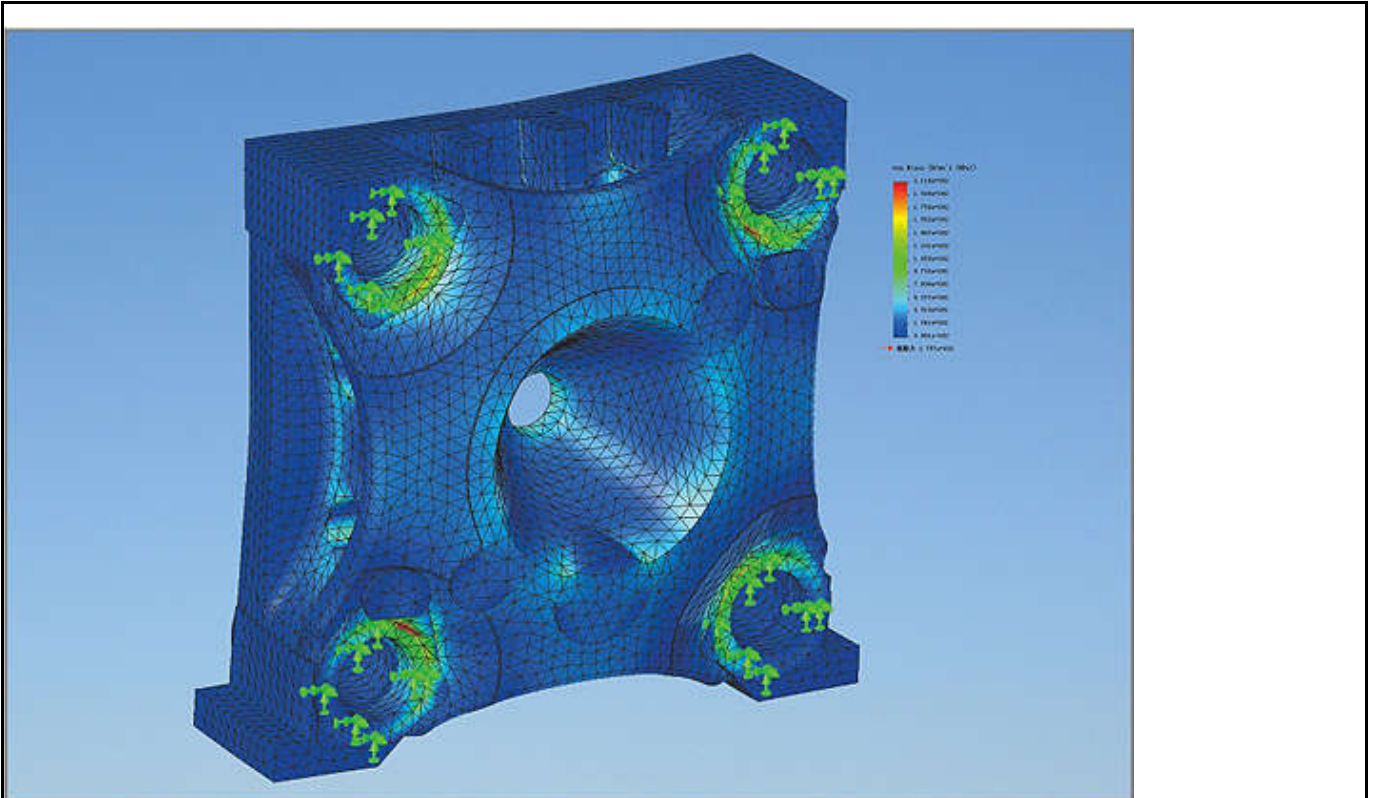
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- Six stages material injection speeds and pressure, five stages pressure holding speed and pressure, and two stages material molten speed and pressure control can meet all complicated process requirement of products.
- Fuzzy temperature control is used. High and low temperature deviation alarm and thermocouple disconnection detection functions are available.
- Function to prevent cold material start-up.
- Mould clamping, injection, ejector adopt high precision electronic meter for position measuring. The position setting precision is up to 0.1mm.
- Push-out stay, ejector shock and multi push-out functions are available. Ejector forward and backward speed, pressure can be set separately in two stage.
- Counting of forming can be matched with automatic stop function for convenient production management.
- Default monitor: When machine works in automatic mode, computer may monitor the working condition in each period and judge if products and machine are normal or not.
- Computer controlled automatic lubrication devices: According to times of opening and clamping mould, lubricating oil output can be adjusted conveniently through computer.
- Automatic mould adjusting function. Input directly clamping pressure, the computer could automatically finish mold thickness adjustment.
- Information setting can be protected to prevent improper modification.

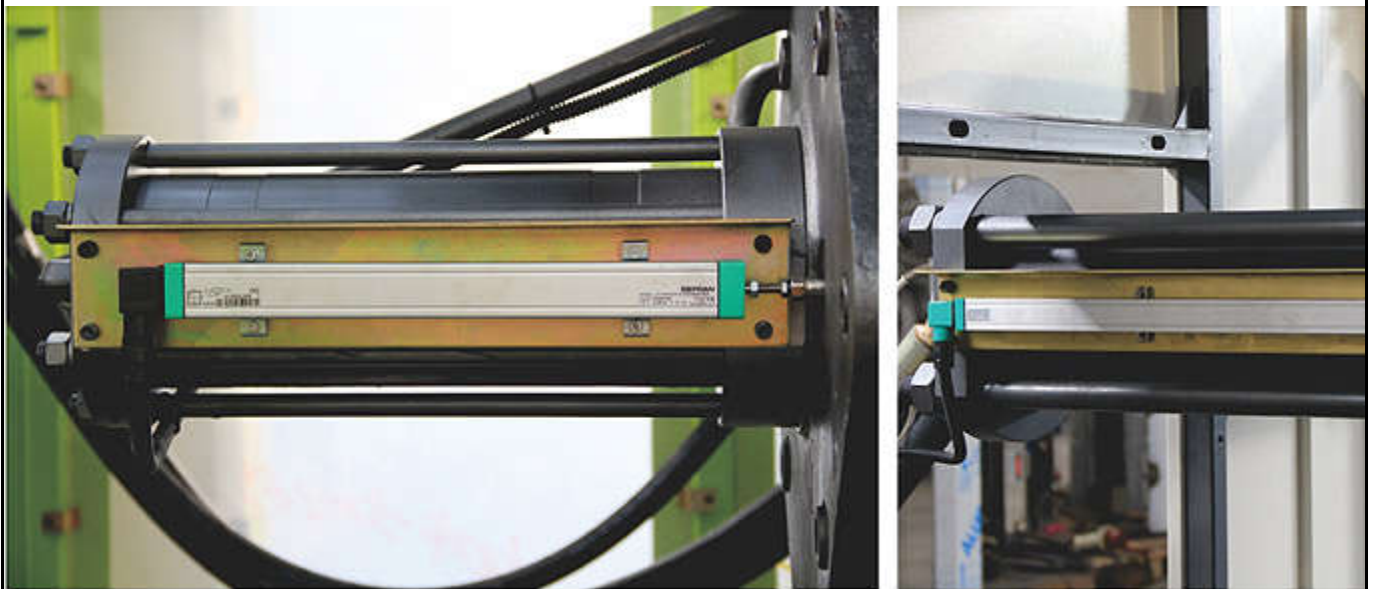
Clamping System



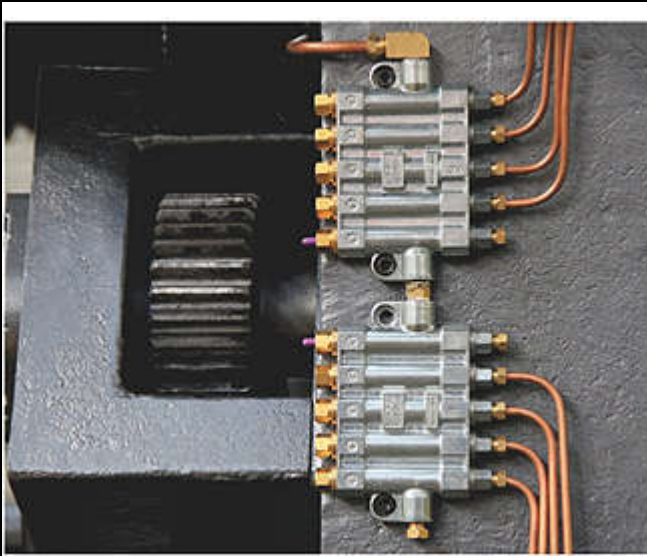
- Five pivots double toggle mould clamping mechanism is featured with fast opening and clamping, stable and energy saving.
- Differential fast mould clamping device effectively reduces cycle time and increases working efficiency of the machine.
- Reliable low pressure protection function greatly prolongs the service life of the mould.
- T-Slot Platen make fixing the mould in the machine more convenient.



Finite element analysis is used on the structure of mould plates so that the structure of mould plate is more logical, stronger and higher fatigue resistance.



High precision electric meter is used to control position. The control precision is $\pm 0.1\text{mm}$.



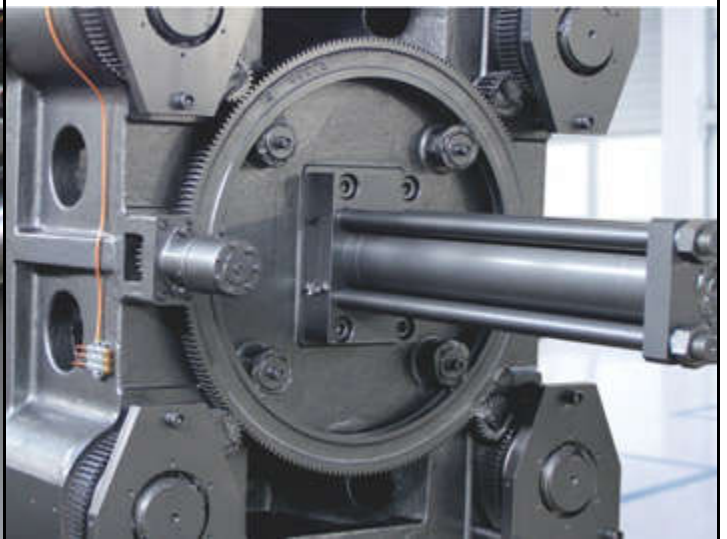
Automatic dosing lubrication system guarantees mould clamping mechanism to be more stable and reliable.



Mechanical and double electric interlock protection devices guarantee the safety of the operators. (Machine above 400T is also equipped with hydraulic safety device.)

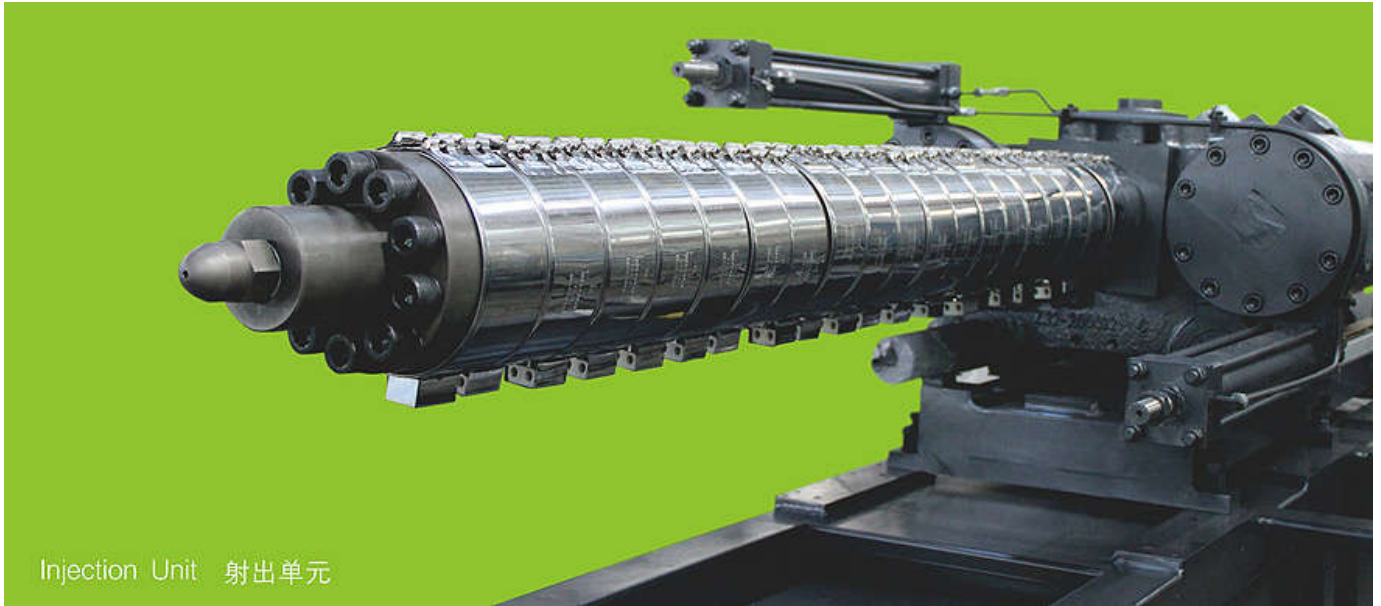


Wear resistant hard chromium plated tie bar is featured with high-tensile and high strength.



Hydraulic motor with centering gear mould adjusting system makes mould adjusting system to be better.

Injection System

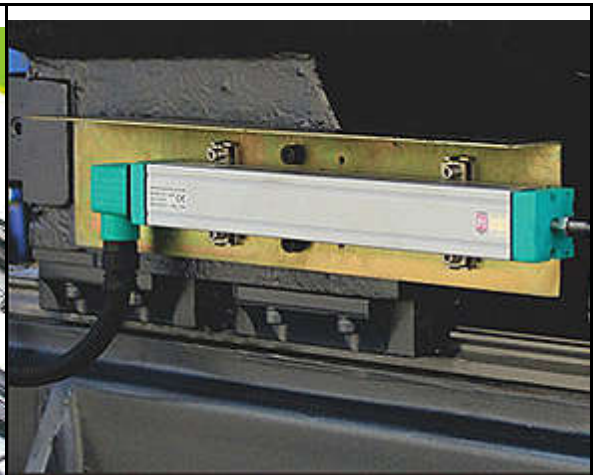


Injection Unit 射出单元



Screw
高效塑化件

Superior and efficient separating screw and high mixing screw increase the range of material used, and guarantee molten material to be uniform and stable.



Precision electronic meter control on material injection, molten stroke.

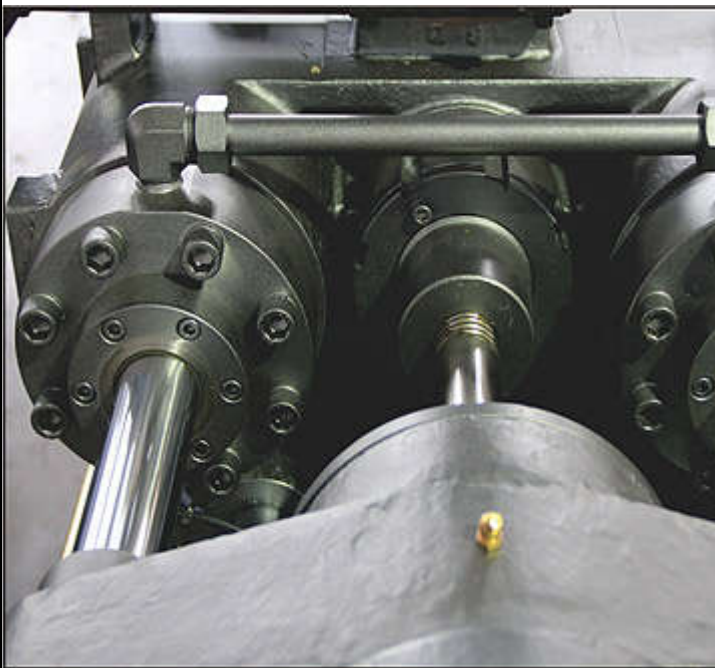


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Nozzle cover



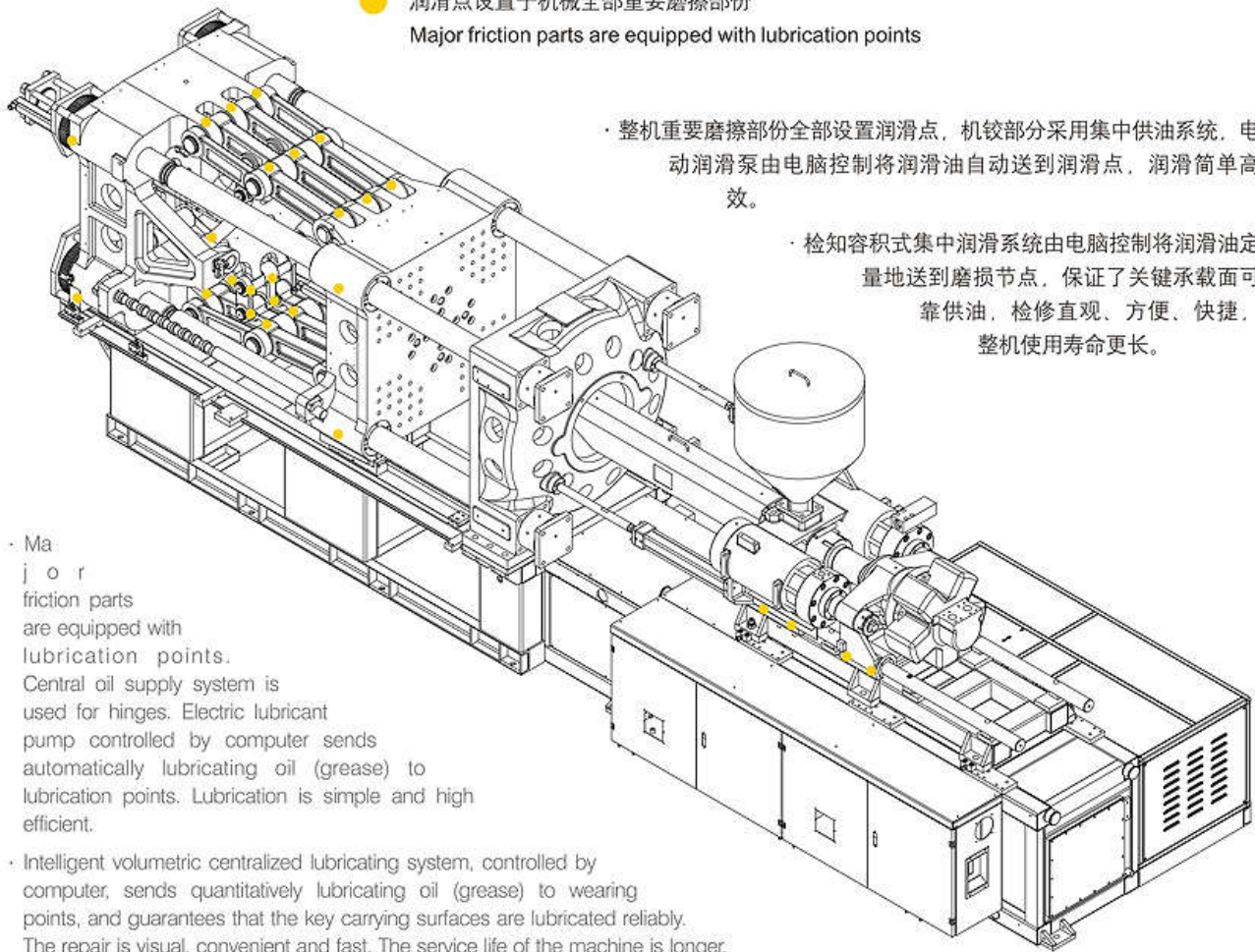
Double cylinder balance injection mechanism provides high-pressure injection, easy maintenance and saves space.



Machine above 250T adopts double injection cylinders to prevent injection nozzle displacement and avoid material leakage.

Lubrication System

● 润滑点设置于机械全部重要摩擦部份
Major friction parts are equipped with lubrication points

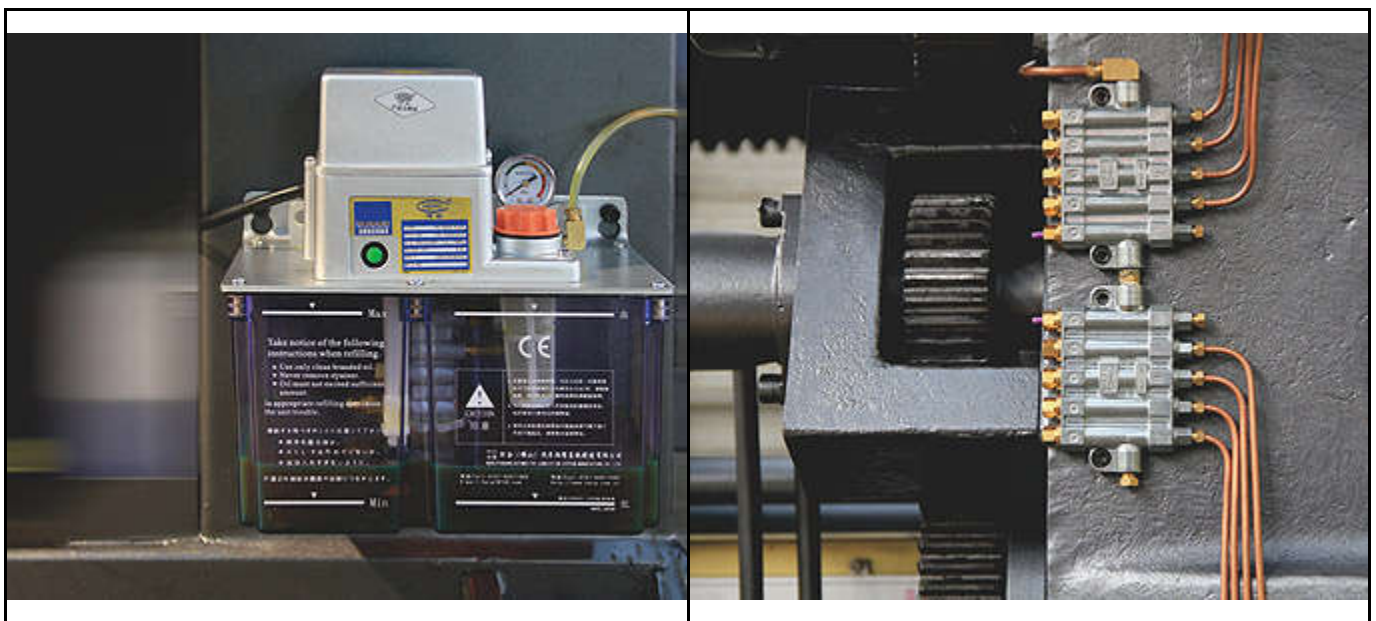


· 整机重要摩擦部份全部设置润滑点，机铰部分采用集中供油系统，电动润滑泵由电脑控制将润滑油自动送到润滑点，润滑简单高效。

· 检知容积式集中润滑系统由电脑控制将润滑油定量地送到磨损节点，保证了关键承载面可靠供油，检修直观、方便、快捷，整机使用寿命更长。

· Major friction parts are equipped with lubrication points. Central oil supply system is used for hinges. Electric lubricant pump controlled by computer sends automatically lubricating oil (grease) to lubrication points. Lubrication is simple and high efficient.

· Intelligent volumetric centralized lubricating system, controlled by computer, sends quantitatively lubricating oil (grease) to wearing points, and guarantees that the key carrying surfaces are lubricated reliably. The repair is visual, convenient and fast. The service life of the machine is longer.





Electric lubricant pump	Intelligent volumetric distributor
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Device Configuration

<p>Standard Devices:</p> <p>1 . Injection system</p> <ul style="list-style-type: none"> . Nitriding alloy steel screw & barrel . Sliding rail unloading device . Standard injection nozzle . Double cylinder balance injection unit . Stainless steel hopper . Anti-cold start-up of screw . Automatic resin clear function . Anti leaking function . Multistage charging barrel PID temperature control (4 - 7 stages) . Automatic defecting on material molten and injection fault . Protective nozzle cover . Precision electronic meter control on material injection/molten stroke <p>2 . Mold locking device</p> <ul style="list-style-type: none"> . Precision electronic meter control mold locking / ejector stroke . Mold clamping three plates/hinges are made of high strength nodular cast iron. . Two stages forward / backward movement controlled by computer . Mold low pressure protection function 	<p>Optional Configuration:</p> <p>1 . Injection system</p> <ul style="list-style-type: none"> . Long injection nozzle (Extended by 25 / 50 / 100mm) . Special screw & Barrel . Hopper dryer . Barrel with air blowing devices . Self-locked injection nozzle <p>2 . Mold Clamping system</p> <ul style="list-style-type: none"> . Enlarged mold capacity by 50/100mm . Super large ejector stroke . Mold hoisting carrier . Mold heat insulating plates . Special mold location ring . Electrical safety gate . T-slot mold platen <p>3 . Hydraulic system</p> <ul style="list-style-type: none"> . Hydraulic core pull / Unscrewing mold release device . Hydraulic safety protection . Independent oil temperature control system . Sensitive servo control injection system . Closed-loop control variable pump system . Nitrogen material injection device . Melting by proportional back pressure control
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. Hydraulic mold adjusting device

3 . Hydraulic system

. High performance proportional variable pump system / variable-pump

. Molten material back pressure adjusting device

. Full flow precision return oil filter

. Automatic adjustment of system pressure and flow

4 . Control system

. Input / output viewing function

. Setting function of automatic temperature retaining and heating

. Time / position/pressure control on injection to pressure holding

. Independent adjustment on slope of each movement

. Two-sets of hydraulic core pulling/unscrewing mold release

. Save for 200 sets of mold data & monitoring function for production data

5 . Accessory

. Operation manual

. Tool box

. Spare parts

4 . Control system

. Electric unscrewing mold release device

. Mold air blowing devices in moving mold Platen

. Electric unscrewing mold release dynamic interface

. Change of power supply voltage

. Heating by solid-state relay control















. Euro standard robot port



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Brand main component configuration:

 日本油研	 德国艾可勒	 日本NOK	 德国福伊特
 意大利杰弗仑	 丹麦丹佛斯	 贝加莱	 台湾弘讯
 法国施耐德	 蒙德	 美国伊顿	 菲仕
 日本不二越	 意大利英特姆		

SPECIFICATION

Specification	Unit	PET-1500V6
International Size Rating		2880-1440
Screw diameter	mm	75
Shot volume	cm ³	1303
Shot weight (@PS 1.05)	g	1163
Shot weight (@PET 1.3)	g	1516
Shot weight (@PP 0.9)	g	938
Screw stroke	mm	295
CLAMPING UNIT		



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Clamping Force	KN	2880
Opening stroke	mm	490
Max. daylight	mm	1300
Space between bars	mmxmm	670x670
Movable platen size	mmxmm	985x985
Max. mold height	mm	700
Min. mold height	mm	300
Ejector stroke	mm	175
Ejector force	KN	184
Ejector force	KN	115
No. of ejector pins		12+1
POWER UNIT		
Hydraulic system pressure	Mpa	17.5
Pump motor power	KW	30
Heater power	KW	20
Total current	A	145.5
GENERAL		
Oil tank capacity	L	560
Machine Weight	Ton	10.5
Machine Dimensions(L*W*H)	m	7.1x1.62x2.1

MAIN COMPONENTS IN THE MACHINE

Type	Name	Brand Name
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Hydraulic system	Servo motor	Hitec –china
	Drive	MODROL (China)
	Servo pump	Eckerle/Voith (Germany)
	Proportional variable pump	YUKEN/NACHI(Japan)
	Proportional valve/ Direction valve	YUKEN/NACHI
	Fixed pump	YUKEN/ VICKERS (USA)
	Oil seal dust seal	NOK(Japan)
	Mould adjusting hydraulic motor	JEHYCO/WHITE
Electric system	Computer	Techmation(taiwan)
	Electronic meter	Posensor Ixthus (UK)
	Electric switch	MERLIN GERIN/
		SCHNEIDER(France)
	AC contactor	SCHNEIDER
	Air breaker	MERLIN GERIN
Clamping System	Hydraulic motor	Deli/Dongguan(China)
Injection System	Screw motor	INTERMOT (Italy)

FREE SPARE PARTS FOR FREE(FOR REFERENCE ONLY)

Item	Part Name		Qty	Remark
1	Injection nozzle		1	
2	Long injection nozzle		1	
3	Material distributor		1	
4	Collar	Nozzle head	1	

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5	Gasket		1	
6	Heater		3-4	
7	Thermocouple		1	
8	AC Contactor		3	
9	O Ring	NOK/Japan	1 set	
10	Oil Seal	NOK/Japan	1set	
11	Dust Seal	NOK/Japan	1set	
12	Pressure Meter		1	
13	Shock Proof Pad		6-8	
14	Mold clamp		6-8	
15	proximity switch		1	
16	Limit Switch		1	
17	Thermal Relay		1	

Main Technical of Dryer



Model	300kg(HXD-300Kg)
Diameter	Φ920mm
Height	1620mm
Capacity	150KG
Heater power	13KW
Blower power	500W
Applicable injection	>60oz.

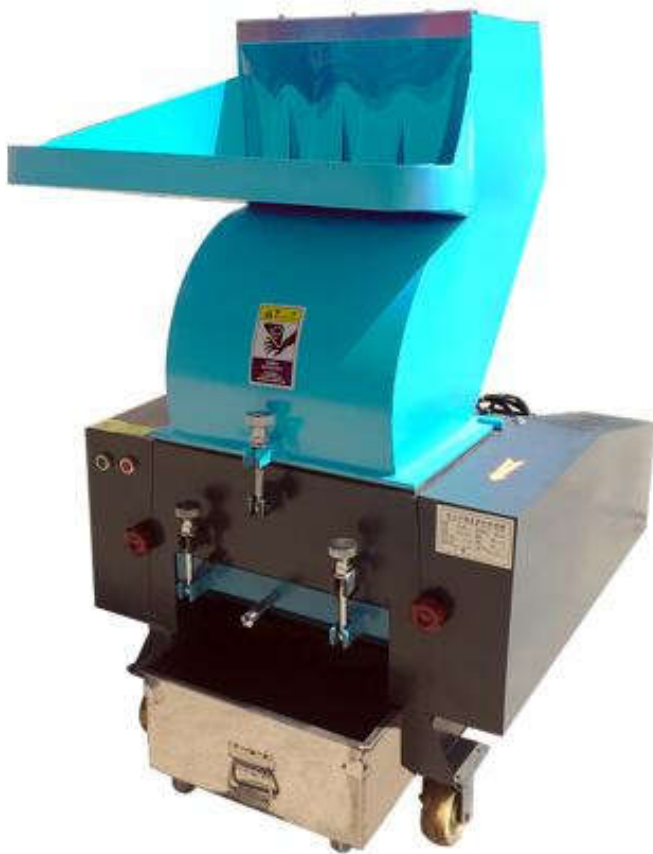
Main Technical Data of Auto Loader



Model		XTL-800GN
Motor	Type	Induction
	Specification	1100W3φ
Conveying Capacity		450kg/hr
Static wind pressure(Max)		1450mmAq

Filter		φ188*115H
Volume of material hopper		6.5L
Inside diameter of conveying pipe		φ38mm
Exterior dimension	Main body HWD	680*370*500mm
	Material hopper HWD	430*440*295mm
Weight	Main body	35kg
	Material hopper	6kg

Main Technical Data of Plastic Crusher



Model	XFS-230
Power	3.75KW



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Quantity of rotating blades	9
Quantity of fixed blades	2
Screen size(mm)	φ8
Weight	230kg
Max. breaking capacity (kg/hr)	130-250
Size of feeding inlet(mm)	230*160
Exterior dimension(mm)	930X630X1230

Main Technical Data of Water Chiller



Model	20WCI
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4.4/38℃ Cooling capacity(Kcal/h)		17544
Compressor		All-closed vorticity
Compressor power (Kw)		6
Refrigerant		R22
Chilled water pump power(KW)		1
10℃ Max. flow rate of chilled water(L/min)		200
Flow water inlet and outlet pipe		1.5"
Condensing water rate L/min		≥135
Chilled water inlet and outlet pipe		1"
Exterior dimension	Length(mm)	1500
	Width(mm)	700
	Height(mm)	1150
Water tank capacity	L	200
Weight	Kg	320

Color Mixer





Characteristic:

The barrel body and mixing blades are made of high quality stainless steel, no matter what the water will not rust.

Large capacity, just open the switch will automatically stir, simple operation, to ensure safety.

The machine is directly driven by the motor, fast mixing speed and high efficiency.

This machine is the old brand for many years, due to the high quality and low price, never rust, by the majority of customers trust and recognition, because the use of this mixing machine customers too much, so the model All, is a kind of economic type of vertical plastic mixing machine, the purchase of this machine is absolutely let you buy at ease with the heart, our after-sales service is one year warranty.

Product specification

Model	Motor Power (W)	Diameter (mm)	Round (r/min)	Production Capacity(kg)
PA-50	750	80	60	50

Water Cooling Tower





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	Model	DTA	WY-40T
date	Runoff	m ³ /h	31.21
	Air volume	CMM	280
	Motor	KW	1.50
	Noise (16m)	DbA	56.5
	Suttle	Kg	130
	Move weight	Kg	550
Pipe Line	Water inlet	WI	80
	Water outlet	WO	80
	Over flow	OF	25
	Tonnage	DR	25
	Flow valve	FV	15
height	Tower	TH	2040
	Motor	MH	200
	Casing	CH	1255
	Enterwind	AH	245
	Water basin	WH	340
	Water inlet	IH	175
	Water outlet	OH	115
	Ground work	FH	300
Diameter	Exhaust fan	ED	930
	Water basin	WD	1650

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	Ground work	FD	1180
	Screw	CD	10×4
Dimension	Ground work	FS	300
	Ground work	FC	
	L Plate L	PL	140
	W Plate W	PW	150
	C Plate C	PC	
	Screw	BC	835
	Plate Center	SC	150
	L Sock L	SL	780

PET Preform Mould

