

Single Batch 500L Brewery Solution

-----Shandong HG Machinery Co., Ltd.





Content

Design Basis	2
Company Strength & Technology Strength	3
Quotation	5
Detailed Equipment List	7
Quality Control Process	29
Company Introduction	34
Quality Inspection&Certificate	35
Package & Delivery	36
Customer Cases & Sales service	



Design Basis

Production Process

1. Designed according to the production process of 500L/batch craft beer, automatic operated, and daily output is two batches.

2. The mashing process adopts three-vessels model used in conjunction with ice water. The mashing process is automati c controlled, and the fermentation method uses automatedt emperature-controlled fermenter. Natural gas boilers for he -ating, and air-cooled refrigeration units for cooling.

What We Offer?

1.Confirm the craft flow and related parameters of the product (To offer craft flow chart)

2.Selection and matching of workshop equipment

(All of equipment models and specifications)

3. Production workshop area planning and production equipment

layout(To offer production equipment layout)

4. Help with other related utilities and auxiliary works.

ltem	Parameter	QTY
Wort capacity	500L/batch	
Ratio of main and auxiliary materials	100% malt	
Raw materials handing	300-500kg/h	1 set
Feeding		
Total feed: Malt	To be confirmed	
Cooker/Mash:		
Cool wort per batch	500L	
Batched per day	1 batch per day	
Boil period	70-90 min	
Boiling evaporation rate	8%-12%	
Wort cooling:		
Wort cooling type	Single stage	
Cooling medium	2-4 ℃	
Fermentation:		
Net volume of fermenter	500L	5 sets
Fermentation period	To be confirmed	
CIP	50L	1 set
Other		
Chiller	5HP	1 set
Boiler	50kg/h	1 set



Company Strength

- 20+ years industrial experience from malt milling to mashing and beer filling lines
- The largest turnkey project supplier in Mainland China, with global completed 296 turnkey projects in 2021
- 18,000+ sqm factory and 300+ staff providing First-class service and deliveries to make brewery equipments and beer filling lines better
- 120+ countries coverage, 18,000 sq meters factory area, 300+ staff

Technology Strength

- Advanced technique, better Lauter tun diameter design, patent automated controls system and energy saving in Automatic/semi-automatic/manual operation solutions
- Efficient raw material utilization; ensure beer quality and best economic benefits through mature technology
- Modularity and high integration saves your budget, smaller footprint, shorter installation time, and extremely fast operation.
- Comprehensive utilization of energy, energy saving



↓ HGMC汇冠

BEER CRAFT PROCESS





Quotation

	Equipment	Qty	
	Grist mill system		
01	Malt mill	1 set	
	Mash system		
	500L Mash tun	1 pc	
	500L Lauter tank	1 рс	
	Wort grant	1 рс	
	500L Kettle/Whirlpool tank	1 pc	
	Hops adding device	1 pc	
0.2	Mash pumps	2 sets	
02	6 m^2 Plate heat ex-changer	1 set	
	Wort Aeration Device	1 рс	
	Steam boiler	1 set	
	Flow meter	1 set	
	Pipeline and accessories	-	
	Work platform	-	
	Fermentation system		
	500L fermenters	5 pcs	
03	Yeast adding tank	1 pc	
	Sanitation Hoses	1 pcs	

↓ HGMC[®]E⊟

Refrigerating system			
	1000L Glycol tanks	1 set	
04	5HP Refrigerator unit	1 set	
	Glycol water pump	1 set	
	CIP system		
05	50L CIP System(2 tanks)	1 set	
	Control system		
06	Control system PLC touch screen	1 set	
	Filling system		
07	Keg washer&filler unit machine	1 set	
07	Cans filler 4-1	1 set	
Distiller			
08	300L distiller	1 set	

Options:

1. Change PLC control to PID control system: Cost decreased by USD2,900

2. Change manual butterfly valve to pneumatic valve: Cost increased by USD9,000

3. Change three vessels to two vessels: Cost decrease by USD 3,800

4. Change 200L distiller to 500L: Cost increase by USD 12000 USD

5. Steam generator could be used with electricity, natural gas and diesel.

A₽ HGMCIE

Notes:

1.This price is based on EXW.

2.Payment: 50%TT before production, 50%TT before shipment.

3. This quotation is valid within 30 days.

4.Time of delivery of the brewery equipment: 60 days.

5. Guarantee: 3 years for the tanks and 1 year for the electrical components.

6. Layout advice, visually 3D drawing, individually flow chart design etc. are provided for free.

Detailed Equipment List





Name	Parameters
Malt mill	♦ Capacity: 300-500Kg/h
	♦ Equipment type: roller type, motor, pulley, belt
41-HEHRCHER	♦ Material: stainless steel
	♦ Motor power: 2.2KW
	♦ The wight: 125KG
	♦ Size: 750×550×1300mm(L×W×H)
	Roller type: Double roller type, designed specifically for malt mill
	Accessories: Contains motor, motor mounts, rolls, shafts, bearings gear boxes, pulley, belts, etc.
	♦ Design: Roller width is adjustable, eliminate the noise.
	Advantages: Little dust, low noise, work environment has been greatly improved.
	♦ Function: Milling malt, the main raw material in beer production.

↓ HGMC[®]End

Mash Tun

- ♦ Material: Stainless steel 304
- ♦ Outline size: \$\phi1160 \times 2150mm
- ♦ Gross capacity:650L
- ♦ Useful capacity:500L
- ♦ Insulation thickness:80mm
- ♦ Inner-Jacket (SUS304) thickness:3.0mm
- ♦ External-Jacket (SUS304)thickness: 2.0mm
- ♦ Dish head for the tank
- ♦ With Spraying apple type washing ball
- ♦ With flow meter and liquid level sensor.
- ♦ The material in/outlet port on the bottom of tank
- ♦ With CIP cleaning port on bottom
- ♦ Temperature is controlled by thermometer blind tube
- LED sight light to observe inside conveniently, DN100, 24V
 100W
- ♦ With glass manway on the top
- ♦ Special design of motor threading pipe
- \diamond Motor reducer on the top of the tank

- ♦ Tank body is completed with dimple plate jacket
- ♦ Head brand: Beihai or Weide(best supplier in China)
- $\Leftrightarrow \quad \text{Heat exchange area: 0.5 } \ \text{m}^{\text{\tiny 2}}$
- ♦ The heating rate: 1°C/min
- ♦ Specially designed paddles for automatic blender
- Blender power: 0.75KW; Output speed:1-60RPM(frequency control)
- ♦ With height adjustment bolt component
- Polishing accuracy: 0.4um(three times polishing process)
- ♦ Pickling & passivation inside
- The inside and outside of the head and inner cone are sanding smooth and the rest are well protected.
- The welding seam is polished wit a fine sanding tape of 40mm, the legs are polished, and the outer cone and legs are fully welded.
- ♦ Argon shielded welding 100%
- Water-filled leak testing, jacket water pressure testing, the test pressure us 0.4Mpa. All testing keep for 48 hours

↓ HGMC[®]汇冠



↓ HGMC[®]End

Lauter Tun

- ♦ Material: Stainless steel 304
- ♦ Outline size: \$\phi1160 \times 2150mm
- ♦ Gross capacity:650L
- ♦ Useful capacity:500L
- ♦ Insulation thickness:80mm
- ♦ Inner-Jacket (SUS304) thickness:3.0mm
- ♦ External-Jacket (SUS304)thickness: 2.0mm
- ♦ Dish head for the tank
- ♦ With Spraying apple type washing ball
- ♦ With baffle on the top of the tank
- ♦ The material in/outlet port on the bottom of tank
- \diamond With backwash pipe and backwash port on bottom
- ♦ With CIP cleaning port on bottom
- ♦ With Backflow port
- ♦ Top with ring pipe for washing grain
- ♦ Temperature is controlled by thermometer blind tube
- ♦ LED sight light to observe inside conveniently

- \diamond With glass manway on the top
- ♦ Spent grain door on the tank body
- \diamond Special design of motor threading pipe
- \diamond Motor reducer on the top of the tank
- \diamond Tank body is completed with dimple plate jacket
- ♦ Head brand: Beihai or Weide(best supplier in China)
- ♦ Milling seive plate for false bottom
- ♦ Automatic raker with grain remover
- ♦ With height adjustment bolt component
- ♦ Polishing accuracy: 0.4um(three times polishing process)
- ♦ Pickling & passivation inside
- The inside and outside of the head and inner cone are sanding smooth and the rest are well protected.
- ☆ The welding seam is polished wit a fine sanding tape of 40mm, the legs are polished, and the outer cone and legs are fully welded.
- ♦ Argon shielded welding 100%
- ♦ Water-filled leak testing, jacket water pressure testing, the test pressure us 0.4Mpa. All testing keep for 48 hours

↓ HGMC汇冠



Advantages:The raker can deal with the spent grain vertically and horizontally. Good for the lauter. The raker is with chain. When the raker is not in use, just use the chain to lift the raker. The raker includes spent grain plate. Spent grain out automatically.

Milled sieve,4mm, load of sieve: 160-190kg/m², Filter gap 0.7mm, the thickness of the bottom plate is 10mm,the distance between the filter plate and the pot bottom is 2-5cm, which is evenly distributed at the bottom of the filter tank, connected with the distribution pipe, and equipped with nozzles and combined check valves, and the flow rate of each nozzle is 1m3 / h.

The sight glass is horizontal installed.

A₽ HGMCĽ⊟

Kettle/whirlpool tank

- ♦ Material: Stainless steel 304
- \diamond Outline size: ϕ 1160×2150mm;
- ♦ Gross capacity:700L
- ♦ Useful capacity:500L
- ♦ Heat exchange area: 0.5 m²
- ♦ Insulation thickness:80mm
- ♦ Inner-Jacket (SUS304) thickness:3.0mm
- ♦ External-Jacket (SUS304)thickness: 2.0mm
- ♦ Steam jacket is on the tank body and bottom
- ♦ Dish head for the tank
- \diamond With Spraying apple type washing ball
- ♦ With CIP cleaning port on bottom
- ♦ Material inlet on bottom
- ♦ Material outlet on bottom
- ♦ Whirlpool inlets on the tank body
- \diamond With drain outlet

- ♦ Top glass manhole
- ♦ Thermometer blind tube and PT100
- ♦ Top with exhaust port
- ♦ Indoor exhaust
- \diamond LED sight light
- ♦ With wire threading pipe
- ♦ Four legs with leg support plate
- ♦ With height adjustment bolt component
- ♦ Polishing accuracy: 0.4um(three times polishing process)
- ♦ Pickling & passivation inside
- The inside and outside of the head and inner cone are sanding smooth and the rest are well protected.
- ☆ The welding seam is polished wit a fine sanding tape of 40mm, the legs are polished, and the outer cone and legs are fully welded.
- ♦ Argon shielded welding 100%
- ♦ Water-filled leak testing, jacket water pressure testing, the test pressure us 0.4Mpa. All testing keep for 48 hours

▲ HGMC 汇冠



Heating way: steam heating automatic, PID temperature control, steam control valve, micro positive pressure boiling.

Exhaust way: indoor exhaust, with condensate recovery; the diameter of the upper steam discharge pipe is \mathcal{C} 159, the condensate collection device is added on the steam discharge pipe, and the drainage pipe is embedded in the insulation layer.

↓ HGMC[®]E⊟









Automatic raker



Grant wort (glass)

Pneumatic valve



Indoor exhaust

dr HGMC°£₽





· · · · · · · · · · · · · · · · · · ·	
	♦ Material: stainless steel 304
	flow: 3m3/h, lift:18m, 0.75kW, frequency control
Wort pump	 inletφ38,outlet:φ32, clamp connection
a a a a a a a a a a a a a a a a a a a	♦ Standard: DIN,SMS
The Ma	Impeller: open impeller, no sanitary dead angle
	♦ Working conditions: Sanitary centrifugal pump belongs to high and low liquid level and horizontal
3° ME SOUND	transmission, not self-priming type.
	Surface treatment: Polish the wetted part, and the rest is matte or sandblasted
	✤ Function:mash wort go into lauter tank, after lautering, wort coming into boiling tank
	♦ Qty: 1 set. Single stage
Plate heat exchanger	♦ Model: BR0.23/6 6 m ²
	\diamond Wort cooling: 8m ³ /h, the wort can be cooled from 98 $^\circ C$ to 10 $^\circ C$
	\diamond Brewing water temperature: the water can be from 3 $^\circ C$ to 65 $^\circ C$
	♦ Sealing material: Nitrile-butadiene rubber
	Clamp connection: With clamp connector
	\diamond Wort outlet: With bimetallic thermometer (0-100 $^\circ C$)
	\diamond Cooling medium: With 2 bimetallic thermometers in wort inlet (water from 0-100 $^\circ$ C, glycol water
¥.	from -50 ~ 50 °C)

A₽ HGMCĨE

♦ LZD0.1-0.4

♦ Power: 36kw

Electric Steam boiler





- ♦ Maerial: carbon steel
- ♦ Soft water device and automatic hydration
- ♦ Rated Evaporation: 50kg/h
- ♦ Highest Evaporation: 60kg/h
- ♦ Rated Pressure: 0.8Mpa
- \diamond Rated Steam Temperature: 175 $^\circ C$
- ♦ Water Volume: 24L
- ♦ Thermal Efficiency:100.18%
- ♦ 0-0.1Mpa Steam Output: 5mins
- ♦ 0-0.7Mpa Steam Output: 10mins
- ♦ Water Inlet Caliber : DN25
- ♦ Steam Caliber: DN40
- ♦ Drain Caliber: DN40
- ♦ Chimney Caliber: 150mm
- Safety Equipment: Lack of Water, Electronic Over-pressure, Mechanical Over-pressure, Leakage, Water
 Pump Overload Protection
- ♦ Energy Saving Configuration: Energy Saving Device, Condenser
- ♦ Control Configuration: Microprocessor Control, 3.2inch LCD, Pump Running Status, Water Level

↓₽ HGMCĽ⊟

	Monitoring, Pressure Level Display
Exhaust	♦ Material: stainless steel304
	♦ Indoor or outdoor exhaust
	♦ Material: stainless steel304
Brewhouse pipeline	♦ ISO: Φ51/Φ38/Φ32
	Satiary stainless steel valve and pipe, Single-sided welding and double-sided forming
	♦ WNG/WNY(0~100°C)
Wort thermometer	♦ Material: glass/06Cr19Ni10
	♦ SS sleeve
Ovuganata dovica	♦ SUS304 ,Flow rate control, uniform dissolved oxygen;
Oxygenate device	♦ Heating plate exchanger wort outlet
Carbonation stone	♦ Material: Titanium
Carbonation stone	 Filtration accuracy: 0.45μm; Port size: M12
Measuring barrel	
Saccharometer	♦ 10°20°
Grain rake	♦ SUS304, L=1300
work platform	♦ Made by SUS304 Checkered board



Deatils for Fermentation & Chilling System		
	♦ Material:SS304;	
	 Overall dimensions(mm): φ1060×2250(adjustable); 	
Fermenter	♦ Gross capacity:700L, useful capacity:500L;	
	Heat exchange area:1.6m2;	
	♦ Insulation: Polyurethane	
	Insulation thickness:80mm;	
	Inner jacket thicknesss: 3mm; external jacket stainless steel thickness 2mm, external jacket wire	
	drawing board	
	Mechanical pressure relief valve with pressure guage	
•	✤ Food Grade Aseptic Sampling Valve	
	♦ With drain outlet	
	Racking arm beer outlet and bottom outlet for optional	
	CIP washing tube and apple type washing ball	
	♦ Top manhole	
<u>x</u>	♦ Breathing valve on top of tank	
	♦ Carbon stone for CO2 charging	
	♦ Cooling jacket on cone and cylinder	
	♦ Automatic temperature control process	

↓} HGMCĽ⊟

	♦ Automatic pressure control process
	♦ Temperature measurement way: PT100
	♦ With height adjustment bolt component
	♦ Polishing accuracy: 0.4um(three times polishing process)
Th A DUC	♦ Pickling & passivation inside
	♦ The inside and outside of the head and inner cone are sanding smooth and the rest are well protected.
1	♦ The welding seam is polished wit a fine sanding tape of 40mm, the legs are polished, and the outer
	cone and legs are fully welded.
	♦ Argon shielded welding 100%
Æ	♦ Water-filled leak testing, jacket water pressure testing, the test pressure us 0.4Mpa. All testing keep
	for 48 hours
	♦ Usage: Wort is fermented in this container according to certain process
	♦ Material: SUS304
Yeast adding device	♦ Effective volume: 10L
	\diamond Inner shell is polished and outer shell stainless steel; the valves and accessories are matched
	 Φ32Internal diameter:Φ32
Food grade hose	♦ L=20m/pc, with hose connector
	♦ Material: PPR
Refrigerant pipeline	\diamond ϕ 32/ ϕ 25, including valves and pipe fittings
ι	

↓ HGMC[®]E⊟

Insulation pipeline	Material: polyethylene, ϕ 32/ ϕ 25 (Internal diameter) With PAP board and tape
	♦ Material: Stainless steel 304;
	 Outline size: φ1260×2250mm;
Glycol tank	♦ Gross capacity: 1200L, usefuly capacity 1000L;
~	Insulation layer: Polyurethane-thickness: 80mm
2	internal pickling of weld, external polishing sanding belt, matching valves and accessories;
	♦ With height adjustment bolt component
	 Polishing accuracy: 0.4um(three times polishing process)
	♦ Pickling & passivation inside
	♦ The inside and outside of the head and inner cone are sanding smooth and the rest are well protected.
	♦ The welding seam is polished wit a fine sanding tape of 40mm, the legs are polished, and the outer
	cone and legs are fully welded.
	♦ Argon shielded welding 100%
	♦ Water-filled leak testing, jacket water pressure testing, the test pressure us 0.4Mpa. All testing keep
	for 48 hours
	Uses: Used for heat exchange and temperature control of fermentation tanks.

d≯ HGMC°£₽

	♦ Material: assembly, (5HP), air-cooled refrigerator
Chiller	♦ Model: MG-5C(D)
I may	♦ Power supply: customized
	♦ Water temperature control: -10°C ~ +30°C
	♦ Power :6.5kW
	♦ Temp. range: -5 °C ~0 °C
	♦ Compressor type: Scroll type, Panasonic or Copeland
	♦ Refrigerant type:R407A
	♦ Evaporator type: Dry shell and tube type
	♦ Condenser type: Screw copper tube covered aluminum fins
	♦ Safety Protection:Compressor over current protection, overloadprotection, High/low pressure
No. Contraction of the second s	protection ,Phase sequence/phase missing protection,Anti freezing protection, Over temperature
•	protection, water flow protection.
	♦ Folw:3m3/h
Glycol pump	♦ Lift 25m;
	♦ Self-priming 220V 0.75kW heat exchanger; with stainless steel cover.
	♦ Material: PPR; ϕ 32/ ϕ 25,
Pipes and valves	♦ Including valves and pipes
	♦ Material: Polyethylene
Insulated pipeline	\diamond ϕ 32/ ϕ 25 (inner diameter) with PAP board and tape.
	1

↓PHGMC汇冠



A₽ HGMCĽ⊟

Detail for Controlling System		
	♦ Material: Stainless steel	
Control cabinet	♦ Dimension: 600×350×1500	
	♦ PLC control	
	♦ Fermentation system PLC control	
	♦ Mashing system PLC control	
	♦ Including power control, refrigeration control, fermentation control, mashing control, etc.	
	♦ Mainly used for automatic control of the whole system	
	\diamond Can automatically control fermentation temperature and ice water tank temperature	
	\diamond The control accuracy is ±0.1 $^{\circ}$ C	
	♦ Intensive, simple, easy to operate	
Contraction (Contraction)	♦ Wort Pump on/off by VFD; Hot water pump on/off; Rake knife motor on/off	
	♦ Temperature display and Auto heating Control for brewhouse	
and the second se	♦ Temperature display and Auto Control for FVs	
	♦ Separate control for each fermentation tank, temperature display control	
	♦ Each pump can be controlled individually	
	\diamond The control cabinet temperature exceeds 40 $^\circ \!\! \mathbb{C}$ protection function	





₩ HGMC汇冠

One head keg washer, filler unity machine



5.1 The machine features

1.1 This equipment is designed for stainless steel kegs of washing, sterilizing and filling. The process of washing, sterilizing, filling is finished automatically. The temperature of hot water and alkali is controlled automatically. Filling volume is controlled by high-speed positioning filling skill. it has the function of auto washing of pipeline. It is a high-quality products consist of washing and filling.

1.2 The control unit adopts the Germany's Siemens's control system to control the process. All control parameters (time value) can be adjustment without stopping the equipment.

1.3 Available to connect more than one machine together to reduce the invest.



Beer keg washing, filling unity machine parameter

Filling accuracy	5‰
Keg size	10L-60L
Capacity	10-40kegs/hour
Compressed air:	pressure>0.4Mpa
Wince resource pressure	0.25~0.4Mpa
Equipment size	900mm x1530mm x1950mm
Filling/washing nozzle	one/one
Size of plate form (mm)	525x640
Height of plate form (mm)	660
Outer size (mm)	900×1530×1950
The maximum stroke of the stopcock	300 mm
Weight	245kgs
Production capacity	30 kegs/H
Air consumption	4 – 11.5m³/H
Water consumption	0.5 – 1.5 m ³ /H
Power	1100W
Washing, filling method	inversion
Keg size	Diameter: φ250-500 Height: 400-660 mm



		ltem	Name	Specification	Qty	Material	Technical Parameter
No.					-		
		1	Pot Still	500L	1 piece	Jacket is Stainless Steel (SS) 304; Inner is Red Copper (C12200)	Gross Capacity: 580 L Effeciency Capacity: 500L Outlet: Φ350mm Manway Steam Jacket Heating Recommend Steam Energy: 50-60Kg/H Insulation thickness:50mm; Inner container shell thickness:3mm; 3mm,2mm; Plate surface protection, do a sanding polishing on welding line.
							Level gauge Sewage outlet
500L Distilling System	Main Machine	Accessories	Pot Still Accessories		1 piece	SUS304	Safety exhaust valve and pressure gauge Φ 300mm Full-view mirror glass pressure-resistant operating window; 8" Tri-clamp Port;
		2	Spher				8" Tri-clamp Port;
			Helmet	8" Diameter	1 set	Tri-clamp Port is Stainless	
		3	Agitator		1 set	SUS304	Mechanical agitation: cycloidal needle wheel reducer, Ex-750W/380V/50Hz-3PH; 60r/min
		4	Red Copper Still Column	8" Diameter	1 set	Red Copper (C12200) Tri-clamp Port is Stainless Steel	1000*Φ154mm- Five Tiers (Five Sight Glass) ; Twelve*25.4 mm Bubble Cap Three* 25.4mm Downcomer
			Red Copper Still Column	8" Diameter	1 set	Red Copper (C12200) Tri-clamp Port is Stainless Steel	2000*Φ204mm- Ten Tiers (Ten Sight Glass) ; Twelve*25.4 mm Bubble Cap Three* 25.4mm Downcomer

↓ HGMC[®]E⊟

	5	Delphlegmator	8" Diameter	2 piece	Red Copper (C12200)	250mm*Φ204mm;Φ204 mm Helmet With Thermometer;
	6	Gin Basket	8" Diameter	1 piece	SUS304	800mm * Φ 204mm. Sieve Tray: Φ 154mm-Holes Φ 2mm
	7	Condenser	10" Diameter	1 piece	SUS304	1000mm* Φ 254mm-19* Φ 10mm Tubes Exchange; Thickness is 2mm
	8	Beak Peak		1 Set	SS304	P
	9	Platform		1 piece	SS304	Length 1200mm*width 350*height 1200mm
	1	Combination of Pipeline&Valves		1 set		ISO: ^Ф 38mm
	2	Control Cabinet		1 set		
Accessory	3	Clean in Place(CIP) Pump	0.75kW	1 piece		380V/50Hz-3PH, 1.1Kw Lift: 24m/55.49ft Inlet: Φ38; Outlet: Φ19 Clamp Connection Size:500×250×300mm
	4	CIP Pipeline		1 set		ISO: Φ19



		ltem					
No.			Name	Specification	Qty	Material	Technical Parameter
							Gross Capacity:360 L
							Outlet: Ф300mm Manway
							Steam Jacket Heating
						Jacket is Stainless Steel	Insulation thickness:50mm;
							Recommend Steam Energy: 20-30 Kg/H
		1	Pot Still	300L	1 piece	Copper (C12200)	Inner container shell thickness:3mm; 3mm,2mm; Plate
							surface protection, do a sanding polishing on
							welding line.
							Level gauge
							Sewage outlet
						SUS304	Safety exhaust valve and pressure gauge
300L		Accessorie Pot Still s Accessories	Pot Still	1 pi	1 piece		Φ 300mm Full-view mirror glass pressure-resistant
Distilling	Main		Accessories				operating window;
	Machine						6" Tri-clamp Port;
System		2				Red Copper (C12200)	6" Tri-clamp Port;
			Spher Helmet	6" Diameter	1 set	Tri-clamp Port is Stainless	2" Tri-clamp Port*2;
							1.5" Tri-clamp Port;
							With SMS76 Sight Glass
			3 Agitator		1 set	SUS304	Mechanical agitation: cycloidal needle wheel reducer,
		3			1 500		Ex-750W/380V/50Hz-3PH; 60r/min
		Red Copper Still Column	Red Conner				1000*Φ154mm- Five Tiers (Five Sight Glass)
			6" Diameter	1 set	Tri-clamp Port is Stainless	; Twelve*25.4 mm Bubble Cap Three* 25.4mm	
					Steel	Downcomer	
		4	4 Red Copper Still Column			Red Copper (C12200)	2000*Φ154mm- Ten Tiers (Ten Sight Glass)
				6" Diameter	1 set	Tri-clamp Port is Stainless	; Twelve*25.4 mm Bubble Cap Three* 25.4mm
						Steel	Downcomer

↓} HGMCĽ⊟

	5	Delphlegmator	6" Diameter	2 piece	Red Copper (C12200)	250mm*Φ154mm;Φ204 mm Helmet With Thermometer;
		Gin Basket	6" Diameter	1 piece	SUS304	600mm * Φ 154mm. Sieve Tray: Φ 154mm-Holes Φ 2mm
	7	Condenser	8" Diameter	1 piece	SUS304	1000mm* Φ 204mm-19* Φ 10mm Tubes Exchange; Thickness is 2mm
	8	Beak Peak		1 Set	SS304	P
	9	Platform		1 piece	SS304	Length 1000mm*width 350*height 1200mm
	1	Combination of Pipeline&Valves		1 set		ISO: Ф 38mm
	2	Control Cabinet		1 set		
Accessory	3	Clean in Place(CIP) Pump	0.75kW	1 piece		380V/50Hz-3PH, 0.75Kw Lift: 16m/55.49ft Inlet: Ф38; Outlet: Ф19 Clamp Connection Size:500×250×300mm
		CIP Pipeline		1 set		ISO: Φ19

A₽ HGMCĽ⊟

Process Quality Control



- Strict quality control: raw material test, check on blanking , welding and polishing, tank pressure test and installation test, etc.
- > Professional machineries and tools are equipped for process QC.

↓ HGMC[®]E⊟

Production tools	Function	Finished product
	Automatic welding machine Perfect and uniform longitudinal welding seams high tensile resistance, less oxidation and longer X-ray testing to avoid any welding defects. Fast cooling of welding seams to avoid deformations.	
	Automatic punching machine Automatic formation of dimple jackets as to design uniform shaping and punching without damages.For high pressure testing and durability.	

↓P HGMC[®]E₽



↓PHGMC[®]汇冠



↓ HGMC[®]汇冠





COMPANY INTRODUCTION



Shandong HG Machinery Co., Ltd is founded in 2012, more than 18000 square meters work-house. HG Company specializes in designing, researching and manufacturing fully automatic and semi automatic beer, beverage and the other liquid production and filling line. HG company has more than more than 22 years experienced engineers in brewery industry, and owns more than 79 innovation patents. Products are sold to USA, Canada, Australia, Europe and South Africa etc, more than 150 countries and areas.

↓ HGMC汇冠

QUALITY INSPECTION & CERTIFICATES



HG company has ISO 9001: 2016 quality system international certification, CE certification, UL certificationSGS certification. The company pays attention to technology research and development, and has been recognized by high-tech enterprises.

Tel: 0086-531-86418668 Fax: 0086-531-86418868 Http://hgbeerequipment.com

4₽ HGMC 汇冠

PACKAGE & DELIVERY



Container loading (20GP, 40GP & 40HQ)

• Packed with plastic film and Iron frame for main tank, Fittings use iron cabinet

Customer's requirements available

↓} HGMC汇冠

CUSTOMER CASE



Tel: 0086-531-86418668 Fax: 0086-531-86418868 Http://hgbeerequipment.com

↓ HGMC 汇冠

SALES SERVICE

Pre-sales



- ► Free consultation service
- Project planning and design services
- Layout: Send us your building floor plan, sketch, we can provide you with layout
- Technical drawingsWe will offer the drawings of every tanks according to your requirements.
- 3D layout: To make sure you have a more intuitive experience.

After-sales



- We can provide weekly production report to let you clear of production progress and details
- > Will do equipment test and test report available for you
- Help you to arrange transportation till to your location
- Providing pipelines connection drawings and operation manuals
- Providing installation, debugging and training service

Main machine guarantee for two years, electronic components have one year free warranty. Supply lifetime maintenance and technical service.

↓} HGMCĽ⊟