1.1: Malt Rolling Miller

Function: Grain crushing Crushing Ability:500-800 Kg/h;

Model:5A

Power:3.0KW; Motor brand is Shuangjia

Shell: carbon steel.

Double rollers, material: Alloy

Rollers gap adjustable; Max roller speed: 700RPM Ratio of magnetic metal material: \leq 0.003G/KG Temperature of rollers after running: \leq 56°C.

Manufacturer: Shandong ShuangJia

New type double rollers malt miller, equipped with motor, belt pulley, belt, hopper,etc.

Automatically remove the iron and dust, Low noise.

Dimensions: 800×800×1600mm

Net weight: 170 KG



1.2: Flexible Auger

Flexible Auger

Function: conveyor the malt from miller to mash tun

Material is stainless steel;

Filling height is based on the brewhouse height

Filling ability:500-1000 kg/hr;

Power: 2.2KW PVC pipe ABB Motor

380V/3phase/50HZ Max length is 8m. Brand: Xinwei



Auger controller

Control the malt miller on / off

Adjust the rate of auger transfer machine, so with VFD

Malt miller and auger motor on/off and VFD control

Achieve the positive and negative rotation of auger transfer machine

Prevent the grain leave over the auger transfer machine



1.3 Hydrator

Material: SUS304 with CIP spray ball

100% TIG welding with pure argon gas shield

Conical bottom

Tri clamp connection



1.4 1000L Two Vessel/HLT Brewhouse [LT+MKWT+20HL HLT]

1-1000L Lauter Tun

Function: Grain Lautering and sparging

Tank Capacity: 1000L (+25% Headspace minimum)

Dimension: Φ1460mmx2600mm

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm Dish head:SUS304 full welded; TH=3mm 100% TIG welding with pure argon gas shield

Interior Finish: Completely acid washing and passivation Inside polishing to $0.4 \sim 0.6 \ \mu m$ without dead corner

Insulation: Rock wool; TH=80mm Heating: No (Steam for optional)

Steam Jacket: No (Dimple plate for optional)

Dished top and flat bottom

Grain rake with Danfoss VFD controlled 2.2KW ABB motor and turbine reducer on top of tank

Spent grain dozer manual lifted

Top mounted Glass manhole door, with logo

Side mounted grain out door with grain chute

Top mounted 360° coverage CIP spraying ball and port TC

Easyclean and detachable sparging spray ring and port TC on top

Wort circulation inlet TC on top

With lamp

Stainless steel laser cutting False Bottom/Filter

Wort outlets TC with extended collection rings

Back pressure flushing device under false bottom with nozzels

Wort outlet TC

Thermowell for high accuracy temperature sensor

4pcs completely SUS304 heavy duty legs with leveling pad

2-1000L Mash/Kettle/Whirlpool Tun

Function: Grain mashing, Wort boiling, hopping and whirlpool

Tank Capacity:1000L (+30% Headspace minimum)

Dimension: Φ1460mmx2720mm

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm Dish head:SUS304 full welded; TH=3mm 100% TIG welding with pure argon gas shield

Interior Finish: Completely acid washing and passivation Inside polishing to $0.4 \sim 0.6 \ \mu m$ without dead corner

Insulation: Rock wool; TH=80mm

Heating:direct fire heating with firebox

Steam Jacket: No (Dimple plate for optional)

Agitator with Danfoss VFD controlled 1.5KW ABB motor and turbine reducer on top of tank

Dished top and conical bottom

Top mounted Glass manhole door, with logo

Top mounted 360° coverage CIP spraying ball and port TC

Glass liquid level c/w sample valve

Steam condensor with spray nozzles

Thermowell for high accuracy temperature sensor

Wort inlet TC on top

Side tangential whirlpool inlet TC

Wort outlet TC on side of the bottom cone

With lamp

Discharge port TC and arm with butterfly valve

4pcs completely SUS304 heavy duty legs with leveling pad



3-2000L Hot Liquor Tank

Function: Hot water supply for mashing, sparging, cleaning

Tank Capacity:2000L (+15% Headspace minimum)

Dimension: Φ1460*2900mm

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm 100% TIG welding with pure argon gas shield

Interior Finish: Completely acid washing and passivation Inside polishing to 0.4~0.6 µm without dead corner

Insulation: Rock wool; TH=80mm
Heating:direct fire heating with firebox
Steam Jacket: No (Dimple plate for optional)

Conical top and conical bottom

Stainless steel top mounted manhole and door

Top mounted 360° coverage CIP spraying ball and port TC

Glass liquid level c/w sample valve

Thermowell for high accuracy temperature sensor

Recovery water inlet TC

Water injection inlet TC with end cap

Overflow port TC

Discharge port TC and arm

4pcs completely SUS304 heavy duty legs with leveling pad



4-Sanitary wort and hot/cold water pump

Model: SFB5-1.5 -140 Flow 5m3/h, lift 24m Sanitary SUS304 Capacity:5000L/h

Power: 1.5KW, motor Brand is ABB, TEFC Motor (totally enclosed, fan cooled), with CE certification

open impeller

Inlet $\ensuremath{\cancel{C}}$ 51, outlet $\ensuremath{\cancel{C}}$ 38, tri-clamp quick-installed

Voltage: 380V/3phase/50HZ With heat dissipation channel

Hard pipings: Sanitary SUS304; Self-draining

Complete valves, fittings and all parts

Brand: Liyang Sifang



Inline sight glass for checking wort clarity and color
15 meter sanitary reinforced brewery hose with TC adaptors

Every weld to a smooth sanitary finish

Stainless steel pneumatic valve connect brewhouse pipeline.





6-Work Platform

Non Slip design

Material is SUS304

Match the brewhouse and HLT structure

Integrated and evenly height stairs or ladder

Platform can be detachable

the leg with adjustable bolt and base plate

The distance between platform and tank is 10mm, and with 50mm height baffle

With controller bracket on the platform, in order to place controller.

Grate platform



Function: Wort cooling
Single stages for cold water

BR0.1/ 10 m²

Design Structure: Suspension type

screw material is SUS304, nut material is brass

Stainless steel 304 material Design pressure:1.0 Mpa; Working temperature:140°.

Wort inlet and outlet diameter is $\phi 38\,$

Cold water inlet and outlet diameter is $\phi 38$

8-20L balance tank with level sensor

Function: Buffer tank avoiding negative pressure in lauter tun

Volume: 20L

Material: SUS304 balance tank with sight glass

Wort inlet with butterfly valve at bottom

Wort outlet TC at bottom

Vent port to top of wort balance tank

Included Level sensor

9-Wort Aeration Device

With 4pcs Butterfly valves

Wort thermometer

Venturi

Sight glass

Aeration device

Tri clamp and fitting included









10-Yeast Feeder

Function: Inline yeast pitching for fermentable wort

Volume: 20L Material: SUS304

Flange manway, diameter: 250mm

Bottom wort outlet

Adding dry yeast into yeast doser

11-Flowmeter

Position: one is on cold and hot water mix, one is for circulation process of lauter tun, one is on the heat exchanger.

Flow:6M3/h U:10-30V DC Out:200mA





1.10 Brewhouse PLC control panel

Function: Brewhouse controlling Cabinet Material: SUS304

PLC Siemens S7-200 Control System

Siemens touch screen display

Assembling Style: on the brewhouse platform

Electrical Components: World wide brand CE certification

Show and control the temperature of the Brewhouse, hot water tank, cold water tank

Brewhouse pump, hot water pump, cold water pump and valves are actuated from control panel

With 5pcs VFD, one pcs works for raker, one pcs works for agitator, one pcs works for one wort pumps, one pcs works for hot liquor pump, one pcs works for cold liquor pump

No automation (recipe) control

VFD brand is Danfoss

Low-voltage electrical brand is Schneider



1.11 Fermentation PID Control panel

Function: Fermentation controlling

Cabinet Material: SUS304

Consecutive arrangement instrument panel Assembling Style: floor type / wall hanging

Hot water pump and cold water pump on/off and VFD control Show and control temperature of FVs and BBTs and CLT and GLT

On / off solenoid valve automatically

VFD brand is Danfoss

Low-voltage electrical brand is Schneider Electric elements with CE certificate



1.5 1000L Fermentation Tank-Polished dome

Tank Capacity: 1000L (+25% Headspace minimum)

Dimension: $\Phi1260*2600mm$

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm Dish head: SUS304 full welded; TH=4mm Inner Cone: SUS304 full welded; TH=3mm 100% TIG welding with pure argon gas shield

Interior Finish: Sanitary 2B finish, Pickled and Passivated; (Mirror finish optional)

Exterior Finish: Oil brushed finish (2B, Mirror finish optional)

Dish head is mirror polished

Interior full polished to 0.4~0.6 µm without dead corner Insulated with high density Polyurethane foam; TH=80mm

Glycol Jacket: Dimpled plate on cone and side

Stringent tank leakage test by water and pressured gas Stringent Jacket leakage test by water and pressured gas

Dished head and 60 degree cone bottom

Sanitary side mounted manway with pressured door TC connected CIP arm with 360° coverage spraying ball

CO2 blow-off arm with butterfly valve Full sanitary metallic sealed sampling valve

Spunding valve on CO2 blow-off arm

Hydraulic shock pressure gauge on CO2 blow-off arm Rotating racking arm and port on cone with butterfly valve

Tri clamp discharge arm with butterfly valve

Thermowell for high accuracy temperature sensor

4pcs completely SUS304 heavy duty legs with leveling pad and legs support

Complete valves, fittings and all parts Dry hopping port 4" TC with solid end cap

PVRV on the top of tank

1.6: 2000L Fermentation Tank-Polised dome

Function: Wort Fermentation or maturation

Tank Capacity: 2000L (+25% Headspace minimum)

Dimension: Φ1600*3100mm

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm Dish head:SUS304 full welded; TH=5mm Inner cone:SUS304 full welded; TH=3mm 100% TIG welding with pure argon gas shield

Interior Finish: Sanitary 2B finish, Pickled and Passivated; (Mirror finish optional)

Exterior Finish: Oil brushed finish (2B, Mirror finish optional)

Dish head is mirror polished

Interior full polished to 0.4~0.6 µm without dead corner Insulated with high density Polyurethane foam; TH=100mm

Glycol Jacket: Dimpled plate on cone and side

Stringent tank leakage test by water and pressured gas Stringent Jacket leakage test by water and pressured gas

Dished head and 60 degree cone bottom

Sanitary side mounted manway with pressured door

TC connected CIP arm with 360° coverage spraying ball

CO2 blow-off arm with butterfly valve Full sanitary metallic sealed sampling valve

Spunding valve on CO2 blow-off arm

Hydraulic shock pressure gauge on CO2 blow-off arm

Rotating racking arm and port on cone with butterfly valve

Tri clamp discharge arm with butterfly valve

Thermowell for high accuracy temperature sensor

4pcs completely SUS304 heavy duty legs with leveling pad and legs support

Complete valves, fittings and all parts

Dry hopping port 4" TC with solid end cap

PVRV on the top of tank





1.7: 1000L Bright Beer Tank--Polised dome

Function:Beer maturation/conditioning/serving/filtered beer receiving

Tank Capacity: 1000L (+20% Headspace minimum)

Dimension: Φ1260*2300mm

Interior Shell: SUS304 full welded; TH=3mm
Exterior Shell:SUS304 full welded; TH=2mm
Double Dish head: SUS304 full welded; TH= 4mm
100% TIG welding with pure argon gas shield

Interior Finish: Sanitary 2B finish, Pickled and Passivated; (Mirror finish optional)

Exterior Finish: Oil brushed finish (2B, Mirror finish optional)

Dish head is mirror polished

Interior full polished to 0.4~0.6 µm without dead corner Insulated with high density Polyurethane foam; TH=80mm Glycol Jacket: Dimple plate on side wall and bottom dish head Stringent tank leakage test by water and pressured gas Stringent Jacket leakage test by water and pressured gas

Dished head and bottom

Sanitary side mounted manway with pressured door TC connected CIP arm with 360° coverage spraying ball

Full sanitary metallic sealed sampling valve Mechanical safe valve PVRV 2 bar on CIP arm

Carbonation port TC with stone

Hydraulic shock pressure gauge on CIP arm

Tri clamp discharge arm with butterfly valve

Thermowell for high accuracy temperature sensor

4pcs completely SUS304 heavy duty legs with leveling pad

With liquid level sight tube

Complete valves, fittings and all parts

1.8: 2000L Bright Beer Tank--Polised dome

Function:Beer maturation/conditioning/serving/filtered beer receiving

Tank Capacity: 2000L (+20% Headspace minimum)

Dimension: Φ1600*2650mm

Interior Shell: SUS304 full welded; TH=3mm
Exterior Shell:SUS304 full welded; TH=2mm
Double Dish head: SUS304 full welded; TH=5mm
100% TIG welding with pure argon gas shield

Interior Finish: Sanitary 2B finish, Pickled and Passivated; (Mirror finish optional)

Exterior Finish: Oil brushed finish (2B, Mirror finish optional)

Dish head is mirror polished

Interior full polished to 0.4~0.6 µm without dead corner Insulated with high density Polyurethane foam; TH=100mm Glycol Jacket: Dimple plate on side wall and bottom dish head Stringent tank leakage test by water and pressured gas Stringent Jacket leakage test by water and pressured gas Dished head and bottom

Sanitary side mounted manway with pressured door TC connected CIP arm with 360° coverage spraying ball

Full sanitary metallic sealed sampling valve

Mechanical safe valve PVRV 2 bar on CIP arm

Carbonation port TC with stone

Hydraulic shock pressure gauge on CIP arm

Tri clamp discharge arm with butterfly valve

Thermowell for high accuracy temperature sensor

4pcs completely SUS304 heavy duty legs with leveling pad

With liquid level sight tube

Complete valves, fittings and all parts





1.9 Glycol Cooling Unit [1000L GWT +2000L CLT+ 2x5HP Chiller + Pipeline]

1000L Glycol Water Tank

Function: Glycol water supply for wort cooling and fermentation cooling

Tank Capacity: 1000L (+15% Headspace minimum)

Dimention: Φ1260x2100mm

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm 100% TIG welding with pure argon gas shield

Interior Finish: Sanitary 2B finish, Pickled and Passivated; (Mirror finish optional)

Exterior Finish: Oil brushed finish (2B, Mirror finish optional) Interior full polished to 0.4~0.6 μ m without dead corner Insulated with high density Polyurethane foam; TH=80mm

Stringent tank leakage test by water Insulated conical top and bottom

Top mounted stainless steel manway with door Thermowell for high accuracy temperature sensor

With liquid level sight tube

Discharge arm with butterfly valve

4pcs completely SUS304 heavy duty legs with leveling pad

Glycol water inlet and outlet

2000L Cold Liquor Tank

Function: Cold water supply for wort cooling

Tank Capacity: 2000L (+10% Headspace minimum)

Dimension: Φ1460*2650mm

Interior Shell: SUS304 full welded; TH=3mm Exterior Shell:SUS304 full welded; TH=2mm

Interior Finish: Sanitary 2B finish, Pickled and Passivated; (Mirror finish optional)

Exterior Finish: Oil brushed finish (2B, Mirror finish optional) Interior full polished to $0.4\sim0.6~\mu m$ without dead corner Insulated with high density Polyurethane foam; TH=80mm

Glycol Jacket: Dimple plate on bottom and side

Conical top and conical bottom

Stainless steel top mounted manhole and door

Top mounted 360° coverage CIP spraying ball and port TC

Glass liquid level c/w sample valve

Thermowell for high accuracy temperature sensor

Recovery water inlet TC

Water injection inlet TC with end cap

Overflow port TC

Discharge port TC and arm with butterfly valve

4pcs completely SUS304 heavy duty legs with leveling pad





5P Glycol Water Chiller

Model: CA-5L

Refrigerating capacity: 6364Kcal/h,(7.4KW)

Input power: 4.86KW

Voltage: 380V/3Phases/50HZ;

Refrigerant: R407;

Controlling way: External balance thermostatic expansion valve;

Compressor type: Hermetic Scroll type (Piston);

Power: 3.75KW;

Condenser type: High efficient finned copper tube+ low noise outer rotor fan;

Air flow rate of condenser: 5000m3/h; Evaporator: Plate heat exchanger; Chilled fluid flow: 2.22m3/h;

Inlet/outlet pipe caliber: 1"; Water pump power: 0.75KW; Lift: 20m;

, , ,

Protection: Compressor overheating, over current, high and low pressure, over temperature, flow

switch, phase sequence, phase-missing, exhaust overheating, anti-freezing;

Compressor with CE certification

Weight: 175KG;

Dimension: 1140×560×1040mm; Brand: COOLSOON brand

Glycol Water Tansfer

Function: Glycol water and cold water circulation

Flow 3m3/h, lift 18m Sanitary SUS304 Capacity:3000L/h

Power: 0.75KW, motor Brand is Fangli

open impeller

Inlet \mathcal{C} 38, outlet \mathcal{C} 38, tri-clamp quick-installed

Voltage: 380V/3phase/50HZ With heat dissipation channel

Pipeline connection

PPR pipes and fittings for glycol water pipeline (stainless steel for optional)

Matched connection piping fittings as design Insulation foam for supply and return loops

Stainless steel solenoid valves for glycol water inlet

Customerized piping design available







1.12: 100L Portable CIP Cart [Two Tanks]

100L Caustic Tank

Function: Caustic liquid heating and mixing

Tank Capacity: 100L

Dimension: Φ1400*600*1320mm Shell: SUS304 full welded; TH=2.0mm

Single wall without insulation Exterior Finish: Oil brushed finish

Interior full polished to 0.4~0.6 μm without dead corner Heating: electric heating with 4KW heating elements

Cone top and bottom

Top mounted stainless steel manhole with end cap IFM level sensor, in order prevent heating without water temperature probe (PT100) on side wall

100L Sterilization Tank

Function: Sterilization liquid mixing

Tank Capacity: 100L

Dimension: Φ1400*600*1320mm Shell: SUS304 full welded; TH=2.0mm Exterior Finish: Oil brushed finish

Interior full polished to $0.4 \sim 0.6 \ \mu m$ without dead corner

Single wall without insulation

Cone top and bottom

Top mounted stainless steel manhole with end cap

Liquid Transfer

Flow 5m3/h, lift is 24m Inlet φ38, outlet φ38 Stainless steel; power is 1.5kW Complete circulation piping and fittings semi-open impeller

CIP Controling Cabinet

Function: CIP controling

Brand: Liyang Sifang

Cabinet Material: stainless steel Assembling Style: hanging

Electrical Components: World wide brand CE certificated

CIP pump on/off

Temperature can be showed on controller IFM level sensor for anti dry-burner







Keg Washer-Semi Auto-Two tanks-NDLKWS-II

Function: Keg rinsing

Water Tanks: 2 Tanks (water tank+caustic tank)

Washing capacity: 40-60 Kegs/Hour

Applicable kegs: 5L-60L(Keg with Diameter 250-500mm Height 360-600mm)

Available Spear: A, G, S, D, (when order, customer need advise)

Power Supply voltage:

Customized, for example: 3 Phase, 415V, 50Hz (When order, customer need advise)

Heating mode: Electrical heating or Steam heating (When order, customer need advise)

Power: Steam heating: 3Kw Washing Method: Invert Washing

Automatically Washing, Sterilizing(steam heating), and CO2 pressure preparation

Working process:

Start(pressing)→ Water washing→ Caustic washing→ Hot water washing→ Hot water washing→ Steam sterilization(if

steam heating)→ CO2 pressurization→Stop

Weight: 450kg

Dimensions: 1220*1640*2220mm

The below electrical components in control box are certified with CE:

