

SST ULTRA HOMO MIXER 300L

- 1. Quotation
- 2. Terms & Condition
- 3. Specification
- 4. Drawing





Offer Sheet

Ref No.: SST-22-002-01 / Date: 2022-10-05

Messrs, SST Vietnam

ULTRA HOMO MIXER 300L

Product		Сара		Q	'ty	Unit Price		Amount	
1	ULTRA HOMO MIXER (PLC Touch)	300	L	1	EA			US\$	65,000
2	OIL & WATER AGITATOR	200	L	2	EA	US\$	12,000	US\$	24,000
3	WORKING PLATFORM (1st, All STS)			1	SET			US\$	12,000
4	PIPING UNIT (STS Pipe)			1	SET			US\$	14,000
5	IQOQ VALIDATION			1	SET			US\$	6,000
6	WOODEN PACKING&FOB BUSAN			1	SET			US\$	9,000
7	7 SUPERVISING INSTALLATION AND TRAINNING COST						US\$	4,000	
Total							US\$	134,000	

WOOWON Co.,Ltd.

M. R. Cho / President





Offer Sheet

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Messrs, SST

Terms & Conditions

1. Period of delivery

- 1.1 100days (From down payment to Shipping date)
- 1.2 Not including installation and SAT.

2. Terms of payment

- 2.1 40% Down payment
- 2.2 50% 2nd payment (After FAT, before shipping)
- 2.3 10% last payment (After SAT)

3. Required utility

- 3.1 Main Power (380, 50HZ, 3Phase) 3Phase electricity following a site condition.
- 3.2 Total required electricity 25KW
- 3.3 Compressed Air (5 bar per minute, Dry and without any dust such as oil and water.)
- 3.4 Steam or Hot water (Maximum 2bar)
- 3.5 Chiller or city water (Maximum 2bar)

4. Exclusion

- 4.1 Piping from utilities (a boiler or a chiller) to a manufacturing room.
- 4.2 Connection pipes from utilities to Woowon's piping unit.
- 4.3 Connection pipes from Woowon's Piping unit to a Mixer.
- 4.4 Lagging work for a pipes.
- 4.5 Connection pipes to water inlet and outlet of a vacuum pump.
- 4.6 Connection every drain pipes
- 4.7 Connection main power to Woowon's control panel.
- 4.8 Connection pipes or modification customer's raw material or water or utility pipes.





WOOWON Mixing System

- 4.9 Unpacking the wooden crate and discarder It.
- 4.10 Moving machines and a platform to the manufacturing room.

5. **FAT**

- 5.1 With reference to FAT, round trip air ticket and hotel shall be borne to customer, and transportation, meal & other things are shall be borne to Woowon.
- 5.2 Following Woowon's check list or customer's list, checking from the design to operation by water.

6. Installtion and SAT

- 6.1 With reference to SAT, round trip air ticket and hotel shall be borne to Woowon, and transportation, meal & other things are shall be borne to User.
- 6.2 By riggers (Movers), a craine or a folk lift, setting up the machine to the position with Woowon's supervising.
- 6.3 SAT (At site)
- -Operation test by water.
- -Optimization the machine and operation and setting up every parameter.
- -Checking the specification and design.

7. Document

- 7.1 Manual (English) 1EA
- 7.2 Manual date with USB 1EA
- 7.3 Machine drawing
- 7.4 Electronic drawing
- 7.5 Specification
- 7.6 Operating manual
- 7.7 Maintenance Schedule
- 7.8 Spare part list

8. Quality warranty

- 8.1 1 Year warranty after SAT.
- 8.2 Supplying spare parts such as temperature sensor, Tank O-ring and ETC.



Specification

ULTRA HOMO MIXER 300L

	Name	Specification
1	Model	Ultra Homo Mixer-UHM300
2	Capacity	Full capacity: 390L
		Working capacity Max.: 300L
		Working capacity Min.: 90L
3	Material	Product contacted part: SUS316L
		Non contacted part: SUS304
4	Homo Motor	AC motor 7.5KW 2P, 500~3600RPM
5	Paddle Motor	Geared motor 2.2KW 1/10, 9~90RPM
6	Scraper Motor	Geared motor 1.5KW 1/15, 6~60RPM
7	Tank	Designed pressure and temperature condition
		Shell: Atmospheric pressure ~ Vacuum (-1bar)
		Jacket: 0~1.2 bar, 125°C
		Lamp: LED type
8	Vacuum	Watering AC motor 2.2KW
9	Hydraulic Unit	AC motor 2.2KW x 100LT
		Two cylinder
10	Frame	Frame: SS400, Cover: SUS304
11	Control panel	Button control, SUS BOX
12	Temp. control piping	Automatic temperature control (ON/OFF control)
		SS400 Pipes
13	Working platform	3640mmL x 2000mmW x 1500wwH
		Plate SUS304, Post SS400, Stairs SUS304

[#]These specifications are changeable by customer's offer.



Specification

AGITATOR 200L

	Name	Specification
1	Model	Agitator-AGI200
		Bracket type on the working platform
2	Capacity	Full capacity: 300L
		Working capacity Max.: 200L
		Working capacity Min.: 40L
3	Material	Product contacted part: SUS304
		Non contacted part: SUS304
4	Impeller	Bottom Disk Type
		AC motor 1.5KW 6P, 500~1150RPM
5	Tank	Designed pressure and temperature condition
		Shell: Atmospheric pressure
		Jacket: 0~1.2 bar, 125°C
		Open type
6	Temperature control	Heating only

[#]These specifications are changeable by customer's offer.



1. Homogenizer

Woowon Homogenizer mounted at the bottom of the vessel effectively works for small volume batches. This high powered homogenizer makes steady and high shearing force for effective homogenizing, emulsifying, mixing from low viscosity to high viscosity.

a. RPM RPM control by Inverter

b. Homogenizer Impeller Mark II Impeller

Down to Up Flow

Strong pumping force with high emulsifying ability

Suitable for liquid & liquid mixing



Homogenizer Motor & Impeller

Mark II Impeller Driving

c. Driving Method Direct Drive

d. Sealing Double type Mechanical Seal

Product Contacted Part Sic/Sic
Non Contacted Part Sic/Carbon
Cooling By city water

Safety equipment Pressure sensor for seal cooling water

If there is no pressure, homogenizer stops automatically.



2. Paddle & Scraper

The paddle and the counter rotating scraper mixes the product well at low speed. And during heating, cooling and deaeration, they help improving efficiency.

a. RPM RPM control by Inverter

b. Scraper Teflon (PTEF)

For the installation and de-installation of these scrapers no

Stainless steel safety and no screw in needed. The bottom scraper is fixed by a single bolt

c. Drive Method Bevel Gear (2:1) + Coupling

2:1 S.N.C.M Helical Type

e. Sealing Oil seal

Each shaft sealing rings are installed against over pressure

and vacuum



Paddle & Scraper





WOOWON Mixing System

3. Tank

a. Lid Dome type

b. Nozzle Stem in/ Water out

Water in/ Steam out Product Discharge

Temperature sensor (Bottom of a tank)

Lamp Hole

Manhole (With wiper)

Product Inlet Hopper CIP Ball

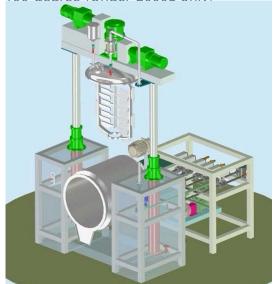
Vacuum Line

c. Buffing Mirror Polishing

Contacted Part: #400~320 Non Contacted Part: #200

d. Product discharge valvee. GasketManual Y-ValveSilicon packing

f. Tilting 100 dearee (Under 2000L only)



g. Jacket Design Pressure 2.2kg /m² Jacket Operating Pressure 1.2kg /m² h. Jacket Design Temperature 135℃

Jacket Operating Temperature 122°C

i. Shell Design Pressure 0.05Mpa ~ F.V.(min) Shell Operating Pressure 0Mpa ~ F.V.(min)

j. Shell Design Temperature 100℃ Shell Operating Temperature 80℃



WOOWON Mixing System

4. Vacuum

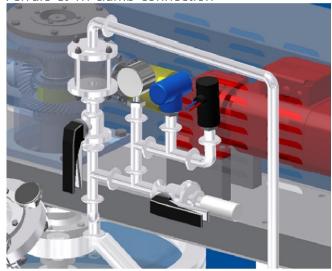
a. Range 0~760 mmHg (Max)

b. Vacuum device Vacuum glass
Pressure Gauge

Pressure Switch

Filter

Ferrule & Tri clamp connection



Vacuum Line

5. Hydraulic Lifting unit

a. Device Oil Tank

Pump

Check Valve Relief Valve Air Breather Suction filter

b. Safety device 3 Limit Switch for lid up & down

Pressure sensor for lid up & down

6.Frame

a. Material Frame SS400

Cover SUS304



7. Control Pannel

a. Material SUS304 BOX

b. Parts Inverter

NFB

Magnetic Relay

Temperature controller

Digital timer RPM indicator RPM controller Ampere indicator Signal lamp

c. Feature Main power on& off

Emergency switch
Driving part on& off
Driving part RPM control

Driving part Timer
Temperature control
Heating on& off
Cooling on& off
Vacuum on& off
Motor trouble

Hydraulic lift up& down (Lock by key) Cooling water for homogenizer trouble

#Electronic parts are following CE regulation.







8. Piping Unit

a. Material

b. Component Steam In

Steam Out Water In Water Out

Water In for cooling mechanical seal Water out for cooling mechanical seal

Jacket Drain

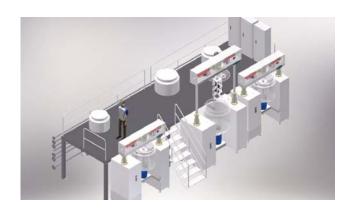
Air In

c. Parts Pneumatic Valve

Safety Valve Solenoid Valve Pressure Switch Y-Strainer Check Valve Bucket Trap

Regulator for air





9. Working Platform

a. Material

Post SS400

Plate SUS304 (Check plate)

Stairs SUS304 b. Type 1st floor



WOOWON Mixing System

1. Agitator

a. RPM

b. Agitator Impeller

RPM control by Inverter Bottom disk type



Disk type impeller

c.Driving Method

d.Sealing

Direct Drive

Multi one o-ring type Mechanical Seal

2. Tank

a. Lid Open type b. Nozzle Stem in

Steam out

Product Discharge

Temperature sensor (Bottom of a tank)

c.Buffing Mirror Polishing

Contacted Part: #400~320 Non Contacted Part: #200

d. Product discharge valve Automatic ball valve





#OPTION

1. 2nd Homogenizer

-You can use various type of homogenizer by product which is easy to change.



2. PLC TOUCH SCREEN

- -Easy to control. (Control is available in one screen)
- -Data Saving and copy by USB drive.



3. Additional Temperature sensor. (Or upper temperature sensor)

-For the more accurate temperature sensing, setting the sensor on the paddle shaft or at the place that costumer want is available.

4. Electroytic Polishing

-Removes iron or dust from the surface and enhances the chromium/ nickel content providing the most superior form of passivation for stainless steel.

5. Digital Recorder

-Saving every parameters are available such as RPM of every driving part, temperature and so on.







6. Paravisc

-It helps up-down flow especially density product or big size tank.



7. Load cell (Including a indicator)

-Weight a product inside the tank is available. Error range is ±1kg.



8. CIP system

-For the economical and comfortable cleaning, Woowon has various CIP system. By discussion with customer, exact specification is decided.

9. Automatic vacuum control by bubble sensor.

-During deaeration, this system prevent product overflow and make it easier.

10. EC sensor

-Checking the condition of product during mixing is available by not only user's visual check but also conductivity through EC sensor.

11. Pressure vessel certification.





WOOWON Mixing System

-Pressure vessel certification by Korea Energy Management Coperation.

12. IQ/OQ

-Supplying IQ/OQ by Woowon's document.

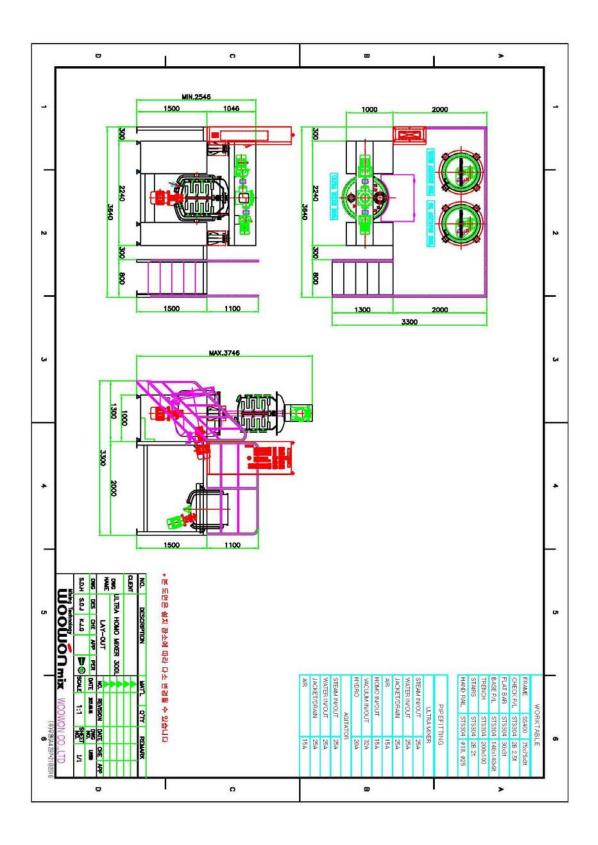
13. PID Temperature control

-For the more elaborate temperature control, we can provide PID control by using heat exchanger.





#Drawing





#Drawing

