



## Hangzhou Leisu Cleaning Equipment Co.,Ltd

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Top quality for car care machine





#### About Us:

Hangzhou Leisu Washing Equipment Company Limited service in auto car wash equipment industrial, is committed to providing high quality, high performance and high intelligence car automatic car wash system. We are supplying OEM and ODM services. With experienced professional technical team, we developed the stable quality and advanced fully automatic car wash systems. Continuous innovation concept helps us to become the pioneer and leader in car wash industrial in China.

Our Vision: to be the most professional manufacturer in car wash equipment industrial.

Our Mission: Base on customer oriented and committed to supply high quality and high intelligent equipment worldwide.

Our value: Continuous innovation, reliable and trustful cooperation, we believe that the quality is the life for an enterprise.

Our service conception: Rapidly, skilled and efficient, we believe attitude is everything, our goal: exceeding customers' expectation, beyond the industry standard.

We base on the domestic market and covering the market worldwide. We are building a comprehensive distribution net work, in order to make the equipment purchased and after sales service offered more facilitate for each customer.



## Workshop 5000 Square meter super clean workshop, Best in the machinery field



The high performance of machine come from design, material, process and manage

#### 1 Design

Considering the faults of welding by labor, Leisu 360 use the un-welding frame, the whole frame use 304# stainless steel screws to assembled which have long and stable life under the high speed running of main machine.

#### 2 Material

To ensure the machine running stable under the high load, the whole rotate Arm and all high precision Hydraulic seal parts, crane control cabinet and sheet metal component all used good quality 304# stainless steel.

#### 3 Cutting Process

All cutting use high precision Laser shearing machine to have 0.01mm tolerance, and 0.0025mm for double checking tolerance.

#### 4 Bending Process

All the frame load-bearing sheet metal forming adopts 400 tons pressure, and the electro-hydraulic servo CNC bending machine with effective bending length of 5 meters. The main cylinders on both sides of the machine are synchronously equipped with German imported electro-hydraulic servo valve and German HEIDENHAIN company grating ruler to have closed loop control, The feedback have high precision, accurate slider operation. Can fully meet the high precision requirements of the frame sheet metal. Parts sheet metal is processed by AMADA CNC bending machine imported from Japan, and each bending size is strictly controlled.

#### 5 Shape correction

Unlike most products in the market, our plates are laser-cut and also have a shaping leveling machine to Re-calibration and ensure the quality of the subsequent process products

#### 6 Welding process

Frames, electrical cabinets and other parts that need to be welded are all equipped with the most professional welding equipment. In order to strictly control the welding quality, each welding process has professional welding tools. Guarantee the verticality and parallelism of each component, and control the tolerance within 0.1mm

#### 7 Surface treatment process

The surface treatment method of the whole machine is strictly in accordance with the highest standard, and the surface of the frame rails adopt double-layer anti-corrosion method of galvanizing and powder coating. The closed zinc has a strong anti-rust ability, and the outdoor powder has the characteristics of high corrosion resistance and non-fading throughout the year. Although the double-layer anti-corrosion process increases the process requirements and production cost, it effectively extends the service life of the equipment.



## Leisu wash SG Model

**new!**

**爱车更靓丽**

**智能洗车机**

LEISU WASH TOUCH FREE SG 24h 自助洗车服务  
Self-serve Car Wash

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Leisu Wash SG True Touchless - Don't compromise!

# E4 Unattended

The Leisuwash SG rotary high-pressure nozzle can be freely rotated according to the contour of the vehicle. From the front of the car, the hood, the windshield, the top and the rear parts of the car, maintain a flushing distance of 35cm, give 100KG high pressure by water to car surface, all dirt be cleaned at once.



## PERFORMANCE, DEPENDABILITY AND QUALITY

# Leisuwash SG Automatic Car Wash Equipment

Car Wash Equipment the Revoluton of Car Wash Industry, Washing Cleaning is King !

### High pressure water up to 100 bar

In several stages two presoak chemicals are applied to the vehicle to soften up any crusted dirt, with our contouring application system the chemicals will be evenly applied to all areas of the car. It will automatically detect and identify all types of vehicles, contour following the car body at accurately 35cm distance, water is alternately supplied from horizontal arm or from vertical arm, up to 100 bar high pressure water with 15 nozzles could easily flushing away the dirt. Horizontal arm could go to really bottom and makes perfect cleaning at vehicle head and tail.



### Leisuwash SG OverGlow Hi-Gloss Lava Foam System

Bright active agent Biodegradation and can improve the decontamination effect, making the paint surface more beautiful and brighter. Fantastic colorful LED light will attract drivers off steet and onto your wash bay.



### Leisuwash SG High Pressure Side Wash with Duel Arm

German P+F ultrasonic sensor detection system ensures that the cleaning distance between two sides is 35 cm, and the horizontal arm or vertical arm alternately supply water.

### Guarantee Cleaning Distance of Both Sides 35 cm

The flushing pressure is up to 100 bars, and there are nine powerful American-made ejectors on both sides, which can effectively clean the side and bottom of the vehicle.



### Leisuwash SG Contour-following Pre-soak Application and Super High pressure Rinse

The development of the Leisuwash SG had one principle: a brushless machine should still deliver a great wash result ! The combined chemical applicator and high pressure bar do make this possible. It keeps an even distance to the car so that the chemicals can reach all parts of the vehicle in the same concentration. The combination of different chemicals will soften up even persistent dirt and the contouring high pressure system will clean it off easily.



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## Leisuwash SG Intergrated Air Drying System



Following the Leisuwash philosophy there is no great car wash without a great drying system. Leisuwash SG configuring three 5.5kw and one 4kw Siemens motors embedded in the washing machine, control the airflow by four cylindrical outlet, the first task is to split a bunch of wind air, reducing wind drag subsequent to follow airflow to dry the surface of the car body, complete drying the car within 50 seconds.



### Leisuwash SG Contour-following

The crossarm can reach the real bottom and clean the front and rear of the car perfectly.



### Leisuwash SG Spot Free Reverse Osmosis Water Rinse

Final rinse with reverse osmosis water can perform a spot free car wash, the crystal coating wax can be completely absorbed on the surface of the car body, with superior protection of car paint, and features anti-acid rain, pollution, UV erosion.

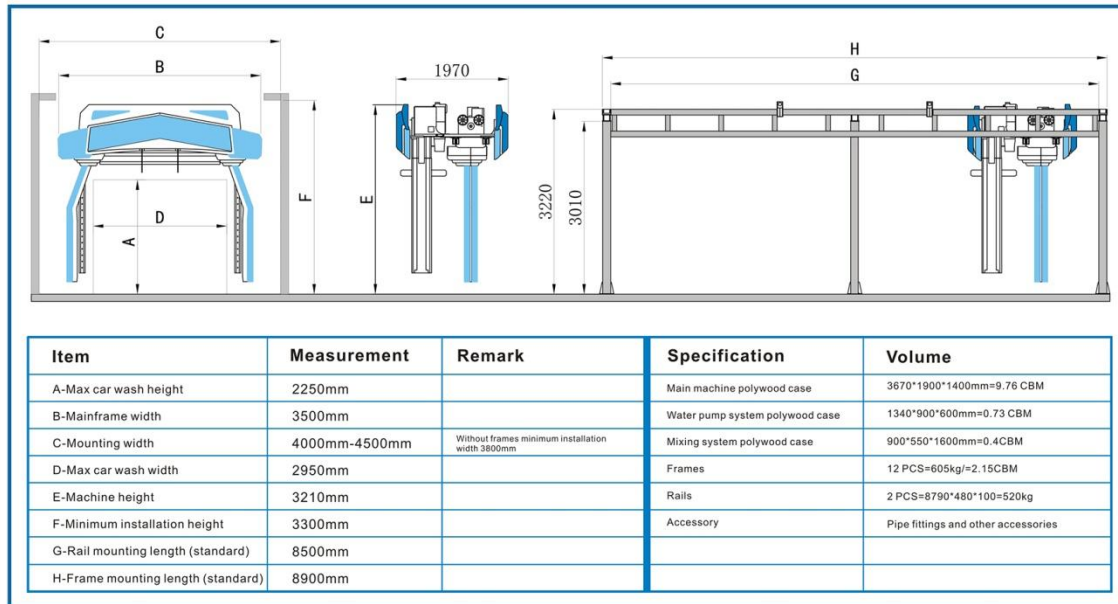
### Leisuwash SG 24 hours Self-Service Online Paying

Through the online payment with voice guidance system can achieve 24-hours self service car wash. In China people use WeChat or Alipay online paying, overseas customers can adopt local payment system work together with Leisuwash systems.

全国统一客户服务热线：400-800-7360 官方网址：www.leisu360.com

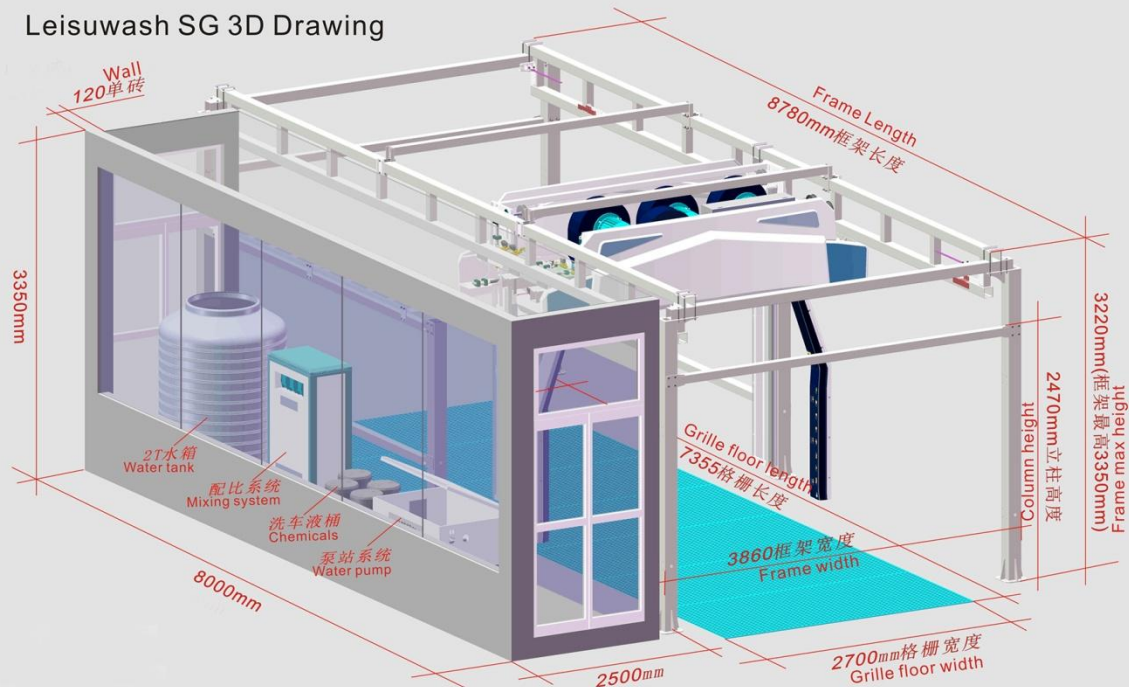


## Leisuwash SG Car Wash Equipment - Installation, Shipping Dimensions



leisuwash SG:≈13.8 m<sup>3</sup>/leisuwash SG≈3500kg

## Leisuwash SG 3D Drawing



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## Leisuwash SG Technical Parameters

Item	Parameters / Process / Brand / Energy	Configuration	leisuwash SG
Power requirement	380V/22Kw/50Hz	24 hours self service	<input checked="" type="checkbox"/>
Control system PLC	German Siemens industrial control PLC	Contour following high pressure flushing	<input checked="" type="checkbox"/>
Electrical components	French Schneider	Side high pressure flushing	<input checked="" type="checkbox"/>
Ultrasonic sensor	Germany B+F (original import)	Intelligent chemical mixing system	<input checked="" type="checkbox"/>
High pressure piston pump	Taiwan Wuli (original import)	Water wax glazing system	<input checked="" type="checkbox"/>
Pump motor	Germany Siemens aluminum motor	Intergrated air drying system	<input checked="" type="checkbox"/>
Air dryer motor	Germany Siemens aluminum motor	Voice guidance system	<input checked="" type="checkbox"/>
High-pressure hose	American Parker	LED prompt system	<input checked="" type="checkbox"/>
Engineering towline	Germany IGUS (original import)	Self-parking system	<input checked="" type="checkbox"/>
Towline cable	Germany IGUS (original import)	Digital safety collision avoidance system	<input checked="" type="checkbox"/>
Longitudinal/transverse timing belt	Italy MEGADYNE	Car wash quantity summary	<input checked="" type="checkbox"/>
Reducer	Italy SITI	Indoor and outdoor mounting frames	<input checked="" type="checkbox"/>
Wind drum / impeller	304 stainless steel (80 decibels / 40 decibels)	Car wash modes selection	<input checked="" type="checkbox"/>
Rotating arm	304 stainless steel	Faulty self-checking Function	<input checked="" type="checkbox"/>
Lifting device	304 stainless steel	Touch screen operation	<input checked="" type="checkbox"/>
Mainframe Rack	Hot-dip galvanizing + plastic spray (plastic powder)	Remote control operation	<input checked="" type="checkbox"/>
Mounting frame 160*160*4	Hot-dip galvanizing, welding unnecessary	Allpay / WeChat payment system	<input checked="" type="checkbox"/>
HMI	10 inch Delta color touch screen	Operation authority setting	<input checked="" type="checkbox"/>
Drive System	Germany Siemens frequency conversion drive	Auto standby function	<input checked="" type="checkbox"/>
Pneumatic Components	Taiwan AirTAC	Emergency stop function	<input checked="" type="checkbox"/>
Nozzles	American SPRAY (original import) 316L stainless steel	Panel light	<input checked="" type="checkbox"/>
Rotary joint	American (original import) 304 stainless steel	Lifting light	<input checked="" type="checkbox"/>
Max car wash size	Length 5600mm / width 2950mm / height 2250mm	System free upgrade service	<input checked="" type="checkbox"/>
Car wash speed	Fast wash 5 mins/car; Super wash 7 mins/car	OverGlow Hi-Gloss Lava Foam System	<input checked="" type="checkbox"/>
Water Consumption	Fast wash 200L/car; Super wash 350L/car	Reverse osmosis soft water	<input type="checkbox"/>
Energy consumption	Fast wash 1KWH/car; Super wash 1.3KWH/car	Automatic lifting door	<input type="checkbox"/>
Chemical consumption	Standard wash RMB3/car; Super wash RMB3.5/car		

Description: ☒ Standard ☐ Optional

### Touch-free in-bay automatic vehicle wash system

<http://carwashtouchless.com/>



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# Leisuwash Service and Maintenance

1. The service and maintenance of Leisuwash system should be done by specialist technician, Cut off power supply when machine under service. Factory setting management code is 8888, it has permissions to modify the parameters, view vehicle wash quantities and change the password. Default password is 0 for operating the wash system, it can be changed to others like 12345, then the operator need enter into management center firstly, type in password 12345 then can start the operation.
2. Keep the main control box and touch screen in drying circumstance, it's not allowed to touch these devices with wet hands, keep chemical mixing box with water pump box at drying circumstance as well. Before turn on the power supply, make sure the main control box voltage display stability and consistency.
3. Service and maintain wash system regularly, regularly cleaning machine surface, remove dirt on sensors, remove water in drive control box. Cleaning water tank when it becoming dirty, especially inlet filter of water pipe. It's strictly prohibited to start rinse when water tank lack of water, use chassis to exhaust air firstly, never exhaust air with " L " arm rinse.
4. Exhaust water in pipes and tank during car wash equipment idle time, and when temperature under zero degree, must close inlet valve of chemical mixing system before shutdown the machine, use one key drain function to exhaust liquid in machine pipes, and open the discharge valve, exhaust water to prevent freezing. Don't start machine once freezing, otherwise will break the water pump and motor.
5. Add wash chemicals in-time, it will can not spray out the chemicals if air go inside the hose, prevent impurities fall into washing liquid bucket and water tank, otherwise may cause stuck inside the chemical mixing box.
6. Air compressor need to install oil-water separator, exhaust water in compressor every 15 days, the air supply for wash system can not contain a lot of water and oil, otherwise will cause lack of air during chemical spraying, It is strictly forbidden to directly use heavy alkaline water (PH value> 8) or high salty water.
7. Inspect water pump and pump motor belt every 30 days, tension belt if belt fluctuate too large, ensure parallelism during belt tensioning. Cleaning water pump filter regularly. Replace oil in water pump regularly( every 5000 cars ), or when the oil is dirty . Oil volume more than half but not full, Taiwan Wuli WH-10120 pump use No 30, 40 or 68 engine oil( 2.36L ), German Pinfl pump use 220 Shell gear oil ( 3.3 L )
8. Check synchronous belts every 30 days, immediately tighten it if happened deviation and loose phenomenon, otherwise machine will jump with grinding noise.
9. Check terminals inside Electrical cabinet every 30 days, especially terminals for water pump and air

fan power line, and terminals in drive control box ( because it walking every day ), tighten it if any loose. This can ensure a stable performance of electricity system.

10. Inspect frame screws and rail fixing screws every 90 days, Check the walking wheels every half year.

## Shipping





## To Success with all partners worldwide

