



## 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-smoke 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 S90 Model





## Washing and Maintenance Combo

### Chassis and Tyre high pressure washing

80kg high pressure have great performance for cleaning ,



### Detergent automatic mixing system

Through the high precision mixing system, only 20-50ml detergent per vehicle, help user control every penny, spray cover the whole vehicle body, more easy to remove dirt after high pressure washing



### 360 degree high pressure for whole vehicle

Adopting the average speed, equalizing and even-distance washing mode, the flushing distance is automatically adjusted according to the length of the vehicle body, which is not restricted by the vehicle type, and the cleaning blind spot is completely removed.



### SHAMPOO Magic Overflow

The dense foam enables the cleansing and curing ingredients to fully contact the dirt, thereby improving the decontamination efficiency and reducing the repeated scrubbing action. While cleaning, it can simultaneously complete the glazing protection effect, making the vehicle paint color more moist and glamorous bright



### WAX Automatic water wax

Crystal wax can form a layer of high-molecular polymer on the surface of the car paint. After soft water fusion, it becomes a hard protective film. It is like wearing a bullet-proof body for the car. It has super acid rain, UV protection, pollution prevention and protection paint effect..



### Fixed automatic air drying system

4 sets of 12kw multi-wing air drying system, which can quickly and efficiently dry the whole car, and the air drying effect can reach 85%, which can reduce labor cost and improve car wash efficiency.



## PINFL

High pressure piston pump ———70BAR 1015

Pinfl is belong to a Shanghai factory Chinese , we only use this brand on the economy products.

## Craftsmanship Durable

Running frame, galvanized and powder, double layers to protection the frame working more than 10 years

## National standard sheet metal

120\*120\*4mm galvanized steel tube for loading frame, more than 10 years working life

Excellent production process  
ensure the machine's high life

304 stainless rotate arm





# 独具匠心 高品质

## 德国B+F超声波检测系统

德国原装进口先进的超声波传感器，精确定位车辆的位置和形状，并控制旋转手臂对车辆的上下和周边进行清洗。

一般“山寨洗车机”采用的是国产超声波，检测不准，故障率高。还有一部分使用的是邦纳超声波，邦纳超声波容易进水，使用寿命不长

## EXCELLENT QUALITY

International Brand Best technology

Low voltage components **Schneider(France)**

**Reliable technology and quality  
are the guarantee for your trust**

Delta PLC from Taiwan(China) precision control the each process of car washing

## VFD Drive Water Proof Motor

The Motor start and run more flow with lower voice

**杭州镭速清洗设备有限公司**

HANGZHOU LEISU CLEANING EQUIPMENT CO.,LTD.





## Detergent Automatic Mixing System

20-50ml detergent per car, help cleaning shop control the cost efficiency.



## S90 Parameters sheet

Item	Parameters	Function	Standard	Air dry
Packing size	2900mm*1000mm*660mm	Automatic washing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Installation size	7000mm*3300mm*3300mm	Chassis washing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Min power supply	380V/16Kw	Tyre wheel washing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rail length	6000mm	Intelligent detergent mixing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Total Weight	≥1500Kg	360 degree body wash	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Total volume	≥8.2m <sup>3</sup>	Magic shampoo glazing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Control PLC	Delta PLC (Taiwan)	Automatic water wax	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical Component	Schneider (France)	Air drying system	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ultrasonic sensors	B+F (Germany)	One button on/off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High pressure piston pump	PINFL (Shanghai China)	Working data report	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pump station main motor	Lichao(Zhejiang China)	Frame indoor/outdoor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Air dry aluminum shell motor	Jinlong(Zhejiang China)	Digital Security anti-crush system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Calculate pump	WELL-OFF/NEWDOS	One button washing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fan	4 sets/12KW	Fault self-checking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rotate Arm	304# stainless steel	Automatic standby	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Running frame	Hot galvanized + Powder two layers protection	Function selection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Loading frame(120*120*4mm)	Galvanized weldless	Emergency stop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HMI	7 inches touch screen(Delta)	Operation access setting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Drive system	VFD/ aluminum shell motor(Taiwan)	Maintenance Hint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pneumatic components	Airtac (Taiwan)	LED light system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Nozzle	316# Hard Stainless steel	VFD system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rotating contactor	304# stainless steel (USA)	Multi-liquid reuse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Max car size for washing	5500*2600*2000MM	Free software upgrade	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Washing time	90s(Quick wash) 245s(Super wash)	24 hours unattended	Optional	Optional
Water consumption	120L(Quick wash) 220L(Super wash)	Water recircle system	Optional	Optional
Electrical consumption	0.5KWH(Quick wash) 1.3KWH(Super wash)	Vertical side spray system	Optional	Optional
Detergent consumption	20ml(Quick wash) 50ml(Super wash)	Arch side spray	Optional	Optional

Note : ☒ Yes ☐ No



# 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

