



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 360 Model

Unique Intelligent Vehicle Wash and Maintenance

LEISUWASH 360

EXCELLENT QUALITY



Will assist in guiding your customers through the vehicle entry and exit process and it will illuminate your bay, day or night, whether your vehicle wash is in use or not



Luxury alloy operation station

01 合金拉丝操作台

金属拉丝 彰显档次 操作方便



Transparent panel LED lighting system

02 透光面板，LED灯光系统

LED多色彩组合闪烁灯光系统，白天或晚上照亮洗车过程，拥有强劲的视觉效果。



Germany Siemens Full-aluminum motor

03 德国西门子全铝电机

性能更优越，更长使用寿命。



Integrated main control system

04 一体化主控系统

安全 高效



Intergrated LED arrow with timing

05 LED箭头计时一体机

方便 实用



304 stainless steel bottom spray system

06 全304不锈钢底喷系统

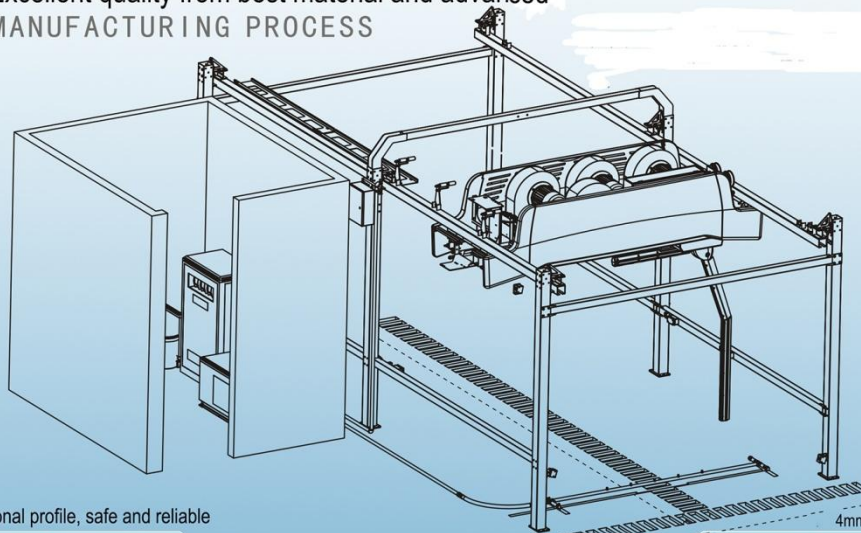
经久耐用

Authentic quality Quality assurance Patented technology



Leisuwash 360 Anti-off under hanging track installation frame

Excellent quality from best material and advanced
MANUFACTURING PROCESS



A International profile, safe and reliable
Designed and manufactured by the square tube of national standard 120*120*4, and the surface is hot-dip galvanized for more than 10 years life.

4mm square tube **B**
More than 10 years life

Finished assembly
weldless



International profile
safe and reliable

F High strength
8.8 screws



**BEST
QUALITY**
leisuwash



Finished assembly **C**
weldless

Anti-skid rail
patented technology



Harsh process
Durable

E Special Rail Steel 100*100*5mm
5mm thickness with better durable, Higher strength

5mm thickness rail steel **D**
Max for 5T loading

Quality assurance
from quality materials and
advanced
manufacturing processes

杭州雷速清洗设备有限公司
HANGZHOU LEISU CLEANING EQUIPMENT CO.,LTD.

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High Pressure Pump System

Authentic quality Quality assurance World class technology

Our suppliers come from the world's top companies



High Pressure Pump System

The core components are all imported,
With Guaranteed quality

WH-10120
A High Pressure Piston Pump from Wuli(Taiwan)
Aluminum crankcase Forged copper pump
head pressure 70-100KG Water volume 120/L
10 years life

Copper
Pressure regulator



WH-12140
B High Pressure Piston Pump From Wuli(Taiwan)
Aluminum crankcase, 304# stainless steel pump head
pressure 85-120KG, water volume 140L/Minute, 10 years life

Copper
pressure regulator



F Aluminum Motor
SIEMENS
15KW

Buckle
304# stainless steel



E 304# stainless steel
High pressure pneumatic reversing valve
All use 304# stainless steel to have longer life

**BEST
QUALITY**

C Aluminum Motor
SIEMENS
22.5KW

Antifreeze drain valve



Import Blower

Hydraulic power push rod, easy maintenance

D Hollow pump station cover: Conducive to motor cooling
Extended service life



High Pressure piston pump gauge imported

PERFORMANCE, DEPENDABILITY AND QUALITY

Leisuwash Delivering Innovative Vehicle Cleaning Solutions Worldwide

With the highest developing speed, Leisuwash is being the leader in China in-bay automatic vehicle wash industry. We are dedicated to providing wash operators with the most innovative equipment that exemplifies our tradition of Performance, Dependability and Quality. The new Leisuwash 360 raises the standard with new revenue-enhancement features and total cost-of-ownership improvements that offers wash operators the opportunity to realize the industry's highest return on investment.

Simplified engineering and high-quality materials provide the optimal balance between initial investment and long-term profitability. Substantially faster wash speeds increase vehicle throughput, resulting in shorter wash lines that will delight your customers and keep them coming back again and again. Smart 360 technology enables the Leisuwash 360 to be highly responsive to dynamic conditions in the wash bay, minimizing downtime and optimizing the wash process, resulting in higher customer satisfaction and repeat business.



E-Chain

Energy E-Chain for easy and low-cost installation, deliver liquid more smoothly and minimize wearing of piping and power cables.



Rollers Inside

Bridge and trolley movements are smooth and effortless using internally mounted dual-axis rollers. The hanging design enhances self-centering and improved roller life by protecting the rollers from the harsh wash environment.

Slip-Free Belt Drive

Bridge and trolley movement are controlled using slip-free drive belts for improved performance and wash accuracy. Less moving parts provide a much simpler drive system.



360 degree intelligent swing arm -----360 degree rinse the car

Key Features:

1. Self-service card payment system.
2. Smart 360 technology.
3. Intelligent chemical mixing system.
4. Innovative suspension system non-resistance rails.
5. Unique embedded fast air drying system.
6. Digital voice security alarm system.
7. Faulty self-checking system.
8. One key anti-frozen system

杭州雷速清洗设备有限公司
HANGZHOU LEISU CLEANING EQUIPMENT CO.,LTD.



Revenue Enhancing Services



The Leisuwash 360 offers significantly faster wash speeds that minimizes your customer's valuable time at the site. Unlimited wash-package configurations and multiple service offering allows you to provide customers a full array of choices that satisfy even their most discriminating needs. New up-sellable features include triple-foam, OverGlow Hi-Gloss with LED light, protectant crystal wax with integrated air drying. These innovative services delight your customers with the ultimate washing experience, and they will leave your site with the cleanest, shiniest and driest vehicle possible, one that they will be proud to drive.



Chassis, tyre prewash

High pressure pre-wash for under chassis and wheels.
90bar high pressure water can effectively remove dirt on vehicle chassis, body sides and wheels.



Low Cost of Ownership

As car wash operating costs continue to rise, operators are taking a much closer look at reducing electrical, water, chemical and maintenance costs to better compete and improve their profitability. The Leisuwash 360 was designed with this in mind: minimizing water requirements, reducing electrical consumption through the incorporation of variable-frequency and lowering chemical usage that allows the saving to drop down to the bottom line. Smart 360 technology dramatically reduces the need for site attendants to intervene with the wash process allowing them to focus on more important tasks.

A "keep-it-simple" design goal minimizes the need for sensors, grease fittings, swivels and valves, while the use of common electrical components throughout the system allows easier troubleshooting, minimizes regular maintenance costs and delivers consistent high-quality cleaning. Additionally, the Leisuwash 360 is built using only the best in non-corrosive materials, providing operators a rugged machine that will deliver a long, reliable lift of revenue generation.

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

PERFORMANCE, DEPENDABILITY AND QUALITY

Vehicle Positioning

Ultrasonic sensors accurately measure the vehicle's width, and bridge sensors signal the driver to stop or back up, by activated with an electronic safety envelope surrounding the entire vehicle, allowing the Leisuwash 360 to maintain an optimum cleaning distance whether the vehicle is parked to one side or angled in the wash bay.

Multi Control Mode

Car wash owner could operate wash system through touch panel, magnetic card, payment station button, remote controller.



Triple Foam

Thick foam makes cleaning maintenance component fuller contact with dirt, thereby improving the efficiency of decontamination, making the paint colors more moist and bright.

Unique soft-type broad-spectrum activity of ion cleansing agents, emulsifying effective daily cleaning dirt on the car body and non-corrosive for the car paint, wheels, tires, window glass.

Superior Pre-Soak Application System

The Leisuwash 360's simple but sophisticated feature set provides exceptional chemical application and coverage with rounded corner profiling, smart 360 rotate arm spray various washing chemicals with high-precision proportioning technology. 100% accurate measurement with adjustable ratio, only 20~50ml pre-soak consumption for cleaning one vehicle, material saving and cost efficiently.



杭州雷速清洗设备有限公司
HANGZHOU LEISU CLEANING EQUIPMENT CO., LTD.



Unique embedded fast drying system.

Leisuwash 360 Configuring three 5.5kw and one 4kw 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, it can achieve rapid drying effect whether it is tall SUV or low body sports car.



Soft Water with Crystal Wax Coating



Buy Optional OverGlow Hi-Gloss Application System with colorful LED light will attract drivers off street and onto your wash bay !

Turn your wash into a glowing success with Leisuwash new overglow Hi-gloss application system, this innovative system create a silky smooth sheet of solution draping their vehicle, the bright colorful LED light illuminated the solution during the application, providing a unique and entertaining customer experience, your customer will love very shiny vehicle, and you will love the extra revenue, the option can be ordered on a new car wash equipment, put the shine back into your profits with Leisuwash overglow Hi-gloss application system.

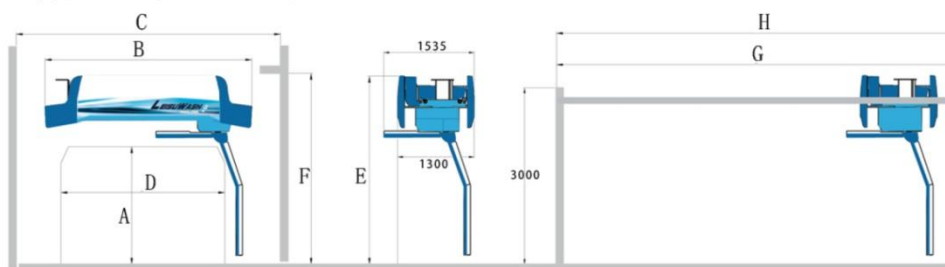
Soft water can make magic triple color foam and wax completely adsorbed vehicle surface, forming a multi-layered interaction strength protective film, car paint become more glorious and beautiful with durable paint protection, and features anti-acid rain, pollution, UV erosion.

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LEISUWASH

touch-free in-bay automatic vehicle wash system

Equipment Layout Dimension

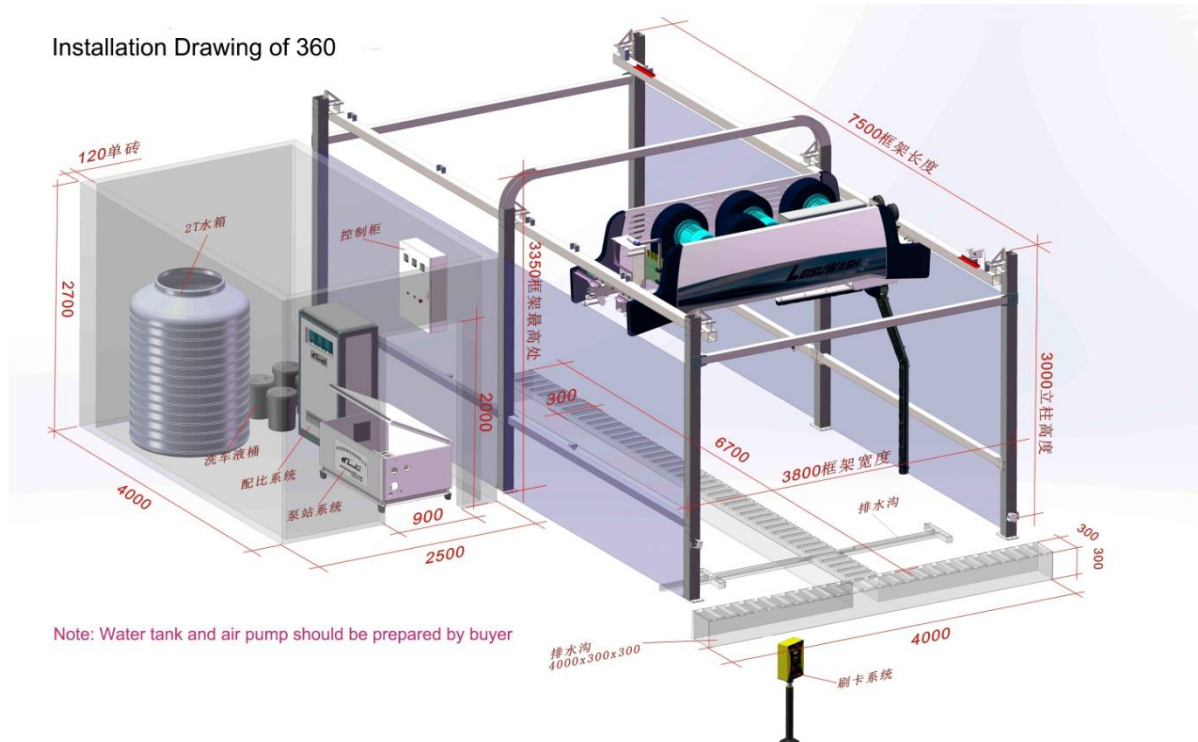


Item	Dimension	Note	Item	Size
A-Max car wash height	2050mm		Main Machine box	3660*1410*1340=7m ³
B-Mainframe width	3500mm		Pump Station box	1340*900*600=0.72m ³
C-Mounting width	3800mm-4500mm	With Frame max installation width 3800MM	Mixing detergent system box	900*550*1600=0.8m ³
D-Max car wash width	2980mm		Overflow box	950*540*860=0.44m ³
E-Machine height	3200mm		Operation plate box	460*570*1530=0.4m ³
F-Minimum installation height	3250mm	With the Frame min height is 3350mm	Rail 7.5M length	2PCS
G-Rail mounting length (standard)	7500mm	Can dry the whole car	Frame	17 pcs- full frame 13pcs indoor frame
H-Frame mounting length (standard)	7500mm		Accessories	Tubes

Total Volume: 11.5m³

Total Weight: 2.6T

Installation Drawing of 360



Note: Water tank and air pump should be prepared by buyer

LEISUWASH

touch-free in-bay automatic vehicle wash system

Parameter Sheet



Item	Unit	360Plus	360	Configuration
Main machine sizes (LWH)	mm	3850mm*1250mm*950mm	3500mm*1200mm*900mm	Express wash mode
Water pump station sizes (LWH)	mm	1000mm*800mm*1100mm	1340mm*900mm*600mm	Super wash mode
Proportion system sizes (LWH)	mm	800mm*450mm*1400mm	800mm*450mm*1400mm	Card wash mode
Rail length	mm	7600mm	7500mm	Remote control
Shipping weight	kg	≥ 3100kg	≥ 2600kg	Intelligent chemical metering system
Shipping volume	m ³	≥ 14.5m ³	≥ 11.5m ³	Operation station intelligent
Mounting dimension (frame length)	mm	7600mm	7500mm	3D detection system
Mounting dimension (frame width)	mm	4200 ~ 4700mm	3850 ~ 4500mm	Self parking system
Mounting dimension (height)	mm	≥ 3370mm	≥ 3350mm	Multi-language operating system
Power supply	Kw	380V/25Kw	380V/22Kw	360° high pressure wash
Air switch	A	100A/Air switch	100A/Air switch	360° chemical application
Total power	Kw	45Kw	37Kw	Chassis washing function
Water pump motor power	Kw	22Kw/Pressure 85Kg	15Kw-18.5Kw/Pressure 70Kg	Tyre washing function
Air fan motor power	Kw	20.5kw Full pressure 11000pa	20.5kw Full pressure 11000pa	U0 pre-soak
Longitudinal motor power	Kw	0.37Kw Promise frequency conversion brake speed control motor	0.37Kw Promise frequency conversion brake speed control motor	U9 pre-soak
Transverse motor power	Kw	0.75Kw Servo drive system	0.75Kw Servo drive system	Soft water wax coating
Rotary motor power	kw	0.75Kw Servo drive system	0.75Kw Servo drive system	Magic shampoo glazing
Metering system motor power	Kw	1.5Kw	1.5Kw	Integrated air dryer system
CPU		Embedded central processing unit + industrial PLC dual-core system	Embedded central processing unit + industrial PLC dual-core system	Digital security collision avoidance system
Drive System		Servo drive system	Servo drive system	LED reminder guide system
Detection System		Intelligent three-dimensional detection system	Intelligent three-dimensional detection system	Prompt tone system
Sensor system		Ultrasonic sensor + absolute value digital encoder	Ultrasonic sensor + absolute value digital encoder	Real voice system
Rinse speed	s	28S/Vehicle	28S/Vehicle	Data report
U0 pre-soak	s	28S/Vehicle	28S/Vehicle	Fault self-test function
U9 pre-soak	s	28S/Vehicle	/	Automatic clean rearview mirror
Soft water film wax	s	30S/Vehicle	30S/Vehicle	One key drain
Magic shampoo glazing	s	30S/Vehicle	30S/Vehicle (Shampoo)	Anti-frozen drainage function
OverGlow Hi-Gloss	s	30S/Vehicle	35S/Vehicle (OverGlow)	Multi-liquid reuse function
Air drying	s	50S/Vehicle	50S/Vehicle	Pressure equalization nozzle
Chassis wash water consumption	L	30-50L/Vehicle	30-50L/Vehicle	Safety alarm system
Complete car wash water consumption	L	200-350L/Vehicle	200-350L/Vehicle	Automatic standby function
U0 pre-soak consumption	ML	20ml-50ml/Vehicle	20ml-50ml/Vehicle	Mounting frame
U9 pre-soak consumption	ML	20ml-50ml/Vehicle	/	OverGlow Hi-Gloss Application System
Crystal wax consumption	ML	20ml-40ml/Vehicle	20ml-40ml/Vehicle	Alloy wire drawing operation station
Magic shampoo consumption	ML	50ml-100ml/Vehicle	50ml-100ml/Vehicle	Automatic shutter door
OverGlow shampoo consumption	ML	70ml-100ml/Vehicle	70ml-100ml/Vehicle	
Electricity consumption	KWH	1.5-1.8KWH/Vehicle	1.2-1.5KWH/Vehicle	

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

