



PRODUCT PRESENTATION

Soft Touch S1-C





CAROLINA
Shine

Soft Touch S1-C

- ★ High pressure under carriage wash (chasis+hub)
- ★ Air blower drying
- ★ Water rinse
- ★ Brush cleaning
- ★ Water wax coating
- ★ Automatic foam dispensing

Main Components

- ★ Main frame
- ★ Water system
- ★ Electrical system
- ★ Air system
- ★ Washing detergents dispensing system
- ★ Moving device
- ★ Brushes
- ★ Industrial automation PLC control system
- ★ Air drying blowers





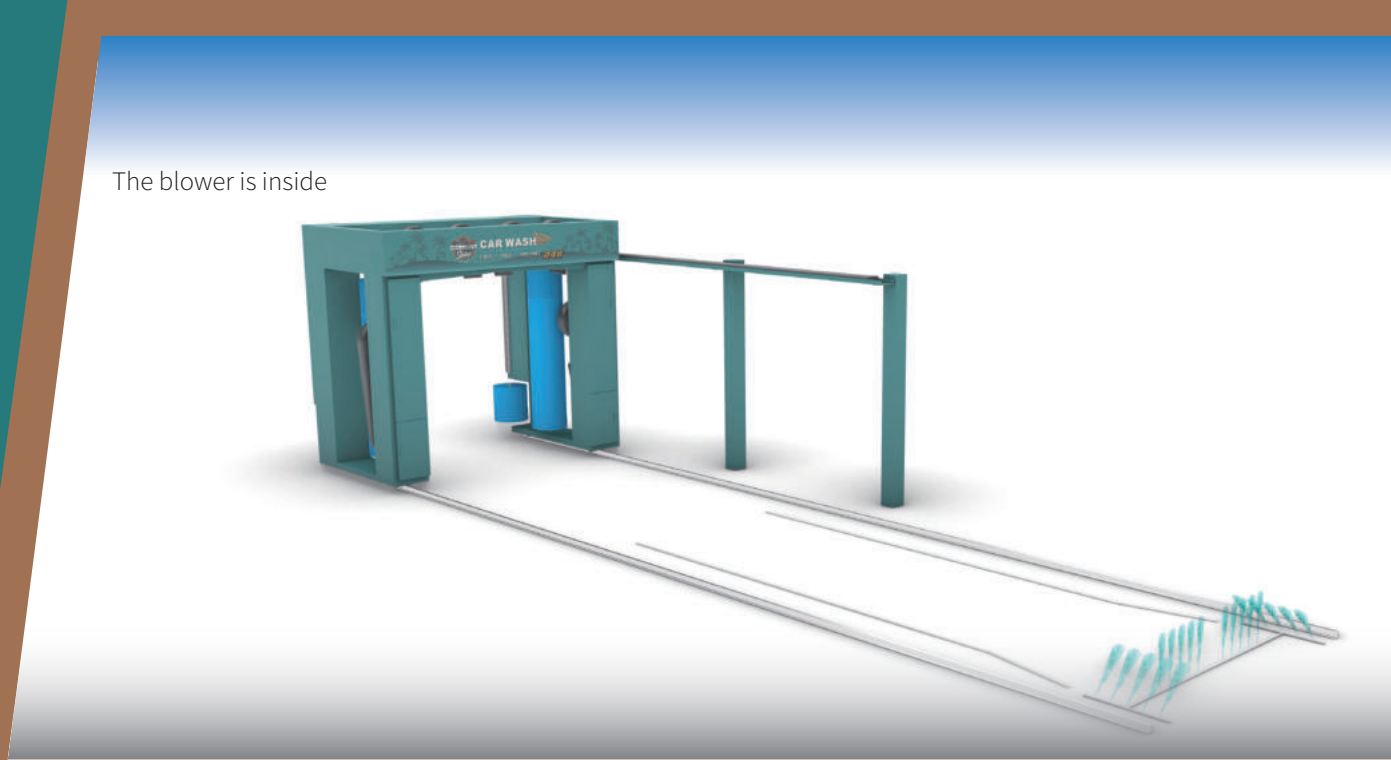
Carolina Shine Service

Pre sales service

- 1 . Free product proposals
- 2 . Car wash machine customization (logo/color/language/payment software)
- 3 . Construction drawing design

After sales service

- 1 . Life long technical support and free system upgrade
- 2 . engineer on-ground installation support commissioning & training
- 3 . Three years warranty and parts free provided

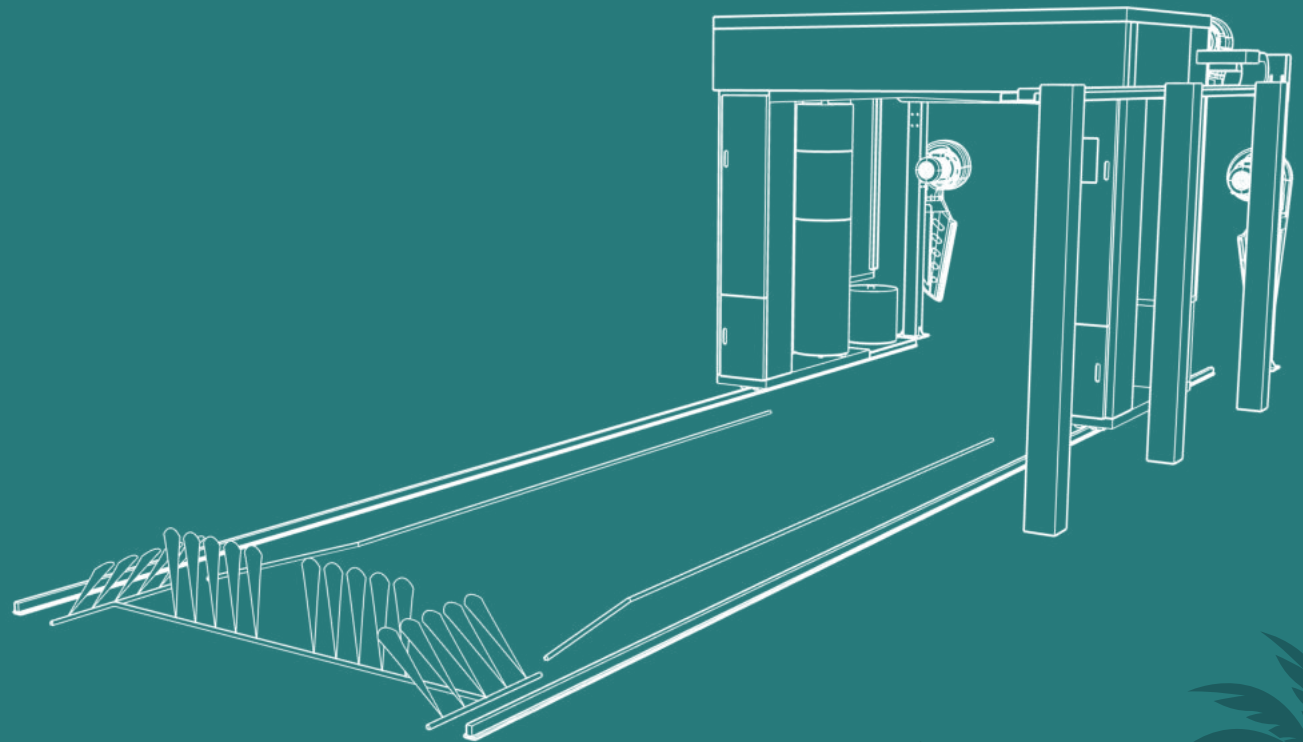
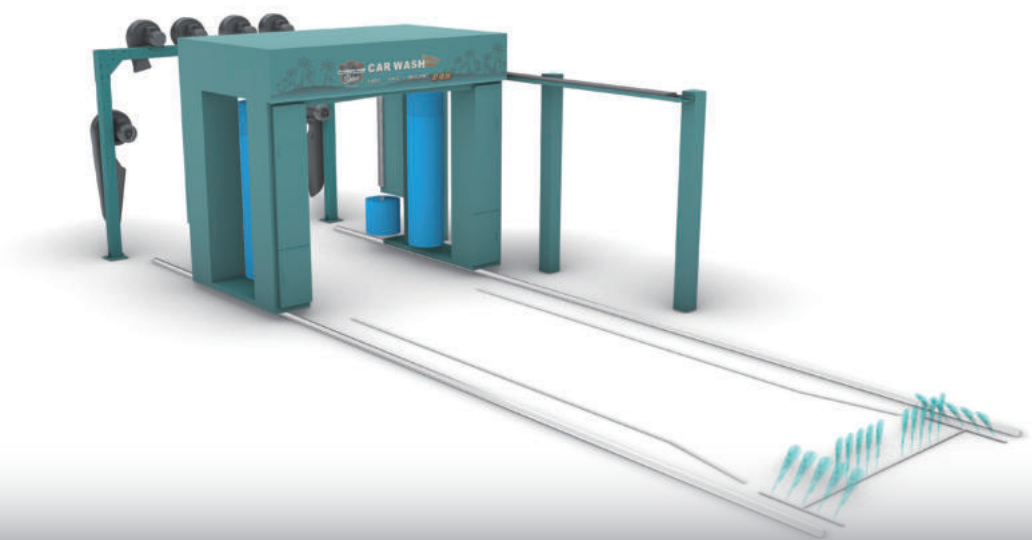


Technical Data	
Parameter	Value
Suitable cars	Sedans, SUV, MPV, 4x4
Machine size(ft)	refer to attachment 1
Max. washing size(ft)	
Installation space(ft)	
Wash time	2.5 - 5 Mins per car
Water consumption	60 - 80 L per car
Electricity consumption	0.8 KWH/car
Foam consumption	10 - 30 ml/car
Water wax consumption	10 - 30 ml/car
Power supply	208V, 35KW,60HZ
Air drying blowers	6 pcs * 5.5KW
PLC	Japan Mitsubishi
Washing pressure	50 bar for under carriage, 15 bar for brush cleaning



Main System		Main System	
1	Integral hot-dip galvanized steel main frame	15	Intelligent profiling current top brush system
2	Module design, mortise and tenon structure	16	New rack drive unobstructed arm side system
3	Coupling conversion transition rotation system	17	High quality anti rubbing pipe wire / stainless steel fittings
4	Specially thickened bearing, precision rotating chain	18	Pressure resistant and flexible high pressure water pipe
5	International famous brand electric and pneumatic system control center	19	LED signal light and display system
6	Triple photoelectric protection 180 degree touch anti-collision Technology	20	Anti freezing and drainage function for cold area($\geq 0^{\circ}\text{C}$)
7	Strong and low noise air drying blowers	21	Free switching function of multiple wash modes
8	Intelligent variable frequency speed control	22	Automatic high pressure water system
9	Intelligent proportioning of foam and water wax	23	Water circulation system
10	HD large screen embedded touch screen operation interface (central control and operating system)	24	Self protection system
11	Bonner photoelectric detection system	25	Intelligent anti-collision system
12	High performance Siti waterproof motor reducer	26	Fault alarm and automatic processing system
13	Silent stainless steel high pressure centrifugal pump	27	Remote control parts operating system
14	Stainless steel waterproof sealing walking wheel	28	Emergency stop system of the whole machine

The blower is outside





EVA soft brush
Brush self-cleaning technology
No water/dust/sand
Not easy to deform
Soft without damaging car paint



Big Power Fan Dryer
-6*5.5KW high pressure drying
Quick drying, low noise
Low failure rate,long life time



PEPPERL+FUCHS Sensor
Germany P+F international brand
Waterproof level IP69
Accurately measure the car driving distance
Accurately predict vehicle location



Waterproof Reduction Motor
-Well-known brand motor
Fully enclosed integrated design
Waterproof grade IP68
Life time 20 years



SIEMENS Control System
Germany Siemens famous brand
System is stable
With low failure rate
Long service life



Mitsubishi PLC ,Japan
High reliability and stability
Fully automated and intelligent
Precise process control
Energy saving and environmental protection

Main Parts Brand and Place of Origin			
Name	Brand	Specification	Place of Origin
Control System PLC	Mitsubishi	FX3U-80MR/ES-A	Japan
Photoelectric Sensor	Banner	S186E/S18SN6R	America
Proximity Switch	Pepperl+Fuchs	M12/M18/M30	Germany
Frequency Converter	Siemens	6SL3210-5BE17-	Germany
AC Contactor	Siemens	3RT6016-1AN22/3RT6018-	Germany
Heat Protector	Siemens	3RU6116-1AB0/1CB0/1GB0/4A	Germany
Switching Power Supply	Mean Well	RSP-320-24	Taiwan
Terminal Blocks	Weidmuller	UK-6N/UK-5N	Germany
Terminal Blocks	Nanou	UKK5	Zhejiang
Pneumatic Electromagnetic Valve	AirTAC	4V210-08-B terminal type DC24V PT	Taiwan
Waterproof Motor Reducer	SITI/ASJ	1: 50/1: 60/1: 15 / 1: 30-0.37---1: 60-0.55	Italy/China
Air Drying Blower	Customized	5.5KW	Guangdong
Water Pump	Dayuan	3-96	Zhejiang
EVA Brush	Customized	L450*150*T3.8/L520*150*T3/L520*150*T3.	Xiamen
Current Detector	Qidian	MK1526 AC0-5A/4-20MA power supply 24V	Anhui
Signal Isolator	Qidian	GLK-11 /4-20MA/4-20MA power supply 24V	Anhui
Solenoid Valve for Water	Yongchuang	YCD21-15GBN-S91B	Ningbo
Touch Display Screen	Weinview	MT6071iE	Taiwan
Air Cylinder	AirTAC	M32*125	Taiwan
Relay	Weidmuller	DRM270024L	Germany

Why choose soft touch?

Core advantages: It achieves efficient and low-cost fully automated operation while ensuring thorough cleaning without damaging the paint.

- 1.Five brushes work together for comprehensive coverage: Equipped with a top brush, side brushes, and a dedicated wheel brush, it can conform to the contours of different car models, providing 360-degree cleaning of the sides, roof, front, and rear of the vehicle, paying particular attention to details that are easily overlooked by manual cleaning, such as wheel rims.
- 2.Specialized EVA brush won't damage the paint at all, which is very soft and elastic. The car body and wheels are cleaned with brushes of varying softness for a full-coverage cleaning.And clean water is continuously sprayed and rinsed to the brushes during the whole washing process, while ensuring cleaning power, it can effectively protect the car paint.
- 3.The brush has a lifespan of up to 400,000 washes. If you wash 100 cars a day and operate 365 days a year, it can last for 10 years.
- 4.Photoelectric sensors detect different streamlined shapes on the car body and adjusts the cleaning intensity to the optimal level for cleaning all parts.
- 5.The car wash is highly efficient, saving time and effort. It usually takes only 3-5 minutes to wash a car, which can significantly improve the store's service capacity.
- 6.Water and electricity saved, no manual intervention required, reducing the cost per car wash.
- 7.The structure is robust and the service life is long. The machine frame is usually made of hot-dip galvanized steel, which is rust-proof and corrosion-resistant, and has a service life of no less than 10 years.
- 8.Intelligent and safe, easy to maintain. Equipped with self-detection of faults, multiple safety protections, alarms, and remote control modules. More reliable to use, and faster fault handling.
- 9.The touchscreen display is simple, easy to understand, and allows for intuitive human-computer interaction.
- 10.It features four built-in car wash modes with different prices. From quick wash to premium wash, customers can choose as they please.

SOFT TOUCH WASH DIMENSIONS(ft)			
WASH LENGTH	19.69	22.97	26.25
WASH HEIGHT	6.89	7.55	8.53
WASH WIDTH	7.22	7.22	7.55
LENGTH OF RAILS	36.09	39.37	42.65
MACHINE WIDTH	11.81	11.81	12.14
TOTAL MACHINE HEIGHT	9.51	9.84	10.83
SUGGESTED INSTALLATION LENGH	36.09	39.37	42.65
SUGGESTED INSTALLATION WIDTH	13.78	13.78	14.11
SUGGESTED INSTALLATION HEIGHT	10.17	10.50	10.83

attachment 1

