



CAROLINA SHINE EQUIPMENT
TW2000 BROCHURE

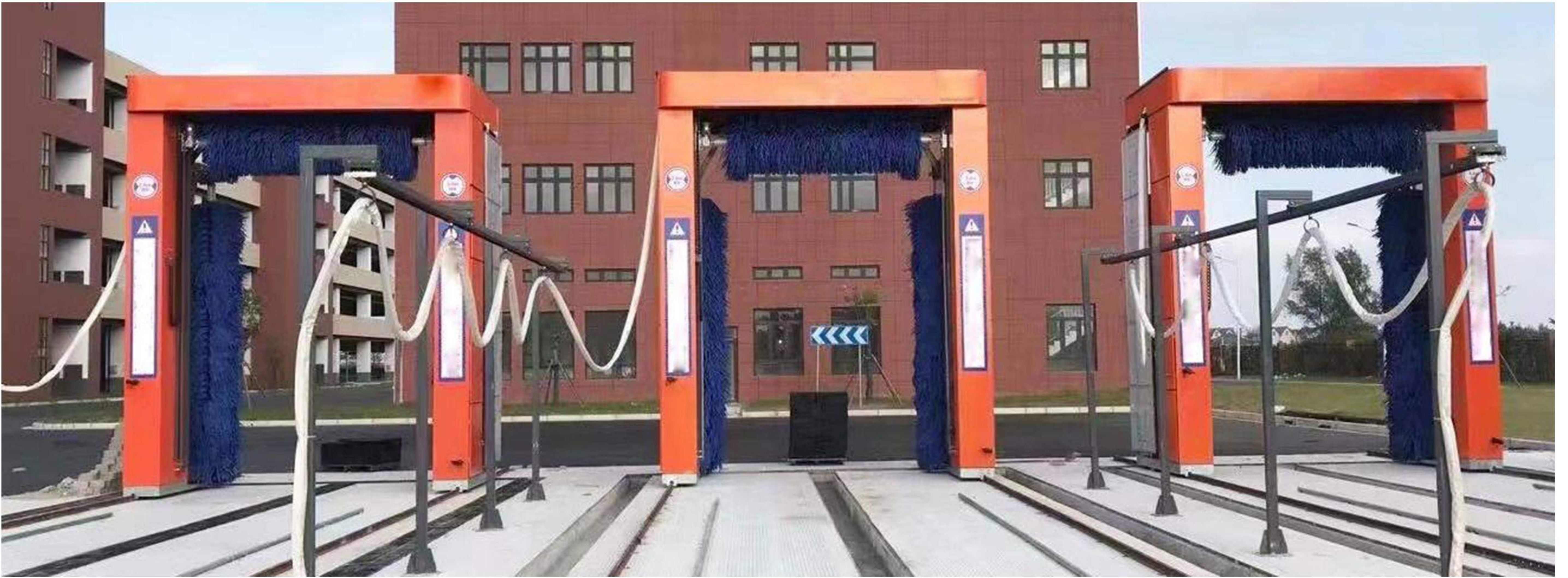
CAROLINA SHINE EQUIPMENT TW2000 HP TOUCHLESS AUTOMATIC CAR WASH EQUIPMENT



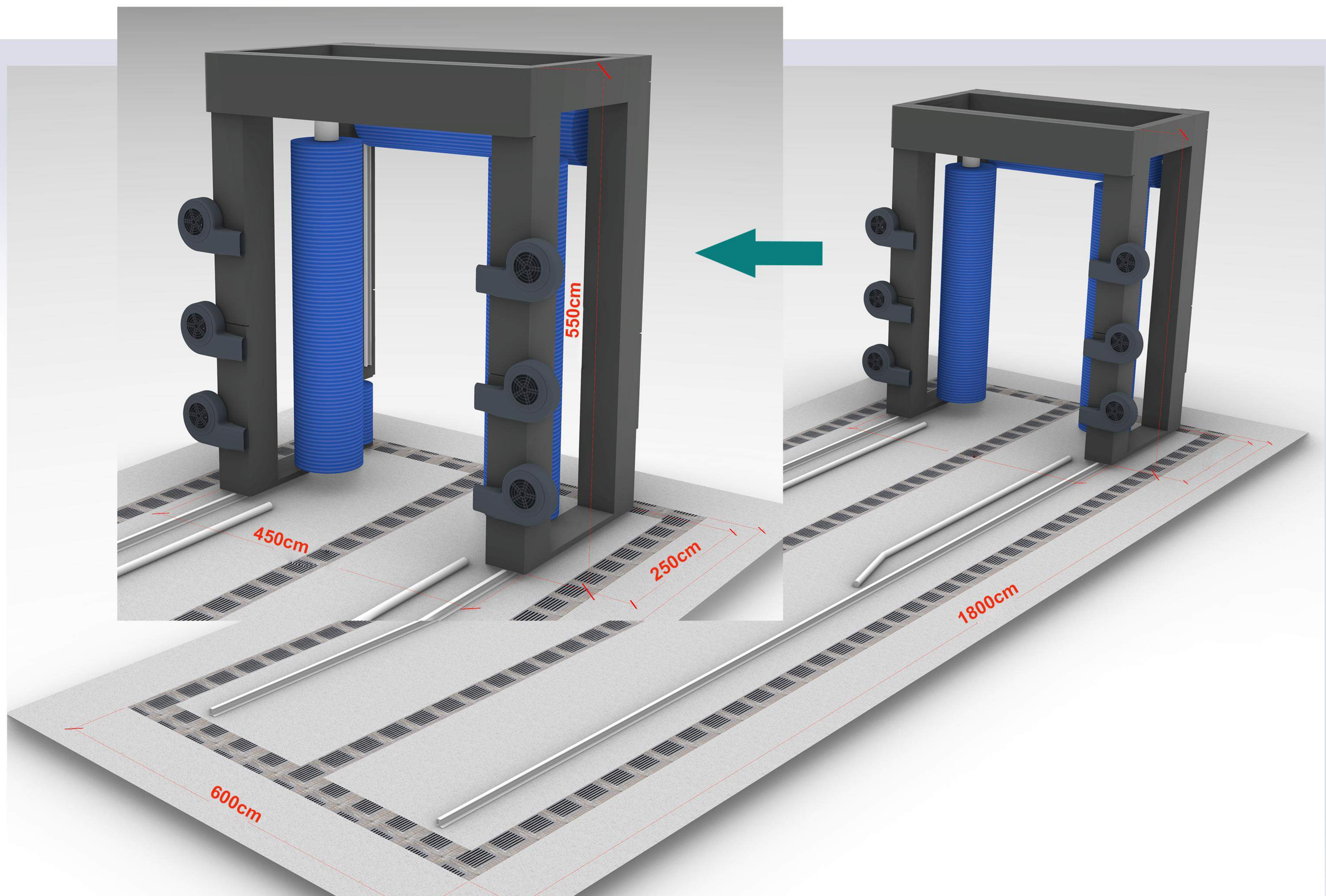
Carolina Shine Equipment TW2000 Introduction

The Carolina Shine Equipment TW2000 is a touchless car wash system designed for buses, coaches, container trucks, and semi trucks. Controlled by a Mitsubishi PLC system, its brushes automatically adjust to avoid damage while ensuring thorough cleaning without blind spots.

Built-in functions include high-pressure washing, foam dispensing, and water wax coating.



Carolina Shine Equipment TW2000 3D Drawing



CAROLINA SHINE EQUIPMENT

TOUCHFREE TW2000



Gantry/Rollover Bus/Truck Wash Machine



Model	TW2000
Machine Size (m)	L x W x H: 250 x 450 x 550cm
Max. Vehicle Size (m)	L x W x H: 1400 x 300 x 450cm
Installation Size (m)	L x W x H: 1800 x 650 x 570cm
Suitable Wahing mode	Various types of Bus, Truck, Train carriage etc.
Wash Time	3-5 minutes per vehiche
Water Consumption	150L - 200L per vehicle
Foam Consumption	25mL - 30mL per vehicle
Electricity Consumption	0.5kwh per vehicle
Machine Power	10kW
Power Supply	3-Phase 208V / 60Hz
Average washing quantity	15-20 vehicles / hour
Top Brush	1
Big Vertical Brush	2
Skirt Brush	/

Electronic Components



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	6SL3210-5BE17-5UVO	Germany
AC Contactor	Siemens	3RT6016-1AN22/3RT6018-1AN22	Germany
Heat Protector	Siemens	3RU6116-1AB0/1CB0/1GB0/4AB0	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
Fan	Yongcheng	5.5KW	Guangdong
Water Pump	Dayuan	3-96	Zhejiang
Brush	Mairun	L450*150*T3.8/L520*150*T3/L520*150*T3.8	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



EVA soft brush

- Brush self-cleaning technology
No water, no dust, no sand
- Not easy to deform
Soft without damaging car paint



Big Power Fan Dryer

- 4*5.5kW high pressure drying
- Quick drying, ash deposition
- Low failure rate, long life time



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



PEPPERL+FUCHS Sensor

- Germany P+F international brand
- Waterproof level IP69K
- Accurately measure the car driving distance
- Accurately predict vehicle location



Stainless steel pipe & nozzles

- 304 stainless steel
High pressure resistant
Corrosion prevention
Rust prevention, durability

Main Configuration



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 in winter
7	22KW fixed air drying fan	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