



CAROLINA SHINE EQUIPMENT
TUNNEL SERIES BROCHURE

CAROLINA SHINE EQUIPMENT TUNNEL SERIES FOR ST1000 / ST2000 / ST3000

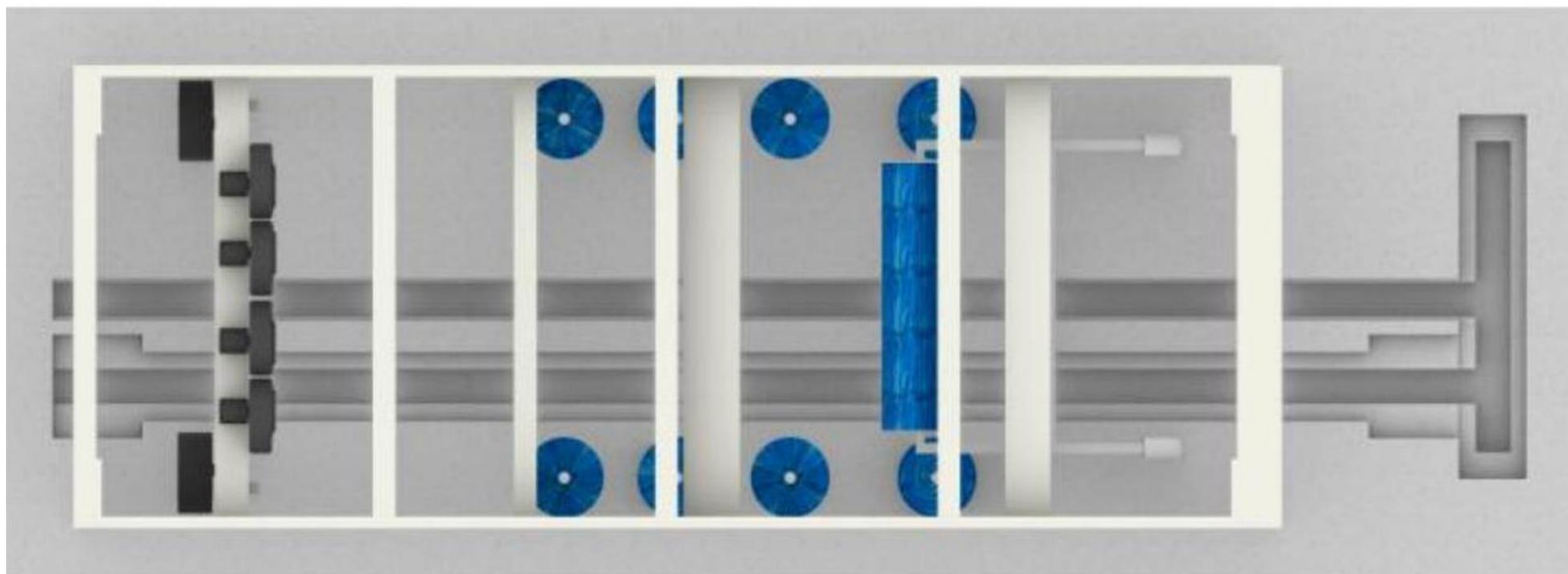


Carolina Shine Equipment Tunnel Series Introduction

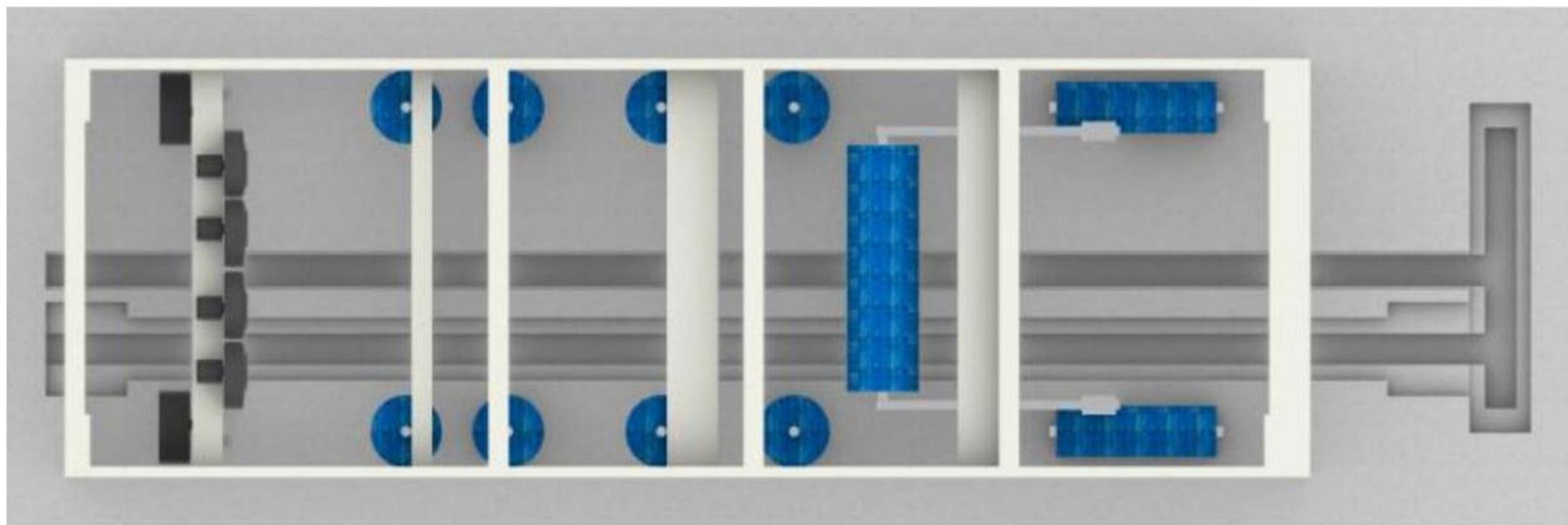
The Carolina Shine Equipment Tunnel Series for the ST1000, ST2000 and ST3000 models offers flexible, high-performance solutions with customizable wash, drying, and care modules. Designed to meet varying wash volumes, space constraints, and customer needs, these modular systems ensure efficient, reliable, and high-quality results for both small and large-scale car wash operations.



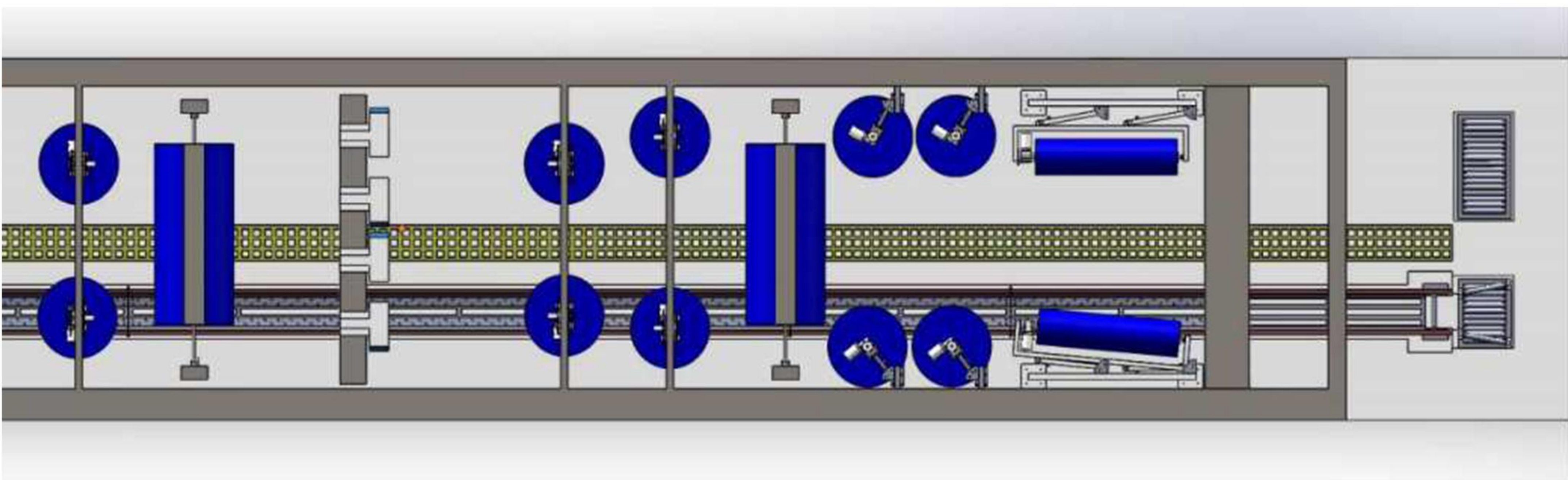
Internal Structure Drawing For Tunnel Series



- ST1000**
- Top Brush: 1
- Side Brush: 4
- Big Vertical Brush: 4
- Total brush quantity: 9



- ST2000**
- Top Brush: 1
- Side Brush: 4
- Big Vertical Brush: 4
- Horizontal Wheel Brush: 2
- Total brush quantity: 11

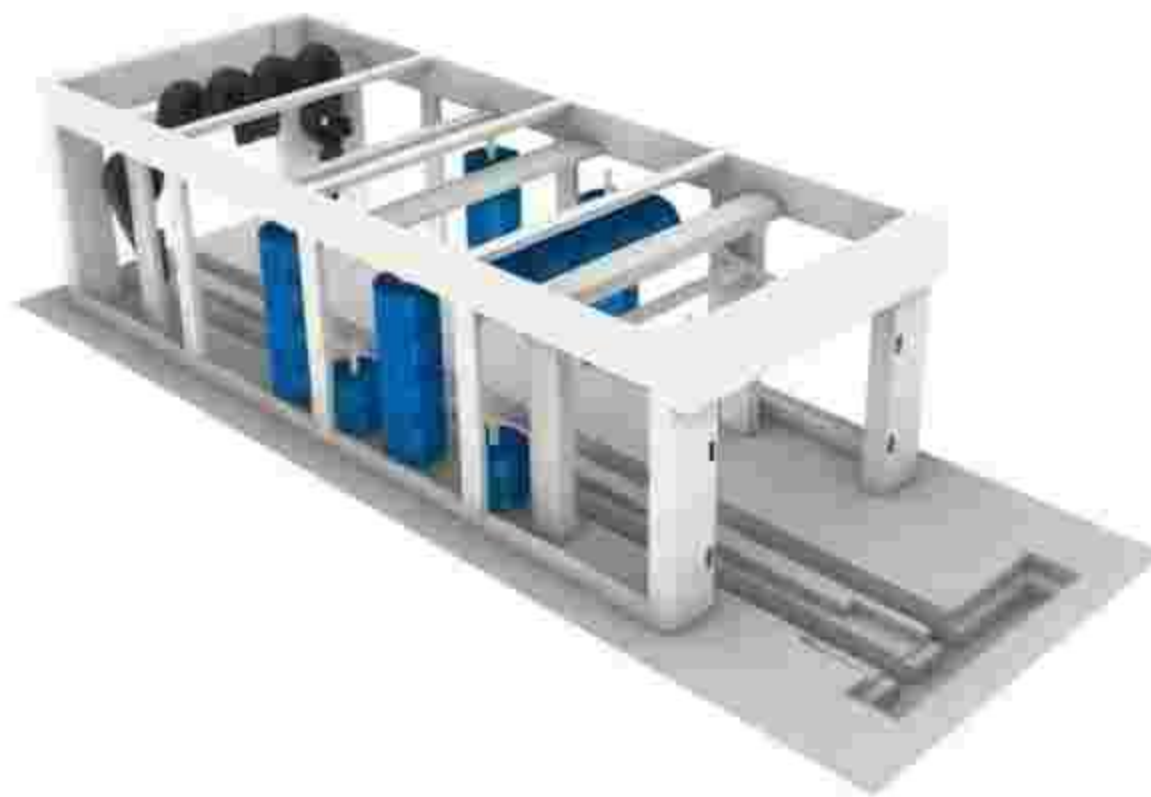
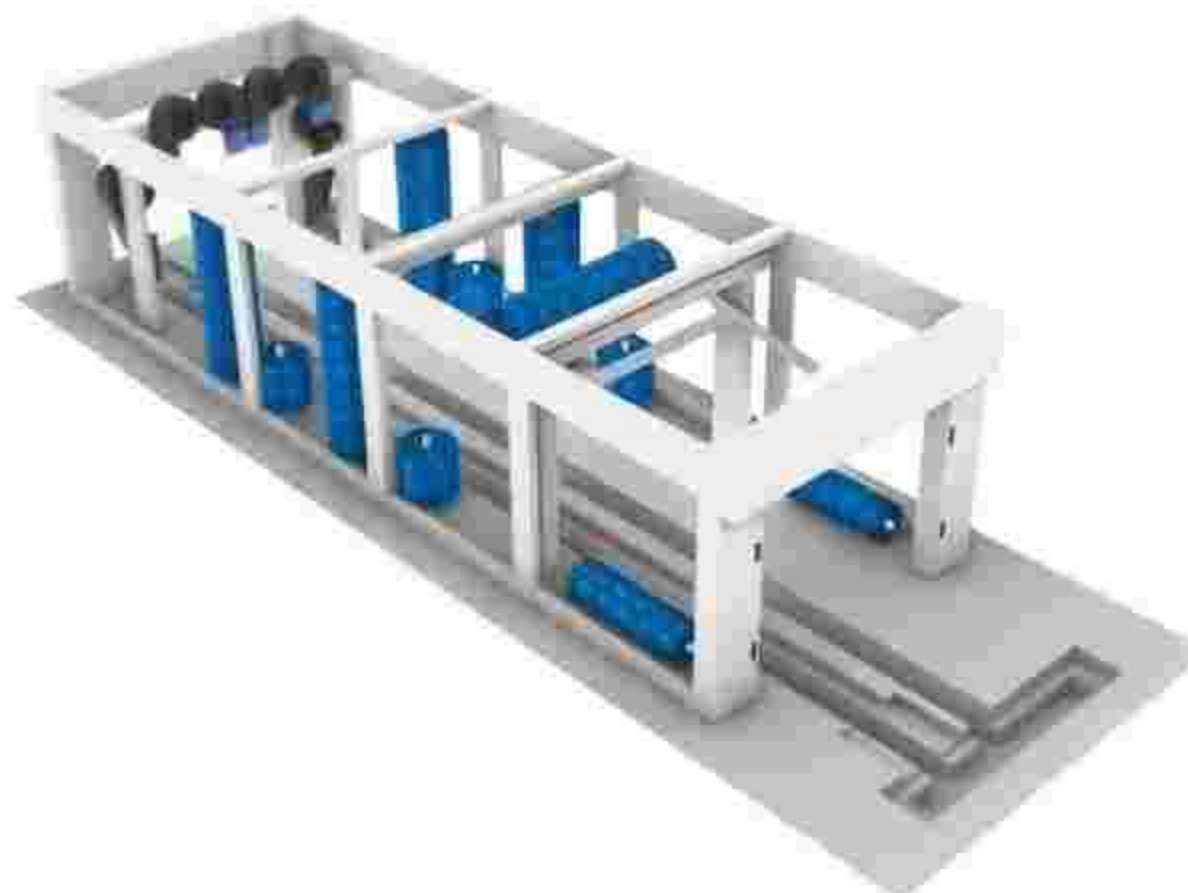
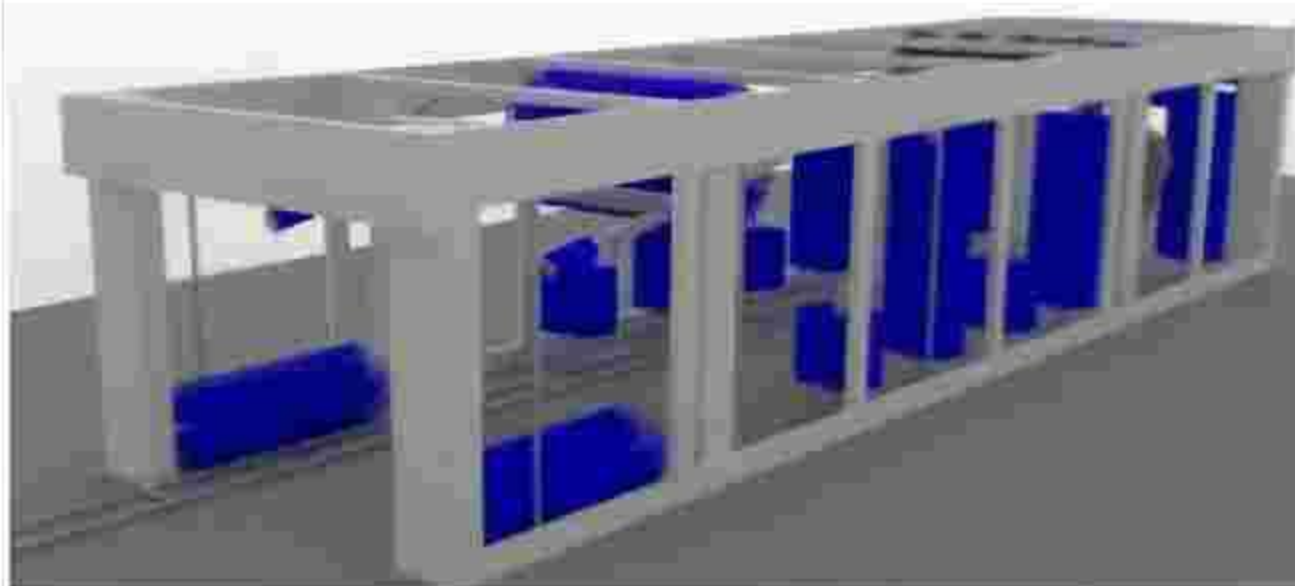


- ST3000**
- Dry Brush: 3
- Top Brush: 1
- Side Brush: 4
- Big Vertical Brush: 4
- Horizontal Wheel Brush: 2
- Total brush quantity: 14

CAROLINA SHINE EQUIPMENT TUNNEL SERIES

FOR ST1000 / ST2000 / ST3000



Standard Model	ST1000	ST2000	ST3000
Photo			
Machine Size (Length*Width*Height)	41'0" x 13'1" x 9'10"	49'3" x 13'1" x 9'10"	57'5" x 13'1" x 9'10"
Installation Size (Length*Width*Height)	78'9" x 14'9" x 10'6"	88'7" x 14'9" x 10'6"	98'5" x 14'9" x 10'6"
Max. Car Washing Size (Length*Width*Height)	Unlimited x 7'7" x 6'11"	Unlimited x 7'7" x 6'11"	Unlimited x 7'7" x 6'11"
Air Drying Blowers	6 groups*10.06HP	6 groups*10.06HP	6 groups*10.06HP
Suitable Cars	Sedan/SUV/MPV/4X4		
Wash Speed	60 cars/hour	60-80 cars/hour	80-100 cars/hour
	It can wash more than 1 cars at the same time.		
Water Consumption	21.1-39.6gallons/Car	21.1-39.6gallons/Car	21.1-39.6gallons/Car
Foam Consumption	0.236fl oz/car	0.236fl oz/car	0.236fl oz/car
Water Wax Consumption	0.406fl oz/car	0.406fl oz/car	0.406fl oz/car
Electricity Consumption	2047.29 BTU/Car	2047.29 BTU/Car	2047.29 BTU/Car
Power Supply	208V 60HZ 60.3HP	208V 60HZ 60.3HP	208V 60HZ 60.3HP
Top Brush	1	1	1
Big Vertical Brush	4	4	4
Side Brush	4	4	4
Horizontal Wheel Brush	/	2	2
Dry Brush	/	/	3
Total brush quantity	9	11	14
Frame structure	hot-dipped galvanized steel plate,life time:15-20 years		
Build-in washing steps	high pressure prewashing (water/foam) + foam spraying + brush cleaning + high pressure flushing + water wax coating + air blower drying + dry brush wiping (for ST3000 only)		
Customization	Tunnel car wash system is a highly customized product: machine size & material, every components & functions can be made according to customer's land size and using requirements.		

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



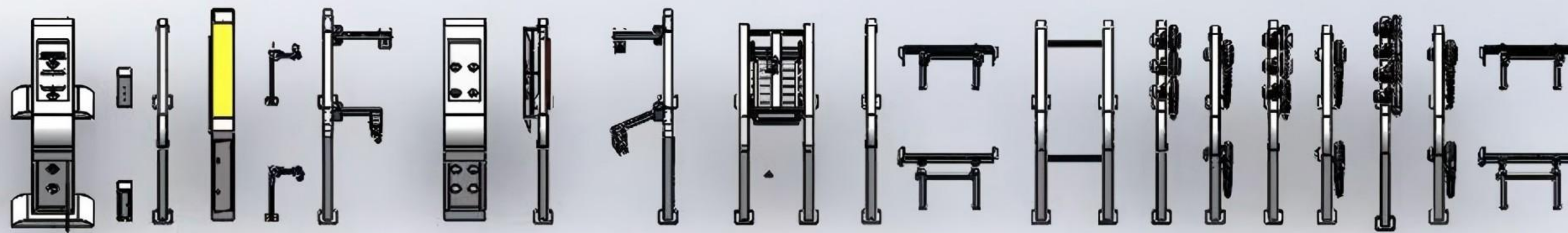
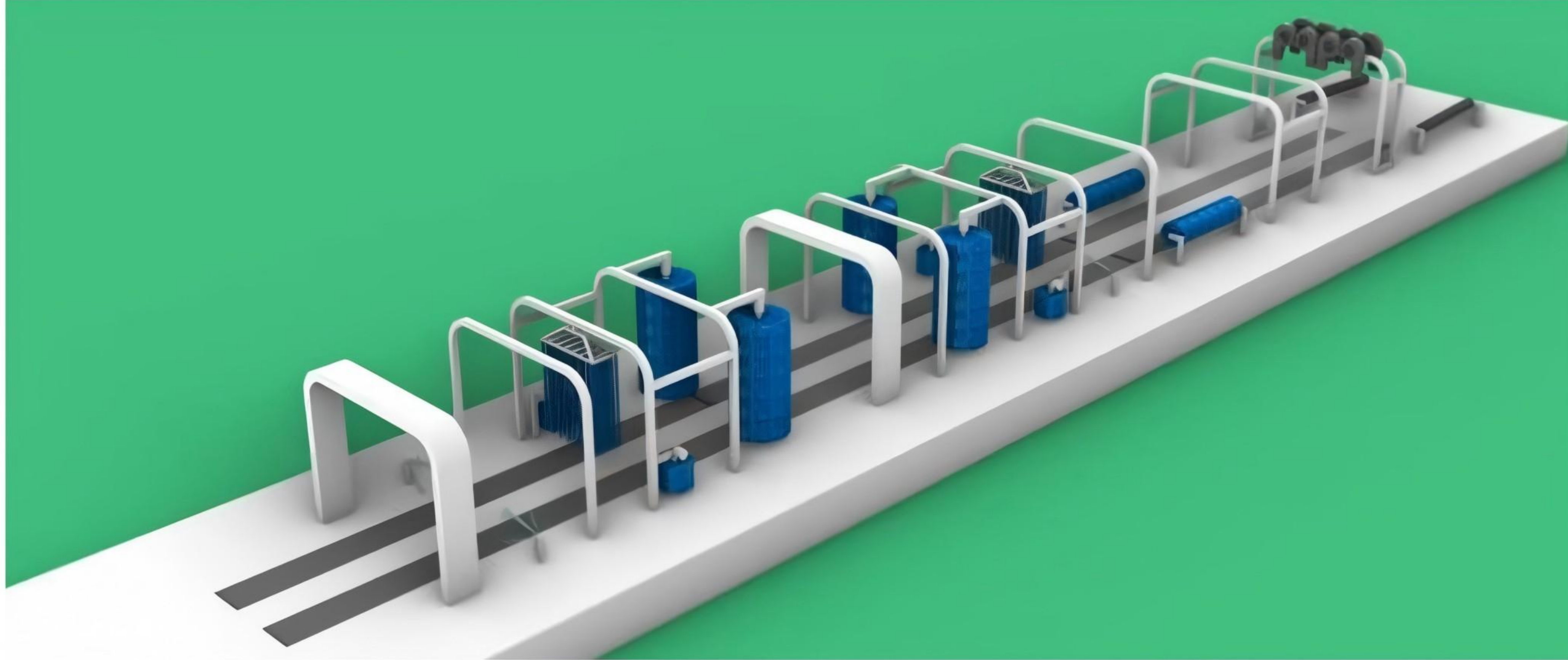
Main System		Main System	
1	Integral hot-dip galvanized steel main frame	15	Intelligent profiling current top brush system
2	Module design, mortise and tenon structure	16	New rack drive unobstructed arm side system
3	Coupling conversion transition rotation system	17	High quality anti rubbing pipe wire / 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

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Customized System Case



SN	Configuration&Function	SN	Configuration&Function
1	Single layer fabric curtain at the entrance	12	Auto washing chemical proportioning pump, 16 pieces
2	Double layer fabric curtain at the entrance	13	Germany Pinfl high pressure water pump (15KW)
3	Widely arch door with 6 high pressure rotation nozzles	14	Double side flat conveyor, width: 75cm
4	CTA wheel spraying	15	Water recycling system
5	LED waterfall foam with narrow arch door	16	Voltage transformer From 380V to US standard 208V 60HZ
6	Triple foam spraying with narrow arch door	17	Payment kiosk with backstage cloud management system and Mobile APP
7	Widely arch door with 12 low pressure rotation nozzles	18	Car plate recognition system
8	Water wax coating	19	Automatic gate barrier
9	Narrow arch door with reverse osmosis function, RO system capacity: 1 ton/hour	20	Water tanks: 6tons-2pcs, 2 tons-2pcs
10	Air drying blowers: 16 pcs*7.5KW	21	Stainless steel body structure
11	Wheel polish brushes, 1 pair	22	Other conventional functions
Start-of-the-art design&functions+Reliable quality&performance+Strong technical support&service			