



# CAR WASH SYSTEM

2024

Tunnel Car Wash (40M)  
SD1800Q-40

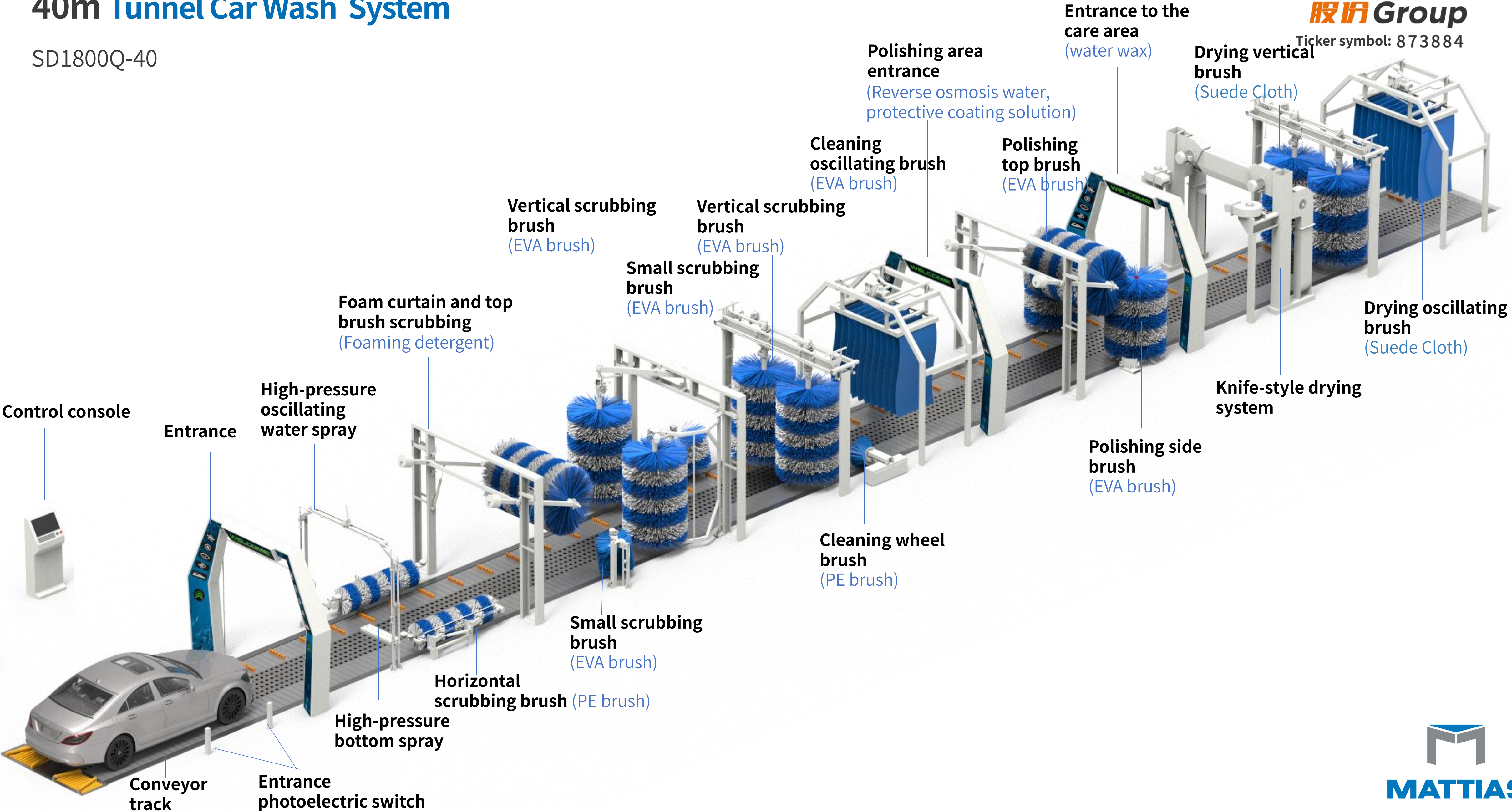


# 40m Tunnel Car Wash System

SD1800Q-40

巴兰仕 Balance  
股份 Group

Ticker symbol: 873884





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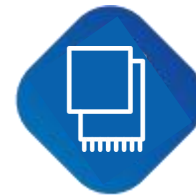
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High-pressure  
pre-wash

Scrubbing

Washing

Polishing

Care

Air  
drying

Drying &  
wiping



MATTIAS





1

## High-Pressure Pre-Wash Area

Experience the Power

Turbo Rotating Nozzles for Stubborn Stains.  
Shorter Wait Times Guaranteed!



DETAILS

SPECIFICATION

ACCESSORY

High-Pressure  
Pre-Wash Area

Oscillating water spray

Bottom spray

High-pressure water pump	GT40	PINFL,Germany
Reinformed rubber hose	Inner diameter 32, Five layers of rubber, Wall thickness 6mm, Working pressure 8-10 MPa	
Cylinder	MAL32×100	AirTax
Vertical bearing seat	UCP206	Stainless steel
Rotary joint	dn15	Stainless steel
Rotating Motor	WF71B4 B14 14/105 0.37KW	SITI
Nozzle	1'	Stainless steel
Frame	60	Hot-dip galvanized profiles (optional stainless steel)
Water pipe	dn15	Stainless steel /Hot-dip galvanized profiles
Shield	t3	Stainless steel
Nozzle	2'	Stainless steel



# Scrubbing area

360° Dynamic Cleaning

Top, Side, and Wheel Brushes

Follow The Car's Every Move!



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Scrubbing Area

Accessories

ACCESSORY	SPECIFICATION	DETAILS
Frame (Horizontal Brush)	50	Hot-dip galvanized profiles (optional stainless steel)
Frame (Top Brush / Vertical Brush)	200	Hot-dip galvanized profiles (optional stainless steel)
Bristles (Horizontal Brush)	350	PE
Bristles (Top Brush / Vertical Brush)	900	EVA
Cylinder (Horizontal Brush)	MAL32×175	AirTax
Cylinder (Top Brush)	MAL50×350	AirTax
Cylinder (Vertical Brush)	SAU32×400CA	AirTax
Vertical Bearing Seat (Horizontal Brush)	UCP206	Stainless steel
Vertical Bearing Seat (Top Brush / Vertical Brush)	UCP208	Stainless steel



Scrubbing Area

Accessories

ACCESSORYSPECIFICATIONDETAILS

Rotating Motor	WF71B4 B14 14/105 0.37KW	SITI
Motor Gearbox (Reducer)	ACW50-15 FCW80B4	SITI
Water Pipe	dn15	Stainless steel
Nozzle	1'	Stainless steel
Guide Wheel	150	Soft rubber
Cushion Seat	r30	Rubber
Brush Pipe	113	Aluminum profile
Buffer Shock Absorber	46	KAIFU





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## Washing area

Full Coverage Clean  
Cleaning and Wheel Brushes  
for a Spotless, Fast, and Thorough Wash!





Washing area

Accessories

ACCESSORY

SPECIFICATION

DETAILS

Frame	200	Hot-dip galvanized profiles (optional stainless steel)
Cylinder (Vertical Brush / Swing Brush)	SAU32×400CA	AirTax
Cylinder (Horizontal Brush)	MAL32X175	AirTax
Cushion Seat	r30	Rubber
Motor Gearbox (Reducer)	ACW50-15 FCW80B4	SITI
Vertical Bearing Seat (Vertical Brush)	UCP206	Stainless steel
Vertical Bearing Seat (Swing Brush)	UCP208	Stainless steel
Bristles (Horizontal Brush)	350	PE
Bristles (Vertical Brush / Swing Brush)	900	EVA





Washing area

Accessories

ACCESSORY

SPECIFICATION

DETAILS

Brush Pipe	113	Aluminum profile
Buffer Shock Absorber	46	KAIFU
Motor Gearbox (Reducer)	ACW50-15 FCW80B4	SITI
Polishing Bristles	1400	EVA
Wheel Brush Motor	R07DR63S4	SITI
Rotating Motor	HC63KH51	SITI
Cylinder	MAL32X350	AirTax



4

## Polishing area

Rinse with Reverse Osmosis  
Shine with Coating Brilliance!





Polishing area

Accessories

ACCESSORY

SPECIFICATION

DETAILS

Frame	200	Hot-dip galvanized profiles (optional stainless steel)
Cylinder (Top Brush)	MAL50×350	AirTax
Cylinder (Vertical Brush)	SAU32×400CA	AirTax
Vertical Bearing Seat (Top Brush)	UCP206	Stainless steel
Vertical Bearing Seat (Vertical Brush)	UCP208	Stainless steel
Rotating Motor	WF71B4 B14 14/105 0.37KW	SITI
Motor Gearbox (Reducer)	ACW50-15 FCW80B4	SITI
Bristles (Top Brush / Vertical Brush)	900	EVA





## Care area

Spray-on Wax for Lasting Brilliance  
Complete Protection!

5



ACCESSORY

SPECIFICATION

DETAILS

Care area

Accessories

Frame	200	Hot-dip galvanized profiles (optional stainless steel)
Cylinder	SAU32×400CA	AirTax
Nozzle	2'	Stainless steel
Water Pipe	dn15	Stainless steel
Water Wax Pump	-	WELL-OFF





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## Air drying area

6 x 7.5KW Powerful Dryers  
for Effortless Water Stain Removal!





Air drying area

Accessories

ACCESSORY

SPECIFICATION

DETAILS

Drying Motor	T3	Wonder
Motor	5.5Kw-7.5Kw	SITI
Rotating Motor	40W	SITI
Fan Blade	290	Hot-dip galvanized/ Dynamic balancing
Frame	200	Hot-dip galvanized profiles (optional stainless steel)
Cylinder	SAU32×250CA	AirTax
Cushion Seat	r30	Rubber





# Drying & wiping



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7 Suede Fabric Brushes  
Superior Absorbency & Quick Change!





Drying & wiping

Accessories

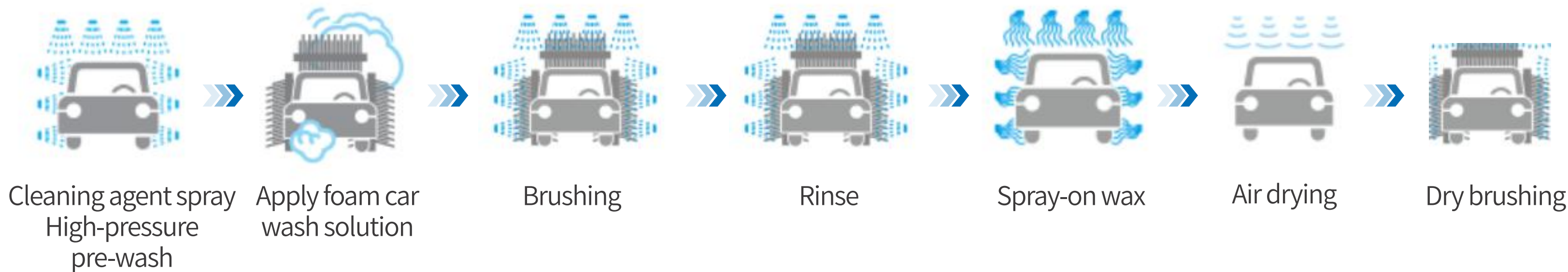
ACCESSORY	SPECIFICATION	DETAILS
Frame	200	Hot-dip galvanized profiles (optional stainless steel)
Vertical Bearing Seat	UCF205	Stainless steel
Bristles (Vertical Brush)	900	Suede brush
Bristles (Swing Brush)	500	Suede brush
Brush Pipe	113	Aluminum profile
Buffer Shock Absorber	46	KAIFA
Motor Gearbox (Reducer)	ACW50-15 FCW80B4	SITI



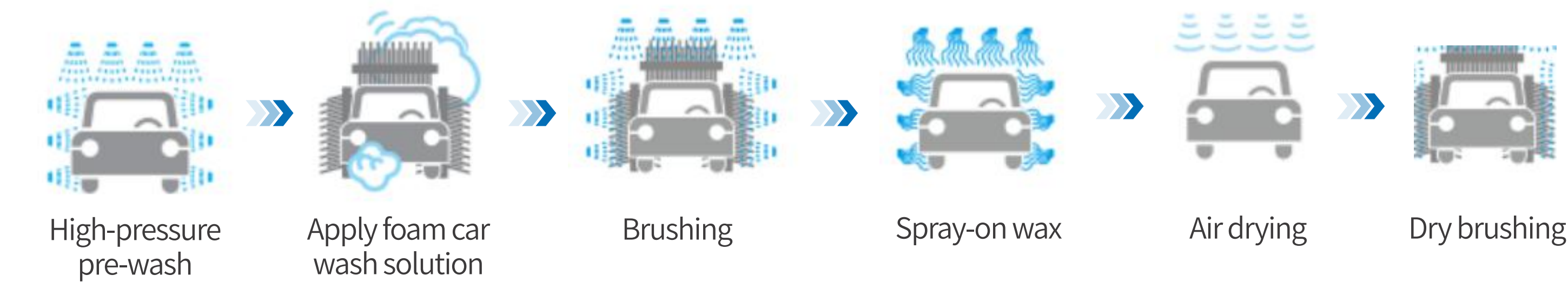


# CAR WASH MODES

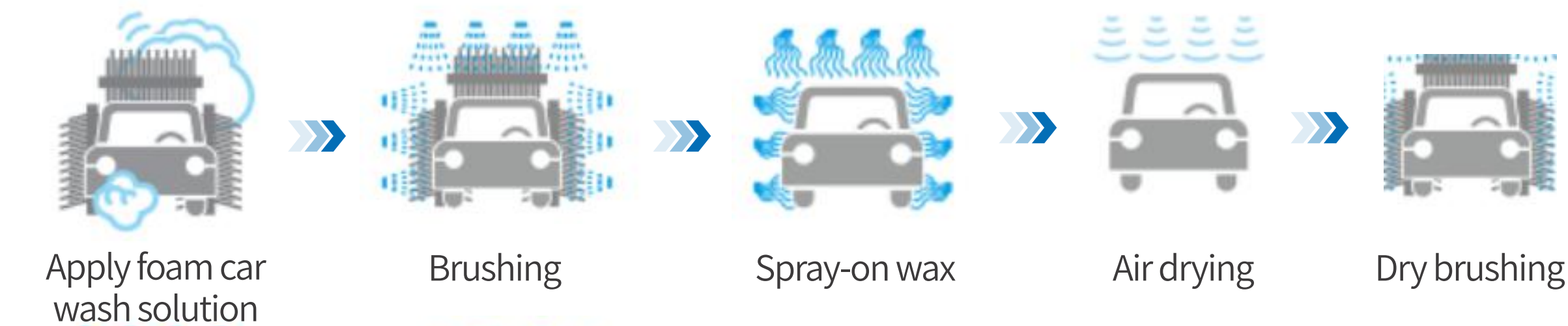
## MODE 1



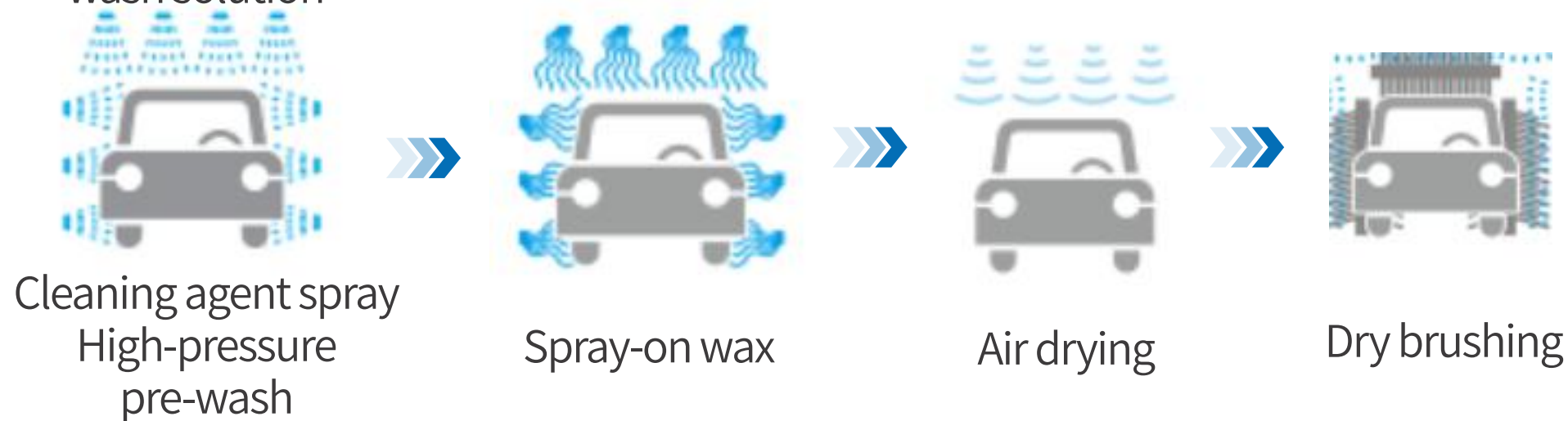
## MODE 2



## MODE 3

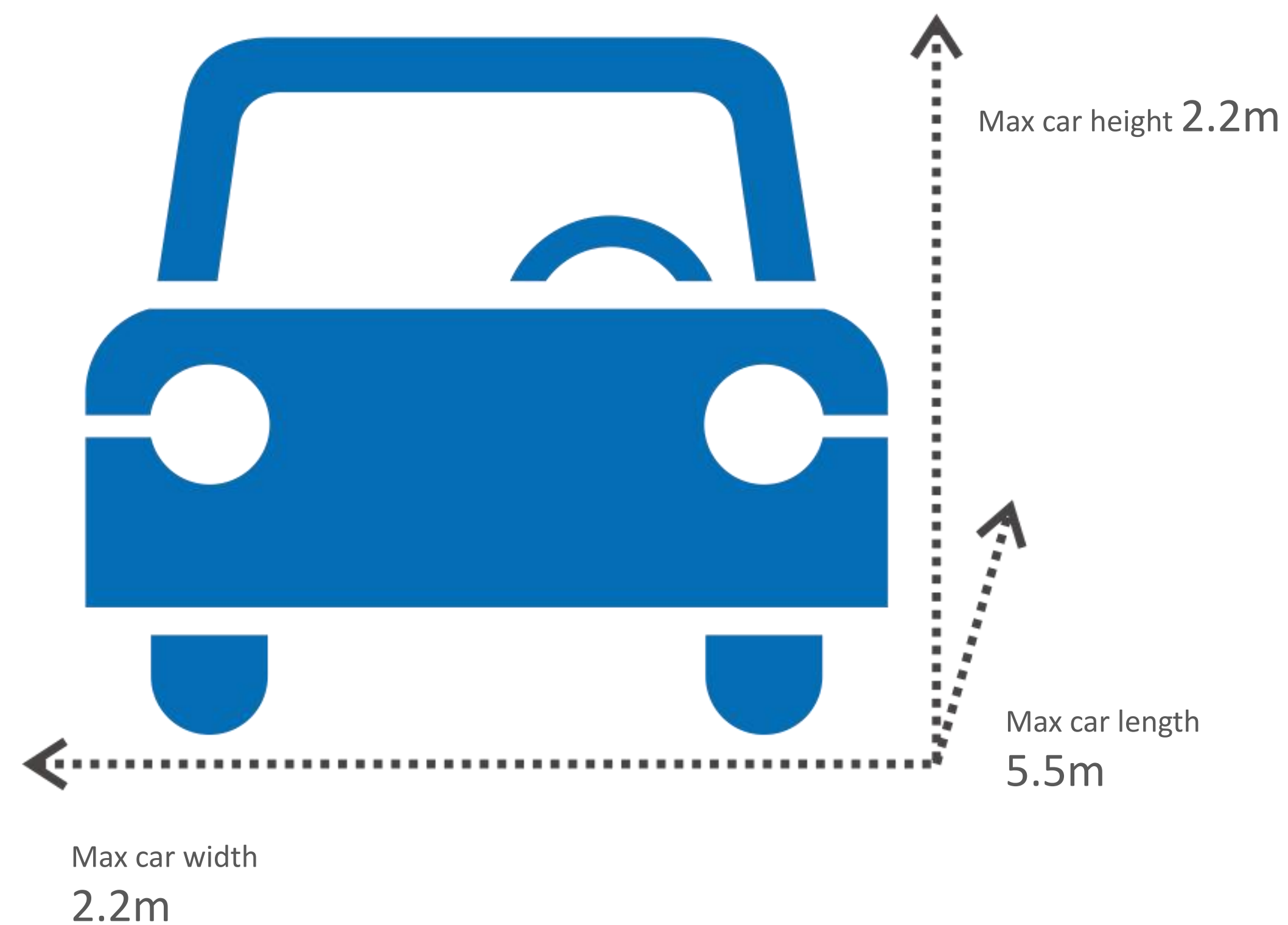


## MODE 4





# BUILD FOR MORE OPTIONS





## DETAIL FEATURES

# 『Double-Frame Design』

Strong, Rust-Resistant Double-Frame  
Your Year-Round Car Care Companion!

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DETAIL FEATURES

360° Brushing Embrace  
for Gentle yet Powerful Car Cleaning



## Rapid Drying Power with 6 x 7.5KW Blowers

Standard: 4 Fixed Top Blowers, 2 Fixed Side Blowers (Customizable)

**Flawless Shine, Water-Free!**

Optional 6 x 5.5KW blowers:

Contour-following top blower\*2 / Fixed top blower\*2 / Fixed side blower\*2





## DETAIL FEATURES

# Stay Safe, Wash Efficiently

Our Tailgating Prevention System Ensures Dual Car Wash.

Wash 150-180 Cars per Hour!



**WELCOME!**

**巴兰仕 Balance  
股份 Group**

Ticker symbol: 873884

# Powerful Rotational High-Pressure Jets

Vanish Dirt and Grime

Experience Comprehensive High-Pressure Cleaning!



**MATTIAS**



DETAIL FEATURES

# Experience Brilliance

Illuminate Car Wash Journey  
with Customizable Colors and Displays!



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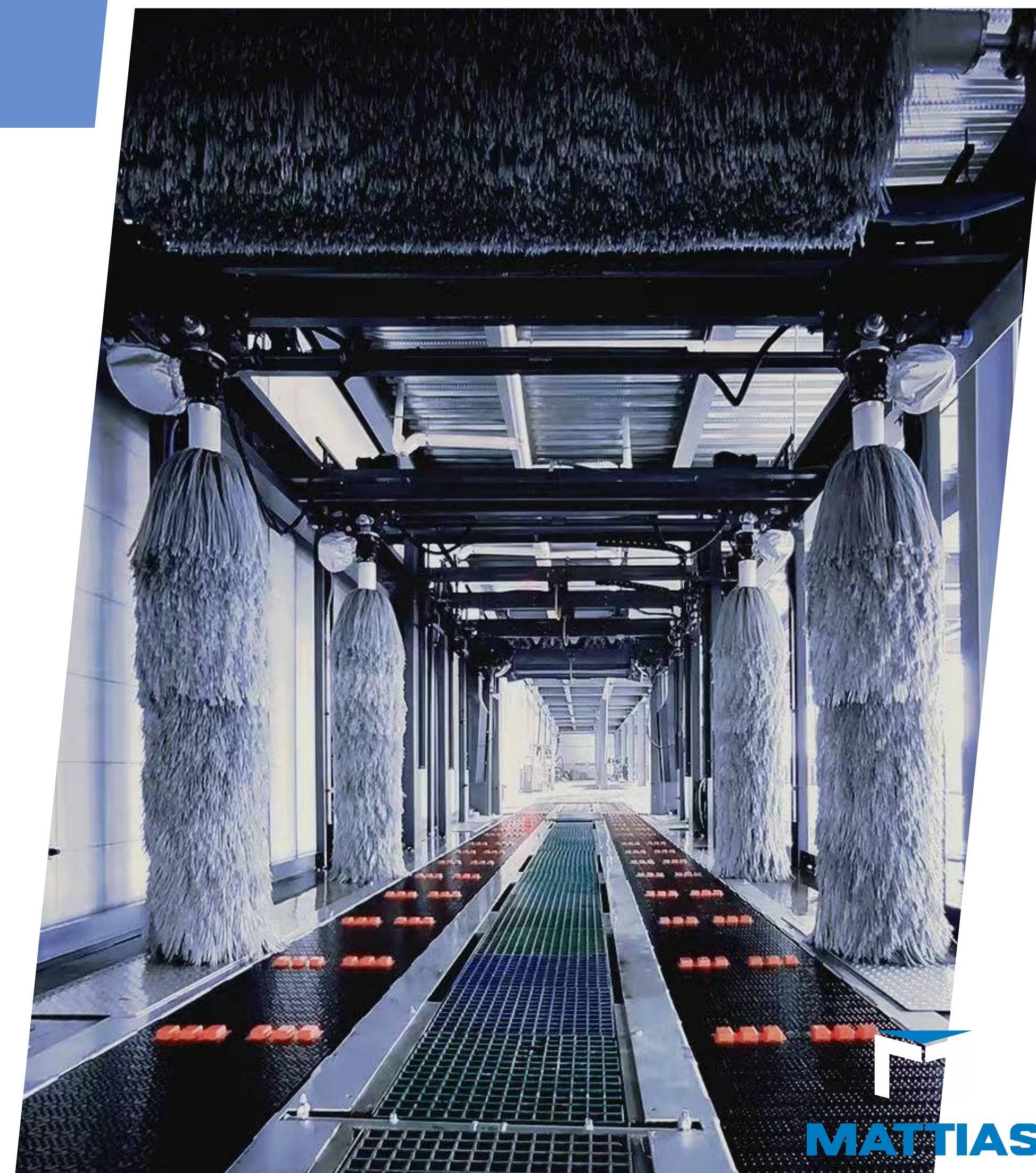
“Choosing MATTIAS is primarily due to its machine durability and excellent after-sales service. Additionally, it has an attractive and premium appearance.”

From a Gas station customer

## Conveyor track

American-style chain, optional double flat plate

Hot-dip galvanizing process, better durability





Conveyor

Accessories

ACCESSORY

SPECIFICATION

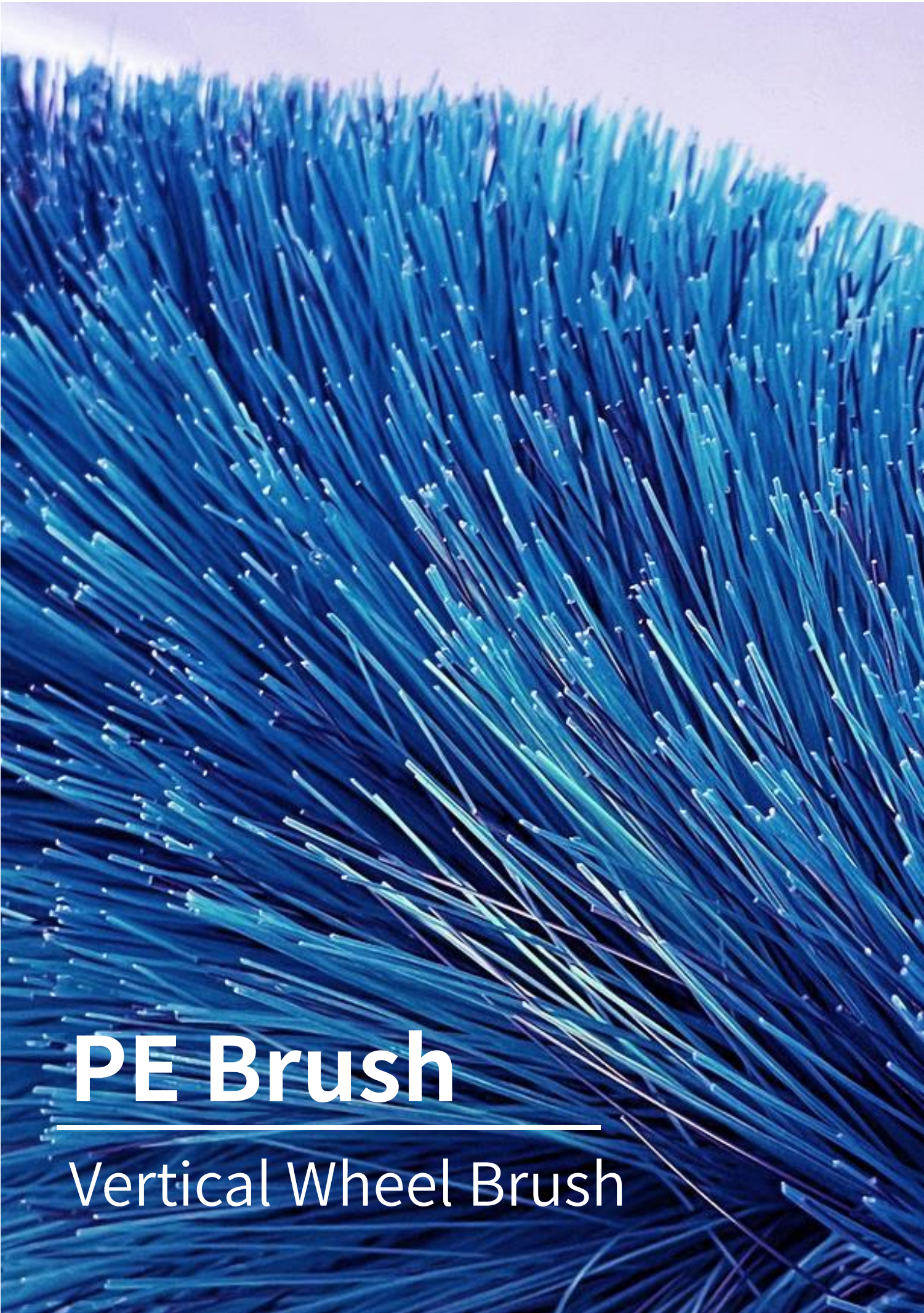
DETAILS

Aligner	Sliding Table Type	Self-made
Motor	K87DRN132S4/7.5Kw	SITI
Gearbox (Reducer)	WPWD40-30-19-A	SITI
Round Short Chain	14X50	ISO
Bearing Seat	UCF213	Stainless steel
Sprocket	Matched with 14X50X7 input/output	ISO
Idler	90	pe
Support Frame	10#	Self-made





DETAIL FEATURES





## DETAIL FEATURES



Integrated intelligent liquid proportioning system



Intelligent Low-temperature Start-Stop System



Car wash count tracking



Fault self-checking system



Phase loss power cut-off protection

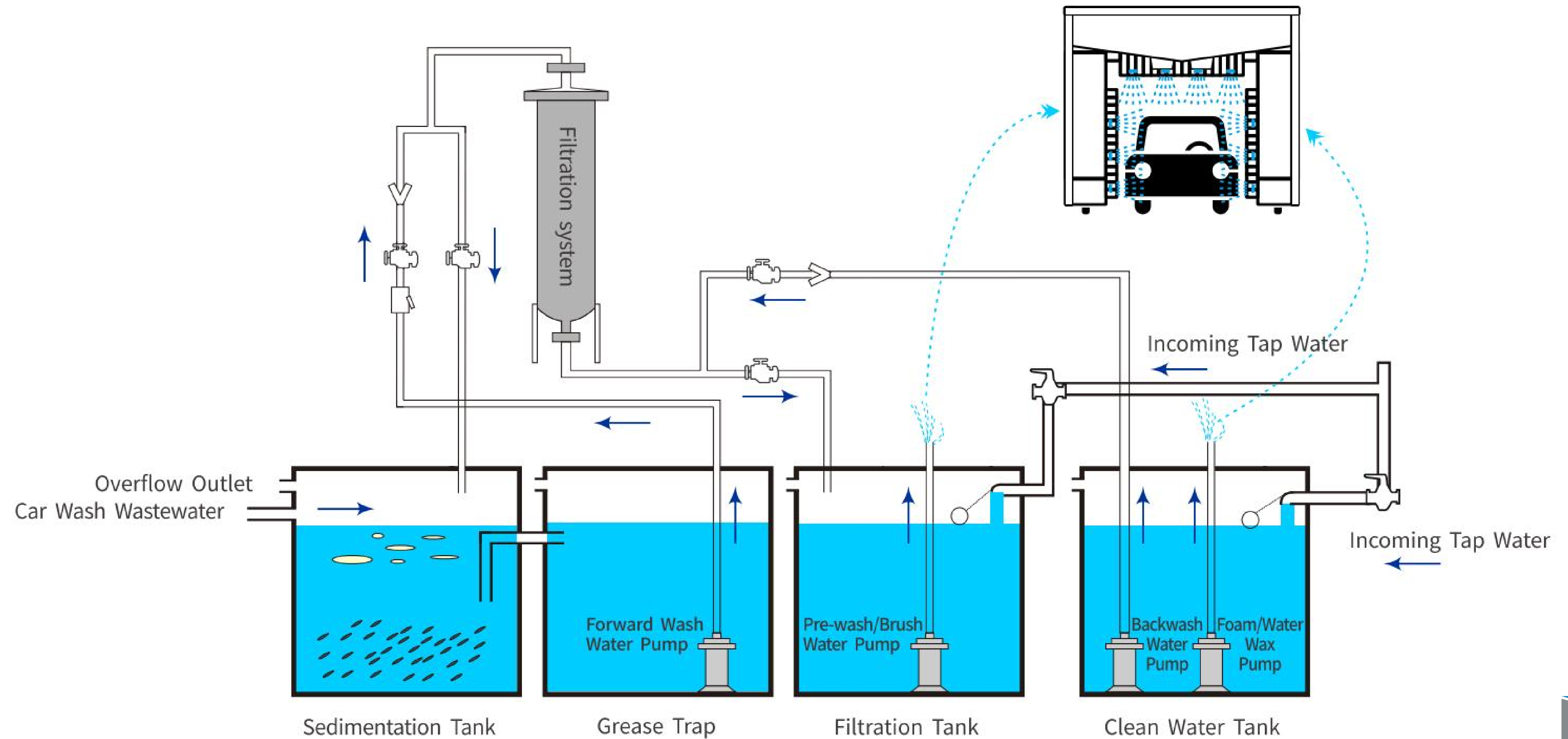


AGV Collision Protection



## Car wash sewage purifier

### Working Process of Wastewater Purification Equipment





CAR WASH SEWAGE PURIFIER(Optional)



Dimensions

Consumption

Control

Capacity

Mode l	SE-2T
L	1750mm
W	600mm
H	1850mm
Total power	1.8KW
Max.Operating Power	1.05KW
Submersible Pump	0.75KW
Aeration Pump	0.3KW
Backwash Pump	0.75KW
Power Supply	AC380V50Hz
Filtration	Water Treatment
Aeration	Control Valve
Backwash	Manual Operation
Treatment Range	Car Wash Water
Treatment Capacity	3-10m³/H





## PARAMETERS

Max. car wash dimensions (L*W*H)(m)
Machine dimensions (L*W*H)(m)
Installation space (L*W*H)(m)
Car wash Time
Water pump pressure
Air supply requirements
Power supply requirements

SD1800Q-40
5.5 * 2.2 * 2.2
35 * 3.7 * 3.0
52 * 4 * (>4)
Around 3-4 mins. per car
0.6MPa
0.6~0.8MPa
AC380V 60Hz 3PH/ /240V 60Hz



PARAMETER TABLE

Dryer System	Top Dryer	4 fixed dryers x 5.5kW
	Side Dryer	2 fixed dryers x 5.5kW
Brush System	Top Brush	Counterweight + Rotating cylinder
	Side Brush	Pneumatic (Wrap around verticle brush)
	Small Brush	Pneumatic opening & closing small brush
	Material of Brush	Japanese EVA foam brush + Suede Cloth + PE brush
Wash Liquid System	Car Wash Liquid	User-customized mixing ratio car wash soap,standard ratio pump for automatic mixing
	Water Wax	User-customized mixing ratio water wax,standard ratio pump for automatic mixing
	Other	User-customized mixing ratio with standard ratio pump for automatic mixing



PARAMETER TABLE

Travel System	American-style chain (optional double flat plates)
AGV Collision Protection	Standard
Control System	Mitsubishi PLC control system
Unattended	Optional
Display	10"LCD touch screen/MCGS
Car wash Quantity Tracking	Standard
Fault Self-diagnosis	Standard
Rearview Mirror Deflection/ Clearing Function	Standard
Beyond Centerline Wash	Standard
Smart Parking Guidance	Standard



PARAMETER TABLE

Overall Structure	Hot-dip galvanized profiles (optional stainless steel)
Multi-stage Submersible Pump	Standard (water pump pressure 0.6MPa)
High-pressure Water Pre-rinsing	Standard PINFL(Germany) (Plunger pump, water pump pressure 2-3MPa) Oscillating
Intelligent Low-temperature Start-stop System	Standard
Voice Broadcast System	Standard
Payment Method	Customizable
Water treatment/Customer-supplied Water Tank Specifications	6 tons/h, 10t water tank
Customer-supplied Air Compressor Specifications	7.5kW, 1m <sup>3</sup> /min,0.4- 0.8MPa



KEY COMPONENTS

Proximity Switch	Banner, USA
Photoelectric switch	Banner, USA (includes transmitter and receiver)
Key/button Switch	Schneider
Relay	Schneider
Touch Screen	Kunlun Tongtai
Inverter	Delta
Submersible Pump	Kaili
Electromagnetic Diaphragm Metering Pump	WELL-OFF
Cylinder	AirTax
Motor	SITI, Italy
Shock Absorber	KAIFA



PLC Expansion Module	Mitsubishi
PLC Programmable Controller	Mitsubishi
Emergency Stop Switch	HKNS
Contactor Mechanical Interlock Piece	Schneider
Serial Copper Busbar	Schneider
AC Contactor	Schneider
Thermal Relay	Schneider
Standard Parts	Aozhan
Pneumatic Valve	AirTax
Valve	YongChuang



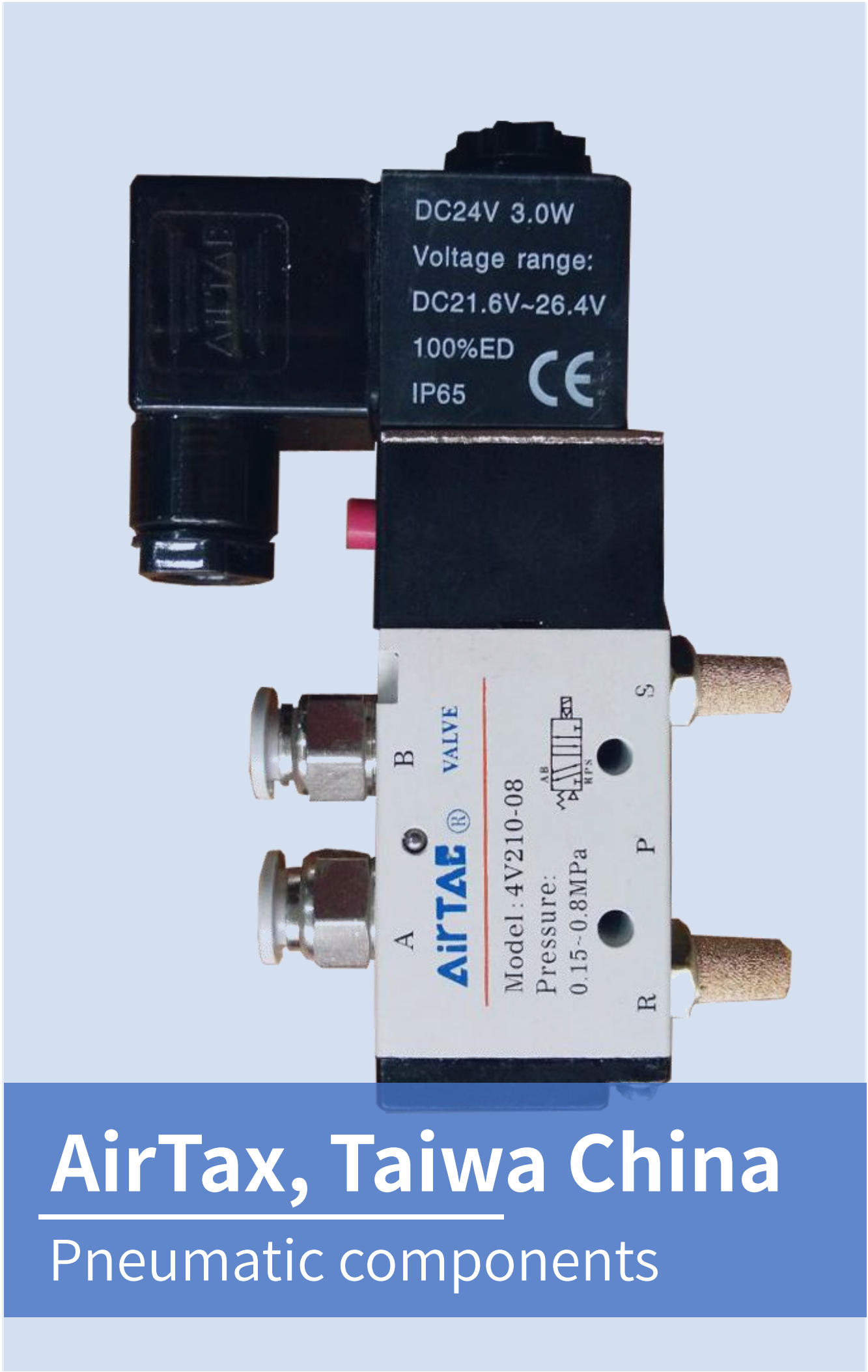
Main Components Display



Schneider  
Industrial-grade circuit



SITI,Italy  
Motor



AirTax, Taiwa China  
Pneumatic components





Stainless steel  
bearings



AirTax cylinder



Banner  
Photoelectric switch





# THANK YOU



Smart Car Wash Expert