

# RS v4

## Rollover

واتن ثرو  
WASHTHRU®



Designed By:

ميكاترونكس  
Mechatronics

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The first Saudi brand to develop and manufacture  
Automatic car wash Machines

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# Washing stages

Enjoy a complete and effective washing experience, as all these steps combine to deliver the utmost cleanliness and shine.

# Washing stages

1

## Initial wash



The car is sprayed with low-pressure water and specialized chemicals to remove dirt and stuck-on deposits.

2

## Underbody wash \*



A special stage for cleaning the bottom of the car and hard-to-reach areas under the body.

\* Optional

3

## High pressure washing



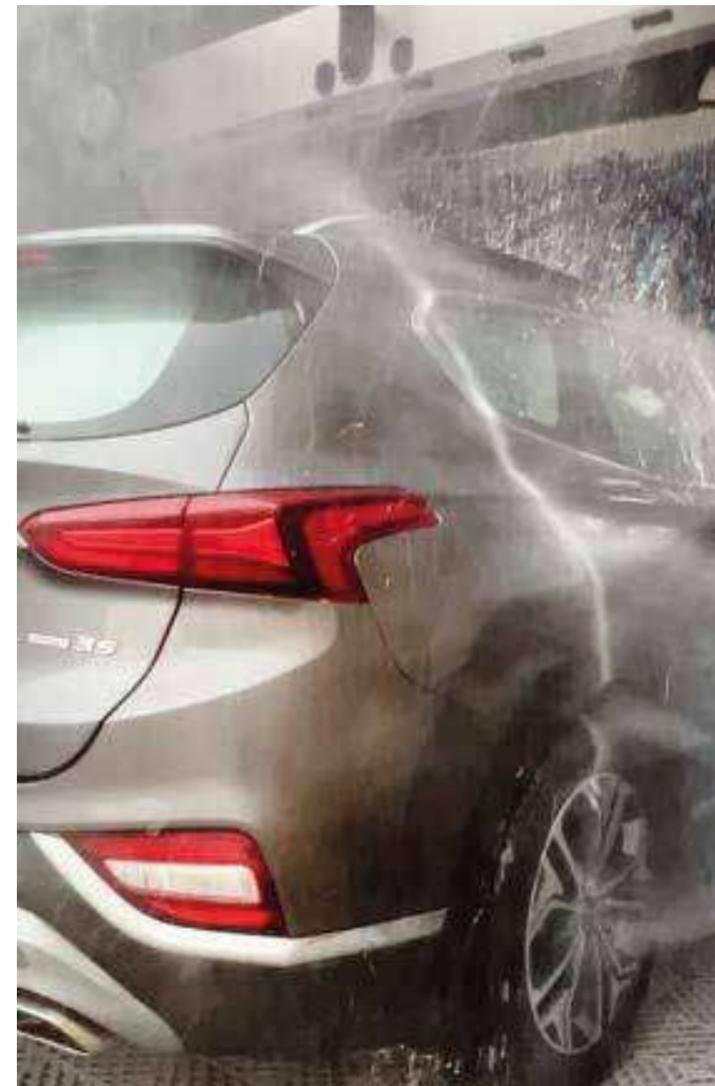
The car is sprayed with high-pressure water to wash the front, back, top and sides, focusing on removing stubborn dirt.

4

## Spray foam



A special cleaning foam is sprayed to improve the washing process and remove dirt effectively.



# Washing stages

5

## Washing with brushes

The brushes enable the removal of stubborn dirt that cannot be removed by spraying alone.

6

## Initial rinse

The car is initially rinsed to remove any remaining residue (if any).

7

## Final rinse with wax spray

An additional rinsing stage includes spraying optional polishing agents (which can be from a different water source).

8

## Drying

The car is dried effectively using an advanced system that covers the front, back, top and sides.





# Rollover Machine

Model number: RS-V4



Made in:  
Kingdom of Saudi Arabia



Installation, training and  
maintenance by a specialized team

**5** years control  
panel warranty

**2** years warranty against  
manufacturing defects

Our Machine combines technological  
intelligence and superior performance

## Choose wisely

## Water Consumption

Water consumption is 240 liters per car, and only 24 liters with the recycling device.

## Electricity

Electrical source must be 3-phase, 380 Volts, 60 Hz with a maximum power capacity of 47 kW (1.25 KWH per car).

For more details, watch the video (scan the barcode) or [click here](#).



## Brushes

5 very soft brushes made of Ethylene Vinyl Acetate (Carlite).

## Dryers

High-performance top and side dryers with 3600 RPM.

- Weight: 1,900 kg

- Capable of washing and drying cars up to 5.9 meters in length.

- High-efficiency touchless wash feature for vehicles with medium-level dirt.

- 10 built-in customizable programs with remote control capability.

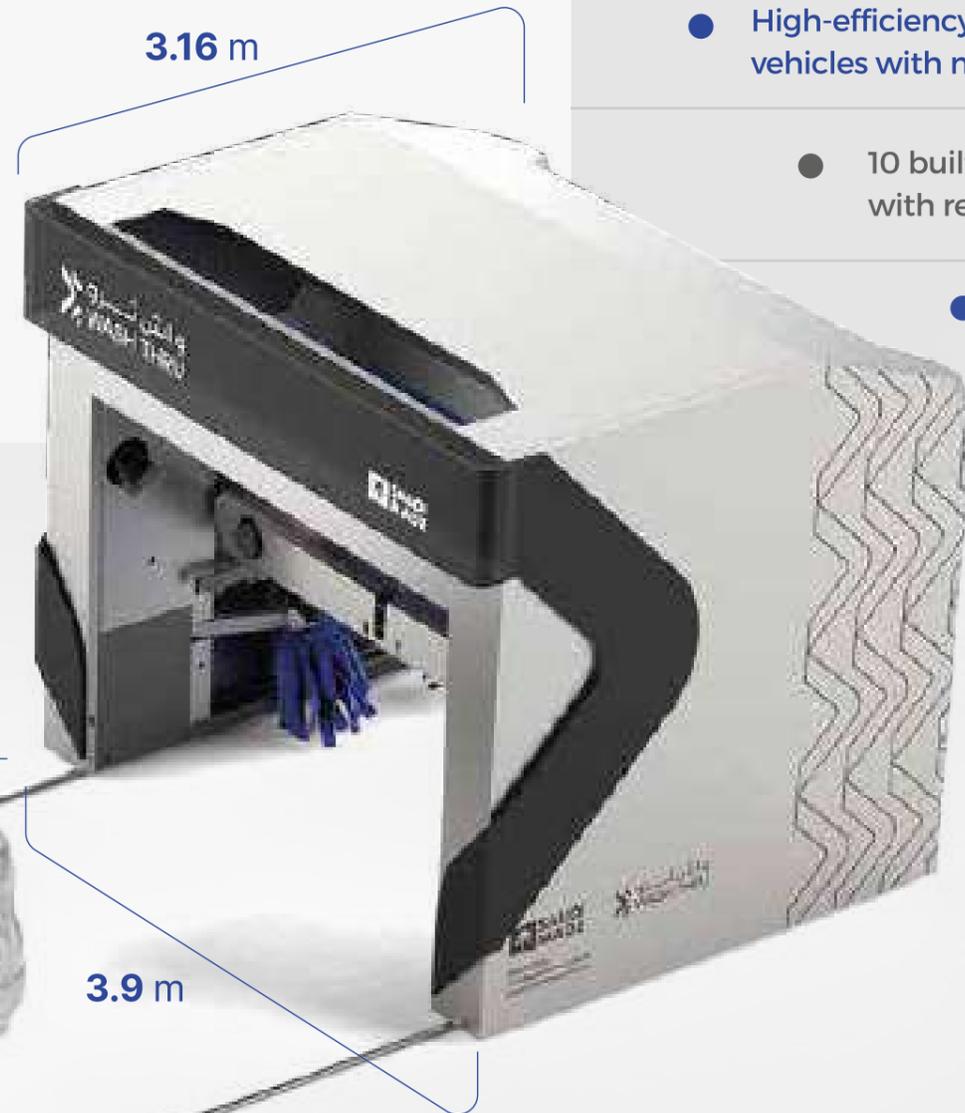
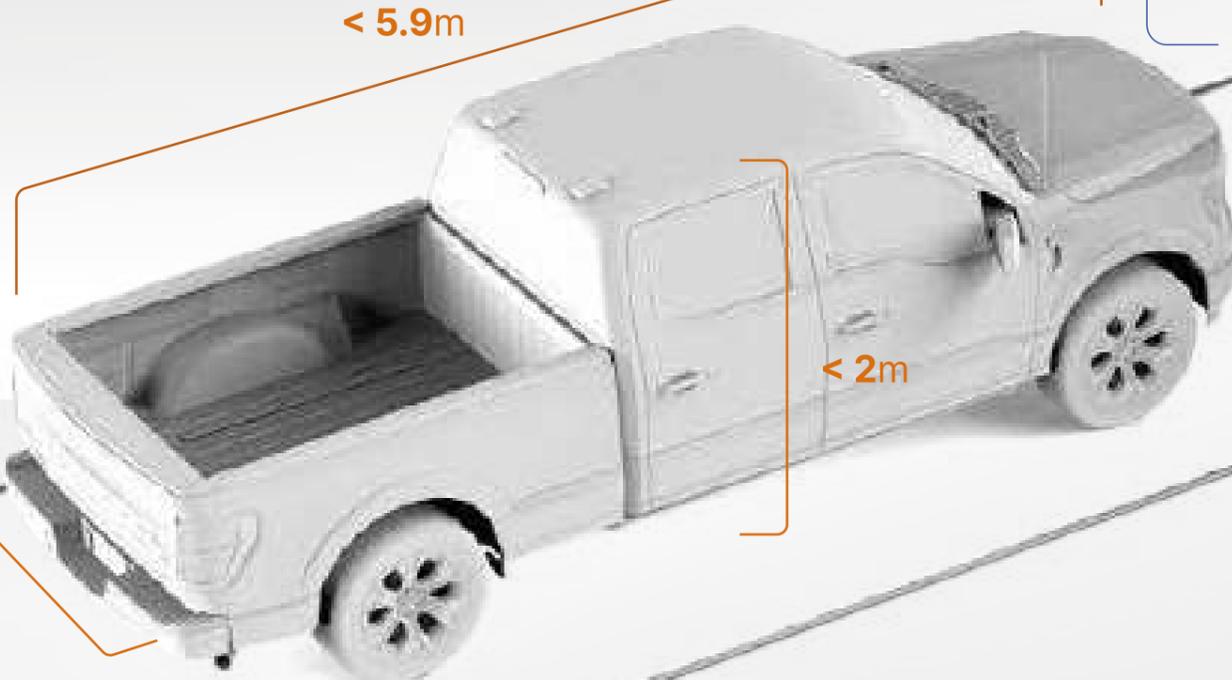
- 12 flat MEG spray nozzles (stainless steel) for high-pressure washing.

## Vehicle Dimensions

Height: 2 m

Width: 2.6 m including side mirrors, 2.1 m without side mirrors

Length: up to 5.9 m



Completion of all washing and drying stages within an average duration of

minutes **4**

A design that ensures superior performance and an appearance that harmonizes with the latest technology trends.

**Exterior Structure** is made of rust-resistant aluminum panels.

**All pipes and their extensions** are made of stainless steel.

**Interior covering** made of stainless steel.

**Stainless steel structure** at all contact points.

**Internal structure** made of hot-dip galvanized steel, which is rust-resistant.



**Front and side fiber cover**  
Elegant design that provides an aesthetic appearance to the device.

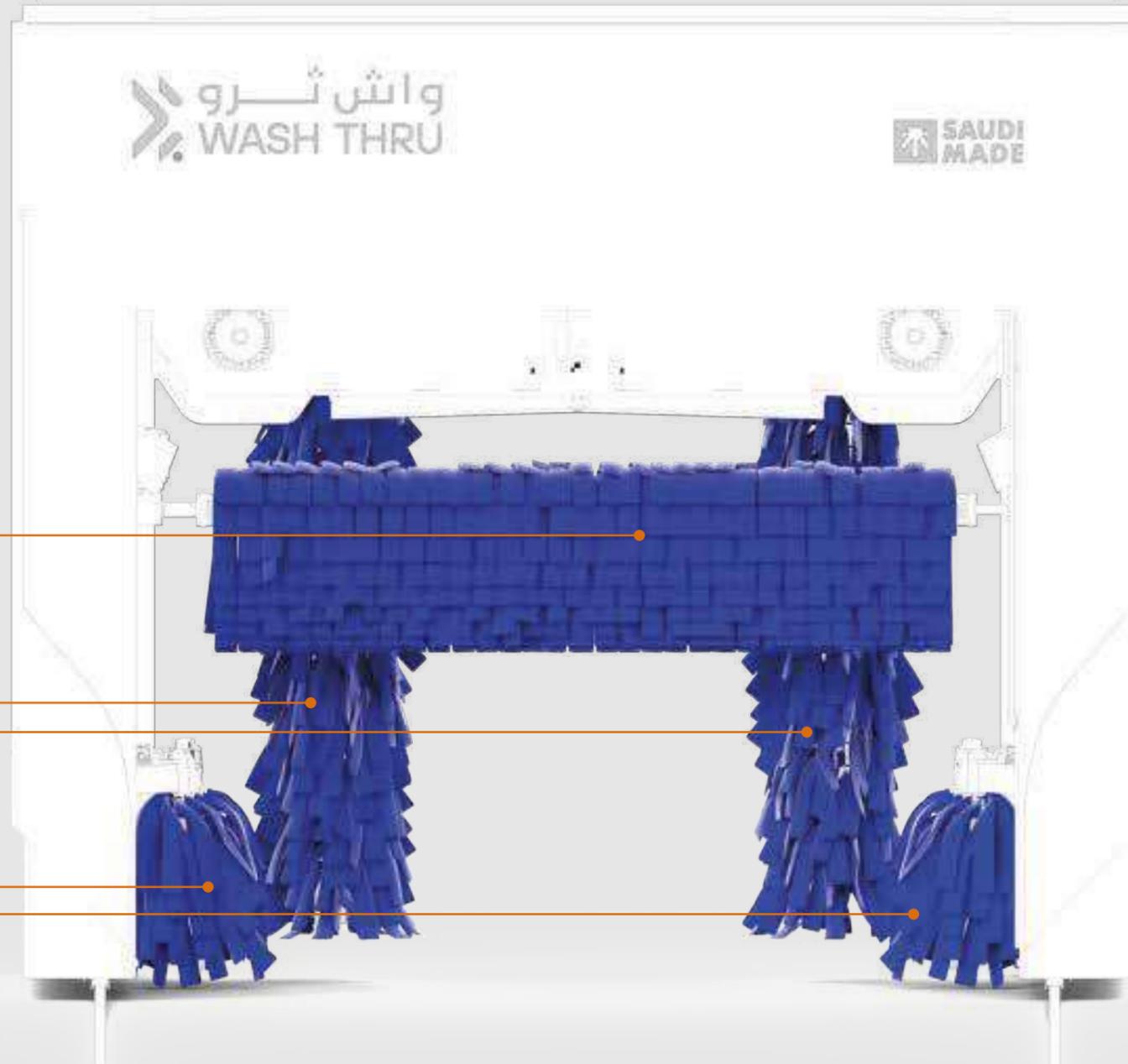
**Dynamic LED lighting** for the logo.

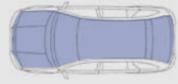
**Illuminated carbon fiber panel.**  
Illuminated carbon fiber panel with LED edge lighting (on both sides).



**Customizable advertising area**  
Customizable advertising area on both sides of the device.

## Technological superiority with the brushes of the automatic car washing machine.



Number of Brushes	Washing Area
1	Top of the car 
2	Front, rear, and sides of the car 
2	Edges and wheels of the car 

- ✓ **5 very soft brushes** made of Ethylene Vinyl Acetate (Carlite)
- ✓ **with very low hardness** to ensure the safest performance.
- ✓ **Self-cleaning brushes** before and during washing.
- ✓ **Touch sensors** Highly sensitive control unit capable of measuring brush contact up to 1 cm.

+ Brush tilt sensors for optimal adaptation to the shape of the car

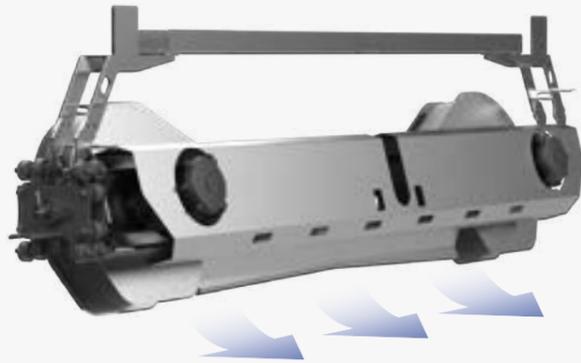
+ Special angled brush for cleaning the edges and lower corners of the car.



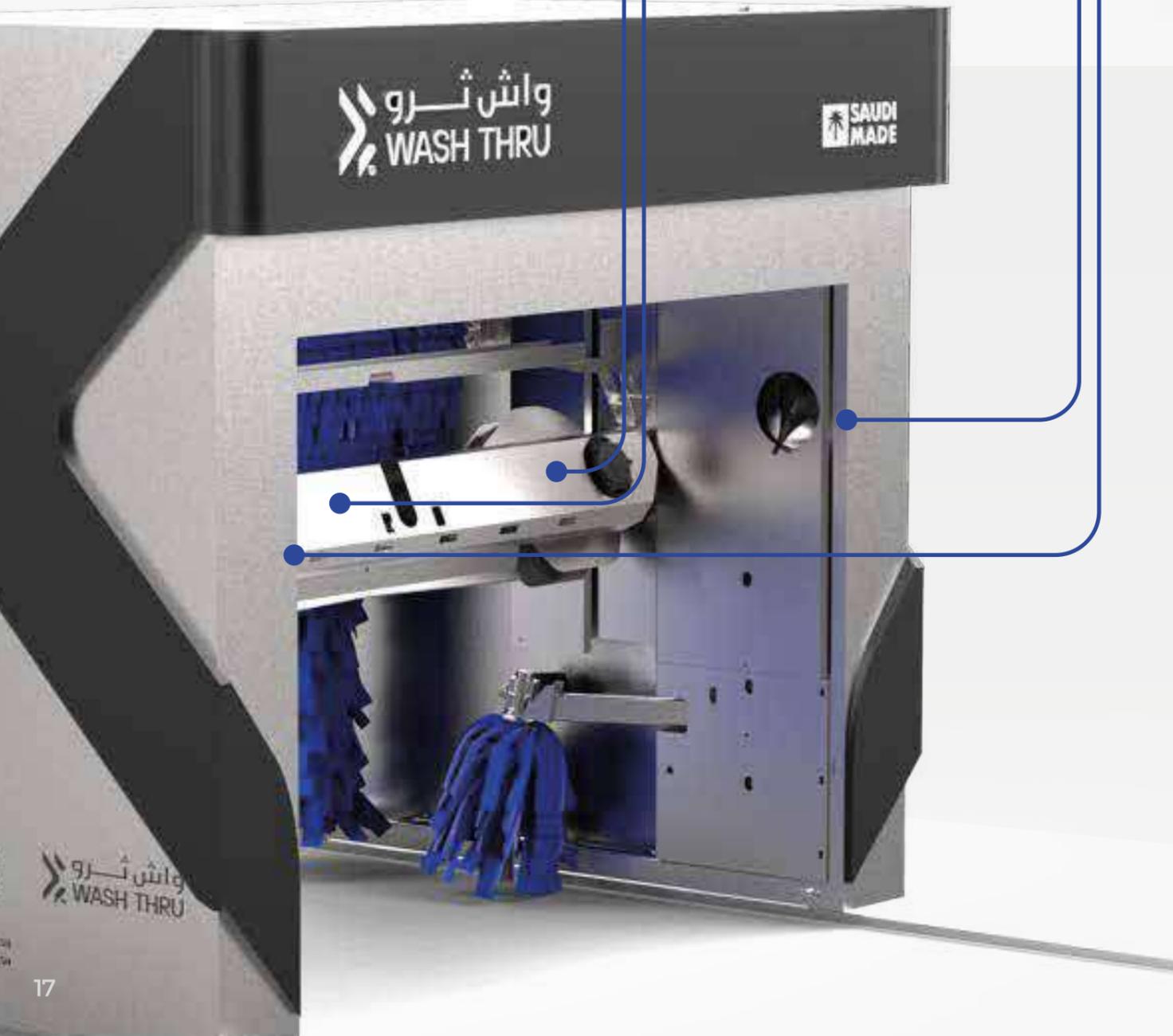
### Brush Safety

- Softer than the car's paint.
- Does not attract any dirt or debris during washing.
- Does not absorb water.
- Reduces water usage during washing.
- Long-term use up to 70,000 cars.

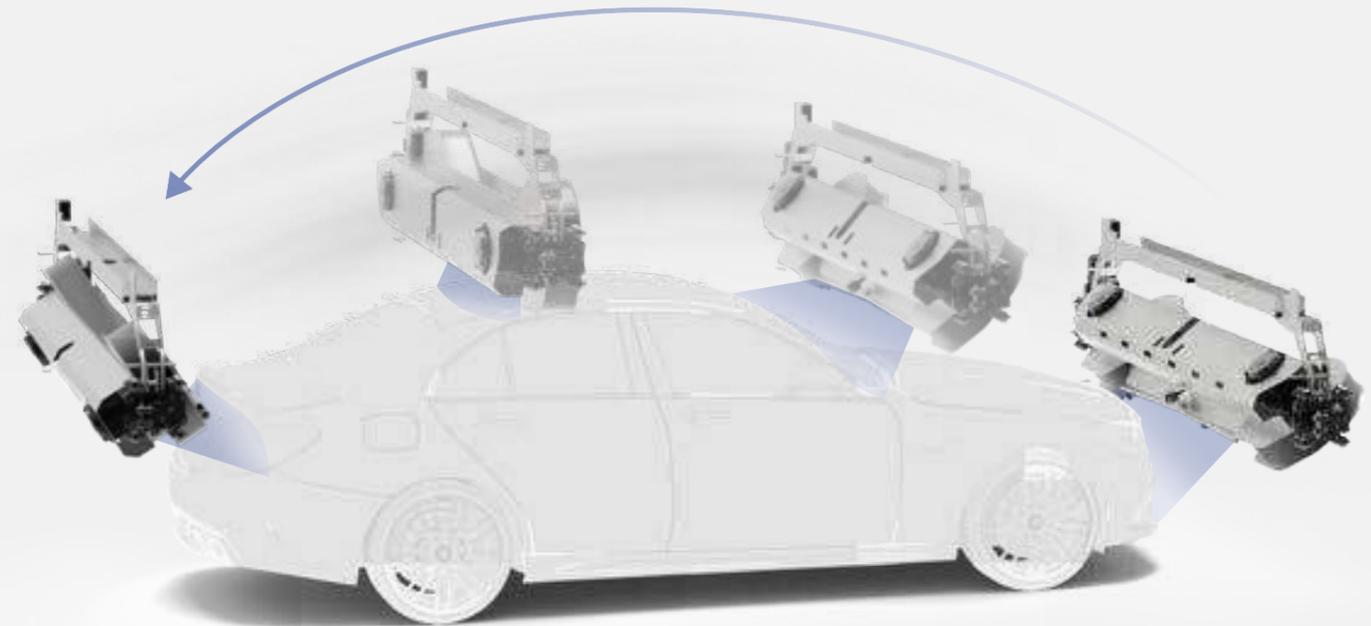
**2 Top Dryers**  
with a power  
of 5.5 kW.



**2 Side Dryers**  
with a power  
of 7.5 kW.



Modern technology ensures highly effective drying to reduce final touch-up time for your customers.



## Drying efficiency up to **90%**

Thanks to a smart dryer that wraps around the vehicle to achieve optimal performance.

- Top and side dryers with high airflow at speeds exceeding 250 km/h at the air outlet.
- The top dryer uses ultrasonic waves to determine the exact dimensions of the vehicle (with an accuracy of 0.5 mm). This greatly helps in achieving optimal drying efficiency.
- Smart wrap-around feature to cover the front and rear areas of the car.

Advanced technology ensures optimal water distribution, making each wash a unique experience.

Technology that pumps water with high efficiency, achieving even distribution and appropriate pressure.



The pumps operate within a safe pressure range (20-24 bar) with a cleaning impact of 1.5-2 psi.

# Pumps 4-5\*

High-pressure pump	(25 bar)
Low-pressure pump (for initial washing)	(4 bar)
Medium-pressure pump (for brushes)	(9 bar)
Low-pressure pump (for final rinse)	(4 bar)

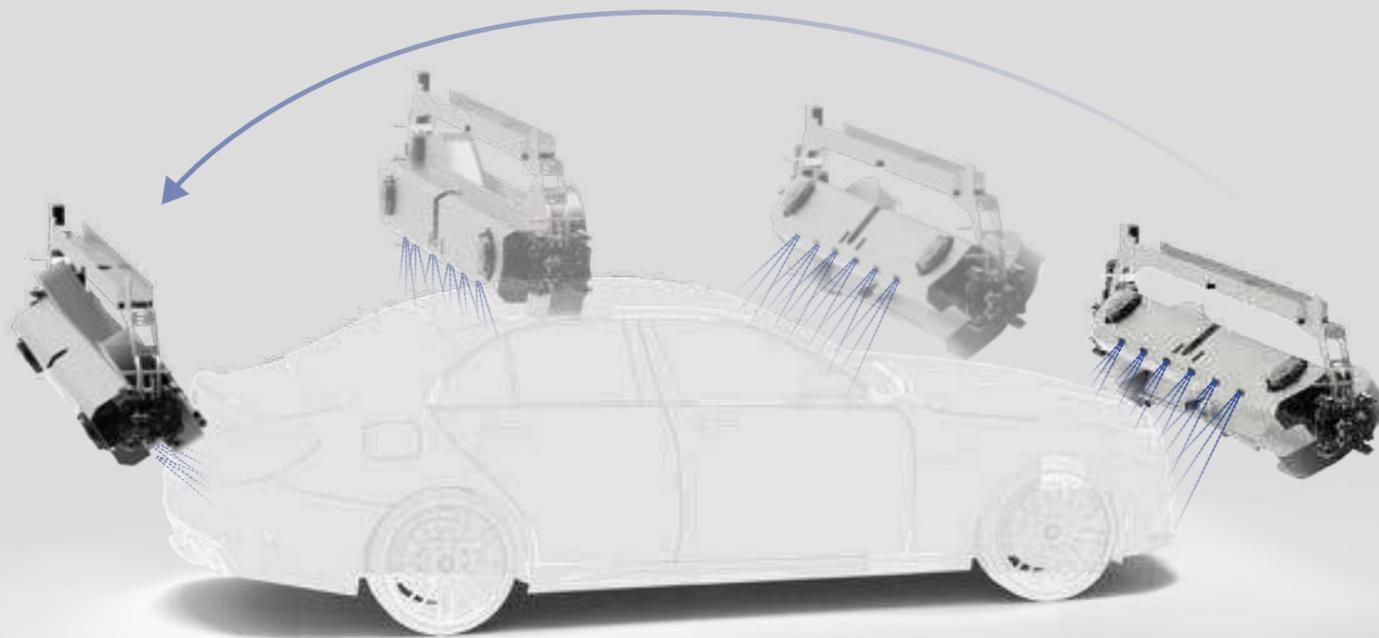
**\*Optional**

Medium pressure pump (Underbody wash)	(9 bar)
---------------------------------------	---------



- Made of stainless steel

# Touchless Washing



 The option for touchless washing to reduce wash time for vehicles with medium levels of dirt.



● Complete coverage for all car sizes.



# Operational Technology Features

Excellence in operational performance  
with our advanced technology features!

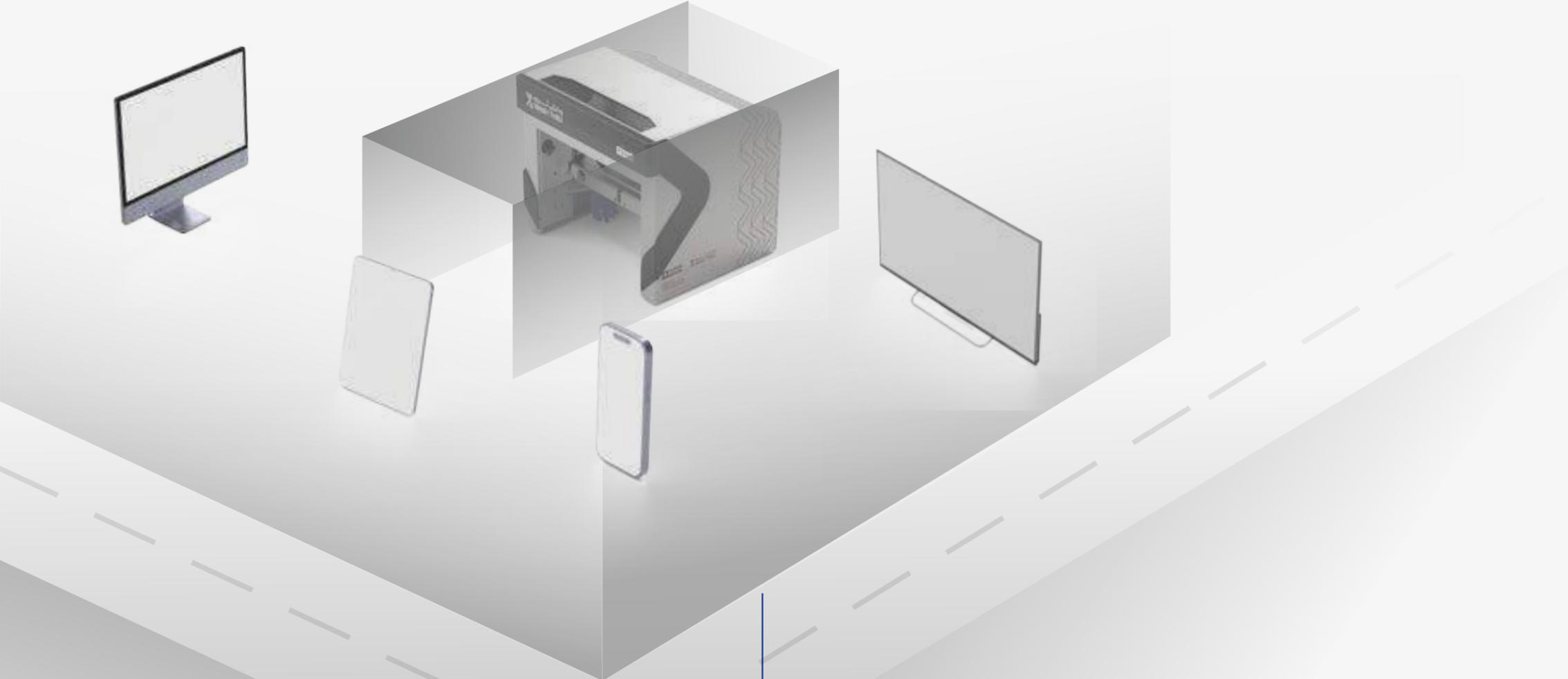
We combine efficiency and  
innovation.



# Separate pre-wash gate

⋮ Chemicals for pre-washing the body and edges are sprayed (6 nozzles) using a precise dosing pump.

🕒 This reduces the wash time by 1-2 minutes.



# Communication Screens

**Up to 6 screens can be connected:**

Ability to link screens for simultaneous content transmission or to play recorded content.





## Auto Tuning Technology

This technology allows the machine to automatically reset the adjustments after each wash without human intervention.

### Brushes

Operate with a high degree of safety for the car.



## Energy Meter (Optional)

The energy meter accurately calculates the device's electrical consumption.



## Water Flow Meter (Optional)

Magnetic water flow meter to measure water consumption.



## Smart Sensors

Smart sensors help in reading the dimensions of the car to achieve optimal performance, and provide the feature of reviewing cars, comparing their sizes, and pricing.



The Machine can identify the type of cars through smart sensors.





## Wireless Control WiFi

Ability to access the system from any electronic device (phone, tablet) on-site or remotely\* and control its features and settings.

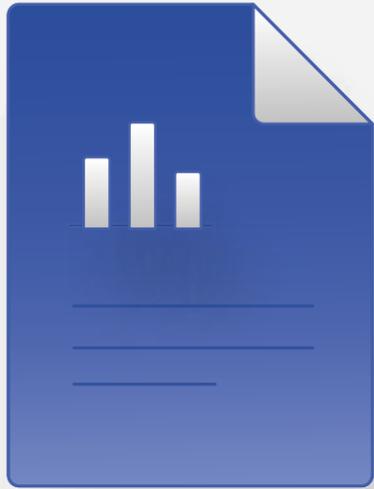
\* When subscribing to WashCloud services.

## Operating Interfaces Support Five Languages

- हिन्दी Hindi
- English
- Arabic
- বাংলা Bengali
- اُردُو Urdu

## Support for Monitoring/Control

Support for monitoring/control via local cable for locations where WiFi cannot be used.



## Vehicle Reports

Save all historical device information and view the number of cars, car entry times, car sizes, and the number of invoices issued by the system (if subscribed to the Kasour platform) - all wirelessly from anywhere within the device's WiFi network range.



## Customer Loyalty Programs

- Optional RFID reader for customer loyalty programs.
- Easy integration with point-of-sale systems (MADA, Visa, MasterCard).
- Option to add license plate recognition camera for customer loyalty programs.



## Driver mobile application

Full integration capability with the mobile application for achieving driver self-operation.

# Seamless integration with point-of-sale systems and smart gates.



Gate with camera

Self-Service Machine



All vehicle reports are sent to you

The Machine operates automatically after payment is completed

# Technical Maintenance Features

Our smart system works to keep devices running efficiently and automatically notifies you of any challenges you may face.

Ensuring performance continuity through our technical maintenance features.

# Smart Maintenance System (SM)

Fully integrating devices with company systems to enhance control, monitoring, and quality in maintenance operations, enabling:

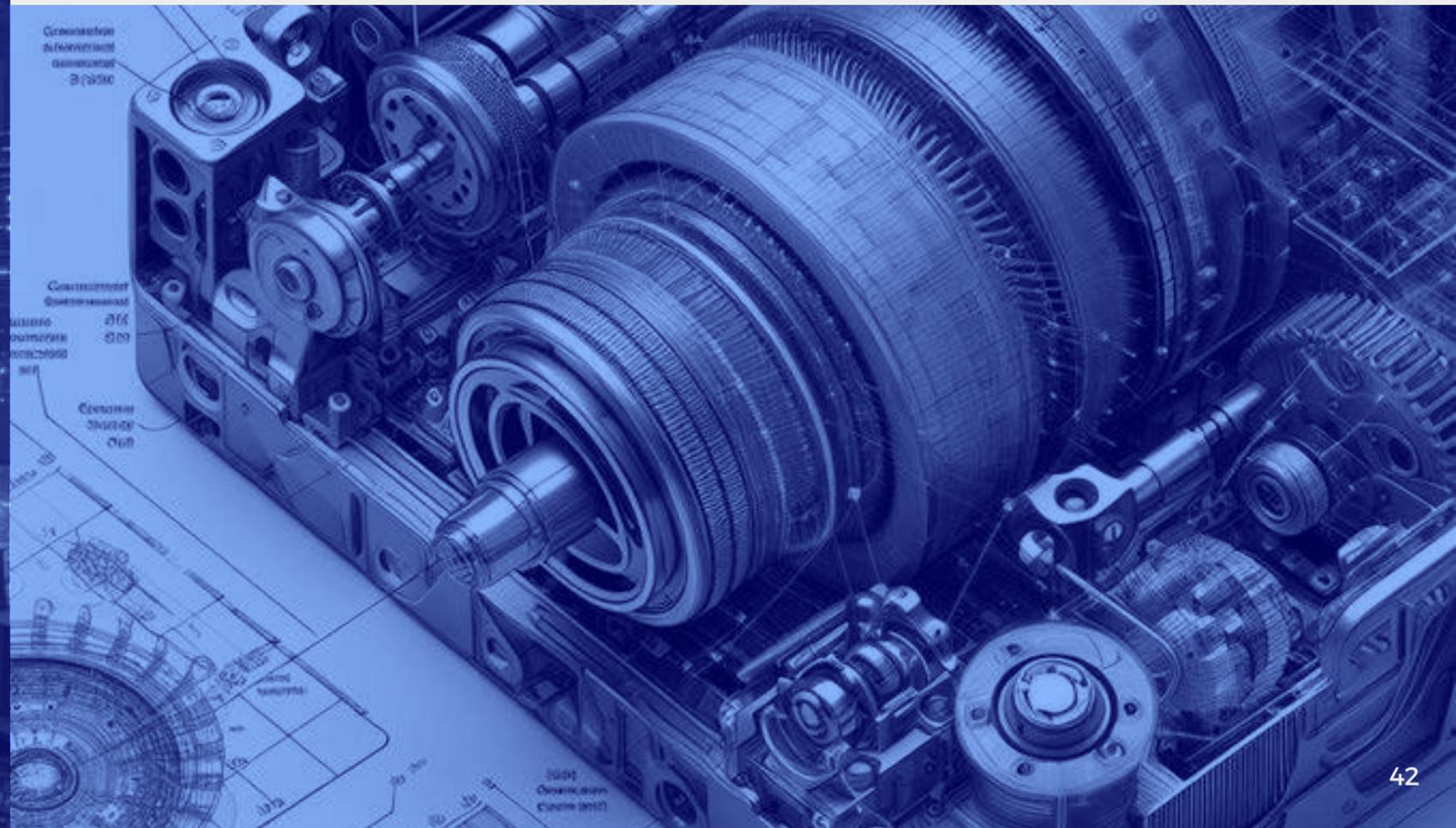
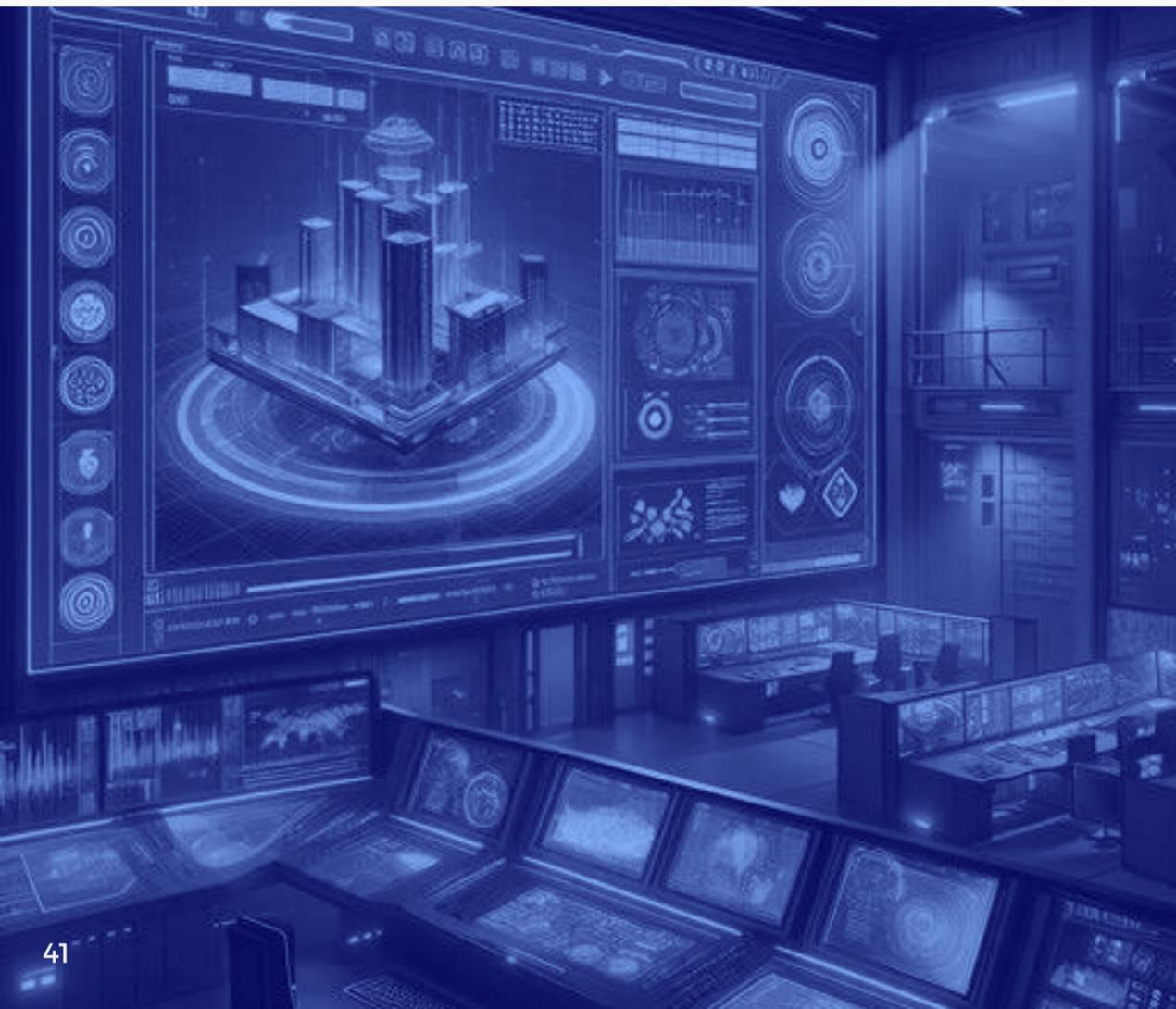
- Reviewing the historical status of all Machine components that have been replaced.
- Reviewing invoices for products and services.
- Accessing the record of previous and current maintenance tickets.
- Tracking maintenance requests.
- Reviewing and evaluating maintenance visits.

# The default lifespan calculator for consumable parts

It's an interface that displays the lifespan of consumable spare parts for devices and provides system alerts when their estimated lifespan is nearing completion. This allows customers to pre-order the parts and keep them on-site so they can be replaced at the appropriate time or requested for replacement by the maintenance team.

**The criteria for calculating the estimated lifespan of parts depend on:**

- Number of operational cycles
- Number of working hours
- Number of cycles
- Time
- Number of vehicles



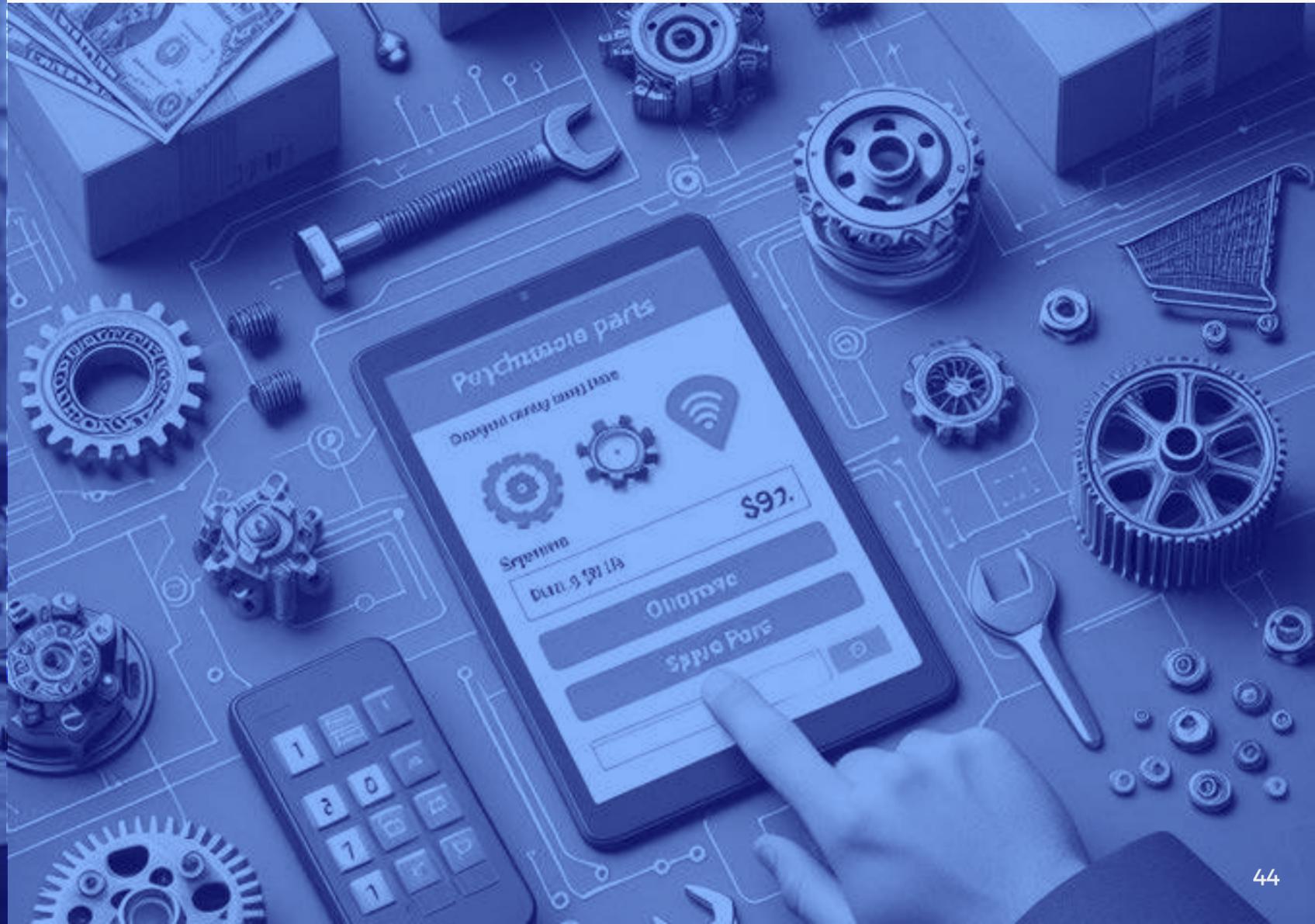
## Safety

Ensures the highest levels of safety by partially or completely stopping the Machine in case of any malfunction and immediately displaying all issues.



## Ability to purchase spare parts online (with ease)

The central system accesses the devices and suggests spare parts that need to be replaced in case of malfunctions or wear and tear. This service enables customers to review the parts and their alternatives and order them directly without the need to contact the company or search the website.



# WashCloud System



Stand out with our  
proprietary system



## Cloud storage

Cloud storage for machine data and reports

## Predictive maintenance technology (for non-consumable parts)

Our centralized system utilizes various artificial intelligence tools to analyze the performance metrics of non-consumable parts. It deduces their estimated lifespans based on historical records and other criteria such as geographic location, temperature, humidity, water salinity, and more. This enables maintenance personnel (remotely) to identify all parts that need replacement, significantly ensuring the continuous operation of the Machine.



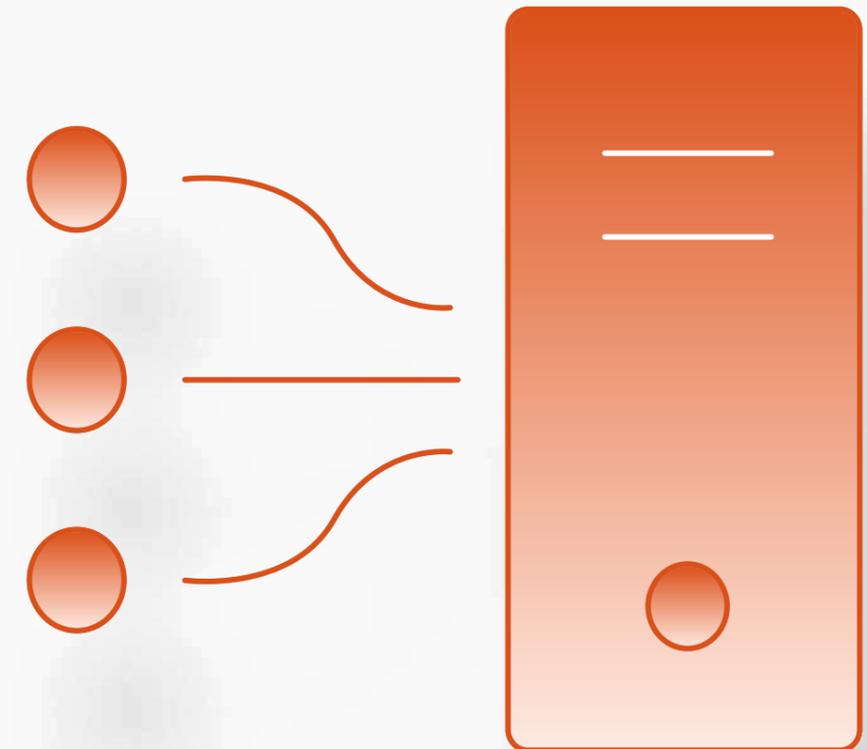


## Automatic Reporting

Where the WashCloud system can automatically report any faults that may occur on the Machine without the need to report the fault, and the maintenance team deals with the report according to the size of the problem.

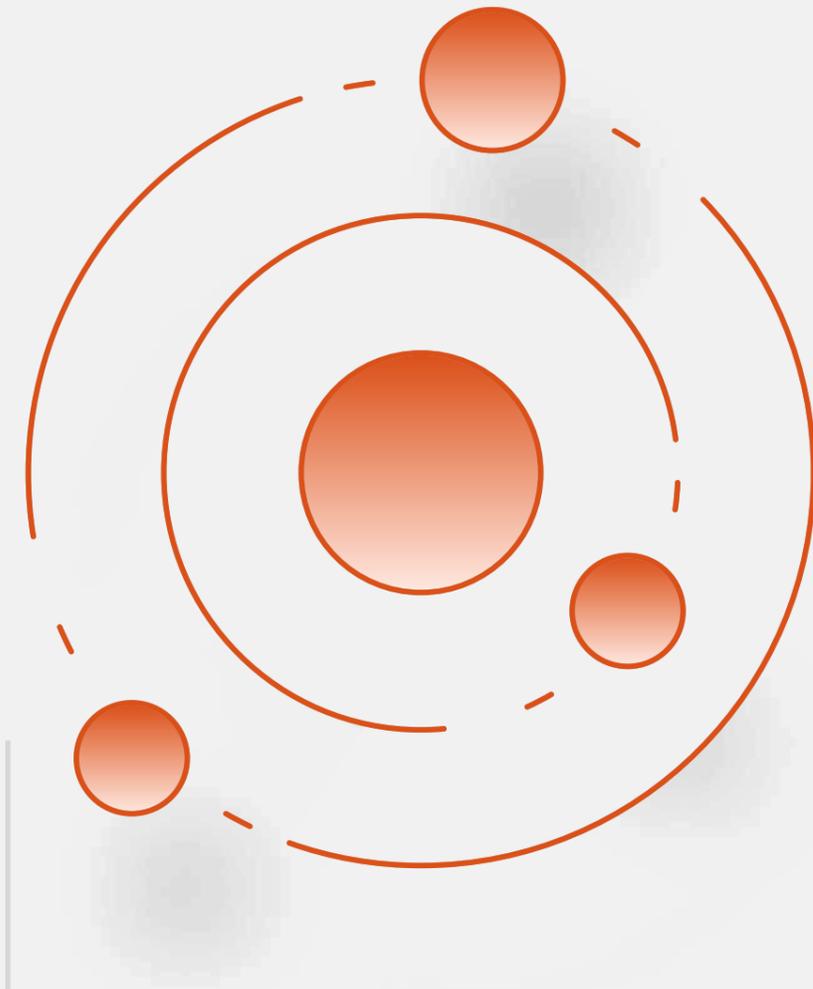
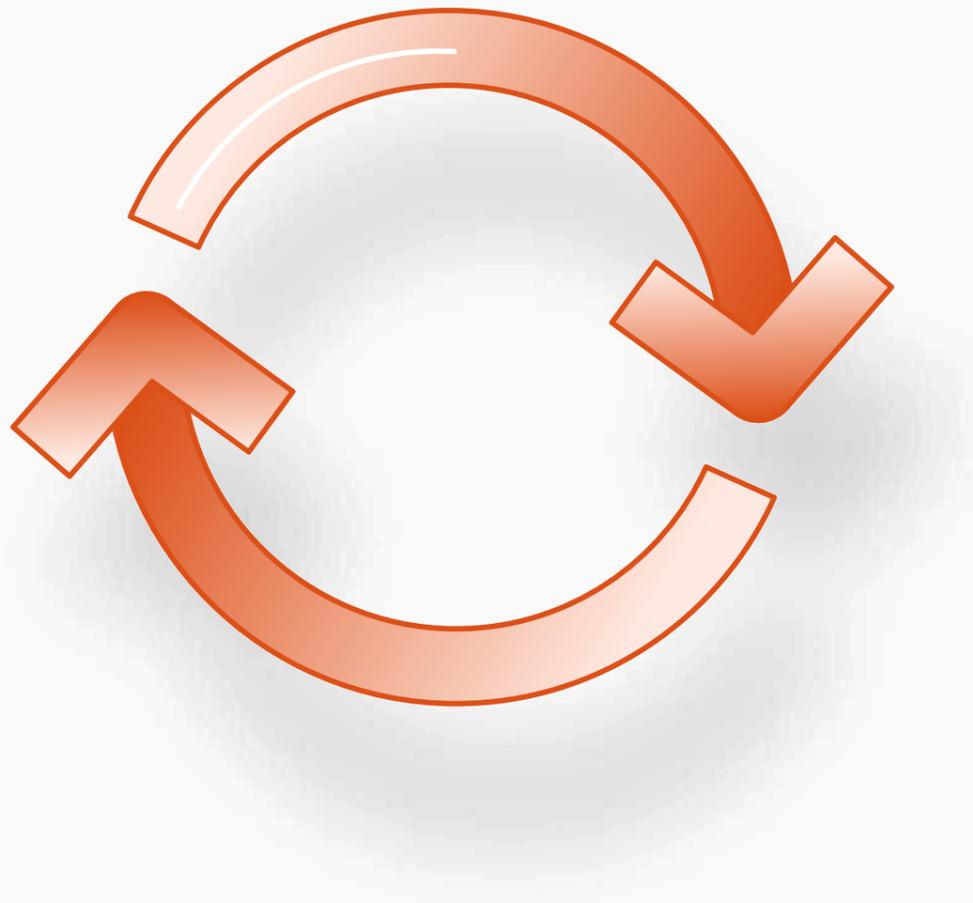
## Application Programming Interface (API)

And it's an additional service for customers who have their own software, applications, or ERP systems and want to integrate them with the Machine systems. We customize solutions according to the customers' needs for a nominal fee, without any additional devices required for this feature.



## Continuous Update

Continuous Update for Machine Control Systems to Enhance Security and Improve Quality

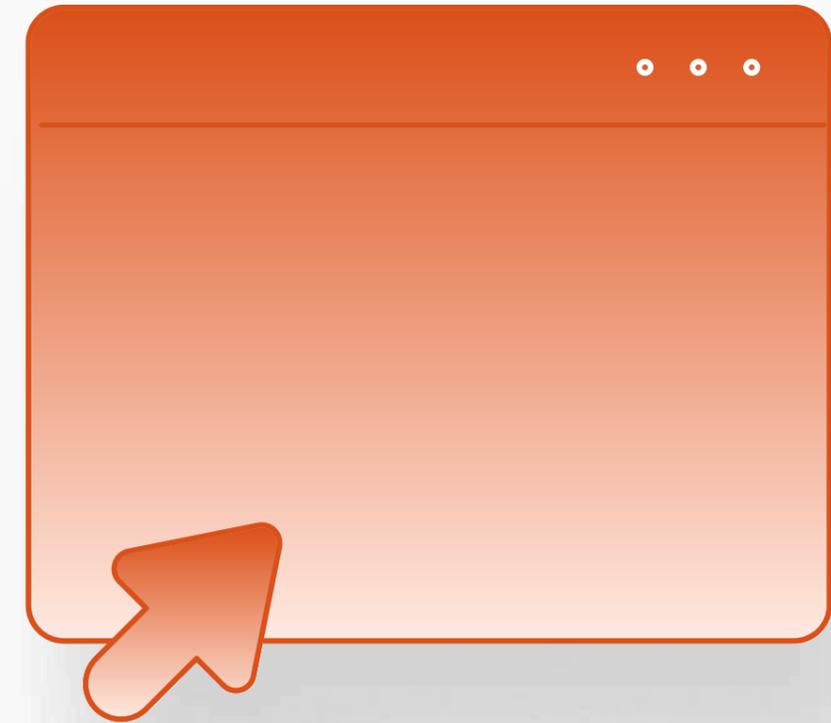
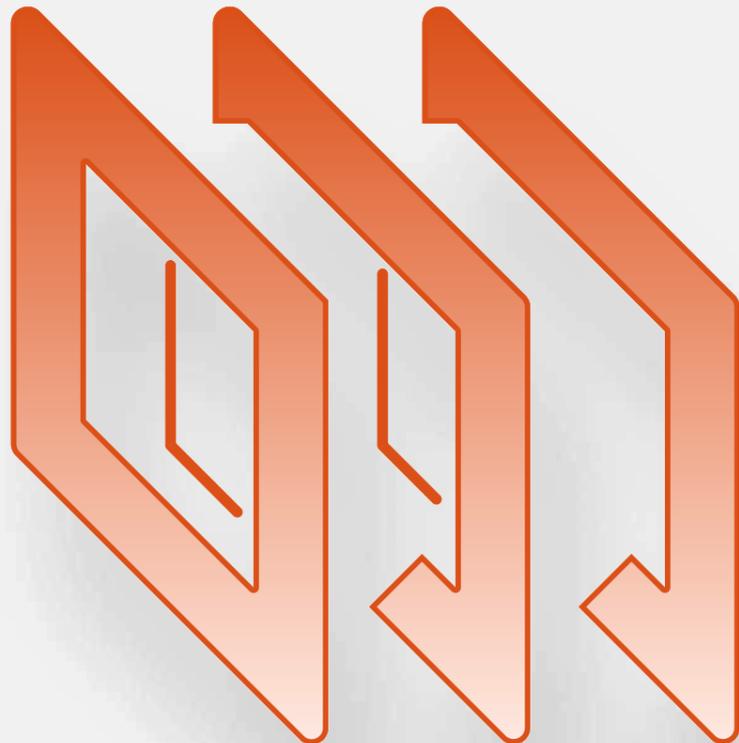


## Automated Assistant System

And it's an extremely intelligent system that operates when there are any issues not directly recognized, presenting potential causes within seconds. This enables users to understand the reasons for malfunctions without the need to visit the site.

## Reviewing troubleshooting solutions.

When human intervention is needed for repairs, this system provides solutions through visual clips. This enables technicians or operators to identify the required spare parts and access the optimal repair method.



## Automatic Alerts

Receiving customized SMS alerts, especially when there is a malfunction or when a component is nearing the end of its lifespan.

## Remote control

The ability to access the Machine system remotely, enabling users to access a range of basic and advanced features using any electronic device (such as a smartphone or tablet) from anywhere in the world and at any time, while maintaining the highest security standards without being physically present at the device location.

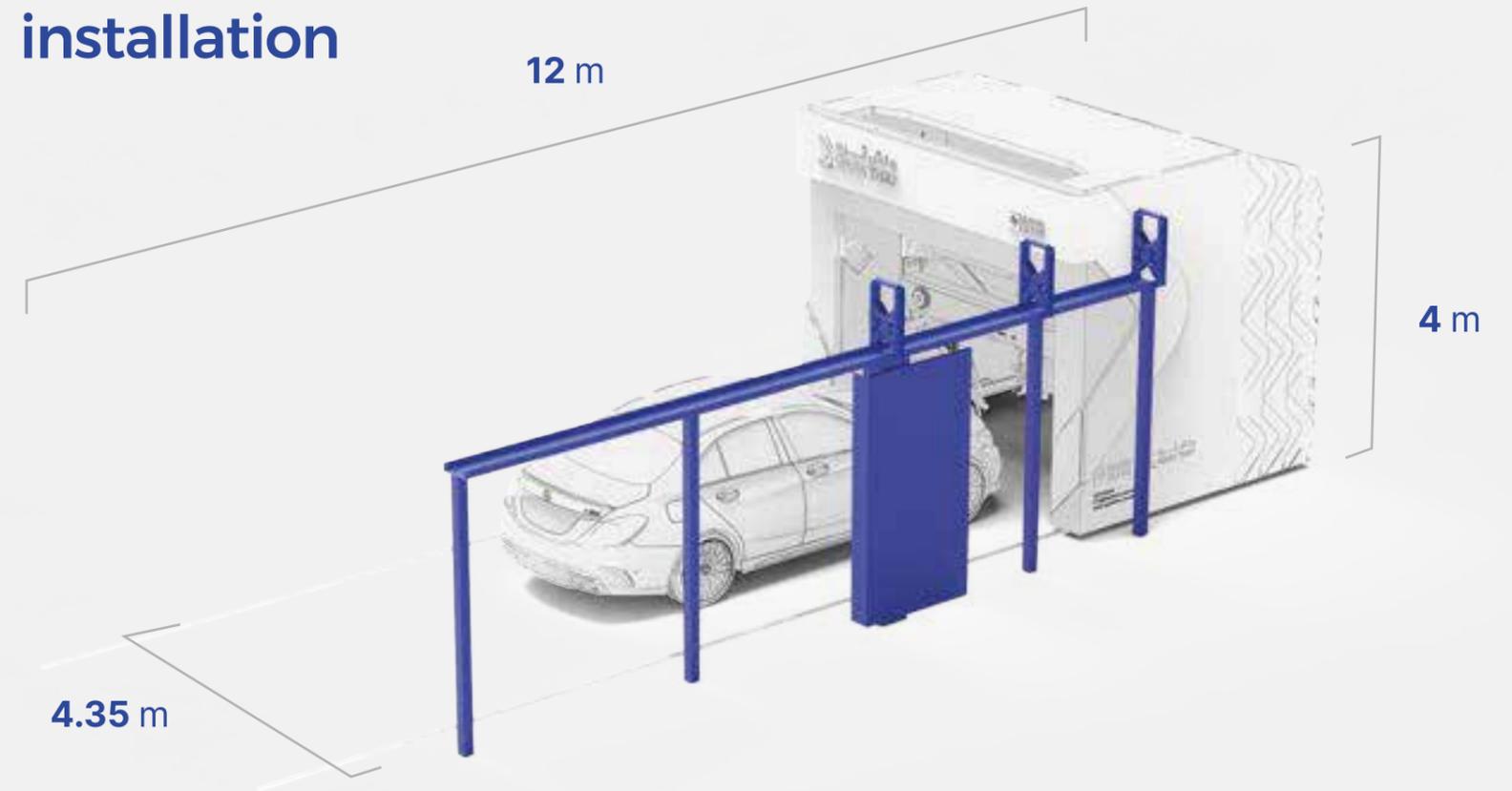


# Site dimensions and foundation types



For more details, watch the video - (Scan the barcode)  
Or [click here](#).

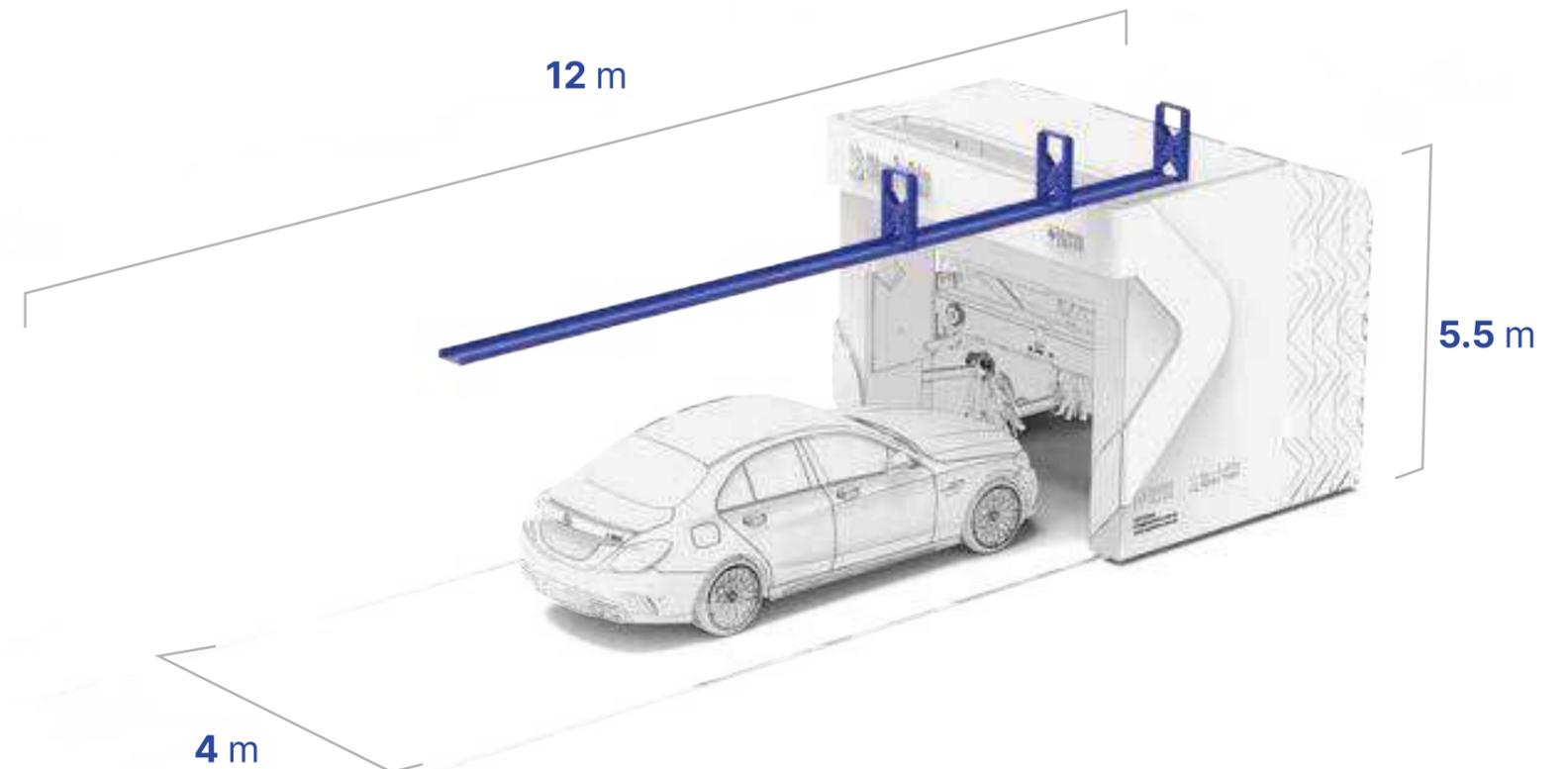
## Ground installation



## Suspended installation



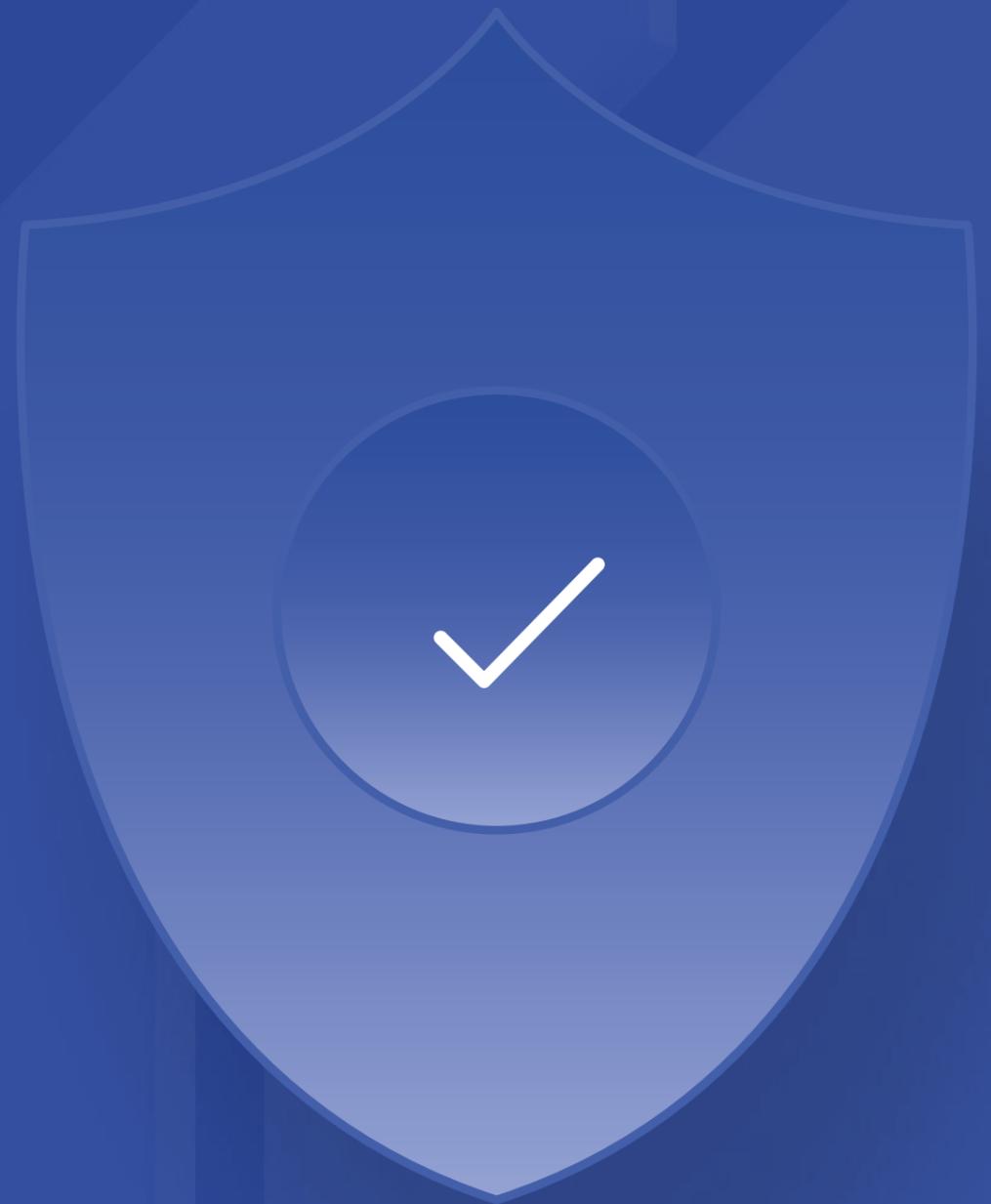
## Upper installation



# Safety Specifications

Our Machine features advanced technologies to maintain the highest safety and security standards.

- ✓ Pressure sensors for dry operation protection (digital and analog).
- ✓ Safety system for communication in case of backup failure via (SMS-WIFI-Cable).
- ✓ Overcurrent and undercurrent protection system.
- ✓ Monthly reports on replaceable parts, and it sends requests for the replacement of consumable parts.
- ✓ Stage sequence sensor for continuous safety in each stage.
- ✓ Dual protection system for top drying (Infrared sensors + Ultrasonic wave sensors) - for ultimate protection.
- ✓ A VPN-enabled routing device to achieve the highest levels of security for remote access to the machine using any electronic device (mobile or tablet) without being present at the machine's location.
- ✓ The protection system operates at each stage of the washing process.
- ✓ Continuous sensor design for all motion devices (open/close/lift/lower).



# Success Partners





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