واش ثـــرو
WASH THRU®

# STR-V1

## Touchless




Version EN 1.0

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Designed By:

ميكـاتـرونكـس
Mechatronics

واش ثرو
WASHTHRU®

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

# Content


Car wash stages ..... 3
Touchless Machine ..... 9
Machine information ..... 11
External structure information ..... 13
Dryer information ..... 15
Pumps information ..... 17
Touchless washing feature ..... 19
Features of operational technologies ..... 21
Technical maintenance features ..... 23
WashCloud system ..... 39
Site sizes ..... 45
Safety specifications ..... 57
Success partners ..... 59

# Washing stages

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



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# Washing stages

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## 1

### Initial wash

The car is sprayed with low-pressure water and dedicated chemicals to remove dirt and clinging deposit.

## 2

*Optional

### Underbody wash *

A dedicated stage for cleaning the underside of the car and hard-to-reach areas beneath the chassis.

## 3

### High-pressure wash

The car is sprayed with high-pressure water for washing from the front, rear, top and sides, with a focus on removing stubborn dirt.

## 4

### Spray foam

Special cleaning foam is sprayed to enhance the washing process and effectively remove dirt.










# Washing stages

## 5

### Initial rinse

The car is given an initial rinse to remove any remaining residues (if present).

## 6

### Final rinse with wax spray

An additional rinsing stage that includes spraying optional polishing agents (which may come from a different water source).

## 7

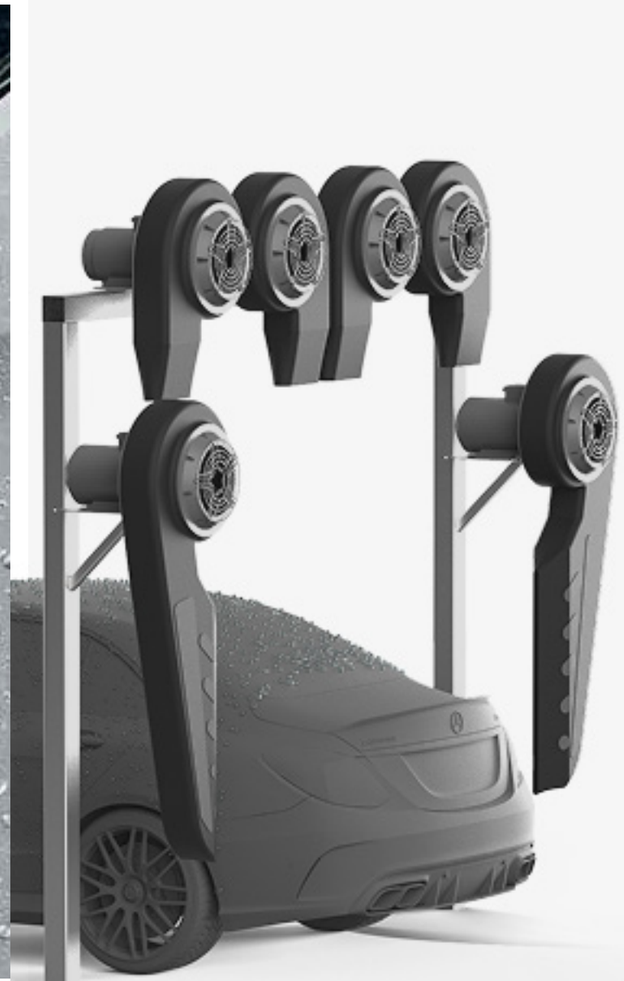
### Drying

Vehicles are dried efficiently using an advanced system that covers the front, rear, top, and sides.










# Touchless Machine

**Model number: STR-V1**

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

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## Water Consumption

Water consumption ranges from 230 liters per car. with an overhead tank of 3–5 tons capacity.

## Material Consumption

Shampoo: 160 - 120 ml / car
Wax: 13 ml / car
Pre-wash detergent: 40–50 ml / car

## Electricity

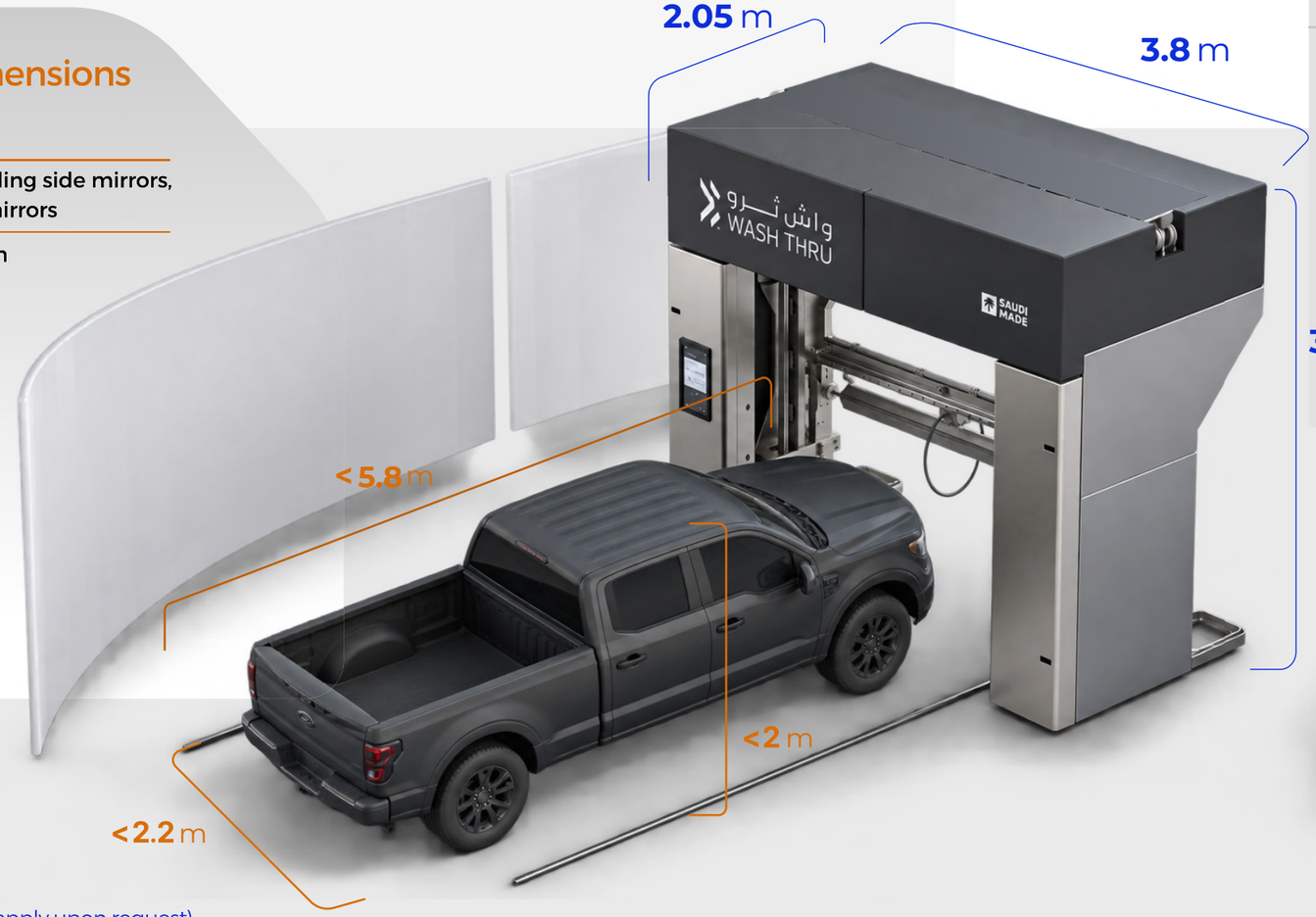
(380 volts - 60 Hz - 100 A) with a maximum power of **45** kW and a consumption of **0.70** kWh per car.

## Vehicle Dimensions

Height: 2 m

Width: 2.2 m including side mirrors, 2m without side mirrors

Length: up to 5.8 m




- Weight: 1,300 kg
- Capable of washing cars up to 5.8 meters in length. (for a 10 m-long wash bay).
- The touchless washing feature provides high efficiency for vehicles with a moderate level of dirt.
- 32 MEG nozzles (stainless steel) for high-pressure washing.
- **14** foam nozzles (stainless steel) for medium-pressure washing, and **20** foam nozzles (stainless steel) for washing the lower chassis. * **(Optional)**
- Ability to add a separate washing bay as an option, according to customer preference. * **(Optional)**

The touchless washing feature (high pressure) can be added.

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

**3-4** Minutes

According to the length of the car.

Optional (additional charges apply upon request)

# Exterior Structure Information

Technical Information

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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.

**Screen**
To display the washing steps and control the machine.

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

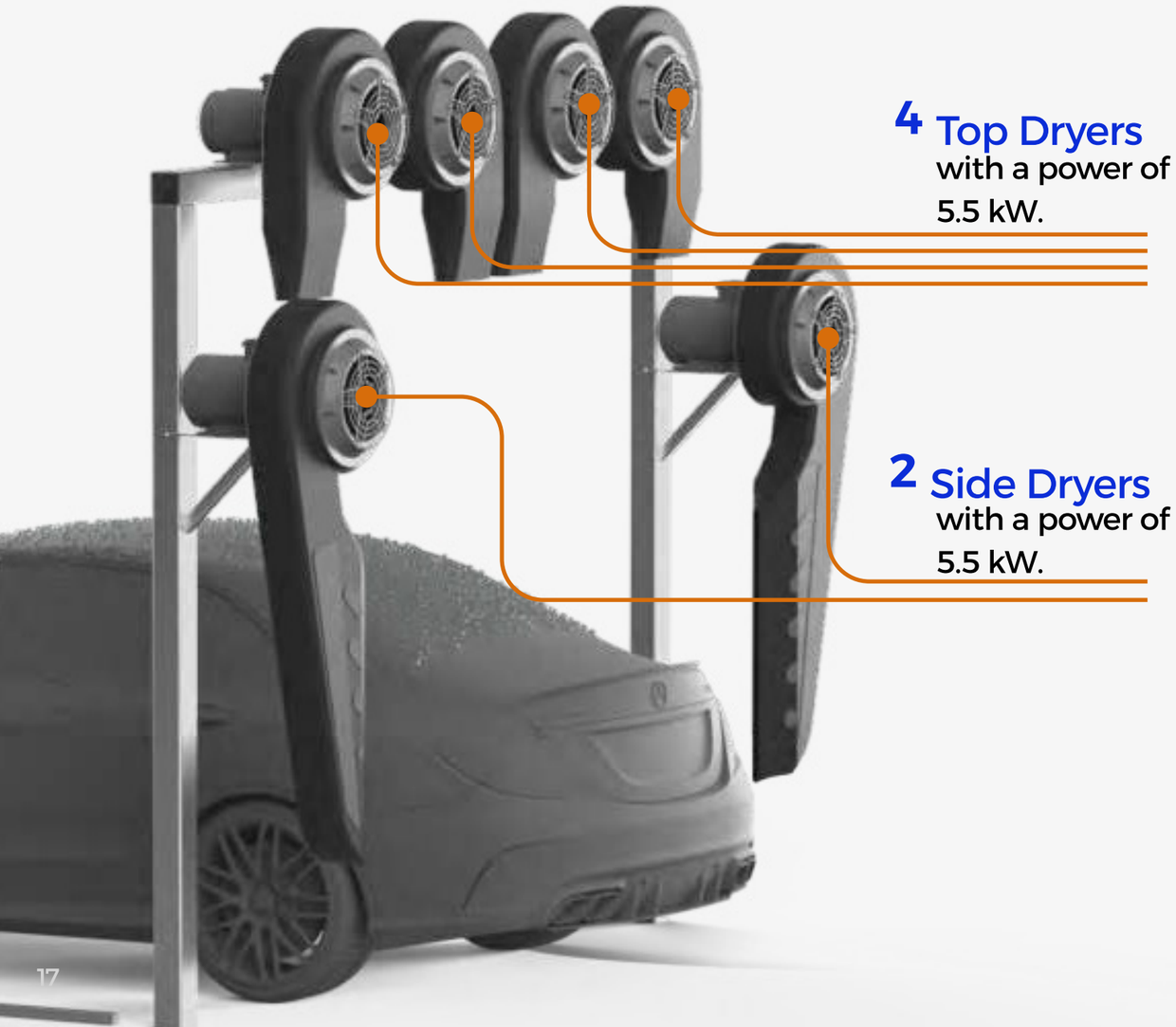
**Internal structure**
made of hot-dip galvanized steel, which is rust-resistant.



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

**6** Powerful dryers cover all sides of the car, ensuring perfect and fast drying from every angle



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

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

## Dryers mounted on the machine and moving with it

- 6 dryers primary (4 top + 2 side) with 5.5 kW per dryer.




Optional (additional charges apply upon request)

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

3 primary pumps with different pressure levels, with an optional fourth pump for washing the lower chassis.

# Pumps *4-3

*Optional

| | |
|---|---|
| Low-pressure pump | (4Bar) |
| Medium-pressure pump | (9Bar) |
| High-pressure pump (for touchless washing feature) | (25Bar) |

***Optional**

| | |
|---|---|
| Medium pressure pump | (9Bar) |



Basic



Optional

Optional (additional charges apply upon request)

# Touchless Washing




touchless washing is available to reduce washing time for vehicles with a moderate level of dirt

- Full coverage for all car sizes

# Operational Technology Features

Excellence in operational performance with our advanced technology features!

We combine efficiency and innovation.





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# 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.






# Wireless * Control WiFi

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

***Optional**

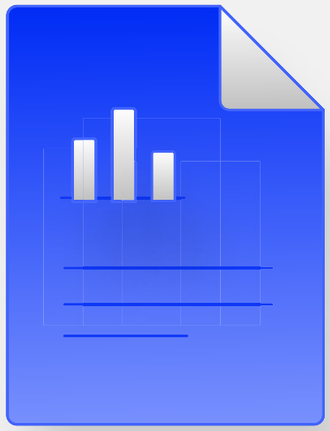
* When subscribing to WashCloud services.

# 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.



*Optional

## 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.

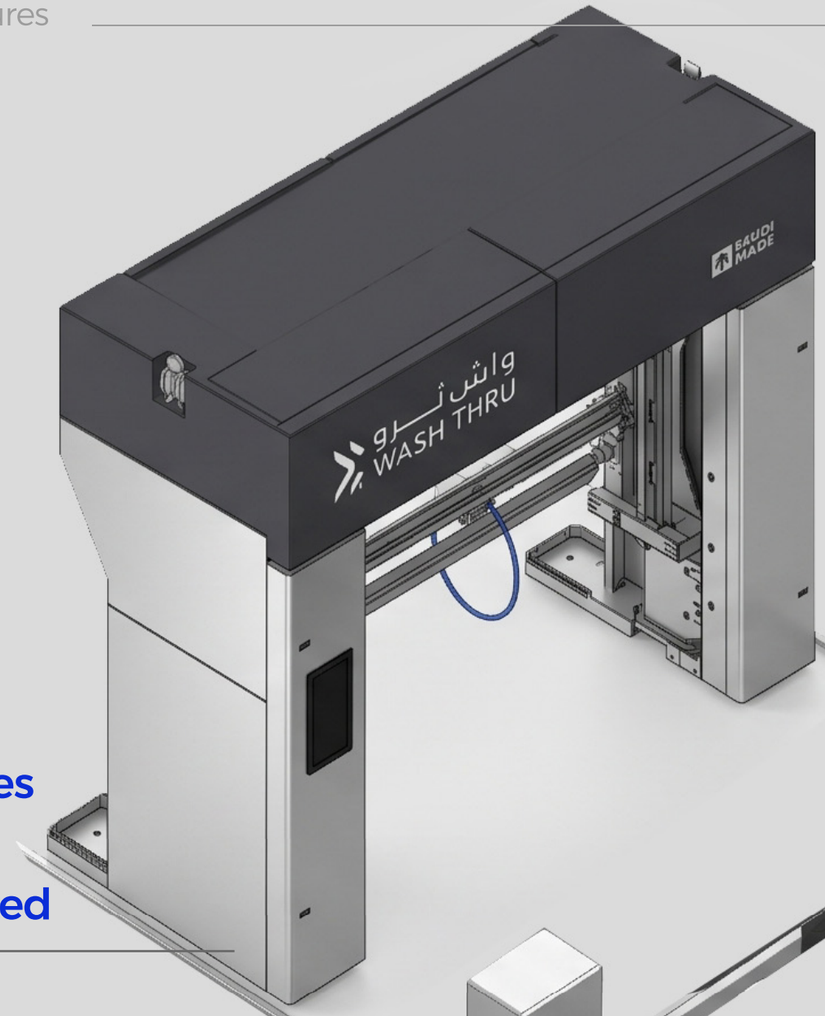
# Seamless integration with point-of-sale systems and smart gates.

The Machine operates automatically after payment is completed

Gate with camera

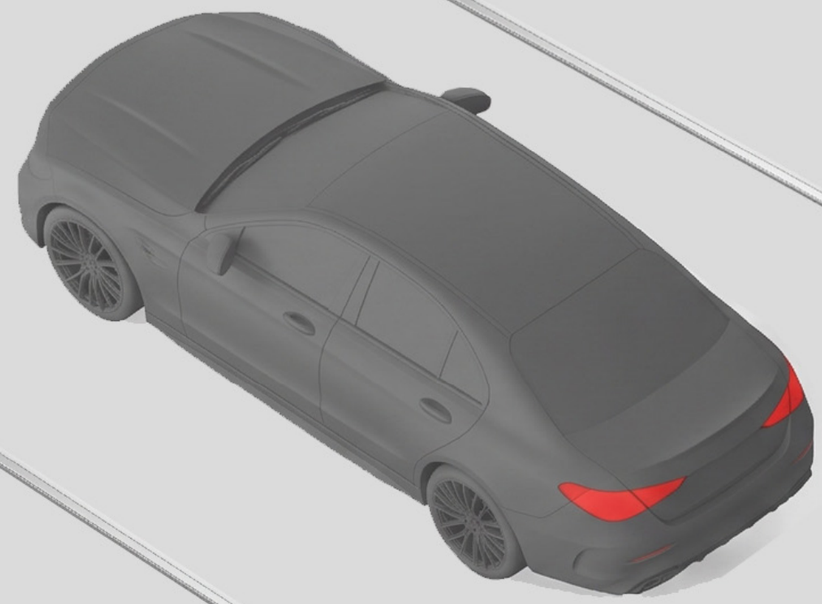
Self-Service Machine

All vehicle reports are sent to you







# 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.





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# 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.

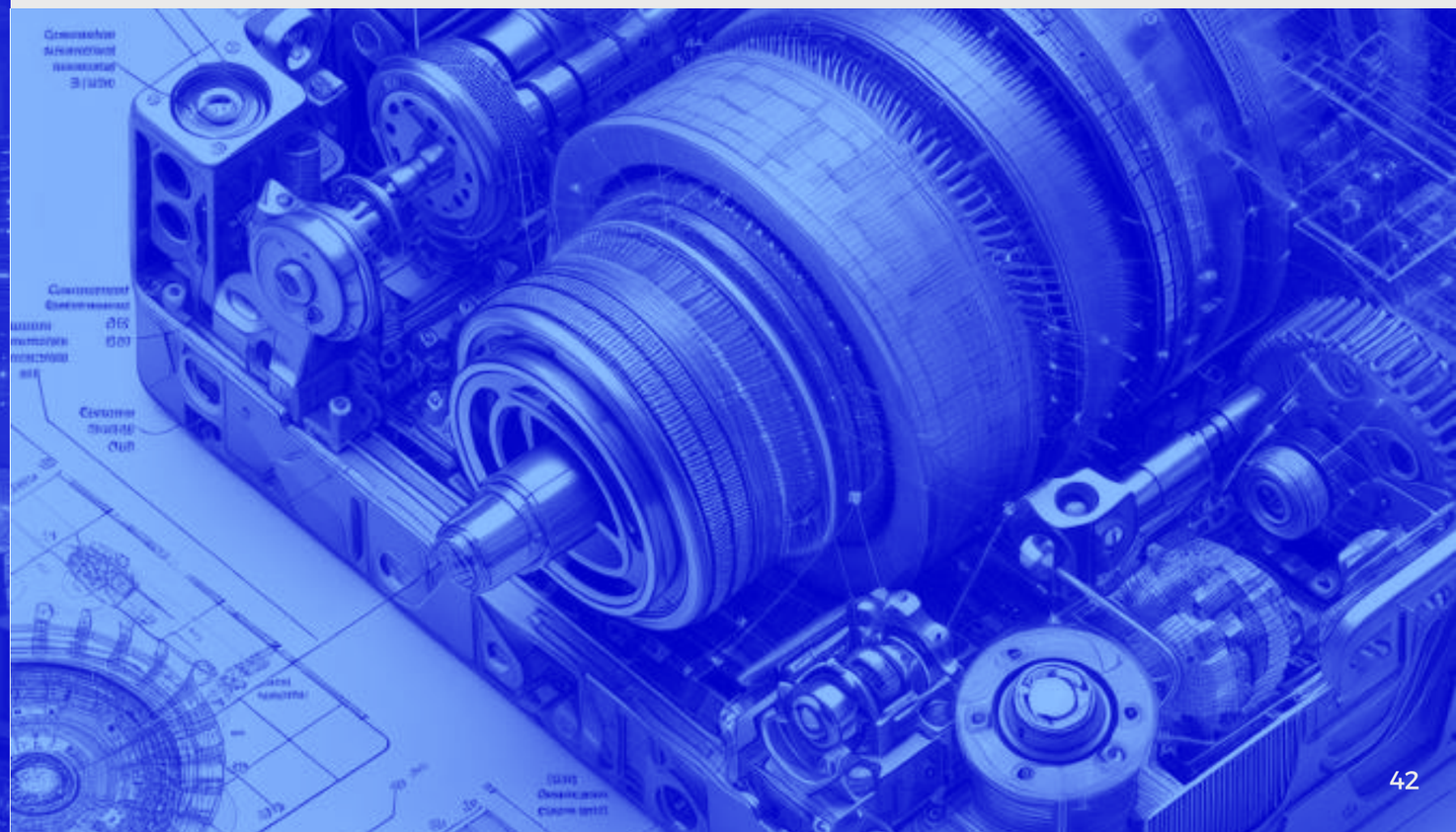


# The default lifespan calculator for consumable parts

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 **failures**. 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





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# 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.



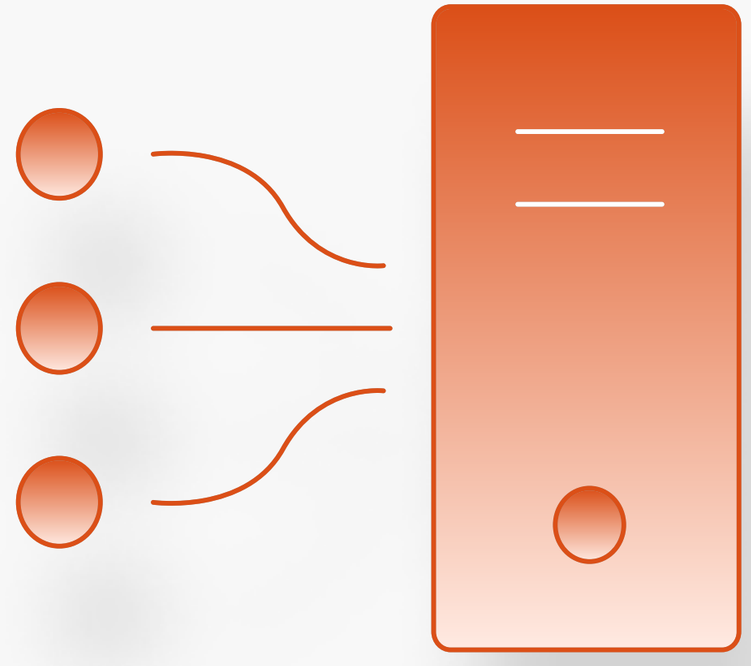


## Automatic Reporting

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)

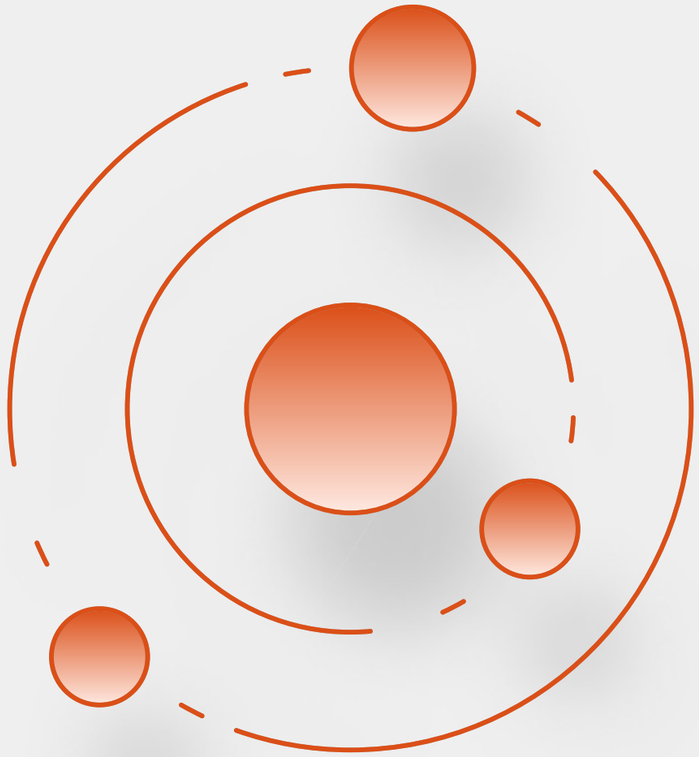
And it's an additional service for customers who have their own software, applications, or ERP systems and want to integrate them with the Machine systems. We customize solutions according to the customers' needs for a nominal fee, without any additional devices required for this feature.



# Continuous Update

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



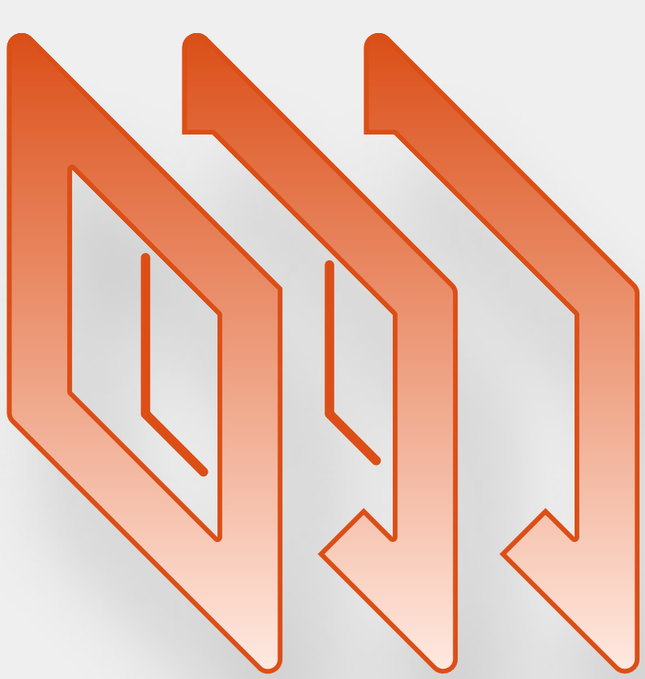


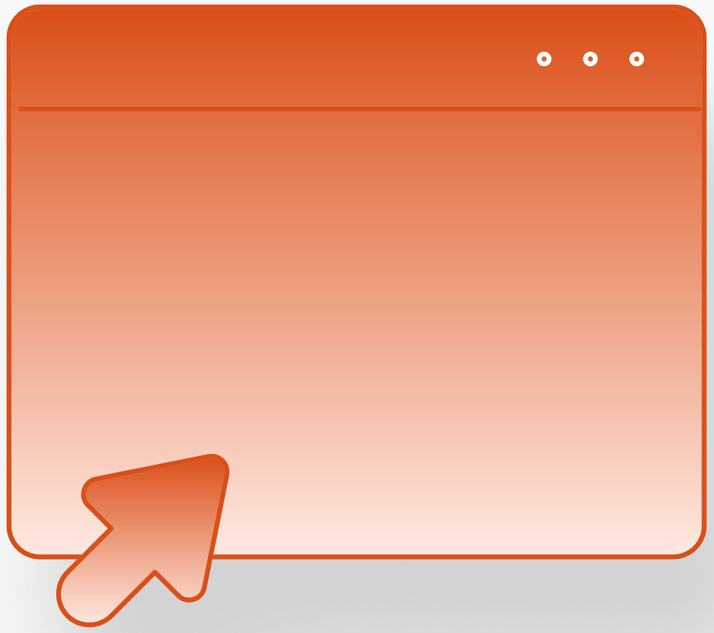
# Automated Assistant System

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.

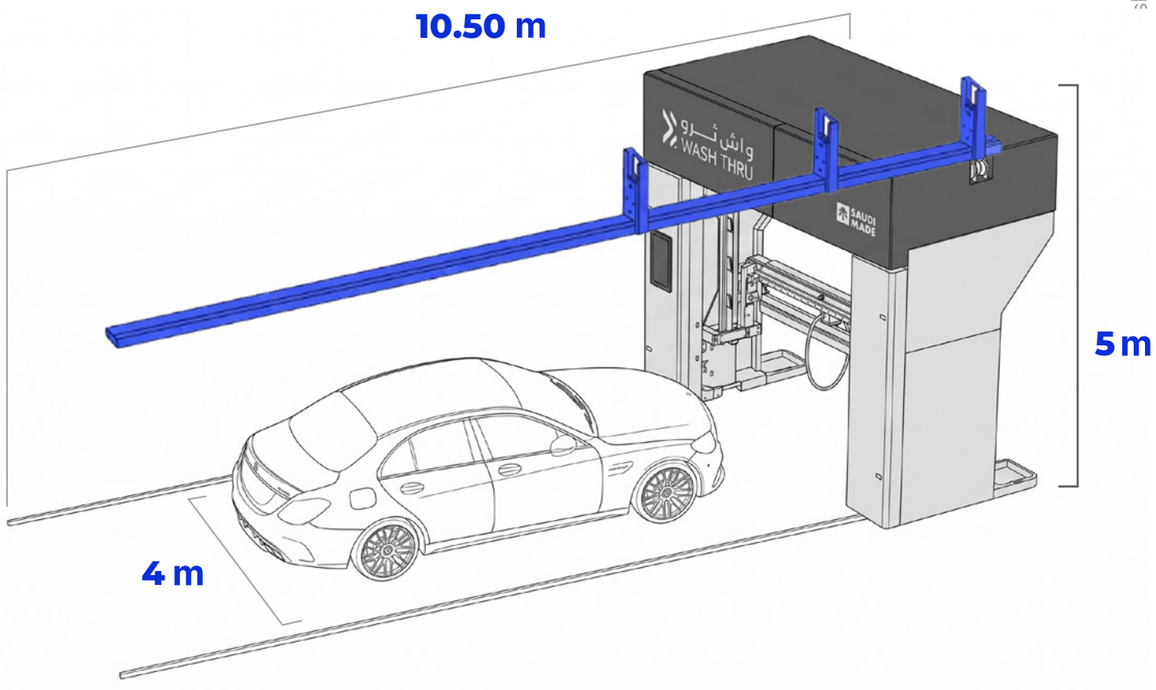


# Site dimensions

## and foundation types

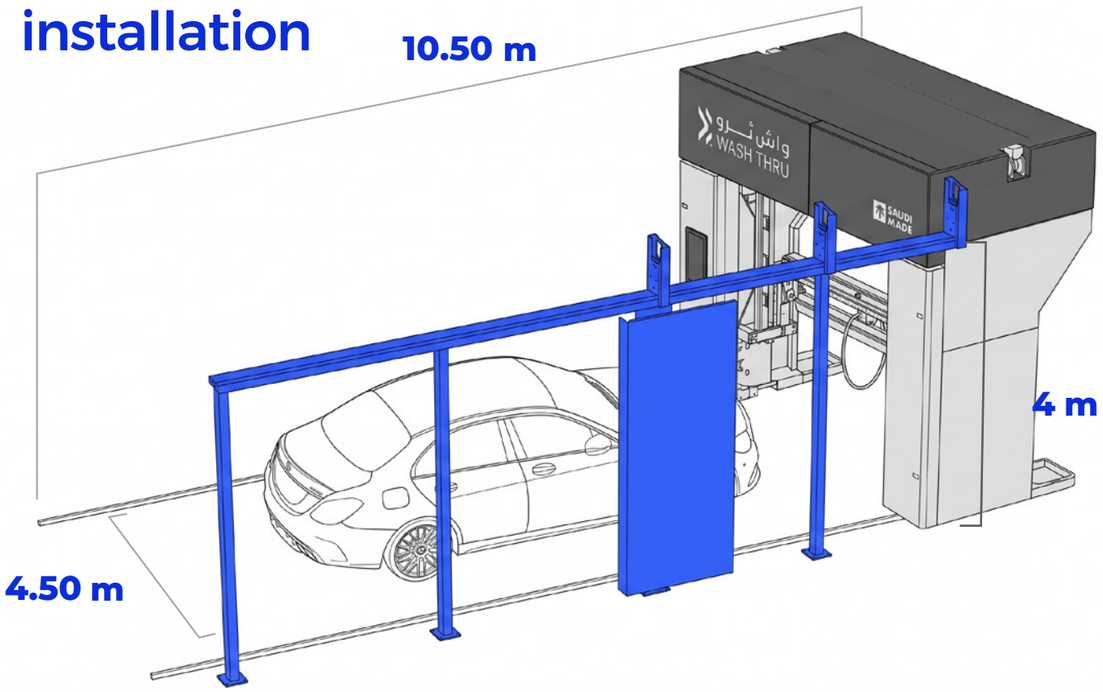
For more details, watch the video - (Scan the barcode) Or click here.

## Wall mounting

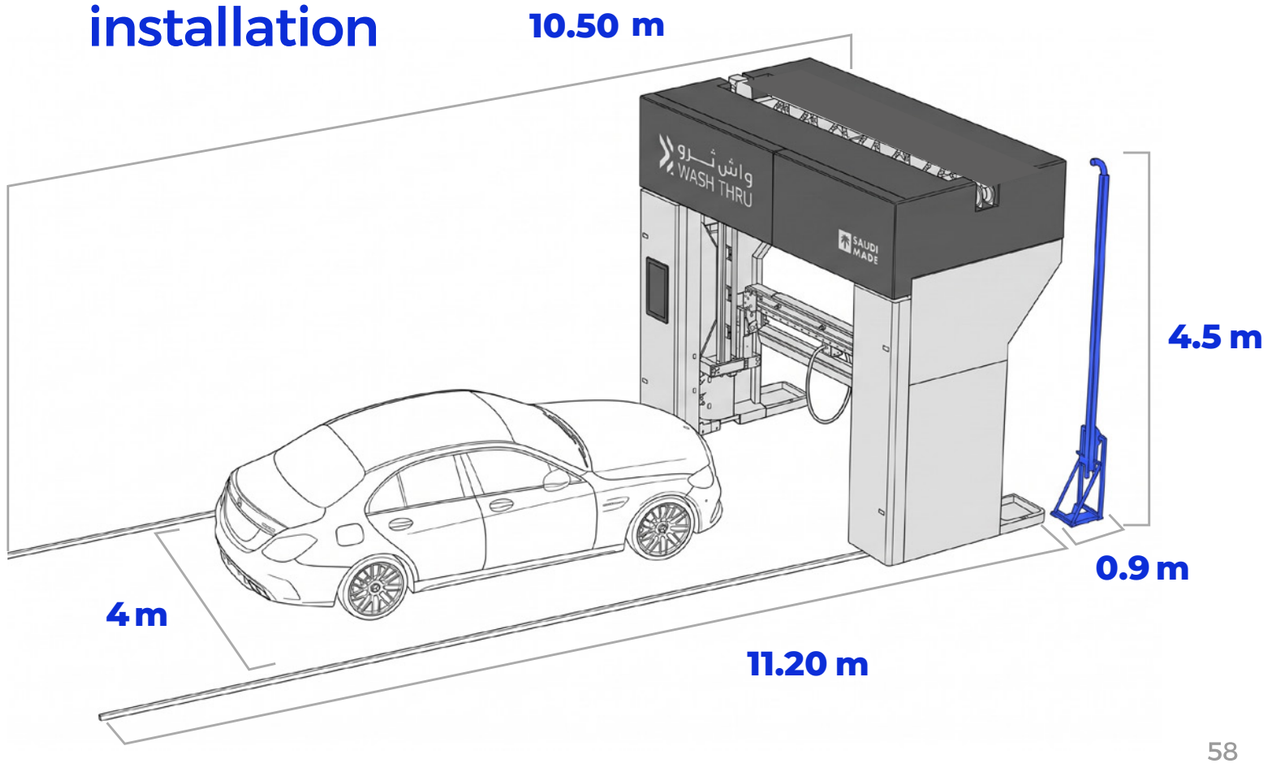



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## Ground installation




## Suspended installation



# Safety Specifications

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



- Safety system for communication in case of backup failure via (SMS-WIFI-Cable).
- Monthly reports on replaceable parts, and it sends requests for the replacement of consumable parts.
- Stage sequence sensor for continuous safety in each stage.
- 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 (forward/backward movement).





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# Success Partners

FAST car wash

DOUBLE Q دبل كيـــو

مغاسل رغوة الآلية AUTO FOAM CAR WASH

WASH WAY واش واي

W3 الغسيل الثلاثي

The Tunnel

هيف مغاسل سيارات أوتوماتيكية

express Auto Wash

إكستوكير extocare

CAR WASH مغسلة روز السعودية

WASH LINE واش لايـن

ROUNAQ

WASH PASS واش باس

الوبل AL WABL

درة للعناية بالسيارات

الماسة

كلين باودر CLEAN PAWDER

03 THREE MINUTES FOR CAR WASH

KING CAR كنج كار

LOCATION CAR WASH

FILTER فلتر

مغسلة كاركافيز

BARRAQ CAR WASH

CLEANSPOT

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HASLAH غسله

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