

Langlebig

Robust

Wartungsfreundlich

FRANK®



frank-hdr.de

# Self-Service Wash Stations

The solution for the professional and gentle care of vehicles



FRANK®

*sb wash*

The functionality and efficiency of **FRANK** Self-Service Wash Stations fulfil all requirements of operators and users. Notable features are high profitability, low operating costs and remarkable user-friendliness.

# Self-Service Wash Stations

Consulting, planning, execution, turn-key delivery, service

Subassembly technique, fully developed electronic controls and corrosion-proof materials guarantee trouble-free operation and a long working life. The available programs are adapted to the optimum cleaning and preservation of vehicles with particular care taken to protect the vehicle surface. The fully automatic frost protection system means you can count on a profitable source of income throughout the year.



**FRANK** Self-Service Wash Station with multiple wash bays and mechanical room. Example above includes: 4 wash bays, 1 outside wash bay and the following essential components:

#### **Mechanical room** equipped with

- ▶ Self-Service Module - 1 unit per wash bay
- ▶ Hot water generator
- ▶ Water softener
- ▶ Reverse osmosis plant
- ▶ Frost protection pump station

#### **Wash bays** equipped with

- ▶ Swivelling boom, 360° rotation, for wall, ceiling or pillar brush lancemounting, separate for spray lance and brush lance
- ▶ Spray lance with lance holder
- ▶ Brush lance with lance holder
- ▶ Operating cabinet with safe

Technical components are thoughtfully arranged, facilitating easy access for refilling the tanks and for pump oil changes.

Self-Service Wash Stations have many faces – but their “heart” is more and more often **FRANK**



# Wash Bay Equipment

We listen to your wishes!

► **FRANK Swivelling boom**

consisting of:

Hot galvanized boom, rotating by 360°, with rotary coupling and strain relief spring

► **FRANK Spray appliance**

consisting of:

Mechanical spray gun with bypass for frost protection as well as spray lance with special ceramic nozzle and nozzle protection

► **FRANK Self-Service Wash lance with brush**

consisting of:

Spray lance with bypass for frost protection,

Wash lance with soft hair brush

Foam injector as well as swivel joint

► **FRANK Lance holder with support**

consisting of:

Stainless steel holder for spray appliance

► **FRANK Foam lance holder with support**

consisting of:

Stainless steel drip collector for brush



► Stainless steel pillar with illuminated operator logo/name

► Operating options: electronic coin checker and/or chip card reader

► Coin checker and chip card reader are protected against weather by transparent flip-up covers

► Emergency ON-OFF Switch

► Weather-proof, piezo-lit program buttons

► Integrated safe

► Stainless steel door for access to the safe

► Stainless steel side parts

Innovatively designed operating cabinet with integrated safe:  
State-of-the-art design in brushed stainless steel



# Washing programs

adapted for the optimal care of vehicles

Maximum

7 Programs

NEW

2

additional  
programs for  
your customers

-Cleaning of  
alloy wheels  
-Drying

1



## Cleaning

High pressure and detergents remove dirt.  
Distance of nozzle approx. 30 cm.

2



## Foam Brush

Use brush lance.  
Remove tough dirt.  
Use clean brush!

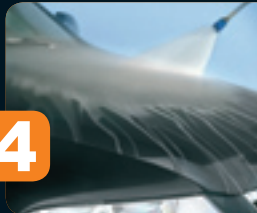
3



## Rinsing

Toughest and most tenacious dirt  
Use clean brush!

4



## Hot Wax

Remove detergent thoroughly.  
Distance of nozzle approx. 30-50 cm.

5



## Rinsing

Long-lasting protection of paint.  
Subsequently rinse with spray polish to intensify.  
Distance of nozzle approx. 50 cm.

NEW

6



## Spray Polish

Lime-free water and spray polish prevent streaking.  
Antistatic means longer intervals between cleaning.  
Distance of nozzle approx. 50 cm.

# Create a win-win situation!

## Coin changing machine and remote control cabinet



### ► Coin changing machine

A safe housing made of 3 mm steel plate and an extremely solid stainless steel door to be opened from back only provide optimal anti-theft protection. The coin changing machine accepts bills and coins which are changed into tokens or different coins. A receipt can be printed which is especially important for business clients. All transaction records and statistics of the last 3 months can be printed by the operator.

### ► Accessories for the coin changing machines:

- **Remote alarm set:** In case of failure a message is forwarded to a mobile phone. In case of smaller malfunctions a reset can be activated via the mobile phone. Most of the malfunctions will be solved then.
- **Data communication set:** Statistics can be stored on a chip card and thus transferred to a PC.
- **Charging unit:** Empty customer cards can be recharged in the coin changing machine.
- **Debiting set:** Writing and reading unit to be installed into the remote control of the wash bays or into vacuum cleaners.



### ► Wash time determined by coin values and/or chip card discharging, electronic metering

The operator can choose the desired wash time using coins or a chip card. The digital display indicates the discharged values.

### ► Electronic coin checker

for coins of different currencies,  
e.g. Euro and tokens

### ► Chip card reader

with discharging steps  
e.g. 0,50 € per keypress

### ► Display showing time/ leftover time

e.g. 2 minutes after coin insertion  
2 x 0,50 € or 1 € or discharging  
of chipcard 2 x keypress



## Alternative Roof System



The roof system offered by us is a patented system which is resistant to all weather conditions.

The roof system is available in more than 30 colours, different sizes and designs as per customers request.

The canvas cover can be used as a low-cost advertising space.





# Steel Construction and Base Plate



The base plate offered by us is produced by a specialist contractor who has been working successfully in the sector "Wash stations" for 20 years and who is holder of some patents.

The wash place steel concrete plates are produced in accordance with the latest CE regulations with floor heating and special heat insulation. The plates are characterized by highly dense concrete.

The surface can be coated according to customers request and can be provided with anti-slip coating. The stability of the basic elements, wall protectors and/or strip foundation are adapted to the steel superstructure construction in order to prevent unnecessary steel construction parts. A roof parapet for advertising purposes can also be erected.

The complete drainage including frost protection canal, socket-welded PE pipes and oil separator are supplied and installed conforming to standards.

Requirement analysis as to customers request and profitability are just as self-evident as the individual professional planning by our in-house architects and engineers. The planning comprises applications for building licences as well as the required applications for water/drainage water and separator calculations.

**MADE IN  
GERMANY**



Offer your customer the comfort of a high suction power combined with an effective drying station. A central boom guarantees simple handling and easy access to the vehicle from all sides.

## Vacuum-Cleaning and Blow-Drying Unit

The spring balancer enables an operation without tiring and prevents hoses from lying about and getting dirty. The long life of the hoses is another asset.



### ► Vacuum cleaner

is provided with a central boom ready-for-use. Just connect it to the mains plug and you will have a new attraction for your wash station.

### ► Dryer

Fast, simple and uncomplicated drying – for a brilliant result! Free of water drops, lacquer caring in summer as well as in winter.

Drying of even the finest cracks such as door, exterior mirrors, radiator grill and many other spots which may leave marks on the vehicle.



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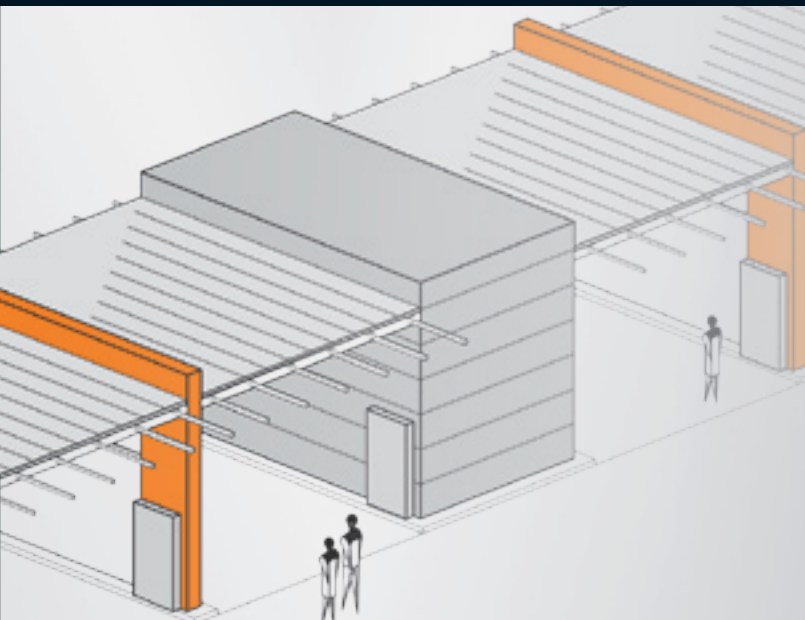


# Mechanical Room

Decide for our pre-assembled container!



The wash bays are fed by technical components via the machinery room.



- ▶ **Self-Service Module**, 1 unit per wash bay, consisting of:
  - High pressure motor pump block
  - Powder dosing device for the highly efficient FRANKORANGE detergent
  - Additional detergent storage tanks for the programs "HOT WAX" and DRYING with SPRAY POLISH
  - Switch cabinet
- ▶ **Hot Water Generator**  
for hot water programs and wash bay floor heating for frost protection
- ▶ **Duo Water Softener**  
with automatic regeneration without interruption in supply
- ▶ **Reverse Osmosis Plant**  
The pre-softened water is completely demineralised for the program "Drying with Spray Polish"
- ▶ **Frost Protected Pump Station**  
which includes the water pipes and wash bay lances

## Technical data, for every wash bay with self-service module

Operating pressure	Volume flow	Operating temperature	Electrical mains connection	Control voltage in control cabinet	Nominal consumption
110 bar	800 l/h	max. 70° C	400 V 3N AC 50 Hz	24 V AC 50 Hz	4 kW 6,5 A

### Gas-heated: FGS

- ▶ Water heater with high grade stainless steel heating coil
- ▶ Gas blower burner with flame control

### Electrically-heated: FES

- ▶ Stainless steel hot water tank with heating elements, regulating thermostat and level control

### Oil-heated: FOS

- ▶ Water heater with high-grade stainless steel heating coil
- ▶ Oil atomization burner with oil pre-heater and flame control
- ▶ Fuel oil tank with drain cock and level indicator



### 4 Programs

- ▶ Cleaning
- ▶ Rinsing
- ▶ Hot wax
- ▶ Spray Polish – Drying

### Special wash bay equipment

- ▶ Swivelling boom for ceiling and wall mounting
- ▶ Separation module for spray lance and brush lance
- ▶ Brush lance with foam formation
- ▶ Stainless steel foam lance holder for brush lance and external frost protection water circuit
- ▶ Separate control cabinet with operating panel, electronic coin checker and/or chip card reader, with secure pillar safe and stainless steel cover

### Additional equipment

- ▶ Swivelling boom
- ▶ Water softener with automatic regeneration and salt-dissolving tank
- ▶ Chip card system, card reader for rechargeable chip cards with special code and display for value indication

- ▶ Triple-plunger high pressure pump with solid ceramic plungers
- ▶ Three-phase motor
- ▶ Safety fitting block with guided program-dependent solenoid valves
- ▶ Centrifugal pump for internal water supply and external frost protection water circuit
- ▶ Storage tank with float valves for internal water supply and external frost protection water circuit
- ▶ Storage tank for liquid cleaning agents
- ▶ Powder dosage device for variant-P (Powder)
- ▶ High pressure hose with spray lance and frost protection spray gun
- ▶ Electrical switch cabinet with operating panel, electronic coin checker, digital display showing the wash time, program push buttons, emergency switch-off push button
- ▶ Internal safe
- ▶ Heating elements for internal frost protection
- ▶ Stainless steel cover, front door with safety locks
- ▶ Stainless steel lance holder for spray appliance and external frost protection circuit

## Technical Data and Equipment

Series, Type	Order No.	Operating pressure max. (bar)	Volume flow max. (l/h)	Operating temperature max. (°C)	Mains connection (V-50Hz)	Nominal consumption (kW)	Heat capacity (kW)	Fuel oil consumption (l/h)	Gas consumption (m³/h )	Oil-heated	Gas-heated	Electrically-heated	7m high pressure hose, spray gun, spray lance	Frost protection	Chip card system	Boom	Water softening device	Separation module	Brush lance	Swivelling boom	Weight (kg)	Dimensions LxBxH (mm)
Oil-heated, with electronic coin checker, 4 programs																						without boom 1350 x 700 x 1800
FOS 811 F	4081160300	110	800	70	400/3	5	54	□5,9		●			●	●	○	○	○	○	○	○	500	
FOS 811 P	4081160500	110	800	70	400/3	5	54	□5,9		●			●	●	○	○	○	○	○	○	500	
Gas-heated, with electronic coin checker, 4 programs																						with boom 1350 x 700 x 3200
FGS 811 F	4081112300	110	800	70	400/3	5	54		□6		●		●	●	○	○	○	○	○	○	500	
FGS 811 P	4081112500	110	800	70	400/3	5	54		□6		●		●	●	○	○	○	○	○	○	500	
Electrically-heated, with electronic coin checker, 4 programs																						
FES 811 F	4081170300	110	800	70	400/3		□24	18					●	●	○	○	○	○	○	○	500	
FES 811 P	4081170500	110	800	70	400/3		□24	18					●	●	○	○	○	○	○	○	500	

F: Liquid cleaning agent  
P: Powder cleaning agent

●: Standard equipment  
○: Additional equipment

■: based on an operating temperature of 70° C during the program, "Cleaning and Hot Wax"

# Wash Station

for one or multiple wash bays



- ▶ Practical equipment choices and varying program combinations mean the Self-Service Wash Stations can be perfectly adjusted to your demands.
- ▶ The variant-P with the highly efficient cleaning powder, FRANKORANGE, is an integral component.
- ▶ The stainless steel cover dominates the outer appearance and guarantees absolute corrosion resistance.
- ▶ The option remote control permits a locally separated installation: separate stainless steel operating cabinet with control panel and integrated safe, swivelling boom or rotating boom for wall or ceiling mounting, additional spray lance with foam brush and lance holder.
- ▶ The internal or external operating cabinet is equipped with electronic coin checker and/or chip card reader.
- ▶ This station is also equipped with an electronic value counter and a display for time/leftover time.

**Based on this wash station, a self-service wash station for multiple wash bays can be installed without mechanical room, e.g. 4 stainless steel cabinets for 2 wash bays, containing all high-quality technical components:**

- ▶ Hot water generator, oil or gas-heated
- ▶ 2 high pressure motor pump blocks
- ▶ 2 powder-dosing devices
- ▶ Fuel oil tank
- ▶ Detergent storage tank
- ▶ Water softener
- ▶ Reverse osmosis plant
- ▶ Frost protection pump station





Wall-mounted High pressure cleaner, unheated



Wall-mounted High pressure cleaner,  
oil-heated, gas-heated or electrically-heated



Self-Service Wash Station,  
oil-heated, gas-heated or electrically-heated



Mobile High pressure cleaner, unheated



Mobile High pressure cleaner,  
oil-heated or electrically-heated



Accessories and spare parts



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## Product Range



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