

# BORA

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# BORA

Mounted on a Toyota Hilux, our powerful combination 4x4 vehicle boasts an impressive liquid storage volume, powerful suction pumps and an efficient jetting system.

Whether the job brings you deep in a parking garage, in the hills of the midlands or off-road countryside, the BORA is your most precious ally. Indestructible and reliable, it will help you get the job done quickly, without hassle.



Beneath its compact exterior lies a powerhouse of utility!

This Toyota Hilux boasts ingenious design features, including two built-in tanks for storing both water and mud, a unique capability that ensures the vehicle is always prepared for a variety of tasks.

Whether it's a drainage, a clean or a task demanding the suction of waste you can count on the BORA.

Its sophisticated and secure design ensures a delightful driving experience. Say goodbye to dangling tubes at the rear. Additionally, the storage space is now lockable, enhancing safety and providing added security.



#### FOR URBAN USE

- Height 1850mm
- Work in urban areas and in underground car parks



#### POWER

- 360 m<sup>3</sup>/h Vacuum pump
- 1200 liters total volume
- 41 horsepower jetting pump



#### ERGONOMY

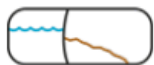
- Sludge tank filling reel without hose connection
- Flushing system
- 2 remote controls



#### SAFETY

- Engine stop/start by remote control
- Fully enclosed equipment
- Emergency stop button



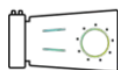


### Painted aluminum tank Ø950mm

Tank	Volume	Wall thickness
Total tank	1200 l	4 mm
-Water compartment	400 l	4 mm
-Sludge compartment	800 l	4 mm

### Jetting hose length

Jetting hose	Length	Ø	Automatic reel
Version 1	100m	1/2"	Yes
Version 2	80m	5/8"	Yes



### Jetting pump configuration

Jetting pump	Debit	Pressure	Power
Version 1	30 l/min	450 bar	37 hp
Version 2	37 l/min	400 bar	40 hp
Version 3	46 l/min	300 bar	38 hp
Version 4	70 l/min	200 bar	37 hp

### Suction hose length

Suction hose	Length	Ø	Automatic reel
Version 1	30m	NB50	Yes
Version 2	17m	NB65	Yes



### Vacuum pump configuration

Suction hose	Length	Ø	Free flow	Power consumption
Version 1	30m	NB50	360 m3/h	7 Kw / 9.5 hp
Version 2	17m	NB65	360 m3/h	7 Kw / 9.5 hp



## RADIO CONTROLS

- 2 wireless radio controls
- Engine stop/start on the remote controls
- Harness included
- Lightweight, can be used with one hand



Maximize Operational Control with our BORA's Dual Radio Controls!

Our innovative system offers the convenience of two separate remotes, allowing operators to switch seamlessly in case one is lost or malfunctioning. While the controls can't be used simultaneously, this redundancy ensures uninterrupted operations, even in unforeseen circumstances.

Experience heightened precision and safety as you navigate challenging environments, knowing you have a reliable backup at your fingertips.



## STORAGE SPACE

- 600 liters of storage space
- Fully lockable, no loose items hanging out the top of the vehicle



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## Lighting of the truck



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## Possibility of working with closed doors





## WORK ZONE



-Up to 30m around the vehicle with the retractable hose.

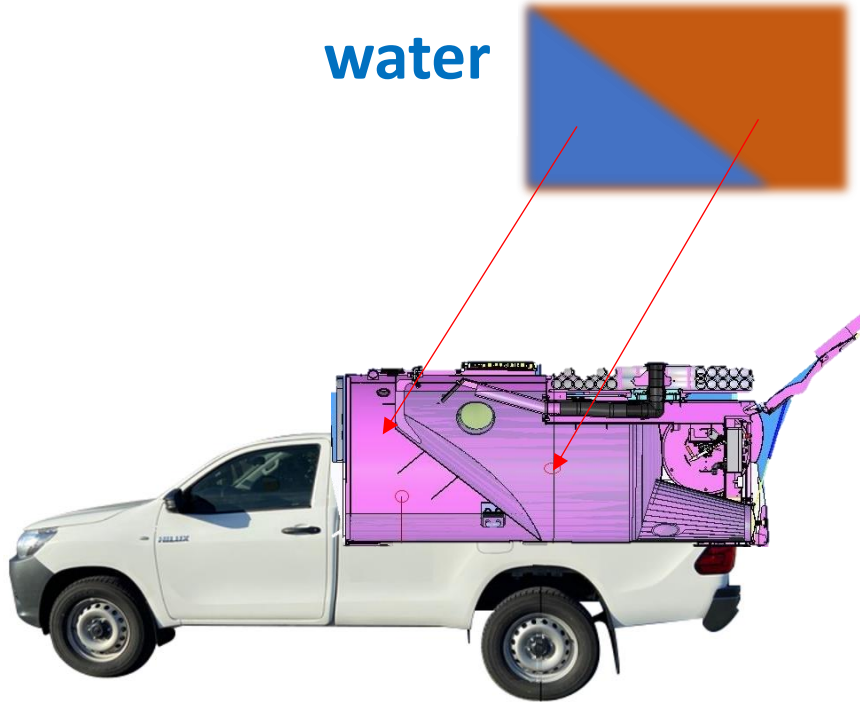
-Suction hose reel NB50 or NB65



# A balanced tank design

water

sludge



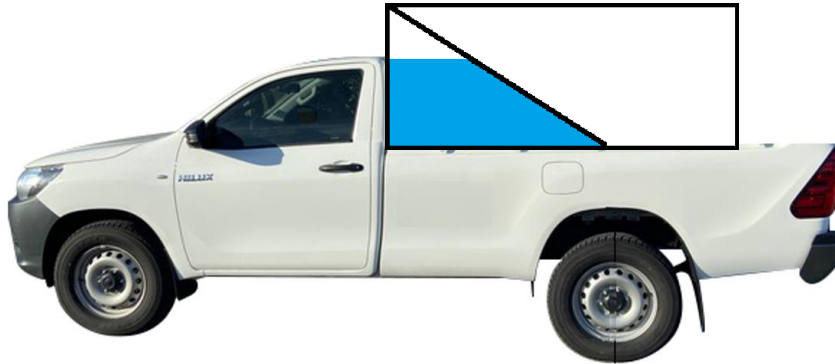
**These vehicles are often driven by operators who do not have a truck drivers' license. They are not trained to drive with loaded vehicles, therefore load balance is essential!**

## RIVARD TANK DESIGN



## COMPETITOR TANK DESIGN

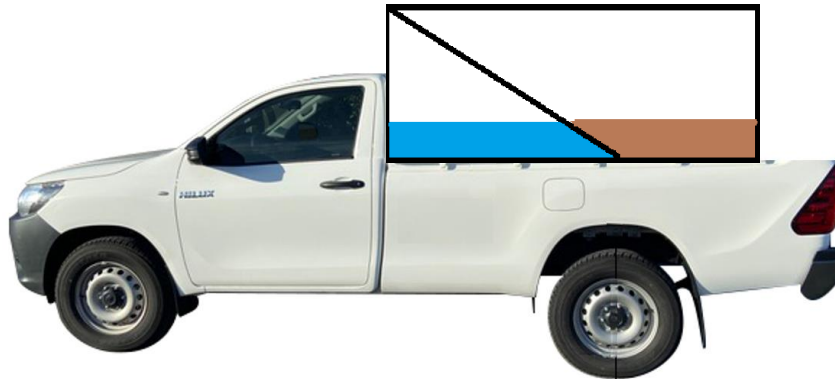




**Before**

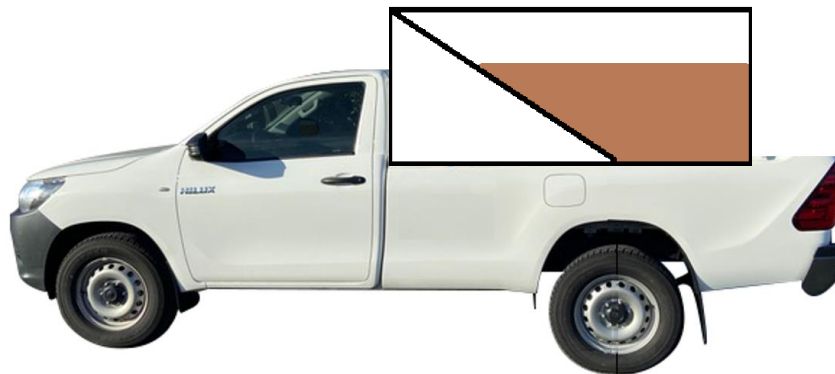
## **RIVARD TANK DESIGN**

-Designed for optimal balance between water and sludge loads.



**During**

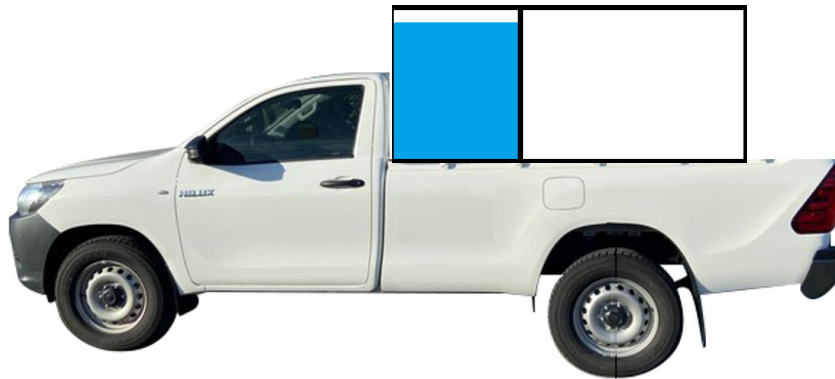
-This is achieved thanks to a slope in tank dividing wall between the mud and the water.



**After**

-Thanks to the sloped design, there is considerably less wear and tear on the rear axle end suspensions.  
**Braking\***





**Before**

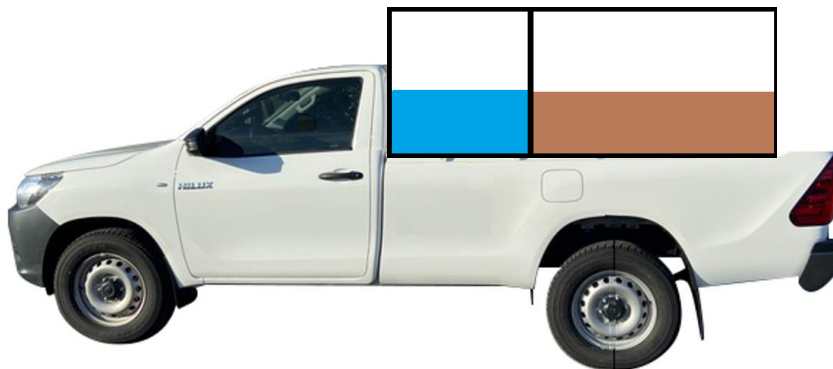
## **COMPETITOR TANK DESIGN**

**-Simple design, mud  
next to water.**

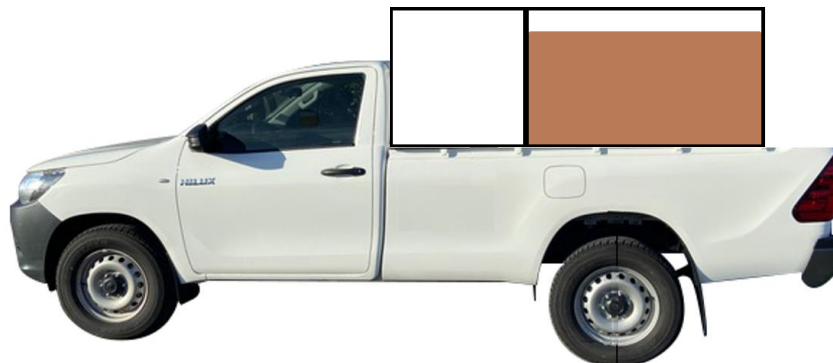
**-Without this slope  
the loads are not  
distributed  
efficiently.**

**-Premature wear and  
tear of the  
suspensions and rear  
axle.**

**-Dangerous when  
braking or leaving an  
underground parking  
garage**

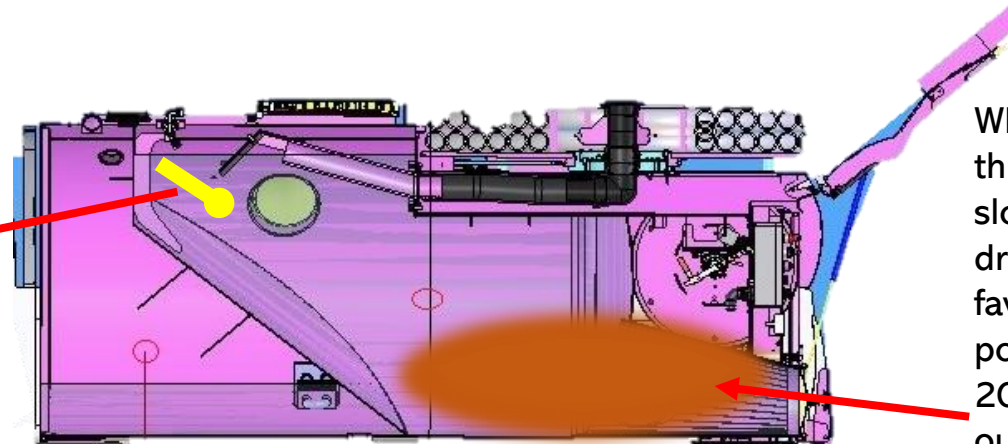


**During**

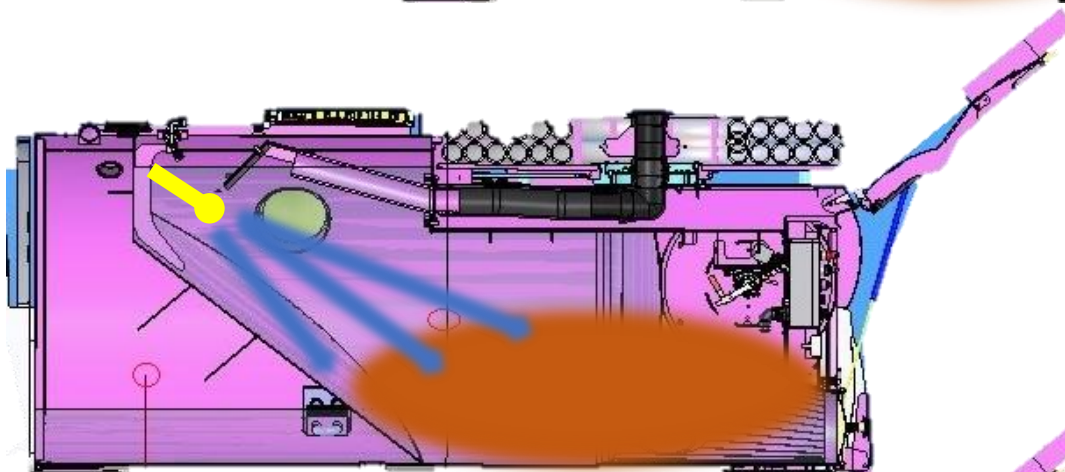


**After**

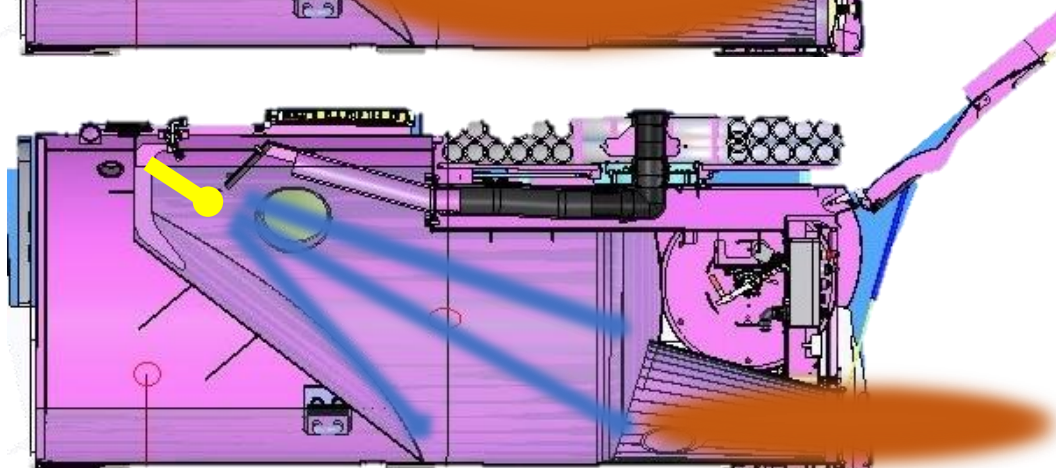
# Complete draining of the mud tank with spray nozzle (CIP)



When the sludge is thick, thanks to the slope in our tank, the dry matter accumulates favorably at the low point close to the 200mm diameter rear outlet.



By pressurizing the sludge tank, reversing the flow of the vacuum pump, and flushing through an integrated CIP system composed of 2 high pressure spray nozzles inside of the water tank, the sludge tank is cleaned effortlessly.



Also, an external manual spray gun enables the sludge tank to be washed via a fist hole located on the left-hand side of the tank.

## Options

- 2 000 liter trailer
- Heating element (Webasto) for freezing temperatures
- Dosing pump
- 15hp hydraulic outlet
- 25m Ø 19mm filling hose
- 40m reel extension with extended range remote control

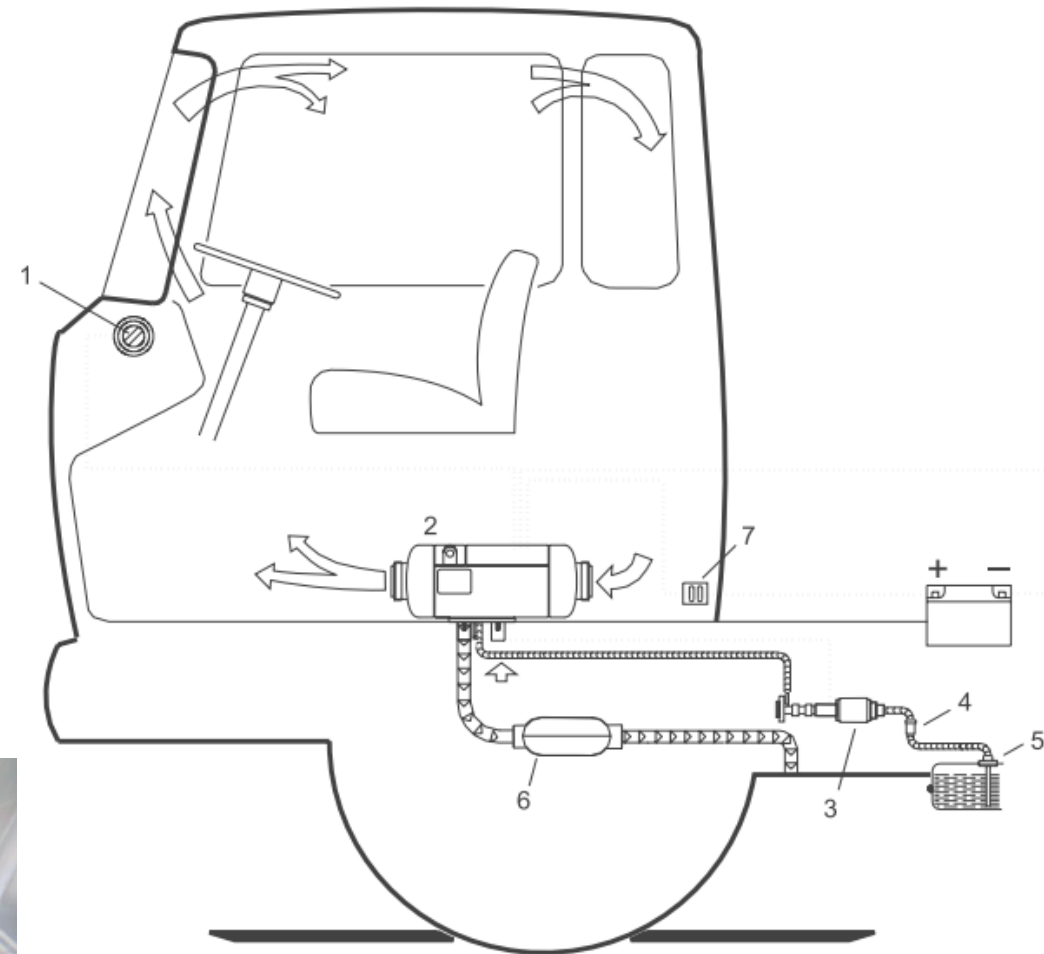
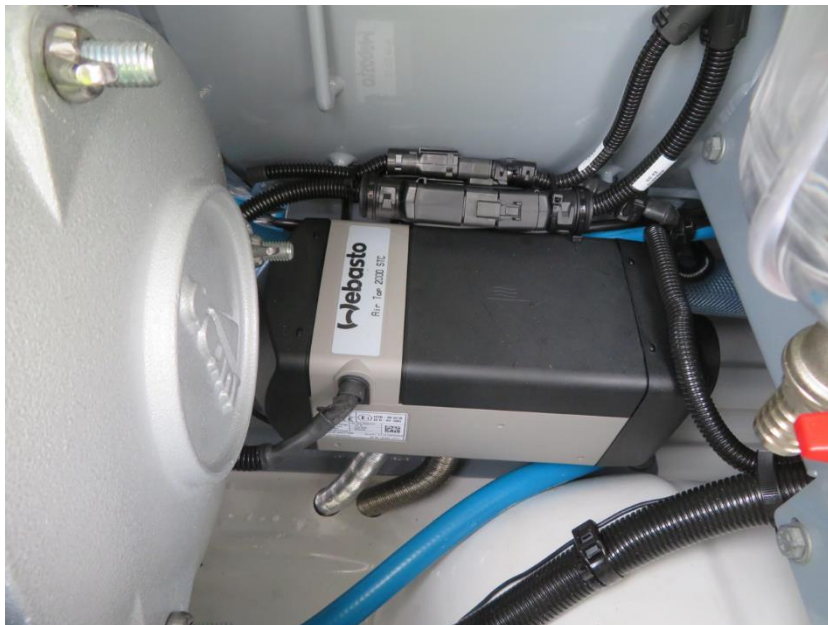




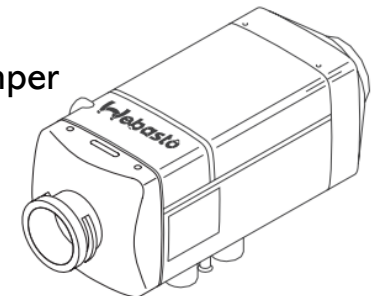
## Option - Webasto heating element

Ensure operational efficiency in cold temperatures by adding a Webasto to your BORA.

In chilly conditions, the Webasto system activates automatically, circulating warm air within the truck. By utilizing fuel sourced from the truck itself, the Webasto proves to be a dependable remedy for preventing the freezing of BORA pipework in cold weather.



- 1 Control element
- 2 Heater
- 3 Metering pump and damper
- 4 Fuel filter (accessory)
- 5 Tank connector
- 6 Exhaust silencer
- 7 Fuse

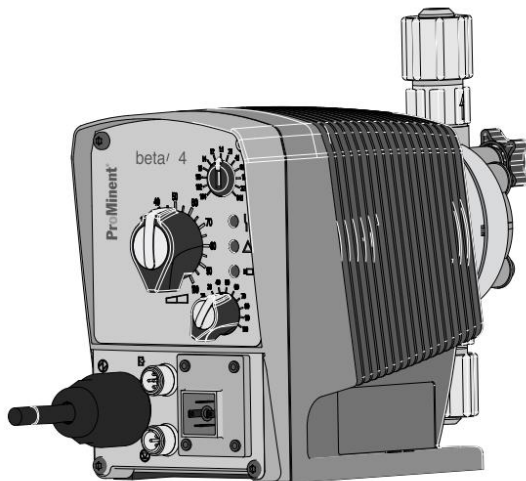


## Option — Dosing pump

Enhance the operational prowess of your BORA with our dosing pump option.

Engineered for precision, the dosing pump option ensures accurate chemical dosing, optimizing treatment levels for superior results.

Built for reliability, this dosing pump guarantees consistent performance, even in the most challenging environments, making it the ideal choice for professionals seeking top-tier solutions in the sewer management industry.



## Option -15hp hydraulic outlet



The 12 CV hydraulic system is conceived to drive a transfer pump.

The 3 push/pull outlets are located on the rear left of the vehicle.

NB: This function does not allow the simultaneous drive of a vacuum pump and hydraulic system.

Specifications	
Flow rate	30 l/min
Max pressure	190 bar
Couplings : -Pressure -Return -Drainage	push/pull
Weight	6 kg



Its versatility knows no bounds, making it the ideal choice for any demanding job.



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Don't be deceived by its small size; this remarkable vehicle is engineered to handle even the toughest tasks with ease and efficiency.

