



# WERNER



## IMPI WET / DRY VAC COMBI UNIT



Established  
**88**



# TECHNICAL SPECIFICATIONS

## 3- Axle Truck (see Fig. 1 and 2)

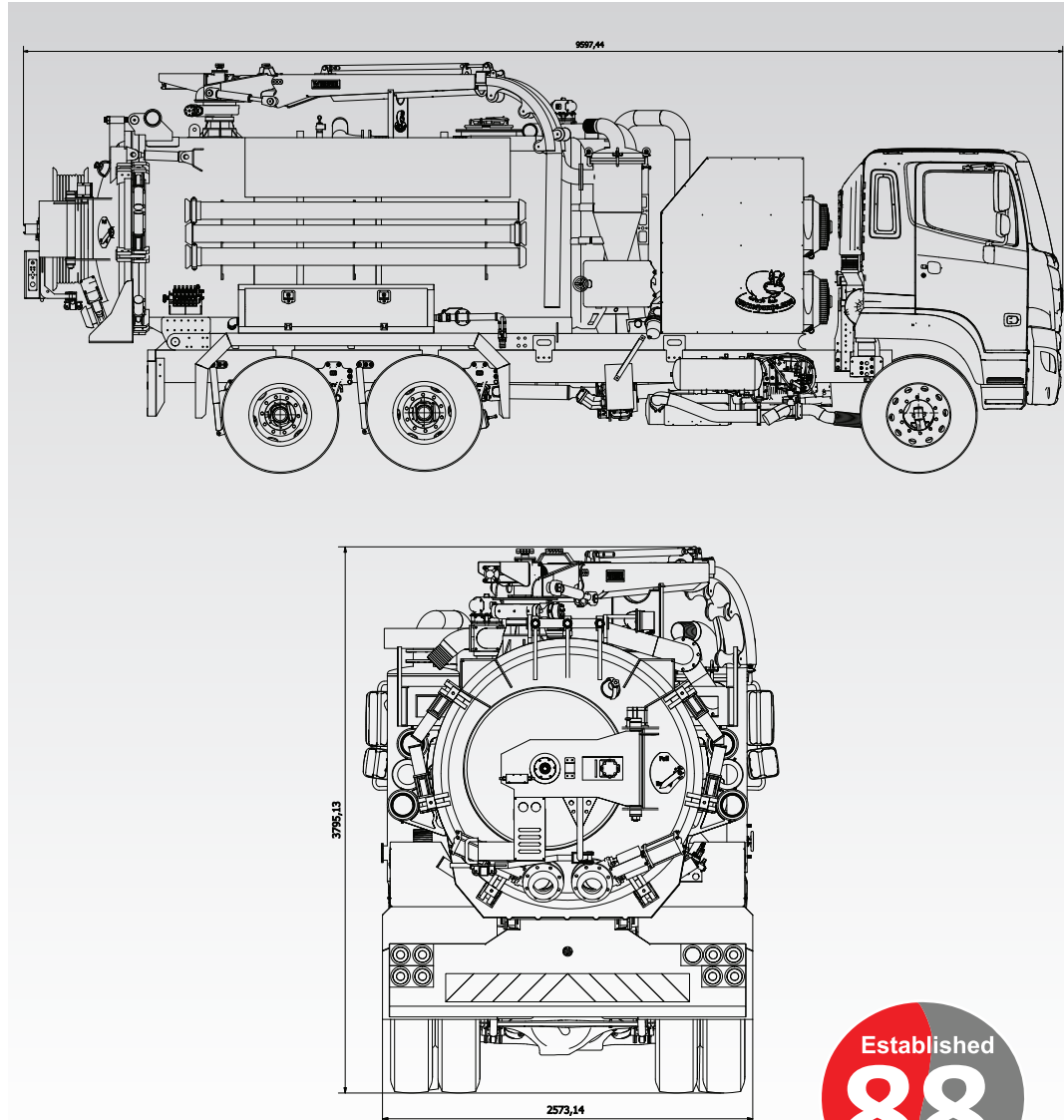
Tank Volume (L):  $\pm 12,500$  L

Payload (Kg):  $\pm 12,500$  L

Dimensions (L x B x H): 9597 x 2573 x 3795 mm

## Tank Superstructure

- Constructed from 316 stainless steel, 6 mm thickness for superior corrosion resistance and longevity
- Cylindrical, vacuum-resistant end plates for structural strength under high negative pressure
- Overflow valve with integrated pressure-safety function
- 2 x Hydraulic double-acting rear door cylinder with locking system to prevent accidental closure
- Pneumatic throttle valve prevents discharge during transit
- Pneumatic 6-inch discharge knife gate valve for controlled emptying
- Hydraulic tipping system (approx. 40° tilt angle)
- 30 m  $\times$  1/2-inch lateral hose reel with quick couplings
- Mechanical safety lock to secure tank when raised
- Precision-built for reliability and operator safety, the Impi Wet/Dry is ideal for extended, heavy-duty operation in industrial, municipal, and environmental sectors.



# ALL DETAILS AT A GLANCE

## Built for Performance • Designed for Endurance

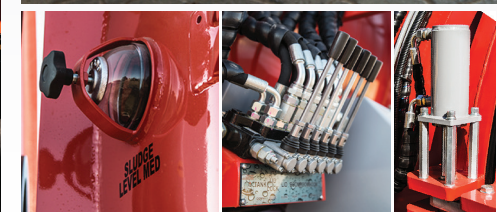
The Werner Impi Wet/Dry Combination Unit is South Africa's most advanced, high-performance sewer-cleaning and vacuum solution — built to excel in the harshest environments. Engineered for versatility, it combines wet and dry suction, jetting, and vacuum capabilities in one robust system, delivering exceptional efficiency and durability in every operation. Reliability. Power. Innovation. Proudly 100 % South African Built.

Each feature of the Impi Wet/Dry Combi Unit is designed for maximum safety, usability, and performance.

### Highlighted Components

- Werner Patented Cyclone Filtration System: Dual-stage filtration for dry and wet suction
- Rear-Mounted Control Panel: IP65-rated controls for safe and intuitive operation
- Sludge-Level Indicator: Provides real-time monitoring during operation
- Hydraulic Control Levers: Durable, ergonomically designed for precision handling
- Rear Door Lock Cylinder: Secures the tank with hydraulic integrity
- Manual Lateral Hose Reel: 30 m of ½-inch hose for auxiliary use

The Impi's intelligent layout simplifies complex operations — enhancing productivity, safety, and serviceability.

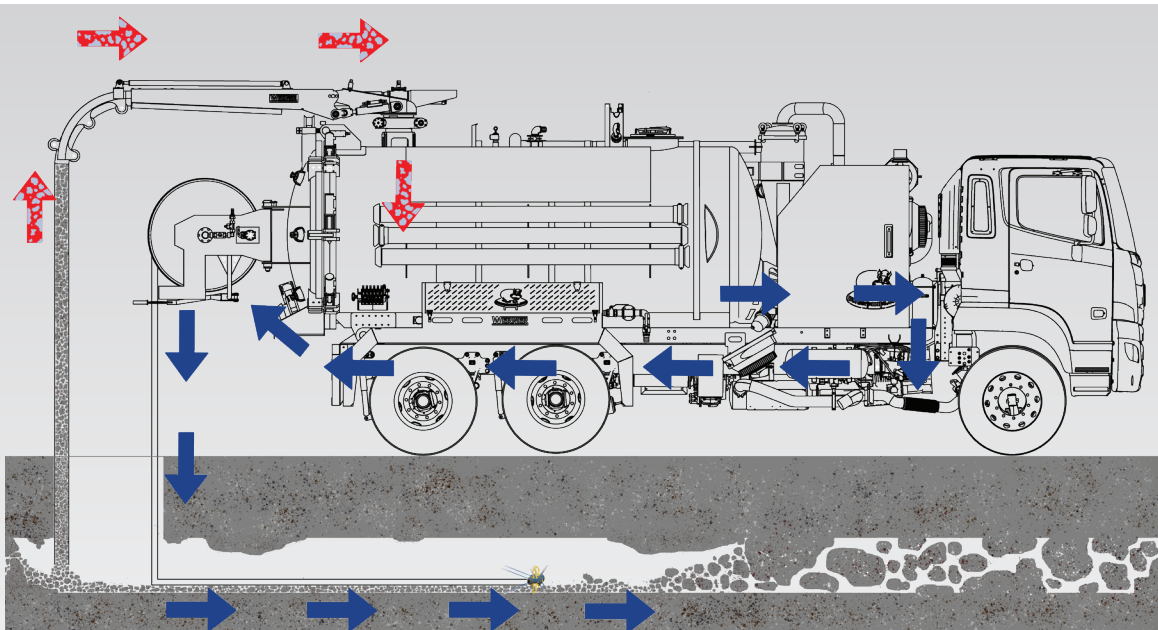




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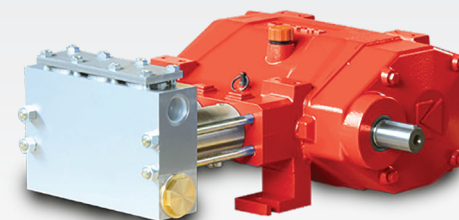
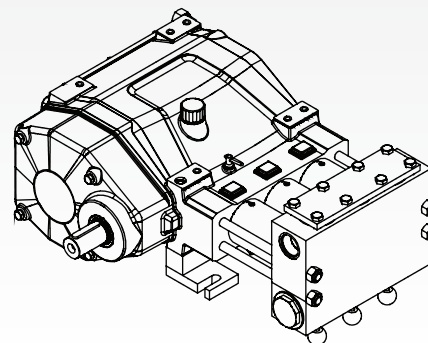
## HIGH-PRESSURE SYSTEM



### High-pressure System (Hydraulically Driven)

- Werner High-Pressure Triplex Plunger Pump
  - Flow rate:  $\pm 295$  L/min
  - Pressure: Up to 150 bar (chassis-dependent)
- Compact, powerful, and reliable — the high-pressure system delivers fast and effective jetting performance for a wide range of cleaning applications.
- Hydraulically driven via Split Shaft Unit
- Hydraulic driven self-priming overfeed pump ensures consistent pressure
- Pneumatic regulating valve with automatic bypass protection
- Integrated dry-run protection system for extended pump life

- Water-Level Control
  - Visual water-level gauge
  - Low-level alarm and automatic pump stop for system protection
- Rear Hydraulic Hose Reel
  - Mounted above tank rear door
  - Manual 180° swivel and hydraulic rotation via protected motor and chain
  - Flow-rate regulator ensures smooth winding/unwinding
  - Locking device prevents movement during transport
  - Equipped with 120 m  $\times$  1-inch high-pressure hose
- Lateral Hose Reel
  - Left-side mount, manually operated
  - Hand-wheel control with lock
  - 30 m  $\times$  1/2-inch reinforced hose for cleaning smaller lines or manholes





# WERNER

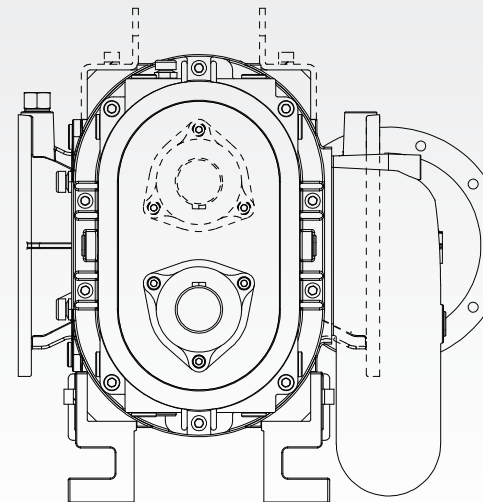
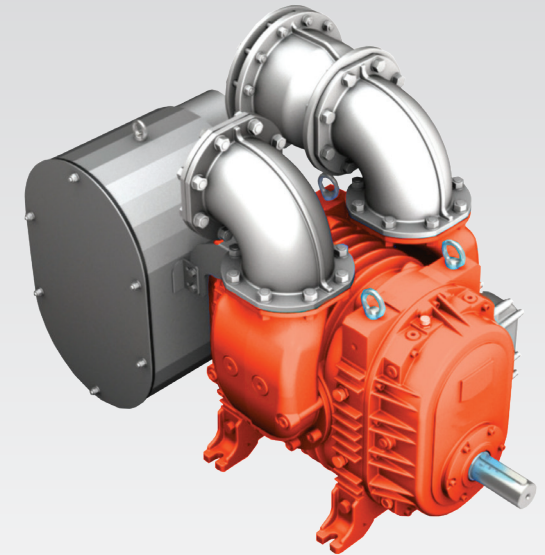
## VACUUM SYSTEM

### Vacuum System (Hydraulically Driven)

- Werner PVT400 Tri-Lobe Blower Vacuum Pump
  - Maximum Airflow: 2 600 m<sup>3</sup>/h
  - Maximum Vacuum: 93 %
  - Drive System: Hydraulically driven from chassis PTO
  - Cooling: Air-cooled for efficient, continuous high-vacuum operation
  - Pneumatic four-way valve system enables easy switching between suction and pressure
  - Noise-Reduction Silencers fitted to both suction and discharge lines
  - Non-return valve for system protection
- Werner Patented Dual Cyclone Filtration System  
Designed specifically for dry suction operations.
  - Dual-stage stainless-steel filtration chamber
  - Integrated overflow valve and level gauge
  - Captures moisture, fine dust, and solids before reaching the vacuum pump
  - Electronic liquid sensor with automatic pump safety shut-off
  - Pneumatic discharge valve for controlled emptying
  - Continuous cooling circuit using 250 L feed-water tank
- 5" Hydraulic Suction Boom
  - Top-mounted design with centre-plate and suction turret
  - Hydraulic lift: 3 500 mm amplitude
  - Hydraulic extension: 1 350 mm stroke
  - Lateral reach: 3 300 mm
  - Full 360° rotation for flexible operation
  - Equipped with 125 mm rubber suction hose and galvanised terminal pipe
  - Push-button remote panel controls boom rotation, vacuum inversion, throttle, and arm movement



- The combination of power, reach, and control makes the Impi Wet/Dry ideal for cleaning sludge pits, catch basins, storm drains, and industrial tanks





# EQUIPMENT AND ACCESSORIES

## Hydraulic System

- 300 L Hydraulic oil reservoir with level gauge and filter
- Cooling and safety valve system for optimal temperature management
- Shut-off valves for easy maintenance

## Control System

- Rear-mounted IP65-rated steel control panel featuring:
  - E-stop switch
  - Vacuum and HP pump engagement
  - Water pressure regulator and gauges
- Remote cable control for tank tipping, door opening, and hydraulic locks
- In-cab PTO switch for quick system activation
- Panel controls include:
  - Engine accelerator
  - Hose reel swivel control
  - Brake-valve and pressure control
  - Flow regulator, Pressure gauge and Vacuum gauge

## Power Transmission (SSU)

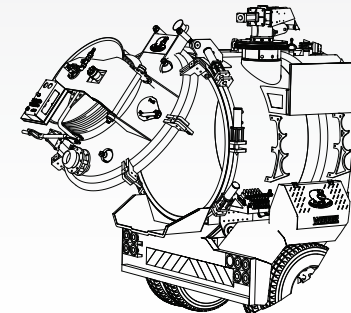
- Horizontal gearbox-mounted system
- Hydraulic power transmission to both HP and vacuum pumps
- Simultaneous pump operation capability

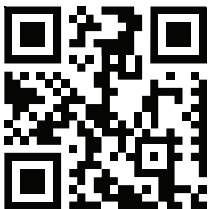
## Accessories

- High-pressure spray gun (½-inch hose)
- Nozzle set: Bullet, Grenade Bomb, and Pointed types
- Rear LED work light and additional light mounted on self-retractable reel
- Mild-steel tool box or clothes locker
- Working vice

## Upgrades (If required)

- Wired or wireless remote-control system
- 180 m hose reel upgrade
- Mechanical water-level indicator
- 360° hydraulic boom rotation
- Dangerous-goods compliance package
- Customisable to suit every operational requirement, the Impi Wet/Dry unit can be configured for municipal, industrial, or hazardous waste handling.





## EQUIPMENT & ACCESSORIES

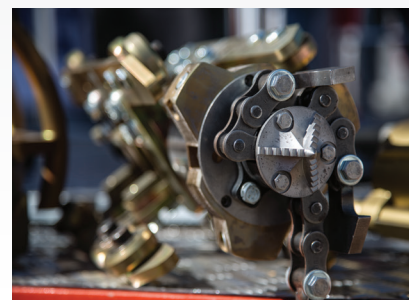
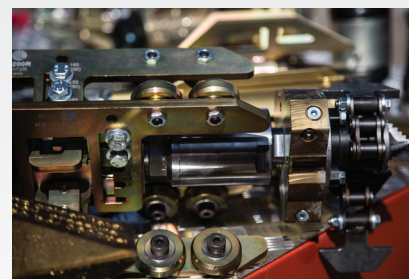
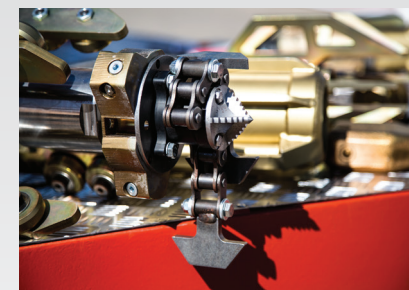
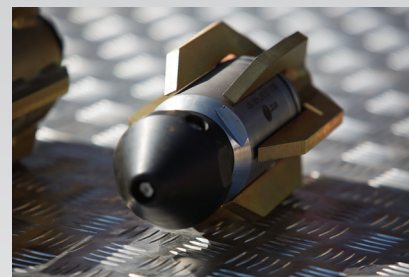
### Nozzles & Hoses

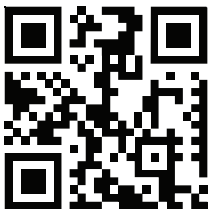
Werner Pumps supplies a full range of high-performance accessories designed to complement the Impi Wet / Dry Combination Unit and enhance overall efficiency.

Product Range Includes:

- ENZ Swiss-engineered jetting nozzles for precision cleaning
- Rotary and fixed nozzles for varying pipe diameters
- Specialised cutter and root removal heads
- Vacuum hoses, suction lines, and discharge couplings
- High-pressure hoses with reinforced protection layers
- Quick-release couplings and fittings

All accessories are rigorously tested for durability, safety, and compatibility with Werner high-pressure systems.





## Get in touch

For high-performance wet and dry combination jetting and vacuum solutions, contact Werner Pumps — South Africa's leading manufacturer of high-pressure cleaning equipment.

Experience superior design, reliable service, and unmatched technical support.



**SHEQ**  
NATIONAL CERT  
Certified: ISO 9001 · ISO 14001



**100%<sup>TM</sup>**  
**SA BUILT**

### Managing Director:



WERNER SOUTH AFRICA PUMPS & EQUIPMENT (PTY) LTD

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Managing Director

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Sales Manager

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Service Manager