



WERNER



IMPI COMBINATION





TECHNICAL SPECIFICATIONS AND EQUIPMENT

3-Axle Truck (see FIG. 1 & 2)

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

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

Dimensions (L x B x H): 9206 x 2600 x 3733 mm

Tank Superstructure

- Constructed from 304-grade stainless steel, 6 mm thickness for long-term durability.
- Cylindrical, vacuum-resistant end plates ensure strength and safety.
- Sight glasses provide continuous water-level indication with level gauge.
- Overflow and pressure safety valves prevent overpressurisation.
- Rear door fitted with double-acting hydraulic cylinders and locking system to prevent accidental closure.
- Pneumatic 6-Inch discharge knife-gate valve for quick controlled drainage.
- Tank tipping system (approx. 40°) using hydraulic cylinders.
- 30 m x 1/2-inch lateral manual hose reel with couplings.
- Mechanical safety lock when tank is raised.
- Pneumatic throttle valve prevents accidental discharge when driving.
- Engineered for functionality and operator safety, every detail of the Impi's tank design ensures robust operation in the field.

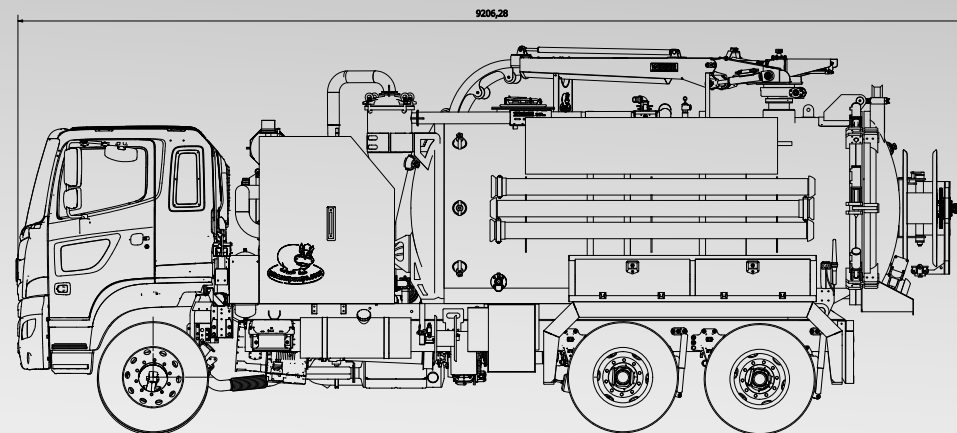


FIG. 1

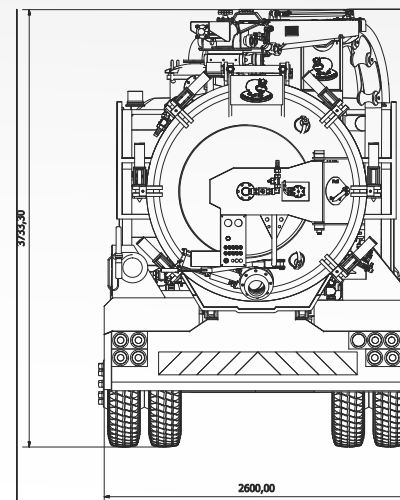


FIG. 2



ALL DETAILS AT A GLANCE

Power • Precision • Performance

The Werner Impi Combination Unit represents the ultimate in combined vacuum and jetting technology, engineered for Africa's demanding working environments.

Built to deliver powerful suction and high-pressure cleaning in one robust system, the Impi is the complete solution for municipal, industrial, and wastewater applications. Efficient. Reliable. Built to last. Proudly 100 % South African Built.

Every Impi Combination Unit reflects Werner's commitment to precision engineering and operator-focused design.

Key Components Include:

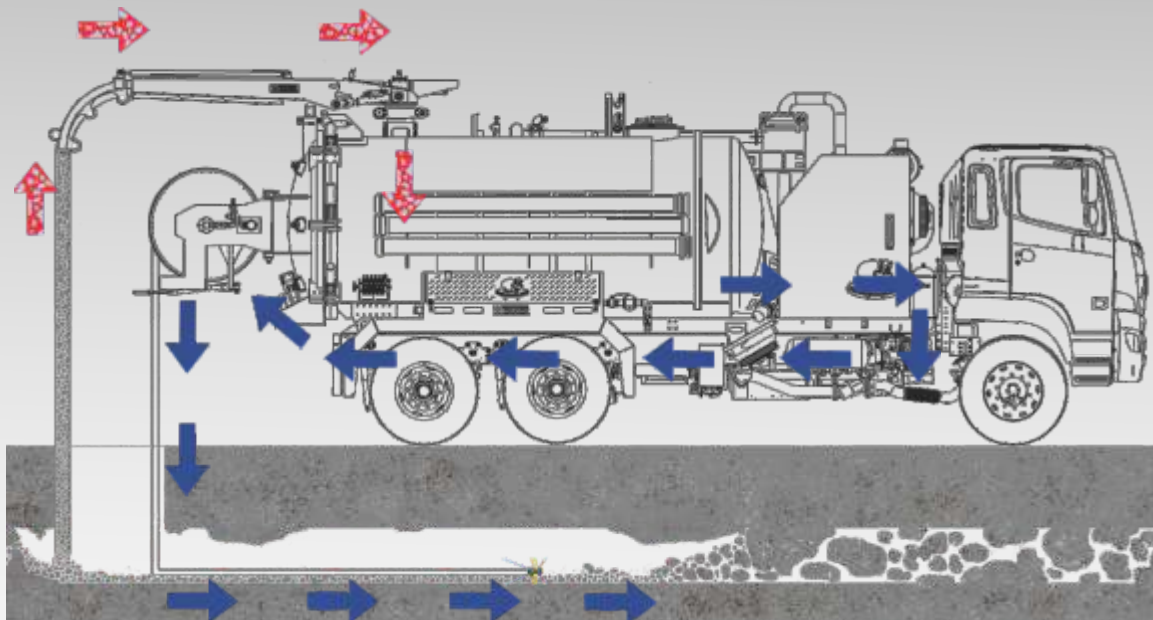
- Cyclone Separator: Prevents debris entry into the vacuum system
- Rear-Mounted Control Panel: Centralised controls for safe operation
- Sludge-Level Indicator: Provides clear, real-time feedback
- Control Levers: Intuitive, responsive, and colour-coded for clarity
- Hydraulic Rear Door Lock Cylinder: Ensures safe closure and sealing
- Manual Lateral Hose Reel: Easy-to-use for secondary cleaning tasks

The Impi is a complete, heavy-duty system — purpose-built for high-efficiency cleaning and minimal downtime.





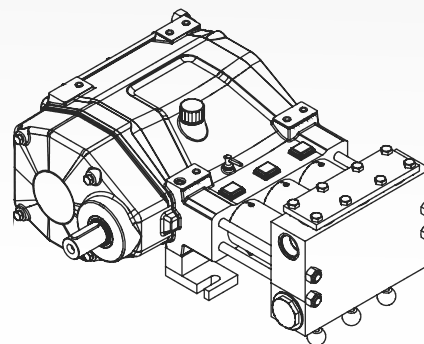
HIGH-PRESSURE SYSTEM



High Pressure System (Hydraulically Driven)

- Werner High-Pressure Triplex Plunger Pump:
 - Capacity: ± 295 L/min
 - Maximum pressure: 150 bar (depending on chassis power) hydraulically driven jetting system delivers maximum cleaning power, enabling rapid blockage removal and line maintenance.
- Hydraulic drive: Pump mounted on steel section support between cab and tank.
- Hydraulic Overfeed Pump: Self-priming design for consistent pressure supply.
- Pneumatic Pressure-Regulating Valve:
 - Automatic bypass to tank.
 - Dry-run safety protection.
 - Constant pressure control.

- Rear Hydraulic Hose Reel:
 - Mounted above rear tank door.
 - 180° manual swivel capability.
 - Hydraulic rotation via protected motor, pinion, and chain.
 - Flow regulator for smooth winding/unwinding.
 - Safety locking device to prevent movement during transport.
 - Equipped with 120 m x 1-inch high-pressure hose.
- Lateral Manual Hose Reel:
 - Mounted on left-hand rear side.
 - 30 m x 1/2-inch reinforced high-pressure hose.
 - Hand-wheel rotation and manual locking device.
- Integrated Visual Water-Level Indicator:
 - Low-level alarm and automatic pump stop.



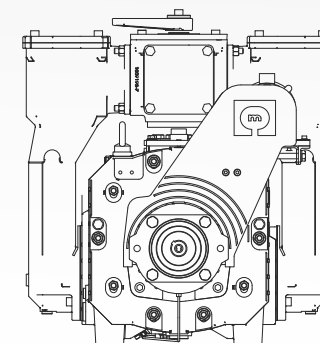
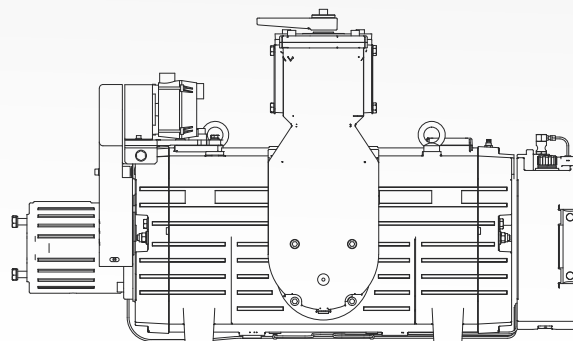
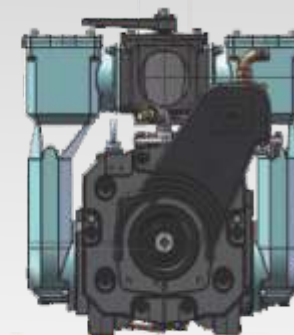
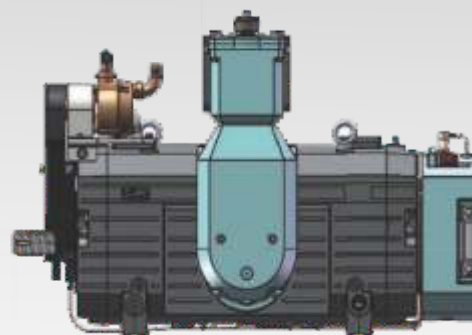


VACUUM SYSTEM

Vacuum System (Hydraulically Driven)

- Werner Storm Pm3000 Vacuum Pump.
 - Type: Vane vacuum pump, water-cooled.
- Performance:
 - Delivery: 1700 m³/h
 - Vacuum: 93%
- Drive: Hydraulic pump from SSU split Shaft unit.
- Cooling System: Continuous water circulation (250 L tank) allows long-duration high-vacuum operation without overheating.
- Integrated four-way pneumatic system: Enables quick vacuum/pressure inversion.
- Silencers: Reduce both suction and exhaust noise.
- Non-return valve: Protects system integrity.
- Moisture trap & security filter:
 - Stainless-steel moisture trap with overflow valve and level gauge.
 - Captures liquid/mud impurities before the vacuum pump.
 - Electronic liquid sensor with automatic safety shut-off.
 - Pneumatic discharge gate valve for easy cleaning.
 - Washable stainless-steel cartridge filter for fine-particle retention.
 - Quick-access inspection door and drainage valve.
- The system provides outstanding reach, safety, and control, perfectly suited to municipal, mining, and other industrial environments.
- Hydraulic suction Boom:
 - Top-mounted design with center plate and suction turret.
 - Full hydraulic rotation and lift (3,500 mm amplitude)
 - Hydraulic extension stroke of 1,350 mm

- Working outreach: 3,300 mm from side profile.
- 125 mm rubber suction hose with galvanized terminal pipe.
- Removable push-button control panel for all boom functions including: vacuum inversion, rotation, and throttle operation.





EQUIPMENT AND ACCESSORIES

Hydraulic System

- 300 L Hydraulic oil reservoir with filter, level gauge, and shut-off valves.
- Integrated cooling circuit to maintain optimal temperature.

Controls

- In-cab PTO switch: For easy activation.
- Control features:
 - Engine throttle control.
 - Hose reel swivel operation.
 - Water-pressure adjustment.
 - Brake-valve control.
 - Flow-rate regulator.
 - Pressure gauge and vacuum gauge.
- Rear Control Panel: Powder-coated mild-steel housing (Ip65)
 - Functions: Vacuum/HP pump engagement, water-pressure control, vacuum gauge, water-pressure gauge, and E-stop.
- Remote-Wire Control: Operates tank tipping, door opening, and locking cylinders.

Power Transmission

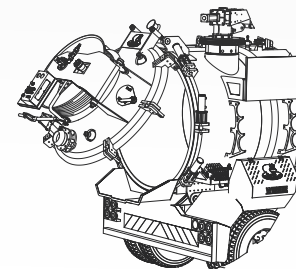
- Horizontal/vertical gearbox-mounted system.
- Hydraulic drive to both HP and vacuum pumps.
- Combined pump operation possible for maximum performance.

Accessories

- High-pressure spray gun with ½-inch hose.
- Nozzle set (pointed, bullet, grenade-bomb)
- Rear LED work light.
- Mild-steel tool or clothes box.
- Working vice.

Upgrades (IF REQUIRED)

- Wired or wireless remote-control system
- 180 m hose reel upgrade.
- Mechanical water-level indicator.
- 360° boom rotation system.
- Dangerous-goods compliance package.
- Each unit can be tailored to your operational requirements, with numerous upgrades and accessory options available to suit specific applications.





EQUIPMENT & ACCESSORIES

Nozzles & Hoses

Werner Pumps supplies a full range of high-performance accessories designed to complement the Amanzi Recycler 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 premium-quality combination jetting and vacuum equipment, contact Werner South Africa Pumps & Equipment (Pty) Ltd. today.

Experience the highest standards of manufacturing, service, and technical support from South Africa's leading supplier of high-pressure systems.



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