



WERNER



IMPI COMBINATION





TECHNICAL SPECIFICATIONS AND EQUIPMENT

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): 9206 x 2600 x 3733 mm

Tank Superstructure

- Constructed from 304 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 over-pressurisation
- 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 $\times$ 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

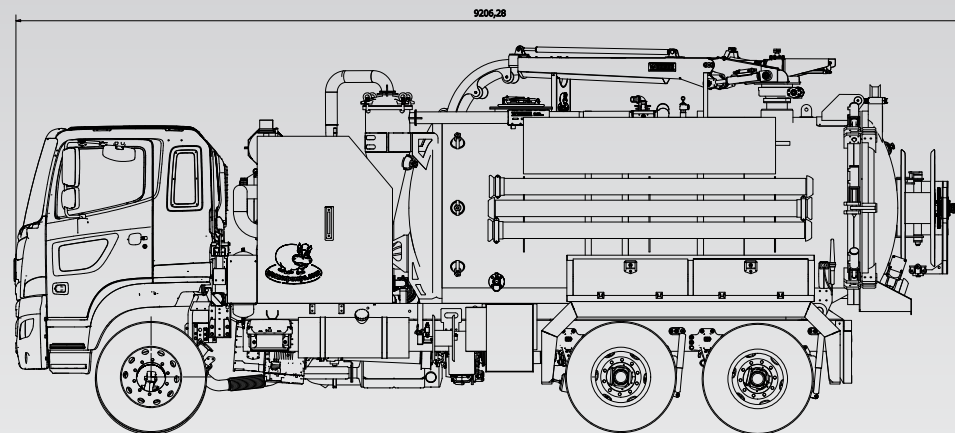
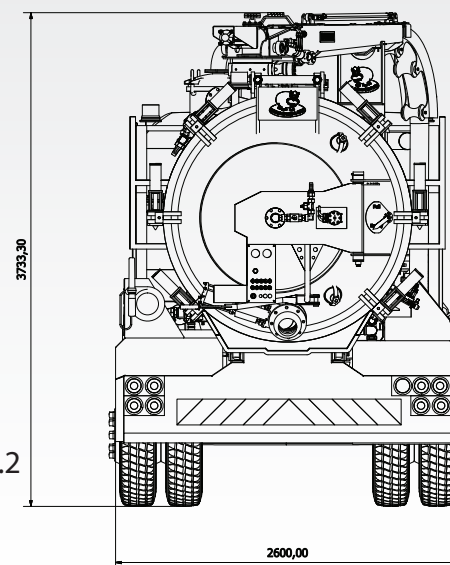


Fig.2



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.

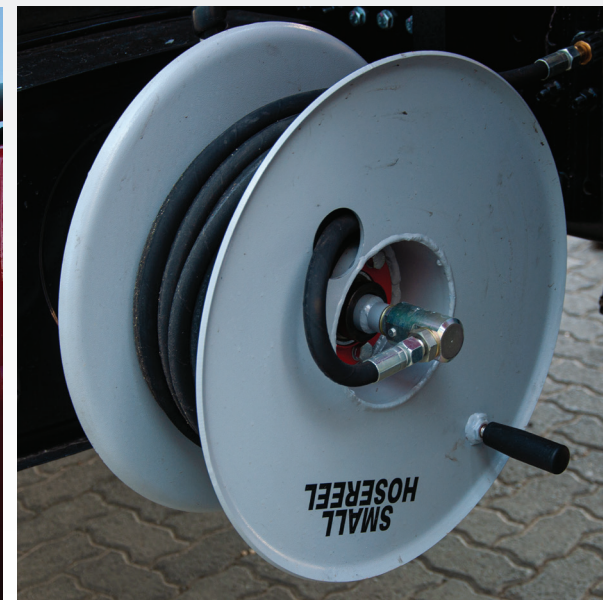
Built to deliver powerful suction and high-pressure cleaning in one robust system, the Impi is the complete solution for municipal, industrial, and wastewater applications. Efficient. Reliable. Built to last. Proudly 100 % South African Built.

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.

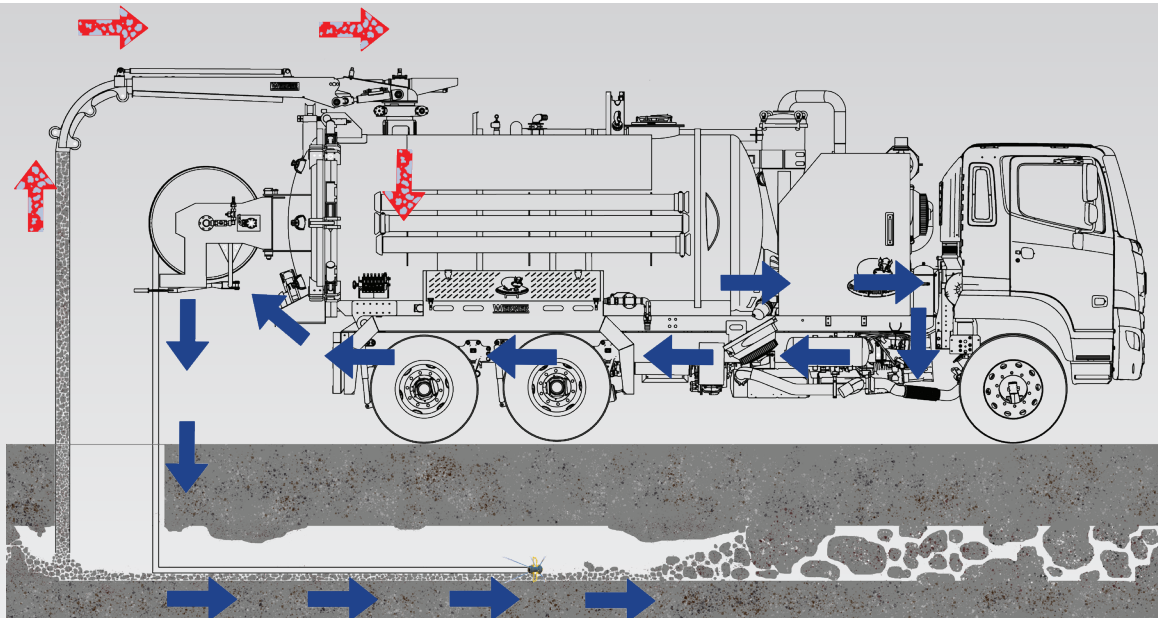




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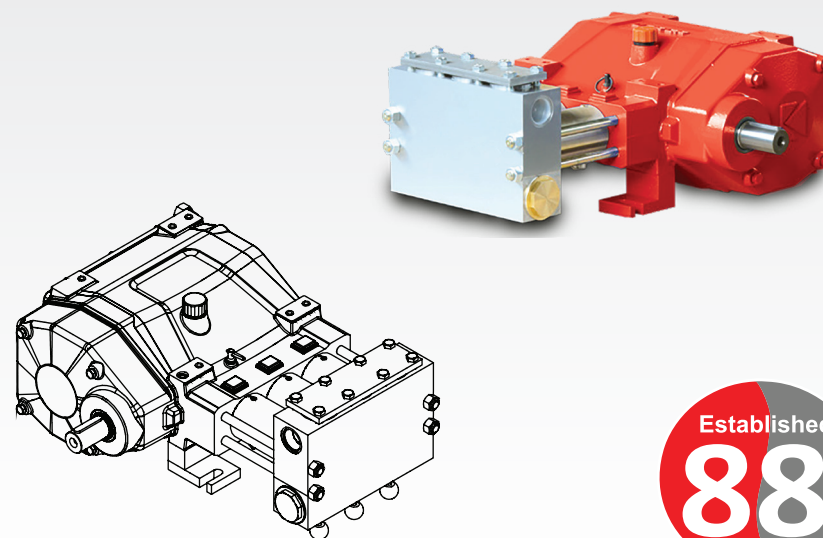
HIGH-PRESSURE SYSTEM

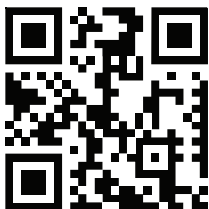


High-pressure System (Hydraulically Driven)

- 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 $\times$ 1-inch high-pressure hose
- Lateral Manual Hose Reel:
 - Mounted on left-hand rear side
 - 30 m $\times$ 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



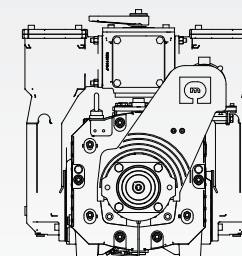
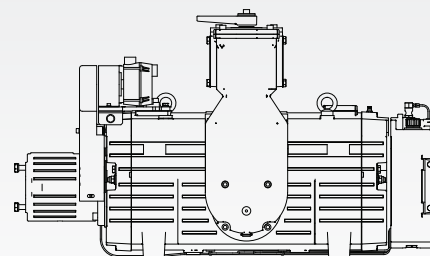
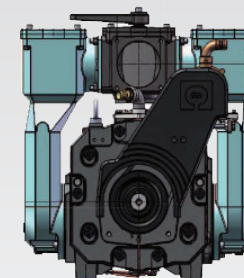
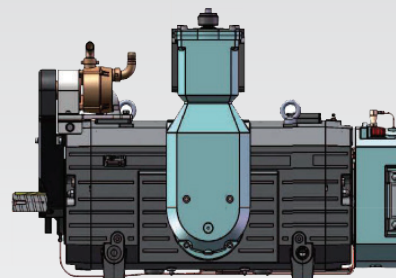


VACUUM SYSTEM

Vacuum System (Hydraulically Driven)

- Werner Storm PM3000 Vacuum Pump
 - Type: Vane vacuum pump, water-cooled
- Performance:
 - Delivery – 1 700 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
- This system provides outstanding reach, safety, and control — perfectly suited to municipal, mining and other industrial environments.
- Hydraulic Suction Boom
 - Top-mounted design with centre 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 galvanised terminal pipe
- Removable push-button control panel for all boom functions including vacuum inversion, rotation, and throttle operation
- This system provides outstanding reach, safety, and control — perfectly suited to municipal, mining, industrial and other environments.





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

Control System

- 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

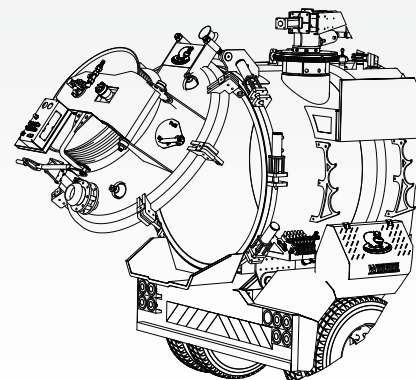
- Horizontal/vertical gearbox-mounted system
- Hydraulic drive to both HP and vacuum pumps
- Combined pump operation possible for maximum performance

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 upgrade and accessory options available to suit specific applications.





EQUIPMENT & ACCESSORIES

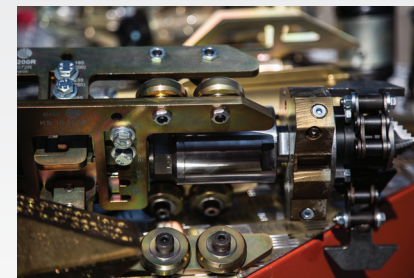
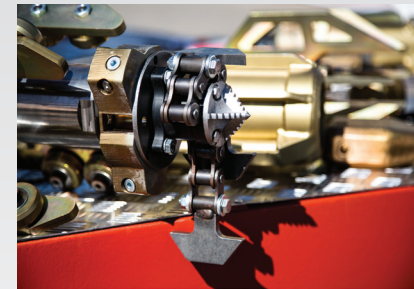
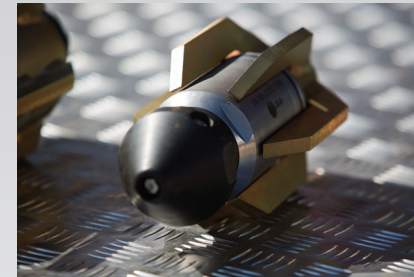
Nozzles & Hoses

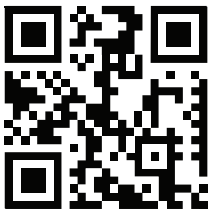
Werner Pumps supplies a full range of high-performance accessories designed to complement the Impi Combination unit and enhance overall efficiency.

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 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.



SHEQ
NATIONAL CERT
Certified: ISO 9001 · ISO 14001



100%
SA BUILT

Managing Director:



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