Proven technology. Solid performance.
Highpoint Vacuum is a highly specialised design and manufacturing organisation focussing on industrial vacuum applications. We are a South African company and produce locally which enables a much shorter lead time than imported products.

From concept to final product we believe in using the latest technology and manufacturing techniques. This philosophy helps us to simulate and analyse a product and build long before a single plate has been cut.

In keeping with our philosophy we employ the latest CNC cutting machines, 5 axis CNC machines and many more.

Using the latest technology shows in our products like the vacuum trucks, mobile vacuum units and mining units. We are the first company in South Africa to offer a combination jetting and suction vehicle designed specifically for local operating conditions. Our company includes a lot of firsts for South Africa. From the research design and development of our light weight liquid ring vacuum pumps to the first combination jetting truck with recycling. The fact that we research, design and create our own products, means that they are ideally suited for African conditions. We keep to modular designs and construction so parts are changeable and we always have exchange components available.
Custom built trucks.

### Truck Applications

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The HPVR-1000 Liquid Ring is the backbone of industrial cleaning in South Africa. It is a robust 12.5m³ industrial cleaning truck with a 316L stainless steel tank, 1200 cm³ liquid ring vacuum pump. Proven throughout South Africa for its robust and durable design.

Technical Specifications

1. Vacuum Tank
   1.1. The vacuum tank has a 12 x 500 liter capacity, of 316L Stainless Steel construction with a trim shell and 6% toro-spherical dished-ends. Rolled channel rings are installed for extra reinforcing to ensure structural integrity and long life.
   1.2. Tank tips hydraulically with a 14 ton tipping cylinder, up to 50 degree tipping angle. A burst valve protection.
   1.3. Protection bars for all peripheral extrusions like valves, manholes, etc.
   1.4. The tank features a full opening rear door with hydraulic opening and adjustable hinges, the door fastens with 6 opening position by a mechanical safety hook to prevent accidental closing during tank cleaning and maintenance.
   1.5. The tank door seals with a heavy duty EPDM seal that is corrosion resistant and offers high mechanical wear resistance.
   1.6. The tank is fitted with D150 PN16 ball valves at the back for different cargoes.
   1.7. The tank is fitted with flared spillage chutes at the back to inspection and material removal.
   1.10. Two revolving strobe lights fitted on tank for night time visibility with a work light at the back for night time operation.
   1.11. The tank is fitted with primary float ball knock out and material deflection on internal suction port.

2. Hydraulic System
   2.1. Low volume 30 lpm system.
   2.2. 70 litre hydraulic tank.
   2.3. Automated system for clamp, door and safety lock operation.
   2.4. Push button control so that door can only be opened from appropriate operator positions to prevent the chance of injury in case of spillage.
   2.5. Two hand control available on request.
   2.6. Pneumatic control eliminates the need for electronic safety protection.
   2.7. Lock-out when system not in use to protect against unintended movement of the system.
   2.8. PTO drive lock-out system to prevent operation during driving.

3. Accessories and Auxiliaries
   3.1. The truck is fitted with steel mudguards.
   3.2. Fitted with 2 steel tool boxes to store PPE, material and fittings.
   3.3. SABS tested underun bumper with chevron and lights.
   3.4. A Mack box is installed to store dirty fittings, PPE, etc.
   3.5. An 11 millimetre static earth line cable with clamp is fitted on a self retracting hose reel. Cable length is 10 meters.
   3.6. 13 km. 120 bar high pressure pump with lance and retractable hose reel to clean machine after operation.

4. Pump Drive(s)
   4.1. Driver to the high pressure pump and vacuum pump is via a dual output shaft drive gearbox.
   4.1.1. 1.50 kW single output drive.
   4.1.2. 1:1.25 output ratio.
   4.1.3. 1060Nm output torque.
   4.1.4. 25 kWh drive through torque (35 kWh intermittent drive through torque).
   4.1.5. Hot stamp pivot clutch for emergency stops.
   4.2. Pneumatic in-cab switching with lock-out protection to prevent accidental switch over.
   4.3. Fast reacting emergency stop.

5. Vacuum
   5.1. Drive
      5.1.1. Auto tensioning pulley and belt system for pump protection.
      5.1.2. Bolt on belt guard for easy access.
      5.1.3. Lourser for inspection and ventilation of belt drive system.

5.2. Liquid ring vacuum pump
   5.2.1. 1,350 cm³ free air volume and up to - 70 kPa (Gauge) continuous pressure.
   5.2.2. Aluminium construction for weight saving (172 kg).
   5.2.3. Adjustable cell aeration system with check valve.
   5.2.4. Silencer for cell aeration system.
   5.2.5. Side mount for low centre of gravity and weight distribution.
   5.2.6. Screened scraper box to protect pump against accidental carry over damage.

5.3. Filtration
   5.3.1. Heavy duty dual cyclone filtration unit with discharge boxes for material removal and inspection.
   5.3.2. Flanged pipe connections for easy cleaning and maintenance.

5.4. Service liquid tank
   5.4.1. 2000 liter capacity.
   5.4.2. 4 mm mild steel construction.
   5.4.3. Perrot style exhaust coupling for vapour removal at-heights are required.
   5.4.4. 2000 liter capacity.
   5.4.5. Heavy duty poly carbonate level viewing glass in steel casing.
   5.4.6. 500 mm manhole with seal and fastening device.
   5.4.7. Easy and safe access ladder with harness attachment points where working at heights are required.
   5.4.8. 50 mm camlock filling port.
   5.4.9. 75 mm drain valve with rear end discharge.
   5.4.10. Flanged pipe connections for easy access and maintenance.

6. Truck
   6.1. Nissan Cab: 26-370 with 270 kW at 1600 rpm.
   6.2. 1754 Net torque at 850 - 1450 rpm.
   6.3. Emissions: Euro III.
   6.4. Power Steering and exhaust brake.
   6.5. Air conditioned cab with radio and CD player.
   6.6. Digital multi display with hour, trip and odometers.
   6.7. Hour meter to monitor service cycles.

6.8. Air suspension driver seat for comfort on long distance travelling.
6.9. Seating for 3 persons (Driver, operator and assistant).
6.10. Oil and fuel filters have been designed to be located around the bottom of the engine, all close together for easier maintenance.
6.11. The filter capacity has been increased for longer intervals between maintenance and servicing.
6.12. The entire power train has been designed to be more environmentally-friendly and improve fuel efficiency, at levels that clearly exceed the requirements of Euro III regulations.
6.13. 7 speed manual transmission.
6.14. The Quein CVL cab is mounted on a 4-point wide tread air suspension mounting system, which improves cabin stability and enhancing overall driving comfort. The design helps to limit the cabin from rolling when the truck is turning, and the anti-sway deflection provides stability of the cabin even under harsh braking.

7. Safety
   7.1. Fast reacting pneumatics e-stops for vacuum operation.
   7.2. Mechanical safety hook to secure door in open position when cleaning or maintenance is required.
   7.3. Mechanical locking door clamps to prevent accidental door opening when travelling.
   7.4. Lock-out gearbox switch mechanism to prevent accidental gearbox switch-over when driving.
   7.5. Walkways with harness attachment point for where working at-heights are required.
   7.6. Automatic PTO lockout when driving.
   7.7. Automatic tank isolation valve when driving.
   7.8. Detailed decals to indicate component locations.
   7.9. Warning decals where necessary.

8. Legal
   8.2. Training include with unit.
   8.3. 6 month warranty on defects and workmanship.
   8.4. Illustrated maintenance and operations manual.

Our HPLR-1200 liquid ring pump features aluminum construction for light weight on the outside but with steel inside in all high wear areas. Seals and bearings are locally available sizes and we always have service exchange units on hand.
1. Vacuum Tank
1.1. The vacuum tank has a 12,500 liter capacity, is of 316L Stainless Steel construction with a 6mm shell and 6% toro-spherical dished-ends. Rolled channel rings are installed for extra reinforcing to ensure structural integrity and long life.
1.2. Tank tips hydraulically with a 14 ton tipping cylinder, up to 45 degree tipping angle. A burst valve protection.
1.3. Protection bars for all peripheral extrusions like valves, manholes, etc.
1.4. The tank features a full opening rear door with hydraulic opening and adjustable hinges, the door fastens with 6 hydraulic operated blanks with 12 mm drain valve and 90 degree elbow.
1.5. The tank door seals with a heavy duty EPDM seal that is corrosion resistant and offers high mechanical wear resistance.
1.6. The tank is fitted with D150 PN16 ball valves at the back for suction and liquid discharge operations, fitted with perrot-type couplings, push button control so that door can only be opened from the control section.
1.7. Mechanical safety hook to secure door in open position when cleaning.
1.8. 3 lobe roots blower with air injection this vehicle can obtain and maintain a constant vacuum of -90 kPa. It has an optional compressor feature for discharging dry bulk back in silo's where required.
1.9. The tank is fitted with flared spillage chutes at the back to limit spillage during dumping.
1.10. Oil and fuel filters have been designed to be located around the bottom of the engine, all close together for easier maintenance.
1.11. The filter capacity has been increased for longer intervals between maintenance and servicing.
1.12. The entire power train has been designed to be more environmentally-friendly and improve fuel efficiency, at levels that clearly exceed the requirements of Euro III regulations.
1.13. Speed manual transmission.
1.14. The Quan CWB cabin is mounted on a 4-point wide trest air suspension mounting system, which improves cabin stability and enhancing overall driving comfort. The design helps to limit the cabin from rolling when the truck is turning, and the anti-rollover geometry ensures stability of the cabin even under harsh braking.
1.15. ADR certified manhole with pressure relief valve and rupture disc protection.
1.16. Walkway sides provide ample space for client branding.
1.17. Hazard board holders with clips for quick board changing for different cargoes.
1.18. The tank is designed for 10 bar pressure and is tested to 1.4 bar.

2. Hydraulic System
2.1. Low volume 30 lpm system.
2.2. 70 lbf hydraulic tank.
2.3. Automated system for clamp, door and trap hook operation.
2.4. Push button control so that door can only be opened from appropriate operator positions to prevent the chance of injury in case of spillage.
2.5. Two hand control available on request.
2.6. Pneumatic control eliminates the need for electronic safety control.
2.7. Lock-out when system not in use to protect against unintended movements of the system.
2.8. PTO drive lock-out system to prevent operation during driving.

3. Accessories and Auxiliaries
3.1. The truck is fitted with steel mudguards.
3.2. SABS tested underframe bumper with chrome and lights.
3.3. Slowing compartments for dirty fittings, PPE, etc.
3.4. An 8 millimetre static earth line cable with clamp is fitted on a self retracting hose reel. Cable length is 10 meters.

4. Pump Drive(s)
4.1. Drive to the vacuum pump is via a dual output split shaft gearbox.
4.1.1. 110 kW single output drive.
4.1.2. 1.3 output ratio.
4.1.3. 25 kW drive through torque (55 kNm intermittent drive through torque).
4.1.4. Synchronous gearbox switching.
4.1.5. Pneumatic operated clutches for emergency stops.
4.2. Pneumatic in-cab switching with lock-out protection to prevent accidental switch over.
4.3. Fast locking-emergency stop.

5. Vacuum
5.1. Drive
5.1.1. Double kardon shaft with bolt on shaft guard and access for inspection and grease maintenance.

5.2. Positive displacement blowers
5.2.1. 16 lobe positive displacement blower.
5.2.2. 3960 ccm free air volume and up to -90 kPa (Gauge) continuous pressure.
5.2.3. Overheating protection for blower unit.
5.2.4. Continuous air injection cooling with silencer featuring removable sound absorbent material and cleanout function.
5.2.5. Centre-frame mount for easy access and optimal weight distribution.
5.2.6. Re-actor/absorbent exhaust silence with top discharge, sound absorbent material cleanout function.

5.3. Filtration
5.3.1. Stage 1:
5.3.1.1. Deflection plates inside tank.
5.3.1.2. Stainless steel floating ball primary shut off.
5.3.2. Stage 2: High performance dual cyclone filtration system with automatic dumping.
5.3.3. Stage 3:
5.3.3.1. Bag filter unit.
5.3.3.2. Filling air injection cleaning.
5.3.3.3. 56 filter socks on mesh cages, 127 mm diameter by 1000 mm length to ensure big filtration area to prevent blockages.
5.3.3.4. Automatic material dumping.
5.3.3.5. Continuous filter monitor.
5.3.3.6. Anti-corrosive coating.
5.3.3.7. Top opening door for filter inspection and cleaning.
5.3.3.8. Side opening inspection doors.
5.3.4. Stage 4: Stainless steel mesh final filter.

5.3.5. Easy and safe access ladder to filter unit with harness attachment points.
5.3.6. Flanged pipe connections for easy cleaning and maintenance.

5.4. Venturi discharge system.
5.4.1. CVS compressor for positive pressure tank discharge.
5.4.2. Venturi discharge system.
5.4.3. 15 000 ltr filter tank on 8x4 chassis.

6. Truck
6.1. Nissan Quon CWB 26-370 with 270 kW at 1800 rpm.
6.1.1. 1754 Nm torque at 950 - 1450 rpm.
6.1.2. Emissions: Euro III.
6.1.3. Nissan Quon CWB 26-370 with 270 kW at 1800 rpm.
6.1.4. Power Steering and exhaust brake.
6.1.5. Air conditioned cab with radio and CD player.
6.1.6. Digital multi display with hour, trip and odometers.
6.1.7. Hour meter to monitor service cycles.
6.1.8. Air suspension driver seat for comfort on long distance travelling.
6.1.9. Seating for 3 persons (Driver, operator and assistant).

7. Safety
7.1. Fast locking pneumatic e-stops for vacuum operation.
7.2. Mechanical safety hook to secure door in open position when cleaning or maintenance is required.
7.3. Mechanical locking door clamps to prevent accidental door opening when travelling.
7.4. Lock-out gear shaft switch mechanism to prevent accidental gear shaft switch-over when driving.
7.5. Walkways with harness attachment point for where working-at-heights are required.
7.6. Automatic PTO lockout when driving.
7.7. Automatic tank isolation valve when driving.
7.8. Detailed decals to indicate component locations.
7.9. Warning decals where necessary.

8. Legal
8.2. Training include with unit.
8.3. 6 month warranty on defects and workmanship.
8.4. Illustrated maintenance and operations manual.

9. Optional extra’s
9.1. CVS compressor for positive pressure tank discharge.
9.2. Venturi discharge system.
9.3. 15 000 ltr filter tank on 8x4 chassis.

HPVR-1000 PDB offers the high volume flow required for handling dry bulk material, but also a vastly superior filtration system for wet type applications. Featuring a 3 lobe roots blower with air injection this vehicle can obtain and maintain a constant vacuum of -90 kPa. It has an optional compressor feature for discharging dry bulk back in silo's where required.
The HPVR-1000 Combi features 6000 liters of water capacity and a 10 m³ vacuum tank. It does all you would expect of a combined suction and jetting unit, but can just as effectively be used as a vacuum unit offering unrivaled versatility. 304L stainless steel water and vacuum tanks offer superior resistance against corrosion. The vehicle comes standard with 120 meter light weight sewer cleaning hose on a hydraulic driven hose reel. A cassette type suction hose system is also available.

### Technical Specifications

1. **Vacuum Tank**
   1.1. The vacuum tank has a 10 500 liter capacity, is of mild steel construction with a 6mm shell and 6% tor-spherical dished ends. Rolled channel rings are installed for extra reinforcing to ensure structural integrity and long life.
   1.2. Tank tips hydraulically with a 14 ton tipping cylinder, up to 50 degree tipping angle. A burst valve protection.
   1.3. The tank features a full opening rear door with hydraulic opening and adjustable hinges, the door fastens with 6 hydraulic operated clamps with mechanical locking to prevent accidental opening while driving. The door is secured in the opening position by a mechanical safety hook to prevent accidental closing during tank cleaning and door open, clamps and hose reel operation with piping assembly, size 3/4” (Maximum 150 meter hose) with manual hose guide, speed regulator hydraulic and pneumatic locking function.
   1.4. The tank is fitted with primary float ball knock out and material spillage during dumping.
   1.5. Two reaching strobe lights fitted on tank for night time visibility with a work light at the back for night time operation.
   1.6. The tank is fitted with primary float ball knock out and material deflector on internal suction port.
   1.7. Pneumatic tank isolation valve with automatic operation to isolate tank during driving to prevent on-road spillage.
   1.8. Easy and safe access ladders with full length walkways and non-slip, corrosion resistant surfaces. Harness attachment points where working at heights is required.
   1.9. 500 mm manhole for inspection
   1.10. The tank is fitted with primary float ball knock out and material deflector on internal suction port.
   1.11. Vacuum tank isolation valve with automatic operation to isolate tank during driving to prevent on-road spillage.
   1.13. Pneumatic actuated three way diverter valve for saving water, nozzle protection.
   1.14. 500 mm manhole for inspection
   1.15. Adjustable bypass valve (Unloader) and safety valves for pump protection.
   1.16. The tank is designed for 4 bar pressure and is tested to 1.4 bar operation without pump cavitation.

2. **Hydraulic System**
   2.1. Low volume 30 lpm system.
   2.2. 70 liter hydraulic tank.
   2.3. Tipping, door open, clamps and hose reel operation with hydraulic system.
   2.4. Two hand control available on request.
   2.5. Two hydraulic drives provide ample power for quick filling operations.

3. **Accessories and Appliances**
   3.1. The truck is fitted with steel mudguards
   3.2. SABS tested underarm bumper with chevron and lights
   3.3. A Muck toe is installed to store dirty rims, PPE, etc.
   3.4. An 8 millimetre static earth line cable with clamp is fitted on a self-retracting hose reel. Cable length is 10 meters.
   3.5. A manual suction boom is fitted to the tank with hydraulic up and down movement, standard size for vacuum hose is 100 mm.
   3.6. Right hand hydraulically operated 180 degree, plugging hose reel assembly, size 3/4” (Maximum 150 meter hose) with manual hose guide, speed regulator hydraulic and pneumatic locking function.
   3.7. The vehicle comes with 120 meter high pressure hose and nozzle.
   3.8. Side mounted size with lockable storage box for nozzle, spanners for changing nozzles.

4. **Water Tank(s)**
   4.1. Water tank for the high pressure system has a 6000 liter capacity.
   4.2. The tanks are constructed from 304L stainless steel that offer superior corrosion resistance.
   4.3. Tanks are mounted to ensure equal weight distribution and prevent axle overloading.
   4.4. Tank is fitted with level indicators and low level cut out sensor.
   4.5. Inner baffles to prevent water surging during driving.
   4.6. 50 mm cam lock or hydraulic fitting for easy filling of the water tanks
   4.7. 50 mm tank vents to protect tank again sudden pressure changes during quick filling operations.

5. **Pump Drive(s)**
   5.1. Drive to the high pressure pump and vacuum pump is via a dual output split shaft gearbox.
   5.1.1. 120 kW dual output drive. 1.5 x 1.25 output ratio.
   5.1.2. 1:1.25 output ratio.
   5.1.3. 1080 Nm output torque.
   5.1.4. 25 kW drive through torque (35 kW intermittent drive through torque).
   5.1.5. Hot shut clutch for pump protection.
   5.2. Pneumatic in-cab switching with lock-out protection to prevent accidental switch over.
   5.3. Fast reacting emergency stop.

6. **Vacuum**
   6.1. Drive
   6.1.1. Self-terminating pulley system to protect pump and low maintenance.
   6.1.2. Bolt on drive guard for easy access and belt replacement.
   6.1.3. Inspection louvre on guard for inspection and ventilation.

7. **High pressure pump**
   7.1. Ingersoll Rand V3000 triple piston pump.
   7.2. 2 x 140 l/min maximum output at 1500 rpm (100% continuous)
   7.3. 100% continuous pressure.
   7.4. Adjustable bypass valve (Unloader) and safety valves for pump protection.
   7.5. Pneumatic actuated three way diverter valve for saving water, nozzle replacement, etc while in operation.

8. **Truck**
   8.1. Nissan Quon CWB 26-370 with 270 kW at 1800 rpm.
   8.2. 1754 Nm torque at 950 - 1450 rpm.
   8.3. Emissions: Euro II.
   8.4. Power Steering and exhaust brake.
   8.5. Air conditioned cab with radio and CD player.
   8.6. Digital multi-display with hand, trip and odo meters.
   8.7. Hour meter to monitor service cycles.
   8.8. Air suspension driver seat for comfort on long distance travelling.
   8.9. Seating for 3 persons (Driver, operator and assistant).
   8.10. Oil and fuel filters have been designed to be located around the bottom of the engine, all close together for easier maintenance.
   8.11. Front wheel drive.
   8.12. The entire power train has been designed to be more environmentally-friendly and improve fuel efficiency, at levels that clearly exceed the requirements of Euro III regulations.
   8.13. 7 speed manual transmission.
   8.14. The Quon CW cabin is mounted on a 4-point wide tread air suspension mounting system, which improves cabin stability and enhancing overall driving comfort. The design helps to limit the cabin from rolling when the truck is turning, and the anti-rollover geometry ensures stability of the cabin even under harsh braking.

9. **Safety**
   9.1. Fast reacting pneumatic e-stops for high pressure and vacuum operations.
   9.2. Mechanical safety hook to secure door in open position when cleaning or maintenance is required.
   9.3. Mechanical locking door clamps to prevent accidental door opening when travelling.
   9.4. Lock-out gearbox switch mechanism to prevent accidental gearbox switch over when driving.
   9.5. Walkways with harness attachment point for where working at heights are required.
   9.6. Automatic PTO lockout when driving.
   9.7. Automatic tank isolation valve when driving.
   9.8. Detailed decals to indicate component locations.
   9.9. Warning decals where necessary.

10. **Legal**
    10.2. Training include with unit.
    10.3. 6 month warranty on defects and workmanship.
    10.4. Illustrated maintenance and operations manual.

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**High volume pressure pumps for large diameter pipes. Solid cast iron construction and mounted on the side of the truck for easy inspection and maintenance.
1. Vacuum Tank
1.1. The vacuum tank has a 16 000 liter capacity, is of 316L Stainless Steel construction with a rim shell and 6% long-spherical dished ends. Rolled channel rings are installed for extra reinforcing to ensure structural integrity and long life.
1.2. Tank is hydraulically tipped with a 14 ton tipping cylinder, up to 50 degree structural integrity and long life.
1.3. Protection bars for all peripheral extrusions like valves, manholes, etc. ends. Rolled channel rings are installed for extra reinforcing to ensure safety hook to prevent accidental closing during tank cleaning and maintenance procedures.
1.4. The tank features a full opening rear door with hydraulic opening and liquid discharge operations, fitted with perrot-type couplings,
1.5. The tank is fitted with D150 PN16 ball valves at the back for suction and liquid discharge operations, fitted with perrot-type couplings,
1.6. The tank is fitted with 3100 PVDF ball valves at the back for suction and liquid discharge operations, fitted with perrot-type couplings,
1.7. Twin cyclone filtration system to trap carry-overs and excess material blanking with 12 mm drain valve and 90 degree elbow.
1.8. The tank door is fitted with swing ball floating level indicator indicating full and empty tank levels.
1.9. The tank is fitted with fixed spillage chutes at the back to limit spillage during dumping.
1.10. Two revolving strobe lights fitted on tank for real time visibility with a work light at the back for real time operation.
1.11. The tank is fitted with primary float ball knock out and material deflector on internal suction port.
1.12. Pneumatic tank isolation valve with automatic operation to isolate tank during driving to prevent on-road spillage.
1.13. Self-aligning vacuum tie-in pipe for low maintenance and to prevent blockages.
1.14. Easy and safe access ladders with full length walkways and non-slip, leak proof to clean machine after operation.
1.15. ADR certified manhole with pressure relief valve and rupture disc attachment points.
1.16. Walkway side provide ample space for client branding.
1.17. Hazard board holders with clips for quick board changing for different cargoes.
1.18. The tank is designed for 10 bar pressure and is tested to 4 1 bar.
1.19. NDT, x-ray, waterfill and pressure test are performed on tank prior to delivery.

2. Hydraulic System
2.1. Low volume 30 bpen system.
2.2. 70 litre hydraulic tank.
2.3. Automated system for clamp, door and safety hook operation. (1 button push control).
2.4. Push button control so that door can only be opened from appropriate operator positions to prevent the chance of injury in case of spillage.
2.5. Two hand control available on request.
2.6. Pneumatic control eliminates the need for electronic safety control
2.7. Lock-out when system not in use to protect against unintended movements of the system.
2.8. PTO drive lock-out system to prevent operation during driving.

3. Accessories and Auxiliaries
3.1. The truck is fitted with steel mudguards.
3.2. Fitted with 2 steel tool boxes to store PPE, material and fittings.
3.3. SABS tested undernum bumper with chevrons and lights.
3.4. A Muck toe is installed to store dirty fittings, PPE, etc.
3.5. An 8 millimetre static earth line cable with clamp is fitted on a self-retracting hose reel. Cable length in 10 meters.
3.6. 13 ton, 120 bar high pressure pump with lance and retractable hose reel to clean machine after operation.

4. Pump Drives(s)
4.1. 380 kW vertical split shaft geartbox drive.
4.1.1. 2500 Nm constant drive.
4.1.2. 25 kN drive through torque (35 kN intermittent drive through torque).
4.1.3. Synchronous geartbox switching.
4.1.4. Pneumatic in cab switching with lock out protection to prevent accidental switch over.
4.3. Fast reacting emergency stop.

5. Vacuum
5.1. Drive
5.1.1. Double horden shaft with bolt on shaft guard and access for inspection and grease maintenance.

5.2. Positive displacement blower
5.2.1. Tri lobe positive displacement blower.
5.2.2. 6500 cmh free air volume and up to 90 kPa (Gauge) continuous pressure.
5.2.3. Overheating protection for blower unit.
5.2.4. Continuous airjection cooling with silencer featuring removable sound absorbent material and cleanout function.
5.2.5. Centre frame mount for easy access and optimal weight distribution.
5.2.6. Re-actie/absorbent exhaust silencer with top discharge, sound absorbent material cleanout function.

5.3. Filtration
5.3.1. Stage 1
5.3.1.1. Deflection plates inside tank.
5.3.1.2. Stainless steel floating ball primary shut off.
5.3.2. Stage 2: High performance dual cyclone filtration system with automatic dumping.
5.3.3. Stage 3:
5.3.3.1. Bag filter unit.
5.3.3.2. Pulsating airjection cleaning.
5.3.3.3. 60 filter socks on mesh cages, 127 mm diameter by 1460 mm length to ensure big filtration area to prevent blockages.
5.3.3.4. Automatic material dumping.
5.3.3.5. Continuous filter monitor.
5.3.3.6. Anti-corrosive coating.
5.3.3.7. Top opening door for filter inspection and cleaning.
5.3.3.8. Side opening inspection doors.
5.3.4. Stage 4: Stainless steel mesh final filter.
5.3.5. Easy and safe access ladder to filter unit with harness attachment points.
5.3.6. Flanged pipe connections for easy cleaning and maintenance.

6. Truck
6.1. Iveco Trakker 8x8 with chassis extension.
6.2. 270 kW @ 1500 - 1800 rpm.
6.3. 1754 Nm torque at 950 - 1450 rpm.
6.4. Emissions Euro III.
6.5. ZF Manual Gearbox with automatic shifting.
6.6. Power Steering and exhaust brake.
6.7. Air conditioned cab with radio and CD player.
6.8. Digital multi-display with hout, trip and odo meters.
6.9. Hour meter to monitor service cycles.
6.10. Air suspension driver seat for comfort on long distance travelling.
6.11. The entire power train has been designed to be more environmentally friendly and improve fuel efficiency, at levels that clearly exceed the requirements of Euro III regulations.
6.12. The Iveco Trakker cabin is mounted on a 4-point wide tread air suspension mounting system, which improves cabin stability and enhancing overall driving comfort. The design helps to limit the cabin from rolling when the truck is turning, and the anti-rollover geometry ensures stability of the cabin even under harsh braking.

7. Safety
7.1. Fast reacting pneumatic e-stops for vacuum operation.
7.2. Mechanical safety hook to secure door in open position when cleaning or maintenance is required.
7.3. Mechanical locking door clamps to prevent accidental door opening when travelling.
7.4. Lock-out geartbox switch mechanism to prevent accidental gearbox switch-over when driving.
7.5. Walkways with harness attachment point for where working-at-heights are required.
7.6. Automatic PTO lockout when driving.
7.7. Automatic tank isolation valve when driving.
7.8. Detailed decals to indicate components and locations.
7.9. Warning decals where necessary.

8. Legal
8.2. Training include with unit.
8.3. 6 month warranty on defects and workmanship.
8.4. Illustrated maintenance and operations manual.

Jurup VPT series blowers with 3 lobe and air injection cooling maintains maximum vacuum for extended periods without over heating or losing efficiency due to excessive heat.
Liquid Ring.

**HPVR-2000**

**1. Vacuum Tank**

1.1. The vacuum tank has a 20,000 liter capacity, is of 316L Stainless Steel construction with a 2mm thick shell and 6% toro-spherical dished ends. Rolled channel rings are installed for extra reinforcing to ensure structural integrity and long life.

1.2. Tank tips hydraulically with a 14 ton tipping cylinder, up to 40 degree tipping angle. A burst valve is fitted for protection.

1.3. Protection bars for all peripheral extrusions like valves, manholes, etc.

1.4. The tank features a full opening rear door with hydraulic opening and high engine temperature.

1.5. Twin cyclone filtration system to trap carry-overs and excess material during over filling, knock-out boxes for easy inspection and material removal.

1.6. The tank is fitted with primary float ball knock-out and material sump for easy maintenance.

1.7. Walkway sides provide ample space for client branding.

1.8. WARNING DECALS WHERE NECESSARY.

1.9. The tank is fitted with stainless steel EPA Seal that is corrosion resistant and offers high mechanical wear resistance.

1.10. Two revolving strobe lights fitted on tank for night time visibility with a work light at the back for night time operation.

1.11. The tank is fitted with primary float ball knock-out and material sump for easy maintenance.

1.12. Pneumatic tank isolation valve with automatic operation to isolate tank during driving to prevent on-road spillage.

1.13. Self-aligning vacuum tie-in pipe for low maintenance and to prevent leakage.

1.14. Easy and safe access ladders with full length walkways and non-slip, corrosion resistant surfaces. Harness attachment points where working-at-heights are required.

1.15. ADR certified manhole with pressure relief valve and rupture disc protection.

1.16. Walkways provide ample space for client branding.

1.17. Hazard board holders with clips for quick board changing for different applications.

1.18. The tank is designed for 10 bar pressure and is tested to 1.4 bar.

1.19. NDT, X-ray, waterfill and pressure test are performed on tank prior to delivery.

**2. Hydraulic System**

2.1. Low volume 30 lpm system.

2.2. 70 liter hydraulic tank.

2.3. Automated system for clamp, door and safety hook operation.

2.4. Push button control so that door can only be opened from appropriate operator positions to prevent the chance of injury in case of spillage.

2.5. Two hand control available on request.

2.6. Pneumatic control eliminates the need for electronic safety control.

2.7. Lock-out when system not in use to protect against unintended movements of the system.

2.8. PTO drive lock-out system to prevent operation during driving.

**3. Accessories and Auxiliaries**

3.1. The trailer is fitted with steel mudguards.

3.2. Fitted with steel tool boxes to store PPE, material and fittings.

3.3. SASI tested underfloor bumper with chevron and lights.

3.4. Full length pipe rack machined from ground level.

3.5. A Muck box is installed to store dirty fittings, PPE, etc.

3.6. An 8 millimetre static earth line cable with clamp is fitted on a self-retacting hose reel. Cable length is 10 meters.

3.7. 13 mm, 120 bar high pressure pump with lance and retractable hose reel to clean machine after operation.

**4. Pump Drive(s)**


4.2. FW Murphy control panel with cut-out protection for low oil pressure and high engine temperature.

4.3. 40 liter diesel tank.

4.4. Fast reacting emergency stop.

**5. Vacuum**

5.1. Drive

5.1.1. Heavy duty reduction gearbox.

5.1.2. Bolt-on guard for easy access.

5.2. Liquid ring vacuum pump

5.2.1. 2200 cfm free air flow volume and up to 70 kPa (Gauge) continuous pressure.

5.2.2. Cast iron and steel construction.

5.2.3. Screened cyclone filtration system to trap carry-overs and excess material during operation.

5.3. Filtration

5.3.1. Heavy duty dual cyclone filtration unit with discharge boxes for material removal and inspection.

5.3.2. Flanged pipe connections for easy cleaning and maintenance.

5.4. Service liquid tank

5.4.1. 3000 liter capacity.

5.4.2. 4 mm mild steel construction.

5.4.3. Anti-corrosive coating inside.

5.4.4. Heavy duty patro-carbonate level viewing glass in steel casing.

5.4.5. 50 cm collar locking pint.

5.4.6. 75 mm drain valve with rear-end discharge.

5.4.7. Flanged pipe connections for easy access and maintenance.

**6. Safety**

6.1. Fast reacting pneumatic e-stops for vacuum operation.

6.2. Mechanical safety hook to secure door in open position when cleaning or maintenance is required.

6.3. Mechanical locking door clamps to prevent accidental door opening when travelling.

6.4. Walkways with harness attachment point for where working-at-heights are required.

6.5. Automatic PTO lockout when driving.

6.6. Automatic tank isolation valve when driving.

6.7. Detailed decals to indicate component locations.

6.8. Warning decals where necessary.

**7. Legal**


7.2. Training include with unit.

7.3. 6 month warranty on defects and workmanship.

7.4. Illustrated maintenance and operations manual.

**Technical Specifications**

**The HPVR-2000 Liquid Ring** is a stand-alone liquid ring vacuum unit for the client that needs to pick up tons, with a 20 m³ tank it features the largest in class payload, yet can also work independently from the horse in applications where required.
The HPVR-500 features a 12.5 m³ tank, 2500 liter service liquid tank for long continuous operation.

1. Vacuum Tank
1.1. The vacuum tank has a 12.500 liter capacity, is of mild steel construction with a 2mm shell and 6% toro-spherical dished-ends. Rolled channel rings are installed for extra reinforcing to ensure structural integrity and long life.
1.2. Tank tips hydraulically with a 14 ton tipping cylinder, up to 50 degree driving. The door is secured in the opening position by a mechanical clamps with mechanical locking to prevent accidental opening while safety hook to prevent accidental closing during tank cleaning and maintenance procedures.
1.3. The tank features a full opening rear door with hydraulic opening and adjustable hinges, the door fastens with four hydraulic operated clamps with mechanical locking to prevent accidental opening while driving. The door is secured in the opening position by a mechanical safety hook to prevent accidental closing during tank cleaning and maintenance procedures.
1.4. The tank door seals with a heavy duty EPDM seal that is corrosion resistant and offers high mechanical wear resistance.
1.5. The tank is fitted with D100 PN16 ball valves at the back for suction and liquid discharge operations, fitted with perrot-type couplings, to deliver.
1.6. The tank is fitted with flared spillage chutes at the back to inspect full and empty level in tank.
1.7. The tank is fitted with flanged spillage chutes at the back for easy cleaning and maintenance.
1.8. The tank door is fitted with high strength poly-carbonate sight glasses to inspect full and empty level in tank.
1.9. The tank is fitted with primary float ball knock out and material removal and inspection.
1.10. Pneumatic tank isolation valve with automatic operation to isolate tank during driving to prevent on-road spillage.
1.11. Self-aligning vacuum tie-in pipe for low maintenance and to prevent leakage.
1.12. Easy and safe access ladders with full length walkways and non-slip, corrosion resistant surfaces. Harness attachment points where working at heights is required.
1.13. Walkway sides provide ample space for client branding.
1.14. The tank is designed for 4 bar pressure and is tested to 1.4 bar.
1.15. NDT, 10 x-ray, waterfill and pressure test are performed on tank prior delivery.
1.16. Bolts and nuts are high tensile steel, all other accessories are galvanized steel.
1.17. The tank is fitted with self-aligning vacuum tie-in for pipe for low maintenance and to prevent leakage.

2. Hydraulic System
2.1. The truck is fitted with steel mudguards.
2.2. 70 liter hydraulic tank.
2.3. Tipping, door open, clamps, safety hook and hose reel operation with maintenance.
2.4. Two hand control available on request.
2.5. PTO drive lock-out system to prevent operation during driving.

3. Accessories and Auxiliaries
3.1. The truck is fitted with steel mudguards.
3.2. SABS tested underside bumper with chevron and lights.

4. Pump Drive(s)
4.1. Drive to the high pressure pump and vacuum pump is via a dual output split shaft gearbox.
4.1.1. 125 kW dual output drive.
4.1.2.1: 1.25 output ratio.
4.1.3. 1080 Nm output torque.
4.1.4. 25 kW drive through torque (35 kN intermittent drive through torque)
4.1.5. Helical/straight clutch for pump protection.

5. Vacuum
5.1. Drive
5.1.1. Self-tensioning pulley system to protect pump and low maintenance.
5.1.2. Bolt on drive guard for easy access and belt replacement.
5.1.3. Inspection louver on guard for inspection and ventilation.

5.2. Liquid ring vacuum pump
5.2.1.1200 cfm free air flow volume and up to -70 kPa (Gauge) continuous pressure.
5.2.2. Aluminium construction for weight saving (722 kg).
5.2.3. Adjustable cell aeration system with check valve.
5.2.4. Silencer for cell aeration system.
5.2.5. Side mount for low centre-of-gravity and weight distribution.
5.2.6. Screened scrubber box to protect pump against accidental carries-over damage.

5.3. Filtration
5.3.1. Heavy duty dual cyclone filtration unit with discharge boxes for material removal and inspection.
5.3.2. Flanged pipe connections for easy cleaning and maintenance.

5.4. Service liquid tank
5.4.1. 2000 liter capacity.
5.4.2. 4 mm mild steel construction.
5.4.3. Anti-corrosive coating inside.
5.4.4. Perrot style exhaust coupling for vapour removal when required.
5.4.5. Heavy duty poly carbonate level viewing glass in steel casing.
5.4.6. 500 mm manhole with seal and fastening device.
5.4.7. Easy and safe access ladder with harness attachment points where working at heights are required.
5.4.8. 50 mm camlock filling port.
5.4.9. 75 mm drain valve with rear-end discharge.
5.4.10. Flanged pipe connections for easy access and maintenance.

6. Truck
6.1. Nissan UD90 with 175 kW at 2800 rpm.
6.2. 660 Nm torque at 1800 rpm.
6.3. Power Steering and exhaust brake.
6.4. Hour meter to monitor service cycles.
6.5. Air suspension driver seat for comfort on long distance travelling.
6.6. 6 speed manual transmission.

7. Safety
7.1. Fast reacting pneumatic e-stops for high pressure and vacuum operations.
7.2. Mechanical safety hook to secure door in open position when cleaning or maintenance is required.
7.3. Mechanical locking door clamps to prevent accidental door opening when travelling.
7.4. Look-out gear box switch mechanism to prevent accidental gear box switch-over when driving.
7.5. Walkways with harness attachment point for where working at heights are required.
7.6. Automatic PTO lockout when driving.
7.7. Automatic tank isolation valve when driving.
7.8. Detailed decals to indicate component locations.
7.9. Warning decals where necessary.

8. Legal
8.2. Training include with unit.
8.3. 6 month warranty on defects and workmanship.
8.4. Illustrated maintenance and operations manual.

Our HPLR-1200 liquid ring pump features aluminum construction for light weight on the outside but with steel inside in all high wear areas. Seals and bearings are locally available sizes and we always have service exchange units on hand.
Mining solutions.

Highpoint Vacuum has highly specialised vacuum application solutions for the mining sector, whether it is above or underground. Using the latest technology shows in our products and many underground installations across South Africa.

Our mining solutions are ideally suited for applications in shaft sinking, cross cut cleaning, dam cleaning, belt cleaning, shaft bottom cleaning, on reef vacuum mining and ore recovery. Our machines are manufactured locally with spare parts and service teams in most areas.

HPLR-1200 Liquid Ring.

A compact 1200 cfm liquid ring unit with low power consumption. This unit is specifically built for mobility and areas with access restrictions. The unit features a very robust pump specifically designed for underground conditions. The unit is available in either skid- or wheel mounted for both trackless and conventional mines. The unit fits into most mine cages.

Technical Specifications

Ideal for x-cuts, dam cleaning and belt cleaning.
Maintains up to 10-15 tons per shift in various applications. Can be operated in parallel to increase suction volume.
Vertical suction distance up to 20 meters (up to 90 meters with multiple units in parallel).
Horizontal suction distance up to 150 meters depending on product.

Drive: 75 kW 3-phase motor
525 Volts.
100 Amps.
Star-Delta starting panel with overload protection.

Pump Vacuum: 1200 cfm and up to -90 kPa (G).

Dimensions: 2 400 x 1 200 x 1 600 mm.

Serviceability: Modular design and construction allows us to carry a range of exchange components and units.

The HPLR-1200 vacuum pump integrates proven experience with pump design and manufacturing to create a robust machine for underground applications.
HPLR-2200 Liquid Ring.

The backbone of our product range, the 2200cfm unit has been in production for over 10 years and continues to prove its versatility across the mining sector. The unit features a very robust pump specifically designed for underground conditions. The unit is available in either skid- or wheel mounted for both trackless and conventional mines. The unit fits into most mine cages.

**Technical Specifications**

- Ideal for x-cuts, panel cleaning without any product dilution (carbon based panels), belt cleaning, shaft bottoms.
- Maintains up to 10-15 tons per shift on panel cleaning. Can be operated in parallel to increase suction volume.
- Vertical suction distance up to 20 meters (up to 90 meters with multiple units in parallel).
- Horizontal suction distance up to 200 meters depending on product.
- **Drive:** 90 kW 3 phase motor.
  - 525 Volts.
  - 127 Amps.
  - Direct on line panel with overload protection.

Pump Vacuum: 2200 cfm and up to -80 kPa (G).
Dimensions: 3 000 x 1 300 x 1 600 mm.
Serviceability: Modular design and construction allows us to carry a range of exchange components and units.

HPLR-3000 Liquid Ring.

High powered unit for areas that require higher volumes of ore to be moved across greater distances, ideal for situations that require vertical lifts and on real vacuum mining. The unit features a very robust pump for underground conditions. The unit is available in either skid- or wheel mounted for both trackless and conventional mines. The unit is built on 2 platforms which fits into most cages so no need for slinging.

**Technical Specifications**

- Ideal for shaft bottoms, panel cleaning without any product dilution (carbon based panels), belt cleaning, shaft bottoms.
- Maintains up to 10-15 tons per shift on panel cleaning. Can be operated in parallel to increase suction volume.
- Vertical suction distance up to 70 meters.
- Horizontal suction distance up to 200 meters depending on product.
- **Drive:** 160 kW 3 phase motor.
  - 525 Volts.
  - 210 Amps.
  - Start delta panel with overload protection.

Pump Vacuum: 3200 cfm and up to -90 kPa (G).
Dimensions: 2 500 x 2 500 x 2 100 mm.
(Tramming dims 1250 x 2500 x 1 700 mm).
Serviceability: Modular design and construction allows us to carry a range of exchange components and units.

Proven for more than 10 years in underground applications for reliability and getting the job done. Solid design and quality manufacturing ensures that the HPLR-2200 is the leader in underground applications.

Our biggest offering to be used in underground applications. High efficiency with low maintenance.
Cassette Type Vacuum Unit.

High mobility and versatility. Diesel powered and self-contained, this unit continues to impress in the trackless sector where set-up time is critical. Tank size is 3 cubic metres but can be increased depending on what platform is used, for safety to the operators the rear door opens fully with on board hydraulic system. Clamps on the door has fail-safe mechanical lock that prevents accidental spillage while moving. The unit has an air-cooled turbo diesel engine driving the pump through a reduction gearbox.

**Technical Specifications**

- Ideal for cleaning trackless roadways, dams, tail end pulleys, spillages and mud rushes.
- The unit can be made to fit most UV’s (Fermel, etc).
- **Drive:** 110 kW Air cooled diesel engine.
  - 6 cylinder turbo.
  - Engine control panel with gauges and engine protection system.
  - Stainless steel diesel tank and hydraulic tanks.
  - Reduction gearbox pump drive.
- **Pump Vacuum:** 1200 cfm and up to -80 kPa (G).
- **Vacuum Tank:** 3m³ capacity, mild steel construction.
  - 6 mm shell.
  - Hydraulic opening door.
  - Hydraulic clamps with mechanical lock.
- Vacuum pump driven by our own compact reduction gearbox, eliminating the use of pulleys. Reliability and minimum maintenance required.

High Pressure Jetting Trailer.

Mobile diesel high pressure unit, easy to setup and ideally suited for plant cleaning. The unit is driven by a John Deere 6068 turbo diesel engine driving the pump via a reduction gearbox. Pumps can be configured from 200 to 2800 bar with flow from 40 lpm up to 240 lpm (Flow and pressure configured in combination). The unit is equipped with hoses, foot valve and lance. Buffer tank with low level cut out is also fitted for added protection. The unit is fitted on a heavy duty frame with tandem brakes axles and 16 inch wheels.

**Technical Specifications**

- **Drive:** John Deere 6068 H/J/4 Engine 151KW @ 1800 RPM.
  - Engine protection with cut out protection for low oil pressure and high engine temperature.
  - Stainless steel diesel tanks (2 x 70 liter's).
- **Pump:** Heavy duty triples plunger high pressure pump for 60 lpm @ 1000 bar (Standard). Unit can be scaled for different literages and pressures, engine rating will be adjusted accordingly.
  - Integrated reduction gear system to save space and weight.
  - 200 liters stainless steel buffer tank with lid.
  - 50 mm Anjet disk filter. 25 MPa pressure gauge.
  - Jetstream unloader valve.
  - Jetstream foot valve.
  - Jetstream HP gun and lance.

The high pressure pump is the heart of this unit. Highpoint Vacuum only use the best quality pumps right for your application.
Mobile Vacuum Bin Trailer.

Low cost solution for collecting and dumping material, minimal piping required and set up time is kept minimal. The unit has a fully opening rear door, with hydraulic tipping, door opening and door fastening. Suction and discharge ports are conveniently situated on the back of the unit. Connection ports are fitted on top and on front of unit for quick set-up and relocation. Walkways with climbing ladders are installed for safety of operators. The unit is fitted with off road tires and the heavy duty sub-frame makes it ideal for off-road and construction applications.

Technical Specifications

Tank:
- 8 - 10 m³ mild steel with 6 mm shell.
- Reinforcing rings.
- Hydraulic tipping.
- Hydraulic opening door.
- Hydraulic door clamps with mechanical lock.
- Walkways and manhole.
- Rear suction and discharge ports with DN 150 ball valves.

Chassis:
- Heavy duty sub frame.
- 6 ton axles with off road wheels.
- Pneumatic braking system.
- Fail safe braking system available.

Dimensions: 5 500 x 2 300 x 3 200 mm.
Serviceability: Modular design and construction allows us to carry a range of exchange components and units.

Mobile Vacuum Trailer.

Mobile diesel unit, easy to setup and ideally suited for plant clean ups. The unit is driven by a John Deere 4045 turbo diesel engine driving the pump via a reduction gearbox. Eliminating belts greatly reduces maintenance. The unit is fitted on a heavy duty frame with tandem brakes axles and 16 inch wheels.

Technical Specifications

Ideal for cleaning power stations, spillages and belts in plants. Can be used in conjunction with vacuum tankers and vacuum bin trailers.

The unit can easily be towed from one workplace to the next.

Drive:
- 80 kW Liquid cooled diesel engine.
- 4 cylinder turbo.
- Start panel with engine protection and gauges.
- Stainless steel diesel tank.
- Reduction gearbox pump drive.

Pump Vacuum:
- 1200 cfm and up to -80 kPa (G).

Chassis:
- Heavy duty sub frame.
- High speed axles with 16 inch wheels.
- Overrun braking system.
- Registered for on road use.

Dimensions: 4 800 x 2 100 x 2 100 mm.
Serviceability: Modular design and construction allows us to carry a range of exchange components and units.

Vacuum pump driven by our own compact reduction gearbox, eliminating the use of pulleys. Reliability and minimum maintenance required.
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