

WERNER



AMANZI RECYCLER



Established
88

ALL DETAILS AT A GLANCE

Built for Africa. Engineered for Endurance.

The Werner Amanzi Recycler represents the next evolution in sustainable sewer and stormwater cleaning. Designed and manufactured in South Africa, it combines robust engineering, intelligent water recycling technology, and long-lasting components to deliver the ultimate performance in efficiency, water conservation, and operational reliability.

Every element of the Amanzi Recycler has been engineered for performance, safety, and ease of operation.

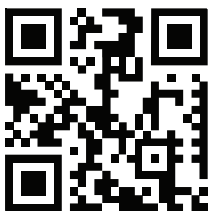
From precision hydraulic control systems to advanced touchscreen monitoring, each feature reflects Werner Pumps' dedication to quality and innovation.

Key Components Displayed:

- Rear hydraulic door locking system
- Control and pressure gauges
- Central digital touchscreen interface
- Emergency stop switch
- Pneumatic valve controls
- Compact hose reel system
- Lockable toolboxes

The Amanzi Recycler is a complete sewer-cleaning and water-recycling system, designed to simplify maintenance, increase uptime, and ensure operator safety and efficiency in demanding environments.





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): 9447 x 2600 x 3820 mm

Tank Superstructure

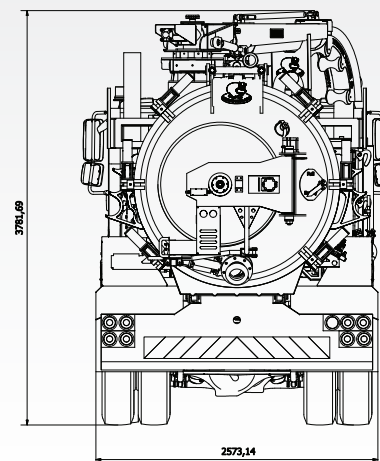
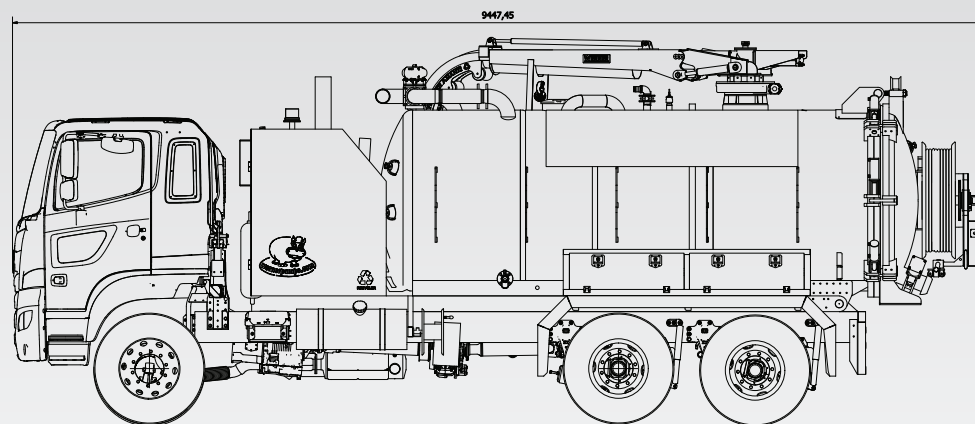
- Constructed from 304-grade stainless steel, 6 mm thickness for corrosion resistance
- Rear door with single hydraulic cylinder for secure, effortless opening
- Pneumatic charging/filling valve for rapid operation
- Sight glasses at the rear for easy water-level monitoring and level gauge
- Rotating safety beacon mounted on tank end
- Multistage hydraulic tank tilting system for complete discharge @ 45°
- 120 m x 1" lightweight rubber hose on hydraulic reel
- Customisable signage boards (up to 2450 x 550 mm) for branding

Control System

- Central 10" HD touchscreen control panel providing:
 - Live monitoring of pressure and vacuum levels
 - Component operating hours and status
 - Automatic error detection for simplified diagnostics
- Wireless multifunction remote control enables full interactive dialogue between operator and system
- Automatic optimisation of engine power output for fuel and noise efficiency
- Full valve bank operation accessible from control station

Hydraulic System

- HP pump and vacuum pump functions driven hydraulically via split shaft unit.
- The consumer optimized hydraulic system automatically controls the required engine power, reducing fuel consumption and noise emissions.





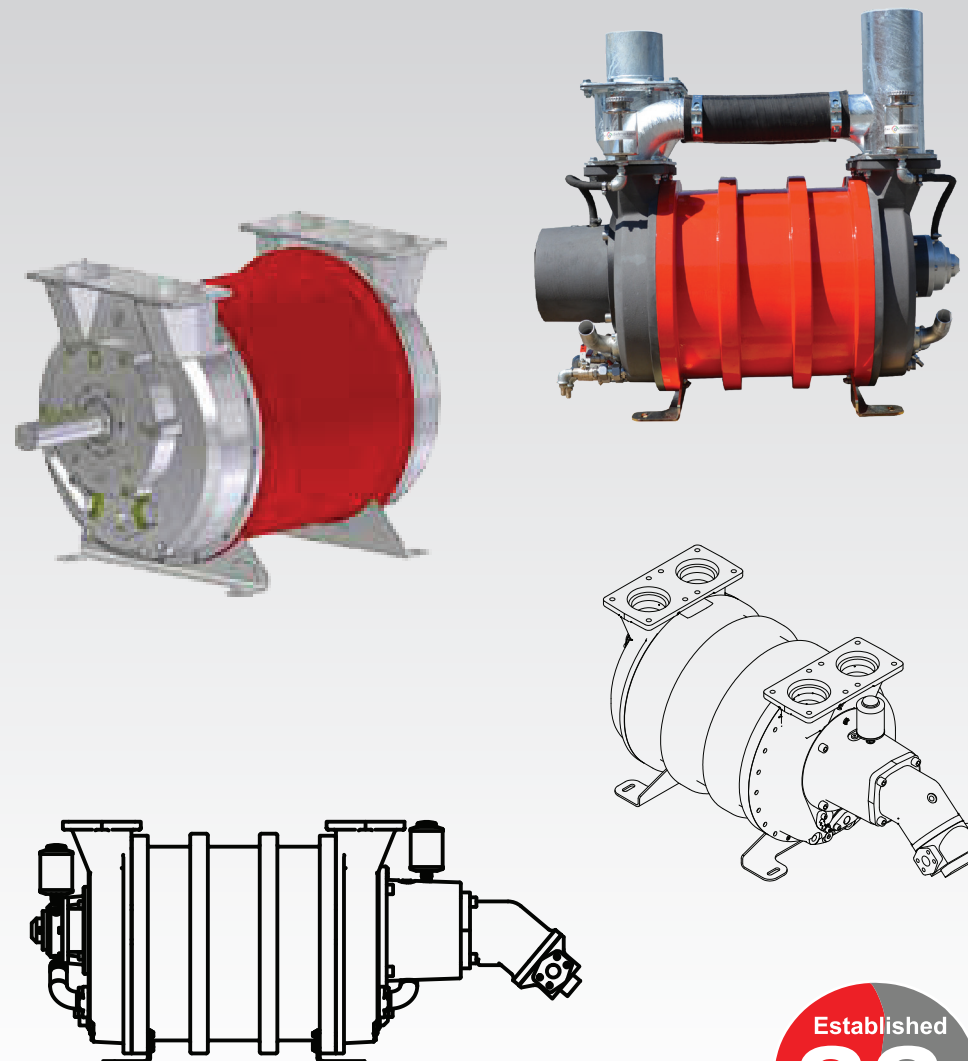
VACUUM SYSTEM

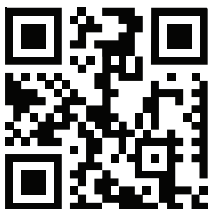
Vacuum System

- Werner liquid-ring vacuum pump with continuous 0.85 bar pressure
- Three suction stages: Low / Medium / High with eccentric rotor design generates a water ring that creates strong, consistent suction
- Pneumatic controlled suction and drain valves
- Pneumatic suction/pressure change-over valve
- Telescopic 360° boom, continuous rotation, 45° lift, 3.4 – 4.6 m reach, controlled from central panel
- High dirt resistance into water tank — suitable for wet and dry applications
- Integrated intercooler system maintains low service-water temperature during extended operation, preventing overheating and ensuring reliable long-term performance

Vacuum System Technical Data

Vacuum Pump Model	VPC 80		
Max. Air flow in m³/h	2100-3100 m³/h	Weight in Kg	408
Max. Air flow in cfm	1825 ft³/min	Weight in lbs	899
Max. Vacuum rate in %	85 %	Length mm	1247
Max. Vacuum rate in Hg	25.4	Length in	49.0
Max. Pressure in bar	0.8	Width mm	550
Max. Pressure in p.s.i	11.6	Width in	21.6
Max. power kW	95	Height mm	605
Max. power HP	127	Height in	23.8





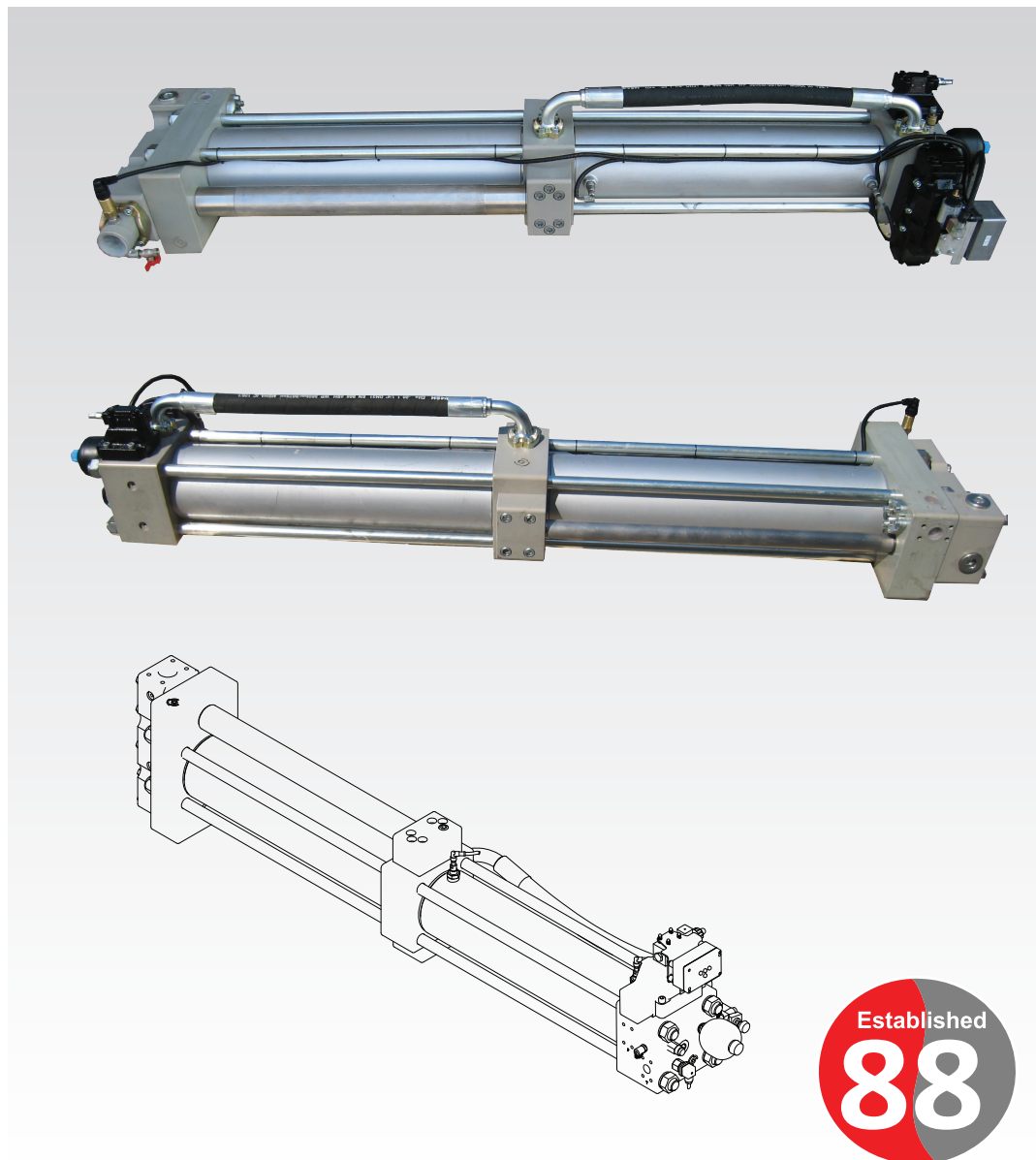
HIGH-PRESSURE SYSTEM

High Pressure System

- Hydraulically driven high-pressure pump converts oil pressure directly into water pressure
- Independent adjustment of pressure and flow rates
- Extremely slow piston speed (HPT) allows safe dry running and resistance to contaminated water
- Minimal moving parts = quiet operation and low maintenance
- Continuous filter cleaning via centrifugal pump and valve bank
- Dedicated water reservoir for reliable pressure supply
- Driven via truck's split shaft unit through a power- and pressure-controlled hydraulic pump
- Operating capacity 350 l/min @ 205 bar

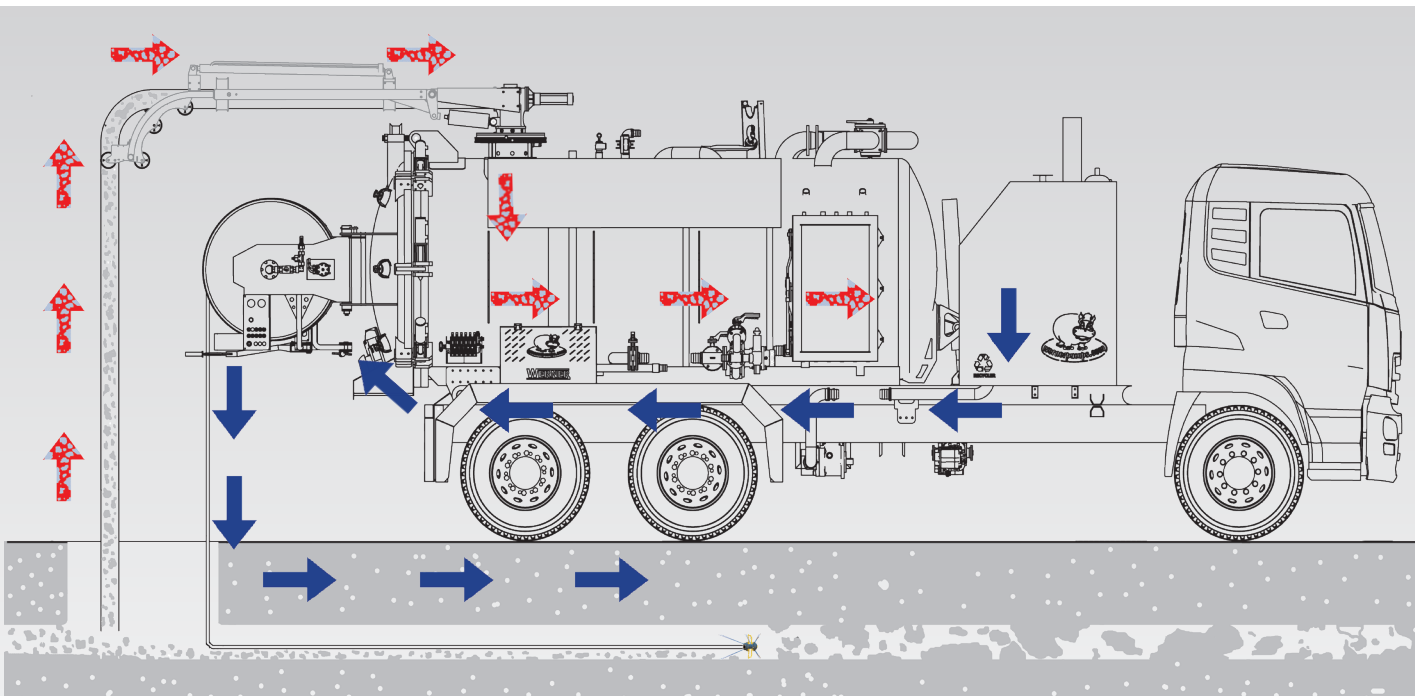
High Pressure System Technical Data

High Pressure Pump Model		HPT 70	
Max. Water flow in L/min	500	Length mm	2127
Max. Water flow in US gal/min	132	Length in	83.7
Max. Water pressure in Bar	200	Width mm	372
Max. Water pressure in p.s.i	2900	Width in	14.6
Max. power kW	190	Height mm	503
Max. power HP	254	Height in	19.8
Weight Kg	285		
Weight lbs	628		





WATER RECYCLING SYSTEM



Recycling

- The filtered water is immediately reused for continuous flushing — minimising water waste.

Combined Sewer Cleaning

- Jetting and vacuuming occur simultaneously for optimal efficiency.

Flushing

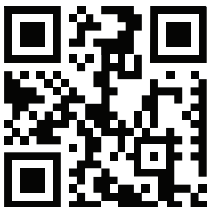
- A high-pressure hose and nozzle are inserted into the sewer line. Water jets dislodge and flush debris toward the manhole while propelling the hose forward.

Vacuuming

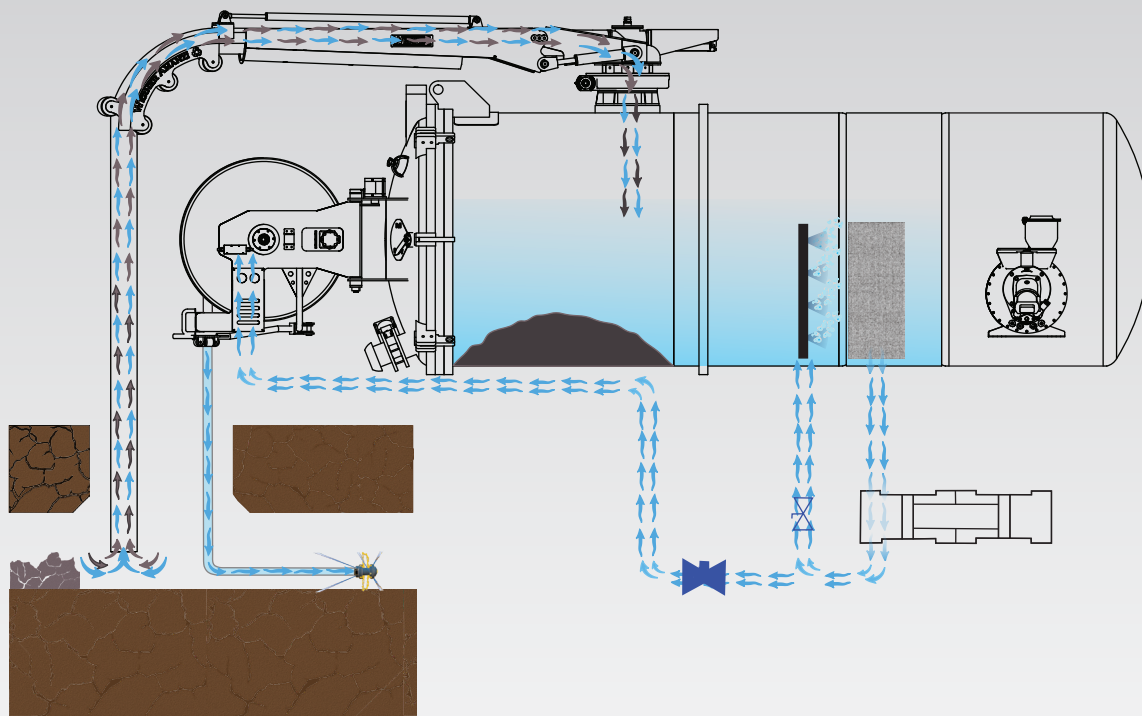
- Dislodged material is extracted via a 6" suction hose into the sludge tank, separating solids and water.

Water Recycling System

- Central to the system is a rotating oscillating filter drum built into the front of the sludge tank
- One-stage filtration eliminates the need for a settling basin
- The design allows continuous water recycling even under high grease or heavy sediment conditions
- Automatic back-flushing ensures consistent operation and self-cleaning
- Average water saving: ±61 million litres per year
- Fewer refilling and disposal runs = reduced emissions, downtime, and operating cost



WATER RECYCLING SYSTEM

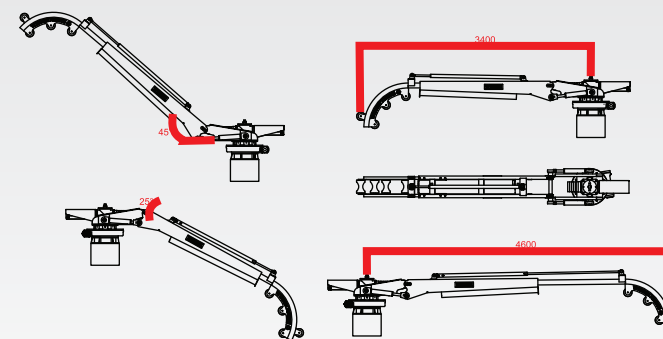


Water MAXIMIZER Recycling System

- A powerful yet user-friendly solution designed to maximise fresh water conservation and improve cleaning productivity.
 - Capable of performing simultaneous jetting and vacuuming
 - Automatic centrifugal pump cleaning cycle maintains filter efficiency
 - Oscillating drum, constructed from stainless steel
 - Integrated tank cleaning nozzle for self-maintenance

Suction Boom

- This versatile, operator-friendly boom design ensures maximum reach, flexibility, and control — enabling fast, safe operation in complex cleaning environments.
- Hydraulic lift and lower function (45° lift angle)
- Continuous 360° hydraulic rotation
- Telescopic reach: 3.4 – 4.6 m
- 6" (NW150) pneumatic stop valve and intake
- Operated via the central control panel and wireless remote





EQUIPMENT & ACCESSORIES

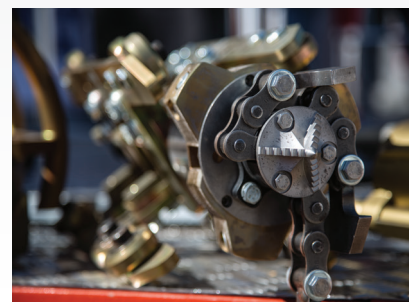
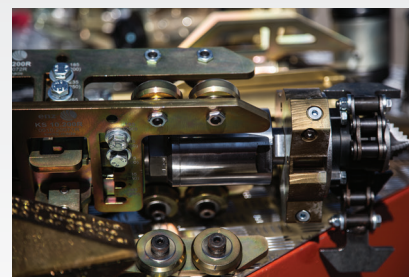
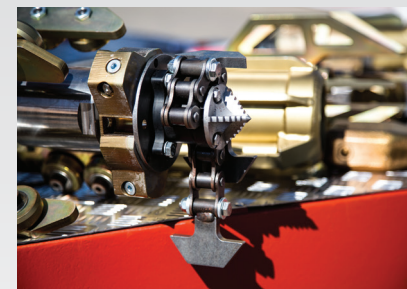
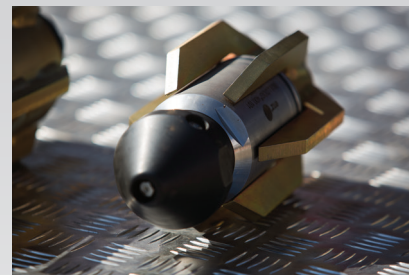
Nozzles & Hoses

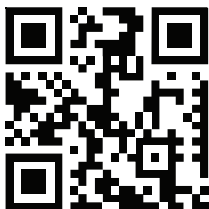
Werner Pumps supplies a full range of high-performance accessories designed to complement the Amanzi Recycler and enhance overall efficiency.

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 high-pressure jetting
and recycling solutions,

contact Werner South Africa Pumps & Equipment today.
Experience the highest levels of service,
innovation, and support in the industry.



SHEQ
NATIONAL CERT
Certified: ISO 9001 · ISO 14001



100%TM
SA BUILT

Managing Director:



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