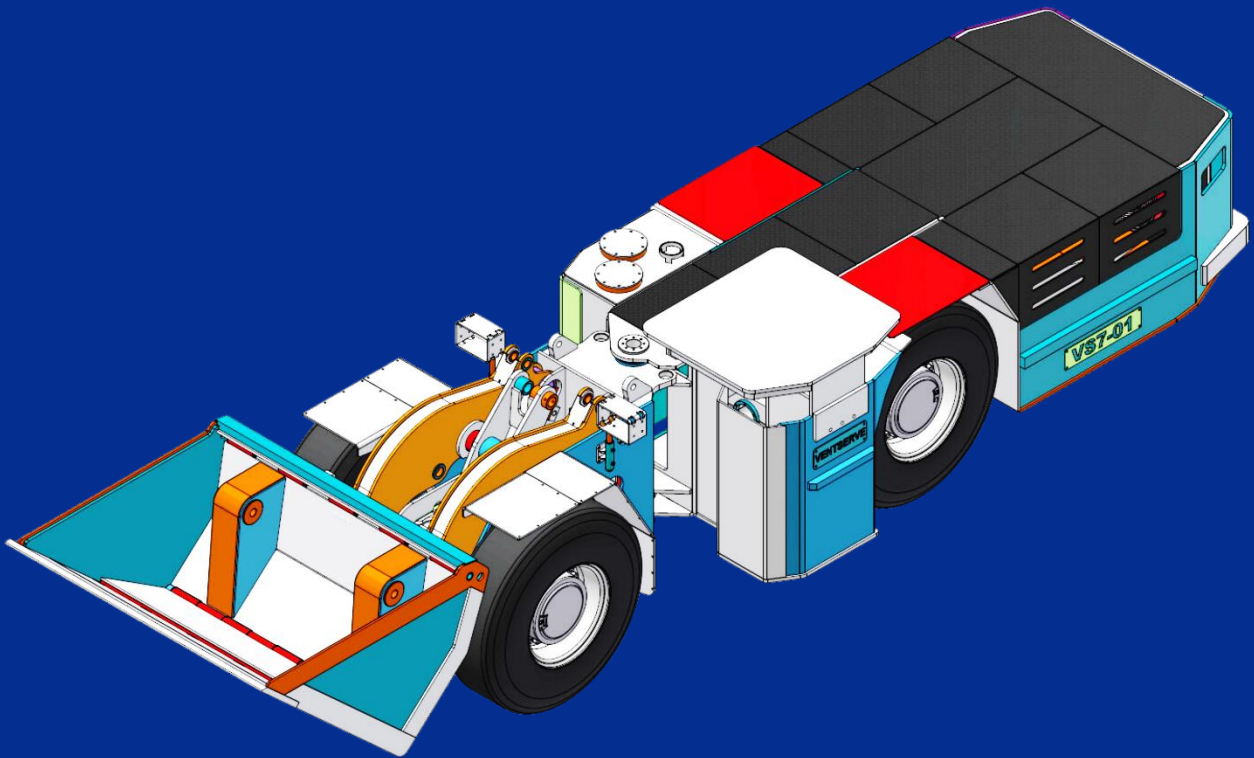


VENTSERVE **VS7 LS**

VENTSERVE VS7 LS FLAMEPROOF
UNDERGROUND LOADER

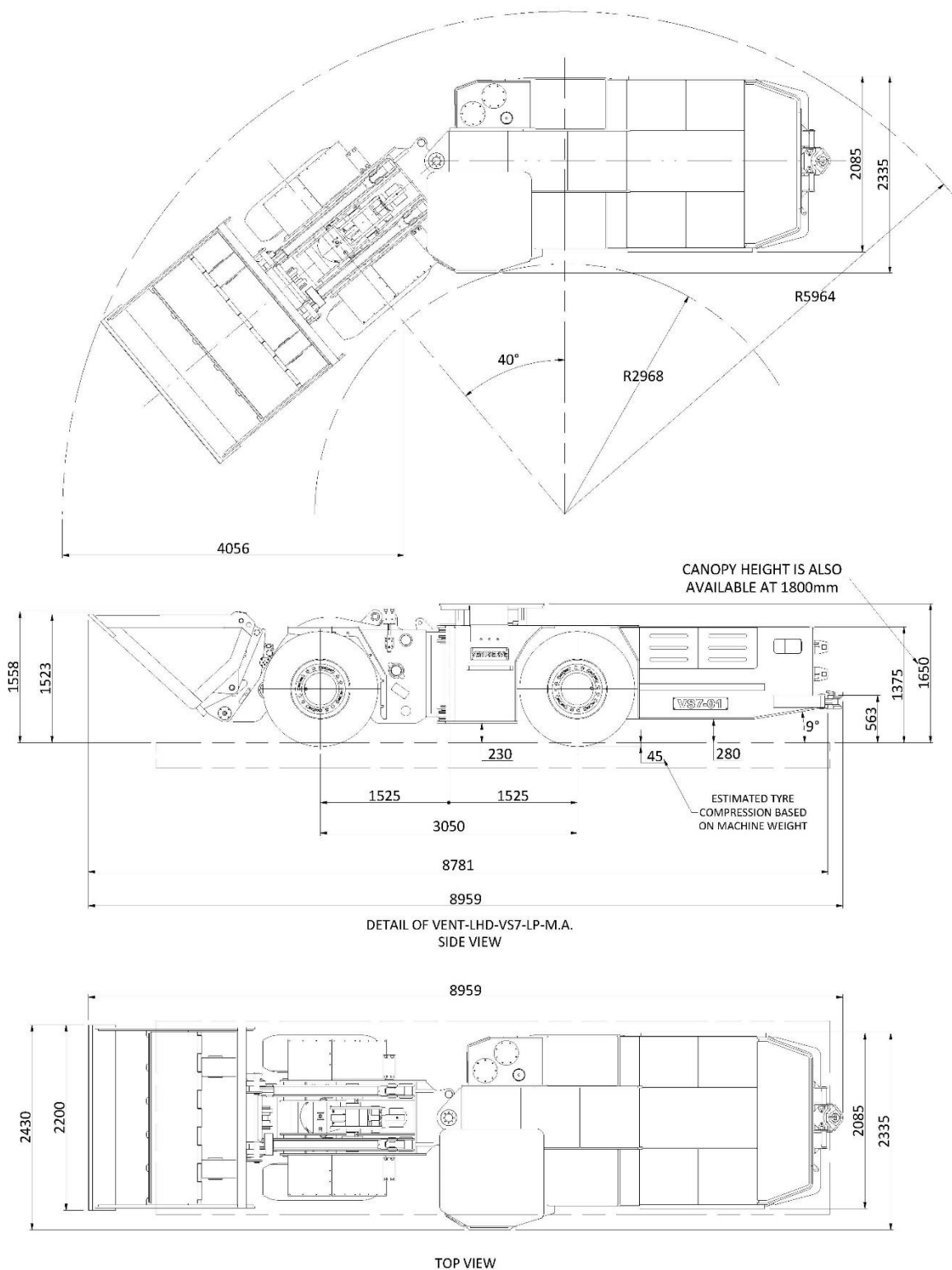
DATA SHEET



1.DATA SHEET & SPECIFICATIONS

DO NOT SCALE. IF IN DOUBT, ASK.

VS7LP - DATA SHEET



DIMENSIONS ARE APPROXIMATE

TECHNICAL SPECIFICATIONS

Capacities

Payload	7,000 kg
Standard Bucket	
Capacity Heaped	2,73m ³
Capacity Struck	2,22m ³

Service Capacities

Hydraulic Tank	267 Litres
Fuel Tank	200 Litres
Transmission/Converter Oil	20.8 Litres
Engine Oil	28 Litres
Engine Cooling System	64 Litres
Axle Oil (Total per Axle)	37.8 Litres
Exhaust Conditioner and Make-up Tank	343 Litres

Machine Weight

Operating Weight (including Canopy)	19,180kg
Ground Pressures	
Loader End	495 kPa
Power Module	280 kPa

ENGINE PACKAGE

Engine

Type	Diesel, Direct injection, Turbo, After Cooled
Make/Model	Perkins 1106C
Displacement	7.01 Litres
Maximum Power	162 kW @ 2200 rpm
Maximum Torque	900 Nm @ 1400 rpm
Starting Motor Type	Pneumatic
Displacement	7.01L

Engine Speeds

Low Idle	850 rpm
High Idle	2200 rpm
Full Load	2200 rpm

TECHNICAL SPECIFICATION (Cont.)**Stall Speeds**

Converter Stall	2,470 rpm
Combines Stall	2,450 rpm

Exhaust System

Type	Flameproof Water Bath Conditioner

Intake System

Type	Dry Paper with Dual Elements
Make	Donaldson Cyclopack

Fan Drive System

Type	Hydraulic Drive
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POWER TRAIN**Transmission**

Type	Modulated Powershift
Make/Model	R32000 Series
Speeds FWD & REV	4.5, 9.2, 14.6,
Gear Ratios	1 st 4.64, 2 nd 2.23, 3 rd 1.29,

Torque Converter

Type	Planetary
Make/Model	C323

Axles

Type	Planetary
Front Axle Make/Model	16D2149
Rear Axle Make/Model	16D2149
Differential Type Front	Posi-Torque
Differential Type Rear	Posi-Torque
Overall Ratio	26.76:1

TECHNICAL SPECIFICATION (Cont.)**Wheels**

Type	Alpha Rock Maulers Heavy Duty
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Tyres

Type	Foam Filled
Tyre Size	1685x490xx650/60 17.5 -25
Ply Rating	20

Tractive Effort (Theoretical)

1 st Gear	140.137KN
2 nd Gear	71.049KN
3 rd Gear	41.825KN
4 th Gear	Not Tested

Oscillation

Type	Rear Axle Bolster
Bearing	Hardened Steel
Degrees Up and Down from Horizontal	10 Degrees

Articulation

Bearing Type	Spherical Self Aligning
Bearing/Pin Material	Hardened Steel
Degrees of Turn Either Side	40 Degrees

Seating

Type	Swivel Seat with Suspension
Make/Model	T-Back Mining Vehicle Seat

Canopy F.O.P.S/R.O.P.S

Drivers Canopy Height (Std)	1650 mm
Optional Height	1800 mm

TECHNICAL SPECIFICATION (Cont.)**HYDRAULIC SYSTEM****Circuits**

Steering/Brakes	Closed Centre 172 Bar
Lift/Tilt	Closed Centre 220 Bar
P.T.O	Closed Centre 220 Bar
Tank Type	Sealed and Pressurised
Tank Pressure	0.5 Bar

Filtration

Suction	Washable 100 Mesh Strainer, Magnetic 0.40 micron
Return Filter	In tank, 10 micron Replaceable Element
Pressure	10 micron Replaceable Element
Offline Return	10 micron Replaceable Element

Main Pump

Type	Fixed Displacement Gear Dual
Output (1)	181 L/min @ 2,200 Engine rpm
Output (2)	35L/min @ 2,200 Engine rpm

Steering/Brake Pump

Type	Pressure Compensated Variable Displacement
Output	78 L/min @ 2,600 Engine rpm

Cylinders

Steering	Bore ID = 88.9 mm, Stroke = 406.4 mm, Rod OD = 50.8 mm
Lift	Bore ID = 165.1 mm, Stroke = 588.5 mm, Rod OD = 76.2 mm
Tilt	Bore ID = 165.1 mm, Stroke = 792 mm, Rod OD = 76.2 mm

Steering System

Type	Centre articulated, hydraulic with accumulator reserve
Control Valve	Closed center
Actuation	Orbital
Cylinder relief	186 bar

TECHNICAL SPECIFICATION (Cont.)**Steering Accumulator**

Type	Nitrogen Charged Piston
Quantity/Capacity	2 x 5 Litres

Bucket System

Control Valve	Open Centre
Actuation	Hydraulic Pilot Operated
Main Relief	172 Bar
Port Reliefs	186 Bar

BRAKES**Service Brakes**

Control Valve	Reverse Modulated
Actuation	Foot Pedal Reverse Modulating
Application Pressure	117-0 Bar
Type	Totally Enclosed, Liquid Cooled
Application	Spring Applied, Hydraulically Released
Location	At Each Wheel

Park Brakes

Actuation	Push Button
Application Pressure	117-0 Bar
Type	Totally Enclosed, Liquid Cooled
Application	Spring Applied, Hydraulically Released
Location	At Each Wheel

Brake Accumulator

Type	Nitrogen Charged Piston
Quantity/Capacity	1 x 5 Litres

TECHNICAL SPECIFICATION (Cont.)**Air System**

Governed pressure	8.6 Bar
Relief pressure	10.3 Bar
Air receiver capacity	90 Liters

Electrical System

Voltage	12 Volts
Alternator	Hydraulic Drive
Hour Meter	12V Flameproof
Reverse Siren	12 V Flameproof
Pressure Switch x 2	12V N/O Flameproof
Pressure Switch	12V N/C Flameproof
Flasher Light	12V Flameproof
Camera System (Optional)	12V Display, 1 x Camera Front, 1 x Camera Rear
Lighting	12V 4 x White (2 x Front & 2 x Rear) 2 x Red & 2 x Green