



MINING EQUIPMENT



COALTRAM CT10LP

Technical specification



UNDERGROUND COAL UTILITY VEHICLE

A yellow Coaltram CT10LP utility vehicle is parked in an industrial setting. The vehicle has "CT10LP" and "PPK" written on its side. The background shows a large industrial building and other vehicles.

COALTRAM CT10LP

Technical specification

The CT10LP is a reliable ten tonne lift capacity utility vehicle with an ergonomically designed operator's compartment for unparalleled productivity in any underground coal mine. Its low profile design allows for operation in mines with low seam heights.

Features

Load frame

- Low profile compact front frame
- Parallel boom configuration with crowd cylinder direct to master hitch.
- Long life pins with split-cap retention system.
- Boom support and lock for safe work under boom
- Various master hitch designs for interchanging attachments and implements.

Operator's compartment

Ergonomically and spaciouly designed compartment for maximum safety and minimal operator fatigue with:

- Maximised leg room in the operator's compartment due to the layout
- Comfortable operator's seat offering improved ergonomic positioning, body orientation and generous shoulder and hip room
- Three points of contact for safer mounting for entry and exit from operator's compartment.

Power frame

- Unique power train including an up-box, and a transmission with integral converter. This allows for more space in the operator's compartment, plus a low profile and short rear end
- A high power-to-weight ratio complemented by a fully integrated power train.

General

- Superior serviceability with centralised service areas
- Remote drain and fill points with ground level access
- Long-life roller bearing centre articulation hinge
- Anti-skid material at service access points
- Design operating ambient temperature 40°C (104°F)
- Central manual lubrication
- Hydraulic hoses and electric cables are well protected and routed for maximum life and durability.

Specifications

CAPACITIES – APPROXIMATE

SAE regulations

Lift Capacity - Master Hitch	10,000 kg
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SPEEDS AND TRACTIVE EFFORT APPROXIMATE

Standard vehicle configuration

Gear 1 – 5 KM/H	20,500 kg
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Gear 2 – 9 KM/H	10,065 kg
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Gear 3 – 15 KM/H	5,649 kg
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Gear 4 – 25 KM/H	3,049 kg
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Engine

- Caterpillar Tier III Origin: C7 ACERT
- Turbo charged / after cooled
- Rated power at 2200 rpm: 168 kW/225 hp
- Power rating in chassis: 154 kW
- Explosion-Protected Diesel Engine System ExDES - AS/NZS 3584.2
- Dry type air cleaner with primary and secondary elements
- Pneumatic starter via electronic interface
- Wet scrubber exhaust system
- Strangler/choker valve on engine air intake.

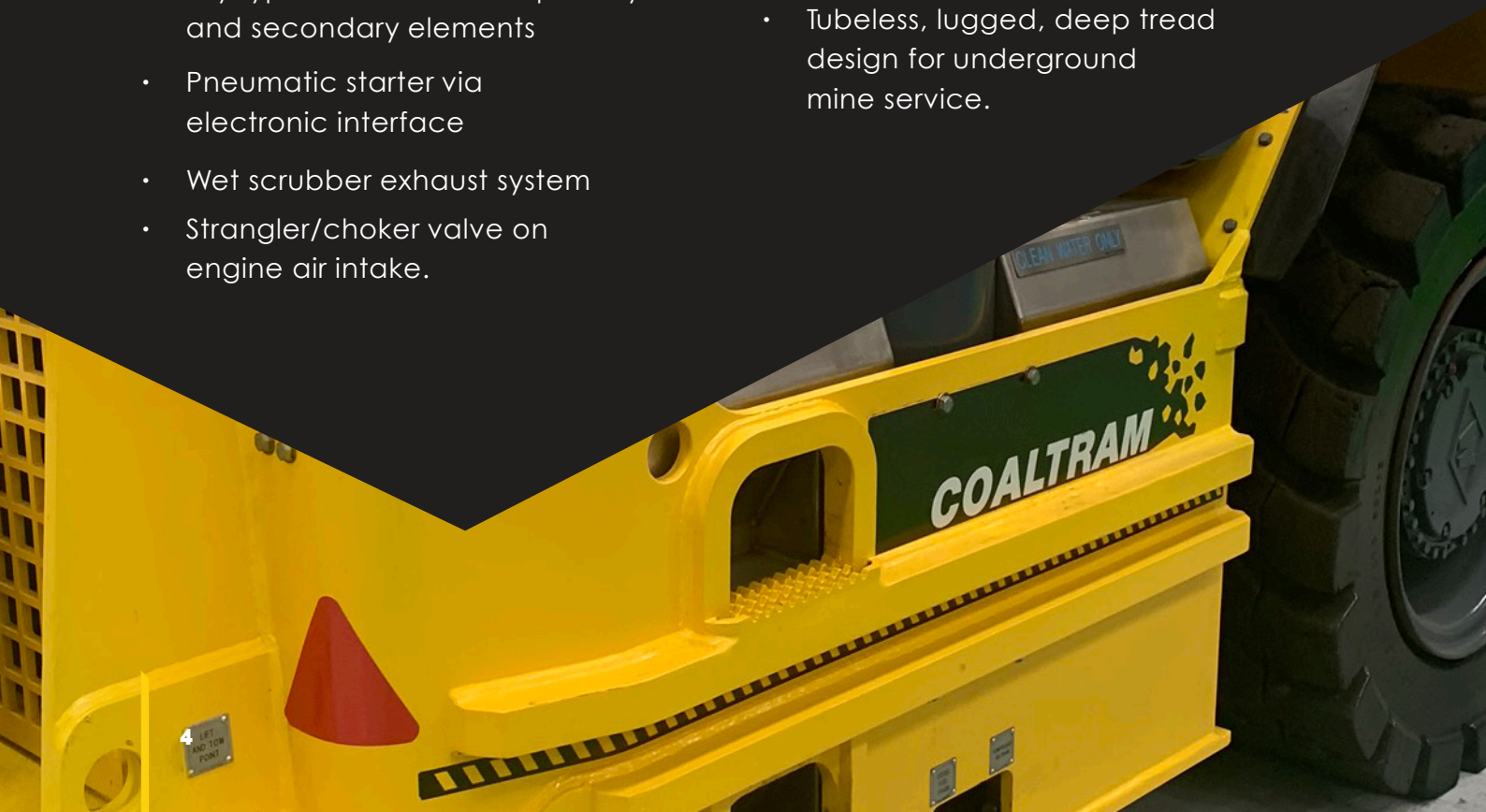
BUCKET

Standard coal eject bucket

Volume (heaped capacity)	2.6m ³
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Tyres

- Tyre size: 49 x 25, solid tyre with lugged tread
- Tubeless, lugged, deep tread design for underground mine service.





Transmission

- Dana: MHR 32000 Series
- Power shift with integral converter, modulated 4 speed shifting, forward/reverse.

Operator's compartment

- ROPS/FOPS canopy fully compliant AS2294 - ISO approved
- Side seated for bi-directional operation
- KAB seating; pneumatic, self-levelling, adjustable swivel and lumbar support
- Pilot operated joystick hydraulic control
- Dual steering systems: Wheel and stick steering control.

Hydraulic system

- Heavy duty gear type pumps
- Pneumatic hydraulic tank fill pump
- Articulated hydraulic power steering, pilot operated, dual operation stick steering and wheel control
- Hydraulic tank capacity: 160 litres
- System pressure: 20.7 MPa
- Filtration, return line: 12µm
- Filtration; pressure steering and auxiliary circuits: 10µm
- Cylinders: Double acting, chrome plated stems
- Steer cylinders (qty 2), diameter: 80 mm
- Hoist cylinders (qty 2), diameter: 180 mm with load lock and rapid yield valve
- Crowd cylinder (qty 1), diameter: 200 mm with load lock and rapid yield valve
- High flow PTO with electronic flow adjustment.

Upbox

- Superior: AC826V
- Power transmitted through a 1:1 gear ratio box.

Brakes

- Fully enclosed, force cooled, filtered, multiple wet discs at each wheel end
- Service, parking and emergency brakes: SAHR system.

Electrical system

- Voltage: 12V/24V
- Alternator: 1 x 12V, 1 x 24V flameproof with integral circuit protection
- Lighting: 4 x 35W halogen or PPK Electrics high efficiency LED headlights
- Electronic management system with operator interface display
- Audible and visual warn, de-rate and shutdown safety circuit.

Axles

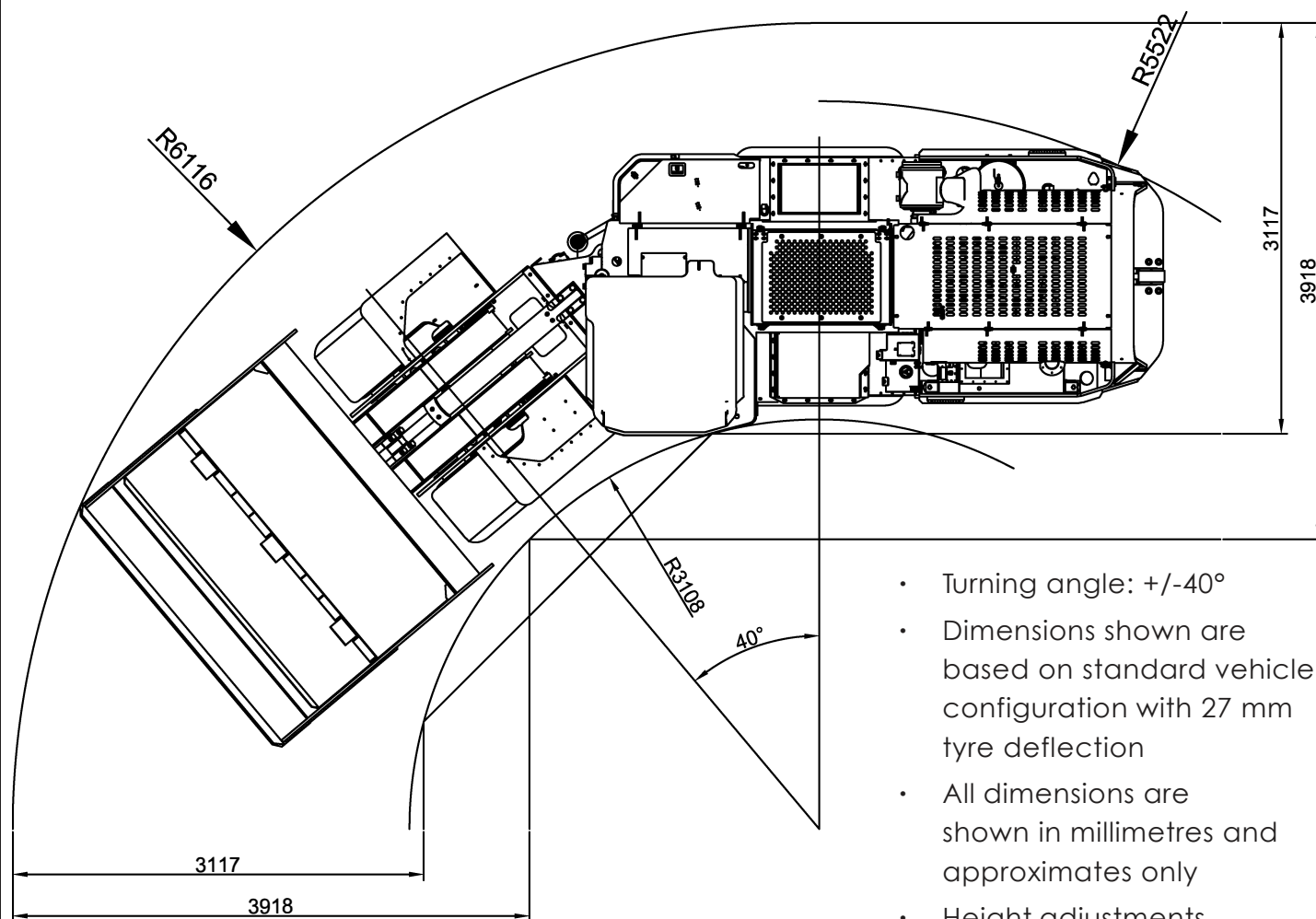
- Rock Tough: Model 406
- Spiral bevel differential, full floating, planetary wheel end drive
- Front and rear differentials: No spin
- Rear axle trunnion mounted
- Degree of axle oscillation: 14° (7° on each side).

Water system

- Scrubber water header tank: 140 litres.

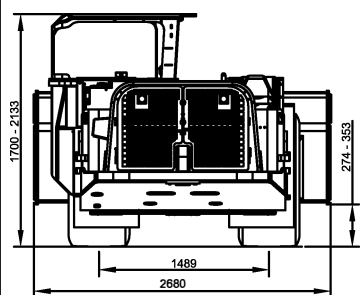
Fuel

- Fuel consumption (full power): 40.5 kg/hr
- Fuel consumption (typical): 23.0 kg/hr
- Fuel tank capacity: 145 litres.

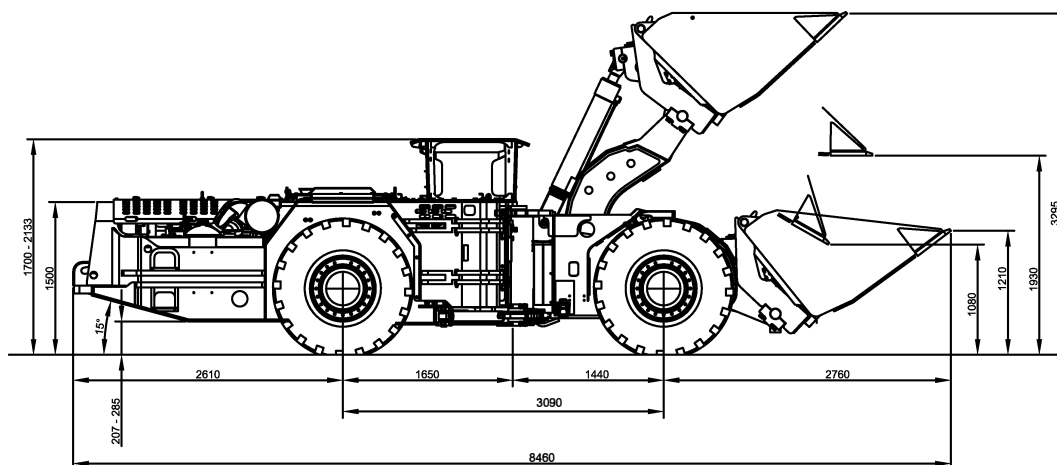


- Turning angle: +/-40°
- Dimensions shown are based on standard vehicle configuration with 27 mm tyre deflection
- All dimensions are shown in millimetres and approximates only
- Height adjustments available in 25 mm increments down to 1700 mm.

Rear view



Bucket lift heights view



Optional equipment

Some optional equipment may be mandatory in certain regions of operation.

Main frame

- Optional towing hitches
- Engineer rated and certified attachments/implements
- Various rock buckets - fixed / pinned direct or detachable via a master hitch
- Lower machine heights
- Larger buckets
- Optional master hitch designs PPK's KAT and others.

Ergonomics

- Nondual steering - wheel or stick control only
- Generous well-appointed cabin.

System

- Fire suppression system
- Auto-lube greasing system.

Tyres

- Foam fill, inserts, pneumatic or pneumatic/water tyres.

Hydraulic system

- Full burst protection on hydraulic hoses.

Electrical

- Methane monitoring system
- Flame proof cameras and monitor
- Additional system temperature sensors
- Wireless / Wi-Fi technology.

Dimensions and weights

- Approximate weight: 18,200 kg
- Axle load, front: 8,140 kg
- Axle load, rear: 10,140 kg.

Power unit

- Exhaust particulate filtration.

Dimensions are approximate only.
All dimensions are shown in millimetres.

** Standard equipped vehicle 49 x25 solid tyres with lugged tread and QDS master hitch, less bucket/attachment*



WARNING PARTS
DO NOT STRANGLER /
CHOKED NECK
CAUTION
NEVER FUEL ONLY
DANGER MAY OCCUR

DIESEL FUEL

CLEAN WATER ONLY

LHM414 COALTRAM

FUEL
FILL
OPEN



MINING EQUIPMENT

we've got it covered

OEM • MAINTENANCE • SPARES

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