

# PPK

MINING EQUIPMENT

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## Coaltram CT10

Technical specification



**UNDERGROUND COAL UTILITY VEHICLE**



# Coaltram CT10

## Technical specification

The CT10 is a reliable ten tonne lift capacity utility vehicle with an ergonomically designed operator's compartment for unparalleled productivity in any underground coal mine.

# Features

## Load frame

- A Z-bar front end for efficient high duty cycles
- Easy to change components with split-cap pin 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	
	11,200 kg
600mm	10,000 kg

SPEEDS AND TRACTIVE EFFORT APPROXIMATE	
Standard vehicle configuration	
Gear 1 – 5 KM/H	20,500 kg
Gear 2 – 9 KM/H	10,065 kg
Gear 3 – 15 KM/H	5,649 kg
Gear 4 – 25 KM/H	3,049 kg

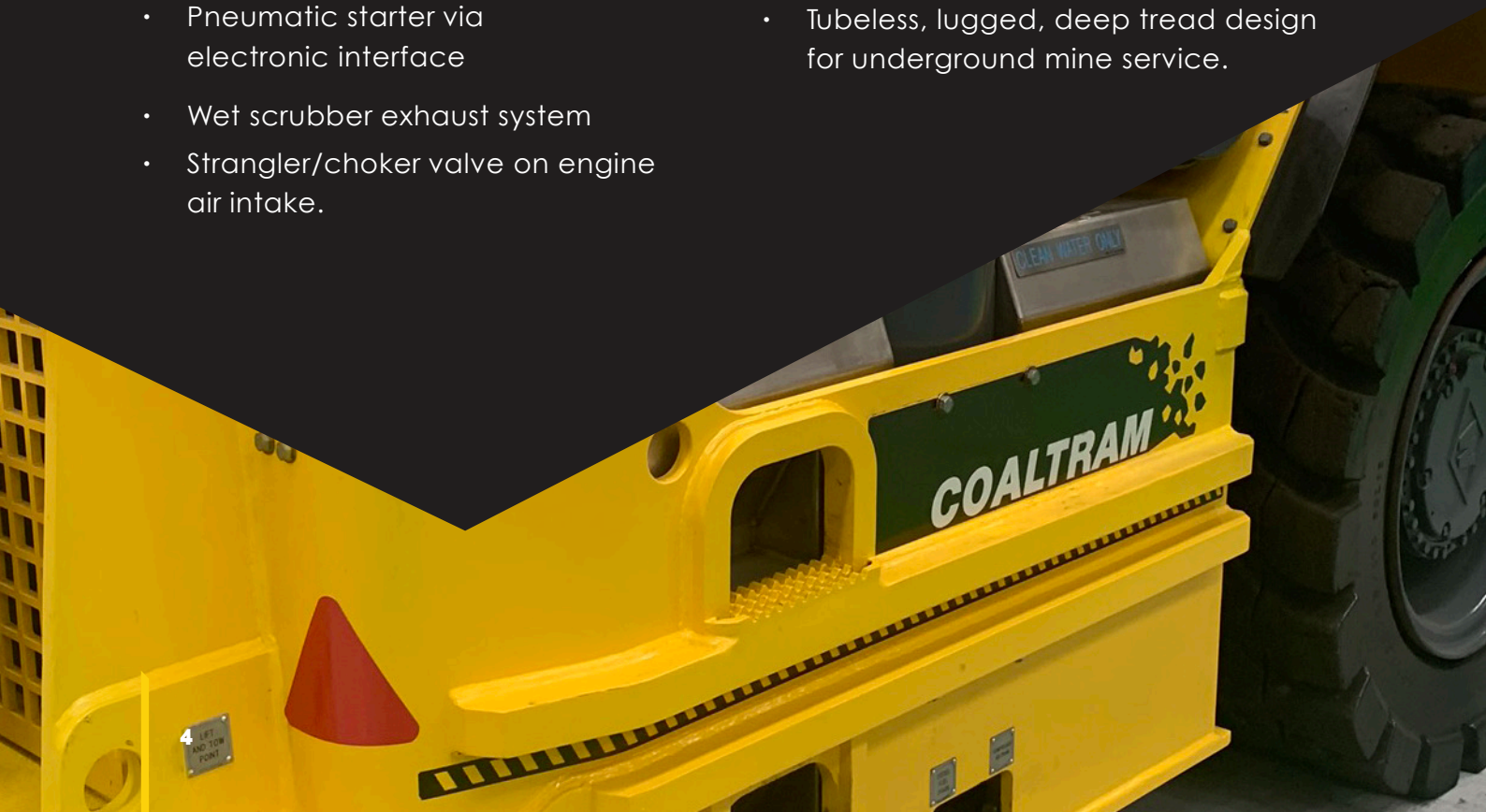
## Engine

- 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)	3.0 m <sup>3</sup>

## 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: 160 mm with load lock and rapid yield valve
- Crowd cylinder (qty 1), diameter: 180 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

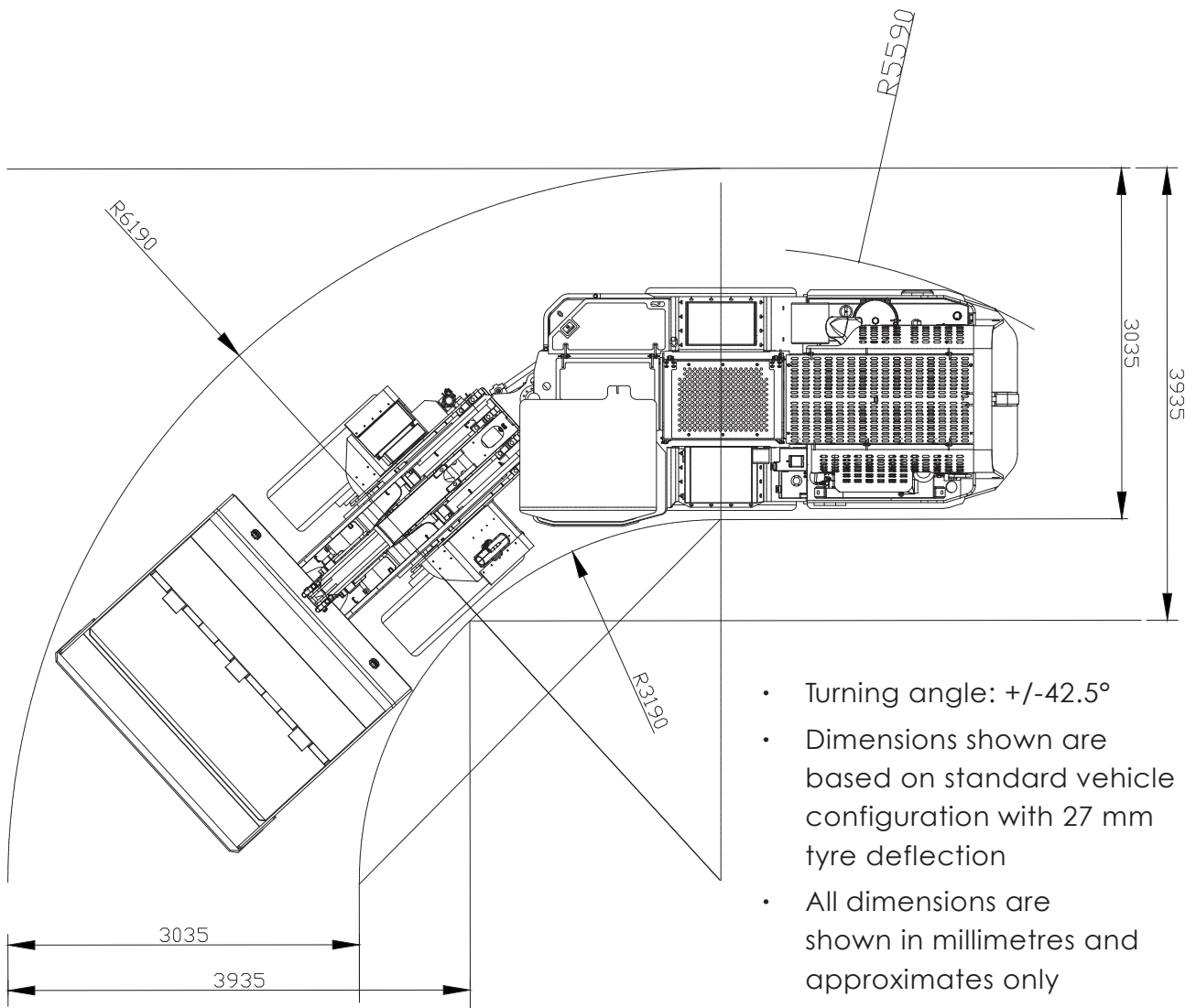
- Rock Tough: Model 406
- Spiral bevel differential, full floating, planetary wheel end drive
- Front and rear differentials: No spin
- Rear axle trunnion mounted
- Degree of axle oscillation: 14° (7° on each side).

## Water system

- Scrubber water header tank: 140 litres.

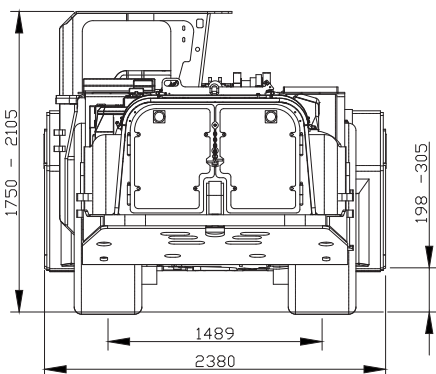
## Fuel

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

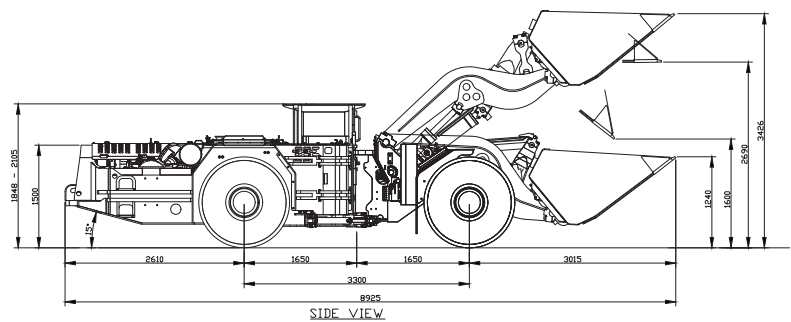


- Turning angle: +/-42.5°
- Dimensions shown are based on standard vehicle configuration with 27 mm tyre deflection
- All dimensions are shown in millimetres and approximates only
- Height adjustments available in 25 mm increments down to 1700 mm.

### 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: 18,280 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*







MINING EQUIPMENT

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