

>> Gross Horsepower: 2000hp

>> Payload: 172-186t

NTE 200

Mining Truck

>> ENGINE

Manufacturer	Cummins	MTU
Model	K2000E	12V4000C23R
Operating Cycle	4	4
Number of Cylinders	16	12
Rated Power (SAE)	1490kW (2000hp)	1510kw (2025hp)
Flywheel HP	1380kW (1850hp)	1400kw (1875hp)
Weight Dry	5292 kg	7000 kg

Flywheel HP is the rated horsepower at the engine flywheel minus the average accessory losses. Accessory losses include radiator fan, battery charging alternator and pumps. Rating based on standard conditions in accordance with ISO 3046 and/(or) SAE J 1995.

>> MAIN FRAME

The frame features a straight rail and tubular center cross beam design to eliminate sources of stress concentration. Main frame box section rails are designed to reduce stress and increase frame fatigue life. The tubular center cross beam structure enhances the torsional resistance. A submerged arc welding process further reduces stress with full-penetration welded joints, which increases frame fatigue life.

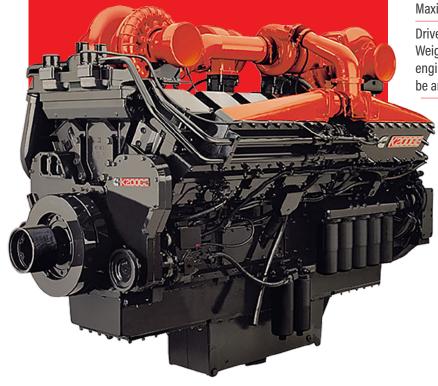


>> GE200AC™ DRIVE

Alternator	5GTA22W
Wheel Motor	5GEB38A
Control Group	17KG527 (IGBT)
Resistor Grid	17EM137
Gear Ratio	26.825:1
Max Speed	56.3 km/g (35mph)
Number of Resistor	9
Maximum Continuous Rating	1864kW (2500hp)

Drive system application depends on the Vehicle Gross Weight, haul road grade and length, rolling resistance, engine HP and Other parameters. Each of application must be analyzed to insure optimum truck specifications.

The electric retarding system is equipped with aircooled grid, which can provide efficient, safe and reliable slow force for the electric retarding system.





SAFETY

The integrated ROPS (Rollover Protective Structure)/FOPS (Falling Objects Protective Structure) cab design and testing keeps the driver safe during hauling and loading. A traction control and anti-slip systems, assists the operator in slippery or dangerous conditions.

COMFORT

Variable settings of the nitrogen-over-oil cylindrical suspension struts and independent front beam axle ensure a smooth, comfortable ride. The cab features include, generous cab space, back-lit dashboard, pressurized and filtered intake air system, two full-size comfit seats with full 180 degrees of vision provides a high level of driver 's comfort that leads to higher productivity.

>> CAB

Integral FOPS/ROPS (Falling-object protective structures / Roll-over protective Structure) Cab meets requirements of ISO 3449/ISO 3471. Features include deluxe interior, tinted safety glass, curved windshield for added field of view, tilt and telescopic steering wheel, heater and defroster and pressurized and filtered intake air for driver comfort. Sound exposure is at an equivalent sound level of less than 75 dB(A) and is tested per SAE J 1166 with doors and windows closed.



POWER

Equipped with Cummins K2000E and MTU 12V4000C23R engine options and systems which are specifically designed for surface mining. The power package features high starting torque, high temperature resistant ability, low noise, ease of maintenance and lower operating costs.

RELIABILITY

The specifically designed beam axle, main frame, dump body and other structures integrated with industry leading hydraulic and electrical components make the NTE200 running reliable and durable. The double cooling motor design makes the system operating highly efficient, safe and reliable. Pre-Lube system and low temperature starting protection could prevent engine from unexpected failure, which increase engine reliability and durability.

SUPER STRUCTURE

bottom protects critical components from road and mud damage. Deck components are located to optimize driver visibility and access to the top of the engine, piping and electrical wiring allows for ease of maintenance.

FRONT AXLE

The axle is pin connected to the main frame with four longitudinal rods, two suspensions and a lateral stabilizer rod which reduces the stress acting on the main frame. The tyres maintain alignment regardless of suspension stroke and extends tyre life.



TYRES

Rock deep tread type tubeless

Standard: 37.00R57** Radial Rim Size: 27.00×57

Options: 40.00R57** Radial Rim Size: 29.00×57

NTE200 AURY

>> AXLE BOX

The optimal designed axle box reduces structure weight without compromising strength. Nose-cone attachment features a patented, large two-piece bearing, which reduces contact pressure to less than 9653 kPa and extends bearing life.



>> SUSPENSION

Four nitrogen-over-oil cylindrical suspension struts provide maximum driver comfort and minimize the impact on the frame during loading and running on the uneven surfaces and maximisers truck performance.

Stroke: Front: 355 mm (14 inch)

Rear: 275 mm (10.75 inch)

Rear Axle Oscillation: ±10°

>> HOIST SYSTEM

The electric control hoist system operates two, two-way, two-level hoist cylinders to realize the lifting, dropping, holding and floating functions of the body. The system is powered by a dual hydraulic pump that provides sufficient power to the system.

Power up Loaded: 20s

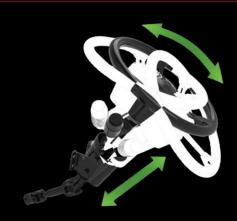
Power down: 13s

Filtration: High-pressure units with 6 micron (nominal) filtration assure the hydraulic system is reliable and safe. Hydraulic tank inlet contains a strainer with 100 mesh screening.

>> STEERING SYSTEM

Full-time, medium - closed, load-sensing system operating two double-acting cylinders, supplied by accumulators that are replenished by a pressure-compensated piston pump. Auxiliary steering supplied by accumulator and meets ISO 5010.

Minimum turning radius. (SAE): 13.6 m



>> DUMP BODY

A horizontal bolster deep-V floor design lowers the center of gravity of the truck and improves maneuverability. Compared with horizontal floor body, deep-V floor design delivers stability and strength. Standard rock body incorporates 19 mm (3/4") bottom plate with 10 mm (3/8") side plate and 13 mm (1/2") front plate.

Struck (SAE): 92 m3

Heaped (SAE 2:1): 123 m3

Working (2: 1): 106 m³

Optional body available based on material density and payload rating.



>> BRAKE SYSTEM

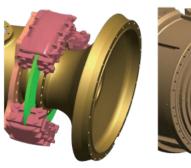
Hydraulic brake actuation system features: service brakes (foot or hand operated), secondary brake (foot or hand operated), loading brake and spring apply, hydraulically released parking brake. Brake accumulators (3 unit) provide effective brake force under emergency situation. The system would alarm when system pressure drops below 2100 PSI.

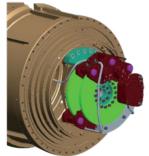
Front Brakes - 3 calipers per wheel on 1168 mm (39") wheel speed discs.

Rear Brakes — 2 calipers per wheel on two 511 mm (20.125") armature speed discs.

Park Brakes — spring apply, hydraulic release.

Braking system meets the requirements of ISO 3450.





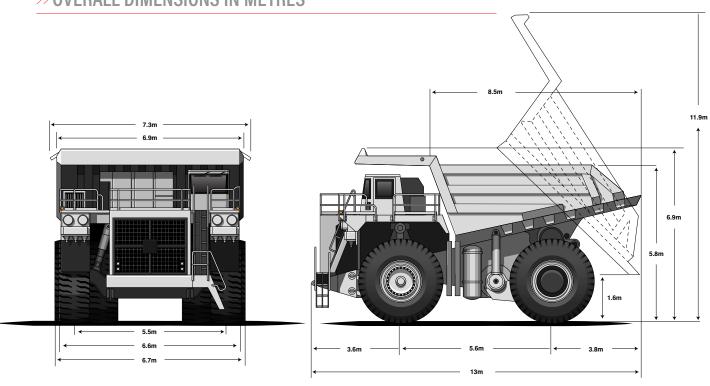
>> 24V ELECTRICAL SYSTEM

24 Volt system powered by six (6) twelve (12) volt batteries (3 series pairs in parallel). Battery isolation switch standard. Equipped with manual reset circuit breaker.

Lighting	24VDC	
Starting	24VDC	
Alternator	260Amp with voltage regulator	

Provided a unique diagnostic software which can quickly and accurately find the 24V system fault.

>> OVERALL DIMENSIONS IN METRES





>> STANDARD EQUIPMENT

CAB	INSTRUMENTATION GROUP	Hand Brake Control	
Acoustic lining	Engine tachometer	Retardation Control	
Door locks	Fuel gauge	Hydraulic control casing	
Floor mat	Hour meter	Hydraulic tank	
ROPS/FOPS protection	Engine oil pressure gauge	Fuel level	
Electric window	Speedometer	Coolant sight glass nut	
A/C /heater/Defroster	Voltmeter	Fuel sight gauge nut	
Interior light	Engine coolant temperature	Engine pre-lube	
Illuminative panel	Flashing indicator	Low-temp start- protection	
Air Suspension seat	Air Cleaner Restriction	Dry disc brake/Wet brake	
Passenger seat	Warning indicator light/buzzer	Exhaust muffler	
Seat belts	Check engine	HID Lamp	
Steering column, adjustable	Engine stop	Reversing light/buzzer	
Sun visor	Cooling duct pressure	Steer/Retard/Running brake	
Tinted glass	Low fuel level	Hoist/Reverse interlocking	
Wipers/washers	High Hydraulic temperature	Hoist/High speed interlocking	
Compartment	Low brake pressure	Parking brake	
Radio and MP3 player	Low hydraulic nil level	Two-circuit brake	
CONTROLS	Low steering pressure	Rear View Mirrors	
	Electric system fault	Rock Ejectors	
Block switch	Low coolant level	Body safety chains	
Selector	Parking brake	Engine maintenance ladders	
Headlight/taillight switch	Body hoist	Radiator, changeable core	
Key switch, power	Headlight beam	Hydraulic filter, High pressure	
Wiper switch	24V Alternator not charging	Fuel Quick Fill	
Loading brake switch	Turn indicator light	Deck safety guards	
Parking brake switch	High/Low speed indicator	Extinguisher	
Stairway light switch	<u> </u>	Central lubrication	
Engine check switch	GENERAL	Auxiliary Dumping Connecter	
Engine start/stop switch	Steering/braking accumulators	Hydraulic Cooler	
Hand braking switch	Two-stage air cleaner	Temp-sensing Fuel cooler	
DID	Hoist control		

>> OPTIONAL EQUIPMENT

Body Liners

Brake auto apply

Body heating

Rear backing-up monitor

Central fire suppression

Auto weigh system

Fuel heater

Engine cold start system

Central Fill System

Superpower back light

Maintenance illuminator

Body, enlarged capacity

HMI system

>> WEIGHTS

	Kg	
EMPTY VEHICLE WEIGHT (EVW)		
Front Axle	65000 kg	47%
Rear Axle	73300 kg	53%
Total	138300 kg	
GROSS VEHICLE WEIGHT (GVW)		
Front Axle	107020 kg	33%
Rear Axle	217280 kg	67%
Total	324300kg	

>> SERVICE DATA

SERVICE CAPACITIES	LITRES	
Engine Oil	204 L	
Coolant	492 L	
Fuel tank	2877 L	
Wheel Motor	38 L	
Front Suspension	33 L	
Rear Suspension	42 L	
Hydraulic System	890 L	
Hydraulic Tank	662 L	



Specifications subject to change without notice.

NTE 200



Aury NHL Mining Pty Ltd

HEAD OFFICE

108 Mustang Drive Rutherford NSW 2320 Phone: +61 2 4931 9348

MACKAY

6 Progress Drive Paget Mackay QLD 4740

PFRTH

27 Purser Loop Bassendean WA 6054

MOÇAMBIQUE

Stand 81, EN7, Chithatha, Moatize, Tete

www.aurynhl.com.au



