

>> Gross Horsepower: 3500/3650hp

>> Payload: 330t

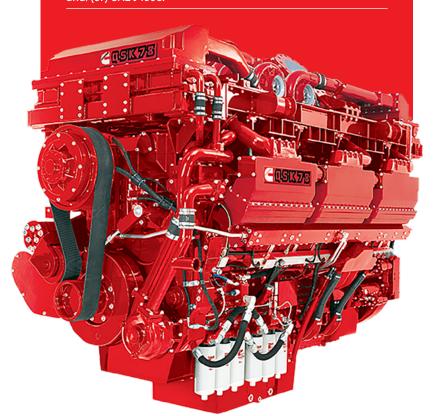
NTE360 Mining Truck

>> ENGINES

Equipped Cummins QSK78 and MTU 20V4000 engine options and GE drive 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.

Manufacturer	Cummins	MTU
Model	QSK78 Tier I	20V 4000 C22 Tier I
Operating Cycle	4	4
Number of Cylinders	18	20
Rated Power (SAE)	2610kW (3500 hp)	2722kW (3650hp)
Flywheel HP	2445kW (3278Hp)	2528kW (3390hp)
Weight Dry	10800kg (23810lb)	10240kg (22575lb)

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 seamless tubes cross beam design to eliminate sources of stress concentration. Variable section main rails reduce stress and increase frame fatigue life. The seamless tubes cross beam structure enhances the torsional resistance. A submerged arc welding process further reduces stress with full-penetration weld joints, which increases frame fatigue life.



>> DRIVE SYSTEM

Alternator	5GTA61
Wheel Motor	5GDY134
Control Group	17KG564
Resistor Grid	17EM168
Gear Ratio	32.62:1
Max Speed	64.5 km/h (40 mph)
Number of Resistor	12
Maximum Continuous Rating	4476kW (6000hp)
a	

The electric retarding system is equipped with air-cooled 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 Cummins QSK60 and MTU 20V4000C23 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 NTE360 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

Rugged one-piece "\(\pi\)" beam construction with closed 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

Standard:	Michelin 56/80 R 63
Option:	Bridgestone 59/80 R63
Rim Size:	Std 41.00/5.0 330t



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: 12.25 inch (311 mm)

Rear: 7.25 inch (184 mm)

Rear Axle Oscillation: ±5.3°



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: 28s

Power down: 17s

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: 17.4 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 is more stable and stronger. Standard rock body incorporates 25 mm (1") bottom plate with 10 mm (3/8") side and 16 mm (5/8") front plate.

Struck (SAE):	211 m3
Heaped (SAE 2:1):	256 m3
Working:	232 m3

Optional body available based on material density.



>> 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) could provide enough brake force under emergency situation. The system would alarm when system pressure drops below 2100 PSI.

Service Brake Pressure: 2750 psi (18960kpa)

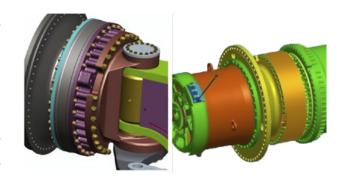
Service Brake Area / Brake:

F: 96187 cm² (14909 in²)

R: 115425 cm² (17891 in²)

Park Brakes — spring apply, hydraulic release.

Braking system meets the requirements of ISO 3450.

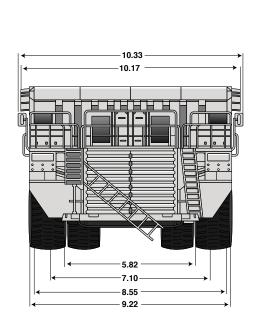


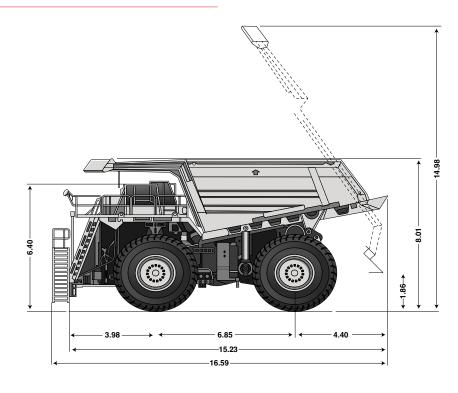
>> 24V ELECTRICAL SYSTEM

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	Hoist control
Acoustic lining	Engine Tachometer	Hand Brake Control
Door Locks	Fuel Gauge	Retardation Control
Floor Mat	Hour meter	Hydraulic control casing
ROPS/FOPS Protection	Engine oil pressure gauge	Hydraulic Tank
Electric Window	Speedometer	Fuel Level
A/C /heater/Defroster	Voltmeter Engine coolant	Coolant sight glass nut
Interior Light	temperature	Fuel sight gauge nut
Illuminative Panel	Flashing indicator	Engine Pre lube
Air Suspension Seat	Air Cleaner Restriction	Low-temp start- protection
Passenger Seat	Warning indicator light/buzzer	Dry disc brake/Wet brake
Seat Belts	Check Engine	Exhaust Muffler
Steering Column, adjustable	Engine Stop	Quartz Halogen Headlight
Sun Visor	Cooling duct	Reversing light /buzzer
Tinted Glass	Pressure Low	Steer/Retard/Running brake
Wipers/Washers	Fuel Level	Hoist/Reverse interlocking
Compartment	High Hydraulic Temperature	Hoist/High speed interlocking
Radio and MP3 Player	Low Brake Pressure	Parking Brake
	Low Hydraulic Oil Level	Two-circuit brake
CONTROLS	Low Steering Pressure	Rear View Mirrors
Block Switch	Electric System Fault	Rock Ejectors
Selector	Low Coolant level	Body safety chain
Headlight / taillight switch	Parking Brake	Engine maintenance ladder
Key Switch, Power	Body Hoist	Radiator, changeable core
Wiper switch	Headlight Beam	Hydraulic filter, High pressure
Loading Brake Switch	24V Alternator Not Charging	Fuel Quick Fill
Parking Brake Switch	Turn indicator light	Deck safety guards
Stairway Light Switch	High/Low Speed indicator	Extinguisher
Engine Check Switch		Central lubrication
Engine Start/stop switch	GENERAL	Auxiliary Dumping Connecter
Hand Braking Switch	Steering/braking accumulators	Hydraulic Cooler Exchanger
	Two-stage air cleaner	Temp-sensing Fuel cooler

>> OPTIONAL EQUIPMENT

Trolley Drive	AVM
Engine oil maintenance extend	Auto Weigh system
Engine cold start system	Vehicle anti-collision system
Fuel Heater	Superpower back lamp
Body Liners	Maintenance illuminator
Body Heating	Fog lamp
Body, enlarged capacity	12/24V DC point
Date management system	Central Fill System

HYD filter pressure switch

Central fire suppression

CAB air pressure

Genuine leather drive seat

Wheel chocks

Quick Rims

>> WEIGHTS

	Kg	
EMPTY VEHICLE WEIGHT (EVW)		
Front Axle	118580 kg	49%
Rear Axle	123420 kg	51%
Total	242000 kg	
GROSS VEHICLE WEIGHT (GVW)		
Front Axle	188760 kg	33%
Rear Axle	383240 kg	67%
Total	572000 kg	

>> SERVICE DATA

SERVICE CAPACITIES	LITRES)
Engine Oil	268/315 L
Coolant	1050 L
Fuel	5300 L
Wheel Motor	85 L
Front Suspension	35.8 L
Rear Suspension	47.5 L
Hydraulic System	1200 L
Hydraulic Tank	850 L



Specifications subject to change without notice.

NTE 360



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