

XEMC

MAXIMUM GVW
398000kg **877,440 lb**
GROSS HORSEPOWER
1865 kW **2,500 HP**

XEG220 (SF33901D)



ELECTRIC DRIVE TRUCK

Photo may include optional equipment.

SPECIFICATIONS



ENGINE

*Make and model 1	MTU 16V 4000(Standard)
*Make and model 2	Cummins QSK60(Optional)
Fuel	Diesel
Number of cylinders	16
Operating cycle	4 cycle
**Rated brake power	1864 kW 2,500 HP @ 1900 rpm
***Flywheel power	1761 kW 2,362 HP @ 1900 rpm
Weight (wet) model	7529 kg 16,598lb

* Tier 1 emissions certified. Tier 2 emissions engine is optional.

**Rated brake power is the output of the engine as installed in this machine, at governed rpm and with engine manufacturer's approved fuel setting. Accessory losses included are water pump, fuel pump and oil pump

***Flywheel power is the rated power at the engine flywheel minus the average accessory losses.



ELECTRIC DRIVE

AC/DC/AC CURRENT

Alternator	G.E. GTA-41
Control	AC torque control system
*Motorized wheels	GEB25
*Ratio	31.875:1
Speed (maximum)	.64 kw/h 40 mph

* Wheel motor application depends upon gross vehicle weight, haul road grade, haul road length, rolling resistance and other parameters. XEMC and G.E. must analyze each job condition to assure proper application.



TIRES AND RIMS

Rock service, tubeless, radial tires

Standard tire	40.00R57
*Optional tire	46/90R57

Standard five (5) piece rim

737 mm x 1488 mm x 152 mm **29" x 57" x 6"** rims.

Standard tire weight .21081 kg **46,476 lbs**



BODY

All-welded structure of high-strength low-alloyed steel. Flat floor body include floor sheet, front sheet, side sheet, canopy sheet. Rear wheel rock ejectors, body up sling and rubber mounts on frame are standard. Pivot exhaust heating optional.

Floor sheet	20 mm 0.79" 1400MPa 203,053 psi tensile strength steel (two-piece)
Front sheet	12 mm 0.47" 1400mPa 203,053 psi tensile strength steel
Side sheet	12 mm 0.47" 1400 mPa 203,053 psi tensile strength steel
Canopy sheet	5 mm 0.19" 800 mPa 116,030 psi
*Struck	98 m³ 128 yd³
*Standard SAE heaped 2:1	136 m³ 178 yd³
* Standard XEMC body weight	32000 kg 70,548 lbs

* Based on 1.7 SG loading material



CAB

Advanced Operator Environment with integral 4-post ROPS/FOPS structure Level 2 (ISO 3471/ISO 3449), adjustable air suspension seat w/lumbar support and arm rests, full-size passenger seat, maximum R-value insulation, tilt and telescoping steering wheel, electric windshield wipers w/washer, tinted safety glass, power windows, XEMC Payload Weighing System, 23,000 Btu/hr heater and defroster, 22,000 BTU/hr air conditioning (HFC - 134A refrigerant).



FRAME

Advanced technology, full welded structure of high-strength low-alloyed steel, fish-bellied gridders longn with variable cross-section, integral dragon door grider, rear traction beam with hexagon, tail boom with box shape.

Plate material 600 mPa **87,023 psi**
tensile strength steel

Rail width	270 mm 10"
Rail depth (minimum)	864 mm 34"
Top and bottom plate thickness	32 mm 1.25"
Side plate thickness	16 mm 0.62"
Drive axle mounting	Pin and spherical bushing
Drive axle alignment	Swing link between frame and axle



BRAKING SYSTEM

System meets ISO 3450. Service brakes: all-hydraulic actuated.

Front	Wheel speed disc. Four calipers on a 1168 mm 46" O.D. disc.
Rear	Dual disc armature speed. Two 635 mm 25" O.D. discs per side. One caliper per disc.

Emergency brakes Automatically applied prior to hydraulic system pressure dropping below level required to meet secondary stopping requirments

Wheel brake locks	Switch-activated
Parking brakes	Multiple disc, spring-applied, hydraulically-released, dry brakes on inboard end of each wheel motor rotor shaft. Rated to hold on±15% grade at maximum gross vehicle weight.

Electric brakes (max.) .2908kW **3900 hp**
Continuously rated high-density blown grids and retard in reverse propulsion.



SUSPENSION

Hydro-pneumatic suspension of variable rate hydro-pneumatic with integral rebound control.

Max. front stroke	311.5 mm 12.3"
Max. rear stroke	361.5 mm 14.2"
Max. rear axle oscillation	±6.5°



COOLING SYSTEM

Exhaust expansion tank, double circulation cooling system.

Radiator frontal area 7.02 m² **75.6 ft²**



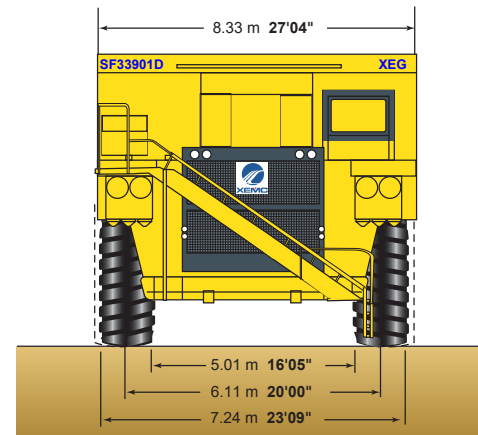
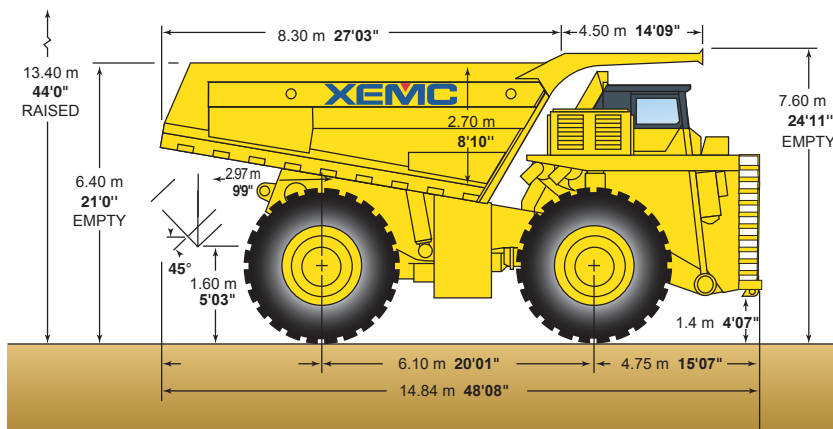
SERVICE CAPACITIES

Cooling system	745 L	197 U.S.gal
*Crankcase	260 L	69 U.S.gal
Hydraulic system	1040 L	275 U.S.gal
Motor gear box	.2 x 40 L	2x11U.S.gal
Fuel	.4500 L	1189 U.S.gal

* Includes lube oil filters



DIMENSIONS



All dimensions are with 136 m³ 178 yd³ body.

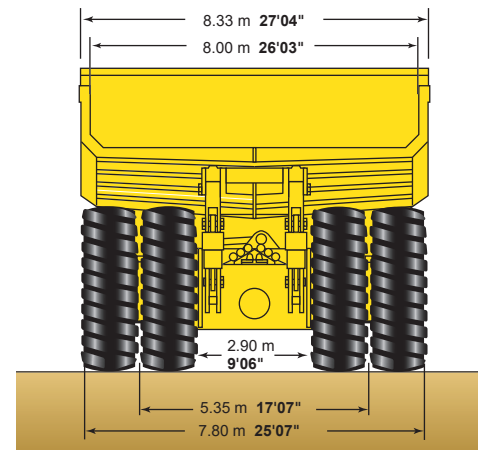
Body	Struck	2:1 Heap	Loading Height*
Standard	98 m³ 128 yd³	136 m³ 178 yd³	6.40 m 21'

* Exact load may vary due to tire make, type and inflation pressure.



HYDRAULIC SYSTEM

Steering	Accumulator-assisted twin cylinders provide constant rate steering. Emergency steering automatically supplied by accumulator.
Turning circle diameter (SAE)	30 m 98 ft
Filtration	In-line replaceable elements
Suction	Dual, full-flow, 100 mesh
Hoist and steering	Triple, in-line, high-pressure.
Brake component cabinet	Above-deck, easily accessible with diagnostic test connections.
Hoist	Two 3-stage dual-acting outboard cylinders, internal cushion valve, over-center damping.
Hoist times	
Power-up loaded	23 sec
Power-down	10 sec
Float-down empty	18 sec
Pumps	
Hoist and cooling	vane pump with output of 408 lpm 108 gpm @ 1900 rpm and 18000 kPa 2,610 psi
Steering and brake	Pressure compensating piston pump with output of 360 lpm 95 gpm @ 1900 rpm and 19000 kPa 2,755 psi
System relief pressures	
Hoist	18000 kPa 2,610 psi
Steering and Brake	23000 kPa 3,335 psi
Quick disconnects standard for powering disabled truck and for system diagnostics.	



ELECTRICAL SYSTEM

6 x 12V 900 CCA, 12 volt batteries, in series/parallel, bumper mounted with disconnect switch.

Alternator	24 volt, 250 amp
Lighting	24 volt
Cranking motors	two/24 volt



SPECIFICATION

Model	4x2 rear axle driven
Unladen weight	178000kg 392,423 lb
* Nominal payload	220000kg 485,017 lb
Weight Distribution	
Empty	
Front axle	48%
Rear axle	52%
Loaded	
Front axle	33%
Rear axle	67%
Max speed limited	8%
Grag speed limited	16%
Braking distance(velocity at 30km/h 18.63mph)	<25m 82ft

*In general, the nominal payload must be adjusted for the specific vehicle configuration and site application. The figures above are provided for basic product description purposes. Please contact XEMC for specific application requirements.



STANDARD EQUIPMENT

- Air cleaners, Donaldson SSG with dust evacuators
- Alternator (24 volt/250A)
- Auto lubrication system
- Batteries (6 x 12v, 900 CCA 12 volt)
- Battery charging receptacle, 24 V
- Body down indicator
- Body over center device
- Brakes: Front: Wheel speed disc; Rear: dual disc armature speed
- Electric start
- Filters, high pressure hydraulic
- Gate valves on hydraulic tank
- G.E. IGBT control cabinet
- Mirrors, LH flat and RH rectangular convex
- Mud flaps
- Muffled exhaust, right deck-mounted
- On-board load box
- Quick disconnects (steering and hoist)
- Radiator sight gauge
- Removable power module unit (engine, alternator, blower)
- Retard grids, continuous rated, 12 element
- Retard speed control
- Reverse retarding
- Rock ejectors
- Thermostatic Fan Clutch
- Fast-Fill Fuel System (in-tank)
- Hubodometer

OPERATOR ENVIRONMENT AND CONTROL:

- All-hydraulic service brakes with emergency auto apply
- Battery disconnect switch
- Body up fabric cable
- Brake lock and drive system interlock
- Circuit breakers, 24 volt
- Diagonal staircase across grill
- Dynamic retarding with continuous rated grids
- Engine shutdown at ground level
- Hoist interlock

- Horns (electric, center of steering wheel)
- Integral roll-over protection ROPS/FOPS Level 2
- Maintenance & power lock-out
- Parking brake with warning light and speed application protection
- Power steering w/auto emergency steering
- Protective deck rails
- Pump drive guard
- Radiator fan guard
- Seat belts 76 mm 3" wide retractable
- Skid-resistant coating on walkways

STANDARD HIGH VISIBILITY CAB:

Instrumentation

- Alarm System warning lights (red)
 - Coolant low level w/alarm
 - Coolant high temperature w/alarm
 - Diesel shutdown
 - Charge fault
 - Low brake pressure
 - Brake test
 - Low maneuvering pressure
 - Electroless brakes
 - Low steering pressure
 - Without traction
 - Stairs decline
- Air conditioner HFC 134a
- AM/FM radio, CD player
- Speedometer and digital tachometer
- Dome light
- Engine hourmeter
- Engine shutdown
- Floor mat
- Fuel gauge in cab and on tank
- Fuel low level warning
- Gauges (backlighted)
- Headlight switch
- Heater and defroster (heavy-duty)
- High beam selector and indicator

- Indicator lights (amber):
 - Diesel fault
 - RSC
 - Continuous brake
 - Low viction water level
 - Hoisting
 - Low wind pressure
 - Electric brakes
 - Service brakes
 - Parking brakes
 - System fault
- Indicator lights (green):
 - High beam
 - Tracting
 - Stairs position limited
 - Hydraulic system test
- Oil pressure gauge (engine)
- Operator seat, adjustable w/air suspension, lumbar support and arm rests
- Panel lighting (adjustable)
- Passenger seat
- Power windows
- RS232 port-PLM
- Starter key switch
- Steering system warning light and buzzer
- Sunvisor (adjustable)
- Tilt and telescoping steering wheel
- Vehicle health monitoring system (VHMS)
- Windshield (tinted)
- Windshield wipers and washer (electric)

LIGHTING:

- Back-up lights (2)
- Brake and retard lights on top of cab
- Clearance lights
- Control cabinet service light
- Dynamic retarding, rear (2)
- Headlights—(4) HID
- Ladder lights
- Manual back-up light, switch and indicator
- Service light in rear axle
- Stop and tail lights (2)
- Turn signals
- Under-hood service lights



OPTIONAL EQUIPMENT

(Optional equipment may change operating weight).

- Additional high-mounted headlights
- Arctic protection package (suspensions, antifreeze/lube below -40° C)
- Back-up lights, deck-mounted
- Body liners*
- Pressurized cab air system
- Fire extinguisher 9 kg **20 lb**
- Fog lights
- Hot starts (engine oil, coolant, hydraulic tank)
- Service Center (radiator, engine, hydraulics, Grease)
- Pivot exhaust (heated body)
- PLM Scoreboard Display (RH and LH)
- Pressure fueling remote LH
- Radiator shutters
- Special language decals
- XEMC Payload Weighing System-PLM

*Available factory installed or non-installed. All other options and accessories listed are available factory installed only.



湘电重型装备有限公司

XIANGTAN ELECTRIC MANUFACTURING GROUP HEAVY-DUTY EQUIPMENT CO.LTD

XEG 湘电重装

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