

KOMATSU®

730E

MAXIMUM GVW
324318 kg **715,000 lb**

PAYLOAD
177-186 t **195-205 U.S. ton**

GROSS HORSEPOWER
1491 kW **2,000 HP**



ELECTRIC DRIVE TRUCK

730E

SPECIFICATIONS



ENGINE

Make and model Komatsu SSA16V159
 Fuel Diesel
 Number of cylinders 16
 Operating cycle 4 stroke
 *Rated brake power 1492 kW **2,000 HP** @ 1900 rpm
 Flywheel power 1388 kW **1,860 HP @ 1900 rpm
 Weight (wet) 5294 kg **11,670 lb**

NOTE: This engine includes the Engine Monitor System

*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.

Accessories include fan and charging alternator. Rating(s) represent gross engine performance in accordance with SAE J1349 conditions.



ELECTRIC DRIVE

AC/DC CURRENT

Alternator G.E. GTA-22
 Control Statex III Fuelsaver
 *Motorized wheels G.E. 788
 **Ratio 26.825:1
 Speed (maximum) 55.7 km/h **34.6 mph**

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

**Optional ratios available.



TIRES AND RIMS

Rock service, tubeless, tires

*Standard tire 37.00 R57
 Standard five (5) piece rim
 686 mm x 1488 mm x 152 mm **27" x 57" x 6"** patented Phase II
 New Generation rim assembly with patented 152 mm **6"** double
 forged flanges. Not interchangeable with other manufacturers' rims
 due to improved design for greater load support and longer fatigue
 life. Rated at 827 kPa **120 psi** cold inflation pressure.

*Tires should meet application requirements for tkph/tmph, tread, compound, inflation pressure, ply rating or equivalent, etc.



BODY

All-welded steel flat floor body with horizontal bolsters and full canopy.
 Eyebrow, rear wheel rock ejectors, body tilt cable, and rubber mounts
 on frame are standard. Pivot exhaust heating optional.

Bottom plate 19 mm **0.75"** 1034 mPa **150,000 psi**
 tensile strength steel (two-piece)
 Front sheet 12 mm **0.47"** 690 mPa **100,000 psi**
 tensile strength steel
 Side sheet 9 mm **0.35"** 690 mPa **100,000 psi**
 tensile strength steel
 Struck 77 m³ **101 yd³**
 Standard SAE heaped 2:1 111 m³ **145 yd³**



CAB

Advanced Operator Environment with integral 4-post ROPS/FOPS
 structure (meets J1040 Apr88), adjustable air suspension seat with
 lumbar support and arm rests, passenger seat, maximum R-value
 insulation, tilt and telescoping steering wheel, electric windshield
 wipers with washer, tinted safety glass, power windows, Komatsu
 Payload Weighing System, 55,000 Btu/hr heater and defroster,
 21,600 Btu/hr air conditioning (HFC - 134A refrigerant).



FRAME

Advanced technology, full butt-welded box-sectional
 ladder-type frame with integral ROPS supports, integral
 front bumper, rear tubular cross members, steel castings
 at all critical stress transition zones, rugged continuous
 horseshollar.

Plate material 482.6 mPa **70,000 psi**
 tensile strength steel
 Casting material 620.5 mPa **90,000 psi**
 tensile strength steel
 Rail width 279 mm **11"**
 Rail depth (minimum) 813 mm **32"**
 Top and bottom plate thickness 32 mm **1.25"**
 Side plate thickness 19 mm **0.75"**
 Drive axle mounting High-mount ball
 and socket joint at front
 Drive axle alignment Swing link between frame and axle



BRAKING SYSTEM

Service brakes: all-hydraulic actuated

Front Wheel speed disc.
 Three calipers on a 1168 mm **46.0"** 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 requirements.
 Wheel brake locks Switch activated
 Parking brakes Spring-applied,
 hydraulically released, with speed application protection.
 Electric dynamic retarder (max.) 2759 kW **3,700 hp**
 Continuously rated (18 element) blown grids. Two-speed overspeed
 retarding. Extended range retarding. Reverse retarding.



SUSPENSION

HYDRAIR® II

Variable rate hydro-pneumatic with integral rebound control.
 Maximum stroke Front 335 mm **13.2"**
 Rear 279 mm **11.0"**
 Maximum rear axle oscillation +9.75°



COOLING SYSTEM

L&M radiator assembly with sight gauge. Deaeration-type
 top tank. Dual pass cooling.

Radiator frontal area 4.33 m² **46.6 ft²**



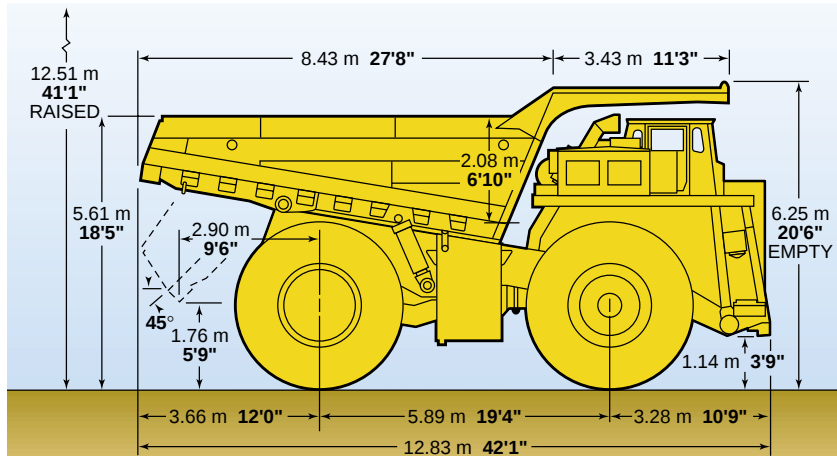
SERVICE CAPACITIES

Cooling system 409 L .. **108 U.S. gal**
 *Crankcase 223 L .. **59 U.S. gal**
 Hydraulic system 731 L .. **193 U.S. gal**
 Motor gear box 40 L .. **10.5 U.S. gal**
 Fuel 3217 L .. **850 U.S. gal**

*Includes lube oil filters



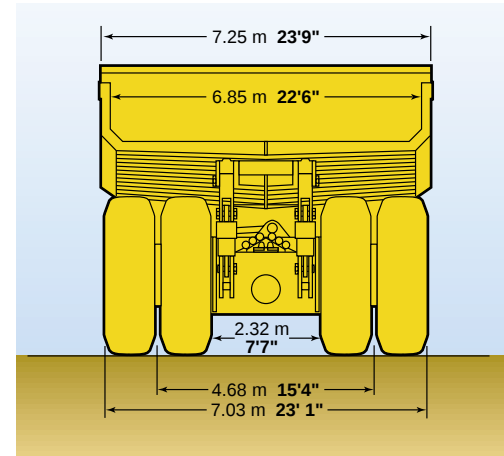
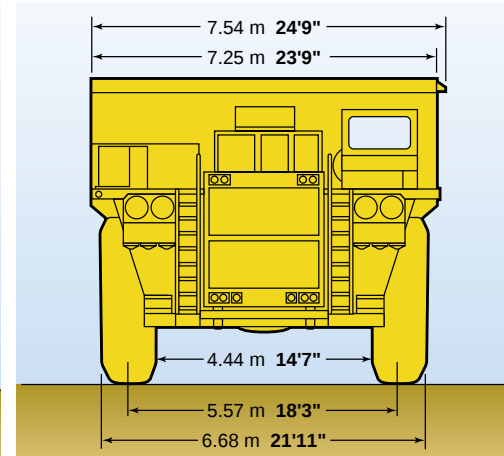
DIMENSIONS



All dimensions are with 111 m³ 145 yd³ body.

Bodies	Struck	2:1 Heap	Loading Height*
Standard	77 m ³ 101 yd ³	111 m ³ 145 yd ³	5.61 m 18'5"

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



HYDRAULIC SYSTEM

Steering Accumulator-assisted twin cylinders provide constant rate steering. Emergency power steering automatically applied by accumulator (meets SAEJ1511)

Turning circle diameter (SAE) 28.0 m **92 ft**

Reservoir 731 L **193 U.S. gal**

Filtration In-line replaceable elements

Suction Single, full-flow, 100 mesh

Hoist and steering Dual, full-flow, in-line, high-pressure $\beta_{12} = 200$

Brake component cabinet Above-deck, easily accessible with diagnostic test connector.

Hoist Two 3-stage dual-acting outboard cylinders, internal cushion valve.

Hoist times

Power-up loaded 21 sec

Power-down 15 sec

Float-down empty 22 sec

Pumps

Hoist Gear-type pump with output of 513 liters **135.6 gpm** @1900 rpm and 17240 kPa **2500 psi**

Steering and brake Vane-type pump with output of 235 liters **62.0 gpm** @1900 rpm and 18960 kPa **2,750 psi**

System relief pressures

Hoist 17240 kPa **2,500 psi**

Steering and brake 27580 kPa **4,000 psi**

Quick disconnects standard for powering disabled truck and for system diagnostics.



ELECTRICAL SYSTEM

4 x 8D 1450 CCA, 12 volt batteries, in series/parallel, bumper-mounted with disconnect switch.

Alternator 24-volt, 240 amp

Lighting 24-volt

Starters Two 24-volt



WEIGHT DISTRIBUTION

Empty Vehicle	kg	lb	%
Front axle	66160	145,858	47.2
Rear axle	72209	159,194	52.8
Total (wet, 50% fuel)	138369	305,052	
Loaded Vehicle at maximum GVW rating			
Front axle	98941	218,129	33.7
Rear axle	225377	496,871	66.3
Total	324318	715,000	

NOTE: GVW shall not exceed 324 318 kg **715,000 lb** including options, liners, fuel and payload, subject to application approval by Komatsu.

NOTE: Komatsu trucks comply with SAE specifications for cab noise, ROPS, steering and braking. Cover photos and illustrations may show optional equipment. Materials and specifications subject to change without notice.



STANDARD EQUIPMENT

<https://truckmanualshub.com/>

- Air cleaners, dry type SRG
- Alternator (24V/240A)
- Auto lubrication system
- Batteries (4 x 8D, 1450 CCA 12 volt)
- Battery charging cable and socket
- Body left-side canopy protector
- Body over center device
- Brakes: Wheel speed disc front; rear - dual disc armature speed
- Electric start
- Fast-Fill Fuel System (in tank, right side)
- FLOC - fast lube oil change
- Filters, high pressure hydraulic
- Gate valves on hydraulic tank
- Komatsu control cabinet
- Komatsu Payload Weighing System-PLM III
- Mirrors, LH flat and RH rectangular convex
- Modular Mining System (MMS) ready
- Mud flaps
- Muffled exhaust, deck-mounted
- On board load box
- Power supply, 24V to 12V DC
- Quick disconnects (hoist, steering)
- Removable power module unit (radiator, engine, alternator, blower)
- Rock ejectors
- Radiator sight gauge
- Retard speed control
- Reverse retarding
- Thermostatic fan clutch
- Two-speed overspeed retarding
- Vari-volt alternator control
- Vertical ladders

SAFETY:

- All hydraulic service brakes with emergency auto apply
- Battery disconnect switch
- Body prop cable
- Brake lock and drive system interlock

- Dynamic retarding with continuous rated 18-element grids
- Engine shutdown at ground level
- Exhaust blankets
- Hoist propulsion interlock
- Horns (back-up, front - electric)
- Maintenance and power lockout
- Parking brakes with warning light and speed application protection
- Power steering w/auto emergency steering
- Protective deck handrails
- Pump driveline protector
- Radiator fan guard
- Seat belts (wide, retractable)
- Skid-resistant coating on walkways
- Slippery road brake switch
- 24-volt circuit breakers

CAB:

- Air cleaner vacuum gauges
- Air conditioner HFC 134A
- Alarm System warning lights (red)
 - Accumulator pre-charge
 - Auto lube alarm
 - Coolant low level w/alarm
 - Coolant high temperature w/alarm
 - Electric drive system cooling blower w/alarm
 - Electric system fault w/alarm
 - Hydraulic oil level w/alarm
 - Hydraulic oil temperature w/alarm
 - Low engine oil pressure w/alarm
 - Low brake pressure w/alarm
 - Motorized wheel temperature stop engine w/alarm
 - Steering pressure w/alarm
- AM/FM cassette radio
- Engine monitoring system
- Digital tachometer and speedometer
- Dome light
- Double door seals
- Engine hourmeter, oil pressure gauge, water temperature gauge
- Engine shutdown w/5 minute delay timer

- Floor mat
- Fuel gauge in cab and on tank
- Gauges (backlit)
- Headlight switch
- Heater and defroster (heavy-duty)
- Heater switch
- High beam selector and indicator
- Indicator lights (amber): check engine w/alarm; circuit breaker tripped; dynamic retarding; dump body up; hydraulic oil filter; low fuel level; manual back-up lights; park brakes applied; retard speed control; service brakes
- Horn (center of steering wheel)
- Independent brake/retarder pedals
- RS232 port - Statex III-PLM III
- Insulation (extra thick) R-12
- Integral roll-over protection (ROPS)
- Operator seat, adjustable w/air suspension, lumbar support and arm rests
- Panel lighting (adjustable)
- Passenger seat
- Power windows
- Pressurized cab air system
- Starter key switch
- Sunvisor (adjustable)
- Tilt and telescoping steering wheel
- Voltmeter (battery output)
- Wheel brake lock w/drive system interlock
- Windshield wipers, dual, washer (electric)
- Windshield (tinted safety plate)

LIGHTING:

- Back-up lights-rear mount (2)
- Brake and retard lights on top of cab
- Clearance lights (amber-front; red-rear)
- Control cabinet service light
- Dynamic retarding, rear (2)
- Headlights - bumper (4) halogen
- 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
- Air cleaner evacuators
- Arctic protection package (suspensions, antifreeze/lube below -40° C)
- Back-up lights, deck mounted
- Body liners*
- Exhaust-heated body
- Filtered air inlet system
- Fire extinguisher
- Fog lights-Halogen (2) lower grille
- Hot start (engine oil, coolant, hydraulic tank)
- Hubometer (miles or kilometers)
- Mufflers between rails
- Pressure fueling, LH remote*
- Radiator shutters
- Trolley assist package
- Service Center

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

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KOMATSU®

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