

# KOMATSU®

## 730E

**MAXIMUM GVW**  
324322 kg **715,000 lb**  
**GROSS HORSEPOWER**  
1491 kW **2,000 HP**



Photo may include optional equipment.

ELECTRIC DRIVE TRUCK

# 730E ELECTRIC DRIVE TRUCK

## SPECIFICATIONS



### ENGINE

Make and model . . . . . Komatsu SSA16V159  
 Fuel . . . . . Diesel  
 Number of cylinders . . . . . 16  
 Operating cycle . . . . . 4 stroke  
 \*Rated brake power . . . . . 1491 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.  
 Typical tire weight . . . . . 18371 kg **40,500 lb**

\*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 up 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 m<sup>3</sup> **101 yd<sup>3</sup>**  
 Standard SAE heaped 2:1 . . . . . 111 m<sup>3</sup> **145 yd<sup>3</sup>**  
 Standard Komatsu body weight . . . . . 25612 kg **56,464 lb**



### 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 blown grids. Two-speed overspeed retarding.  
 Extended range retarding. Reverse retarding.



### SUSPENSION

#### HYDRAIR® II

Variable rate hydro-pneumatic with integral rebound control.  
 Maximum front stroke . . . . . 335 mm **13.2"**  
 Maximum rear stroke . . . . . 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 m<sup>2</sup> **46.6 ft<sup>2</sup>**



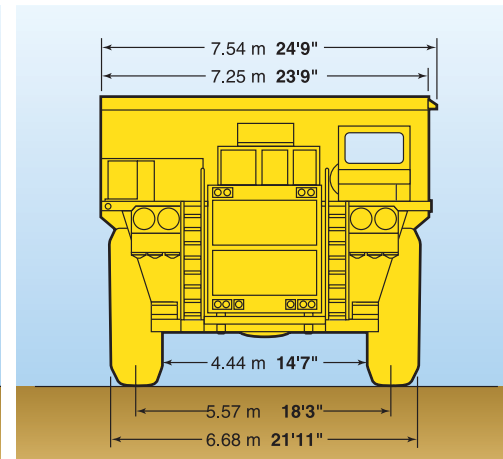
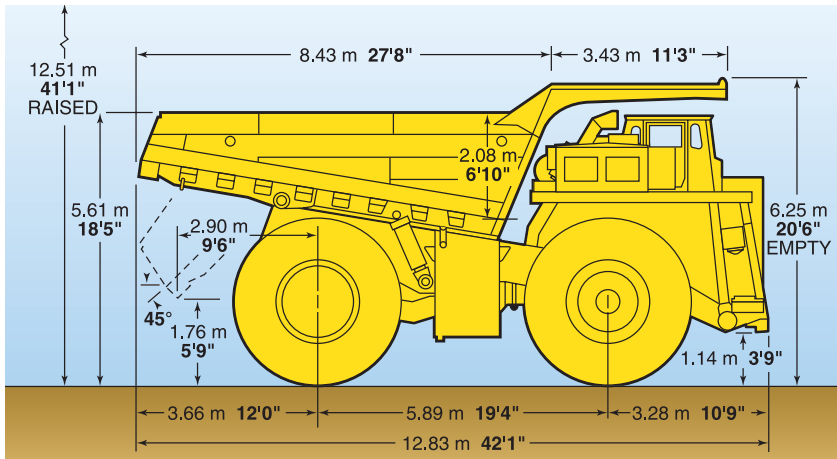
### SERVICE CAPACITIES

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



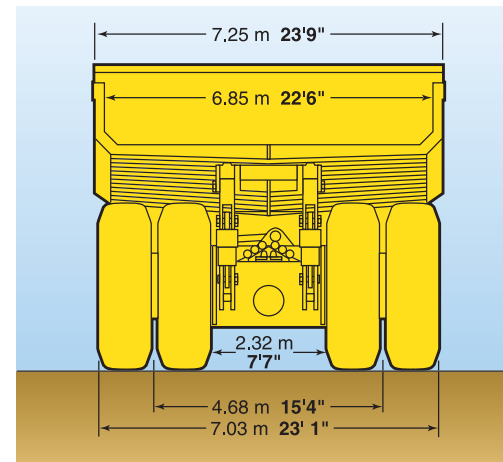
## DIMENSIONS



All dimensions are with 111 m<sup>3</sup> 145 yd<sup>3</sup> body.

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

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



## HYDRAULIC SYSTEM

- Steering . . . . . Accumulator-assisted with twin cylinders provide constant rate steering. Emergency power steering automatically supplied 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
- 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 lpm **135.6 gpm** @ 1900 rpm and 17240 kPa **2500 psi**
  - Steering and brake . . . . . Vane-type pump with output of 235 lpm **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, 260 amp
- Lighting . . . . . 24-volt
- Cranking motors . . . . . two/24-volt



## WEIGHT DISTRIBUTION

- Empty vehicle weight** (wet, 100% fuel, no options, std Komatsu body, std tires)
  - Front axle . . . . . 66840 kg . . . **147,357 lb** 48%
  - Rear axle . . . . . 73752 kg . . . **162,593 lb** 52%
  - Total EVW . . . . . 140592 kg . . . **309,950 lb**
- Gross vehicle weight** (Nominal)
  - Front axle . . . . . 107026 kg . . . **235,950 lb** 33%
  - Rear axle . . . . . 217296 kg . . . **479,050 lb** 67%
  - Total . . . . . 324322 kg . . . **715,000 lb**
  - Nominal payload\* . . . . . 183730 kg . . . **405,050 lb**
  - 203 U.S. ton**

\*Nominal payload is defined by Komatsu America Corporation's payload policy documentation. 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 your Komatsu distributor for specific application requirements.



## STANDARD EQUIPMENT

- 7-step (ERR) Extended Range Retarding
- Air cleaners, Donaldson SRG
- Alternator (24 volt/260A)
- 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: Front wheel speed disc; 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
- Mud flaps
- Muffled exhaust, deck-mounted
- On board load box
- Power supply, 24 volt and 12 volt DC
- Quick disconnects (hoist, steering)
- Removable power module unit (radiator, engine, alternator, blower)
- Rock ejectors
- Radiator sight gauge
- Retard speed control
- Retard grids, continuous rated, 14 element
- 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 up cable
- Brake lock and drive system interlock
- Circuit breakers, 24 volt
- Dynamic retarding with continuous rated grids

- Engine shutdown at ground level
- Exhaust blankets
- Hoist propulsion interlock
- Horns (back-up, front - electric)
- Integral roll-over protection (ROPS)
- 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 76 mm 3" retractable
- Skid-resistant coating on walkways

### STANDARD HIGH VISIBILITY DELUXE CAB:

- Air cleaner vacuum gauges
- Air conditioner HFC 134A
- Alarm System warning lights (red)
  - Accumulator pre-charge
  - 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, XM capable
- 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 (w/back light)
- Headlight switch
- Heater and defroster (heavy-duty)
- Heater switch

- High beam selector and indicator
- Indicator lights (amber):
  - 5-minute idler timer
  - Auto lube alarm
  - 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
  - Starter circuit
- Horn (center of steering wheel)
- Independent brake/retarder pedals
- RS232 port - Statex III-PLM III
- Insulation (Max R-Valve)
- Oil pressure gauge
- 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 - (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 9 kg **20 lb**
- Fog lights-Halogen (2) lower grille
- Hot start (engine oil, coolant, hydraulic tank)
- Hubometer (miles or kilometers)
- Modular Mining System (MMS) ready
- Motorized wheel ratio's (higher/lower)
- Mufflers between frame rails
- Pressure fueling, LH remote\*
- Radiator shutters
- Trolley assist package
- Service Center-RH
- Special language decals

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

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