

# KOMATSU®

## HD605-8

*Tier 4 Final Engine*

**OFF-HIGHWAY TRUCK**



Photos may include optional equipment.

#### **HORSEPOWER**

Gross: 775 HP 578 kW  
Net: 724 HP 540 kW

#### **NOMINAL PAYLOAD**

69.4 US tons 63.0 metric tons

#### **BODY CAPACITY**

Heaped (SAE 2:1): 52.3 yd<sup>3</sup> 40.0 m<sup>3</sup>

# WALK-AROUND

## PRODUCTIVITY FEATURES

- High performance Komatsu SAA6D170E-7 engine with increased horsepower (724 HP/540 kW)
- Variable Geometry Turbocharger (VGT) is hydraulically actuated to provide optimum air flow under all speed and load conditions
- Komatsu Diesel Particulate Filter (KDPF) reduces particulate matter while providing automatic regeneration that does not interfere with daily operation
- No use of Selective Catalytic Reduction (SCR) assembly or Diesel Exhaust Fluid (DEF)
- Seven-speed, fully automatic K-ATOMiCS transmission with skip shift function
- Komatsu Traction Control System (KTCS)
- Automatic Retard Speed Control (ARSC)
- Wet, multiple-disc brakes provide high retarding capability (802 kW **1,075 HP**)
- Tight turning radius: 8.7 m **28' 7"**



Photos may include optional equipment.

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## PRODUCTIVITY AND FUEL ECONOMY

**Komatsu Traction Control System (KTCS)** monitors for wheel spin and automatically applies independent brake assemblies for optimum traction in all ground conditions to improve productivity.

Komatsu's latest "on demand" energy saving technologies lower fuel consumption.

### OPERATOR ENVIRONMENT

- Ergonomically designed, spacious cab with excellent visibility
- Angled front stairways with handrails for easy access
- Machine monitor with high resolution, seven-inch color Liquid Crystal Display (LCD) unit
- Rearview monitor system
- Hydro-pneumatic suspension
- Viscous cab mounts for a quiet, comfortable ride
- Air suspension, heated, ventilated seat
- Automatic climate control system
- Heated rearview mirrors
- Two 12 volt power outlets
- KOMTRAX PLUS® allows remote access to maintenance and performance information

### ECOLOGY AND FUEL EFFICIENCY

- Komatsu SAA6D170E-7 engine is EPA Tier 4 Final emissions certified
- Fuel consumption reduced up to seven percent compared to the HD605-7E0
- Energy saving operation thanks to ecology guidance
- Komatsu auto idle shutdown helps reduce idle time and operating costs

### RELIABILITY FEATURES

- Robust dump body design
- Integrated Payload Meter (PLM)
- High rigidity frame
- 10-5-10 payload policy
- Supplementary steering, automatic
- Secondary hydraulic brakes
- Komatsu designed and manufactured components

### MAINTENANCE FEATURES

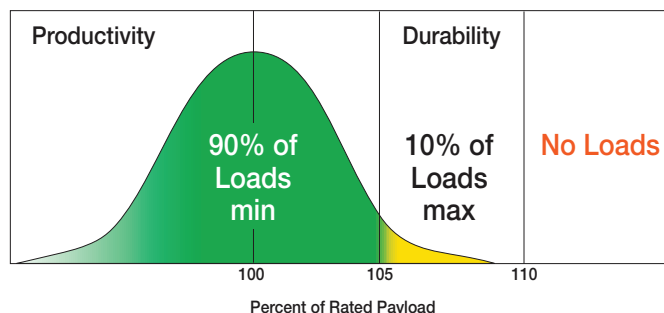
- Centralized, ground level, arrangement of filters and greasing points
- Advanced monitoring system with on board diagnostics, no laptop computer required
- Hydraulically operated, reversible cooling fan
- Modular radiator core system
- Fast fuel fill coupler
- Engine compartment light

### PAYLOAD POLICY

#### 10-5-10 Load Policy Criteria

Recognizing that variation occurs naturally in material density, fill factors, and loading equipment, Komatsu America Corp. deems it necessary to establish a consistent payload policy. This payload policy is intended to identify the guidelines and limitations for the loading of Komatsu mining trucks, and is valid for approved applications and haul profiles only.

- 1) The average monthly payload must not exceed the rated payload of the truck.
- 2) 90% of all loads must be below 105% of the rated payload of the truck.
- 3) 10% of all loads may be between 105% and 110% of the rated payload of the truck.
- 4) No single payload may exceed 110% of the rated payload of the truck.



# KOMATSU PARTS & SERVICE SUPPORT



## Complimentary Scheduled Maintenance

- Complimentary scheduled engine maintenance for **3 years or 2,000 hours**
- Service is performed by factory certified technicians using Komatsu Genuine parts and fluids
- Includes a 50 point inspection at each service
- Significantly reduce ownership costs and increase reliability and uptime
- Increase resale value with detailed maintenance records and transferable program benefits

## Complimentary KDPF Exchange Program

- Covers one KDPF exchange (which includes both KDPF assemblies) in the first five years
- Assurance of factory certified KDPF cleanings
- Reduced downtime from exchange

\* Labor is not included in the KDPF exchange. See program certificate for details and exclusions.



## Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



\* Some exclusions apply. Please contact your Komatsu distributor for specific program details.



## Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



## Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life



# KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH  
**KOMTRAX®**

## ✓ WHAT

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **lowering owning and operating cost**

## ✓ WHEN

- Know when your machines are **running or idling** and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance is due** and help you plan for future maintenance needs

## ✓ WHERE

- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

## ✓ WHO

- KOMTRAX is **standard** equipment on all Komatsu construction products

## ✓ WHY

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere



# KOMTRAX Plus®

**Assists Customer's Equipment Management and  
Contributes to Fuel Cost Cutting**

## Equipment Management Support

KOMTRAX Plus enables expanded monitoring of the fleet via satellite and wireless LAN. Users can analyze "machine health" and performance from a remote location, on a near-real time basis. This includes component condition and trend data. By making this critical information readily accessible, KOMTRAX Plus is an effective tool in maximizing productivity and lowering operating costs.

# SPECIFICATIONS



## ENGINE

Model.....Komatsu SAA6D170E-7\*  
 Type.....Water-cooled, four-cycle  
 Aspiration.....Variable geometry, turbo-charged, air-to-air  
 after-cooled, cooled Exhaust Gas Recirculation (EGR)  
 Number of cylinders.....6  
 Bore.....170 mm **6.69"**  
 Stroke.....170 mm **6.69"**  
 Piston displacement.....23.15 ltr **1,413 in³**  
 Horsepower:  
   SAE J1995.....Gross 578 kW **775 HP**  
   ISO 9249 / SAE J1349.....Net 540 kW **724 HP**  
   Rated rpm.....2000 rpm  
 Fan drive type.....Hydraulic  
 Maximum torque.....372 kg•m **2,688 ft lbs**  
 Fuel system.....Direct injection  
 Governor.....Electronically controlled  
 Lubrication system:  
   Method.....Gear pump, force-lubrication  
   Filter.....Full-flow type  
 Air cleaner.....Dry type with double elements and  
 precleaner (cyclonpack type), and evacuator valve

\*EPA Tier 4 Final emissions certified



## TRANSMISSION

Torque converter.....Three-elements, one-stage, two-phase  
 Transmission.....Full-automatic, planetary type  
 Speed range.....Seven speeds forward and one reverse  
 Lockup clutch.....Wet, multiple-disc clutch  
 Forward.....Torque converter drive in 1st gear,  
 direct drive in 1st lockup and all higher gears  
 Reverse.....Torque converter drive  
 Shift control.....Electronic shift control with automatic  
 clutch modulation in all gears  
 Maximum travel speed.....70.0 km/h **43.5 mph**



## AXLES

Rear axle.....Full-floating  
 Final drive type.....Planetary gear  
 Ratios:  
   Differential.....3.538  
 Planetary.....4.737



## SUSPENSION SYSTEM

Independent, hydro-pneumatic suspension cylinder with fixed  
 throttle to dampen vibration  
 Effective cylinder stroke (front suspension).....303 mm **11.9"**  
 Rear axle oscillation:  
   Oil stopper.....6.8°  
   Mechanical stopper.....7.7°



## STEERING SYSTEM

Type.....Fully hydraulic power steering  
 with two double-acting cylinders  
 Supplementary steering.....Manually controlled  
 (meets ISO 5010, SAE J1511 and SAE J53)  
 Minimum turning radius.....8.7 m **28' 7"**  
 Maximum steering angle.....39°



## CAB

Dimensions comply with ISO 3471 and SAE J1040-1988c  
 ROPS (Roll-Over Protective Structure) standards.



## BRAKES

Brakes meet ISO 3450 and SAE 1473 standards.

Service brakes:

Front.....Full-hydraulic control, caliper disc type  
 Rear.....Full-hydraulic control, oil-cooled, multiple-disc type  
 Parking brake.....Spring applied, multiple-disc type  
 Retarder.....Oil-cooled, multiple-disc rear brakes act as retarder  
 Secondary brake.....Manual pedal operation  
 when hydraulic pressure drops below the rated level,  
 parking brake is automatically actuated



## MAIN FRAME

Type.....Box-sectioned structure



## BODY

Capacity:  
   Struck.....29.0 m³ **37.9 yd³**  
   Heaped (2:1 SAE).....40.0 m³ **52.3 yd³**  
 Payload.....63.0 metric tons **69.4 U.S. tons**  
 Material.....130 kg/mm² **184,900 psi**  
 high tensile strength steel

Material thickness:

  Bottom.....19 mm **0.75"**  
   Front.....12 mm **0.47"**  
   Sides.....9 mm **0.35"**

Target area

(inside length x width).. 6450 mm x 3870 mm **21' 2" x 12' 8"**

Height at full dump.....8800 mm **28' 10"**

Heating.....Exhaust heating



## HYDRAULIC SYSTEM

Hoist cylinder.....Twin, two-stage telescopic type  
 Relief pressure.....20.6 MPa 210 kg/cm² **2,990 psi**  
 Hoist time.....11.5 sec



## WEIGHT (APPROXIMATE)

Empty weight.....51620 kg **113,803 lbs**  
 Max. gross vehicle weight:  
   Standard tire.....114700 kg **252,870 lbs**  
 Weight distribution:  
   Empty: Front axle.....51%  
           Rear axle.....49%  
   Loaded: Front axle.....33%  
           Rear axle.....67%



## TIRES

Standard tire.....24.00 R35

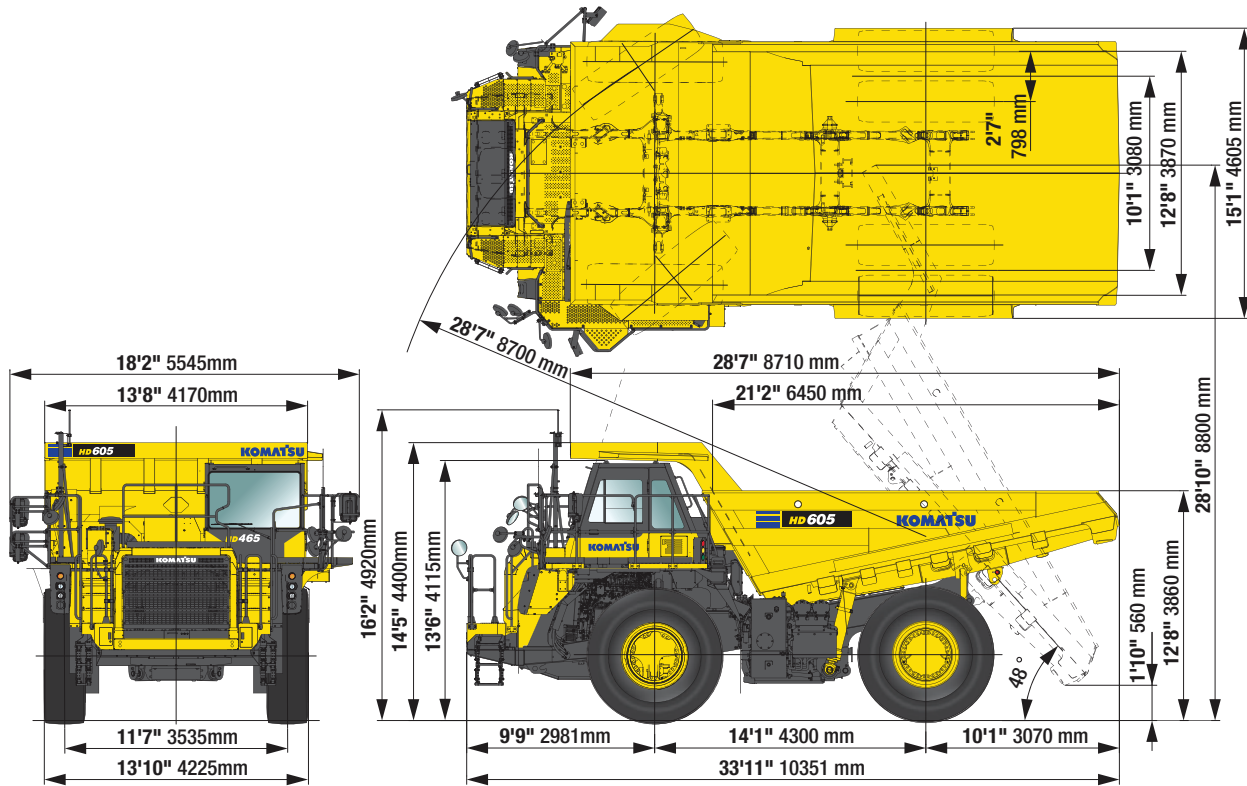


## SERVICE REFILL CAPACITIES

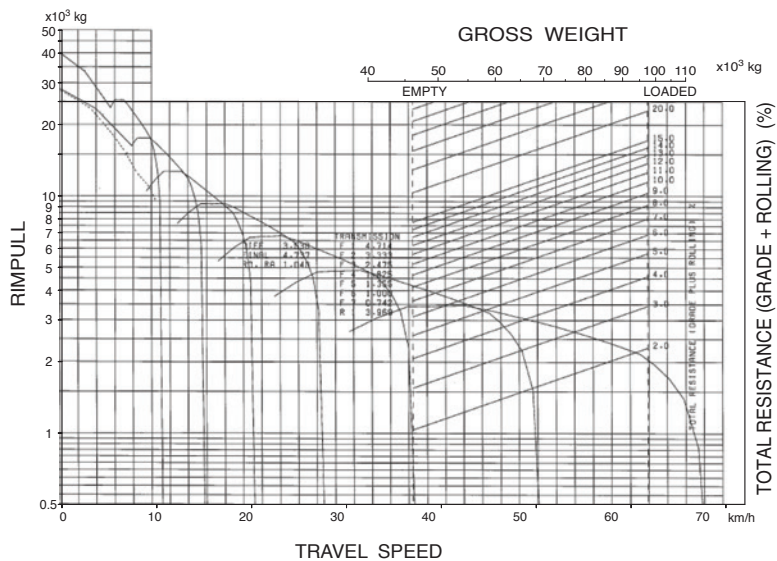
Fuel tank.....800 ltr **211.3 U.S. gal**  
 Engine oil.....80 ltr **21.1 U.S. gal**  
 Torque converter, transmission and  
   retarder cooling.....215 L **56.8 U.S. gal**  
 Differential.....95 L **25.1 U.S. gal**  
 Final drives (total).....42 L **11.1 U.S. gal**  
 Hydraulic system.....149 L **39.4 U.S. gal**  
 Suspension (total).....66.2 L **17.5 U.S. gal**



## DIMENSIONS

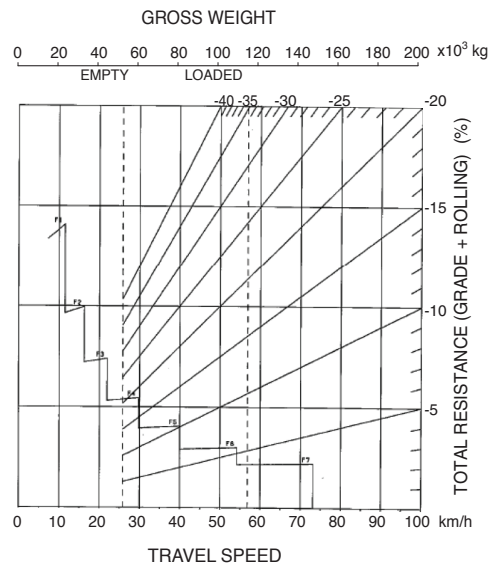


## TRAVEL PERFORMANCE



## BRAKE PERFORMANCE

### SLOPE DISTANCE : CONTINUOUS DESCENT



At ambient temperature 104°F 40°C  
Retarder performance varies depending on ambient temperature.



## STANDARD EQUIPMENT FOR BASE MACHINE

### ENGINE:

- Air cleaner, dry type, two stage
- Automatic Idling Setting System) AISS
- Auto Idle Shutdown
- Electric priming fuel pump
- Engine secondary stop switch
- Engine, Komatsu SAA6D170E-7, six cylinder, turbocharged, air/air after-cooled, EGR cooled, diesel; Gross HP (SAE J1995): 775HP (578kW) / 2000 RPM; Net HP (ISO 9249/SAE J1349): 724HP (540 kW) / 2000 RPM
- Fan, hydraulically driven, reversible
- Komatsu Diesel Particulate Filter (KDPF) (qty two)
- Starting aid, intake manifold pre-heater
- Variable geometry turbocharger

### ELECTRICAL SYSTEM:

- Alternator, 90 ampere, 24 volt
- Back-up alarm
- Batteries, 4 x 12 volt 240 Ah, 910 CCA
- Battery disconnect switch
- Horn, electric
- Lights
  - Back-up light, rear
  - Engine compartment light
  - Head lights, halogen (high and low beam)
  - Side working lights, LH and RH
  - Stop and tail lights (LED)
  - Turn signal, (two front, two rear) with hazard switch
- Starting motors, 2 x 7.5W direct electric 24V

### POWER TRAIN AND CONTROLS:

- Seven-speed transmission, fully automatic with K-ATOMICs
- Komatsu Traction Control System (KTCS)
- Front brake, caliper disc type
- Parking brake
- Rear brake, oil cooled, multiple disc, fully hydraulic controlled
- Skip shift function

### OPERATOR ENVIRONMENT:

- Cab, with built in ROPS/FOPS
  - 12 Volt outlet (qty two)
- Automatic climate control system with cab pressurization
- Auxiliary steering system
- Body hoist control, electric
- Cigarette lighter, 24 volt / ashtray
- Dome light
- Door, LH and RH
- Lunch box and beverage holder
- Machine monitor with seven-inch color LCD display
- Operator seat, air suspension type, heated, ventilated with three-point retractable seat belt (3" 75 mm wide lap belt and 2" 50 mm wide shoulder belt)
- Power windows, LH and RH
- Radio, AM/FM with aux terminal
- Rear window electronic defrost
- Rearview mirror, outside cab mount, heated (LH & RH)

- Rearview monitoring system with dedicated monitor
- Steering wheel, tilt and telescopic
- Sun visor (qty two)
- Tinted glass (front, laminated glass)
- Trainer seat, folding, with two-point retractable seat belt (3" 75 mm wide)
- Wiper/washer front and rear, front intermittent

### GUARD AND COVER GROUP:

- Cab guard, LH
- Catwalk with handrails
- Deck rail
- Driveline guards, front & rear
- Engine underguard
- Exhaust thermal guard
- Front handrail, over radiator
- Mudguards
- Platform guard, RH
- Spill guard, 12" 300 mm
- Tire guard, LH and RH
- Transmission underguard

### MONITORING SYSTEM, ELECTRONIC DISPLAY ITEMS:

- Instrument panel gauges
  - Coolant temperature
  - Hour meter (Service meter)
  - Retarder oil temperature
  - Speedometer with odometer
  - Tachometer
  - Torque converter oil temperature
- Warning lights
  - Engine coolant temperature
  - Engine coolant level
  - Engine oil pressure
  - Parking brake
  - Retarder oil temperature
  - Torque converter oil temperature

### OTHER:

- Angled front stairs with hand rails
- Automatic retarder speed control (ARSC)
- Centralized lube block
- Dump counter
- Ecology guidance and ecology gauge
- Fast-fill coupler for fuel tank
- Filler cap and cover lock
- Front brake cut-off system
- Hydropneumatic suspension (front & rear)
- Less body (must select body)
- Mirror, rearview, underview
- PM Service connector
- Rock ejector bar
- Vandalism protection kit
- KOMTRAX Plus® telematics package with integrated payload meter (PLM), satellite communication and WiFi
- Wheel chock with storage bracket



## OPTIONAL EQUIPMENT

### BODY:

- Body
- Body liner
- With body heat arrangement
- Without body heat arrangement

### TIRES (24.00 R35):

- Michelin XDTB
- Bridgestone VRLS
- Michelin X-Quarry
- Michelin X-Traction Super Terrain

Standard equipment may vary for each country. This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your Komatsu distributor for detailed information.

AESS912-00

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AD09(Electronic View Only)

09/16 (EV-1)

# KOMATSU®

*Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.*

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