



### **OFF-HIGHWAY TRUCK**



#### HORSEPOWER

Gross: 1200 HP 895 kW @ 1900 rpm Net: 1140 HP 849 kW @ 1900 rpm RATED PAYLOAD 101.6 US tons 92.2 metric tons **BODY CAPACITY** Heaped (SAE 2:1): 78.5 yd<sup>3</sup> 60.0 m<sup>3</sup>

### WALK-AROUND

#### **PRODUCTIVITY FEATURES**

- Automatic Retard Speed Control (ARSC) allows the operator to set and maintain a constant downhill travel speed
- High performance Komatsu SAA12V140E-7 engine (net 1,140 HP/849 kW) provides high productivity on grade
- Komatsu Traction Control System (KTCS) monitors for wheel spin and automatically applies brakes independently for optimum traction in various ground conditions
- No use of Selective Catalytic Reduction (SCR) or Diesel Exhaust Fluid (DEF)
- Oil cooled, multiple-disc brakes on all four wheels provide high retarding capability (1,770 HP/1320 kW)
- Seven-speed, fully automatic K-ATOMiCS transmission with 2 selectable reverse speeds and skip shift function
- Tight turning radius: 10.1 m 33' 2"
- · Variable Geometry Turbocharger (VGT) is hydraulically actuated to provide optimum air flow under various speed and load conditions



Photos may include optional equipment.

#### HORSEPOWER

Gross: 1200 HP 895 kW @ 1900 rpm Net: 1140 HP 849 kW @ 1900 rpm

#### RATED PAYLOAD

101.6 US tons 92.2 metric tons

#### **BODY CAPACITY** Heaped (SAE 2:1): 78.5 yd<sup>3</sup> 60.0 m<sup>3</sup>

### **PRODUCTIVITY AND EFFICIENCY**

The Komatsu SAA12V140E-7 engine provides high performance on grade and oil cooled, multiple disc brakes on all four wheels provide high retarding capability. A new, upgraded cab with standard KomVision all around machine monitoring system keeps operators comfortable and productive during long shifts.

#### **OPERATOR ENVIRONMENT**

- Air suspension, heated & ventilated operator seat with three-point seat belt and standard trainer seat with lap belt
- Automatic climate control system
- Diagonal access stairway with handrails for easy access
- · Front and rear hydropneumatic suspension provides a smooth ride
- Heated rearview mirrors
- KomVision provides bird's-eye view utilizing 6-camera system on dedicated display
- LED head lamps (high and low beam), side lamps, and rear combination lamps
- Machine monitor with high resolution 7-inch color LCD display
- · Rearview monitoring system on dedicated display
- Viscous cab mounts for a quiet, comfortable ride

#### **ECOLOGY AND ECONOMY**

- Auto Idle Setting System (AISS) for quick machine warm up
- Auto Idle Shutdown helps reduce idle time and operating costs
- Energy savings operation ecology guidance
- · Hydraulically operated, reversible fan
- Komatsu SAA12V140E-7 engine is EPA Tier 4 Final emissions certified
- · Mode selection system with variable horsepower control

#### **RELIABILITY FEATURES**

- 10-10-20 payload policy
- Engine pre-lubrication system
- · High rigidity frame
- Integrated Payload Meter (PLM)
- Robust dump body design

#### **MAINTENANCE FEATURES**

- Advanced monitoring system with onboard diagnostics, no laptop required
- Anchored tie off points (ISO 14567) around the machine provide technicians locations to attach service lanyards
- Centralized ground level access arrangement of filters and greasing points
- Fast fuel fill coupler
- Ground level battery isolator, starter isolator and machine immobilization
   switch with lockout / tagout capabilities
- Ground level service center for fluid fill and evacuation
- Jump start receptacle
- KOMTRAX Plus allows remote access to maintenance and performance information
- Modular radiator core system





# **ECOLOGY AND ECONOMY FEATURES**

#### **NEW ENGINE TECHNOLOGIES**

#### Komatsu's New Emission Regulation-compliant Engine

Komatsu provides a powerful and economical U.S. EPA Tier 4 Final compliant engine with the latest emission control technologies and fuel saving features.

Momatsu Diesel Particulate Filter (KDPF)
Variable Geometry Turbocharger (VGT)
Exhaust Gas Recirculation (EGR) cooler



#### **Heavy-Duty Aftertreatment System**

The Komatsu Diesel Particulate Filters (KDPFs) capture more than 90% of Particulate Matter (PM). The KDPFs include a special oxidation catalyst to facilitate decomposition of most PM without operator action and no need to interrupt normal operation.



#### Variable Geometry Turbocharger (VGT) System

The VGT system uses proven, Komatsudesigned hydraulic technology for variable control of airflow, and supplies optimal air based on load conditions.



#### Heavy-Duty Cooled Exhaust Gas Recirculation (EGR) System

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures. The system dramatically reduces NOx and lowers fuel consumption.



#### High Pressure Common Rail (HPCR) Fuel Injection System

The system is designed to achieve an optimal injection of highpressure fuel via computerized control, providing near-complete combustion to reduce PM emissions.



#### **Energy Saving Operation**

To support efficient operation, an easy-to-read ecology gauge is included in the machine monitor. The ecology gauge indicates momentary fuel consumption rate during operation. Operating the vehicle with the gauge in the green zone ensures the most energy efficient operation.

The monitor provides ecology guidance to the operator to help promote energy saving operation.

For example, if the operator stops the machine for a long period of time with the engine idling, the monitor will display the message "Avoid long time engine idling".



#### **Low Fuel Consumption**

Latest Komatsu "on demand" energy saving technologies achieve lower fuel consumption while keeping high productivity.

- Variable displacement piston pumps for steering and hoist circuits
- Improved transmission control hydraulic pressure management
- Controlling engine output according to hydraulic drive fan rotation speed and maintaining constant net output

#### Brake Cooling Oil Recovery Tank

Brake cooling oil recovery tanks are installed on all four wheels to recover brake cooling oil in the event of brake floating seal leakage.



#### Auto Idle Shutdown

When the engine is idling for a certain amount of time (adjustable from five to 60 minutes), the engine automatically stops to reduce unnecessary fuel consumption and exhaust emissions.



#### **Selectable Operating Modes**

The operator can choose between two operating modes, Economy mode or Power mode, according to machine operating conditions.



#### **Power mode**



The Power mode increases the engine maximum output and raises the upshift and downshift engine speeds during operation.

#### Economy mode

The Economy mode lowers the engine maximum output along with lowering the upshift and downshift engine speeds during operation.

#### Variable Horsepower Control

Both in Power and Economy modes, the Variable Horsepower Control system automatically detects whether the machine is loaded or unloaded and selects the optimum horsepower setting mode, providing both high production and low fuel consumption.



# **PERFORMANCE FEATURES**

#### High Performance Komatsu SAA12V140E-7 Engine

The powerful and fuel-efficient SAA12V140E-7 engine delivers **1,200 HP** (895 kW) at 1900 rpm. This contributes to fast acceleration on grade and shorter cycles times for high productivity.



#### Long Wheelbase and Wide Tread

With an extra-long wheelbase, a wide tread, and an exceptionally low center of gravity, the HD785-8 hauls at higher speeds for greater productivity and delivers superior driving comfort over rough terrain.

#### **Small Turning Radius**

McPherson strut type front suspension has a special A-arm between each wheel and the main frame. The wider space created between the front wheels and the main frame increases the turning angle of the wheels. The larger turning angle provides a smaller turning radius for the truck.

#### Minimum Turning Radius: 33'2" 10.1 m

Turning radius varies depending on ground conditions and/or vehicle speed.



### Fully Hydraulic Controlled Wet Multiple-Disc Brakes and Retarder

Wet multiple-disc brakes on all four wheels ensure highly reliable and stable brake performance. The large-capacity, continuously-oil-cooled, multiple-disc brakes also function as a highly responsive retarder, which gives which gives the operator greater confidence at higher downhill speeds.

Retarder Absorbing Capacity: 1,770 HP 1320 kW



#### Komatsu Advanced Transmission with Optimum Modulation Control System (K-ATOMiCS) with Skip Shift Function

The transmission has 7 forward and 1 reverse shift. The reverse gear has 2 selectable gear ratios (high/low) to meet various operating conditions. Fully automatic control selects the optimum gear according to vehicle



speed and the engine speed. The shift point automatically changes depending on the acceleration of the vehicle, avoiding unnecessary fuel consumption.

#### **Skip Shift Function**

The skip shift function automatically selects a gear position depending on the grade. This eliminates the need to shift down through each gear when traveling uphill. It also reduces the number of downshifts, resulting in a smoother ride, improving operator comfort, and reducing material spillage.



#### Automatic Retard Speed Control (ARSC)

ARSC allows the operator to set the downhill travel speed at a constant speed. This allows the operator to concentrate on steering. The speed can be set at increments of **0.6** mph 1 km/h per click (+/- **3.1 mph** 5 km/h of maximum speed adjustment) to match the optimum speed for the slope. The retarder cooling oil is continuously monitored and the travel speed is automatically lowered if the oil temperature increases to a set limit.



NOMAISU

#### Automatic Idling Setting System (AISS)

This system facilitates quick engine warm-up and operator cab cooling/warming. When setting the system ON, engine idle speed is kept at 945 rpm, but is lowered to 650 rpm when the coolant temperature rises. Speed automatically returns to 945 rpm when the coolant temperature drops.



#### Komatsu Traction Control System (KTCS)

New KTCS ensures optimum traction in soft or wet road conditions. The system monitors for wheel slippage at the rear axle, and an acceleration sensor determines if a high speed turn or wheel slippage is occurring.

If slippage is detected, the brakes are applied independently to each wheel set for optimum traction. This function occurs automatically without operator input and steering performance is not compromised as with a differential lock system.



ASR: Automatic Spin Regulator

# **OPERATOR COMFORT**



#### **Ergonomically Designed Cab**

The ergonomically designed operator's compartment provides the operator a convenient control layout and comfortable environment for more comfortable operation and greater productivity.



#### **Air Suspension Seat**

The heated and ventilated, air suspension seat is adjustable to the operator's weight. The air suspension seat dampens vibrations transmitted from the machine to reduce operator fatigue. A three-point operator seat belt is standard.

#### **Trainer Seat**

The trainer seat includes a two-point retractable seat belt. Seat comfort has been significantly improved.

#### Automatic Climate Control System

The automatic climate control system allows the operator to easily set and maintain the desired cab ambient temperature. Excellent heating/cooling capacity and air flow keep the cab environment comfortable throughout the year.

#### **Tilt-Away and Telescoping Steering Column**

The tilt steering column and telescopic steering wheel allow the operator to set the steering wheel to the desired position. The tilt mechanism incorporates a spring assist for easy adjustment.



#### Radio with Bluetooth, AUX, & USB

The AM/FM radio is equipped with bluetooth, aux, and usb inputs allowing the operator to connect to the speakers in the cab.



#### **Storage Spaces**

Generous storage spaces are provided throughout the cab including a glove box, lunch box tray, hot or cool box, and cup holder.



Lunch box tray



Hot or cool box, cup holder

#### Low Noise Design

The spacious cab is mounted with large-capacity viscous mounts. The low-noise engine, hydraulically-driven cooling fan, cab sealing design, and double cab floor structure provide a quiet, low-vibration, and comfortable operating environment.

#### Noise Level at Operator's Ear



#### **DC12V** Outlet

Two DC12V outlets are standard in the operator's cab. A 12 V cigarette lighter is located on the front side of the center console and an additional 12 V outlet is located on the rear cover behind the operator seat.



(DC12V)
- AUX terminal
- DC12V electrical
outlet

Cigarette lighter



#### **Electronic Hoist Control**

The hoist control lever can be operated with minimal effort. A "kick-out function" eliminates the need to hold the lever in the raise position. Body seating shock is significantly reduced by the use of a positioning sensor that reduces the lowering speed just before the body seats on the main frame.



Nitrogen gas

### Rear Hydropneumatic Suspension

The hydropneumatic suspension provides a smoother ride over rough terrain to maximize production and operator comfort.

### McPherson Strut Type Front Suspension

McPherson strut type independent suspension is used on the front wheels. The linkage arrangement is a low friction design that allows the front wheels to follow uneven road

surfaces smoothly for a comfortable ride. The A-arm design significantly reduces turning radius for increased maneuverability and production.





### **GENERAL FEATURES**



#### KomVision, All Around Monitoring System

The 6-camera system provides the operator with a bird's-eye view of the working area around the machine on a dedicated monitor located in the dash. Two screen mode allows the bird's-eye view and any of the 6 cameras to be viewed simultaneously on the monitor.



Operation switches KomVision monitor



Rear view monitor



#### **Rear View Monitor System**

The operator can view behind the vehicle on the dedicated monitor located in the upper right corner of the cab. This monitor can be always ON, or only when the shift lever is in the reverse position. Visual distance guidelines can be added for the operator's convenience.



Rear view monitor



Rear view camera

KomVision camera

#### Built-in ROPS/FOPS Cab

Operator cab structure conforms to ISO 3471 ROPS standard, and ISO 3449 FOPS Level II standard.



### Secondary Engine Shutdown Switch

A secondary engine shutdown switch is located in the cab for emergency use.



#### **LED Lighting Package**

LED lamps are standard for the head lamps (high & low beam), turn signals/hazard lamps, side working lamps, and rear combination lamps. The LED lamps feature a long service life and excellent visibility. Halogen

fog lamps are standard.

turn signal & hazard lamps -



Rear combination lamps

Head lamp (Low beam) -

Fog lamp

Head lamp (High beam)

#### Diagonal Access Stairway

The low angle diagonal stairway provides easy access to the cab and deck. Ladders with gates and handrails are provided on both the left and right sides as secondary egress.

#### **Dimpled Slip-Resistant Plates**

Stairways and walkways are made with dimpled, slip-resistant plates for better traction.



#### **Secondary Steering**

The secondary steering system is automatically activated if the steering circuit hydraulic pressure lowers due to a hydraulic system failure. This can also be activated manually by the secondary steering switch in the cab. The pilot lamp on the LCD monitor tells the operator that the system is operable when turning the key switch on.



Manual secondary steering switch

#### **Secondary Brake**

Secondary brakes are a standard feature. This system is operated by the use of the left brake pedal and utilizes an independent hydraulic circuit to simultaneously apply the front and rear parking brakes.



#### **Protection Functions Supported by Electronic Control**

Item	Function
Downshift inhibitor	Even if the driver downshifts accidentally, current transmission gear is kept until the vehicle speed becomes appropriate to the selected gear for preventing over-runs.
Over-run inhibitor	When descending grades, if the vehicle's speed surpasses the maximum speed for the current gear, the rear brakes are automatically activated, preventing over-runs.
Reverse inhibitor	The vehicle is prevented from shifting to reverse gear when operating the body.
Forward/Reverse shift inhibitor	This device makes it impossible to shift from/to forward to/from reverse when the vehicle's speed exceeds 4 km/h.
Anti-hunting system	When running near the shift point, the system prevents unnecessary shift up and down for smooth traveling.
Neutral safety	The engine is prevented from starting when the shift lever is not in neutral.
Neutral coast inhibitor	It prevents gear position from shifting to neutral while traveling over a certain speed, even if the shift lever is moved to neutral position.

# TECHNOLOGY

#### MACHINE MONITOR WITH LARGE HIGH RESOLUTION LCD UNIT

#### **Machine Monitor**

The machine monitor displays machine information and provides access to machine settings.

#### **Switch Panel**

The switch panel is used to select various LCD screens and the air conditioner control screen. By using the switch panel, users can display user menus on the LCD screen and access machine settings and conditions. A keypad provides simple and easy navigation to machine operation information.

#### Large Multi-Lingual LCD Monitor

A large, user-friendly color monitor provides excellent screen visibility via a liquid crystal display that is easily read at various angles and lighting conditions.



#### **Switch Panel**

1) Air conditioner (A/C) switches / Numeral key pad

2 Function switches

#### **Maintenance Reminders**

When the time remaining to the next scheduled maintenance is less than the preset hours\*, the maintenance time monitor appears. \*The time can be set in the 10 to 200 hour range.



#### **Visual User Menu**

Pressing the menu switch on the switch panel displays the user menu screen. The menus are grouped by their functions. Easy-to-understand icons enable intuitive use.



#### Maintenance screen



#### **Troubleshooting Function**

ച

Various meters, gauges, and warning functions are centrally arranged on the LCD unit. This unit facilitates the

start-up inspection and promptly warns the operator with a lamp and a buzzer if any abnormality occurs. Each abnormal condition is indicated in one of four recommended action levels.





#### **1** Energy saving guidance

- Operation records
- Ecology guidance records
- Average fuel consumption record
- Configurations
- 2 Machine setting / information
  - Radiator fan reverse mode

KTCS setting etc.

- **3** Aftertreatment devices regeneration
  - Setting regeneration disable
  - Operation of manual stationary regeneration

#### 4 Maintenance

· Check and reset of various maintenance remainings

#### 5 Monitor setting

- Language setting (27 languages)
- Rear view monitor setting
- Measurement unit setting
- Screen brightness adjustment etc.
- 6 Mail check

# **RELIABILITY FEATURES**

#### **High-rigidity Frame**

Cast-steel components are used in critical areas of the main frame where loads and stress is most concentrated.



#### **Robust Dump Body Design**

The standard dump body is made of high-tensile strength steel for excellent rigidity and low maintenance cost. Major portions of the interior surface are made of abrasion resistant, HB400 steel for excellent wear characteristics. The V-bottom design contributes to the structural strength and enhanced machine stability by centering the load at a lower center of balance. The side and bottom plates of the dump body are reinforced with lateral and longitudinal bolsters.

The standard body is non heated. A body heat conversion kit and a steel liner package are available as options.



#### **Payload Policy**

#### Purpose

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. Following this policy will provide the best combination of productivity and machine longevity.

#### Criteria

- 1) Monthly average payload must not exceed the target payload of the truck.
- 2) No less than 90% of all loads must be up to 110% of the target payload of the truck.
- 3) No more than 10% of all loads may be between 110% and 120% of the target payload of the truck.
- 4) Any single load must not exceed 120% of the target payload of the truck.



Target payload: Rated gross vehicle weight - Empty vehicle weight



#### **Integrated Payload Meter** (PLM)

PLM is a tool to manage the payload of each hauling cycle and to analyze the production volume and the working conditions of the dump truck for a specified period of time. Loaded weight is indicated on

the payload display (on the LCD monitor) and by the external display lamps in real time while loading. Daily and monthly total payload, dump count, average payload, and overload count can be viewed via KOMTRAX. Cycle by cycle data is



External display lamp



available via download at the machine or via wireless LAN.

# **MAINTENANCE FEATURES**

#### **Grouped Filters**

Filters are grouped for easy service.





Hydraulic oil return filter

Brake cooling oil filter ----



#### **Electric Circuit Breaker**

Circuit breakers are used for important electric circuits that need to be restored quickly if a problem occurs in the electrical system.



#### Centralized Greasing Points

Grease points are centralized at three locations.



Electric Priming Pump Electric engine priming pump is standard.



#### **Ground Level Service Center**

A ground level service center is located at the bottom of the steering / hoist tank. Engine oil, transmission / brake cooling

oil, brake control oil, and steering / hoist oil filling ports are accessible in one location for quick preventative maintenance servicing.





Transmission and brake cooling oil

#### Battery / Starter Isolators, Machine Immobilization Switch, and Emergency Engine Stop Switch

Lockable battery and starter isolators are accessible from the ground level at the bottom of the diagonal stairway. A machine immobilization switch allows the engine to run, but disables steering / hoist operation and prevents the parking brake from being released. The emergency engine stop switch can be used to shutdown the engine in an emergency situation.



Emergency Engine Stop Switch

#### **Extended Oil Change Intervals**

Long oil change intervals minimize operating cost.

- Engine oil 500 hours
- Hydraulic oil 4,000 hours
- Transmission oil 1,000 hours

#### **Reversible Fan**

The radiator fan is hydraulically driven and reversible. The fan reverse mode can be controlled from the monitor.

Ø € → ∞ E ⊠ Machine Setting and Information	
Radiator Fan Reverse Mode	Normal
😕 Payload Meter	
Reverse Travel Odometer	0. 0 km
🔚 Trip Meter	0. 0 km
F 1 Start at D Position Setting	F 1



#### **Modular Radiator Core System**

The radiator assembly consists of five lead-free aluminum cores that can be independently replaced without removing the entire assembly.



#### Wheel Chocks

Light weight resin wheel chocks are standard equipment and accessible from ground level underneath the diagonal stairway.





### KOMTRAX EQUIPMENT MONITORING



- 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
   Iowering owning and operating cost



 KOMTRAX is standard equipment on all Komatsu construction products



- 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





- 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



- 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



# **K@MTRAX 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

NAR.	
	ENGINE

Water-cooled, four-cycle
arged, after-cooled, cooled EGR
165 mm <b>6.50"</b>
30.48 ltr <b>1,860 in<sup>3</sup></b>
Gross 895 kW <b>1,200 HP</b>
Net 849 kW 1,140 HP
1900 rpm
Hydraulic
517 kg•m <b>3,739 ft lbs</b>
Direct injection
Electronically controlled
Gear pump, force-lubrication
Full-flow type
. Dry type with double elements,
precleaner and evacuator valve

\*EPA Tier 4 Final emissions certified

#### 

Torque converterT	hree-elements, one-stage, two-phase
Transmission	
Speed range S	even speeds forward and two reverse
Lockup clutch	Wet, multiple-disc clutch
Forward	Torque converter drive in 1st gear,
direct	drive in 1st lockup and all higher gears
ReverseToro	que converter drive and direct (lockup)
Shift control	Electronic shift control with automatic
	clutch modulation in all gears
Maximum travel speed	65.0 km/h <b>43.4 mnh</b>

#### Maximum travel speed.....h

#### 

Rear axle	
Final drive type	Planetary gear
Ratios:	
Differential	
Planetary	

#### **SUSPENSION SYSTEM**

Rear axle oscillation:	
Oil stopper	5.3°
Mechanical stopper	6.0°

#### STEERING SYSTEM

Туре	Fully hydraulic power steering
	with two double-acting cylinders
Secondary steering	Automatic/Manual control
	(Meets ISO 5010 and SAE J1511)
Minimum turning radius	
Maximum steering angle	



Standard......FOPS (ISO 3449 level II), ROPS (ISO 3471)



Brakes meet ISO 3450 standards.
Service brakes:
Front Fully hydraulic control, caliper disc type
Rear Fully hydraulic control, oil-cooled multiple-disc type
Parking brakeSpring applied, multiple-disc type
Retarder Oil-cooled, multiple-disc front and
rear brakes act as retarder
Secondary brakeManual pedal operation
when hydraulic pressure drops below the rated level,
parking brake is automatically actuated
Brake surface:
Front
Rear71858 cm <sup>2</sup> <b>11,138 in<sup>2</sup></b>



......Box-sectioned structure



#### BODY

Capacity: Struck	3 3 5
Bottom	a
Front12 mm <b>0.47</b> '	
Sides 9 mm 0.35	
Target area (inside length x width). 7070 mm x 5150 mm <b>23' 2" x 16' 11'</b> Height at full dump10080 mm <b>33' 1'</b> HeatingExhaust heating	"

### .35

#### 

5	,	0		
Relief pressure	.20.6 MPa	210 kg/cm <sup>2</sup>	2,990	psi
Hoist time		-	11.5	sec

#### 

000	WEIGHT (APP	ROXIMATE)
Rated ei	mpty vehicle weight	73800 kg <b>162,701 lbs</b>
Rated g	ross vehicle weight.	166000 kg <b>365,967 lbs</b>
Weight o	distribution:	
Empt	ty: Front axle	
	Rear axle	
Load	ed: Front axle	
	Rear axle	
SA		

S

tandard	tire	 	 27.00 R4	۶9
$\sim$				

### SERVICE REFILL CAPACITIES

Fuel tank	1322 ltr <b>349.2 U.S. gal</b>
Engine oil	138 ltr <b>36.5 U.S. gal</b>
Torque converter, transmission and	
retarder cooling	530 L <b>140.0 U.S. gal</b>
Differential	
Final drives (total)	116 L <b>30.6 U.S. gal</b>
Hydraulic system	385 L 101.7 U.S. gal
Suspension (total)	92.6 L <b>24.5 U.S. gal</b>

# SPECIFICATIONS

### DIMENSIONS



#### **TRAVEL PERFORMANCE**



#### **BRAKE PERFORMANCE**

GRADE DISTANCE: CONTINUOUS DESCENT



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

HD785-8

STANDARD EQUIPMENT FOR BASE MACHINE

#### ENGINE AND RELATED COMPONENTS

- Air cleaner, double element with restriction indicator (qty 2)
- Auto Idle Shutdown
- Automatic Idling Setting System (AISS)
- Electric priming fuel pump
- Engine, KOMATSU SAA12V140E-7, 12 cylinder, turbocharged, after cooled, EGR cooled, diesel Gross HP: 1200 HP (895 kW) / 1900 RPM (SAE J1995) Net HP: 1140 HP (849 kW) / 1900 RPM (ISO 9249 / SAE J1349)
- Engine pre-lubrication system
- Engine secondary shutdown switch
- Fan, hydraulically driven, reversibleKomatsu diesel particulate filter (KDPF)
- (qty 2) • Radiator, lead free, modular core

#### ELECTRICAL SYSTEM

- Alternator, 140 amp, 24 volt
- Back-up alarm
- Batteries, 4 x 12V
- Battery isolator
- Electric circuit breakers, 24V
- Emergency stop switch, ground level
- Horn, electric
- Lights
- Access ladder lamps
- Back-up Lamps, rear
- Engine compartment lamp
- Fog lamps
- Head lamps, high and low beam, LED
- Side working lamps, LH & RH, LED
- Stop and tail Lamps, LED
- Turn signals, hazard warning, front & rear, LED
- Starter isolator
- Starting motors, 2 x 11.0 kW, electric

#### POWER TRAIN AND CONTROLS

- 7-speed transmission, fully automatic, (7F, 2R)
- Brake cooling oil recovery tank
- Brakes, oil cooled, multiple disc, hydraulically controlled, front & rear
- Komatsu Traction Control System (KTCS)

### 

#### BODY

- Dump body, 78.5 yd<sup>3</sup>
- Steel liners for rock body (78.5 yd<sup>3</sup>)
- Body heating kit

- TIRES
- Michelin XDR2B (qty 6)
- Bridgestone VMTP (qty 6)
- OTHERS
- Cold weather package (electric heaters for engine oil & coolant heater)

19

- Neutral coast inhibitor
- Parking brake, integrated in front & rear brakes
- Retarder, automatic & manual
  Secondary brake, pedal actuated, variable
- Skip shift function
- Speed limiter
- Torque converter with electronic lockup control

#### **OPERATOR ENVIRONMENT**

- Cab with built-in ROPS/FOPS (ISO 3471/ISO 3449)
- 12V outlet (qty 2)
- Automatic climate control system with cab pressurization
- Body hoist control, electric
- Cigarette lighter and ashtray
- Cup holder
- Door, LH & RH
- KomVision camera system with dedicated monitor
- Machine monitor with 7" color LCD display
- Mode selection system with Variable Horsepower Control (VHPC)
- Operator seat, air suspension, heated, ventilated with 3-point 3" retractable seat belt
- Power windows, LH & RH
- Radio, AM/FM with aux input, USB, & bluetooth
- Rearview mirror, outside cab mount, heated (qty 2)
- Rearview monitoring system with dedicated monitor
- Secondary steering, automatic & manual
- Steering wheel, tilt and telescopic
- Sunvisor (aty 2)
- Tinted glass with electric defogger
- Trainer seat with 3" retractable lap belt
- Underview mirror
- Wiper/washer, windshield (intermittent)
- Diagonal access stairway

#### **GUARD AND COVER GROUP**

- Cab & platform guard
- Catwalk with handrails, skid resistant
- Driveline guards, front & rear
- Engine side covers
- Engine underguard
- Exhaust thermal guard
- Fire safety shield (located behind engine)
- Mud flaps
- Rock ejector bars
- Transmission underguard

#### OTHER STANDARD EQUIPMENT

- Anchor points, tie off type (ISO 14567)
- Automatic Retard Speed Control (ARSC)
- Dump counter
- Ecology guidance and ecology gauge
- Fast fill coupler for fuel tank
- Filler cap lock & cover lock
- Ground level service center
   -Centralized KOWA sampling
   -Fluids ports

Machine immobilization switch

• Overrun warning and prevention

Rims for 27.00 R49 tires with large

Overload prevention system

Overturn warning system

• PM service connectors

bore valve stems (qty 6)

Safety pins (qty 2)

Wheel chocks (qty 2)

- Transmission, engine, brake control, steering and hoist oil
- Hydropneumatic Suspension, Front & Rear
- Jump start receptacle
- KOMTRAX Plus®

Payload meter



AESS936-00

©2019 Komatsu America Corp.



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

www.komatsuamerica.com

Komatsu America Corp. is an authorized licensee of Komatsu Ltd. Materials and specifications are subject to change without notice

12/19 (EV-2)

KOMATSU<sup>®</sup>, Komatsu Care<sup>®</sup>, KOMTRAX<sup>®</sup>, KOMTRAX Plus<sup>®</sup> and KomVision<sup>®</sup> are registered trademarks of Komatsu Ltd. All other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu America Corp. or their respective owners or licensees.

**Electronic View Only**