

Distributor:	Linder Machinery
Item# 35	

KOMATSU HM300-5 ARTICULATED HAUL TRUCK BUILD SHEET

Standard Equipment for Base Machine

Engine and its related items:

Alternator, 90Amp, 24 Volt
 Air cleaner: dry type with double elements and
 precleaner, plus dust indicator
 Batteries 2x12 Volt, 200 Ah
 Engine, Komatsu SAA6D125E-7, 11.0 L displacement
 direct injection system, Komatsu variable geometry
 turbocharger, aftercooled, EPA Tier 4 Final emission
 certified, diesel
Gross HP: 333 HP (248 kW) / 2000 RPM
 Flywheel HP: 325 HP (242 kW) / 2000 RPM
 Full-automatic F6 R2 Transmission
 with K-ATOMIC shift control
 with automatic T/C lock-up
 Hydraulic driven cooling fan, for after-cooler
 Hydraulic driven cooling fan, for radiator
 KDPF - After-Treatment Assembly Consisting of KDOC and KCSF
 Selective Catalytic Reduction (SCR) system
 Starting motor, 7.5 kW
 Two mode engine power system (Economy and Power modes)

Operator Environment

ROPS cab w/FOPS, Level 2
 (73 dBA), with viscous mounts support
 12 volt outlet port
 Air conditioner/heater/defroster, electronically controlled
 Ashtray and 12 volt cigarette lighter
 Cup holder
 Electronic hoist control system
 Electronic maintenance display/monitoring system
 Floor mat
 Radio AM/FM, with auxiliary jack
 Rear window guard
 Seat belt, operator's, 3 point, 3" width, retractable
 Seat, air suspension, reclining (fabric)
 Seat, passenger's, with 3" seat belt
 Secondary engine stop switch
 Tilt and telescopic steering wheel
 Tiltcab arrangement for easy service
 Window, power type, left side
 Window, sliding, right side
 Windshield washer and wiper (front and rear)

Lighting System

Back-up light
 Hazard light system
 Headlights, front
 Stop, tail and turn signal lights, LED type
 Working lights, front and left/right side

Special arrangements

Ambient Temperature Range, -20°C (-4°F)
 through +45°C (+113°F) at maximum standard elevation
 of 2,300 meters (7,546 ft.)

PayLoad

30.9 US Tons

Body Capacity

22.4 cubic yds

KOMATSU®

HM300-5

Tier 4 Final Engine

ARTICULATED TRUCK



Photos may include optional equipment.

HORSEPOWER

Gross: 332 HP 248 kW
Net: 324 HP 242 kW

PAYLOAD

30.9 US tons 28.0 metric tons

BODY CAPACITY

Heaped (SAE 2:1): 22.4 yd³ 17.1 m³



PRODUCTIVITY ON DEMAND

Komatsu Traction Control System (KTCS) automatically engages the inter axle lock and the KTCS braking to provide optimal traction in soft ground conditions.

Selectable working modes for Economy and Power allow machine performance to be adjusted depending on operator's demand and operating conditions.



Komatsu SAA6D125E-7 variable geometry turbocharged and after-cooled 11.04 liter diesel engine is EPA Tier 4 Final emissions certified.

- Heavy duty Selective Catalytic Reduction (SCR) system
- Diesel Exhaust Fluid (DEF) system
- Komatsu Diesel Particulate Filter (KDPF) system
- Heavy duty cooled Exhaust Gas Recirculation (EGR) system
- Electronic control system - seamless to the operator
- Variable Geometry Turbocharger (VGT) system
- Heavy duty High Pressure Common Rail (HPCR) fuel injection system

Variable Geometry Turbocharger (VGT) uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Fluid neutral or better

Fuel & DEF total consumption is less than fuel consumed by prior model.

Advanced diagnostic system continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Large LCD color monitor panel:

- 7" high resolution screen
- Provides "Ecology Guidance" for fuel efficient operation

Wide, spacious cab with excellent visibility:

- Center-located operator's seat
- Short nose design
- The rounded engine hood provides improved front visibility.
- Color rearview monitoring system
- The wide cab offers a comfortable operator and passenger environment

For operator comfort:

- Low noise cab through improved sealing with integrated floor.
- Interior noise level 73 dB(A)
- Air suspension seat
- Radio with AUX terminal

The **KOMTRAX®** telematics system is standard on Komatsu equipment with no subscription-fee's throughout the life of the machine. Using the latest wireless technology, **KOMTRAX®** transmits valuable information such as location, utilization, and maintenance records to a PC or smart-phone app. Custom machine reports are provided for identifying machine efficiency and operating trends. **KOMTRAX®** also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

Komatsu designed, electronically controlled transmission for a comfortable ride.

F6-R2 counter-shaft type transmission with K-ATOMICS (Komatsu Advanced Transmission with Optimum Modulation Control System).

High capacity, reliable, continuously cooled, wet type multiple-disc brakes and retarder:

- Fully hydraulic controlled wet multiple-disc brakes
- Retarder absorbing capacity (continuous descent) 392 kW 526 HP

Hydro-pneumatic suspension for all terrains.

The hydro-pneumatic suspension on both front and rear suspensions assures a comfortable ride even over rough terrain.

Easy-to-load body:

- Heaped capacity 17.1 m³ 22.4 yd³
- Low loading height 2830 mm 9'3"
- High strength body constructed of thick wear-resistant steel having 400 Brinell hardness.

WORKING ENVIRONMENT

HM300-5



Ergonomic Comfort

Ergonomically designed curved dashboard allows switches to be arranged so that they are in easy reach of the operator.

Machine monitor



Color rear view monitor



Multi-switch panel



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KOMATSU WA270-8 BUILD SHEET

Engine and related items:

Air cleaner, dry-type, two stage, radial sealed
 Engine shut-off system, electric with key
 Engine, KOMATSU SAA6D107E-3, 6 cylinder turbocharged, air to air
 after cooled, cooled EGR, direct injection Tier 4 Final interim emissions
 certified, diesel.

Gross HP: 154HP (114.5kW) / 2000 RPM

Net HP: 149HP (113kW) / 2000 RPM (SAEJ1349) ISO / 9249

Net HP: 135HP (101kW) / 1500 RPM Hydraulic fan at max speed

Exhaust pipe, curved

Fan, auto-reverse, hydraulic driven

KDPF - After-Treatment Assembly Consisting of KDOC and KCSF

Komatsu Auto Idle Shutdown

SCR - Selective Catalytic Reduction aftertreatment with

DEF tank and heated lines

Starting aid, intake air preheater type

Electrical system:

Alternator, 60 ampere, 24 volt

Back-up alarm

Batteries, 2 x 12 volt, (92 Ah), (680 CCA)

Battery disconnect switch

Horn, electric

Lights

- Back-up light, rear, LED
- Sealed DT electrical connectors
 - Starting motor, 5.5kW direct electric, 24V
- Stop and tail light, LED
- Turn signal, (2 front, 2 rear) with hazard switch
- Working lights, halogen (2 front, high low
beam with indicator, fender mount, 2 rear grill mount
- Working lights, halogen (2 front)
outside of cab mount

Power Train and Controls:

Differentials, torque proportioning, inboard planetary

Parking brake, wet disc type

Service brakes, hydraulic, wet multiple disc type,
axle by axle (inboard)

Transmission, hydrostatic, 1 pump, 2 motors, full auto
shift with speed range control

Transmission control

- F/R: steering column / loader control lever selectable
- Max speed control: electric, 4 speed F/R
- Traction control: electric, 3 mode

Operator environment:

Cab, (ROPS/FOPS) (installed), includes; adjustable arm
rests, adjustable work equipment levers, cigarette lighter/
ashtray, dome light, electrically heated rear window, air
conditioner / heater / defroster / pressurizer, floor mat,
front (intermittent) and rear wiper/washer, rearview mirrors
(2 outside, 2 inside), right hand and left hand door access
with steps and sunvisor

Hydraulic control, 2 spool (boom/bucket), multi-function mono lever
control, with integrated transmission F/R switch and includes
integrated third spool proportional switch (3 spool is optional)

Monitor, 7 inch, LCD, color

Radio, AM/FM with speakers and auxiliary jack

Rear view monitor

Seat, heated air suspension type, reclining with armrests (fabric)

Seat belt, 3" width, retractable

Steering wheel, tilttable, telescopic

Bucket:

3.0yd Pin On Bucket w/ Bolt on Edge

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**

✓ WHO

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

✓ 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

✓ 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®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D125E-7*
 Type.....Water-cooled, 4-cycle
 Aspiration.....Turbo-charged, after-cooled, cooled EGR
 Number of cylinders.....6
 Bore.....125 mm **4.92"**
 Stroke.....150 mm **5.91"**
 Piston displacement.....11.0 ltr **671 in³**
 Horsepower:
 SAE J1995.....Gross 248 kW **332 HP**
 ISO 9249 / SAE J1349.....Net 242 kW **324 HP**
 Rated rpm.....2000 rpm
 Fan drive type.....Hydraulic driven
 Maximum torque.....171 kg•m **1,237 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, plus dust indicator

*EPA Tier 4 Final emissions certified



TRANSMISSION

Torque converter.....3-elements, 1-stage, 2-phase
 Transmission.....Full-automatic, counter-shaft type
 Speed range.....6 speeds forward and 2 reverse
 Lockup clutch.....Wet, single-disk clutch
 Forward.....Torque converter drive in 1st gear,
 direct drive in 1st lockup and all higher gears
 Reverse.....Torque converter drive and direct drive in all gear
 Shift control.....Electronic shift control with automatic
 clutch modulation in all gear
 Maximum travel speed.....58.6 km/h **36.4 mph**



AXLES

Full time all wheel drive with Komatsu Traction Control System (K-TCS)
 Final drive type.....Planetary gear
 Ratios:
 Differential.....3.154
 Planetary.....4.667



SUSPENSION SYSTEM

Front.....Hydro-pneumatic suspension
 Rear.....Combined hydro-pneumatic
 and rubber suspension system



STEERING SYSTEM

Type.....Articulated type, fully hydraulic power steering
 with two double-acting cylinders
 Secondary steering.....Automatically actuated,
 electrically powered
 Standard.....ISO5010, SAE J1511
 Minimum turning radius, wall to wall.....8.10 m **26' 7"**
 Articulation angle.....45° each direction



CAB

Standard.....ISO3449 (FOPS)
 ISO3471 (ROPS)



BRAKES

Service brakes.....Full-hydraulic control, oil-cooled
 multiple-disc type on front and center axles
 Standard.....ISO3450
 Parking brake.....Spring applied, caliper disc type
 Retarder.....Front and center axle brakes act as retarder



MAIN FRAME

Type.....Articulated type, box-sectioned
 construction on front and rear
 Connected by strong torque tubes.



BODY

Capacity:
 Struck.....13.4 m³ **17.5 yd³**
 Heaped (2:1, SAE).....17.1 m³ **22.4 yd³**
 Payload.....28.0 metric tons **30.9 U.S. tons**
 Material.....130 kg/mm² **184,925 psi**
 high tensile strength steel
 Material thickness:
 Bottom.....14 mm **0.55"**
 Front.....8 mm **0.31"**
 Sides.....12 mm **0.47"**
 Target area
 (inside length x width).....5250 mm x 2685 mm **17' 3" x 8' 10"**
 Heating.....Exhaust heating (option)



HYDRAULIC SYSTEM

Hoist cylinder.....Twin, telescopic type
 Relief pressure.....30.4 MPa 310 kg/cm² **4,409 psi**
 Hoist time.....10.5 sec



WEIGHT (APPROXIMATE)

Empty weight.....25,395 kg **55,986 lbs**
 Gross vehicle weight.....53,475 kg **117,892 lbs**
 Weight distribution:
 Empty: Front axle.....58.9%
 Center axle.....22.5%
 Rear axle.....18.6%
 Loaded: Front axle.....30.8%
 Center axle.....36.0%
 Rear axle.....33.2%



TIRES

Standard tire.....23.5 R25



SERVICE REFILL CAPACITIES

Fuel tank.....388 ltr **102.5 U.S. gal**
 DEF tank.....32.8 ltr **8.7 U.S. gal**
 Engine oil.....35 ltr **9.2 U.S. gal**
 Torque converter, transmission and
 retarder cooling.....80 ltr **21.1 U.S. gal**
 Differentials (total).....71.5 ltr **18.9 U.S. gal**
 Final drives (total).....23 ltr **6.1 U.S. gal**
 Hydraulic system.....103 ltr **27.2 U.S. gal**
 Suspension (total).....10.4 ltr **2.7 U.S. gal**

EQUIPMENT



STANDARD EQUIPMENT FOR BASE MACHINE

- Air cleaner, dry type, double elements
- Air cleaner dust level indicator
- Air pre-cleaner
- Alternator, 90 A, 24 V
- Alarm, backup
- Anti-slip material on fenders
- Auxiliary steering system, automatic, electric
- Back-up lamp
- Batteries, 2 x 12 V/200 Ah
- Battery disconnect
- Centralized greasing
- Color rear view camera and monitor
- Coolant temperature alarm and lamp
- Dump counter
- Ecology Guidance
- Electronic hoist control system
- Electric circuit breaker, 24 V
- Electric priming fuel pump
- Electronic pump for hydraulic tilt cab
- Engine, Komatsu SAA6D125E-7
- Engine underguard
- Engine shutdown secondary switch
- Front view mirror
- Full-automatic F6-R2 transmission with lock-up torque converter & K-ATOMIC shift control
- Hazard lamps
- Hand rails for platform and ladder
- Headlights, front (high and low)
- Heated rearview mirrors, LH and RH side
- Horn, electric
- Hydraulic driven cooling fan, for after cooler
- Hydraulic driven cooling fan, for radiator
- Hydropneumatic suspension, front and rear
- Interaxle lockup, wet disc clutch type, controlled by KTCS
- Komatsu Traction Control System (KTCS)
- Komatsu Diesel Particulate Filter (KDPF)
- KOMTRAX®
- Ladders LH side
- Mud guards
- Parking brake
- Payload Meter (PLM)
- Protective grille for rear window
- Propeller shaft guards, front and rear
- Provision for tailgate
- Retarder/brake system
- Rims for 23.5 x 25, set of 6
- ROPS/FOPS cab Level 2
 - 2 x DC12V electrical outlets
 - 12V cigarette lighter
 - Air conditioner/Heater/Defroster
 - AM/FM radio with AUX terminal
 - Ashtray
- Color LCD/TFT multi-monitor
- Cup holder
- Floor mat
- Operator seat, reclining, air suspension type with 3-point retractable seat belt, 76 mm 3" width lap belt, 50 mm 2" width shoulder belt
- Passenger seat with 2-point retractable seat belt, 76 mm 3" width
- Power window (LH)
- Space for lunch box
- Sliding window (RH)
- Steering wheel, tilt and telescopic
- Sun visor, front window
- Tilttable ROPS cab with FOPS, sound suppression type
- Windshield washer and wiper, front and rear
- Selective Catalytic Reduction (SCR) system
- Starting motor, 7.5 kW
- Steering joint locking assembly
- Step (right side)
- Stop, tail, and turn signal lamps (LED)
- Tool box
- Transmission underguard
- Two mode engine power system (Economy and Power)
- Variable Geometry Turbocharger (VGT)
- Work lamps, LH and RH side



OPTIONAL EQUIPMENT

- 23.5 x 25 tires
- 750/65 R25 rims
- 750/65 R25 tires
- Body, 17.1 m³ **22.4 yd³**
- Body, exhaust heated, 17.1 m³ **22.4 yd³**
- Tail gate, scissors type