

KOMATSU®

D375A-8

Tier 4 Final Engine

CRAWLER DOZER



Photos may include optional equipment.

NET HORSEPOWER

Forward: 609 HP 455 kW @ 1800 rpm
Reverse: 748 HP 558 kW @ 1800 rpm

OPERATING WEIGHT

161,840 lb
73410 kg

BLADE CAPACITY (ISO 9246)

Semi-U Dozer: 24.2 yd³ 18.5 m³
Full-U Dozer: 28.8 yd³ 22.0 m³

WALK-AROUND

D375A-8



Photos may include optional equipment.

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INCREASED PRODUCTIVITY & OPERATOR COMFORT

The D375A-8 can push *more material* per shift. Increased engine power in reverse yields *shorter cycle times* to produce significant *productivity gains*.

Operator comfort was a leading design concept for the D375A-8. An all *new suspension, reengineered cabin, and improved visibility* keep operators productive throughout long shifts.



Tier 4 Final Emission Certified Engine

- Komatsu's New U.S. EPA Tier 4 Final emission regulation-compliant engine **NEW**
- Auto idle stop function **NEW**

Performance

- 20% more power in reverse can increase productivity and reduce cycle times **NEW**
- Automatic transmission with lockup torque converter
- Selectable working modes
- Automatic/manual gearshift selectable modes

Operator Comfort

- Ride comfort enhancements
 - Equalizer bar shoulder pads **NEW**
 - Increased minor bogie oscillation **NEW**
 - Larger cab damper mounts **NEW**
 - New heated/ventilated operators seat with improved suspension & cushioning **NEW**
- Excellent visibility to the blade and ripper **NEW**
- All new, ergonomic work environment and ripper levers **NEW**
- Rearview monitor system
- Electronic height adjuster for steering console **NEW**

Access

- Rear platform and guard rails **UPGRADE**
- Heavy-duty steps and large hand rails **UPGRADE**
- Secondary engine shutdown switch **NEW**
- Seat belt caution indicator **NEW**
- Power ladder (Optional) **NEW**

Reliability & Maintenance

- Robust main and track frame **NEW**
- Long life powertrain design
- Mesabi radiator*
- Swing-out fan for easy access to radiator core **NEW**
- Centralized greasing points
- Concentrated sampling points
- Maintenance Service Center for oils and coolants, with quick-fill couplings
- Battery and starter isolator
- Emergency engine stop switches

Information & Communication Technology (ICT)

- Machine monitor with high resolution seven-inch LCD monitor **NEW**
- Energy Saving Operation **NEW**

KOMTRAX Plus®

- Equipment Management Support System
- Reduce maintenance costs and achieve high equipment availability

* Mesabi radiator is a registered trademark of L&M Radiator, Inc.

** All comparisons are to the prior model, unless otherwise stated.

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D170E-7
 Type 4-cycle, water-cooled, direct injection
 Aspiration Turbocharged, air-to-air charge air cooler, cooled EGR
 Number of cylinders 6
 Bore x stroke 170 mm x 170 mm **6.69" x 6.69"**
 Piston displacement 23.15 L **1,143 in³**
 Governor Mid-range, electronic
 Horsepower:

SAE J1995 Gross: Forward 474 kW **636 HP**
 Reverse 578 kW **775 HP**

ISO 9249 / SAE J1349* Net: Forward 455 kW **609 HP**
 Reverse 558 kW **748 HP**

Rated rpm 1800 rpm

Fan drive type Hydraulic

Lubrication system:

Method Gear pump, force lubrication

Filter Full-flow

*Net horsepower at the maximum speed of radiator

cooling fan Forward/reverse 432/536 kW **580/719 HP**

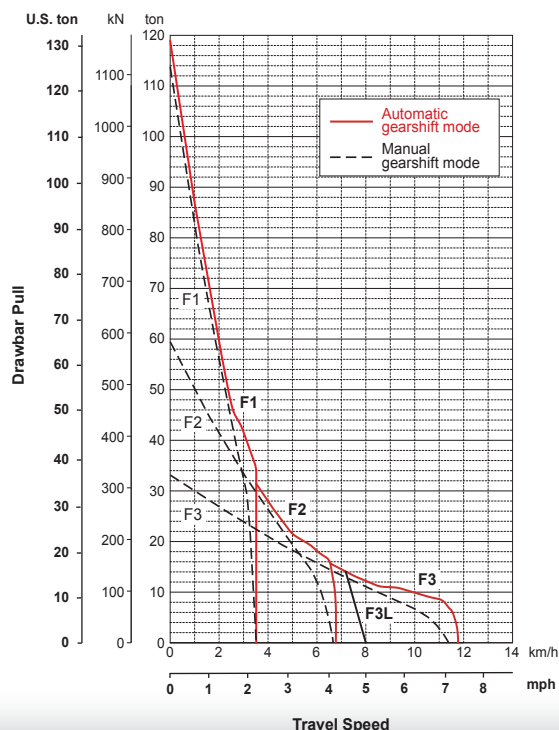
U.S. EPA Tier 4 Final emission certified.



TORQFLOW TRANSMISSION

Komatsu TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 1-phase torque converter with lockup clutch and a planetary gear, multiple-disc clutch transmission which is hydraulically actuated and force-lubricated for optimum heat dissipation. Gearshift lock lever and neutral safety switch prevent accidental starts.

Gear	Forward		Reverse	
1st	3.5 km/h	2.2 mph	4.6 km/h	2.9 mph
2nd	6.8 km/h	4.2 mph	8.9 km/h	5.5 mph
3rd L	8.0 km/h	5.0 mph	9.7 km/h	6.0 mph
3rd	11.8 km/h	7.3 mph	15.8 km/h	9.8 mph



FINAL DRIVES

Double-reduction final drive of spur and planetary gear sets to increase tractive effort and reduce gear tooth stresses for long final drive life. Segmented sprocket teeth are bolt-on for easy replacement.



STEERING SYSTEM

Palm Command Control System (PCCS), joystick controlled, wet multiple-disc steering clutches are spring-loaded and hydraulically released. Wet multiple-disc, pedal/lever controlled steering brakes are spring-actuated hydraulically released and require no adjustment. Steering clutches and brakes are interconnected for easy, responsive steering.

Minimum turning radius 4.2 m **13'9"**



UNDERCARRIAGE

Suspension Oscillating equalizer bar with shoulder pad and pivot shaft

Track roller frame Cylindrical, high-tensile-strength steel construction

Rollers and idlers Lubricated track rollers

Komatsu Bogie (K-Bogie) undercarriage:

Lubricated track rollers are resiliently mounted to the track frame with a bogie suspension system whose oscillating motion is cushioned by rubber pads.

Extreme service track shoes:

Lubricated tracks. Unique seals prevent entry of foreign abrasives into pin to bushing clearances to provide extended service life. Track tension is easily adjusted with grease gun.

Number of shoes (Each side) 41

Grouser height (Single grouser) 93 mm **3.7"**

Shoe width (Standard) 610 mm **24"**

Ground contact area 48,560 cm² **7,527 in²**

Ground pressure (Tractor) ... 113 kPa 1.16 kg/cm² **16.4 psi**

Number of track rollers 8

Number of carrier rollers 2

Extreme Service Shoes	Additional Weight	Ground Contact Area	Ground Pressure**
610 mm 24"	0 kg 0 lb	48,560 cm ² 7,527 in²	148.3 kPa 1.51 kg/cm ² 21.5 psi
710 mm 28"	680 kg 1,500 lb	56,520 cm ² 8,760 in²	128.6 kPa 1.31 kg/cm ² 18.6 psi
810 mm 32"	1,360 kg 3,000 lb	64,480 cm ² 9,994 in²	113.7 kPa 1.16 kg/cm ² 16.5 psi

** Ground pressure based on tractor, strengthened dual tilt Semi-U dozer blade, giant ripper, cab, ROPS, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.



COOLANT AND LUBRICANT CAPACITY (REFILL)

Fuel tank 1200 L **317.0 U.S. gal**

Coolant 145 L **41.5 U.S. gal**

Engine 86 L **21.1 U.S. gal**

Torque converter, transmission,
 bevel gear, and steering system 150 L **39.6 U.S. gal**

Final drive (Each side) 65 L **16.1 U.S. gal**

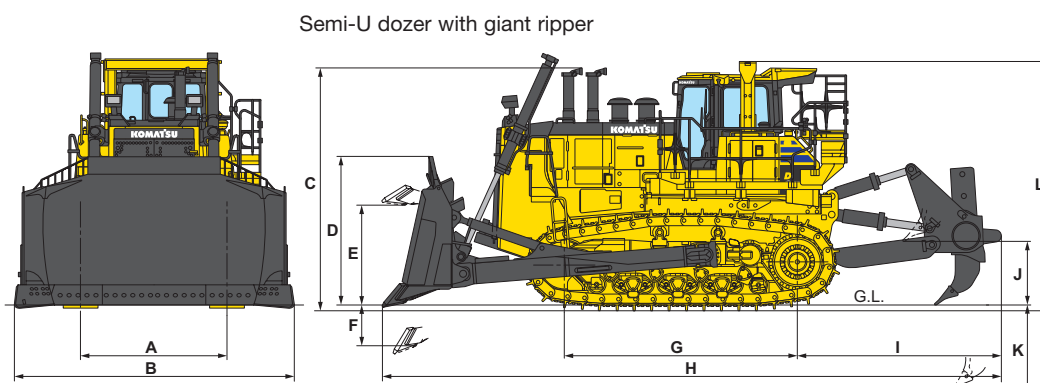


DIMENSIONS

A	8' 2"	2500 mm
B	15' 8"	4775 mm
C	13' 8"	4160 mm
D	8' 3"	2525 mm
E	5' 7"	1690 mm
F	2' 5"	734 mm
G	13' 1"	3980 mm
H	34' 8"	10560 mm
I	11' 4"	3460 mm
J	3' 8" *1	1120 mm*1
K	4' 11" *2	1485 mm*2
L	14' 0"	4278 mm

*1 Maximum lift above ground

*2 Maximum drop below ground Ground clearance: 2' 0" 610 mm



OPERATING WEIGHT

Tractor weight 56340 kg **124,210 lb**
Including rated capacity of lubricant, coolant, full fuel tank,
operator, and standard equipment.

Operating weight 73,410 kg **161,840 lb**
Including strengthened dual tilt Semi-U dozer blade, giant ripper,
24" extreme service shoes, cab, ROPS (ISO 3471), operator,
standard equipment, rated capacity of lubricant, coolant, and
full fuel tank.

Ground pressure 148 kPa 1.51 kg/cm² kPa **21.5 psi**



HYDRAULIC SYSTEM

Hydraulic control unit:

Closed-center load sensing system (CLSS) designed for
precise and responsive control, and for efficient simultaneous
operation.

Hydraulic control unit:

All spool control valves externally mounted beside the
hydraulic tank. Variable piston pump with capacity (Discharge
flow) of 96.7 U.S. gal/min 366 L/min for implement at rated
engine rpm.

Relief valve setting for implement 29.8 MPa 304 kg/cm²
4,322 psi

Control valves:

Spool control valve for Semi-U tilt dozer and U tilt dozer.

Positions: Blade lift Raise, hold, lower, and float

Blade tilt Right, hold, and left

Additional control valve required for variable digging angle
multi-shank ripper and giant ripper.

Positions: Ripper lift Raise, hold, and lower

Ripper tilt Increase, hold, and decrease

Hydraulic cylinders Double-acting, piston

	Number of Cylinders	Bore	
Blade Lift	2	140 mm	5.5"
Blade Tilt (Single tilt)	1	200 mm	7.9"
Blade Tilt (Dual tilt)	2	200 mm	7.9"
Ripper Lift	2	200 mm	7.9"
Ripper Tilt	2	180 mm	7.1"

Hydraulic oil capacity (Refill):

Semi-U dozer or U dozer 130 L **34.3 U.S. gal**

Ripper equipment (Additional volume):

Giant ripper 45 L **11.9 U.S. gal**

Multi-shank ripper (Variable) 45 L **11.9 U.S. gal**



DOZER EQUIPMENT

Blade capacities are based on the ISO recommended practice 9246.

	Overall Length with Dozer	Blade Capacity (ISO 9246)	Blade Length x Height with Spill Guard Height	Maximum Lift above Ground	Maximum Drop below Ground	Maximum Tilt Adjustment	Weight		Ground Pressure*
							Dozer Equipment	Hydraulic Oil	
Strengthened Dual Tilt Semi-U Dozer	7855 mm 25' 9"	18.5 m ³ 24.2 yd ³	4775 mm x 2525 mm 15' 8" x 8' 3"	1690 mm 5' 7"	734 mm 2' 5"	1170 mm 3' 10"	11,440 kg 25,220 lb	50 kg 110 lb	148 kPa 1.51 kg/cm ² 21.5 psi
Strengthened Dual Tilt U Dozer with Spill Guard	8215 mm 26' 11"	22.0 m ³ 28.8 yd ³	5215 mm x 2525 mm 17' 1" x 8' 3"	1690 mm 5' 7"	734 mm 2' 5"	1280 mm 4' 2"	12,490 kg 27,536 lb	50 kg 110 lb	150 kPa 1.53 kg/cm ² 21.8 psi

*Ground pressure shows tractor with cab, ROPS (ISO 3471), variable giant ripper, 24" extreme service shoes, standard equipment and applicable blade.



STANDARD EQUIPMENT FOR BASE MACHINE

- Air conditioner with heater and defroster
- Alternator, 140 Ampere, 24V
- Auto idle stop system
- Auto/manual gearshift selectable modes
- Auto pitch blade control
- Auto ripper return
- Back-up alarm
- Batteries, 2 x 12 V, 160Ah
- Blade lift cylinder, large capacity
- Blower cooling fan
- Canister style breathers
- Centralized greasing
 - Blade cylinder yoke
 - Ripper
- Circuit breaker panel w/ push button resets
- Closed-center load sensing system (CLSS)
- Cold weather -30C specification
- Color monitor
- Concentrated sampling points
- Decelerator pedal
- Double wiper for cab door
- Dual tilt blade hydraulics
- Dry-type air cleaner with dust evacuator and dust indicator
- Eight-roller track frames
- Electrical dust indicator
- Engine precleaner w/ above the hood air intake pipe
- Engine prelubrication system
- Exhaust pipe with rain cap
- Final drive case wear guard
- Heavy duty DT connectors
- High altitude arrangement
- High mount head lights
- Hinged underguards with front pull hook
- Horn, warning
- Hydraulic track adjusters
- Isolator box, battery and starter
- Jump start receptacle
- KOMTRAX Plus® with Iridium/Orbcomm
- Lighting system
 - Access Lighting
 - Engine room lamp
 - LED lighting package
 - High mount on hood (2)
 - Front fender mount (2)
 - Additional cab mount (4)
 - Rear fender mount (2)
 - Ripper point light
- Lunch box holder
- Maintenance Service Center
- Mirror, rearview
- Oil level sensors (engine & hyd.)
- PCCS lever steering control
- Perforated side covers
- Platform with hand rails and toe boards
- PM service connectors
- Radiator, Mesabi (L&M)
- Radiator reserve tank
- Radio, AM/FM and AUX
- Rearview camera
- ROPS:*
 - Weight: **1,280 lb** 580 kg
 - Width: **6' 5"** 1,967 mm
 - Height:** **6' 1"** 1,863 mm
- * Meets ISO 3471 standards
- ** Compartment floor to ceiling
- Seat
 - Air suspension type, heated and ventilated, fully adjustable, tilt and lumbar
- Seat belt, 3" retractable
- Segmented sprockets
- Starting motors, 22 kW (2 x 11kW), 24V
- Steering, clutch and brake
- Stop system, emergency (2)
- Swingout radiator fan
- TORQFLOW transmission, 3F/3R
- Torque converter with lock-up clutch
- Track frame, 8 track rollers, 2 carrier rollers
- Track roller guards
- Track shoe slip control
- Two muffler with rain cap
- Uninterrupted power source for 3rd party system
- Vandalism protection kit
- Wet steering clutches
- Wiggins Drains - Rear Maintenance Service Center for hyd. oil, eng. oil, T/M oil, and eng. coolant
- Wiggins fast fuel fill



OPTIONAL EQUIPMENT

- Blade Semi-U Strengthened Dual Tilt
 - Blade Full-U Strengthened Dual Tilt
 - Counterweight: 4,736 kg **10,441 lb**
 - Extreme service shoes
 - 610 mm **24"**
 - 710 mm **28"**
 - 810 mm **32"**
 - Extreme service shoes w/ extreme cold link assemblies
 - 610 mm **24"**
 - 710 mm **28"**
 - General tool kit
 - Optional tilt cylinder spacer kit
 - Power ladder
 - Short stroke tilt cylinder
 - Spare parts for first service
 - Straight frame assembly, dual tilt, less blade
- Multi-shank ripper**
Hydraulically controlled ripper with three shanks. Ripping angle is steplessly adjustable.
- Weight (Including hydraulic control unit and oil) 6430 kg **14,176 lb**
Beam length 2910 mm **9' 7"**
Max. lift above ground . . 1155 mm **3'10"**
Max. digging depth . . . 1140 mm **4' 11"**
- Variable giant ripper**
Variable, parallelogram single-shank ripper ideal for ripping up tough material. Ripping angle is variable. Ripping depth is adjustable in three stages by a hydraulically controlled pin puller.
- Weight (Including hydraulic control unit and oil) 5210 kg **11,486 lb**
Beam length 1600 mm **5' 3"**
Max. lift above ground . . 1120 mm **3' 8"**
Max. digging depth . . . 1485 mm **4' 11"**

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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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