D375A-3 KOMATSU®



Operating Weight 66740 kg **147,160 lb**

Net Horsepower 391 kW 525 HP



D375A-3
SPECIFICATIONS

CRAWLER DOZER

D375A-3 Crawler Dozer

MAYTK-YJKONND

Komatsu-integrated design for the best value, reliability, and versatility. Hydraulics, power train, frame, and all other major components are engineered by Komatsu. You get a machine whose components are designed to work together for higher production, greater reliability, and more versatility.

The *Dual Tilt Dozer* (option) increases productivity while reducing operator effort. See page 7.



D375A-3

NET HORSEPOWER 391 kW **525 HP** @ 1800 rpm

OPERATING WEIGHT 66740 kg **147,160 lb**

BLADE CAPACITY

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

New Hexagonal Designed Cab includes:

- Spacious interior
- Excellent visibility
- High capacity air conditioning system
- Compact joystick controls
- Pressurized cab (optional)
- Adjustable left armrest



Low-drive, long-track, seven roller undercarriage ensures outstanding grading ability and stability.

durability, and operator comfort. See page 6.

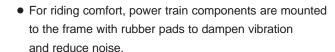
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Operator Comfort

Operator comfort is essential for safe and productive work. The D375A-3 provides the operator with a quiet, comfortable environment where they can concentrate on the work at hand.

Hexagonal Pressurized Cab

- The cab's new hexagonal design provides excellent front, side, and rear visibility.
- A suspension seat with reclining backrest improves riding comfort.
- Air filters and a higher internal air pressure combine to prevent dust from entering the cab.
- The viscous damper-type cab suspension, combined with the REU softens shocks for greater operating comfort.
- The compact joystick controls allow smooth entrance and exit from the uncluttered cab. The left armrest is adjustable



• The fuel control lever is conveniently located.

Viscous Dampers

The cab mounts combine silicone oil and rubber to lessen vibration and shocks for improved operator comfort.





Joystick Control Levers

The left joystick requires only small movements to precisely control all steering and directional changes. A simple twist of the left joystick provides quick gear changes. The right joystick controls all blade functions. All blade and ripper controls are proportional pressure controls (PPC) for low effort and short stroke operation. The machine's quick response to joystick movement provides the operator with the feeling of natural control.

Monitor

Conditions of both check-before-starting items and caution items appear on the liquid crystal panel.

The continuous condition check helps prevent the development of serious problems and allows the operator to concentrate his attention on the controls.

Low Machine Profile

The low-profile design assures excellent machine balance and a low center of gravity. These combine to make the D375A-3 stable and controllable, giving the operator greater confidence and comfort.



All controls are conveniently located for greater operator efficiency





SEWINKE2 BRODUCIINILA

Engine

The Komatsu SA6D170E engine delivers 391 kW **525 HP** and **1,931 ft-lb** of torque at 1800 rpm. These features, together with the heavy machine weight, make the D375A-3 a superior crawler dozer in both ripping and dozing production. The engine is designed to surpass EPA/CARB regulations, and features direct fuel injection, a turbocharger, and an aftercooler to maximize fuel efficiency.

To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions. For further convenience, fuel adjustment is unnecessary up to an altitude of 3000 m **9,840** ft.

Resilient Equalized Undercarriage (REU)

The REU system provides powerful traction, component durability, and operator comfort. Outstanding traction can be achieved because the shoes always follow the contour of the ground. The X-shaped, bogie-structured resilient equalized undercarriages perform independent see-saw movements. To decrease vibration and shock, rubber shock absorbers are mounted on the X-shaped bogies. The bogies and rubber cushions provide different absorption characteristics depending on the ground surface. When the machine travels on flat ground, the REU functions as a conventional rigid undercarriage. When the machine travels on uneven ground, the REU maximizes the suspension effect.





Large Blade

Capacities of 18.5 m³ **24.2 yd³** (Semi-U dozer) and 22.0 m³ **28.8 yd³** (U dozer) yield outstanding production. High-tensile-strength steel comprising the front and sides of the blade increases durability. The variable giant ripper features a long sprocket center-to-ripper point distance, making ripping operation easy and effective while maintaining high penetration force.

Automatic Torque Converter Lockup System

For greater efficiency during long pushes, the lockup mode allows the system to automatically engage the torque converter lockup clutch. Locking up the converter transmits all the engine power directly to the transmission, increasing ground speed thus achieving efficiencies equal to a direct drive. The result is efficient use of engine power, less fuel consumption, and faster cycle times.

Dual Tilt Dozer (option)

The dual tilt dozer increases productivity while reducing operator effort.

- Optimum blade cutting angle for all types of materials and grades can be selected on-the-go for increased load and production.
- Digging, hauling, and dumping are easy and smooth with less operator fatigue.
- Dozer tilt angle and tilt speed are twice that of a conventional single tilt system.

Rippers (option)

- The variable giant ripper is a parallelogram single shank ripper ideal for ripping up tough material. The ripping angle is variable, and the depth is adjustable in three stages by a hydraulically controlled pin puller.
- The multi-shank ripper is a hydraulically controlled parallelogram ripper with three shanks. The ripping angle is adjustable from 32.5° to 55.5°.



MAIM.LEMAMCE EV2A

Preventative Maintenance

Preventative maintenance is the only way to ensure long service life from your equipment. That's why Komatsu designed the D375A-3 with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Centralized Service Station

To assure convenient maintenance, the transmission and torque converter oil filters are both arranged next to the power train oil level gauge.

Enclosed Hydraulic Piping

Hydraulic piping for the blade tilt cylinder is completely housed in the push arm ensuring damage protection from materials.

Modular Power Train Design

Power train components are sealed in a modular design that allows the components to be dismounted and mounted without oil spillage, making servicing work clean, smooth, and easy.

Oil Pressure Checking Ports

Pressure checking ports for power train components are centralized to promote quick and simple diagnosis.

Wet disc brakes account for less maintenance.



SPECIFICATIONS



ENGINE

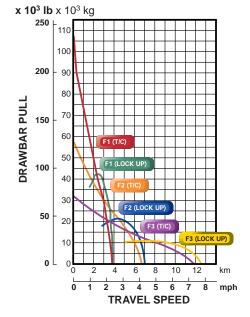
Model
No. of cylinders
Bore x stroke
Piston displacement
Horsepower rating @ 1800 rpm
Gross power (SAE J1349) 427 kW 573 HP
Net power (SAE J1349)
Governor All-speed, mechanical
Lubrication system
Method Gear pump, force lubrication
Filter Full-flow



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	3.8 km/h	2.4 mph	5.1 km/h	3.2 mph
2nd	6.8 km/h	4.2 mph	9.2 km/h	5.7 mph
3rd	11.8 km/h	7.3 mph	15.8 km/h	9.8 mph





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 rims are bolt-on for easy replacement.



STEERING SYSTEM

Single lever, joystick-controlled, wet multiple-disc steering clutches are spring-loaded and hydraulically released. Wet multiple-disc 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 and pivot shaft
Track roller frame	Cylindrical, high-tensile-strength
	steel construction
Rollers and idlers	Lubricated track rollers

Resilient Equalized Undercarriage

Lubricated track rollers are resiliently mounted to the roller frame with a series of X-type bogies 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.

No. of shoes (each side)	40
Grouser height:	
Single grouser	93 mm 3.7 "
Shoe width (standard)	610 mm 24 "
Ground contact area	46766 cm ² 7,248 in²
Ground pressure	. 1.42 kg/cm ² 20.3 psi
No. of track rollers	
No. of carrier rollers	

Extreme service shoes	Additional weight	Ground contact area	Tractor ground pressure
710 mm	660 kg	54541 cm ²	1.23 kg/cm ²
28"	1,460 lb	8,456 in ²	17.57 psi
810 mm	1330 kg	62332 cm ²	1.09 kg/cm ²
32 "	2,930 lb	9,664 in ²	15.53 psi



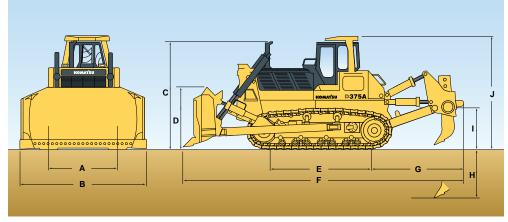
COOLANT AND LUBRICANT CAPACITY (REFILL)

Fuel tank	277 U.S. gai
Coolant	43.6 U.S. gal
Engine	13.5 U.S. gal
Torque converter, transmission,	
bevel gear, and steering system150 ltr	39.6 U.S. gal
Final drive (each side) 57 ltr	15.1 U.S. gal



SEMI-U DOZER WITH GIANT RIPPER

Α	2500 mm	8'2"
В	4695 mm	15'5"
С	4045 mm	13'3"
D	2265 mm	7'5"
E	3840 mm	12'7"
F	10060 mm	33'0"
G	3450 mm	11'4"
Н	1435 mm	4'8"
1	1060 mm	3'6"
J	4230 mm	13'11"



Ground Clearance: 610 mm 2'0"



OPERATING WEIGHT





HYDRAULIC SYSTEM

Hydraulic control unit:

 Maximum flow
 405 ltr 107 U.S. gal/min

 Relief valve setting
 210 kg/cm² 2,990 psi

- All spool control valves are externally mounted on the hydraulic tank.
- Multi-chamber gear hydraulic pump.
- Flows are combined for maximum implement speed or divided for simultaneous use of multiple functions.

Control valves:

- Two control valves for straight-tilt dozer and U-dozer
 Positions: Blade lift Raise, hold, lower, and float
 Blade tilt. Right, hold, and left

(digging angle) $\ldots\ldots$. Increase, hold, and decrease

Hydraulic cylinders Double-acting, piston

	Number of cylinders	Bore
Blade lift	2	150 mm 5.9 "
Blade tilt	1	225 mm 8.9 "
Ripper lift	2	225 mm 8.9 "
Ripper tilt	2	200 mm 7.9 "

Hydraulic oil capacity (refill):

Ripper equipment (additional volume):

unla) Increase hold and decrease



DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265.

	Overall			Maximum	Maximum	Maximum	Weight	ght	Adjustment
	length with dozer	Blade capacity	Blade length x height	lift above ground	drop below ground	tilt adjustment	Dozer equipment	Hydraulic oil	to ground pressure*
Semi-U	7635 mm	18.5 m ³	4695 mm x 2265 mm	1660 mm	715 mm	1065 mm	10490 kg	50 kg	0.00 kg/cm ²
dozer	25'1"	24.2 yd ³	15'5" x 7'5"	5'5"	2'4"	3'6"	23,130 lb	110 lb	0.00 psi
U-dozer	8000 mm	22.0 m ³	5140 mm x 2265 mm	1660 mm	715 mm	1165 mm	11740 kg	50 kg	+0.01 kg/cm ²
	26'5 "	28.8 yd ³	16'10" x 7'5 "	5'5"	2'4"	3'10"	25,880 lb	110 lb	+ 0.12 psi
Dual tilt	7635 mm	18.5 m ³	4695 mm x 2265 mm	1660 mm	715 mm	1150 mm	10870 kg	50 kg	+0.03 kg/cm ²
Semi-U dozer	25'1"	24.2 yd ³	15'5" x 7'5"	5'5"	2'4"	3'9 "	23,960 lb	110 lb	+ 0.37 psi
Dual tilt	8000 mm	22.0 m ³	5140 mm x 2265 mm	1660 mm	715 mm	1260 mm	12120 kg	50 kg	+0.04 kg/cm ²
U-dozer	26'5 "	28.8 yd ³	16'10" x 7'5 "	5'5"	2'4 "	4'2 "	26,720 lb	110 lb	+ 0.49 psi

^{*}From operating weight



- Alternator 50 A/24 V
- Auto-priming system
- Backup alarm
- Batteries 170 Ah/2 x 12V
- Blower fan
- Decelerator pedal
- Dry-type air cleaner with dust evacuator and dust indicator
- Provision for fast fuel fill
- Final drive case wear guard

- Hinged front mask
- Hinged underguard with front pull hook
- Hydraulic track adjusters
- · Lighting system (including four front and two rear lights)
- Lockup torque converter
- Muffler with rain cap
- Oil-suspension seat with seat belt
- Radiator reserve tank
- ROPS brackets
- Segmented sprockets

- Shoes, 610 mm 24" extreme service, single-grouser
- Single lever steering control
- Six-roller track frames
- Starting motors 2 x 24V
- TORQFLOW transmissions
- Track roller guards
- Vandalism protection kit
- Warning horn
- Wet steering clutches



OPTIONAL EQUIPMENT

- · Air conditioner with heater and defroster
- Alternator 75 A
- Batteries 200 Ah/2 x 12V
- Counterweight
- Cushion push block
- Cushion dozer
- Dual tilt dozer
- Fabric seat

- Fan. reversible
- Fire extinguisher
- Hydraulics for ripper
- Lift for ripper
- Mirror, rearview
- Perforated side covers
- Perforated single radiator mask

- Pusher plate
- Radiator core protection grid
- Shoes: 710 mm 28", 810 mm 32"
- Sun visor
- Strengthened Semi-U blade
- Strengthened U blade



ROPS canopy:*

Height from	
compartment floor	1867 mm 6'2 '
*Meets ISO 3471 and SAE J1040	, APR88, ROPS

Weight 670 kg 1,480 lb

standards, as well as ISO 3449 FOPS standards ROPS canopy must be ordered for all machines.

415 kg 910 lb
790 mm 5'10 "
1455 mm 4'9 "
1530 mm 5'0 "

Multi-shank ripper:

Hydraulically controlled parallelogram ripper with three shanks. Ripping angle adjustable from 32.5° to 55.5°.

Weight (including hydraulic

control unit) 6720 kg 14,810 lb
Beam length 2854 mm 9'4"
Maximum lift above ground 1050 mm 3'5"
Maximum digging depth 1075 mm 3'6"



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) 547	'0 kg 12,060 l	lk
Beam length	1367 mm 4'6	ò'
Maximum lift above ground	1060 mm 3'6	ò'
Maximum digging depth	1435 mm 4'8	3'

Komatsu Mining Systems

Comprehensive Solutions, Exceptional Value, and **Remarkable Service from One Source: Komatsu Mining** Systems, Inc.

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Featured machines may include optional or special equipment. Materials and specifications are subject to change without notice.



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