# KOMATSU

D475A-8 Crawler dozer



## Net horsepower

Forward 664 kW (890 HP) @ 2,000 rpm Reverse 722 kW (968 HP) @ 2,000 rpm

## **Operating weight**

115 300 kg (254,195 lbs.)

### **Blade capacity (ISO9246)**

Semi-U dozer: 27.2 m³ (35.6 yd³) U dozer: 34.4 m³ (44.5 yd³) Super dozer: 45.0 m³ (58.9 yd³)

# Versatile mining dozer designed for power, stability and performance



Safety



Reliability



**Productivity** 



Engineered to help you move more material at a lower cost per ton than previous models, the D475A-8 dozer was designed for production with a focus on power, stability and solid performance. It features a unique automatic lockup torque converter designed to efficiently transfer power to the driveline for higher travel speeds and shorter cycle times — which can deliver high production while minimizing fuel consumption.

We relied on customer feedback in redesigning the D475A-8 dozer, and you said you wanted added reliability and more operator comfort. So we focused on making the main frame, track frames and push group tougher, as well as comfort-oriented changes to the undercarriage and operator's cab.

#### **Quick benefits**

- Up to 10% more productive than previous models
- Over 11% more engine power in the reverse direction versus the forward direction
- 10% reduction in fuel consumption with automatic transmission/lockup torque converter compared to operation in manual gearshift mode

### **Quick specs**

- Operating weight: 115 300 kg (254,195 lbs.)
- Net horsepower: Forward 664 kW (890 HP)
   @ 2,000 rpm
- Net horsepower: Reverse 722 kW (968 HP)
   @ 2,000 rpm
- Blade capacity: Semi-U dozer: 27.2 m³ (35.6 yd³)
   U dozer: 34.4 m³ (44.5 yd³)
   Super dozer: 45.0 m³ (58.9 yd³)

## Walk-around

### **Ecology & economy features**

- Komatsu's new U.S. EPA tier 4 final emission regulation-compliant engine NEW
- Auto idle stop function **NEW**

#### **Performance features**

- High horsepower reverse increases productivity **NEW**
- Automatic transmission with lockup torque converter **NEW**
- Selectable working modes
- Automatic/manual gearshift selectable modes NEW

### **Operator comfort**

- Ride comfort enhancements
  - Equalizer bar shoulder pads **NEW**
  - Increased minor bogie oscillation NEW
  - Larger cab damper mounts **NEW**
  - Heated/ventilated operator's seat with improved suspension & cushioning **NEW**
- Excellent visibility to the blade and ripper NEW
- All new, ergonomic steering and work equipment levers NEW
- Rear view monitor system **NEW**
- Electronic height adjuster for steering console NEW

#### **Safety features**

- Rear platform & guard rails UPGRADE
- Heavy duty steps and large hand rails UPGRADE
- Secondary engine shutdown switch **NEW**
- Operator presence system **NEW**
- Seat belt caution indicator NEW
- Power ladder (optional) NEW
- Battery and starter isolator
- Emergency engine stop switches (optional)
- Anchor points for service lanyards

### Reliability & maintenance

- · Robust main frame and track frames NEW
- Modular long life powertrain design
- T-MEX radiator\* NEW
- · Swing-out cooling fan NEW
- · Centralized greasing points for work equipment

## Information & communication technology (ICT)

- Machine monitor with high resolution 7-inch color liquid crystal display (LCD) NEW
- Energy saving operation NEW



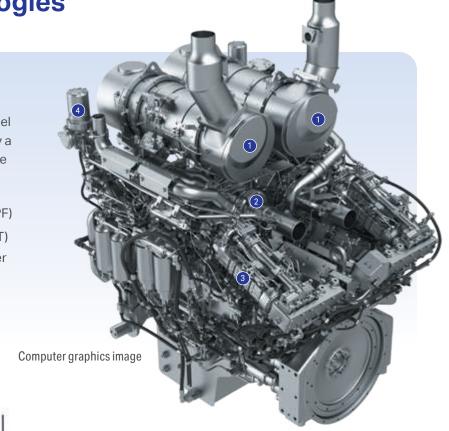
<sup>\*</sup>T-MEX is a trademark of TRAD

## New engine technologies

## New emission regulation-compliant engine

For power plus reduced emissions and fuel consumption, the D475A-8 is powered by a new U.S. EPA Tier 4 Final compliant engine with latest technologies.

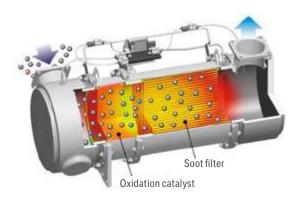
- 1. Komatsu diesel particulate filter (KDPF)
- 2. Variable geometry turbocharger (VGT)
- 3. Exhaust gas recirculation (EGR) cooler
- 4. Komatsu closed crankcase ventilation (KCCV)





### **Heavy-duty aftertreatment system**

KDPF captures more than 90% of particulate matter (PM). Special oxidation catalyst and extra fuel injection in the exhaust stream can decompose accumulated soot in the KDPF filter by either active or passive regeneration. This system does not require any additional operator action or interrupt normal operation.



## Variable geometry turbocharger (VGT) system

The VGT system features Komatsudesigned hydraulic technology modulating airflow to match performance with load



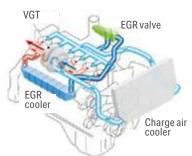
conditions. This upgraded version better manages exhaust temperature.

## Heavy-duty cooled exhaust gas recirculation (EGR) system

Recirculating a portion of exhaust gas into the air intake lowers combustion temperatures to reduce

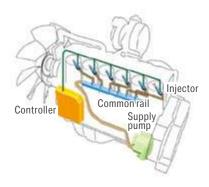
NOx emissions.

A high-efficiency and compact cooling system helps reduce NOx emissions and fuel consumption.



## High pressure common rail (HPCR) fuel injection system

Computer controlled, high-pressure fuel injection delivers efficient combustion cycles to reduce Particulate Matter emissions.

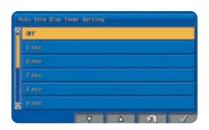


## Hydraulic drive radiator cooling fan

For excellent performance, efficiency and reduced noise to the operator, the new system only runs the fan when needed and varies the speed based on engine coolant, powertrain oil and hydraulic oil temperatures.

#### Komatsu auto idle stop

Automatically shuts down the engine after a period of idling to reduce fuel consumption and exhaust emissions. When enabled, you can program the time before shutdown from five to 60 minutes.



## **Performance features**

#### 15% More power in reverse

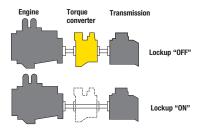
Engine output is increased by more than 15% when in reverse, providing faster travel speed. This leads to reduced cycle times and higher levels of production.

Production increased by 10%

1. In downhill dozing (13 deg.) 2. Compared with D475A-5E0

## Automatic transmission with lockup torque converter

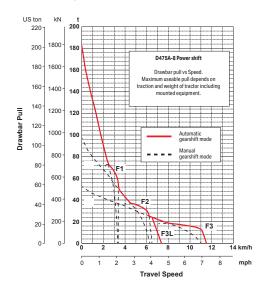
A sharp reduction in fuel consumption and greater power train efficiency is achieved by the automatic gearshift transmission and



lock up torque converter. The automatic gearshift transmission selects the optimal gear range depending on the working conditions and load placed on the machine. This means the machine is always operating at maximum efficiency. (Manual gearshift mode is selectable with a switch)

## Fuel consumption reduced by 10%

Compared with manual gearshift mode



## Electronic smooth steering clutch/brake control

Sensors monitor machine operating conditions such as incline and blade load. The travel controller precisely modulates clutch and brake engagement providing smooth steering control.

### Selectable working modes

This mode can be set to either "P mode" for the maximum power or "E mode" for energy saving operation. Combined with the automatic gearshift mode or manual gearshift mode, the working mode allows the operator to select the optimum machine operating condition for the work at hand. (The mode can be switched during operation.)

**P mode** (Power mode): With P mode, the engine outputs its full power. Select this mode for the work requiring large production, heavy-load work, and uphill work.

**E mode** (Economy mode): E mode is intended for reduced fuel consumption and can be utilized in poor ground conditions that promote shoe slip, requiring frequent use of the decelerator pedal. This mode is also appropriate for applications such as grading and light dozing.

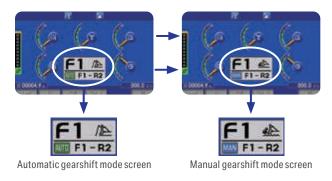


## Automatic/manual gearshift selectable modes

Automatic or manual gearshift modes can be selected with ease to suit the work at hand by simply pressing the switch on the multi-monitor (Selection at neutral).

Automatic gearshift mode: The mode for general dozing. When a load is applied, the gear automatically shifts down, and when the load is reduced, it automatically shifts up to a set maximum gear speed. This mode economizes both fuel and production where the torque converter lockup mechanism is actuated according to load, automatically selecting the optimum gear speed.

Manual gearshift mode: The mode for dozing and ripping rough ground. When loaded, the gear automatically shifts down, but does not shift up when the load is reduced. The operator can specify whether the auto shift down function is enabled or disabled.



## High penetration force by giant variable ripper

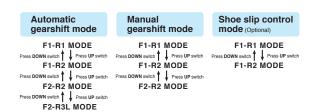
The giant variable ripper is a single shank ripper ideal for ripping tough material. The ripping angle is variable, and the deep reach shank allows the operator to adjust ripping



depth based on the application. The ripper shank height is adjustable from the operator's seat with a hydraulically controlled pin puller.

### Preset travel speed selection function

Preset travel speed enables the operator to select fore and aft travel speed amongst four preset patterns. In automatic gearshift mode, when the gearshift pattern is set to either <F1-R1>, <F1-R2>, <F2-R2>, or <F2-R3L>, the forward and reverse gear is automatically selected when the operator shuttles the transmission. This function reduces operator effort during repetitive passes.



#### **Auto downshift function**

When load is applied, the transmission automatically downshifts to the optimum gear speed to provide high fuel efficiency. This function provides comfortable dozing operation without manual downshifting.

#### Reverse slow mode

Reverse slow mode limits travel speed in reverse to improve ride quality over rough ground conditions while extending undercarriage life.

## Track shoe slip control mode (optional)

Optional track shoe slip control automatically controls engine speed in ripping operations, reducing operator fatigue.



This allows operators to focus on the ripper shank and machine travel without the distraction of limiting shoe slip with the decelerator pedal. Repair costs are lowered, undercarriage life is extended, and fuel consumption is reduced by minimizing shoe slip.

## **Working environment**



## New cab design and layout

The larger cabin design has improved visibility to the blade and ripper, increased leg room, and new ergonomic controls. The new cab offers improved comfort and is pressurized to reduce noise and dust intrusion.

Optimized lever and pedal layout



Enlarged foot space

New fixed operator seat position

## More visible ripper shank

You can realize more productive ripping, thanks to better visibility of the front edge of the ripper shank, made possible by the new arm structure.



#### **Rearview monitor**

Wide clear views to the rear of the machine are made possible by a camera and in-cab monitor.







## Electronic steering console height adjustment (optional)

An electric motor easily adjusts the steering console height.



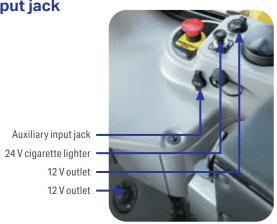
## **Automatic climate control system**

The operator just chooses their preferred temperature and the system does the rest, cooling or heating the cab.





Two 12 V power outlets and auxiliary input jack



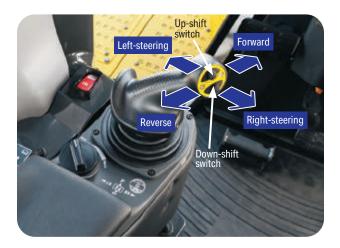
### **Multifunction audio**

Audio system sources include AM/FM radio, auxiliary, USB and Bluetooth.

## **Operator controls**

#### Palm command control system (PCCS)

Realize greater operator control and comfort with an ergonomic palm command travel joystick. Transmission gear shifting is simplified with push buttons.



## Finger command control system (FCCS) (optional)

Minimize operator efforts with a fixed-position travel control lever. Travel direction and transmission speed is selected with thumb-positioned controls while steering is controlled with fingertip paddles. The fixed-position lever provides operators additional support while operating on grade and over rough ground.



### **Electronic work equipment joystick**

An electronically controlled joystick for work equipment enables faster and more accurate blade and ripper control. For smooth finish grading, enable fine blade control mode.



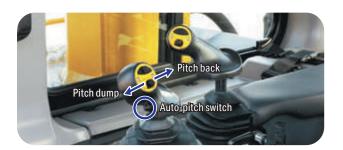
## Palm command ripper control joystick

The new joystick features single axis actuation for raising and lowering the ripper. The ripper joystick has a thumb toggle to easily adjust ripper shank angle.



### Blade auto-pitch

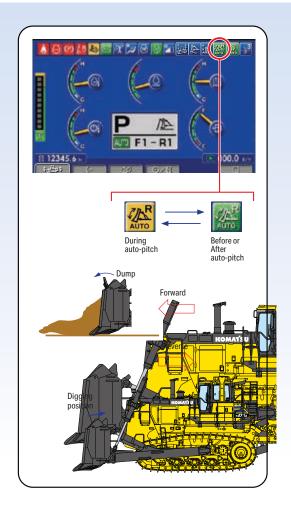
To reduce operator fatigue and increase operating efficiency, the new blade auto-pitch sets the blade pitch positions for digging and dumping. By pressing the auto-pitch button, the blade will adjust pitch position from dig to dump with no additional lever movements. The blade pitch control can be set to automatically return to the digging position when in reverse.

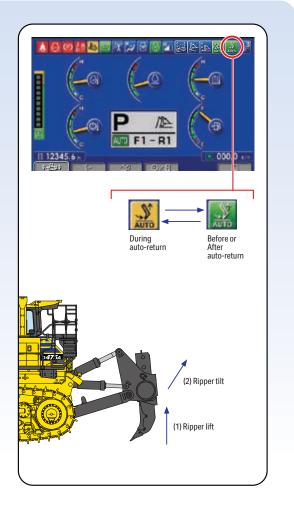


### Ripper auto-return

The ripper auto-return function automatically raises the ripper when traveling in reverse. This function eliminates repetition and reduces operator fatigue. The auto-return function can also be set to integrate pitch control, preparing the shank posture for the next pass.







## **Ride enhancements**

### **New operator seat**

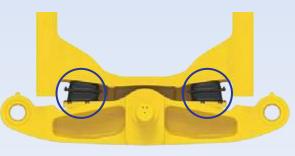
To keep your operators working at their best all day long, we designed the seat with numerous comfort

features. A new air suspension system dramatically reduces vibration. Shapes and foam densities manage pressure on the body; lumbar support and a host of easy adjustments can reduce fatigue. Heating and cooling elements manage temperature no matter the weather.

Heater and ventilator

#### **Equalizer bar shoulder pads**

Special attention was paid to the equalizer bar to reduce impacts on the operator from rough terrain — shoulder pads smooth the ride and a reduced oscillation angle controls roll.





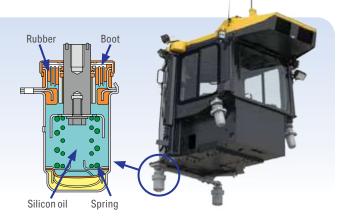
## **Bogie oscillation**

The oscillation angle of the minor bogie has been increased to improve travel over rough terrain.

#### New viscous cab isolators

The entire cab is suspended to further isolate the operator from impacts and machine movement.

A new long-stroke cab damper system provides excellent shock and vibration absorption capacity.



## Accessibility and safety

#### Walk around rear service platform

The platform provides operators and technicians access to key maintenance points including fuel and washer fluid fills, cab window glass, air conditioner condenser,



rear-view camera and cab lights.

### Heavy-duty steps with large handrails

To aid the operator in safely accessing the machine, strategically placed grab handles and non-slip steps are included.



## **Anchorage points**

Anchorage points are strategically located around the machine and available to tie-off service lanyards while performing maintenance.

## Operator presence sensing system

To prevent unintentional machine movement when the operator is not in the seat, the system locks out the powertrain and hydraulics if it senses the operator is not seated.

## Power ladder (optional)

The power ladder provides easy access for operators and service personnel.



## Secondary engine shutdown switches (cab)

Two secondary engine shutdown switches are equipped inside the cab to immediately stop the engine.





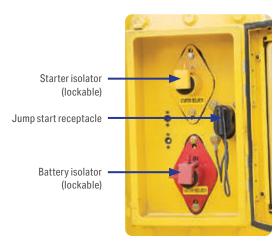
## Secondary engine shutdown switch (ground level)

An additional secondary shutdown switch is located at ground level on the right rear of the machine.





## **Battery and starter isolator box**



## Reliability and maintenance features

## **Mainframe strength**

Structural enhancements significantly increase service life. The D475A-8 is designed to be rebuilt for outstanding



#### Radiator

Radiator consists of individually replaceable tubes which contributes to easier maintenance and less downtime.

Fins spacing promotes less clogging and efficient heat exchange.



## New single blade linkage

This new structure reduces blade sway, as well as extending maintenance intervals of blade joint.



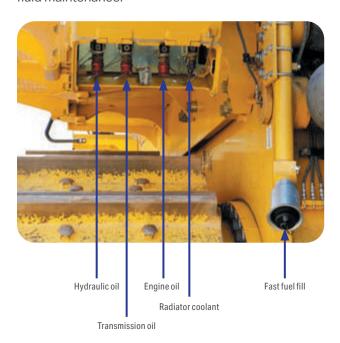
## Swing out fan

For easier cleaning of the radiator core, the fan swings and the mask folds.



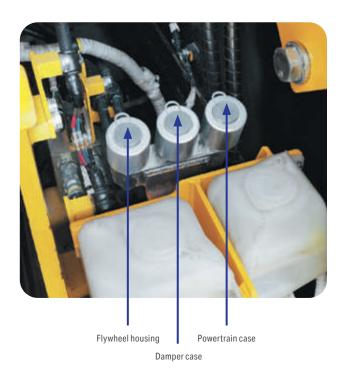
### Maintenance service center (optional)

To speed maintenance, the center, equipped with Wiggins quick couplings, enables refueling and quick oil and coolant changes. The ground level service center eliminates the need to get on/off the machine or remove/install panels to perform fluid maintenance.



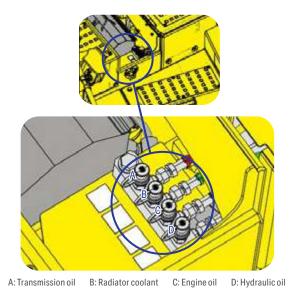
### **Canister-type breathers (optional)**

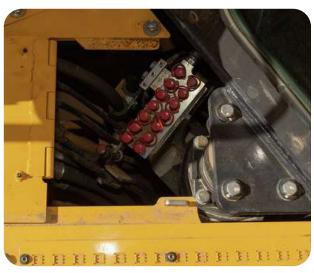
Checking and cleaning of the breathers can be accomplished remotely with canister-type breathers positioned inside the left exterior cover.



## Concentrated sampling and diagnostic ports

Remotely mounted banks of quick couplers facilitate live oil sampling and diagnostic tests for service. Quick couplers are easily accessible beneath panels to the right of the operator's cab.





Diagnostic ports

## **Machine monitor**



## Large multi-lingual high-resolution LCD monitor

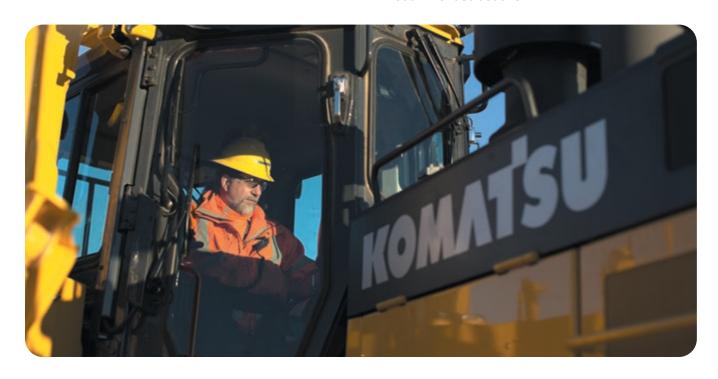
The operator stays in the know with information presented in an easy-to-understand design on a large LCD monitor, highly visible at most angles and lighting conditions. You can choose one of 27 languages to support operators around the world.

## Multi-monitor with troubleshooting function

To help minimize downtime, various meters, gauges and warning functions are centrally arranged on the multi-monitor. It also



simplifies start-up inspections and communicates replacement intervals for oil and filters. Lamps and buzzers promptly warn the operator if any abnormalities should occur; warnings are indicated in four levels to advise the operator of proper recommended actions.



## **Energy-saving operation**

## **ECO** guidance

Operator screens offer guidance for more fuel efficient operation:

- 1. Avoid excessive engine idling
- 2. Use economy mode to save fuel
- 3. Avoid hydraulic relief pressure
- 4. Avoid overload
- 5. Use automatic shift mode



Fuel consumption display

## **ECO** gauge

To coach the operator to perform in an environmentally friendly way and minimize energy consumption, an ECO gauge is displayed on the left of the multi-monitor screen.

### **Fuel consumption display**

Average fuel consumption is displayed on the multi-monitor screen and updated every 10 seconds.

### Operation and ECO guidance record

The ECO guidance menu displays the operation record, fuel consumption history and ECO guidance record, which can be used to coach operators on reducing overall fuel consumption.





Operation record

Fuel consumption record



ECO guidance record



## D475A-8

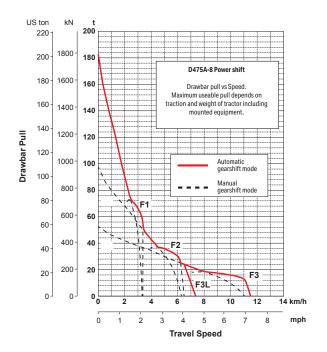
#### **Engine**

Model	Komatsu SAA12V140E-7
Туре	4-cycle, water-cooled, direct injection
Aspiration	Turbocharged, air-to-air charge air cooler, cooled EGR
Number of cylinders	12
Bore x stroke	140 mm x 165 mm (5.51 in x 6.50 in)
Piston displacement	30.48 L (1,860 in <sup>3</sup> )
Governor	Mid-range, electronic
Horsepower	
SAE J1995	Gross: Forward 697 kW 934 HP Reverse 777 kW 1040 HP
ISO 9249/SAE J1349*	Net: Forward 664 kW 890 HP Reverse 722 kW 968 HP
Rated rpm	2,000 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 641/722 kW 860/968 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 forcelubricated for optimum heat dissipation. Gearshift lock lever and neutral safety switch prevent accidental starts.

Gear	Forward	Reverse
1st	3.4 km/h (2.1 mph)	4.4 km/h (2.7 mph)
2nd	6.3 km/h (3.9 mph)	8.4 km/h (5.2 mph)
3rd L	7.4 km/h (4.6 mph)	9.0 km/h (5.6 mph)
3rd	11.6 km/h (7.2 mph)	14.3 km/h (8.9 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 multipledisc, 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	4.6 m (15 ft. 1 in)
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#### 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

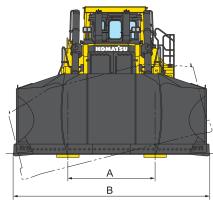
Lubricated tracks. Unique seals prevent entry of foreign abrasives into pin to bushing clearances to provide extended service life. Track tension is easily adjusted with grease gun.

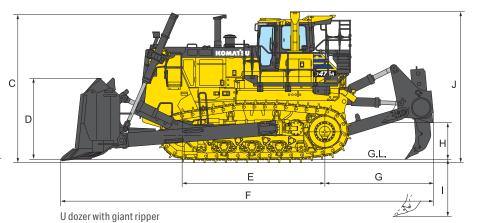
Number of shoes (ea	ich side)		41		
Grouser height (sing	le grouser)		105 mm (4.1")		
Shoe width (standar	d)		710 mm (28")		
Ground contact area	n*		64 240 cm <sup>2</sup> (9,957 in <sup>2</sup> )		
Ground pressure (tractor)** 115.2 kPa 1.18 kg/cm² (16.71			.18 kg/cm² (16.71 psi)		
Number of track rollers					
Number of carrier ro	llers		2		
Extreme service shoes	Additional weight	Ground contact area*	Ground pressure**		
810 mm (32 in)	920 kg (2,028 lbs.)	73 290 cm <sup>2</sup> (11,360 in <sup>2</sup> )	118 kPa 1.20 kg/cm <sup>2</sup> (17.1 psi)		
910 mm (36 in)	1 830 kg (4,034 lbs.)	82 340 cm <sup>2</sup> (12,763 in <sup>2</sup> )	106.1 kPa 1.08 kg/ cm² (15.4 psi)		

<sup>\*</sup>Ground contact area calculated by track on ground, center idler to center sprocket \*\*Ground pressure calculated using ISO 16754

#### Coolant and lubricant capacity (refill)

Fuel tank	1 920 L (507.2 US gal)
Coolant	265 L (70 US gal)
Engine	120 L (31.7 US gal)
Torque converter, transmission, bevel gear, and steering system	210 L (55.5 US gal)
Final drive (each side)	75 L (19.8 US gal)





Ground clearance 615 mm (2 ft.)

**Dimensions** 

A	2 770 mm (9 ft. 1 in)
В	6 205 mm (20 ft. 4 in)
С	4 710 mm (15 ft. 5 in)
D	2 610 mm (8 ft. 7 in)
Е	4 525 mm (14 ft. 10 in)
F	11 800 mm (38 ft. 9 in)
G	3 430 mm (11 ft. 3 in)
H*1	1 210 mm (4 ft.)
<b> </b> *2	1 845 mm (6 ft. 1 in)
J	4 795 mm (15 ft. 9 in)

<sup>\*1</sup> Maximum lift above ground

#### **Operating weight**

88 200 kg (194,450 lbs.)
ant, coolant, full fuel tank, operator, and rear attachments.
115 300 kg (254,195 lbs.)
ariable ripper, cab, ROPS (ISO 3471), ted lubricant volumes, coolant, full fuel es.
1.36 kPa 133.4 kgf/cm² (19.35 psi)

Hydraulic system	
Hydraulic control unit	
	nsing system (CLSS) designed for precise and d for efficient simultaneous operation.
Variable piston pump v	s externally mounted beside the hydraulic tank. with capacity (discharge flow) of 541 L/min implement at rated engine rpm.
Relief valve setting	for implement 27.5 MPa 280 kgf/cm2 (3,983 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 valv	ve required for variable digging angle multi-shank

ripper and giant ripper.	required for variable di	gging angle multi-shank			
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	180 mm (7.1")			
Blade tilt (single tilt)	1	250 mm (9.8")			
Blade tilt (dual tilt)	2	250 mm (9.8")			
Ripper lift	2	225 mm (8.9")			
Ripper tilt	2	225 mm (8.9")			
Hydraulic oil capacity (refil	1)				
Semi-U dozer or U dozer		190 L (50.2 US gal)			
Ripper equipment (additional volume)					
Giant ripper		130 L (34.3 US gal)			
Multi-shank ripper (varia	ible)	130 L (34.3 US gal)			

#### **Dozer equipment**

Blade capacitie	es are based on t	the ISO recom	mended practice 9246.							
	Overall	Blade	Blade	Maximum	Maximum	Maximum	Weigl	nt	Ground pressure**	
	length with	capacity*	length x height	lift above	drop below	tilt	Dozer	Hydraulic	(ISO16754)	
	dozer	(ISO 9246)	with spill guard	ground	ground	adjustment	equipment	oil	(130 107 34)	
Dual tilt	8 900 mm	27.2 m <sup>3</sup>	5 265 mm x 2 690 mm	1 650 mm	900 mm	1 145 mm	18 300 kg	109 kg	131.6 kPa 1.34 kgf/cm <sup>2</sup>	
semi-U dozer	(29 ft. 2 in)	(35.6 yd <sup>3</sup> )	(17 ft. 3 in x 8 ft. 10 in)	(5 ft. 5 in)	(2 ft. 11 in)	(3 ft. 9 in)	(40,345 lbs.)	(240 lbs.)	(19.1 psi)	
Dual tilt	9 400 mm	$34.4  \text{m}^3$	6 205 mm x 2 610 mm	1 650 mm	900 mm	1 350 mm	19 900 kg	109 kg	133.4 kPa 1.36 kgf/cm <sup>2</sup>	
U dozer	(30 ft. 10 in)	(44.5 yd <sup>3</sup> )	(20 ft. 4 in x 8 ft. 7 in)	(5 ft. 5 in)	(2 ft. 11 in)	(4 ft. 5 in)	(43,872 lbs.)	(240 lbs.)	(19.4 psi)	
Dual tilt	9 175 mm	45.0 m <sup>3</sup>	6 465 mm x 2 874 mm	1 700 mm	1 000 mm	850 mm	22 100 kg	132 kg	136.0 kPa 1.39 kgf/cm <sup>2</sup>	
super dozer	(30 ft. 1 in)	(58.9 yd <sup>3</sup> )	(21 ft. 3 in x 9 ft. 5 in)	(5 ft. 7 in)	(3 ft. 3 in)	(2 ft. 9 in)	(48,722 lbs.)	(291 lbs.)	(19.7 psi)	

<sup>\*2</sup> Maximum drop below ground

<sup>\*</sup>Blade capacities are based on the ISO recommended practice 9246.
\*\*Ground pressure shows tractor with cab, ROPS (ISO 3471), giant variable ripper, 32 in extreme service shoes, standard equipment and applicable blade.
Ground pressure calculated using ISO 16754

Operator environment and equipment	
Air conditioner and heater with automatic climate control and defroster	•
Back-up alarm	•
Decelerator pedal	•
Double wiper for cab door	•
Finger Command Control (FCCS) steering system	0
Horn, warning	•
LED lighting package	
Access lamps (4)	
Additional cab mount (4)	
Front fender mount (2)	
High mount on hood (2)	
Rear fender mount (2)	
Ripper point light	
Lunch box holder	•
Mirror, rearview	•
Palm Command Control Steering (PCCS) system	•
Power ladder	0
Provisions for power ladder installation	•
Radio, AM/FM, auxiliary, bluetooth	•
Rearview monitoring system	•
ROPS (meets ISO 3471 standards)	•
Weight: 1,634 lbs. (741 kg)	
Width: 6'11" (2,098 mm)	
Height: 6'3" (1,910 mm) (compartment floor to ceiling)	
Seat	•
Air suspension, fabric, low back rest, head rest, heated and ventilated	
Seat belt, 3" retractable	•
Uninterrupted power source for 3rd party system	•
Powertrain	
Auto/manual gearshift (3F/3R) TORQFLOW transmission	•
Torque converter with lock-up clutch	
Alternator, 140 Amps, 24 V	•
Batteries, large capacity, 4 x 12 V, 160 Ah	•
Circuit breaker panel w/ push button resets	•
Dry-type air cleaner with dust evacuator and dust indicator	•
Electrical engine oil and coolant heaters	•
Engine intake precleaner	•
Engine preliation system	•
Final drive scraper, wear guard	•
Hydraulically driven radiator fan, swing out, reversible	•
Perforated side covers	•
Radiator, fin and tube type, copper core	•
Starting motors, 15 kW. (2 x 7.5 kW.), 24 V	•
Steering, wet clutch and brake	•
Undercarriage	
Extreme service shoes with cold link assemblies	
28" (710 mm) shoe width	•
32" (810 mm) shoe width	•
36" (910 mm) shoe width	0
Hydraulic track adjusters	•
Idler spring tensioner, additional preload	•
Labyrinth-type track rollers	•
Segmented sprocket segments	•
Track roller guards	•

#### **Dozer equipment**

Blade Semi-U, strengthened dual-tilt, 35.6 yd3 (27.2 m3) Blade Full-U, strengthened dual-tilt, 45.0 yd3 (34.4 m3)

Blade Super dozer, dual-tilt, 58.9 yd³ (45.0 m³)	0
Hydraulics and cab controls for dual-tilt dozer equipment	•
Straight fame assembly, dual-tilt, less blade	0
Rear attachment	
Counterweight with hitch-13,395 lbs. (6,076 kg)	0
Counterweight, additional with hitch-14,509 lbs. (6,581 kg)	0
Hydraulics and cab controls for giant variable ripper	•
Ripper assembly, giant variable, long protector	0
Variable, single shank ripper ideal for tough ripping applications. Ripping angle is variable. Ripping depth is adjustable with a hydraulically controlled pin-puller	
Weight: 15,895 lbs. (7,210 kg)	
Beam length: 4'11" (1,500 mm)	
Maximum lift above ground: 4'0" (1,210 mm)	
Maximum digging depth: 6'1" (1,845 mm)	
Ripper Assembly, multi-shank	0
Three shank assembly with hydraulically controlled lift and tilt functionality	
Weight: 21,430 lbs. (9,720 kg)	

#### Service and maintenance

Beam length: 10'1" (3,085 mm)

Maximum lift above ground: 4'0" (1,210 mm) Maximum digging depth: 4'1" (1,240 mm)

Anchor points for service lanyards	•
Canister-type, remote breathers	•
Centralized greasing (blade cylinder yoke and ripper)	•
Concentrated live oil sampling ports	•
Engine emergency stop system	•
Engine room light	•
Electrical dust indicator	•
Electrical engine oil level sensor	•
Electrical hydraulic oil level sensor	•
Fast fill fuel system	•
Hinged underguards with front pull hook	•
Isolators, battery and starter	•
Jump start receptacle	•
Service fill and evacuation center, ground-level	•
Hyd. oil, eng. oil, T/M oil, and coolant	
Platform with handrails and toe boards	•
PM service connectors	•
Radiator site gauge	•
Vandalism protection kit (cover locks)	•
Technology	·

rechnology	
Auto-idle stop system	•
Auto-pitch blade control	•
Auto-ripper return	•
Komtrax Plus with iridium + WIFI	•
Track shoe slip control	

#### Special arrangements

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Cold area arrangement -30 - +40 C	•
High altitude arrangement	•
Mining specification	•
MSHA regulation arrangement (dust)	•
OSHA (USA) regulation arrangement	•
Sandy and dusty area arrangement	•

Further equipment on request

- standard equipment
- optional equipment

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