

# D155A-2

## CRAWLER DOZER



Model shown may include optional equipment.

### **KOMATSU: The Quality is Standard.**

**FLYWHEEL HORSEPOWER: 320 HP @ 2000 RPM. OPERATING WEIGHT: 43110 kg (95,040 lb)**

#### **Outstanding Productivity and Efficiency**

- High output diesel engine delivers maximum productivity and fuel economy
- Low center of gravity for extra stability and traction
- Large capacity blade
- Dynamic ripping capabilities

#### **Operator Comfort**

- Excellent visibility
- Human-engineered operator's compartment for increased comfort
- Responsive hydraulics for more efficiency and greater comfort

#### **Minimum Downtime**

- Advanced monitoring system helps prevent minor problems from becoming major ones
- Tilt back ROPS cab for easy component access
- Bolt-on sprocket teeth for easy, in the field replacement

# New D155A-2 Bulldozer – Designed for Maximum Production and Economy

## Outstanding Productivity

### Low center of gravity and high stability provide superior traction

A long length of track on ground 10'4" and a wide track gauge 7', coupled with a low profile design assure excellent stability and a better transfer of power to the ground for superior traction.

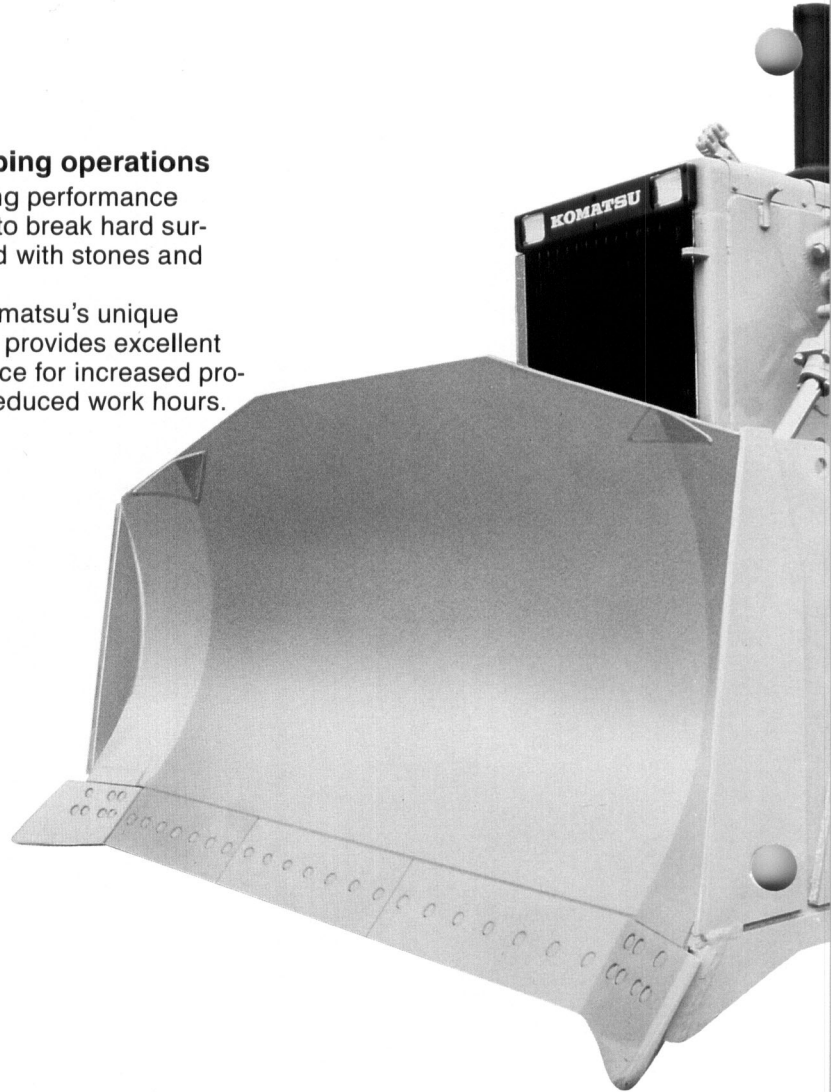
### Superior blade performance and life

Increased production levels are easily attained with the large capacity, 15.6 yd<sup>3</sup> U-blade. Blade durability is also increased due to the high tensile strength steel on the front and sides.

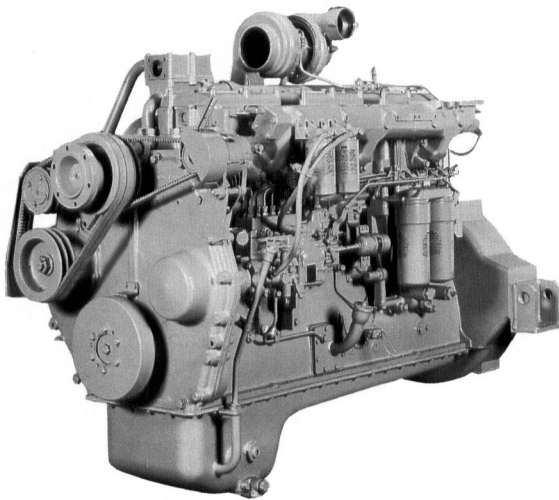
### Dynamic ripping operations

Powerful ripping performance makes it easy to break hard surfaces saturated with stones and rocks.

In addition, Komatsu's unique linkage design provides excellent penetration force for increased productivity and reduced work hours.



## High Powered Fuel Efficient Engine



### High output Komatsu engine means added productivity

The Komatsu S6D155 engine turns out 320 HP and a full 1,040 ft-lb of torque for high powered dozing and ripping. The Komatsu reputation for designing quality engines assures you long life and reliable operation.

### Excellent fuel economy

An advanced, fuel efficient design makes the S6D155 one of the most economical engines on the market. It allows the D155A-2 to get more done while burning less fuel, and that's the bottom line.

## Operator Comfort



### Comfortable and efficient operator's compartment

Conveniently located controls and sensitive hydraulics combine to make the operator more productive and comfortable. The adjustable suspension seat can be offset 15° to the right for a better view of the ripper.

The machine's low center of gravity not only increases productivity, but also provides a more comfortable and stable ride.

The cab design and large glass area provide a wide viewing area. In addition, the rubber-cushioned floor frame mount, and built-in sound-absorbing urethane foam, result in minimal noise and vibration reaching the operator.



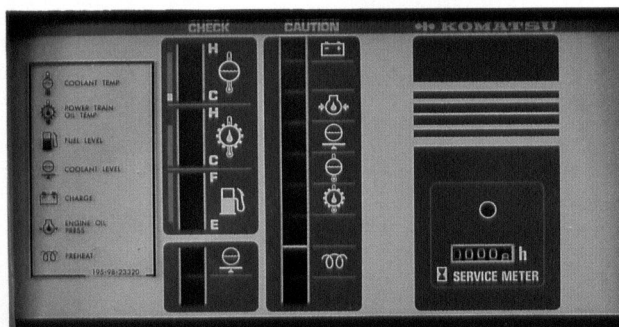
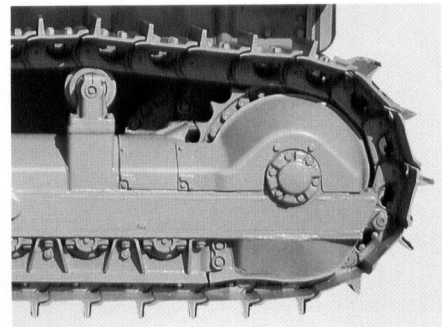
## Reduced Downtime

### Advanced monitoring system detects problems in their early stages

Minor problems don't develop into serious breakdowns since all vital operating conditions are constantly monitored and clearly displayed. All check before starting items are also displayed on the panel for easy re-start checks. This way, the operator can concentrate on his work and let the monitoring panel keep track of the machines's condition.

### Bolt on sprockets

Sprocket teeth are divided into easy to handle, bolt on segments for quick, in field replacement.



### Enclosed tilt hoses

The blade tilt hoses are housed within the push arm to protect them from damage.

### Grouped maintenance stations reduce service times

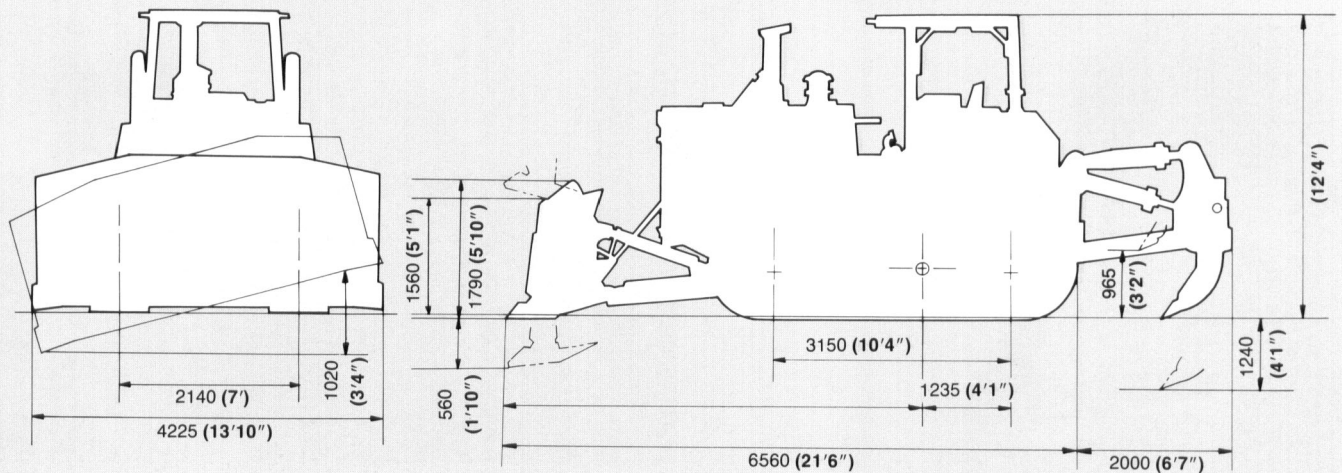
Access doors provide easy entry to all maintenance points. Filters and grease points are grouped together for fast easy servicing.





## DIMENSIONS (U-dozer)

Unit: mm (ft.in)



Ground clearance . . . . . 500 mm (1'8")



## HYDRAULIC SYSTEM

### Hydraulic control unit:

All spool-type control valves housed in hydraulic tank. Gear-type hydraulic pump with a capacity (discharge flow) of 355 ltr. (94 U.S. gal)/min.

Relief valve setting . . . . . 140 kg/cm<sup>2</sup> (2,000 psi)

- One control valve for angledozer  
Position: Blade lift . . . . . Raise, hold, float and lower
- Two control valves for Semi-U dozer, U-dozer and mechanical-angle-power-tiltdozer  
Positions: Blade lift . . . . . Raise, hold, float and lower  
Blade tilt . . . . . Left, hold and right
- Additional control valve required for ripper  
Positions: Ripper lift . . . . . Raise, hold and lower  
Ripper tilt (digging angle) . . . . . Increase, hold and decrease

### Hydraulic cylinders: Double-acting, piston type

Cylinder	Number of cylinders	Bore
Blade lift	2	140 mm (5.51")
Blade tilt	1	225 mm (8.86")
(Additional cylinders for mechanical-angle-power-tiltdozer)	2	160 mm (6.30")
Ripper lift	2	225 mm (8.86")
Ripper tilt	2	225 mm (8.86")

### Hydraulic capacity:

Semi-U dozer and U-dozer . . . . . 164 ltr. (43.3 U.S. gal)  
Angledozer . . . . . 153 ltr. (40.4 U.S. gal)  
Mechanical-angle-power-tiltdozer . . . . . 170 ltr. (44.9 U.S. gal)



## DOZER EQUIPMENT

Use of high-tensile-strength steel in moldboard for strengthened blade construction. Hydraulic piping for blade tilting are housed inside the dozer frame and protected from damage.

	Overall length with dozer	*Blade capacity	Blade length x height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Additional weight		Additional ground pressure
							Dozer equipment	Hydraulic control unit	
Semi-U dozer	6560 mm 21'6"	9.4 m <sup>3</sup> 12.3 yd <sup>3</sup>	4130 mm x 1790 mm 13'7" x 5'10"	1560 mm 5'1"	560 mm 1'10"	1000 mm 3'3"	5930 kg 13,070 lb	760 kg 1,680 lb	0.189 kg/cm <sup>2</sup> 2.69 psi
Angledozer	6620 mm 21'9"	6.3 m <sup>3</sup> 8.2 yd <sup>3</sup>	4850 mm x 1140 mm 15'11" x 3'9"	1520 mm 5'	630 mm 2'1"	400 mm 1'4"	5770 kg 12,720 lb	750 kg 1,650 lb	0.185 kg/cm <sup>2</sup> 2.63 psi
U-dozer	6975 mm 22'11"	11.9 m <sup>3</sup> 15.6 yd <sup>3</sup>	4225 mm x 1790 mm 13'10" x 5'10"	1560 mm 5'1"	560 mm 1'10"	1020 mm 3'4"	—	—	0.210 kg/cm <sup>2</sup> 2.98 psi
Mechanical-angle-power-tiltdozer	6685 mm 21'11"	7.2 m <sup>3</sup> 9.4 yd <sup>3</sup>	5185 mm x 1175 mm 17' x 3'10"	1540 mm 5'1"	640 mm 2'1"	510 mm 1'8"	6260 kg 13,800 lb	760 kg 1,680 lb	0.199 kg/cm <sup>2</sup> 2.83 psi

\*Blade capacities are based on the SAE recommendation practice J1265.

# SPECIFICATIONS



## ENGINE

Komatsu S6D155-4 4-cycle, water-cooled, turbocharged diesel engine with 6 cylinders of 155 mm (6.10") bore x 170 mm (6.69") stroke and a 19.26 ltr. (1,175 in<sup>3</sup>) piston displacement. Flywheel horsepower:

**320 HP at 2000 RPM**

**Max. torque 1,040 lb-ft at 1400 RPM**

Direct-injection for fuel economy. Mechanical all-speed governor. Gear pump-driven force-lubrication with full-flow and bypass filters (double filtering system). Corrosion resistor purifies engine coolant and extends engine service life. No fuel injection adjustment required up to altitudes of 3000 m (9,840 ft) to keep up with rated engine output power. Dry, horizontal-type air cleaner with pre-cleaner for longer element service. Electrical 24-volt/11 kW starting system with 50A alternator, 2 x 12V/170 Ah batteries.

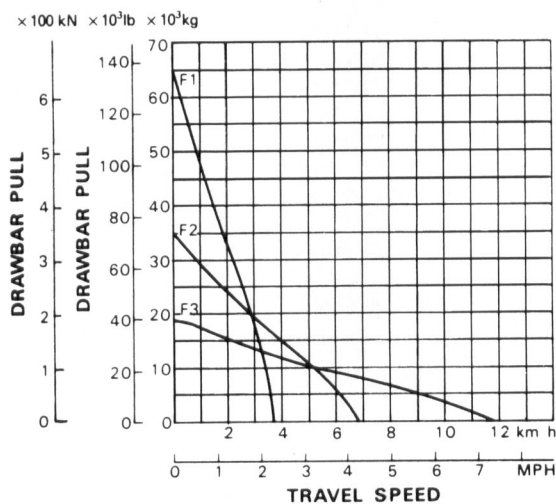


## TORQFLOW TRANSMISSION

Komatsu's unique TORQFLOW transmission consists of a water-cooled, 3-element, single-stage, single-phase torque converter and a planetary-gear, multiple-disc clutch transmission, which is hydraulically actuated and force-lubricated for optimum heat dissipation. It offers single-lever control of speed (3 forward and 3 reverse) and directional changes. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

Travel speeds: km/h (MPH)

	Forward	Reverse
1st	0— 3.7 (2.3 MPH)	0— 4.5 (2.8 MPH)
2nd	0— 6.8 (4.2 MPH)	0— 8.2 (5.1 MPH)
3rd	0— 11.8 (7.3 MPH)	0— 13.7 (8.5 MPH)



Usable pull will depend upon traction and weight of equipped tractor.



## STEERING

Lever controlled, wet, multiple-disc steering clutches are hydraulically actuated. Wet, contracting-band, foot-operated steering brakes with hydraulic booster for light-touch actuation and long service life. Steering clutches and brakes are hydraulically interconnected, allowing light-touch steering control. Min. turning radius . . . . . 3.8 m (12'6")



## FINAL DRIVE

Spur-gear, double-reduction final drives feature a large reduction ratio and minimize shocks to powertrain components. Segmented sprocket rims are bolt-on type for easy in-the-field replacement.



## UNDERCARRIAGE

**Suspension** . . . . . Oscillation-type equalizer bar  
**Track roller frame** . . . . . Box-section high-tensile-strength steel construction  
**Rollers and idlers** . . . . . Lubricated track/carrier rollers and idlers are sealed with floating seals.  
 Number of track rollers (each side) . . . . . 7  
 Number of carrier rollers (each side) . . . . . 2  
**Track shoes** . . . . . Reinforced single-grouser shoes. Unique dust seals for preventing entry of dust into pin-to-bushing clearances for extended service. Track tension easily adjusted with grease gun.  
 Number of shoes (each side) . . . . . 41  
 Grouser height . . . . . 80 mm (3.1")  
 Shoe width (standard) . . . . . 660 mm (26")  
 Ground contact area . . . . . 41580 cm<sup>2</sup> (6,440 in<sup>2</sup>)  
 Ground pressure (tractor) . . . . . 1.0 kg/cm<sup>2</sup> (14.7 psi)



## COOLANT & LUBRICANT CAPACITY (refilling)

Coolant . . . . . 165 ltr. ( 43.6 U.S. gal)  
 Fuel tank . . . . . 600 ltr. (159.0 U.S. gal)  
 Engine . . . . . 57 ltr. ( 15.1 U.S. gal)  
 Torque converter, transmission, bevel gear, and steering system . . . . . 136 ltr. ( 35.9 U.S. gal)  
 Final drive (each side) . . . . . 55 ltr. ( 14.5 U.S. gal)



## OPERATING WEIGHT (approximate)

Tractor weight, including rated capacity of lubricant, coolant, fuel tank, operator and standard equipment . . . . . 28810 kg (63,510 lb)  
 Operating weight, including U-dozer, multishank ripper, ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank . . . . . 43110 kg (95,040 lb)

## STANDARD EQUIPMENT

- TORQFLOW transmission
- 660 mm (26.0") extreme service shoes
- Hydraulic track adjusters
- 24 V, 50 A alternator
- 24 V, 11 kW electric starting motor
- Air cleaner inner element lock
- Wear-resistant pulley
- Blower fan
- Track roller guard (each side)
- Final drive case wear guard
- 4-piece underguards
- Decelerator pedal
- Segmented sprockets
- Dry, horizontal-type air cleaner with precleaner, auto dust evacuator and dust indicator
- 24 V (12 V x 2), 170 Ah batteries
- Lower guard (4 pieces)
- 7-roller track frame
- Sealed and lubricated track
- Lighting system (including 1 rear and 4 front lights)
- Front pull hook
- In-line radiator
- Radiator mask, hinged and perforated
- Oil-suspension seat with seat belt
- Electronic monitor/display system: Check lights for coolant level. Gauges for coolant temperature, fuel level, service meter, and power train oil temperature. Warning alarm and light for engine pressure, coolant level, power train oil temperature, coolant temperature
- Back-up alarm
- Muffler with rain cap
- ROPS brackets
- Equalizer bar

## OPTIONAL EQUIPMENT

- Pusher plate for angle blade
- Single shank ripper beam protector
- Deep digging shank (+ 20") for single shank assembly
- Large capacity batteries
- Rear power control unit
- Ripper control unit
- Rear counterweight with rigid drawbar
- Towing winch
- Fire extinguisher
- Pin puller control unit
- Fairlead
- Air conditioning
- Heater/defroster
- Coolant heater
- Reversible fan
- Rigid drawbar
- Swing drawbar
- Fan pulley (high speed)
- Short exhaust pipe muffler
- Radiator core protective grid
- Canvas radiator shutter
- Steel radiator shutter
- ROPS canopy
- Cab, steel sound suppressed includes: floor mat, front, rear, right and left door washer and wiper, ashtray, cigarette lighter, room light, and tinted glass.
- Logging guards and sweeps
- Water separator
- Track guiding guard
- Vandalism protection locks

## RIPPERS

	No. of shanks	Additional weight incl. hyd. control unit	Beam length	Max. lift above ground	Max. drop below ground
Variable multishank	3	4915 kg (10,840 lb)	2420 mm (7'11")	890 mm (2'11")	835 mm (2'9")
Variable giant	1	4330 kg (10,650 lb)	1156 mm (3'10")	965 mm (3'2")	1240 mm (4'1")

## TRACK SHOES

TYPE	Additional weight kg (lb)	Ground contact area cm <sup>2</sup> (in <sup>2</sup> )	Additional ground pressure kg/cm <sup>2</sup> (psi)
560 mm (22") single grouser	-939 (2,070)	35280 (5,470)	0.16 (2.3)
560 mm (22") extreme service	-480 (1,060)	35280 (5,470)	0.16 (2.4)
610 mm (24") single grouser	-728 (1,605)	38430 (5,960)	0.06 (0.9)
610 mm (24") extreme service	-240 (530)	38430 (5,960)	0.07 (1.1)
660 mm (26") single grouser	-540 (1,190)	41580 (6,440)	-0.01 (-0.2)
710 mm (28") single grouser	-118 (260)	44730 (6,930)	-0.07 (-1.1)

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Materials and specifications are subject to change without notice

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