FLYWHEEL HORSEPOWER
225 kW 302 HP @ 1900 rpm

OPERATING WEIGHT
38700 kg 85,320 lb

D155A-5

Photo may include optional equipment
D155A-5 avance® Crawler Dozer

**Walk-Around**

Easy to learn and easy to operate **left hand joystick** controls all tractor motion, while right hand joystick controls all blade functions for accurate grading and high productivity. See pages 4 and 5.

The entirely new Komatsu D155A-5 carries on the tradition of excellence established by the highly regarded D155A-3.

Blade tilt lines completely protected.

**Modular power train** for increased serviceability and durability. Forward mounted pivot shafts isolate final drives from blade loads. See page 8.

Komatsu Torqflow transmission offers **single lever control** of speed (3 forward and 3 reverse) and directional changes. See page 4.

Reduced maintenance with **hydraulic reservoir sight gauge** and spin-off filters housed in compartment. Gull wing engine side doors for easy and safer engine servicing. (See other reduced maintenance features on page 8.)

**Komatsu torque converter reduces shocks** for smooth operation. See page 9.

Reduced maintenance with **hydraulic reservoir sight gauge** and spin-off filters housed in compartment. Gull wing engine side doors for easy and safer engine servicing. (See other reduced maintenance features on page 8.)

Wet type multiple-disc steering clutches/brakes eliminate both clutch and brake adjustment for facilitating maintenance. See page 5.

Photos may include optional equipment.
Operator’s Compartment

All steering, direction, and speed changes can be made with a single joystick control. When the operator wants to move the machine forward and to the left, he simply moves the joystick forward and to the left. When he desires a gear change, he merely twists his wrist. The machine responds to the movement of the lever, providing the operator with feeling of natural control with Komatsu joystick.

Low-Noise Design
The engine, power train components, and control valves are rubber-mounted to the frame. A low-noise engine used and a radiator mask which diverts the engine noise. Engine side covers provide more than style by damping engine noise.

Easy-to-Operate Work Equipment

Control Lever
- A PPC valve is used with the right joystick blade control. This improves operator comfort because of reduced operating effort and stroke.
- With the Closed-Center Load Sensing (CLSS) hydraulic system, blade lever stroke is directly proportional with blade speed, regardless of the load and travel speed. This results in superb, fine controllability.

Hexagonal Pressurized Cab (Optional)
Air filters and a higher internal air pressure combine to prevent external dust from entering the cab. The cab’s hexagonal design provides excellent front, side, and rear visibility. The REU and the oil damper mount cab soften shock for operator comfort and extend components life.

Electronic Monitor Panel
An electronic monitoring system prevents minor problems from developing into major ones. All meters and gauges are controlled by a microcomputer, which provides a wide indication range for easier, more precise reading.

- Electrical Charge Lamp
- Engine Air Intake Pre-heat Lamp
- Engine Coolant Temperature Caution Lamp
- Engine Coolant Temperature Gauge
- Engine Oil Pressure Caution Lamp
- Fuel Gauge
- Service Meter
- Monitor Caution Cancel Switch
- Monitor Caution Lamp
- Transmission Oil Temperature Gauge

Wet type multiple-disc steering clutches/brakes

Wet type multiple-disc type steering clutches are controlled by left hand single-lever joystick. Steering clutches are spring loaded and hydraulically released, eliminating clutch adjustment for maintenance-free operation. Wet multiple-disc steering brakes are spring loaded and hydraulically released, and interconnected with steering clutches for steep turn. Steering brakes also function as service brakes with pedal operation.

Photo may include optional equipment
**Advanced Resilient Equalized Undercarriage (REU)**

The Komatsu X-type bogie resilient equalized undercarriage (REU) performs independent see-saw movements. Tremendous traction can be achieved even on uneven ground, because the shoe always follows the contour of the ground.

A rubber shock absorber is mounted on the X-type bogie and decreases vibration and shock. This X-bogie and rubber cushion 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.

**Conventional Undercarriage**

There is minimal shoe slippage with the conventional low drive type undercarriage. The shoe slip limit has been substantially raised due to long tracks and large ground contact area. The large traction force thus obtained, in combination with high engine power, results in superb drawbar pull. With the low center of gravity, dynamic stability is excellent.

**Comfortable Ride on Uneven Ground**

On uneven ground, the rubber pad provides four times the suspension effect. When riding over obstacles, the height of the machine fall is low.

**Frame**

**Flat Bottom Frame**

The pivot shafts and monocoque frames prevent mud build-up. The design facilitates good maneuverability in muddy conditions and reduces the chance of hanging up on stumps or boulders.
ENGINE AND TORQUE CONVERTER

Engine
Fuel Efficient Engine
The field-proven, rugged reliable Komatsu 225 kW 302 HP SA6D140E-2 provides high torque for efficient dozing power and high reliability and low fuel consumption.

Automatic Preheating Mechanism
The best preheating times is set automatically by sensing ambient temperature. This simplifies the preheating operation.

Modular Power Train Components
Modular design has facilitated removal/ installation of power train components, shortening machine downtime.

Wet, Multiple-Disc Brakes
Eliminate brake adjustments for maintenance-free operation.

Various Features for Easy Maintenance
● Radiator reserve tank
● Gull-wing engine side doors
● Centralized oil pressure test ports
● Centralized filter arrangement

TORQUEFLOW TRANSMISSION
Komatsu’s TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 1-phase torque converter and a planetary gear, multiple-clutch transmission which is hydraulically actuated and force-lubricated for optimum heat dissipation. Joystick control of gears (3 forward and 3 reverse) and directional steering changes. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

STEERING
Joystick controls for all directional movements. Simply tilt the joystick to the left to make a left turn. Tilt it to the right for a right turn. Pushing the lever forward results in the machine forwarding, while pulling it toward the operator reverses the machine. Gear shifting also possible with the single-steering lever.

WEIGHT OF TRACTOR INCLUDING MOUNTED EQUIPMENT

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating weight:</td>
<td>38,700 kg (85,320 lb)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>105.9 kPa (15.4 psi)</td>
</tr>
</tbody>
</table>

COOLANT AND LUBRICANT CAPACITY (REFILLING)

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant</td>
<td>99 ltr (26.2 U.S. gal)</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>500 ltr (132.1 U.S. gal)</td>
</tr>
<tr>
<td>Engine oil</td>
<td>37 ltr (9.8 U.S. gal)</td>
</tr>
<tr>
<td>Damper</td>
<td>1.5 ltr (0.4 U.S. gal)</td>
</tr>
<tr>
<td>Transmission, bevel gear and steering system</td>
<td>60 ltr (15.9 U.S. gal)</td>
</tr>
<tr>
<td>Final drive (each side)</td>
<td>58 ltr (15.3 U.S. gal)</td>
</tr>
</tbody>
</table>

OPERATING WEIGHT (APPROXIMATE)

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tractor weight:</td>
<td>38,700 kg (85,320 lb)</td>
</tr>
<tr>
<td>Above equipment plus optional side covers, air conditioner and 560 mm 22” extreme service shoes</td>
<td>28,600 kg (63,050 lb)</td>
</tr>
<tr>
<td>Operating weight: Including Semi-U tiltdozer, multi-shank ripper, steel cab, ROPS, operator, standard equipment, rated lubricant, coolant full fuel tank, optional engine side covers, air conditioner and 560 mm 22” extreme service shoes</td>
<td>38,700 kg (85,320 lb)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>105.9 kPa (15.4 psi)</td>
</tr>
</tbody>
</table>
### Dimensions (Semi-U Tilt Dozer)

<table>
<thead>
<tr>
<th>Letter</th>
<th>Dimension</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3955 mm</td>
<td>mm</td>
</tr>
<tr>
<td>B</td>
<td>2080 mm</td>
<td>mm</td>
</tr>
<tr>
<td>C</td>
<td>2260 mm</td>
<td>mm</td>
</tr>
<tr>
<td>D</td>
<td>2565 mm</td>
<td>mm</td>
</tr>
<tr>
<td>E</td>
<td>3500 mm</td>
<td>mm</td>
</tr>
<tr>
<td>F</td>
<td>925 mm</td>
<td>mm</td>
</tr>
<tr>
<td>G</td>
<td>670 mm</td>
<td>mm</td>
</tr>
<tr>
<td>H</td>
<td>2510 mm</td>
<td>mm</td>
</tr>
<tr>
<td>I</td>
<td>3121 mm</td>
<td>mm</td>
</tr>
<tr>
<td>J</td>
<td>8515 mm</td>
<td>mm</td>
</tr>
<tr>
<td>K</td>
<td>4015 mm</td>
<td>mm</td>
</tr>
</tbody>
</table>

Ground Clearance: 485 mm

### Hydraulic System

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.
  - Gear-type hydraulic pump with capacity (discharge flow) of 255 ltr 67.4 U.S. gal/min at rated engine rpm.

- **Relief valve setting:** 20.6 MPa 210 kg/cm² 2,990 psi

- **Control valves:**
  - Spool control valve for Semi-U tilt dozer and Full-U tilt dozer.

- **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.

- **Blade tilt:**
  - Raise, hold, and lower

- **Ripper tilt:**
  - Increase, hold, and decrease

### Dozer Equipment

Use of high-tensile strength steel in moldboard for strengthened blade construction. Blade tilt hose piping is mounted inside the dozer push arm to protect from damage.

<table>
<thead>
<tr>
<th>Blade Type</th>
<th>Overall Length</th>
<th>Blade Capacity</th>
<th>Blade Length x Height</th>
<th>Maximum Ditching Above Ground</th>
<th>Maximum Ditching Below Ground</th>
<th>Maximum Tilt Adjustment</th>
<th>Additional Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-U Tilt Dozer</td>
<td>6300 mm</td>
<td>20' 8&quot;</td>
<td>8.8 m</td>
<td>3955 mm x 1720 mm</td>
<td>1250 mm</td>
<td>3'</td>
<td>4000 kg</td>
</tr>
<tr>
<td>Full-U Tilt Dozer</td>
<td>6695 mm</td>
<td>21' 4&quot;</td>
<td>9.5 m</td>
<td>4265 mm x 1760 mm</td>
<td>1250 mm</td>
<td>3'</td>
<td>5600 kg</td>
</tr>
<tr>
<td>Angle Tilt Dozer</td>
<td>6662 mm</td>
<td>21' 4&quot;</td>
<td>9.4 m</td>
<td>4800 mm x 1205 mm</td>
<td>1295 mm</td>
<td>3'</td>
<td>5140 kg</td>
</tr>
</tbody>
</table>

*Blade capacity is based on the SAE recommended practice J1265

### Standard Equipment

- **Air cleaner, double element with dust indicator**
- **Alternator, 35 ampere**
- **Batteries, 2 x 12V/70 Ah**
- **Blower cooling fan**
- **Bogie roller guards**
- **Decelerator pedal**
- **Electronic instrument monitor panel**
- **Fenders**
- **Horn, warning**
- **Hydraulics for dozer**
- **Hydraulics for dozer**
- **Lighting system, (includes 2 front, 1 rear)**
- **Mono-layer steering control**
- **Muffler with rain cap**
- **Radiator reserve tank**
- **Rear cover**
- **ROPS mounting brackets**
- **Suspension seat**
- **Starting motor, 11 kW/24V**
- **Track roller guard, and sections**
- **Track shoe assembly**
  - Sealed and lubricated track
- **550 mm 22" single grousers shoe**
- **Undergears, oil pan and transmission**

### Optional Equipment

- **ROPS CANOPY**
  - Additional weight: 505 kg 1,110 lb
  - Roof dimensions:
    - Length: 1725 mm 5’9”
    - Width: 1757 mm 5’9”
  - Weight from operator compartment floor: 1757 mm 5’9”

- **STEEL CAB**
  - Additional weight: 285 kg 630 lb
  - All-weather, enclosed pressurized cab.
  - Roof dimensions:
    - Length: 1705 mm 5’7”
    - Width: 1720 mm 5’8”

- **VARIABLE MULTI-SHANK RIPPER**
  - Additional weight (including hydraulic control unit): 3770 kg 8,180 lb
  - Beam length: 2260 mm 7’5”
  - Hydraulically controlled parallelogram-type ripper with three shanks. Digging angle steplessly adjustable
  - Maximum digging depth: 870 mm 2’10”
  - Maximum tilt above ground: 925 mm 3’
  - Standard digging angle*: 49°

- **VARIABLE GIANT RIPPER**
  - Additional weight (including hydraulic control unit): 5710 kg 12,680 lb
  - Beam length: 2105 mm 6’10”
  - Hydraulically controlled parallelogram-type ripper with one shank. Digging angle steplessly adjustable
  - Maximum digging depth: 1220 mm 4’
  - Maximum tilt above ground: 925 mm 3’
  - Standard digging angle*: 49°

*Measured with ripper point on ground and shank is vertical

### Shoes

<table>
<thead>
<tr>
<th>Shoes (optional)</th>
<th>Additional Weight</th>
<th>Ground Contact Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>560 mm 22&quot; single grousers shoes</td>
<td>+210 kg</td>
<td>39160 cm² 6.070 m²</td>
</tr>
<tr>
<td>660 mm 26&quot; single grousers shoes</td>
<td>+400 kg</td>
<td>42270 cm² 7.986 m²</td>
</tr>
<tr>
<td>710 mm 28&quot; single grousers shoes</td>
<td>+620 kg</td>
<td>40400 cm² 6.756 m²</td>
</tr>
<tr>
<td>560 mm 22&quot; extreme service shoes</td>
<td>+440 kg</td>
<td>35950 cm² 5.572 m²</td>
</tr>
<tr>
<td>660 mm 26&quot; extreme service shoes</td>
<td>+700 kg</td>
<td>39160 cm² 6.070 m²</td>
</tr>
<tr>
<td>710 mm 28&quot; extreme service shoes</td>
<td>+940 kg</td>
<td>42270 cm² 7.986 m²</td>
</tr>
</tbody>
</table>

### Other

- **Air conditioner**
- **Backup alarm**
- **Cab heater and defroster**
- **Engine side cover**
- **Locks, filler caps and covers**
- **Hinged, strengthened radiator mask**
- **Reverse fan**
- **Rigid drawbar**
- **Seat belt**
- **Tool kit and ordinary spare parts**

- **CRAWLER DOZER**

D155A-5

11 kW
24 V
2/4
ISO 3471, SAE J1040 APR88, and ISO 3449 POPS standards.

- **Engine side cover**
- **Electronic instrument monitor panel**
- **Starting motor, 11 kW/24V**
- **Track roller guard, and sections**
- **Track shoe assembly**
  - Sealed and lubricated track
- **550 mm 22" single grousers shoe**
- **Undergears, oil pan and transmission**