D155A-6

HORSEPOWER
Gross: 268 kW 360 HP / 1900 min⁻¹
Net: 264 kW 354 HP / 1900 min⁻¹

OPERATING WEIGHT
41700 kg

BLADE CAPACITY (ISO 9246)
Semi-U DOZER: 9.4 m²

Photo may include optional equipment.
PRODUCTIVITY
- Komatsu Technology
- Fuel-efficient Electronic Controlled Engine
- Hydraulic Driven Engine Cooling Fan
- Automatic/Manual Gearshift Selectable Mode

COMFORT
- New Integrated ROPS (ISO 3471) Cab
- Comfortable Ride with Cab Damper Mounting
- Gearshift Pattern Preset Function
- Fuel Control Dial

ICT* & KOMTRAX
- Large Multi-lingual High Resolution Liquid Crystal Display (LCD) Monitor
- KOMTRAX

WORK EQUIPMENT
- Innovative SIGMADOZER
- Newly Designed Ripper

MAINTENANCE
- Easy Radiator Cleaning with Hydraulic Drive Fan
- Oil Pressure Checking Ports
- Gull-wing Engine Side Covers
- Measures Against Poor Quality Fuel
- Dust-proof Measures

HORSEPOWER
- Gross: 268 kW 360 HP / 1900 min⁻¹
- Net: 264 kW 354 HP / 1900 min⁻¹

OPERATING WEIGHT
- 41700 kg

BLADE CAPACITY (ISO 9246)
- Semi-U DOZER: 9.4 m²
Fuel-efficient Electronic Controlled Engine

The Komatsu SAA6D140E-5 engine delivers 264 kW (354 HP) at 1900 min⁻¹. The fuel-efficient, powerful Komatsu engine makes the D155A-6 superior in both ripping and dozing operations. The engine is U.S. EPA Tier 2 and EU Stage 2 emissions equivalent, and features direct fuel injection, turbocharger and air-to-air charged air cooler to maximize power. To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

Hydraulic Driven Engine Cooling Fan

Fan rotation is automatically controlled depending on coolant and hydraulic oil temperature, saving fuel consumption and providing great productivity with a quiet operating environment.

Komatsu Technology

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this “Komatsu Technology” and adding customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment-friendly bulldozers.
Automatic/Manual Gearshift Selectable Mode

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

Automatically gearshift mode
The mode for general dozing. When a load is applied, the gear automatically shifts down, and when the load is off, it automatically shifts up to a set maximum gear speed. This mode automatically selects 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 off.

Field-proven Low-drive, Rigid Type Undercarriage

Komatsu’s unique low-drive undercarriage features less shoe slippage compared with other types of undercarriage. The undercarriage follows the ground firmly for increased drawbar pull. Large strengthened shoes have been proven to be highly durable in various job sites all over the world.

Length of track on ground: 3150 mm

Automatic Transmission with Torque Converter

Greater power train efficiency is achieved by the new automatic gearshift transmission. 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).
COMFORT

New Integrated ROPS (ISO 3471) Cab
A newly designed cab is integrated with ROPS (ISO 3471). High rigidity and superb sealing performance sharply reduce noise and vibration for the operator and helps prevent dust from entering the cab. The result is relaxed operation in a comfortable environment for the operator. In addition, side visibility is increased because external ROPS structure and posts are not required. Outstanding visibility has been achieved.

Comfortable Ride with Cab Damper Mounting
The D155A-6’s cab mount uses a cab damper which provides excellent shock and vibration absorption capacity with its long stroke. Cab damper mounts soften shocks and vibration while traveling over adverse conditions, which conventional mounting systems are unable to absorb. The cab damper spring isolates the cab from the machine body, suppressing vibration and providing a quiet, comfortable operating environment.

Automatic Air Conditioner (A/C) (Optional)
Enables you to easily and precisely set cab atmosphere with the instruments on the large LCD monitor. The bi-level control function keeps the operator’s head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps front glass clear.

Pressurized Cab
Optional air conditioner, air filter and a higher internal air pressure minimize external dust from entering the cab.
Komatsu’s ergonomically designed control system “PCCS” creates an operating environment with “complete operator control.”

**Human-machine Interface Palm Command Control System (PCCS)**

Palm Command Electronic Controlled Travel Control Joystick

Palm command travel joystick provides the operator with a relaxed posture and superb fine control. Transmission gear shifting is simplified with thumb push buttons.

**Palm Command Pressure Proportional Control (PPC) Controlled Blade/Ripper Control Joystick**

Blade control joystick uses a PPC valve and blade control joystick ergonomics are similar to the travel control joystick. PPC control combined with the highly reliable Komatsu hydraulic system enables superb fine control.

**Gearshift Pattern Preset Function**

When the gearshift pattern is set to either <F1-R2>, <F2-R2> or <F2-R3L> in automatic gearshift mode, the gear is automatically shifted, reducing round trip repetition work time and operator’s efforts.

**Fuel Control Dial**

Engine revolution is controlled by an electronic signal, providing ease of operation, eliminating maintenance of linkage and joints.

**Height Adjustable Armrest (Optional)**

Armrest is height adjustable without any tools, providing the operator with firm arm support.

**Electronic Controlled Modulation Valve (ECMV) Controlled Transmission and Brakes**

Controller automatically adjusts each clutch engagement depending on travel conditions, providing smooth shockless clutch engagement, improved component life and operator ride comfort.
**Large Multi-lingual High Resolution LCD Monitor**

A large user-friendly high resolution LCD color monitor enables safe, accurate and smooth work. Visibility and resolution are further improved compared with current 7-inch large LCD. Simple and easy to operate switches. Function keys facilitate multi-function operations. Displays data in 10 languages to globally support operators around the world.

**Equipment Management Monitoring System**

**Troubleshooting function to keep operator informed**
Various meters, gauges, and warning functions are centrally arranged on the LCD monitor. Offers ease of start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities should occur. In addition, countermeasures are indicated in 4 stage error codes. Replacement times for oil and filters are also indicated.

**Electric dust indicator**
Electric dust indicator allows the monitor to display the caution icon for the air cleaner clogging on the screen to inform the operator sitting on the seat of the air cleaner clogging status.

**Maintenance function**
The monitor informs replacement time of oil and filters on the LCD when the replacement interval is reached.

**Trouble data memory function**
Monitor stores abnormalities for effective troubleshooting.
KOMTRAX delivers the energy-saving operation report based on the operating information such as fuel consumption, load summary and idling time, which helps you efficiently run a business.

The detailed information that KOMTRAX puts at your fingertips helps you manage your fleet conveniently on the web anytime, anywhere. It gives you the power to make better daily and long-term strategic decisions.
WORK EQUIPMENT

Blade

Innovative SIGMADOZER

Based on a completely new digging theory, SIGMADOZER dramatically improves dozing performance and increases productivity. A new frontal design concept adopted for digging and rolling up at the center of the blade increases soil holding capacity, simultaneously reducing sideway spillage. Reduced digging resistance produces smoother flow of earth, enabling the dozing of larger quantities of soil with less power. In addition, adoption of a new blade linkage system holds the blade closer to the tractor for improved visibility, enhanced digging force and reduced lateral sway of the blade. This is the new generation blade.

Ripper

Ripper performance

Ripper cylinders are reduced from four to two, greatly improving rear visibility during ripping. Also, expanded ripper movement offers a wider range of operation.

Newly designed ripper

D155A-6

D155A-2

Production increased by 15%

Compared with our conventional model

Shape of dozed material

D155A-6 rear visibility

Ripping reach

D155A-2

D155A-6
### Blade

<table>
<thead>
<tr>
<th>Type</th>
<th>Feature</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-U Dozer</td>
<td>The blade combines penetration ability of straight blade with increased load capacity provided by short wings which include only the end bits.</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>Strengthened Semi-U Dozer</td>
<td>A new frontal design concept adopted for digging and rolling up at the center of the blade increases soil holding capacity, simultaneously reducing sideway spillage. Reduced digging resistance produces smoother flow of earth, enabling the dozing of large quantities of soil with less power.</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>SIGMADOZER</td>
<td>The wings on this blade minimize material spillage. Since this blade has a lower HP/loose cubic yards than a straight-tilt dozer, this blade is suitable for moving lighter or loose materials over long distances. Suitable works are land reclamation, stockpiling and other similar jobs.</td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>Strengthened SIGMADOZER</td>
<td>Specialized blade for pushing coal, with larger width and deep angled wings.</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

### Ripper

<table>
<thead>
<tr>
<th>Type</th>
<th>Feature</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Giant Ripper</td>
<td>Specially made to handle hard rock with reinforced beam and a shank. The tilt angle of the ripper point is adjustable for better penetration and fragmentation.</td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
<tr>
<td>Variable Multi-shank Ripper</td>
<td>The ripper point angle can be varied hydraulically to suit the specific ground conditions. The ideal movement of ripper points ensures powerful digging force throughout the entire digging angle range.</td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>
MAINTENANCE

1. Easy Radiator Cleaning with Hydraulic Drive Fan
   The radiator can be cleaned by utilization of the reversible, hydraulically driven cooling fan. The fan can be reversed from inside the cab by simply turning the switch to reverse.

2. Flat Face O-ring Seals
   Flat face O-ring seals are used to securely seal all hydraulic hose connections and to help prevent oil leakage.

3. Measures Against Poor Quality Fuel
   In order to help protect the engine against dust and water contained in the fuel, the machine is equipped with a new high efficient main fuel filter and a large water separator. In addition, fuel tank drain valve, water drain valve of the water separator and fuel drain valve are concentrated at one place.

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

5. Gull-wing Engine Side Covers
   The opening area is further enlarged when gull-wing engine side covers are opened, facilitating engine maintenance and filter replacement. Side covers have been changed to a thick one-piece structure with a bolt-on catch to improve durability.

6. Enclosed Hydraulic Piping
   Hydraulic piping for the blade tilt cylinder is completely housed in the push arm, helping protect it from damage.

7. Modular Power Train Design
   Power train components are sealed in a modular design, making servicing work clean, smooth and easy.

8. Disc Brakes
   Wet disc brakes require less maintenance.

9. Sealed Connectors
   Main harnesses and controller connectors are equipped with sealed connectors providing high reliability, as well as water and dust resistance.

10. Dust-proof Measures
    Large fresh air pre-cleaner is also provided as optional equipment. The hydraulic tank and the fuel tank are equipped with a high-filtration breather with pressure valve to help prevent dust from entering.
To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

Fleet recommendation
Komatsu Distributor can study the customer’s job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.

Product support
Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

Parts availability
Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support
Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.
• Preventive Maintenance (PM) clinic
• Oil & Wear analysis program
• Undercarriage inspection service, etc.

Repair & maintenance service
Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components
Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu’s customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).
**SPECIFICATIONS**

**ENGINE**

Model: Komatsu SAA6D140E-5
Type: 4-cycle, water-cooled, direct injection
Aspiration: Turbocharged, air-to-air charged air cooler
Number of cylinders: 6
Bore x stroke: 140 mm x 165 mm
Piston displacement: 15.24 L
Governor: All-speed and mid-range, electronic
Horsepower SAE J1995: Gross 268 kW 360 HP
ISO 9249 / SAE J1349*: Net 264 kW 354 HP
* Net horsepower at the maximum speed of radiator cooling fan: Net 239 kW 320 HP
Rated rpm: 1900 min⁻¹
Fan drive type: Hydraulic

**TORQFLOW TRANSMISSION**

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

<table>
<thead>
<tr>
<th>Travel speed</th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>3.9 km/h</td>
<td>4.7 km/h</td>
</tr>
<tr>
<td>2nd</td>
<td>5.7 km/h</td>
<td>6.8 km/h</td>
</tr>
<tr>
<td>3rd L</td>
<td>7.5 km/h</td>
<td>9.2 km/h</td>
</tr>
<tr>
<td>3rd</td>
<td>11.4 km/h</td>
<td>13.7 km/h</td>
</tr>
</tbody>
</table>

**STEERING SYSTEM**

Palm Command Control System (PCCS) controls for all directional movements. Pushing the PCCS joystick forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the PCCS joystick to the left to make a left turn. Tilt it to the right for a right turn.

Wet, multiple-disc, pedal-controlled service brakes are spring-actuated and hydraulically released. Gearshift lock lever also applies parking brakes.

Minimum turning radius: 2.14 m

**UNDERCARRIAGE**

Suspension: Oscillation-type with equalizer bar and forward mounted pivot shafts
Track roller frame: Monocoque, high-tensile-strength steel construction

Track shoes:
- Lubricated tracks. Unique dust seals for helping prevent entry of foreign abrasives into pin-to-bushing clearance for extended service. Track tension easily adjusted with grease gun.
- Number of shoes (Each side): 41
- Grouser height: 80 mm
- Shoe width (Standard/maximum): 560 mm/710 mm
- Ground contact area: 35280 cm²
- Ground pressure (Tractor only): 90.2 kPa 0.92 kg/cm²
- Number of track rollers (Each side): 7
- Number of carrier rollers (Each side): 2

**COOLANT AND LUBRICANT CAPACITY**

- Fuel tank: 625 L
- Coolant: 82 L
- Engine oil: 37 L
- Damper: 1.5 L
- Transmission, bevel gear and steering system: 90 L
- Final drive (Each side): 81 L

**OPERATING WEIGHT**

Tractor weight: 32300 kg
Including rated capacity of lubricant, coolant, full fuel tank, operator and standard equipment
Operating weight: 41700 kg
Including Strengthened Semi U, giant ripper, cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

Ground pressure: 115.8 kPa 1.18 kg/cm²

**FINAL DRIVES**

Double-reduction, spur and planetary final drives increase tractive effort. Segmented sprockets are bolt-on for easy in-the-field replacement.
**Dimensions**

- **Overall Length with Dozer Blade:**
  - **Semi-U Dozer:** 6010 mm
  - **Strengthened Semi-U Dozer:** 6125 mm
  - **SIGMA DOZER:** 6125 mm
  - **U Dozer:** 6430 mm
  - **Coal Dozer:** 7005 mm
  - **Angle Dozer:** 6580 mm

- **Blade Capacity:**
  - **Semi-U Dozer:** 9.4 m³
  - **Strengthened Semi-U Dozer:** 9.4 m³
  - **SIGMA DOZER:** 9.4 m³
  - **U Dozer:** 11.9 m³
  - **Coal Dozer:** 11.9 m³
  - **Angle Dozer:** 4.6 m³

- **Blade Length x Height:**
  - **Semi-U Dozer:** 4130 mm x 1790 mm
  - **Strengthened Semi-U Dozer:** 4130 mm x 1790 mm
  - **SIGMA DOZER:** 4060 mm x 1850 mm
  - **U Dozer:** 4225 mm x 1790 mm
  - **Coal Dozer:** 5100 mm x 2125 mm
  - **Angle Dozer:** 4850 mm x 1170 mm

- **Maximum Lift above Ground:**
  - **Semi-U Dozer:** 1250 mm
  - **Strengthened Semi-U Dozer:** 1250 mm
  - **SIGMA DOZER:** 1320 mm
  - **U Dozer:** 1470 mm
  - **Coal Dozer:** 1416 mm
  - **Angle Dozer:** 1560 mm

- **Maximum Drop below Ground:**
  - **Semi-U Dozer:** 590 mm
  - **Strengthened Semi-U Dozer:** 590 mm
  - **SIGMA DOZER:** 617 mm
  - **U Dozer:** 596 mm
  - **Coal Dozer:** 538 mm
  - **Angle Dozer:** 660 mm

- **Maximum Tilt Adjustment:**
  - **Semi-U Dozer:** 950 mm
  - **Strengthened Semi-U Dozer:** 950 mm
  - **SIGMA DOZER:** 920 mm
  - **U Dozer:** 910 mm
  - **Coal Dozer:** 1050 mm
  - **Angle Dozer:** 520 mm

- **Weight:**
  - **Semi-U Dozer:** 4960 kg
  - **Strengthened Semi-U Dozer:** 5620 kg
  - **SIGMA DOZER:** 4940 kg
  - **U Dozer:** 6075 kg
  - **Coal Dozer:** 6075 kg
  - **Angle Dozer:** 5170 kg

**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. Variable piston pump with capacity (Discharge flow) of 200 L/min for implement at rated engine rpm.
- Relief valve setting for implement 27.5 MPa 280 kg/cm²

Control valves:
- Spool control valve for Semi-U tilt dozer and Full-U tilt dozer.
- Additional control valve required for variable digging angle multi-shank ripper and giant ripper.

Hydraulic cylinders: Double-acting, piston

<table>
<thead>
<tr>
<th>Number of Cylinders</th>
<th>Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Lift</td>
<td>2</td>
</tr>
<tr>
<td>Blade Tilt</td>
<td>1</td>
</tr>
<tr>
<td>Ripper Lift</td>
<td>1</td>
</tr>
<tr>
<td>Ripper Tilt</td>
<td>1</td>
</tr>
</tbody>
</table>

Hydraulic oil capacity (Refill):
- Semi-U dozer: 85 L
- U dozer: 85 L
- Ripper equipment (Additional volume):
  - Multi-shank ripper: 37 L
  - Giant ripper: 37 L

**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 help prevent damage.
**STANDARD EQUIPMENT FOR BASE MACHINE**

**Engine and transmission**
- Air cleaner, double element with dust indicator
- Blower cooling fan, hydraulic
- Decelerator pedal
- Engine, Komatsu SAA6D140E-5
- Muffler with rain cap
- Radiator with reserve tank
- TORQFLOW transmission

**Hydraulic system**
- Hydraulics for dozer
- Palm Command Control System (PCCS)

**Guard and covers**
- Fenders
- Rear cover
- Under guards, oil pan and transmission

**Electrical system**
- Alternator, 75 A
- Alternator, 90 A
- Battery disconnect switch
- Large capacity batteries
- Large pre-cleaner

**Undercarriage**
- Shoes
- 560 mm single grouser shoe
- Track roller full guard
- Sealed and lubricated track

**Operator environment**
- Large multi-lingual LCD color monitor
- Rear view mirror
- ROPS/FOPS Cab (ISO 3471/ISO 3449)
- Seat belt
- Suspension seat

**Other equipment**
- Backup alarm
- Horn, warning

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**OPTIONAL EQUIPMENT**

**Engine**
- Large pre-cleaner

**Electrical system**
- Additional working lights
- Alternator, 75 A
- Alternator, 90 A
- Battery disconnect switch
- Large capacity batteries

**Undercarriage**
- Shoes
- 560 mm Single-grouser
- 610 mm Single-grouser
- 660 mm Single-grouser
- 710 mm Single-grouser
- 560 mm Extreme Service Single-grouser
- 610 mm Extreme Service Single-grouser
- 660 mm Extreme Service Single-grouser

<table>
<thead>
<tr>
<th>Shoes</th>
<th>Additional Weight</th>
<th>Ground Contact Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>560 mm Single-grouser</td>
<td>-5 kg</td>
<td>35280 cm²</td>
</tr>
<tr>
<td>610 mm Single-grouser</td>
<td>+200 kg</td>
<td>38430 cm²</td>
</tr>
<tr>
<td>660 mm Single-grouser</td>
<td>+410 kg</td>
<td>41580 cm²</td>
</tr>
<tr>
<td>710 mm Single-grouser</td>
<td>+510 kg</td>
<td>44730 cm²</td>
</tr>
<tr>
<td>560 mm Extreme Service</td>
<td>+450 kg</td>
<td>35280 cm²</td>
</tr>
<tr>
<td>610 mm Extreme Service</td>
<td>+590 kg</td>
<td>38430 cm²</td>
</tr>
<tr>
<td>660 mm Extreme Service</td>
<td>+920 kg</td>
<td>41580 cm²</td>
</tr>
</tbody>
</table>

**Work equipment**
- Blade
  - Angle dozer
  - Coal dozer
  - Full-U dozer
  - Semi-U dozer
  - SIGMADOZER
  - Strengthened semi-U dozer
  - Strengthened SIGMADOZER
  - Rigid drawbar
  - Variable giant ripper
    - Additional weight (including hydraulic control unit): 3380 kg
    - Beam length: 1410 mm
    - Hydraulically-controlled parallelogram-type ripper with one shank.
    - Digging angle infinitely adjustable.
    - Standard digging angle: 45°
    - Maximum digging depth: 1370 mm
    - Maximum lift above ground: 900 mm
  - Variable multi-shank ripper
    - Additional weight (including hydraulic control unit): 3760 kg
    - Beam length: 2320 mm
    - Hydraulically-controlled parallelogram-type ripper with three shanks.
    - Digging angle infinitely adjustable.
    - Standard digging angle: 45°
    - Maximum digging depth: 900 mm
    - Maximum lift above ground: 900 mm

**Operator environment**
- Air conditioner (A/C)
- Cab heater and defroster

**Other equipment**
- Provision for aftermarket machine control system, TOPCON
- Rear view monitor system
- Tool kit

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Komatsu Ltd. Japan.