

# D155AX-5 LONG TRACK

**INTRODUCTORY**

FLYWHEEL HORSEPOWER  
231 kW 310 HP @ 1900 rpm

OPERATING WEIGHT  
36000 kg 79,370 lb

BLADE CAPACITY  
8.8 m<sup>3</sup> 11.5 yd<sup>3</sup>

**KOMATSU**<sup>®</sup>



# D155AX-5 LT

**CRAWLER DOZER**<sup>®</sup>

# SPECIFICATIONS



## ENGINE

Komatsu SA6D140E-1, water-cooled, 4-cycle, overhead valve, direct injection, turbocharged and aftercooled, diesel engine, 6 cylinders with 140 mm **5.51"** bore x 165 mm **6.50"** stroke and 15.24 ltr **930 in<sup>3</sup>** piston displacement.

Gross horsepower\* . . . . . 251 kW **337 HP** at 1900 rpm  
 Flywheel horsepower\*\* . . . . . 231 kW **310 HP** at 1900 rpm  
 Maximum torque . . . . . 164 kg/m **1,186 lb/ft** @ 1250 rpm

\* Gross horsepower output for complete engine operating under J1995 conditions.

\*\* Net flywheel horsepower output for standard engine (SAE J1349) including air cleaner, alternator (not charging), water pump, lubricating oil pump, fuel pump, muffler, and fan.

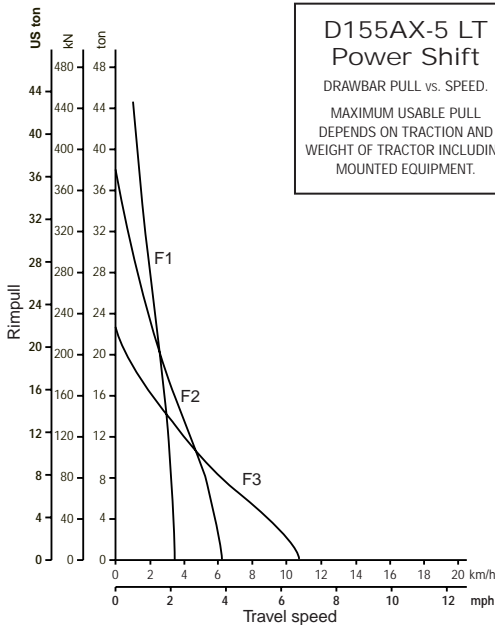
Direct injection fuel system. All-speed mechanical governor. Forced lubrication driven by gear pump. Full-flow filter for lube oil purification. Dual element, dry-type air filters with automatic dust ejector and dust indicator. 11 kW/**24V** electrical starting motor. 35A/**24V** alternator. 170 Ah/**2 x 12V** batteries.



## TORQFLOW TRANSMISSION

Komatsu's 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. Joystick control of gears (3 forward and 3 reverse) and directional and steering changes. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

Travel speed	Forward	Reverse
1st	0-3.5 km/h 0-2.2 mph	0-4.8 km/h 0-3.0 mph
2nd	0-6.2 km/h 0-3.9 mph	0-8.4 km/h 0-5.2 mph
3rd	0-10.8 km/h 0-6.7 mph	0-13.9 km/h 0-8.6 mph



## FINAL DRIVE

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



## STEERING

Joystick controls for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the joystick to the left to make a left turn. Tilt it to the right for a right turn.

Hydrostatic steering system (HSS) is powered by steering planetary units and an independent hydraulic pump and motor. Counter rotation turns are also available. Wet, multiple-disc, pedal-controlled service brakes are spring-actuated and hydraulically released. Gearshift lock lever also applies service brakes.

Minimum turning radius . . . . . 2.1 m **6'11"**  
 (As measured by track marks on ground.)



## UNDERCARRIAGE

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

Number of track rollers (each side) . . . . . 8  
 Number of carrier rollers (each side) . . . . . 2

Lubricated tracks. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clearance for extended service. Track tension easily adjusted with grease gun.

Number of shoes (each side) . . . . . 44  
 Grouser height . . . . . 80 mm **3.1"**  
 Shoe width (standard/maximum) . . . . . 710 mm **28"**  
 Ground contact area . . . . . 50410 cm<sup>2</sup> **7,814 in<sup>2</sup>**  
 Ground pressure (tractor only) . . . . . 0.61 kg/cm<sup>2</sup> **8.69 psi**  
 Gauge . . . . . 2100 mm **6'11"**





### COOLANT AND LUBRICANT CAPACITY (REFILLING)

Coolant	99 ltr	<b>26.2 U.S. gal</b>
Fuel tank	625 ltr	<b>165 U.S. gal</b>
Engine oil	37 ltr	<b>9.8 U.S. gal</b>
Damper	1.5 ltr	<b>0.4 U.S. gal</b>
Transmission, bevel gear and steering system	60 ltr	<b>15.9 U.S. gal</b>
Final drive (each side)	58 ltr	<b>15.3 U.S. gal</b>



### OPERATING WEIGHT (APPROXIMATE)

**Tractor weight:**  
Including rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment . . . . . 30800 kg **67,900 lb**

**Operating weight:**  
Operating weight\* . . . . . 36000 kg **79,370 lb**  
Ground pressure . . . . . 0.71 kg/m<sup>2</sup> **10.2 psi**

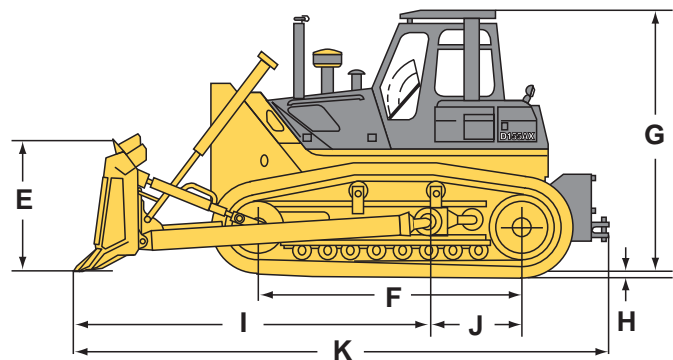
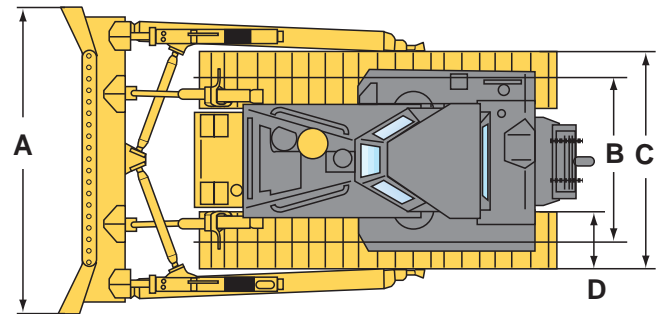
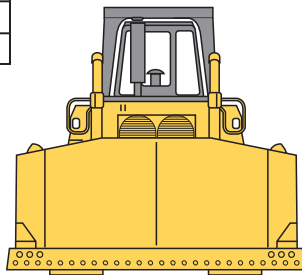
\*Including semi-U tilt dozer, steel cab, ROPS, operator, standard equipment, rated capacity of lubricant, coolant, full fuel tank, optional air conditioner.



### DIMENSIONS (SEMI-U DOZER)

Overall length 6640 mm **21'10"**

A	3955 mm	<b>13'</b>
B	2100 mm	<b>6'11"</b>
C	2810 mm	<b>9'3"</b>
D	710 mm	<b>28"</b>
E	1720 mm	<b>5'8"</b>
F	3550 mm	<b>11'8"</b>
G	3500 mm	<b>11'6"</b>
H	80 mm	<b>3"</b>
I	4745 mm	<b>15'7"</b>
J	1240 mm	<b>4'1"</b>
K	7130 mm	<b>23'5"</b>



### 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 . . . . . 210 kg/cm<sup>2</sup> **2,990 psi**

#### Control valves:

Spool control valve for semi-U tilt dozer

Positions:

- Blade lift . . . . . Raise, hold, lower, and float
- Blade tilt . . . . . Right, hold, and left

**Hydraulic cylinders** . . . . . Double-acting, piston

	Number of cylinders	Bore
Blade lift	2	120 mm <b>4.72"</b>
Blade tilt	1	180 mm <b>7.09"</b>

#### Hydraulic oil capacity (refilling):

Semi-U tilt dozer . . . . . 87 ltr **23.0 U.S. gal**



### 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.

	Overall length with dozer	Blade capacity	Blade length x height	Maximum lift above ground	Maximum drop below ground	Maximum tilt adjustment	Additional weight
Semi-U tilt dozer	6300 mm <b>20'8"</b>	8.8 m <sup>3</sup> <b>11.5 yd<sup>3</sup></b>	3955 mm x 1720 mm <b>13' x 5'8"</b>	1250 mm <b>4'1"</b>	590 mm <b>1'11"</b>	1000 mm <b>3'3"</b>	5710 kg <b>12,590 lb</b>



**STANDARD EQUIPMENT  
FOR BASE MACHINE**

**ENGINE AND ITS RELATED ITEMS:**

- Engine, KOMATSU SA6D140E-1, 231 kW **310 HP**, turbocharged, aftercooled, direct injection, emission certified, diesel
- Engine precleaner
- Exhaust pipe with rain cap
- Fan, blower
- Fuel hoses, general purpose

**ELECTRICAL SYSTEM:**

- Alternator, 50 Ampere
- Back-up alarm
- Batteries, large capacity
- Starter, 11.0 kW

**POWER TRAIN AND STEERING CONTROLS:**

- Hydrostatic Steering System (HSS)
- Mono-lever steering with PPC
- Three forward, three reverse speeds
- Torqflow transmission
- Torque converter

**UNDERCARRIAGE:**

- Track frame
- Track roller guards
- Track shoes assembly, 610 mm **24"** extreme service with sealed and lubricated link assembly

**GUARDS AND COVERS:**

- Engine hood and side panels, perforated
- Radiator guard door, sound deflection
- Rear cover
- ROPS mount brackets
- Under guards, hinged with front pull device

**OPERATOR COMPARTMENT:**

- Lunchbox holder
- Seat, suspension, fully adjustable
- Seat belt

**HYDRAULICS AND CONTROLS:**

- Blade lift cylinders

**SPECIAL ARRANGEMENTS:**

- Hard water area arrangement (corrosion resister)
- High altitude arrangement (no fuel adjustment up to 3000 m **10,000 ft**)
- Hot area arrangement, -20°C **-4°F** through +50°C **+122°F**
- Poor fuel (contamination) area arrangement (additional fuel filter)

**VANDALISM PROTECTION:**

- Filler cap locks and cover locks

**OTHER:**

- Marks and plates, for USA and Puerto Rico

ROPS canopy must be ordered for all machines.  
Dozer assembly and rear mounted equipment are not included.



**OPTIONAL EQUIPMENT**

**COUNTERWEIGHT:**

- Segmented plate, 2122 kg **4,679 lb**

**ROPS CANOPY:**

- Additional weight 505 kg **1,110 lb**
- Meets ISO 3741, SAE J1040 APR88, and ISO 3449 FOPS standards.
- Roof dimensions:
  - Length: 1275 mm **4'2"**
  - Width: 1500 mm **4'11"**
  - Height from operator compartment floor: 1757 mm **5'9"**

**STEEL CAB:**

- Additional weight: 285 kg **630 lb**
- All-weather, enclosed pressurized cab
- Roof dimensions:
  - Length: 1765 mm **5'9"**
  - Width: 1720 mm **5'8"**
  - Height from floor to ceiling: 1515 mm **5'2"**

**OTHER:**

- Additional rear light for ripper
- Air conditioner with heater, defroster, pressurizer
- Converter, **24V**
- Fast fuel fill adaption
- Fire extinguisher
- Heater and defroster
- Hydraulic provision for ripper
- Hydraulic pitch for semi-U
- Instrument panel cover and lock (for ROPS canopy)
- Mirror, convex inside cab
- Radiator core protective grid
- Radiator guard door, strengthened, hinged
- Reversible fan
- Rigid drawbar
- Seat with fabric surface (cab only)
- Sprocket, scallop type
- Sun visor
- Water separator
- Working light for ripper



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