

# KOMATSU®

# D155AX-8

Tier 4 Final Engine

## CRAWLER DOZER

# D155



Photos may include optional equipment.

### NET HORSEPOWER

354 HP @ 1900 rpm  
264 kW @ 1900 rpm

### OPERATING WEIGHT

89,300 lb  
40500 kg

### BLADE CAPACITY

12.3 yd<sup>3</sup> 9.4 m<sup>3</sup> SIGMADOZER  
15.6 yd<sup>3</sup> 11.9 m<sup>3</sup> Full-U

# SPECIFICATIONS



## ENGINE

Model.....Komatsu SAA6D140E-7\*\*  
 Type.....4-cycle, water-cooled, direct injection  
 Aspiration.....Komatsu Variable Geometry  
                   Turbocharged, air-to-air aftercooled, cooled EGR  
 Number of cylinders.....6  
 Bore x stroke.....140 mm x 165 mm **5.51" x 6.50"**  
 Piston displacement.....15.24 ltr **930 in<sup>3</sup>**  
 Governor.....Mid-range, electronic  
 Horsepower  
     SAE J1995.....Gross 268 kW **360 HP**  
     ISO 9249 / SAE J1349\*.....Net 264 kW **354 HP**  
 Rated rpm.....1900 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.....239 kW **320 HP**

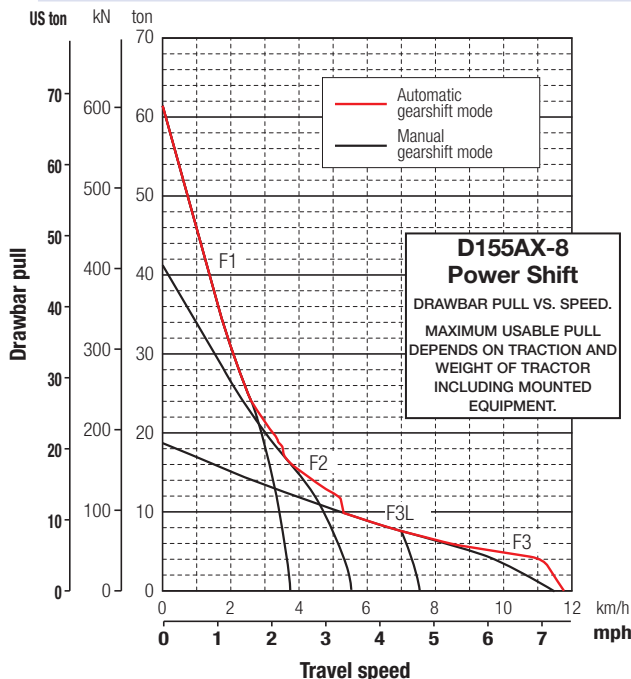
\*\*EPA Tier 4 Final emissions certified



## TORQFLOW TRANSMISSION

Komatsu's automatic 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 force-lubricated for optimum heat dissipation. Equipped with gearshift lock lever and neutral safety switch.

Travel speed	Forward	Reverse
<b>1st</b>	3.8 km/h <b>2.4 mph</b>	4.6 km/h <b>2.9 mph</b>
<b>2nd</b>	5.6 km/h <b>3.5 mph</b>	6.8 km/h <b>4.2 mph</b>
<b>3rd L</b>	7.5 km/h <b>4.7 mph</b>	9.2 km/h <b>5.7 mph</b>
<b>3rd</b>	11.6 km/h <b>7.2 mph</b>	14.0 km/h <b>8.7 mph</b>



## FINAL DRIVES

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



## STEERING SYSTEM

PCCS lever controls for all directional movements. Pushing the PCCS lever forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the PCCS lever 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 parking brakes.

Minimum turning radius . . . . . 2.14 m **7'0"**



## UNDERCARRIAGE

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

### K-Bogie undercarriage

Lubricated track rollers are resiliently mounted the track frame with a bogie suspension system whose oscillating motion is cushioned by rubber pads.

### Track shoes

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) . . . . . 42  
 Grouser height . . . . . 80 mm **3.1"**  
 Shoe width (standard/maximum) . . . . . 610 mm **24"/710 mm 28"**  
 Ground contact area . . . . . 39955 cm<sup>2</sup> **6,193 in<sup>2</sup>**  
 Ground pressure (tractor only) . . . . . 80.3 kPa 0.82 kg/cm<sup>2</sup> **11.6 psi**  
 Number of track rollers (each side) . . . . . 7  
 Number of carrier rollers (each side) . . . . . 2



## SERVICE REFILL CAPACITIES

Fuel tank . . . . . 625 ltr **165 U.S. gal**  
 Coolant . . . . . 104 ltr **27.5 U.S. gal**  
 Engine oil . . . . . 37 ltr **9.8 U.S. gal**  
 Damper . . . . . 1.5 ltr **0.4 U.S. gal**  
 Transmission, bevel gear, steering system . . . . . 90 ltr **23.8 U.S. gal**  
 Final drive (each side) . . . . . 31 ltr **8.2 U.S. gal**  
 DEF tank . . . . . 39 ltr **10.3 U.S. gal**  
 Hydraulic oil capacity . . . . . 95 ltr **25.1 U.S. gal**



## OPERATING WEIGHT (APPROXIMATE)

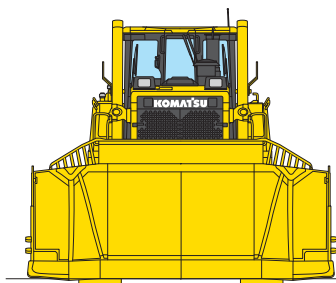
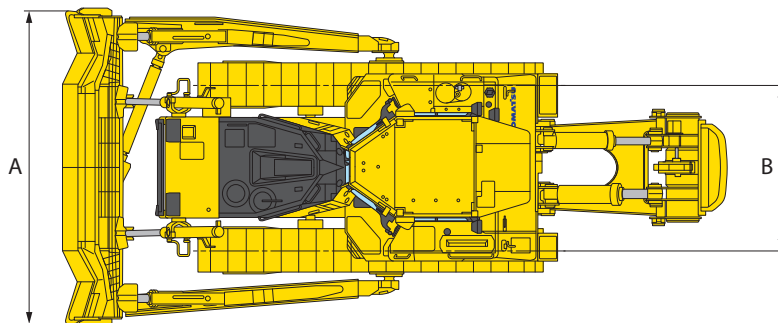
Tractor weight . . . . . 32700 kg **72,100 lb**  
     Including rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment (including ROPS cab).  
 Operating weight . . . . . 40500 kg **89,300 lb**  
     Including strengthened SIGMADOZER, giant ripper, ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.  
 Ground pressure . . . . . 99.5 kPa 1.01 kg/cm<sup>2</sup> **14.4 psi**

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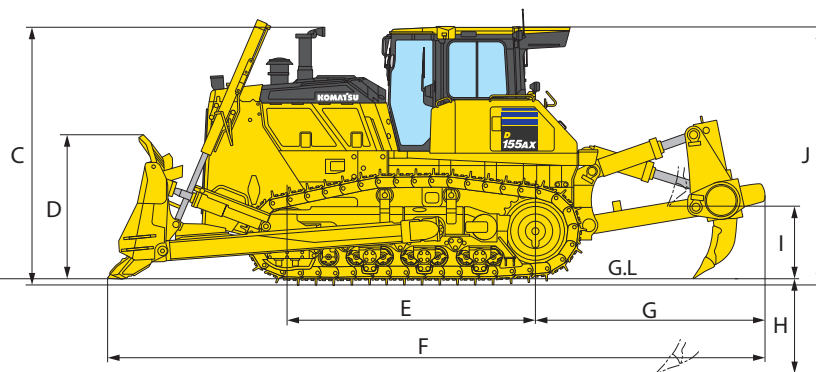


## DIMENSIONS

A	4060 mm	<b>13'4"</b>
B	2140 mm	<b>7'0"</b>
C	3385 mm	<b>11'1"</b>
D	1850 mm	<b>6'1"</b>
E	3275 mm	<b>10'9"</b>
F	8420 mm	<b>27'7"</b>
G	2745 mm	<b>9'0"</b>
H	1240 mm	<b>4'1"</b>
I	950 mm	<b>3'1"</b>
J	3390 mm	<b>11'1"</b>



Ground clearance: 500 mm **1'8"**



## 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 325 L/min **85.9 U.S. gal** for steering and 180 L/min **47.6 U.S. gal** for implement at rated engine rpm.

Relief valve setting

- ..... for implement 27.5 MPa 280 kg/cm<sup>2</sup> **3,980 psi**
- ..... for steering 38.2 MPa 390 kg/cm<sup>2</sup> **5,550 psi**

Control valves:

Spool control valve for SIGMADOZER, Semi-U tilt dozer and Full-U tilt dozer.

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

Spool control valve for variable digging angle multi-shank ripper and giant ripper.

- Positions: Ripper lift ..... Raise, hold, and lower
- Ripper tilt ..... Increase, hold, and decrease
- Hydraulic cylinders ..... Double-acting, piston

	Number of cylinders	Bore
<b>Blade Lift</b>	2	110 mm <b>4.33"</b>
<b>Blade Tilt</b>	1	160 mm <b>6.30"</b>
<b>Ripper Lift</b>	1	180 mm <b>7.09"</b>
<b>Ripper Tilt</b>	1	200 mm <b>7.87"</b>

Hydraulic oil capacity (refill):

SIGMADOZER .....	95.0 ltr <b>25.1 U.S. gal</b>
Semi-U tilt dozer .....	95.0 ltr <b>25.1 U.S. gal</b>
U-tilt dozer .....	95.0 ltr <b>25.1 U.S. gal</b>

Ripper equipment (additional volume):

Multi-shank ripper .....	37 ltr <b>9.8 U.S. gal</b>
Giant ripper .....	37 ltr <b>9.8 U.S. gal</b>



## 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	Max. Lift Above Ground	Max. Drop Below Ground	Max. Tilt Adjustment	Additional Weight
Strengthened SIGMADOZER*	6320 mm <b>20'9"</b>	9.4 m <sup>3</sup> <b>12.3 yd<sup>3</sup></b>	4060 mm x 1850 mm <b>13'4" x 6'1"</b>	1315 mm <b>4'4"</b>	676 mm <b>2'3"</b>	870 mm <b>2'10"</b>	5410 kg <b>11,930 lb</b>
Full-U Tilt Dozer*	6785 mm <b>22'3"</b>	11.9 m <sup>3</sup> <b>15.6 yd<sup>3</sup></b>	4225 mm x 1790 mm <b>13'10" x 5'10"</b>	1245 mm <b>4'1"</b>	590 mm <b>1'11"</b>	920 mm <b>3'0"</b>	5680 kg <b>12,520 lb</b>
Semi-U Tilt Dozer*	6370 mm <b>20'11"</b>	9.4 m <sup>3</sup> <b>12.3 yd<sup>3</sup></b>	4130 mm x 1790 mm <b>13'7" x 5'10"</b>	1245 mm <b>4'1"</b>	590 mm <b>1'11"</b>	860 mm <b>2'10"</b>	5010 kg <b>11,040 lb</b>

\* Dual Tilt and Power Pitch Dozer



## STANDARD EQUIPMENT FOR BASE MACHINE\*

- Air cleaner, double element with dust indicator
  - Alternator, 140 ampere/24V
  - Backup alarm
  - Batteries, 200 Ah/2 x 12V
  - Battery disconnect switch
  - Blade lift cylinders with double dust seal
  - Color monitor, LCD
  - Decelerator pedal
  - Engine hood
  - Engine idle auto shutdown with adjustable timer
  - Engine intake centrifugal precleaner
  - Engine, gull-wing side covers
  - Engine shutdown secondary switch
  - Exhaust pipe with raincap
  - Fast fuel provision
  - Fenders
  - Front pull hook
  - Fuel pre-filter and primary filter
  - Grid heater starting aid in cold weather
  - High mount foot rests
  - Horn, warning
  - Hydraulic driven radiator cooling fan with manual reverse clean mode
  - Hydraulics for dual tilt and pitch dozer
  - Hydraulics for ripper VGR/MSR
  - KOMTRAX® Level 5
  - K-bogie undercarriage
  - Komatsu Diesel Particulate Filter (KDPF)
  - Komatsu Variable Geometry Turbocharger (KVTG)
  - Komatsu Selective Catalytic Reduction (SCR)
  - Locks, filler caps and covers
  - Oil pressure check ports for power train
  - PM service connector
  - Radiator mask, double door, heavy-duty, hinged, perforated
  - Radiator reserve tank
  - Rear cover
  - ROPS cab (1420 kg, **3,131 lb**)\*\*
    - Air conditioner/heater/defroster
      - Pressurized
      - Condenser remote mounted
    - Cab accessories
      - 12V power supply (2 ports)
      - Cup holder
      - Rearview mirror
      - Rear view monitoring (1 camera)
      - AM/FM Radio w/remote AUX plug (3.5 mm)
      - Lunch box holder
    - Work lights
      - 2 front, hood mounted
      - 2 front, cab mounted
      - 2 rear, fender mounted
      - 2 rear, cab mounted
      - 1 rear, for ripper point
  - Seat, air suspension, fabric, heated, low back, rotates 12.5° to right, headrest
  - Seat belt, 76 mm **3"**, retractable
  - Seat belt indicator
  - Sealed electrical connectors
  - Starting motor, 11.0 kW/24V
  - Steering system:
    - Hydrostatic Steering System (HSS)
  - Torque converter with auto lock-up
  - Track roller guards, end sections
  - Track shoe assembly
    - Sealed and lubricated
    - 610 mm **24"** extreme service shoes
  - Transmission with auto/manual shift modes
  - Underguards, heavy duty
    - Hinged belly pans
  - Water separator, fuel
  - Wide core cooling package, 6 fins per inch spacing
- \* Dozer assembly and rear mounted equipment are not included in base machine standard equipment
- \*\* Cab meets OSHA/MSHA ROPS and FOPS Level 2 standards

Note: Machine does not support aftermarket grade control installations (Topcon/Trimble).



## OPTIONAL EQUIPMENT

### ■ Shoes

Shoes, single grouser	Additional weight	Ground contact area	Shoes, single grouser	Additional weight	Ground contact area
660 mm <b>26"</b> extreme service	+240 kg <b>+530 lb</b>	43230 cm <sup>2</sup> <b>6,700 in<sup>2</sup></b>	660 mm <b>26"</b> PLUS extreme service	+819 kg <b>+1,806 lb</b>	43230 cm <sup>2</sup> <b>6,700 in<sup>2</sup></b>
710 mm <b>28"</b> moderate service	<b>No additional</b>	46505 cm <sup>2</sup> <b>7,208 in<sup>2</sup></b>	710 mm <b>28"</b> PLUS extreme service	+1029 kg <b>+2,269 lb</b>	46505 cm <sup>2</sup> <b>7,208 in<sup>2</sup></b>
610 mm <b>24"</b> PLUS extreme service	+569 kg <b>+1,254 lb</b>	39955 cm <sup>2</sup> <b>6,193 in<sup>2</sup></b>			

### ■ Variable multi-shank ripper

- Additional weight (including hydraulic control unit): 3760 kg **8,290 lb**
- Beam length: 2320 mm **7'7"**
- Hydraulically-controlled parallelogram-type ripper with three shanks. Digging angle infinitely adjustable. Standard digging angle\*: 49°
- Maximum digging depth: 900 mm **2'11"**
- Maximum lift above ground: 950 mm **3'1"**

### ■ Variable giant ripper

- Additional weight (including hydraulic control unit): 2440 kg **5,380 lb**
- Beam length: 1400 mm **4'7"**
- Hydraulically-controlled parallelogram-type ripper with one shank. Digging angle infinitely adjustable. Standard digging angle\*: 49°
- Maximum digging depth: 1240 mm **4'1"**
- Maximum lift above ground: 950 mm **3'1"**

\* Measured with ripper point on ground and shank vertical.

### ■ Other

- HD Counterweight 9-plate with rigid drawbar, 3568 kg **7,860 lb**
- Sigma push group (bladeless) for Allied blade

### ■ Dozer Equipment

- SIGMADOZER®
- Full-U
- Semi-U



## ALLIED MANUFACTURER'S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Medford
  - Front sweeps covered bullnose 578 kg **1,275 lb**
  - Front sweeps covered bullnose plus cab roof/AC guard 794 kg **1,750 lb**
- Hinged cab rear screen 61 kg **135 lb**
- Hinged cab side screens 75 kg **165 lb**
- Tank guards 612 kg **1,350 lb**
- Hydraulic winch with drawbar - Allied H12E 1800 kg **4,000 lb**
- Manual angle power tilt blade - Rockland 6473 kg **14,270 lb**

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