NET HORSEPOWER
264 kW **354 HP** @ 1900 rpm

OPERATING WEIGHT
39500 kg **87,100 lb**

KOMATSU®

D155AX-6
With Tier 3 Engine

D155

CRAWLER DOZER

Photos may include optional equipment.

WALK-AROUND

OUTSTANDING PRODUCTIVITY & FUEL ECONOMY

Innovative SIGMADOZER reduces digging resistance and demonstrates smooth material roll up to increase blade load.
Blade capacity 9.4 m^3 **12.3 yd^3**.

Automatic transmission with lockup torque converter increases speed and power to improve fuel consumption and productivity. See page 5.

PCCS (Palm Command Control System)

- Electronic controlled PCCS travel control
- Electronic controlled PCCS blade/ripper control
- Fuel control dial
- Automatic/manual gearshift selectable mode
- Gearshift pattern preset function
- ECMV controlled transmission

SAA6D140E-5 turbocharged after-cooled diesel engine provides an output of 264 kW **354 HP** with excellent productivity, and is EPA Tier 3, EU stage 3A and Japan emissions certified.

Hydraulic drive radiator cooling fan controlled automatically, reduces fuel consumption and operating noise levels

Gull-wing engine side covers
for easy and efficient engine servicing

Blade tilt lines completely protected

Increased-track length, seven roller undercarriage
ensures outstanding grading ability and stability

K-Bogie undercarriage system
improves traction, component durability, and operator comfort

KOMTRAX

KOMTRAX equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

Extra-low machine profile
provides excellent machine balance and low center of gravity

D155AX-6

NET HORSEPOWER
264 kW **354 HP** @ 1900 rpm

OPERATING WEIGHT
39500 kg **87,100**

BLADE CAPACITY
9.4 m³ **12.3 yd³**

New integrated ROPS cab includes:

- Large quiet operator environment
- Comfortable ride with new cab damper
- Excellent visibility without ROPS post
- High capacity air conditioning system
- Pressurized cab
- Adjustable armrests and suspension seat

HSS (Hydrostatic Steering System)

provides smooth, quick, and powerful control in various ground condition

Large TFT LCD monitor

- Easy-to-see and use 7" large multi-color monitor.
- Can be displayed in 10 languages for global support.

TFT : Thin Film Transistor
LCD : Liquid Crystal Display

Newly designed ripper

offers excellent ripper visibility

Photos may include optional equipment.

High-rigidity, simple hull frame

and monocoque track frame with pivot shaft for greater reliability

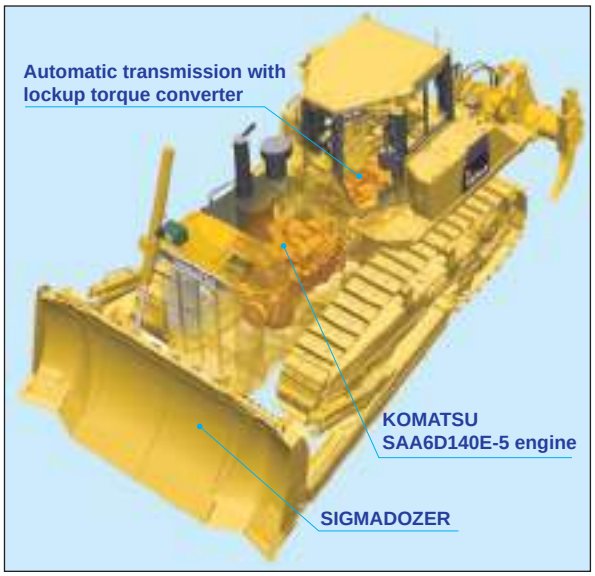
Modular power train for increased serviceability and durability. Forward mounted pivot shafts isolate final drives from blade loads

Wet disc brakes require less maintenance

GALEO

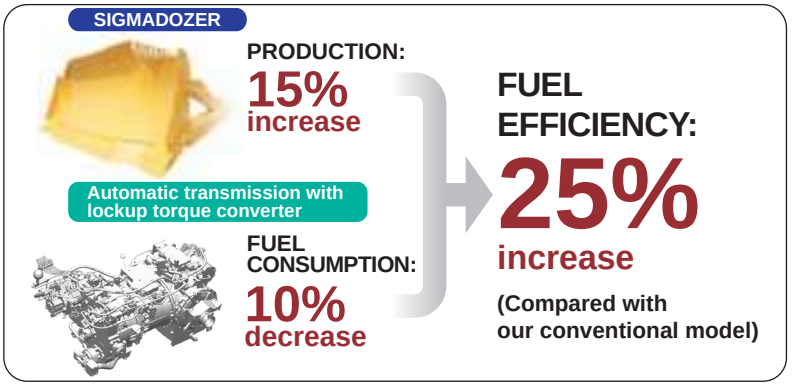
Komatsu's highly productive, innovative technology, environmentally friendly machines built for the 21st century.

PRODUCTIVITY AND FUEL ECOMONY FEATURES



New fuel efficient bulldozer

New D155AX-6 has achieved both high levels of productivity and fuel economy through usage of SIGMADOZER and automatic transmission with lockup torque converter. SIGMADOZER developed based on a completely new excavation theory-dramatically increasing production. The highly efficient transmission greatly reduces fuel consumption. The D155AX-6 significantly improves fuel efficiency and production compared with our conventional model.



Outstanding productivity

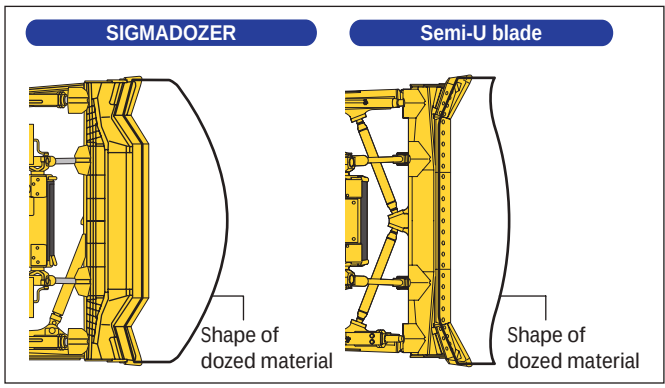
Production increased by 15%
(compared to the D155AX-5B)

SIGMADOZER

Based on a completely new excavating theory, SIGMADOZER dramatically improves dozing performance and increases productivity. A new frontal design concept adopted for digging and rolling material at the center of the blade increases soil holding capacity and also eliminates sideway spillage. Reduced digging resistance produces smoother flow of material, 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. This also enhances digging force and reduced lateral sway of the blade.

SIGMADOZER
D155AX-6

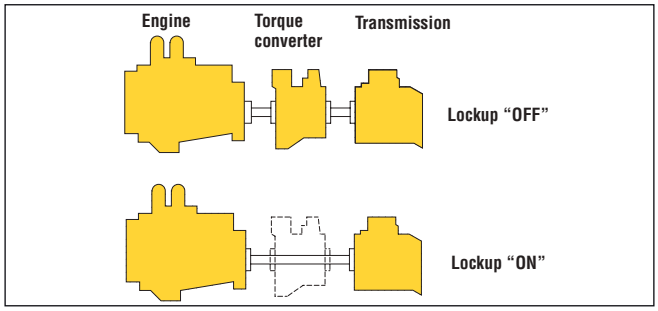
Semi-U blade
D155AX-5



Outstanding fuel economy

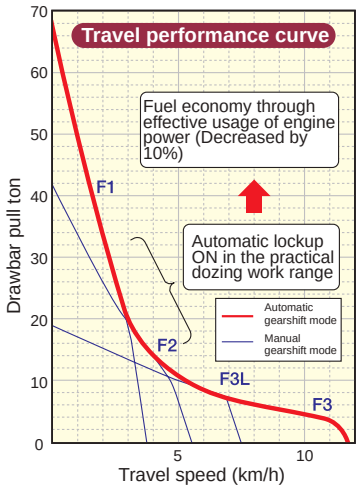
Automatic transmission with lockup torque converter

A sharp reduction in fuel consumption and greater power train efficiency is achieved by the new automatic gearshift transmission and lock up torque converter. 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 by the operator with a switch.



Fuel consumption decreased by 10% (compared to the D155AX-5B)

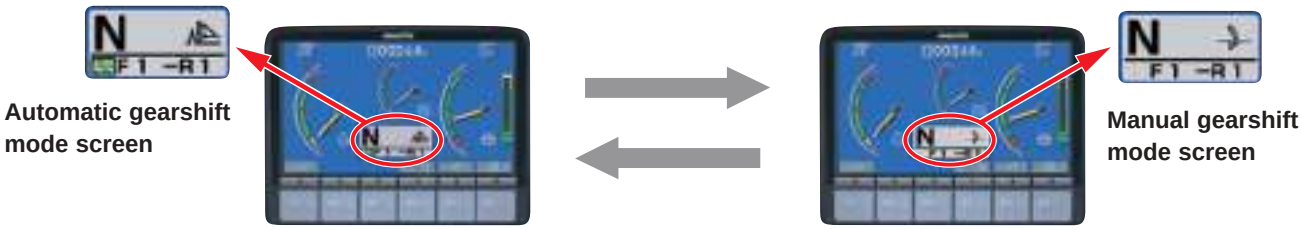
Lockup mechanism of torque converter is automatically actuated to transfer engine power directly to the transmission in usual dozing speed range. Locking up the torque converter eliminates loss of horsepower by 10%. Because the electronically controlled engine is extremely efficient, a decrease in fuel consumption is realized while also maintaining machine power.



Automatic/manual gearshift selectable mode

Automatic or manual gearshift modes can be selected with ease to suit the application by simply pressing the switch on the multi-monitor (selection at neutral).

- **Automatic gearshift mode**
  The mode for general dozing. When a load is applied, the transmission automatically shifts down, and when the load is off, it automatically shifts up to a set maximum gear speed. This mode economizes both fuel and production in conjunction with the torque converter lockup mechanism.
- **Manual gearshift mode**
  The mode for dozing and ripping rough ground. When loaded, the transmission automatically shifts down, but does not shift up when the load is off.



PRODUCTIVITY FEATURES

ecot3
ecology & economy - technology 3

Komatsu's new "ecot3" engines are designed to deliver optimum performance under the toughest of conditions, while meeting the latest environmental regulations. This engine is EPA Tier 3, EU Stage 3A and Japan emissions certified; "ecot3" - ecology and economy combine with Komatsu technology to create a high performance engine without sacrificing power or productivity.

Engine

Fuel efficient electronic controlled engine

The Komatsu SAA6D140E-5 engine delivers 264 kW **354 HP** at 1900 rpm. The fuel-efficient, powerful Komatsu engine makes the D155AX-6 superior in both ripping and dozing operations. The engine is EPA Tier 3, EU stage 3A and Japan emissions certified. The engine is turbocharged and features direct fuel injection and air-to-air aftercooling to maximize power, fuel efficiency and emission compliance. To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

Hydraulic drive radiator cooling fan

The engine cooling fan rotation speed is electronically controlled. The fan rotation speed depends on engine coolant and hydraulic oil temperatures, the higher the temperature the higher the fan speed. This system increases fuel efficiency, reduces the operating noise levels and requires less horsepower than belt driven fan.

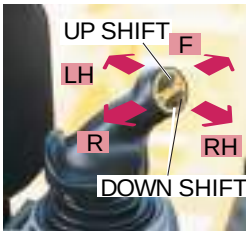
CONTROL FEATURES

Human-Machine Interface PCCS (Palm Command Control System)

Komatsu's ergonomically designed control system "PCCS" creates an operating environment with "complete operator control."

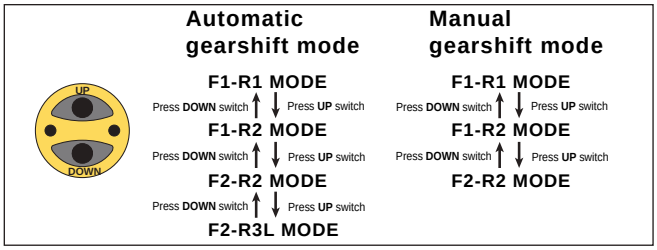
Palm command electronic controlled travel control joystick

Palm command travel joystick provides the operator with a relaxed posture and superb fine control without operator fatigue. Transmission gear shifting is simplified with thumb push buttons.



Gearshift pattern preset function

When the gearshift pattern is set to either <F1-R2>, <F2-R2> or <F2-R3L> in automatic gearshift mode, the transmission is automatically shifted, reducing operator repetition and fatigue.



ECMV (Electronic Controlled Modulation Valve) controlled transmission and brakes

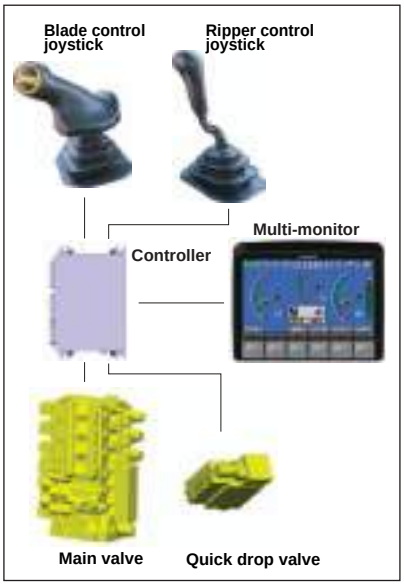
The electronic controller automatically adjusts each clutch engagement depending on travel conditions, providing smooth shockless clutch engagement, improved component life and operator ride comfort.

Hydrostatic Steering System—smooth, powerful turning

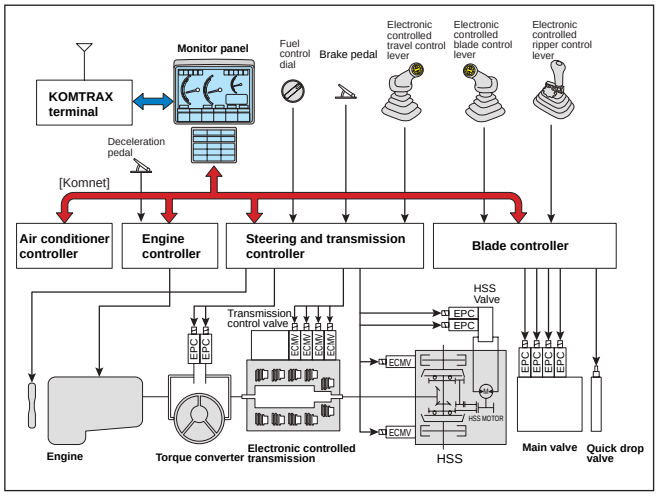
The engine power is transmitted to both tracks without power interruption on the inside track for smooth, powerful turns. The HSS system allows minimum turning radius and provides excellent maneuverability.

Palm command electronic controlled blade/ripper control joystick

Electronically-controlled palm command joystick is equipped for blade/ ripper control. Combined with the highly reliable Komatsu hydraulic system, excellent machine control is the result.



Outline of electronic control system



WORKING ENVIRONMENT

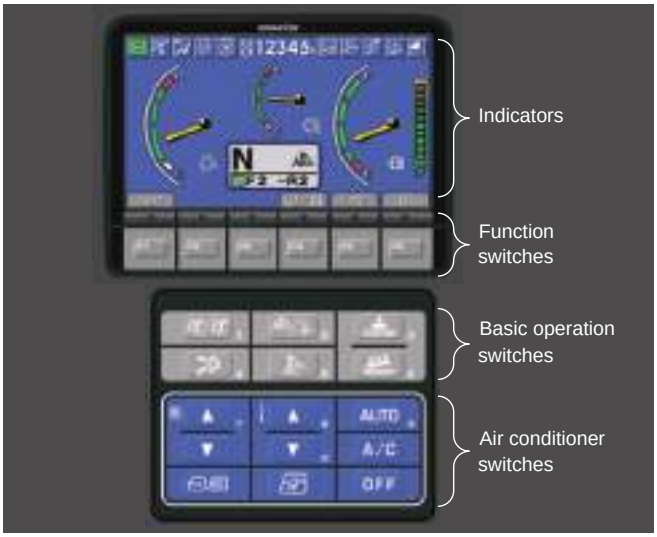
New integrated ROPS cab

A newly designed cab is integrated with ROPS. High rigidity and superb sealing performance sharply reduces noise and vibration for the operator and prevents dust from entering the cab. The result is relaxed operation in a comfortable environment for the operator. Side visibility of the D155AX-6 is unsurpassed because external ROPS structure and posts are not required.

Large multi-lingual LCD color monitor

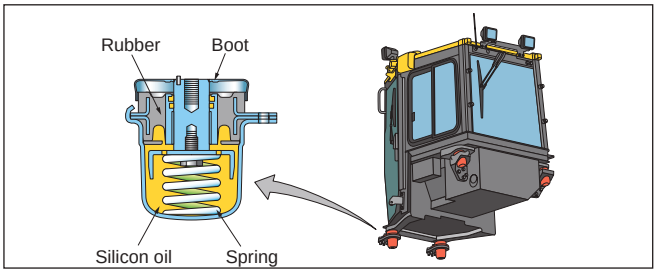
A large user-friendly color monitor enables safe, accurate and precise work. Improved screen visibility is achieved by use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. The monitoring system also features simple and easy to operate switches, and the function keys facilitate multi-function operations.

The monitor system has the ability to display data in 10 languages to globally support operators around the world.



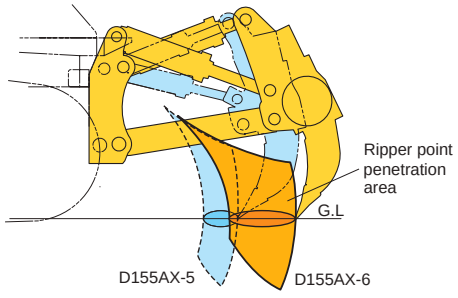
Comfortable ride with cab damper mounting

The D155AX-6's cab mount uses a cab damper that provides excellent shock and vibration absorption capacity. The cab damper mounts also soften shocks and vibration while traveling over adverse conditions that 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.



Ripper visibility

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



MAINTENANCE FEATURES

Preventative maintenance

Preventative maintenance is the only way to ensure long service life from your equipment. That's why Komatsu designed the D155AX-6 with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Multi-monitor with troubleshooting function to prevent critical machine trouble

Meters, gauges, and warning functions are centrally arranged on the multi-monitor. These offer ease of start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities occur. In addition, error codes are indicated in 4 stage codes to ensure safety and prevent the machine from major problems. Replacement times for oil and filters are also indicated.

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, or the fan can be programed to automatically reverse at set intervals.

Oil pressure checking ports

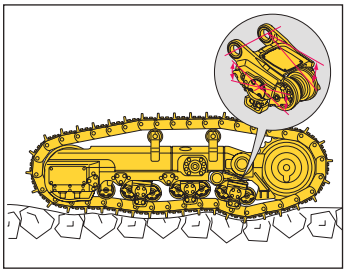
Pressure check ports for power train components are centralized to promote quick and simple diagnosis.

Gull-wing engine side covers

The engine area is easily accessed with gull-wing engine side covers. The gull-wing doors ease engine maintenance and filter replacement. Side covers have been changed to a thick one-piece structure with a bolt-on catch to improve durability.

Low maintenance costs

Increased undercarriage component life



K-Bogie track rollers having a large oscillation travel always follow the track link even on uneven ground. This feature keeps the correct alignment between the rollers and links to contribute to long undercarriage component life.

Reliable simple hull frame

Simple hull structure main frame design increases durability and reduces stress concentration at critical areas. The track frame has a large cross section and utilizes pivot shaft mounting for greater reliability.

Sealed DT connectors

Main harnesses and controller connectors are equipped with sealed DT connectors provide high resistance to water and dust entry and excellent reliability.

Flat face O-ring seals

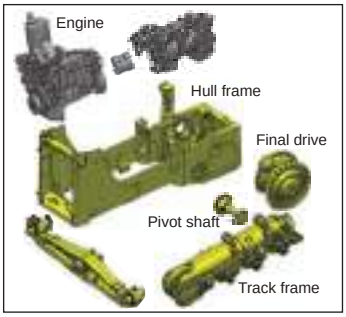
Flat face O-ring seals are used to securely seal all hydraulic hose connections and to prevent oil leakage.

Enclosed hydraulic piping

Hydraulic piping for the blade tilt cylinder is completely housed in the push arm, protecting it from damage.

Modular power train design

Power train components are sealed in a modular design that allows the components to be removed and installed without oil spillage, making servicing work clean, smooth and easy.



Maintenance free disc brakes

Wet disc brakes require less maintenance.

SPECIFICATIONS

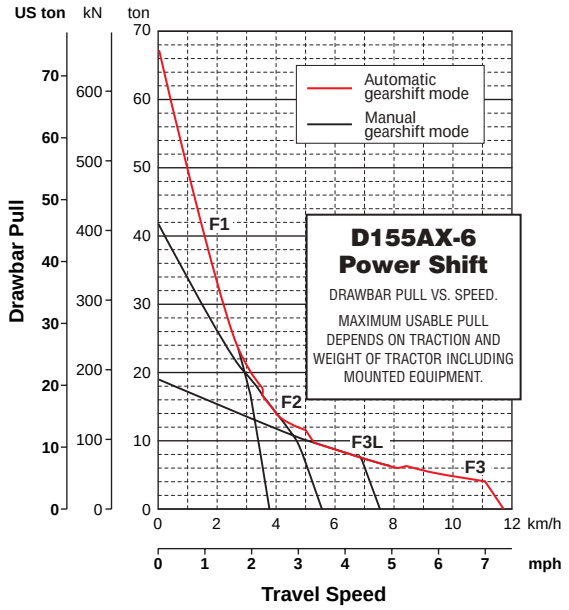
ENGINE

Model . . . . . Komatsu SAA6D140E-5
Type . . . . . 4-cycle, water-cooled, direct injection
Aspiration . . . . . 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 in³**
Governor . . . . . All-speed and mid-range, electronic
Horsepower
  SAE J1995 . . . . . Gross 268 kW **360 HP**
  ISO 9249 / SAE J1349 . . . . . Net 264 kW **354 HP**
  Hydraulic fan at maximum speed . . . . . Net 239 kW **320 HP**
  Rated rpm . . . . . 1900 rpm
Fan drive type . . . . . Hydraulic
Lubrication system
  Method . . . . . Gear pump, force lubrication
  Filter . . . . . Full-flow

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. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

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



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 on 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) . . . . . 560 mm **22"**/710 mm **28"**
Ground contact area . . . . . 36680 cm² **5,685 in²**
Ground pressure (tractor only) . . . . . 82.4 kPa 0.84 kg/cm² **11.9 psi**
Number of track rollers (each side) 7
Number of carrier rollers (each side) 2

COOLANT AND LUBRICANT CAPACITY (REFILL)

Fuel tank	625 ltr	**165 U.S. gal**
Coolant	82 ltr	**21.7 U.S. gal**
Engine oil	37 ltr	**9.8 U.S. gal**
Damper	1.5 ltr	**0.4 U.S. gal**
Transmission, bevel gear and steering system	90 ltr	**23.8 U.S. gal**
Final drive (each side)	31 ltr	**8.2 U.S. gal**

OPERATING WEIGHT

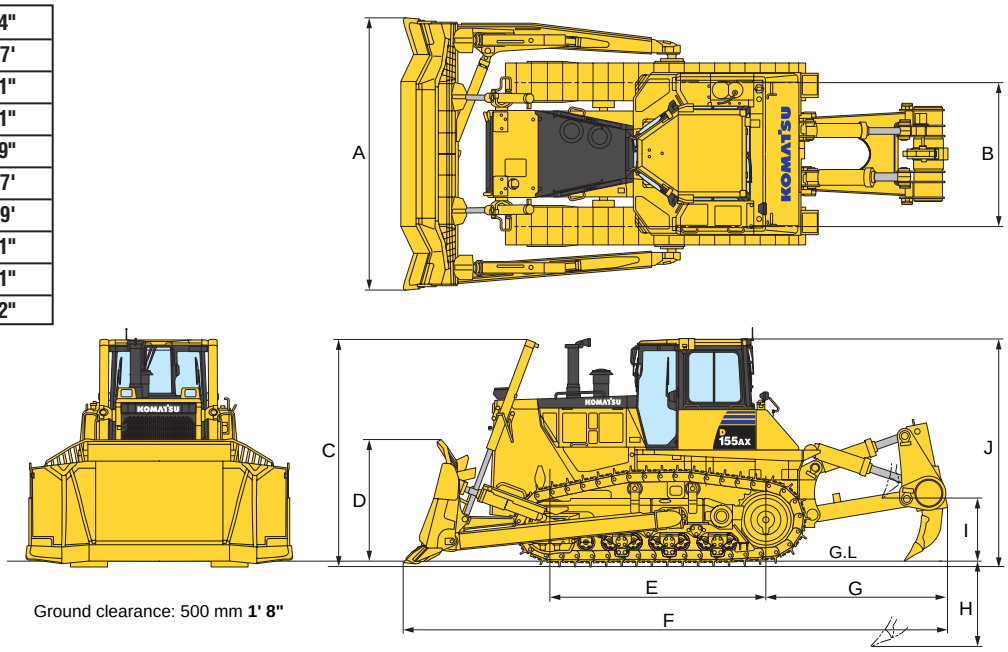
Tractor weight . . . . . 31000 kg **68,350 lb**
  Including rated capacity of lubricant, coolant, full fuel tank, operator and standard equipment

Operating weight . . . . . 39500 kg **87,100 lb**
  Including strengthened SIGMADOZER, giant ripper, ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

  Ground pressure . . . . . 106 kPa 1.08 kg/cm² **15.4 psi**

DIMENSIONS

A	4060 mm	**13'4"**
B	2140 mm	**7'**
C	3385 mm	**11'1"**
D	1850 mm	**6'1"**
E	3275 mm	**10'9"**
F	8225 mm	**27'**
G	2745 mm	**9'**
H	1240 mm	**4'1"**
I	950 mm	**3'1"**
J	3395 mm	**11'2"**



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 ltr/min **85.9 U.S. gal/min** for steering and 180 ltr/min **47.6 U.S. gal/min** for implemented at rated engine rpm.

Relief valve setting. . . for implement 27.5 MPa 280 kg/cm^2 **3,980 psi**
. . . . for steering 38.2 MPa 390 kg/cm^2 **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

Additional control valve required 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
Blade Lift	2	110 mm **4.33"**
Blade Tilt	2	160 mm **6.30"**
Ripper Lift	1	180 mm **7.09"**
Ripper Tilt	1	200 mm **7.87"**

Hydraulic oil capacity (refill):
Semi-U tilt dozer . . . . . 85 ltr **22.5 U.S. gal**
U-tilt dozer . . . . . 85 ltr **22.5 U.S. gal**
Ripper equipment (additional volume):
Multi-shank ripper . . . . . 37 ltr **9.8 U.S. gal**
Giant ripper . . . . . 37 ltr **9.8 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
Strengthened SIGMADOZER	6125 mm **20'1"**	9.4 m^3 **12.3 yd^3**	4060 mm x 1850 mm **13'4" x 6'1"**	1320 mm **4'4"**	617 mm **2'**	920 mm **3'**	5360 kg **11,820 lb**
Semi-U Tilt Dozer	6175 mm **20'3"**	9.4 m^3 **12.3 yd^3**	4130 mm x 1790 mm **13'7" x 5'10"**	1255 mm **4'1"**	593 mm **1'11"**	953 mm **3'**	4960 kg **10,936 lb**
Full-U Tilt Dozer	6590 mm **21'7"**	11.9 m^3 **15.6 yd^3**	4225 mm x 1790 mm **13'10" x 5'10"**	1255 mm **4'1"**	593 mm **1'11"**	970 mm **3'2"**	5630 kg **12,420 lb**

STANDARD EQUIPMENT FOR BASE MACHINE

- 12 volt accessory outlet
- Air cleaner, double element with dust indicator
- Air conditioner, heater, defroster, pressurizer
- Alternator, 75 ampere
- Batteries, 2 x 12V 200 Ah
- Blade lift cylinders
- Backup alarm
- Color monitor, LCD
- Coolant corrosion resistor
- Cup holder
- Decelerator pedal
- Electrical harnesses with sealed connectors
- Engine gull-wing side doors
- Engine speed control electronic dial
- Engine precleaner, with above the hood air intake pipe
- Fan, reversible, programable electronic control, hydraulic driven
- Fast fuel provision
- Filler cap locks and cover locks
- Fuel water separator
- Headrest
- Horn, warning
- Hydraulics for dozer, dual pitch and tilt
- Hydraulics for ripper, VGR/MSR
- Hydrostatic steering (HSS) system
- K-bogie undercarriage
- KOMTRAX
- Lighting system (includes 2 front, 1 rear)
- Muffler with rain cap
- Lunch box holder
- Palm command control system (PCCS)
- PM service connectors
- Radiator with reserve tank
- Radiator guard door, hinged, perforated
- Rear cover
- Rear view mirror

ROPS cab

- Additional weight: **700 kg** 1,545 lb
- All-weather, enclosed pressurized cab
- Dimensions:
  —Length: **1735 mm** 5'8"
  —Width: **1755 mm** 5'9"
  —Height from floor: **1635 mm** 5'4"
- Meets ISO 3471, SAE J1040 APR88 ROPS standards, and ISO 3449 FOPS standard.
- Seat, suspension type, high back, fabric, turn
- Seat belt, 76 mm **3"**
- Shoes, 610 mm **24"** extreme service
- Starting motor, 11kW/24V
- Sun visor
- Tool kit
- Torque convertor with auto lock-up
- Track roller guard, end sections
- Track shoe assembly
  – Sealed and lubricated track
- Transmission with automatic/manual gearshift modes
- Underguards, hinged with front pull hook

OPTIONAL EQUIPMENT

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.

Shoes

Shoes (optional)	Additional weight		Ground contact area	
560 mm **22"** single-grouser shoes	0 kg	**0 lb**	36680 cm²	**5,685 in²**
610 mm **24"** single-grouser shoes	+200 kg	**+440 lb**	39955 cm²	**6,193 in²**
660 mm **26"** single-grouser shoes	+410 kg	**+905 lb**	43230 cm²	**6,700 in²**
710 mm **28"** single-grouser shoes	+620 kg	**+1,370 lb**	46505 cm²	**7,208 in²**
560 mm **22"** extreme service shoes	+460 kg	**1,015 lb**	36680 cm²	**5,685 in²**
610 mm **24"** extreme service shoes	+700 kg	**+1,545 lb**	39955 cm²	**6,193 in²**
660 mm **26"** extreme service shoes	+940 kg	**+2,070 lb**	43230 cm²	**6,700 in²**

Other

- Additional cab lights, 2 front and 2 rear
- Additional rear light for ripper point
- Alternator, 90 ampere
- Counterweight with rigid drawbar
- Drawbar, long type
- Landfill package
- Radio, AM/FM with cassette
- Seat, air suspension type, high back, fabric
- Seat, suspension type, fabric, turn
- Woodchip package
- Working light for ripper

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