

KOMATSU®

D155AX-7 Tier 4 Interim Engine

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NET HORSEPOWER

354 HP @ 1900rpm
264 kW @ 1900rpm

OPERATING WEIGHT

87,100 lb
39500 kg

BLADE CAPACITY

SIGMADOZER
12.3 yd³ 9.4 m³

Full-U Dozer
15.6 yd³ 11.9 m³



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

SPECIFICATIONS

D155AX-7



ENGINE

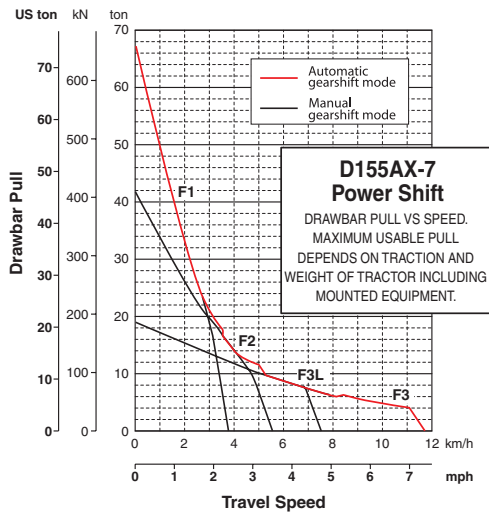
Model.....Komatsu SAA6D140E-6*
 Type..... 4-cycle, water-cooled, direct injection
 Aspiration.....Komatsu variable geometry turbocharged, air-to-air aftercooled, cooled EGR
 Number of cylinders..... 6
 Bore x stroke..... 140 mm x 165 mm **5.51" x 6.50"**
 Piston displacement..... 15.24 ltr **930 in³**
 Governor.....All-speed and mid-range, electronic
 Horsepower
 SAE J1995..... Gross 268 kW **360 HP**
 ISO 9249 / SAE J1349..... Net 264 kW **354 HP**
 Rated rpm..... 1900 rpm
 Fan drive type.....Hydraulic
 Lubrication system
 Method..... Gear pump, force lubrication
 Filter..... Full-flow
 *EPA Tier 4 Interim and EU stage 3B emissions certified



TORQFLOW TRANSMISSION

Komatsu's automatic TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 2-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 start switch.

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

Palm Command Control 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
 Rollers and idlers..... Lubricated

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)..... 610 mm **24"/710 mm 28"**
 Ground contact area.....39955 cm² **6,193 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



SERVICE REFILL CAPACITIES

Fuel tank..... 625 ltr **165 U.S. gal**
 Coolant..... 103.5 ltr **27.3 U.S. gal**
 Engine oil..... 37 ltr **9.8 U.S. gal**
 Damper..... 1.5 ltr **0.4 U.S. gal**
 Hydraulic oil..... 91.5 ltr **24.2 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..... 31700 kg **69,887 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**

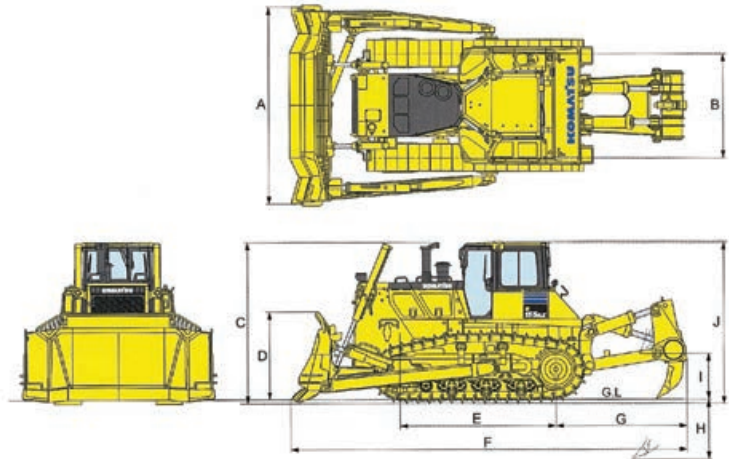


DIMENSIONS

A	4060 mm	13'4"	F	8310 mm	27'2"
B	2140 mm	7'0"	G	2745 mm	9'0"
C	3385 mm	11'1"	H	1240 mm	4'1"
D	1880 mm	6'2"	I	950 mm	3'1"
E	3275 mm	10'9"	J	3395 mm	11'2"

Cab Dimensions:

Length	1735 mm	5'8"
Width	1755 mm	5'9"
Height from floor	1635 mm	5'4"



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 dozer and Full-U 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 (Dual tilt)	2	160 mm 6.30"
Blade tilt (Single tilt)	1	160 mm 6.30"
Ripper lift	1	180 mm 7.09"
Ripper tilt	1	200 mm 7.87"

Hydraulic oil capacity (refill):

SIGMADOZER	85 ltr	22.5 U.S. gal
Semi-U dozer	85 ltr	22.5 U.S. gal
Full-U 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	Max. Lift Above Ground	Max. Drop Below Ground	Max. Tilt Adjustment	Additional Weight
Strengthened SIGMADOZER®*	6205 mm 20'4"	9.4 m ³ 12.3 yd³	4060 mm x 1880 mm 13'4" x 6'2"	1340 mm 4'5"	730 mm 2'5"	920 mm 3'0"	5360 kg 11,820 lb
Full-U Dozer*	6695 mm 22'0"	11.9 m ³ 15.6 yd³	4260 mm x 1790 mm 14'0" x 5'10"	1345 mm 4'5"	630 mm 2'1"	970 mm 3'2"	5630 kg 12,420 lb
Semi-U Dozer*	6270 mm 20'7"	9.4 m ³ 12.3 yd³	4130 mm x 1790 mm 13'7" x 5'10"	1345 mm 4'5"	630 mm 2'1"	953 mm 3'0"	4960 kg 10,936 lb

* Dual tilt dozer