

# SPECIFICATIONS



## ENGINE

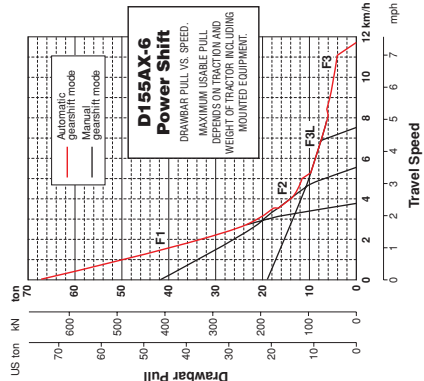
Model . . . . . Komatsu SAA6D140E-5  
Type . . . . . 4-cycle, water-cooled, direct injection  
Aspiration . . . . . Turbocharged, air-to-air aftercooled, cooled ECR  
Number of cylinders . . . . . 6  
Bore x stroke . . . . . 140 mm x 165 mm 5.51" x 6.50"  
Piston displacement . . . . . 15.24 ltr 930 in<sup>3</sup>  
Governor . . . . . All-speed and mid-range, electronic  
Horsepower  
SAE J1995 . . . . . Gross 268kW 360HP  
ISO 9249 / SAE J1349\* . . . . . Net 264kW 354HP  
Rated rpm . . . . . 1900rpm  
Fan drive type . . . . . Hydraulic  
Lubrication system  
Method . . . . . Gear pump, force lubrication  
Filter . . . . . Full-flow  
\*Net horsepower at the maximum speed of radiator cooling fan . . . . . 239kW 320HP



## 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 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 22.7/10 mm 28"  
Shoe contact area . . . . . 36660 cm<sup>2</sup> 5,685 in<sup>2</sup>  
Ground pressure (tractor only) . . . . . 82.4 kPa 0.84 kg/cm<sup>2</sup> 1.19 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

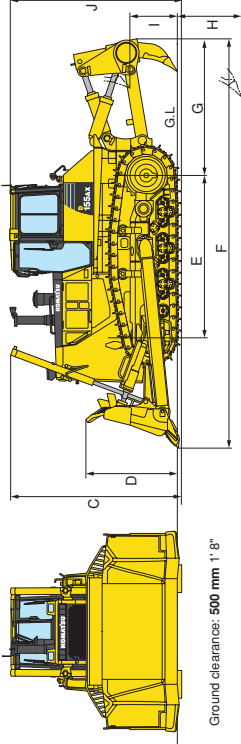
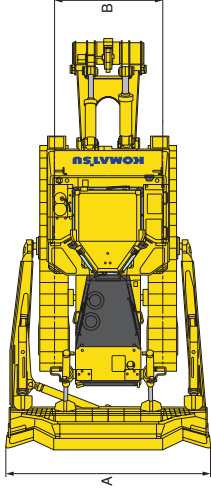


## OPERATING WEIGHT

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 . . . . . 1.06 kPa 1.08 kg/cm<sup>2</sup> 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 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  
 . . . . . Right, hold, and left  
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	1	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
SIGMADOZER	6125 mm 20'1"	9.4 m <sup>3</sup> 12.3 yd <sup>3</sup>	4060 mm x 1850 mm 13'4" x 6'1"	1320 mm 4'4"	617 mm 2'	920 mm 3'	4940 kg 10,890 lb
Strengthened SIGMADOZER	6125 mm 20'1"	9.4 m <sup>3</sup> 12.3 yd <sup>3</sup>	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 <sup>3</sup> 12.3 yd <sup>3</sup>	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 <sup>3</sup> 15.6 yd <sup>3</sup>	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
Angle Dozer	6743 mm 22'1"	4.6 m <sup>3</sup> 6.0 yd <sup>3</sup>	4850 mm x 1205 mm 15'11" x 3'11"	1562 mm 5'1"	664 mm 2'2"	520 mm 1'8"	5170 kg 11,400 lb