

KOMATSU®

D475A-5E0

HORSEPOWER

Gross: 671 kW 899 HP @ 2000 rpm

Net: 664 kW 890 HP @ 2000 rpm

OPERATING WEIGHT

108390 kg 238,960 lb

D
475A

CRAWLER DOZER



Photo may include optional equipment.

D475A-5E0 CRAWLER DOZER

SPECIFICATIONS



ENGINE

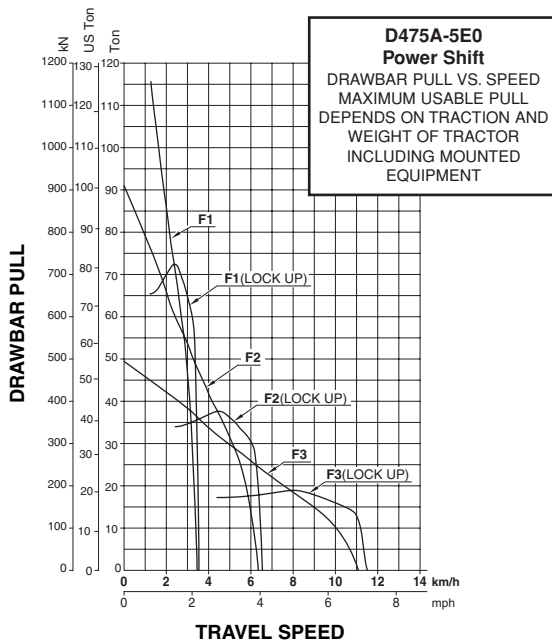
Model Komatsu SAA12V140E-3
 Type 4-cycle, water-cooled, direct injection
 Aspiration Turbocharged, air-to-air aftercooled
 Number of cylinders 12
 Bore x stroke 140 mm x 165 mm 5.51" x 6.50"
 Piston displacement 30.48 ltr 1,860 in³
 Governor All-speed, electronic
 Horsepower
 SAE J1995 Gross **671kW** 899 HP
 ISO 9249/SAE J 1349* Net **664kW** 890 HP
 Rated rpm 2000rpm
 Fan drive type Hydraulic
 Lubrication system
 Method Gear pump, force lubrication
 Filter Full-flow and bypass combined
 *Net horsepower at the maximum speed of
 radiator cooling fan **641 kW** 860HP
 EPA Tier 2 emission certified.



TORQFLOW TRANSMISSION

Komatsu 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 accidental starts.

Gear	Forward		Reverse	
	km/h	mph	km/h	mph
1st	3.3	2.1	4.2	2.6
2nd	6.2	3.9	8.0	5.0
3rd	11.2	7.0	14.0	8.7



FINAL DRIVES

Double-reduction final drive of spur and planetary gear sets to increase tractive effort and reduce gear tooth stresses for long final drive life. Segmented sprocket teeth are bolt-on for easy replacement.



STEERING SYSTEM

PCGS lever, joystick-controlled, wet multiple-disc steering clutches are spring-loaded and hydraulically released. Wet multiple-disc steering brakes are spring-actuated, hydraulically released, and require no adjustment. Steering clutches and brakes are interconnected for easy, responsive steering.

Minimum turning radius **4.6 m** 15'1"



UNDERCARRIAGE

Suspension Oscillating equalizer bar and pivot shaft
 Track roller frame Cylindrical, high-tensile-strength steel construction

Rollers and idlers Lubricated track rollers

K-Bogie Undercarriage

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

Extreme Service Track Shoes

Lubricated tracks. Unique seals prevent entry of foreign abrasives into pin to bushing clearances to provide extended service life. Track tension is easily adjusted with grease gun.

Number of shoes (each side) 41

Grouser height:

Single grouser **105 mm** 4.1"

Shoe width (standard) **710 mm** 28"

Ground contact area **64240 cm²** 9,957 in²

Ground pressure (Tractor) **128 kPa** 1.30 kg/cm² 18.5 psi

Number of track rollers 8

Number of carrier rollers 2

Extreme service shoes	Additional weight	Ground contact area	Tractor ground pressure
810 mm 32"	920 kg 2,030 lb	73290 cm² 11,360 in ²	113 kPa 1.15 kg/cm ² 16.4 psi
910 mm 36"	1830 kg 4,030 lb	82340 cm² 12,762 in ²	102 kPa 1.04 kg/cm ² 14.8 psi



COOLANT AND LUBRICANT CAPACITY (REFILL)

Fuel tank **1670 ltr** 441 U.S. gal

Coolant **210 ltr** 55.5 U.S. gal

Engine **121 ltr** 32.0 U.S. gal

Torque converter, transmission,

bevel gear, and steering system **210 ltr** 55.5 U.S. gal

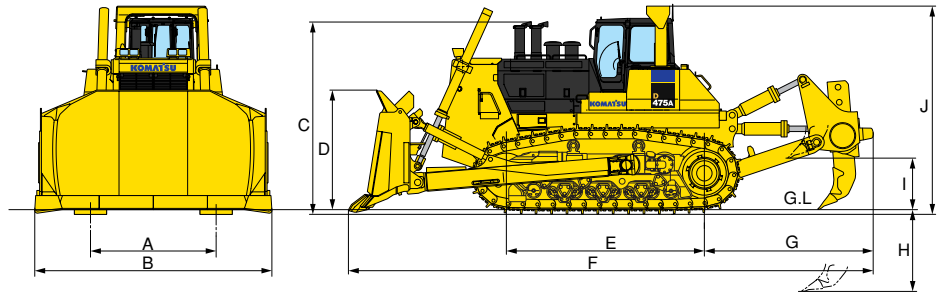
Final drive (each side) **75 ltr** 19.8 U.S. gal



DIMENSIONS

SEMI-U DOZER WITH GIANT RIPPER

A	2770 mm	9'1"
B	5265 mm	17'3"
C	4546 mm	14'11"
D	2690 mm	8'10"
E	4524 mm	14'10"
F	11565 mm	37'11"
G	3720 mm	12'2"
H	1744 mm	5'9"
I	1196 mm	3'11"
J	4646 mm	15'3"



Ground Clearance: 655 mm 2'2"



OPERATING WEIGHT

Tractor weight **83590 kg** 184,290 lb
Including steel cab, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.

Operating weight **108390 kg** 238,960 lb
Including strengthened Semi-U tilt dozer, giant ripper, steel cab, ROPS, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

Ground pressure **166 kPa** 1.69 kg/cm² 24.0 psi



HYDRAULIC SYSTEM

Closed-center load sensing system (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic cylinders Double-acting, piston

Hydraulic control units:
All spool valves externally mounted beside the hydraulic tank.
Plunger type hydraulic pump with capacity (discharge flow) of **542 ltr/min** 143 U.S. gal/min at rated engine rpm.

	Number of cylinders	Bore
Blade lift	2	180 mm 7.09"
Blade tilt	1	250 mm 9.84"
Ripper lift	2	225 mm 8.86"
Ripper tilt	2	225 mm 8.86"

Relief valve setting **27.5 MPa** 280 kg/cm² 3,980 psi

Hydraulic oil capacity (additional volume):
Semi-U tilt dozer **180 ltr** 48 U.S. gal
U tilt dozer **180 ltr** 48 U.S. gal
Ripper equipment (additional volume):
Giant ripper **130 ltr** 34 U.S. gal
Multi-shank ripper **130 ltr** 34 U.S. gal

Control valves:
Spool control valves for 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 valves for variable digging angle multi-shank ripper and giant ripper.
Positions: Ripper lift Raise, hold, and lower
Ripper tilt Increase, hold, and decrease



DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265.

	Overall length with dozer	Blade capacity	Blade length x height	Maximum lift above ground	Maximum drop below ground	Maximum tilt adjustment	Weight	Ground pressure*
							Dozer equipment	
Semi-U dozer	8705 mm 28'7"	27.2 m ³ 35.6 yd ³	5265 mm x 2690 mm 17'3" x 8'10"	1620 mm 5'4"	1010 mm 3'4"	770 mm 2'6"	16500 kg 36,376 lb	166 kPa 1.69 kg/cm ² 24.0 psi
U dozer	9205 mm 30'2"	34.4 m ³ 45.0 yd ³	6205 mm x 2610 mm 20'4" x 8'7"	1620 mm 5'4"	1010 mm 3'4"	905 mm 3'	18800 kg 41,446 lb	169 kPa 1.72 kg/cm ² 24.5 psi
Dual tilt Semi-U dozer	8705 mm 28'7"	27.2 m ³ 35.6 yd ³	5265 mm x 2690 mm 17'3" x 8'10"	1620 mm 5'4"	1010 mm 3'4"	1145 mm 3'9"	16950 kg 37,368 lb	166 kPa 1.69 kg/cm ² 24.0 psi
Dual tilt U dozer	9205 mm 30'2"	34.4 m ³ 45.0 yd ³	6205 mm x 2610 mm 20'4" x 8'7"	1620 mm 5'4"	1010 mm 3'4"	1350 mm 4'5"	19250 kg 42,439 lb	170 kPa 1.73 kg/cm ² 24.3 psi

*Ground pressure shows tractor, cab, ROPS, operator, giant ripper, standard equipment, and applicable blade.