

SPECIFICATIONS



ENGINE

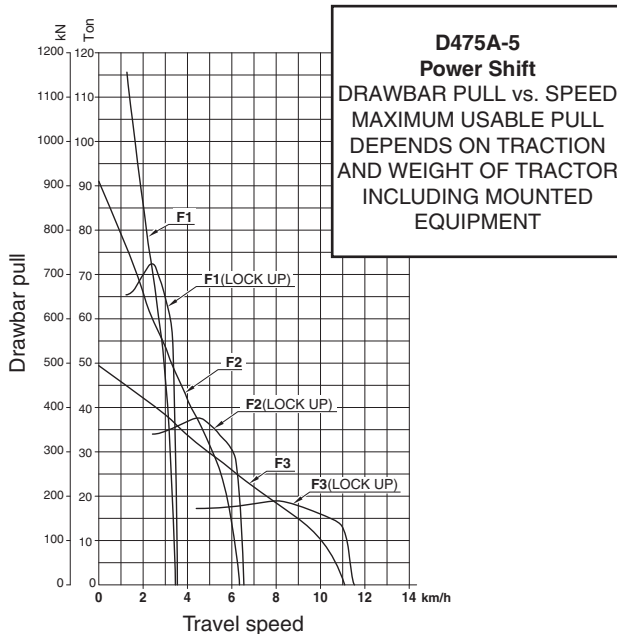
ModelKomatsu SAA12V140E-3
 Type Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
 Engine power
 at rated engine speed 2.000 rpm
 ISO 14396 671 kW / 900 HP
 ISO 9249 (net engine power) 664 kW / 890 HP
 No. of cylinders 12
 Bore x stroke 140 x 165 mm
 Displacement 30,48 ltr
 GovernorAll-speed, electronic
 Lubrication system
 Method Gear pump, force lubrication
 Filter Full flow and bypass combined



TORQFLOW TRANSMISSION

Type Komatsu TORQFLOW
 Torque converter 3-element, 1-stage, 1-phase, water-cooled with lock-up clutch
 Transmission Planetary gear, multiple-disc clutch hydraulically actuated, force-lubricated
 Gearshift lock lever and neutral safety switch prevent accidental starts.

Max. travel speeds	Forward	Reverse
1st	3,3 km/h	4,2 km/h
2nd	6,2 km/h	8,0 km/h
3rd	11,2 km/h	14,0 km/h



FINAL DRIVE

Type Spur gear, single-reduction and planetary gear, single-reduction
 Sprocket Segmented sprocket teeth are bolt-on for easy replacement



STEERING SYSTEM

Type Clutch and brake steering system
 Steering control PCCS-lever
 Steering brakes Wet, multiple-disc, pedal-/hand controlled, spring-actuated and hydraulically released
 Interconnected with steering clutch
 Steering clutch .. Wet multiple-disc clutch. Spring loaded, hydraulically released, hand operated, interconnected with steering brake
 Service brakes Steering brakes function as service brake, pedal-controlled
 Minimum turning radius (counter-rotation)
 (as measured by track marks on ground) 4,6 m



UNDERCARRIAGE

Suspension Oscillating equaliser bar and pivot shaft
 Track roller frame Monocoque, large section, durable construction
 Rollers and idlers Lubricated track rollers
 K-Bogie undercarriage Lubricated track rollers are resiliently mounted on the track frame with a bogie suspension system with oscillating motion that is cushioned by rubber pads.
 Tracks Lubricated tracks, fully sealed
 Track tension Combined spring and hydraulic unit
 Number of shoes (each side) 41
 Grouser height (single grouser) 105 mm
 Shoe width (standard) 710 mm
 Ground contact area 64.240 cm²
 Track rollers (each side) 8
 Carrier rollers (each side) 2

Extreme service shoes	Additional weight	Ground contact area
810 mm	920 kg	73.290 cm ²
910 mm	1.830 kg	82.340 cm ²



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 1.670 ltr
 Radiator 210 ltr
 Engine oil 121 ltr
 Torque converter, transmission, bevel gear and steering system 210 ltr
 Final drive (each side) 75 ltr
 Dozer blade hydraulics 180 ltr
 Giant ripper (additional capacity) 130 ltr
 Multishank ripper (additional capacity) 130 ltr



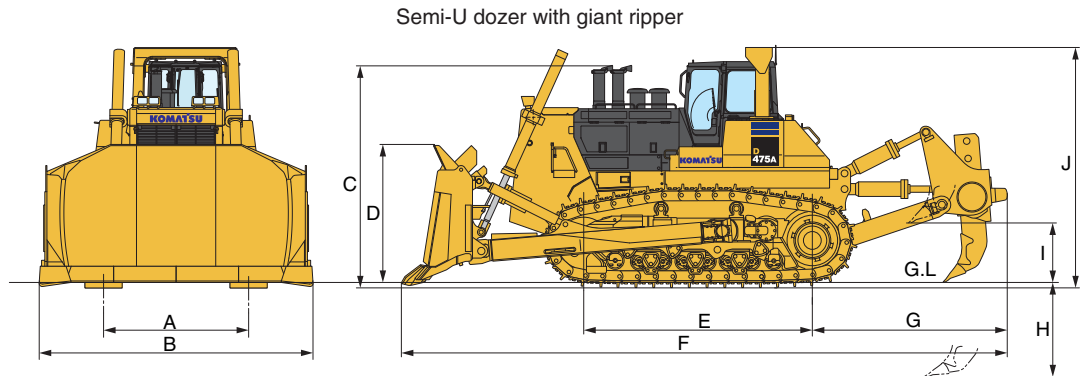
ENVIRONMENT

Engine emissions Fully complies with EPA Tier II exhaust emission regulations
 Noise levels
 LpA operator ear 74 dB(A) (ISO 6396 dynamic test)
 Vibration levels (EN 12096:1997)*
 Hand/arm ≤ 2,5 m/s² (uncertainty K = 0,82 m/s²)
 Body ≤ 0,5 m/s² (uncertainty K = 0,29 m/s²)
 * for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.



DIMENSIONS

	D475A-5
A	2.770 mm
B	5.265 mm
C	4.546 mm
D	2.690 mm
E	4.524 mm
F	11.565 mm
G	3.720 mm
H	1.744 mm
I	1.196 mm
J	4.646 mm



Ground clearance: 655 mm



OPERATING WEIGHT (APPR.)

Including strengthened semi-U tilt dozer, giant ripper, steel cab, ROPS, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank, 710 mm shoes.

Operating weight 108.390 kg



HYDRAULIC SYSTEM

- Type CLSS (closed-centre load sensing system)
- All spool valves externally mounted beside the hydraulic tank.
- Main pump Variable displacement piston pump
- Maximum pump flow 542 ltr/min
- Relief valve setting 280 kg/cm²
- Spool control valve positions semi-U tilt dozer and full-U tilt dozer
 - Blade lift Raise, hold, lower, and float
 - Blade tilt Right, hold, and left
- Additional control valve positions for rippers
 - Ripper lift Raise, hold, and lower
 - Ripper tilt Increase, hold, and decrease
- Hydraulic cylinders Double-acting, piston
- No. of cylinders x bore
 - Blade lift 2 x 180 mm
 - Blade tilt 1 x 250 mm
 - Ripper lift 2 x 225 mm
 - Ripper tilt 2 x 225 mm



RIPPER EQUIPMENT

- Multishank ripper
 - Type Hydraulically controlled variable ripper
 - No. of shanks 3
 - Weight (including hydraulic control unit) 9.720 kg
 - Beam length 3.085 mm
 - Maximum lift above ground 1.196 mm
 - Maximum digging depth 1.124 mm
- Giant ripper
 - Type Hydraulically controlled variable ripper
 - Ripping depth is adjustable in three stages by a hydraulically controlled pin puller
 - No. of shanks 1
 - Weight (including hydraulic control unit) 7.360 kg
 - Beam length 1.477 mm
 - Maximum lift above ground 1.196 mm
 - Maximum digging depth 1.744 mm



DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265.

	Overall length with dozer	Blade capacity	Blade width x height	Maximum lift above ground	Maximum drop below ground	Maximum tilt adjustment	Additional weight
Strengthened single tilt semi-U blade	8.705 mm	27,2 m ³	5.265 x 2.690 mm	1.620 mm	1.010 mm	770 mm	16.500 kg
Strengthened single tilt U blade	9.205 mm	34,4 m ³	6.205 x 2.610 mm	1.620 mm	1.010 mm	905 mm	18.800 kg
Strengthened dual tilt semi-U blade	8.705 mm	27,2 m ³	5.265 x 2.690 mm	1.620 mm	1.010 mm	1.145 mm	16.950 kg
Strengthened dual tilt U blade	9.205 mm	34,4 m ³	6.205 x 2.610 mm	1.620 mm	1.010 mm	1.350 mm	19.250 kg