

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D140E-5
 Type Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel

Engine power
 at rated engine speed 2.000 rpm
 ISO 14396 337 kW / 452 HP
 ISO 9249 (net engine power) 335 kW / 449 HP

No. of cylinders 6
 Bore x stroke 140 x 165 mm
 Displacement 15,24 ltr
 Governor All-speed, electronic

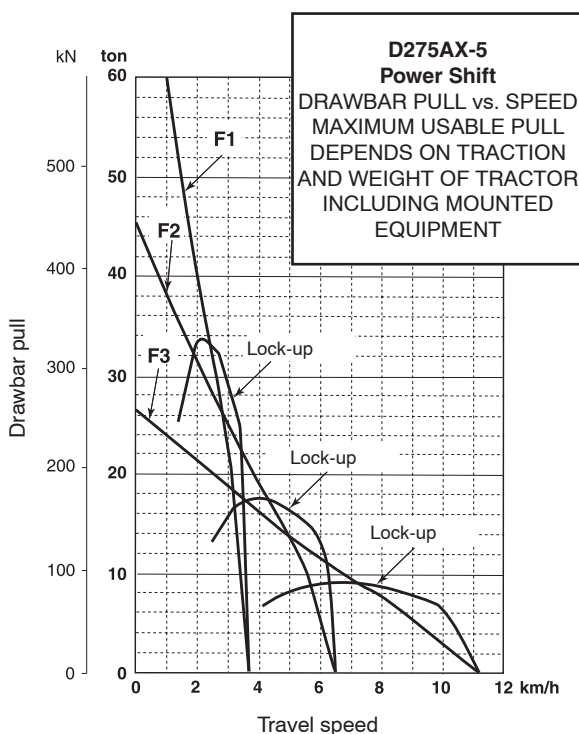
Lubrication system
 Method Gear pump, force lubrication
 Filter Full flow and bypass combined



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	3,6 km/h	4,7 km/h
2nd	6,7 km/h	8,7 km/h
3rd	11,2 km/h	14,9 km/h



STEERING SYSTEM

Type Hydrostatic Steering System (HSS)
 Steering control PCCS-lever
 Steering brakes Wet, multiple-disc, pedal-controlled, spring-actuated and hydraulically released
 Service brake Steering brakes function as service brake
 Minimum turning radius (counter-rotation) 3,9 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
 Tracks Lubricated tracks, fully sealed
 Track tension Combined spring and hydraulic unit
 Number of shoes (each side) 39
 Grouser height (single grouser) 88 mm
 Shoe width (standard) 610 mm
 Ground contact area 42.456 cm²
 Track rollers (each side) 7
 Carrier rollers (each side) 2

Extreme service shoes	Additional weight	Ground contact area
710 mm	570 kg	49.416 cm ²
760 mm	850 kg	52.896 cm ²



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 840 ltr
 Radiator 100 ltr
 Engine oil 52 ltr
 Torque converter, transmission, bevel gear and steering system 90 ltr
 Final drive (each side) 40 ltr
 Dozer blade hydraulics 130 ltr
 Giant ripper (additional capacity) 38 ltr
 Multishank ripper (additional capacity) 38 ltr



FINAL DRIVE

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



ENVIRONMENT

Engine emissions Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations

Noise levels
 LwA external 112 dB(A) (2000/14/EC)
 LpA operator ear 79 dB(A) (ISO 6396 dynamic test)

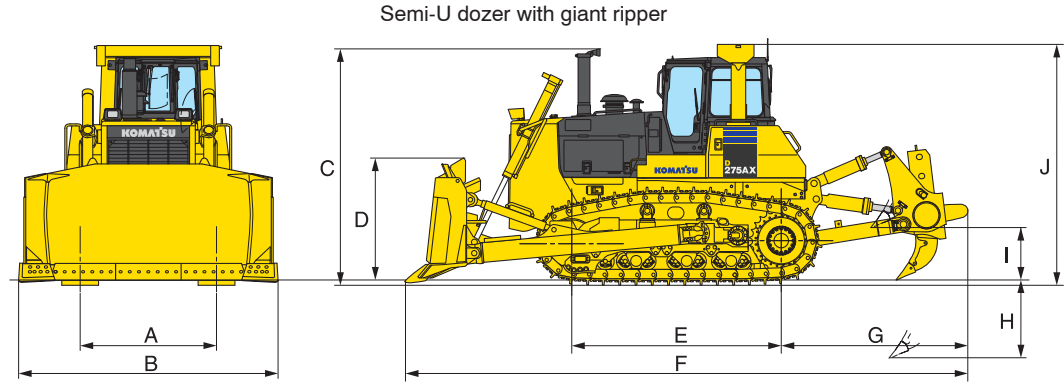
Vibration levels (EN 12096:1997)*
 Hand/arm ≤ 2,5 m/s² (uncertainty K = 1,09 m/s²)
 Body ≤ 0,5 m/s² (uncertainty K = 0,29 m/s²)

* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.



DIMENSIONS

	D275AX-5
A	2.260 mm
B	4.300 mm
C	3.965 mm
D	1.960 mm
E	3.480 mm
F	9.260 mm
G	3.030 mm
H	1.300 mm
I	870 mm
J	3.985 mm



Ground clearance: 507 mm



OPERATING WEIGHT (APPR.)

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

Operating weight 49.850 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 230 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 120 mm
 - Blade tilt (single tilt) 1 x 180 mm
 - Ripper lift 2 x 180 mm
 - Ripper tilt 2 x 160 mm



RIPPER EQUIPMENT

- Multishank ripper
 - Type Hydraulically controlled variable ripper
 - No. of shanks 3
 - Weight (including hydraulic control unit) 4.462 kg
 - Beam length 2.495 mm
 - Maximum lift above ground 955 mm
 - Maximum digging depth 900 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) 3.600 kg
 - Beam length 1.252 mm
 - Maximum lift above ground 870 mm
 - Maximum digging depth 1.300 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
Semi-U blade single tilt	6.930 mm	13,7 m ³	4.300 x 1.960 mm	1.450 mm	640 mm	1.000 mm	7.507 kg
Strengthened semi-U blade single tilt	6.930 mm	13,7 m ³	4.300 x 1.960 mm	1.450 mm	640 mm	1.000 mm	8.329 kg
Semi-U blade dual tilt	6.930 mm	13,7 m ³	4.300 x 1.960 mm	1.450 mm	640 mm	1.140 mm	7.590 kg
Strengthened semi-U blade dual tilt	6.930 mm	13,7 m ³	4.300 x 1.960 mm	1.450 mm	640 mm	1.140 mm	8.412 kg
U blade single tilt	7.265 mm	16,6 m ³	4.615 x 1.973 mm	1.450 mm	640 mm	1.070 mm	8.404 kg
Strengthened U blade single tilt	7.265 mm	16,6 m ³	4.615 x 1.973 mm	1.450 mm	640 mm	1.070 mm	9.505 kg
U blade dual tilt	7.265 mm	16,6 m ³	4.615 x 1.973 mm	1.450 mm	640 mm	1.220 mm	8.516 kg
Strengthened U blade dual tilt	7.265 mm	16,6 m ³	4.615 x 1.973 mm	1.450 mm	640 mm	1.220 mm	9.588 kg