

## ENGINE

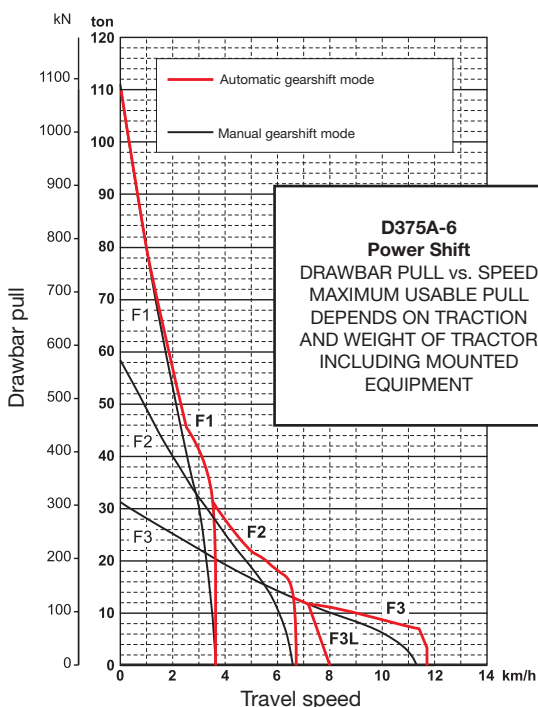
Model ..... Komatsu SAA6D170E-5  
 Type ..... Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel  
 Engine power  
 at rated engine speed ..... 1.800 rpm  
 ISO 14396 ..... 474 kW / 636 HP  
 ISO 9249 (net engine power) ..... 455 kW / 610 HP  
 No. of cylinders ..... 6  
 Bore x stroke ..... 170 x 170 mm  
 Displacement ..... 23,15 ltr  
 Governor ..... All-speed, electronic  
 Fan drive type ..... Hydraulic  
 Lubrication system  
 Method ..... Gear pump, force lubrication  
 Filter ..... Full flow

## 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	3,5 km/h	4,6 km/h
2nd	6,8 km/h	9,2 km/h
3rd L	8,0 km/h	9,7 km/h
3rd	11,8 km/h	15,8 km/h



## STEERING SYSTEM

Type ..... Clutch and brake steering system  
 Steering control ..... PCCS-lever  
 Steering brakes ..... Wet, multiple-disc, pedal-/hand controlled, spring-loaded 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) ..... 4,2 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) ..... 41  
 Grouser height (single grouser) ..... 93 mm  
 Shoe width (standard) ..... 610 mm  
 Ground contact area ..... 48.560 cm<sup>2</sup>  
 Track rollers (each side) ..... 8  
 Carrier rollers (each side) ..... 2  
 Extreme service shoes ..... 710 mm  
 Additional weight ..... 680 kg  
 Ground contact area ..... 56.520 cm<sup>2</sup>  
 Ground pressure ..... 126 kPa  
 Extreme service shoes ..... 810 mm  
 Additional weight ..... 1.360 kg  
 Ground contact area ..... 64.480 cm<sup>2</sup>  
 Ground pressure ..... 111 kPa

## SERVICE REFILL CAPACITIES

Fuel tank ..... 1.200 ltr  
 Radiator ..... 120 ltr  
 Engine oil ..... 86 ltr  
 Torque converter, transmission, bevel gear and steering system ..... 150 ltr  
 Final drive (each side) ..... 65 ltr  
 Dozer blade and ripper hydraulics ..... 138 ltr

# Specifications

## FINAL DRIVE

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

## HYDRAULIC SYSTEM

Type .....	Closed-centre load sensing system
All spool valves externally mounted beside the hydraulic tank.	
Main pump .....	Variable piston pump
Maximum pump flow .....	366 ltr/min
Relief valve setting .....	280 kg/cm <sup>2</sup>
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 × bore	
Blade lift .....	2 × 140 mm
Blade tilt .....	1 × 180 mm
Ripper lift .....	2 × 200 mm
Ripper tilt .....	2 × 180 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, 610 mm shoes.	
Operating weight .....	71.640 kg
Ground pressure .....	145 kPa

## ENVIRONMENT

Engine emissions .....	Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations
Noise levels	
LwA external .....	113 dB(A) (2000/14/EC)
LpA operator ear .....	77 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)*	
Hand/arm .....	≤ 2,5 m/s <sup>2</sup> (uncertainty K = 0,92 m/s <sup>2</sup> )
Body .....	≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,29 m/s <sup>2</sup> )
* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.	

## RIPPER EQUIPMENT

Multishank ripper	
Type .....	Hydraulically controlled variable ripper
No. of shanks .....	3
Weight (including hydraulic control unit and oil) .....	6.800 kg
Beam length .....	2.910 mm
Maximum lift above ground .....	1.135 mm
Maximum digging depth .....	1.140 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 and oil) .....	6.200 kg
Beam length .....	1.453 mm
Maximum lift above ground .....	1.100 mm
Maximum digging depth .....	1.485 mm

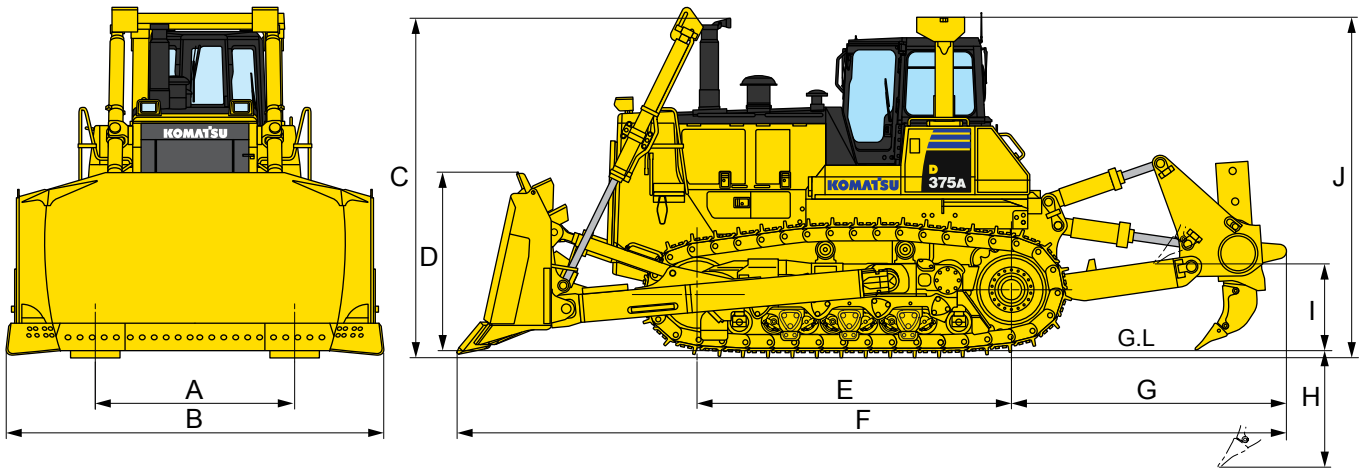
## DOZER EQUIPMENT

	Overall length with dozer	Blade capacity	Blade length × height (with spill guard height)	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Dozer equipment weight
Semi-U blade	7.780 mm	18,5 m <sup>3</sup>	4.695 mm × 2.265 mm	1.690 mm	735 mm	970 mm	10.920 kg
Semi-U blade dual tilt	7.780 mm	18,5 m <sup>3</sup>	4.695 mm × 2.265 mm	1.690 mm	735 mm	1.185 mm	11.100 kg
Strengthened semi-U blade	7.780 mm	18,5 m <sup>3</sup>	4.695 mm × 2.265 mm	1.690 mm	735 mm	970 mm	11.390 kg
Strengthened semi-U blade dual tilt	7.780 mm	18,5 m <sup>3</sup>	4.695 mm × 2.265 mm	1.690 mm	735 mm	1.185 mm	11.570 kg
Strengthened U blade with spill guard	8.140 mm	22,0 m <sup>3</sup>	5.140 mm × 2.265 mm (2.525 mm)	1.690 mm	735 mm	1.065 mm	12.420 kg
Strengthened U blade dual tilt with spill guard	8.140 mm	22,0 m <sup>3</sup>	5.140 mm × 2.265 mm (2.525 mm)	1.690 mm	735 mm	1.300 mm	12.600 kg

Blade capacities are based on the SAE recommended practice J1265.



Semi-U dozer with giant ripper



Ground clearance: 610 mm

**DIMENSIONS**

	D375A-6
A	2.500 mm
B	4.695 mm
C	4.265 mm
D	2.265 mm
E	3.980 mm
F	10.485 mm
G	3.460 mm
H	1.485 mm
I	1.100 mm
J	4.285 mm