

D7G

Track-Type Tractor



Cat® 3306 turbocharged engine

Net power	149 kW	200 hp
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Operating weight

With 7S blade	20 094 kg	44,300 lb
With 7A blade	19 660 kg	43,300 lb

Blade capacity

7S blade	4.2 m ³	5.5 yd ³
7A blade	2.9 m ³	3.8 yd ³

Engine

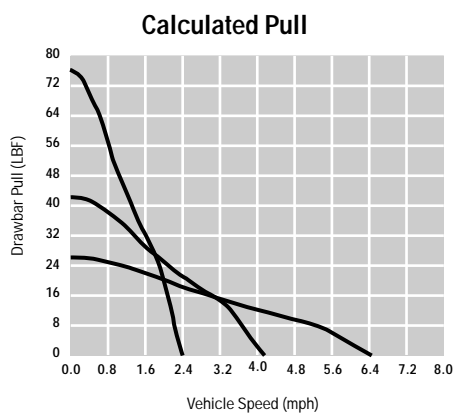
Four-stroke cycle, in-line six cylinder, 3306 turbocharged diesel engine.

Ratings at 2000*	kW	hp
Gross power	165	215
Net power	149	200

The following ratings apply at 2000 rpm when tested under the specific standard conditions for the specified standard:

Dimensions

Bore	121 mm	4.75 in
Stroke	152 mm	6.0 in
Displacement	10.5 liters	638 cu in



*Power rating conditions

- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32" Hg) dry barometer
- used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/gal)]
- net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and muffler
- no derating required up to 2300 m (7500 ft) altitude

Features

- direct-injection fuel system with individual adjustment free injection pumps and nozzles
- one-piece cylinder head with cast intake manifold
- 3-ring aluminum alloy pistons
- heat resistant sil-chrome steel intake and stellite-faced exhaust valves
- forged steel connecting rods
- cast cylinder block with replaceable wet liners
- induction-hardened, forged crankshaft
- turbocharger
- direct-electric 24-volt starting and charging system
- two 12-volt, maintenance-free batteries
- 35-amp alternator
- tube-type, water-cooled oil cooler
- vertical-flow, steel-fin, tube-type radiator
- dry-type, radial-seal air cleaner with primary and secondary elements

Transmission

Three-speed planetary power shift.

Maximum travel speeds at rated engine speed

		km/h	mph
Forward	1	3.7	2.3
	2	6.4	4.0
	3	10.0	6.2
Reverse	1	4.5	2.8
	2	7.9	4.9
	3	11.9	7.4

Features

- single-lever, U-shaped pattern shift control
- single stage torque converter with output torque divider
- four planetary gear sets
- high torque capacity, perimeter-mounted clutches

Final Drives

Crown-shaved, double reduction, spur gear final drives.

Features

- heavy-duty through-shaft
- hardened splines
- high load capacity bearings
- improved taper bearings
- Duo-Cone floating ring seals
- segmented sprocket simplifies replacement

Heavy-duty Sealed and Lubricated Track

Heavy-duty design for superior track life.

Number of shoes (each side)		38
Width of standard shoe	508 mm	20"
Length of track on ground	2720 mm	107"
Ground contact area with standard shoes	2.76 m ²	4280 in ²
Grouser height from ground face of shoe	71 mm	2.8"

Features

- hydraulic adjusters
- end guiding guards
- serrated, two-piece split master link
- single-grouser shoes
- segmented sprocket
- Sealed and Lubricated rollers and idlers

Hydraulic Controls

Protected system to keep dirt out.

Pump output at 2080 RPM and 6895 kPa (1000 psi)	227 liters/min	60 gpm
Tilt cylinder flow	91 liters/min	24 gpm
Relief valve settings		
Blade	15 513 kPa	2250 psi
Ripper	15 513 kPa	2250 psi
Tilt cylinder	16 892 kPa	2450 psi

Features

- vane-type pump
- full-flow filter
- six valve options accommodate blade and rear implement functions
- low effort hydraulic pilot controls

Control positions

- lift cylinders — raise, hold, lower, float
- tilt cylinder — left, right, hold
- ripper cylinder — raise, hold, lower

Track Roller Frames

Reinforced box-section construction.

Number of rollers (each side)	6
Oscillation at front idler	406 mm 16"

Features

- Lifetime Lubricated rollers and idlers
- outside-mounted carrier rollers
- adjustable two-position idler
- rolling contact equalizer bar

Canopy

Open Rollover Protective Structure (ROPS).

Features

- meets ROPS criteria SAE J395, SAE J1040 and ISO 3471
- meets Falling Object Protective Structure (FOPS) criteria SAE J231 and ISO 3449

Steering and Braking

Braking system meets SAE J1026.

Features

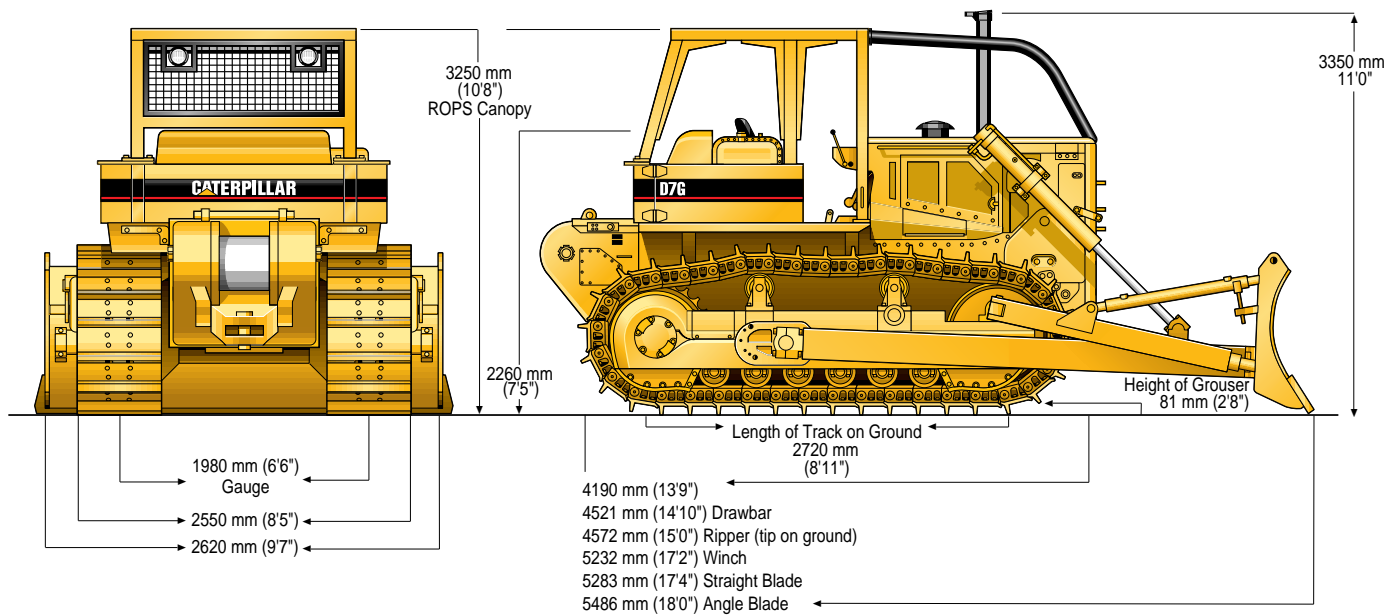
- oil-cooled, spring-actuated, hydraulically released, multiple-disc clutches
- self-energizing, double-wrapped brake bands
- two dash-mounted, steering hand levers and steering/brake pedals
- mechanically activated parking brake
- clutch and brake assemblies serviced as a unit

Service Refill Capacities

	liters	gallons
Cooling system	45.4	2.4
Crankcase and filter	27.4	7.25
Final drive (each side)	34.1	9.0
Fuel tank	435	115
Hydraulic tank	91	24
Power shift transmission, bevel gear and steering clutch compartments, torque converter	70	18.5

Dimensions

(approximate)



Blades

	7S blade		7A blade	
Capacity	4.2 m ³	5.5 yd ³	2.9 m ³	3.8 m ³
Height	1270 mm	50 in	970 mm	38 in
Width	3660 mm	144 in	4270 mm	168 in
Digging depth	447 mm	17.6 in	480 mm	18.9 in
Ground clearance	1170 mm	46 in	1190 mm	47 in
Maximum tilt	720 mm	28.4 in	300 mm	11.8 in
Weight (w/o hydraulics)	3475 kg	7660 lb	3110 kg	6850 lb
Total shipping weight (w/blade)	20 094 kg	44,300 lb	19 660 kg	43,300 lb

Features

- use 7S blade for short distance dozing
- use 7A blade for sidecasting
- bolt-on cutting edges and end bits made of DH-2 steel
- standard single-lever control to raise, lower and tilt; two-lever control optional with ripper

Weight (approximate)

Shipping, includes lubricants, coolant and 10% fuel.	15 380 kg	33,900 lb
Shipping, includes above plus ROPS canopy.	16 170 kg	35,620 lb
Operating, includes lubricants, coolant, full fuel tank, hydraulic control, 7S blade, ROPS canopy and operator.	20 600 kg	45,370 lb

Standard Equipment

Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.

Air cleaner, dry-type	Hydraulic track adjusters	Segmented sprocket
Alternator, 35-amp	Key start and stop	Steering hand levers (two)
Back up alarm	Lifetime Lubricated rollers and idlers	Steering pedals, (two)
Batteries (two), 12-volt, maintenance free	Muffler	Track:
Blower fan	Oil-cooled steering clutches and brakes	Roller frame, six-roller
Crankcase guard	Precleaner	Sealed and Lubricated, two-piece master links
Decelerator pedal	Pull hook, front	Shoes, single grouser:
Direct electric 24-volt starting	Pump, fuel priming	38-section, 508 mm (20")
Electric hour meter	Rain cap	Transmission, planetary power shift, three speeds forward, three reverse
End guiding guards	Rearview mirror	
Fuel priming pump	Retrieval hitch	
Horn	Seat, adjustable	
	Seat belt	

Optional Equipment

(With approximate change in operating weight)

	kg	lb		kg	lb
Air conditioner/heater	64	142	Ripper, includes one tooth	2590	5710
Alternator, 50-amp	5	12	Screen, rear, for use w/ROPS	36	80
Canopy, ROPS (standard in U.S.A.)	760	1675	Seat, suspension	45	100
Cases (two), final drive, steel	84	186	Seat cover, cloth	1	3
Drawbar, rigid	142	312	Starting aids:		
Engine enclosure, includes perforated hood and side panels	86	189	Engine coolant	1	3
Fan, reversible	4	9	Ether starting aid	3	6
Guards:			Starting motor, low temperature	9	20
Crankcase, extreme service	191	420	Sweeps, logging, ROPS canopy	161	354
Final drive	37	82	Tool kit	7	15
Radiator, hinged, heavy-duty	34	76	Tracks, pair, Sealed and Lubricated:		
Normal service	5	10	510 mm (20"), extreme service	241	532
Radiator bottom, heavy-duty	563	1242	510 mm (22")	-138	-304
Track guiding, center only	84	185	560 mm (22"), extreme service	414	912
Track roller	209	460	610 mm (24')	172	380
Hydraulic systems:			Sealed, non-lubricated track, 20", 20" extreme service, 22", 22" extreme service and 24" also available.		
1-valve, for 7A blade	422	930	Weights, approximate, same as above.		
2-valve, for 7S blade	485	1070	Vandalism protection:		
2-valve, for 7A blade and ripper	458	1010	Instrument panel guard	3	6
2-valve, for 7A blade and tilt cylinder	522	1150	Cap locks for:		
3-valve, for 7S blade and ripper	535	1180	Engine oil dipstick	2	4
3-valve, for 7A blade, ripper and tilt cylinder	571	1260	Fuel drain rod handle	1	3
Idlers (two), special application	20	45	Fuel tank	.5	1
Lights (four):			Hydraulic tank	1	3
With ROPS mounting	36	80	Radiator	1	3
Without ROPS mounting	18	40	Winch	1366	3011
Prescreener	3	5			
Radiator core protector grid	32	70			

D7G Track-Type Tractor

AEHQ5243 (11-97)
(Replaces AEHQ3605)

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Materials and specifications are subject to change without notice.
Featured machines in photos may include additional equipment.
See your Caterpillar dealer for available options.

The Caterpillar logo consists of the word "CATERPILLAR" in a bold, white, sans-serif font. A yellow triangle is positioned below the letter "A", pointing upwards. A registered trademark symbol (®) is located to the upper right of the word.

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