

D7G Series 2

Track-Type Tractor



Engine

Engine Model	Cat® 3306 DITA	
Net Power – Caterpillar	150 kW	202 hp

- Engine ratings at 2,000 rpm
- Net flywheel power is the power available at the flywheel when the engine is equipped with fan, air cleaner, water pump and alternator.
- No altitude deration is required below 4100 m (13,450 ft).

Weights

Operating Weight	20 580 kg	45,381 lb
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- Operating weight includes: lubricants, coolant, 2-valve hydraulics, 560 mm (22 in) shoes, 7S bulldozer blade, Non-ROPS cab, air conditioning, full fuel tank and 80 kg (176 lb) operator.

D7G Series 2 Track-Type Tractor

Engine

The Cat® 3306 DITA uses direct injection to control fuel consumption and allows lower engine speeds for reduced stresses and increased life. **pg. 4**

Power Train

With a power train that is designed and built by Caterpillar, the D7G Series 2 ensures compatibility, maximum performance and reliability. **pg. 5**

Undercarriage

The Caterpillar® undercarriage is designed for optimized machine balance and best possible performance and component life. **pg. 6**

Engineered for demanding work. The D7G Series 2 is designed to be productive in a variety of applications. It keeps material moving with the reliability and low operating costs you expect from Cat® machines.



Work Tools

Work Tools and Ground Engaging Tools provide the flexibility to match the machine to the job, maximizing performance. **pg. 7**

Operator Station

- ✓ The operator station is designed with optimum comfort and maximum productivity in mind. **pg. 8**

Serviceability and Total Customer Support

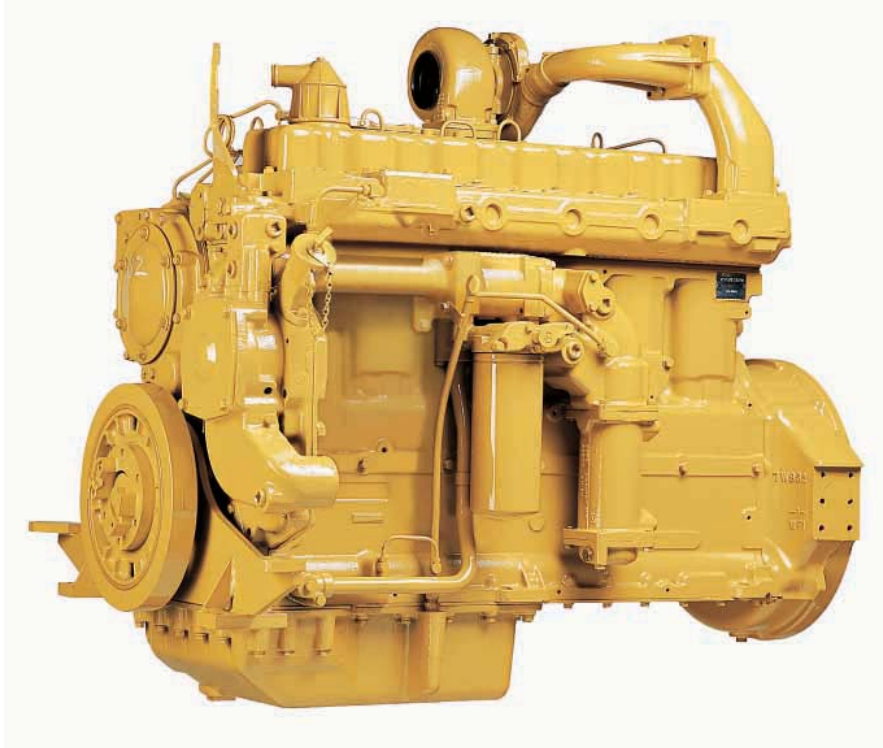
The most serviceable machines from the most committed dealers. World-class product support. The Cat® Dealer Network trained experts keep your fleet up and running, maximizing your equipment investments. **pg. 10**



✓ *New Feature*

Engine

The Cat[®] 3306 DITA uses direct injection to control fuel consumption and allows lower engine speeds for reduced stresses and increased life.



3306 Diesel Engine. The Caterpillar[®] 3306 is a six-cylinder, four stroke diesel. The large displacement allows lower engine speeds for reduced stresses and increased engine life.

Direct Injection. The 3306 maintains good productivity per unit of fuel burned by using direct injection to control fuel consumption. Optimum weight-to-horsepower ratios minimize cycle times, allow larger blade loads and shorter load times.

Injector nozzles are non-clogging and adjustment free.

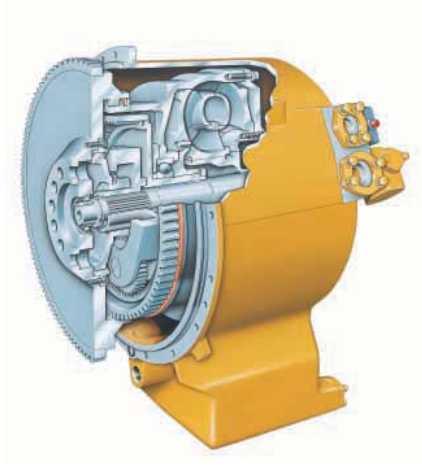
Aluminum Pistons. The 3306 features cam-ground three-ring cast tapered aluminum alloy pistons used to reduce friction, decrease heat build-up and provide excellent oil control. Crankcase journals are hardened and aluminum bearings are steel-backed. The high fatigue aluminum alloy-bearings surface not only has the capability to withstand heavy shock loads during crankshaft rotation, it is also soft enough to allow normal wear of the crankshaft journals.

Valves. Valves are stellite face hardened with hard alloy steel seats for hardness that contributes to long service life.

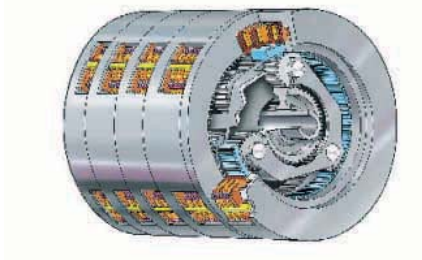
Rebuildability. The 3306 has the ability to be rebuilt to provide long life.

Power Train

With a power train that is designed and built by Caterpillar, the D7G Series 2 ensures compatibility, maximum performance and reliability.



Torque Divider. The torque divider arrangement is a Caterpillar exclusive that provides high torque multiplication when under load with direct drive efficiency when completing lower engine load functions such as backfilling trenches or spreading material.



Power Shift Transmission. Three speeds forward and three speeds reverse, utilizing large diameter, high capacity, oil-cooled clutches.

- Modulation system permits fast speed and direction changes.
- Oil-to-water cooler for maximum cooling capacity.
- Forced oil flow lubricates and cools clutch packs to provide maximum clutch life.

Undercarriage

The Caterpillar undercarriage is designed for optimized machine balance and best possible performance and component life.



Roller Frames. The track roller frame is a reinforced box section construction with six lifetime lubricated track rollers per side and outside mounted carrier rollers, two per side.

Rollers and Idlers. Feature symmetric Duo-Cone seals for long sealing life to prevent oil loss and dirt entry. Toric rings maintain performance over a wide range of temperatures. Rollers and idlers are serviceable and rebuildable to provide value. Abutment-style caps securely attach rollers and idlers to the bogies. All idlers, track and carrier rollers are life-time lubricated and require no periodic maintenance intervals.

Track Shoes. Track shoes are available in sizes to match the working conditions.

Guards. Front and rear guiding guards are standard.



Sealed and Lubricated Track.

Minimizes internal bushing wear with the pin by a thin film of lubricant and retained by a polyurethane seal. This extends the service life of the undercarriage as a system.

Work Tools

Work Tools and Ground Engaging Tools provide the flexibility to match the machine to the job, maximizing performance.



Bulldozers. All blades feature a strongbox-section design that resists twisting and cracking. Blades are made of Cat DH-2™ steel that has high tensile strength and stands up to the most severe applications. Heavy moldboard construction and hardened bolt-on cutting edges and end bits add strength and durability.

Straight Blade. The straight blade can handle a wide variety of materials including heavy material. With the high kW per meter (hp/ft) of cutting edge, aggressive penetration is achieved.

Angle Blade. The angle blade can be positioned straight or angled 25 degrees to either side making this blade a versatile option.

Semi-Universal Blade. The Semi-Universal blade is built for tough applications where penetration is more important than capacity. The blade wings are designed for superior load retention and penetration in tightly packed materials and for finishing applications.

Multi-Shank Ripper. Multi-shank rippers are made to penetrate tough material fast and rip thoroughly for use in a variety of materials.

Cutting Edges and End Bits. Cutting edges are made of DH-2 steel. End bits are made of DH-3™ steel to provide maximum service life in tough materials.

Operator Station

The operator station is designed with optimum comfort and maximum productivity in mind.





Directional Controls. Steering and transmission controls are located conveniently to the operator's left for comfortable operation.



Dozer Blade Controls. The dozer controls are located on the operator's right hand side.

Walk Through Operator Area.

The operator area has a walk through design providing a comfortable operating environment with the controls within easy reach.



Seat. A comfortable suspension seat is able to be adjusted fore and aft for greater operator comfort. Arm rests also help provide comfort for all day operation. Wide 76 mm (3 in) seat belt is standard.



Monitoring System. A machine monitoring system lets you track the following machine systems:

- Fuel level
- Coolant temperature
- Transmission/torque converter temperature
- Service hour meter
- Air cleaner service indicator
- Engine oil pressure and alternator are monitored by a warning lamp and audible alarm system.



Brake Pedal. A single brake pedal actuates both tracks to make operation easier.

Air Conditioner. An optional air conditioner with strategic vents provide a comfortable environment in a variety of weather conditions.

Cab. The optional cab is pressurized to keep dust out. A 3 speed blower fan is standard.

Serviceability and Total Customer Support

The most serviceable machines from the most committed dealers. World-class product support. The Cat Dealer Network trained experts keep your fleet up and running, maximizing your equipment investments.



Serviceability. Minimizes maintenance and repair downtime. Large openings on either side of the machine make major service points easily accessible.

Machine Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? What is the true cost of lost production? Your Cat Dealer can give you answers to these very important questions.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Product Support. Plan for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Programs such as Custom Track Service (CTS), S•O•S analysis, Technical Analysis and guaranteed maintenance contracts give peak life and performance to your machine.

Parts Program. You will find nearly all parts at your dealer parts counter. Cat Dealers use a world-wide computer network to find in-stock parts to minimize machine downtime. Ask about your Cat Dealer's exchange program for major components. This can shorten repair time and lower costs.

Remanufactured Components. Genuine Cat Remanufactured parts save you money. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent. Components are available for the drive train, engine, and hydraulics.

Operation. Improving operating techniques can boost your profits. Your Cat Dealer has training videotapes, literature, and other ideas to help you increase productivity.

Engine

Engine Model	Cat® 3306 DITA	
Flywheel Power	150 kW	202 hp
Maximum Flywheel Power	164 kW	220 hp
Net Power – Caterpillar	150 kW	202 hp
Net Power – ISO 9249	150 kW	202 hp
Net Power – SAE J1349	150 kW	202 hp
Net Power – EU 80/1269	150 kW	202 hp
Bore	121 mm	4.75 in
Stroke	152 mm	6 in
Displacement	10.5 L	638 in ³

- Engine ratings at 2,000 rpm
- Net flywheel power is the power available at the flywheel when the engine is equipped with fan, air cleaner, water pump and alternator.
- No altitude deration is required below 4100 m (13,450 ft).

Transmission

1.0 Forward	3.9 km/h	2.3 mph
2.0 Forward	6.4 km/h	4 mph
3.0 Forward	9.9 km/h	6.2 mph
1.0 Reverse	4.5 km/h	2.8 mph
2.0 Reverse	7.8 km/h	4.9 mph
3.0 Reverse	12.7 km/h	7.9 mph

Service Refill Capacities

Fuel Tank	415 L	110 gal
Cooling System	45.4 L	11.2 gal
Engine Crankcase	27 L	7.3 gal
Final Drives (each)	34 L	9 gal
Hydraulic Tank	102 L	27 gal
Transmission, bevel gear and steering clutch compartments, torque converter	70 L	18.5 gal

Weights

Operating Weight	20 580 kg	45,381 lb
Shipping Weight	15 650 kg	34,510 lb

- Operating weight includes: lubricants, coolant, 2-valve hydraulics, 560 mm (22 in) shoes, 7S bulldozer blade, Non-ROPS cab, air conditioning, full fuel tank and 80 kg (176 lb) operator.
- Shipping weight includes: lubricants, coolant, 1 valve hydraulics, 560 mm (22 in) shoes and 5% fuel.

Undercarriage

Shoe Type	Moderate Service (Single Grouser)	
Width of Shoe	560 mm	22 in
Width of Shoe – Optional	510 mm	20 in
Shoes/Side	38	
Grouser Height	70 mm	2.7 in
Track on Ground	2720 mm	107 in
Ground Contact Area	3.05 m ²	4,708 in ²

Blades

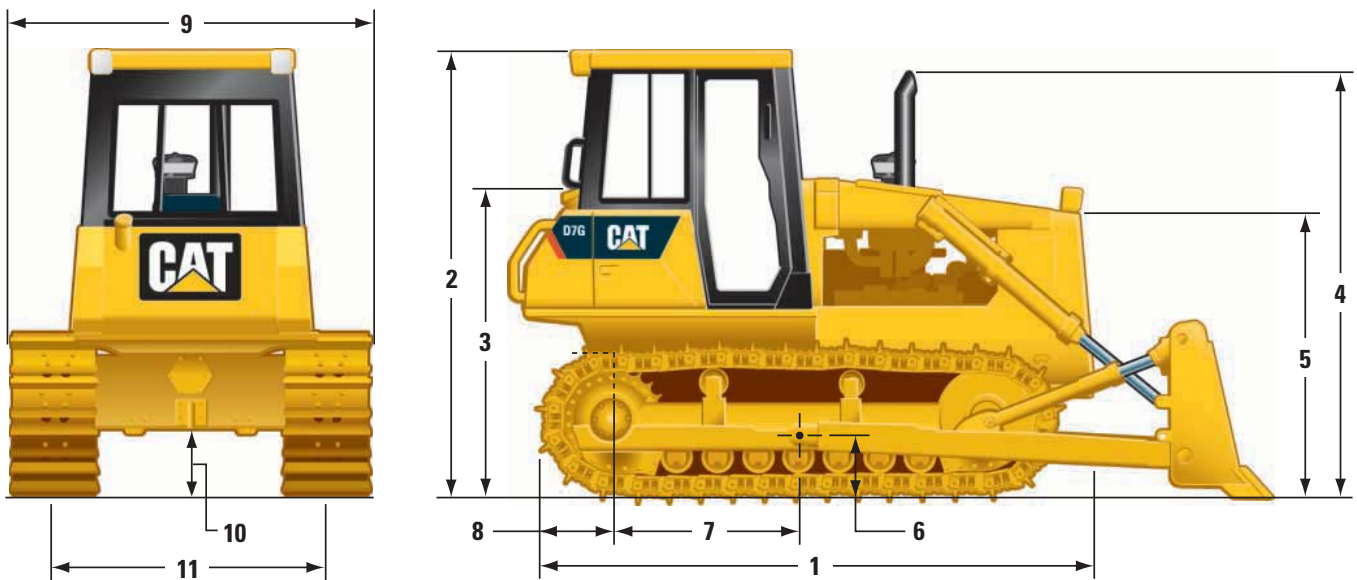
SU-Blade Capacity	5.75 m ³	7.53 yd ³
S-Blade Capacity	4.2 m ³	5.5 yd ³
A-Blade Capacity	2.9 m ³	3.8 yd ³

Ripper

Type	Fixed Parallelogram	
Number of Pockets	3	
Overall Beam Width	2210 mm	87 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	490 mm	19 in
Maximum Penetration	510 mm	20 in

Dimensions

All dimensions are approximate.



1 Overall length	4198 mm	165.3 in
2 Height to top of non-ROPS cab	3294 mm	129.7 in
3 Height to top of fuel tank	2334 mm	91.9 in
4 Height to top of exhaust	2942 mm	115.8 in
5 Height to top of radiator	2120 mm	83.5 in
6 Height to bulldozer trunnion	481 mm	18.9 in
7 Distance from sprocket to bulldozer trunnion	1124 mm	44.2 in
8 Distance from sprocket to rear of tractor	575 mm	22.6 in
9 Overall width with 560 mm (22 in) standard shoes	2560 mm	100.8 in
10 Ground clearance (SAE J894)	349 mm	13.7 in
11 Track gauge	1981 mm	78.0 in

To overall length (1), add the following dimension for respective attachments:

Angle bulldozer	1300 mm	51.2 in
Straight bulldozer with tilt	1090 mm	42.9 in
No. 7 ripper	1650 mm	65.0 in
PA57G winch	973 mm	38.3 in
SU Bulldozer	1270 mm	50.0 in

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details.

ELECTRICAL

- 35 amp alternator
- Battery (2), high CCA-Heavy Duty
- Hour meter
- Horn

OPERATOR ENVIRONMENT

- Decelerator
- Gauges
 - Fuel level
 - Transmission/torque converter oil temperature
 - Engine coolant temperature
 - Ammeter (lamp)
 - Engine oil pressure, (lamp and audible)

- Hand throttle
- Suspension seat – vinyl
- Seat belt
- Brake pedal – single

POWER TRAIN

- Double Reduction Final Drives
- Cat[®] 3306 DITA with 24-volt starter
- Fuel priming pump – manual
- Fuel/Water separator
- Air cleaner with pre-cleaner
- Blower fan
- Muffler (curved tip)
- Power-shift transmission (3F-3R)

UNDERCARRIAGE

- Track End Guiding Guards
- 6-Roller Track Frame
- 560 mm (22 in) Single Grouser Sealed and Lubricated Track
- Hydraulic Track Adjusters
- Restrained Equalizer Bar
- Segmented Sprocket

OTHER STANDARD EQUIPMENT

- Crankcase Guard
- Hinged Radiator Guard
- 415 L (110 gal) Fuel Tank
- Front Pull Devise and retrieval hitch
- Cap Locks (Fuel, Hydraulic, Fuel Drain Cover, Seat Support)

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for details.

Lighting Package

- Forward facing (2)

- Rear facing (2)

Alarm, backup

Heavy duty radiator guard, punched hole

Engine enclosure, normal duty

Engine enclosure, heavy duty

Guards

- Vandal, instrument panel (for canopy)

- Track guiding (center)

- Full length track roller frame

- Crank case, extreme service

- Fuel Tank

- Hydraulic Tank

- Hinged, heavy-duty radiator

Non-ROPS canopy

Non-ROPS cab

Pre-cleaner with pre-screener

610 mm (24 in) single grouser sealed and lubricated track

Angle bulldozer blade

Straight bulldozer blade with tilt cylinder

Semi-universal bulldozer blade with tilt cylinder

Hydraulics

- One valve

- Two valve

- Three valve

Multi-shank ripper

Drawbar – rigid

Heater

Air Conditioning

Ether start

Start Motor, heavy duty

Notes

D7G Series 2 Track-Type Tractor

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