

D6M

Track-Type Tractor



XL & LGP

Cat® 3116 turbocharged diesel engine

Gross horsepower	114 kW	153 HP
Flywheel horsepower	104 kW	140 HP
Operating weight		
XL arrangement	15 530 kg	34,240 lb
LGP arrangement	16 930 kg	37,320 lb

Blade capacity

XL arrangement (VPAT dozer)	3.18 m³	4.16 yd³
XL arrangement (SU dozer)	4.28 m³	5.6 yd³
LGP arrangement	3.16 m³	4.11 yd³

D6M Track-Type Tractor

An outstanding choice for productivity and versatility.

Power Train

Perfectly matched power train. From the powerful and fuel efficient 3116

- ✓ *DIT engine* to the durable power shift transmission, all Caterpillar® components work together to deliver responsive power when you need it. **pg. 4-5**

Undercarriage

The elevated sprocket moves the final drives above the work area, isolating them from ground impacts for long power train component life. Choice of XL and LGP configurations, as well as various shoe options, to best match the application. **pg. 6-7**

Structures

- ✓ *Mainframe* is designed and built for durability by using the latest technology in engineering and manufacturing. It provides solid support and perfect alignment for major components. **pg. 7**

Engineered to exceed most demanding goals.

Combining power and rugged components, the versatile D6M is designed for tough and varied working conditions. It keeps material moving with the reliability and durability you expect from Cat machines.



Operator Station

Ergonomically designed for maximum productivity and comfort. Controls are intuitive, low-effort and easy to reach,

- ✓ viewing area is excellent, *instrument panel* is easy to read and informative, sound level is reduced and storage space has been increased.
- pg. 8-9

Optional Finger Tip Controls

- ✓ Effortless and precise *one-hand electronic steering and transmission control* with auto shift and auto-kickdown features to increase operator efficiency and reduce operator fatigue.
- pg. 10

Work Tools

- ✓ Choice of VPAT (*Variable Pitch Power Angle Tilt*) or SU bulldozer blades, rippers and other options allow you to customize the D6M to match your specific applications. **pg. 11-12**

Serviceability

Major modular components are designed for excellent serviceability, and allow fast in-field component exchange. **pg. 12**

Total Customer Support

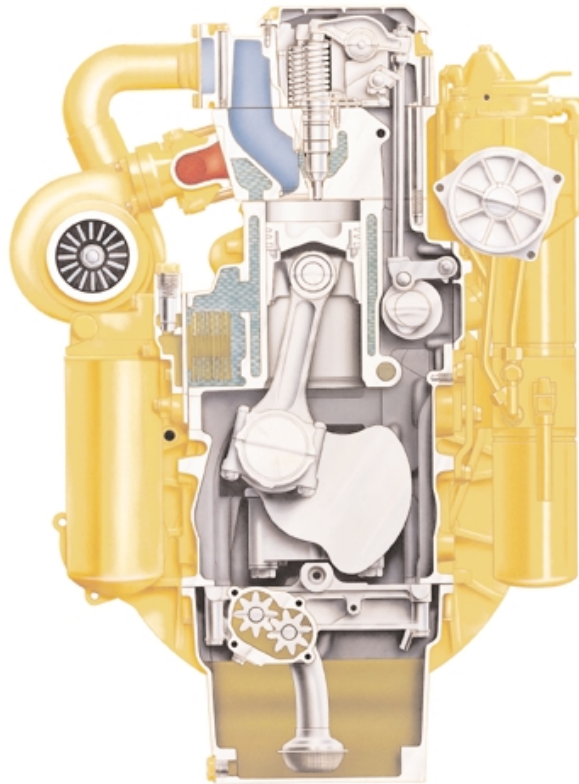
The best parts availability and the best service capability. **pg. 13**



✓ *New feature*

Power Train

The Caterpillar 3116 engine, optimally matched with torque converter and power shift transmission, provides an excellent balance between efficiency and power.



Cat 3116 Engine. Caterpillar 3116 engine performs at full-rated net power of 104 kW (140 hp) at 2200 rpm. High torque rise of 37% occurs at 1400 rpm. High horsepower, combined with high torque rise, give the D6M the ability to doze through tough material. Plus, this engine meets all the latest emission regulations around the world.

Turbocharging improves response and performance at low to medium engine speeds.

Direct Unit Injection Fuel System eliminates external high pressure fuel lines and provides excellent control of injection timing with individually metered, high-pressure, direct-injection of fuel. Result is improved engine response and reliability plus low fuel consumption and emissions.

Resilient engine mounting for quieter operation and less vibration.

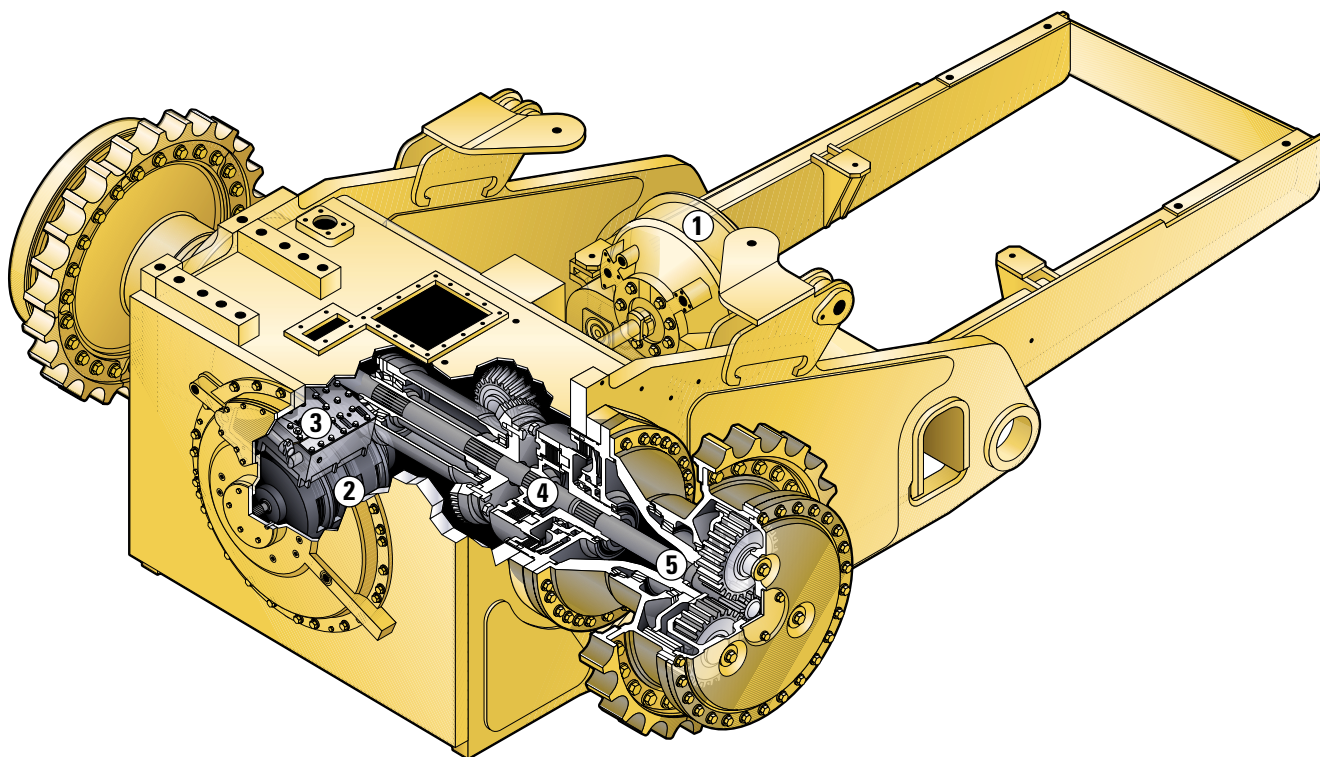
Long-life design

- One-piece, stress relieved, cast iron cylinder block for increased rigidity.
- High-strength, one-piece cylinder head with replaceable stainless steel intake valve seat and nickel alloy exhaust valve seat.
- Optimized camshaft location, short pushrods and roller followers to reduce flexing.
- Full-length, water-cooled cylinders for maximum heat transfer.
- Large engine oil cooler to maintain optimum engine oil temperature.
- Main and rod bearing surfaces increased for better wear life.
- Two piece articulated piston with forged steel crown for added durability.
- Low-mounted oil pump for quick start-up lubrication.

Easy maintenance. The engine can be rebuilt for a second life. Caterpillar remanufactured parts are available to economically replace many components. Some innovative maintenance features of the 3116 engine:

- Parent-metal cylinder block can be rebored twice and dry-sleeved.
- Connecting rods can be removed through the tops of the cylinders.
- Camshaft followers and pushrods can be easily replaced without removing the camshaft.
- Water pump can be serviced as a unit or rebuilt.

Improved multiple row modular radiator efficiently cools engine for optimum engine performance in tough environments and applications.



Drive train components are matched and balanced to deliver exceptional performance and durability.

1 Torque converter responds to changing load conditions by providing torque multiplication for increased drawbar pull while protecting the drive train from shock loads.

2 Power shift transmission. Proven planetary design delivers fast, smooth speed changes while distributing loads over multiple gears for long life. Perimeter-mounted clutches provide superior heat dissipation and a large contact area for long service life.

3 Electronic Clutch Pressure Control for smooth and automatic shifting features for Finger Tip Control machines.

4 Clutches and brakes. Oil-cooled, hydraulically actuated multiple-disc clutches and brakes for smooth, precise turns. On Finger Tip Control machines, electronic clutch and brake are electro-hydraulically actuated for improved steering, braking and modulation.

5 Final drives. Precision, high load capacity gears and bearings give long-lasting performance and durability.

Undercarriage

The Caterpillar elevated sprocket undercarriage arrangements are designed for better balance, performance and component life.



Final drives and associated power train components are raised above the work area, isolating them from ground-induced impact loads, as well as implement and roller frame alignment loads, extending power train component life.

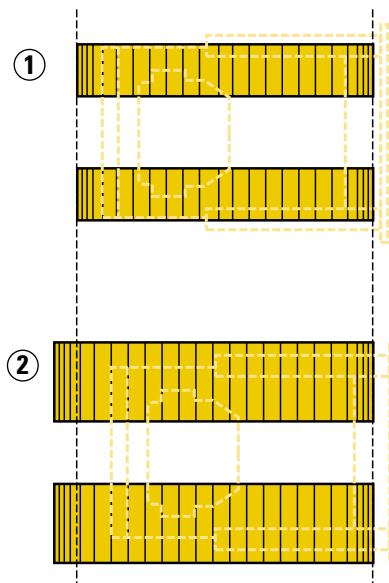
Sprocket position keeps sprocket teeth, bushings and final drives away from the abrasive materials and moisture, resulting in longer final drive gear and seal life.

High flange improved track rollers (optional) combined with center or full length roller guard attachments greatly improve track guiding for demanding side slope conditions.

Track configurations

1 XL (Extra Long) arrangement features forward idler position providing additional track on ground for finish grading applications. Wide gauge for enhanced side slope stability.

2 LGP arrangement (Low Ground Pressure) undercarriage is specially designed to work in soft and spongy conditions. Wide track shoes, long track frame and wider gauge increase track contact area, reduce ground pressure for improved stability and provide excellent flotation in swampy conditions.



Track options

All tracks are sealed and lubricated.

- **Heavy Duty (HD) track** (standard) is best suited for operation in higher impact conditions.
- **Rotating Bushing Track (RBT)** (optional) is specially designed for operation in higher-abrasion conditions with only low to moderate impacts. RBT features bushings which rotate when in contact with the sprocket. As a consequence, the relative motion between the bushings and the sprocket teeth is virtually eliminated. The minimal wear that does occur is evenly distributed around the bushings. Therefore, no bushing turn is required, and sprocket segment wear is dramatically reduced. In effect, Rotating Bushing Track does an ongoing bushing turn as the machine works.

Shoe options

Caterpillar single-grouser shoes are made from heat-treated, rolled steel for added strength.

3 Moderate Service (MS) shoes

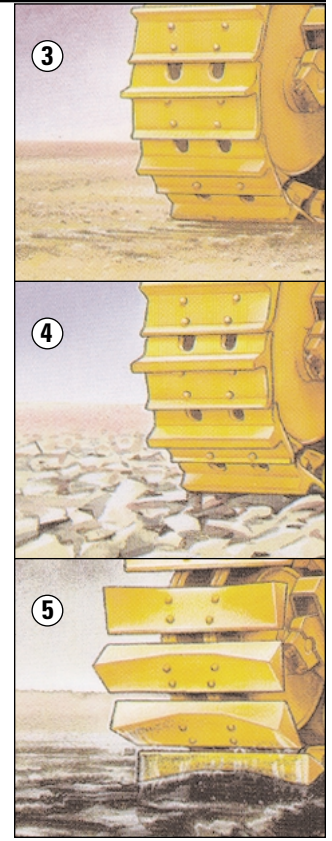
(standard) are for use in only moderate-impact and medium-abrasive conditions. They provide good penetration and offer resistance to wear and bending.

4 Extreme Service (ES) shoes (optional) feature more hardened wear material in the grouser and plate areas for use in higher-impact conditions.

5 Self-cleaning shoes (optional with LGP arrangement) are cast steel and are designed to reduce material buildup for better traction, especially in spongy applications.

Shoe width

- **Standard width shoes** — 600 mm (24") on XL arrangements, 860 mm (34") on LGP arrangements — provide excellent flotation in most applications.
- **Narrower shoes** — 560 mm (22") on XL arrangements, 710 mm (28") on LGP arrangements — are for use in dryer conditions.



Structures

Engineered and manufactured to provide durability in the most demanding work.

The D6M high strength steel mainframe

absorbs high impact shock loads and twisting forces.

Computer-aided finite element analysis

used to evaluate and ensure high durability.

Full scale structural testing analysis

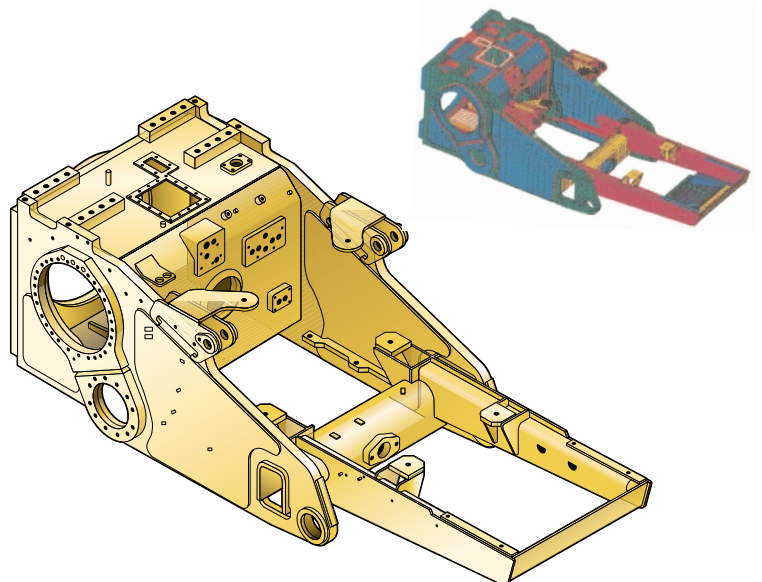
to verify and ensure integrity of the mainframe.

Robotic welding provides deep penetration and consistency for long life.

Precision top level machining for perfect alignment of bores and surfaces.

Pivot shaft and pinned equalizer bar for maintaining track roller frame alignment.

Computer-aided finite element analysis



Operator Station

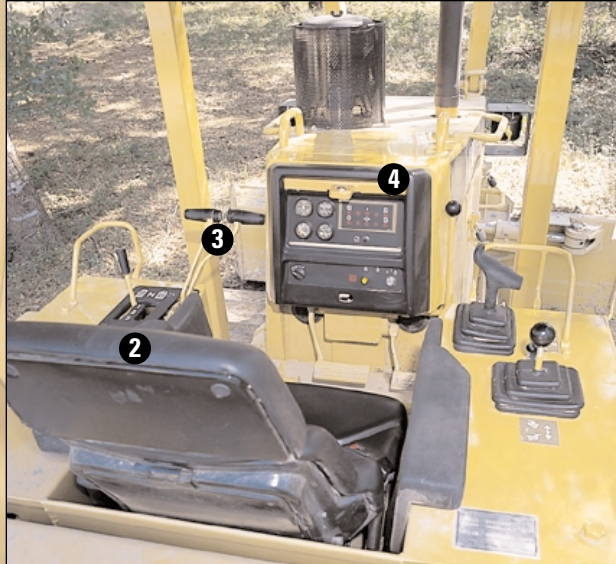
Ergonomically designed for operator's maximum comfort and productivity.





1 Operator's station provides excellent viewing area to blade and rear of machine. Optional isolation-mounted cab has reduced vibration and operator sound level below 79 dB(A) for comfortable operation. Standard cab is radio-ready with mounting brackets, AM/FM antenna and speakers.

2 The Caterpillar Contour Series Seat is ergonomically designed and fully adjustable for maximum comfort. The seat cushion reduces the pressure on the lower back and thighs while allowing unrestricted arm and leg movement. (Cloth contour series seat is standard with cab; vinyl contour series seat is available for ROPS canopy.)



3 Standard clutch and brake lever steering offers traditional easy-to-reach, low-effort controls.

4 Standard instrument panel for the clutch and brake lever steering machine is the traditional Electronic Monitoring System (EMS) with standard gauge group.

Optional Finger Tip Control (FTC) equipped machines

5 One hand steering and transmission control is intuitive and effortless, providing maximum comfort and productivity.

6 Instrument panel for the Finger Tip Control (FTC) equipped machines is the new Caterpillar Monitoring System (CMS) which includes scroll through digital display for gear selection, engine speed, hour meter, diagnostic codes and other vital information. Also has gauge group displaying fuel level, coolant, power train oil and hydraulic oil temperatures. This system also provides instant feedback on machine systems with three levels of operator alert.

Other improvements include:

- Storage for lunch box, cup and insulated bottle.
- Adjustable armrests with kneepads; electric adjustment on FTC console.
- Dash-mounted heater for OROPS attachment.
- Storage box to the left of operator.
- Vinyl/floor covers enlarged to cover the complete floor area and under seat.

Finger Tip Controls

A revolutionary way to operate with one hand utilizing controls that are easy-to-use and require low-effort.

Finger Tip Controls (FTC) are clustered for easy, one-handed operation to the operator's left. They control steering, machine direction and gear selection.

1 Electronic Clutch and Brake steering system allows the operator to work more precisely in close areas, around structures, obstacles, grade stakes and other machines. It consists of two small levers which send signals that control the steering valve.

- Levers require less than 3 pounds of pull to actuate.
- Steering is accomplished in much the same way as with traditional clutch and brake arrangements but with less time and effort.

Finger Tip Control module can be manually adjusted up and down and fore/aft for maximum comfort. Optional electrical vertical adjustment is available for added convenience.

2 Machine Direction is controlled by a pivoting knob which can be actuated by the thumb of the left hand. Rotating the knob up shifts the machine transmission to forward. Rotating the knob down reverses the machine. The middle setting puts the machine transmission in neutral.



3 Gear selection is made by two buttons to the right of the machine direction knob. The top (up-shift) button shifts the machine transmission to the next higher gear while the bottom (down-shift) button shifts to the next lower gear.

Auto shift and Auto-kickdown in Finger Tip Control machines include the following features.

- Auto shift allows the operator to preselect a forward and reverse gear for frequent directional changes. The settings include first-forward to second-reverse (1F ↔ 2R), and second-forward to second-reverse (2F ↔ 2R).

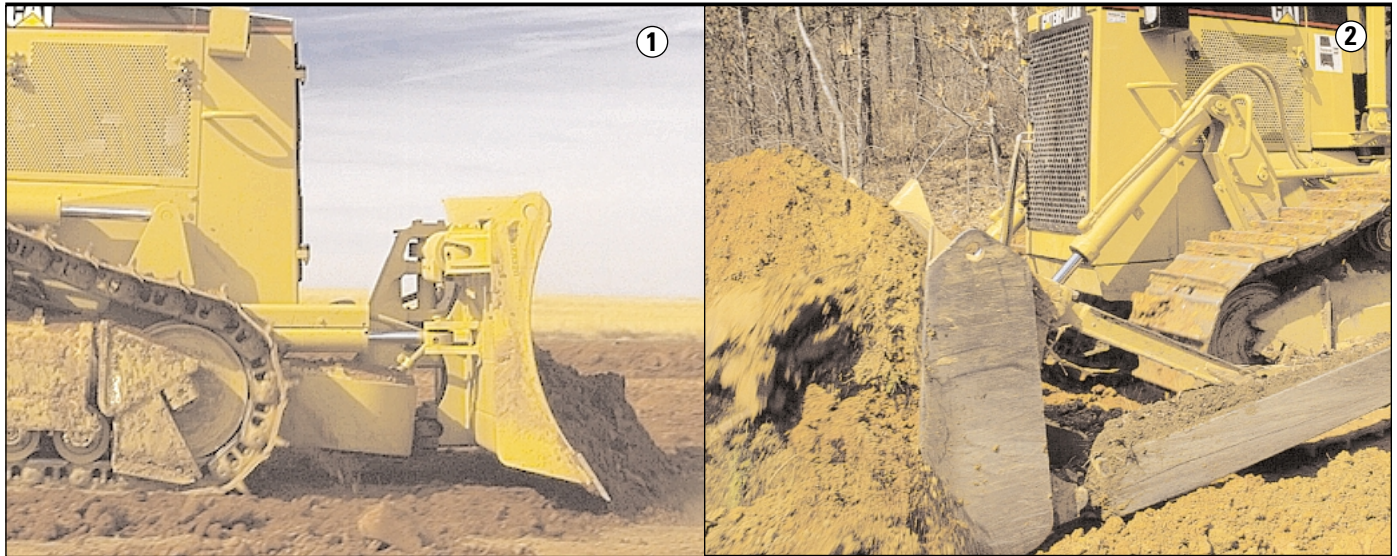
- Auto-kickdown automatically downshifts from any gear when the machine detects a significant increase in load.

- Depending on your application, choose from auto shift and auto-kickdown, auto shift only, auto-kickdown only, and manual mode.

4 Parking brake switch electronically locks Electronic Clutch and Brake steering.

Work Tools

The D6M offers the choice between two blades, to perfectly match your application requirements.



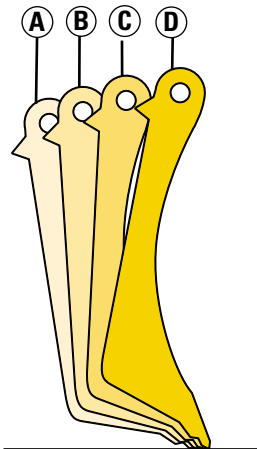
Choice of Variable pitch Power Angle and Tilt (VPAT) or semi-universal (SU) blades for optimum job match up.

1 VPAT Blade

Manually adjustable blade pitch for optimum performance.

- Blade pitch is changed easily by adjusting four bolts and shims.
- Top corners of blade are clipped for better operator viewing area. (XL arrangement only).
- Full hydraulic control of lift, dig, angle and tilt functions.
- C-frame is solidly pinned to the main frame for good blade control and elimination of blade motion due to track oscillation.
- Lubrication points located at all pin joints reduce wear.
- C-frame to tractor joint is sealed and lubricated with remote lube for extended service life and quiet operation.
- Angle cylinder bypass valve and additional hardware help reduce stress.
- Line guards help protect angle cylinder lines from sharp objects and abrasive materials.
- The VPAT blade is positioned close to the machine, for good finish work and good balance.

Available VPAT blade positions.



A 54° position offers maximum blade loads for production dozing, carry, backfill, and land clearing. Best position for finish grading.

B/C 57.5° and 60° positions.

Intermediate positions to better match all requirements. The higher the angle, the lower the material blade retention. Best for general dozing.

D 62° position. For greater blade penetration into harder material. Best position for dozing in sticky material, as it allows for reduced material retention on blade.

2 SU-Blade

(XL arrangement only) is designed with outside-mounted push arms especially for heavy dozing applications requiring heavy corner loading.

Work Tools

The D6M can also be equipped with tailored drawbar, ripper or winches.



1 Rippers

- Rugged parallelogram design for high production ripping.
- Socket beam design means easy servicing.
- Multi-shank ripper includes three straight shanks.
- Optional shanks are curved.



2 Winches – PACCAR PA55

- Standard speed or slow speed with freespool.
- Single lever control actuates both clutch and brake functions to improve operator efficiency. A separate lever is used for freespool operation.
- Input clutches on PTO shaft reduce engine horsepower losses, provide fuel efficiency and economy.

- Clutch engagement and brake release are automatically synchronized for smooth operation.
- Winch components can be serviced with winch mounted on tractor.

Drawbar

- Up sized.
- Larger jaw opening and pin diameter.
- Able to tow a wider range of implements.

Serviceability

Modular design concept moves Caterpillar elevated sprocket tractors a generation ahead in simplified service and repair.

Modular design of power train components permits fast removal and installation.

Pre-testing modular components before installation or after repair assures high quality.

Grouped service points and excellent access to service areas make routine checks fast and convenient.

Quick, easy service access and inspection of daily maintenance items.

Computerized Caterpillar Monitoring System analyzes critical temperatures and pressure — gives visual and audible warning for fast troubleshooting.

Electrical system diagnostic connector enables fast troubleshooting of starting and charging problems.

Modular cooling system, with individual core assemblies, provides improved serviceability, reduced replacement costs and improved durability.

Caterpillar Remanufactured dozer hydraulic cylinders and rods, starters, alternators, cylinder heads, short blocks, engines, oil pumps and final drive hubs are available for fast, economical repairs.

Ecology drains provide an environmentally safer method to drain fluids. They are included on the radiator, hydraulic tanks and major power train components.

Total Customer Support

Unmatched in the industry!



Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement, to help you get the best return on your investment.

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 precise answers to these questions.

Purchase. Look past initial price. 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.

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

Machine management services — Cat dealers help manage equipment investments with:

- Custom Track Service.
- Effective preventive maintenance programs.
- Diagnostic programs like Scheduled Oil Sampling and Technical Analysis.
- Information to make the most cost-effective repair option decisions.
- Customer meetings, training for operators and mechanics.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Product support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a world-wide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured parts. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Engine

Four-stroke cycle, six cylinder 3116 turbocharged diesel engine.

Ratings at 2200 RPM*	kW	HP
Gross power	114	153
Net power	104	140

The following ratings apply at 2200 RPM when tested under the specific standard conditions for the specified standard:

NET POWER	kW	HP	PS
Caterpillar	104	140	—
ISO 9249	104	140	—
EEC 80/1269	104	140	—
SAE J1349	104	140	—
DIN 70020	—	—	145

Dimensions

Bore	105 mm	4.13 in
Stroke	127 mm	5.0 in
Displacement	6.6 liters	403 cu in

*Power rating conditions

- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32 in 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/U.S. gal)]
- net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator
- no derating required up to 2300 m (7500 ft) altitude

Features

- direct injection fuel system with individual adjustment-free unit injectors
- 3-ring forged steel crown pistons with aluminum skirts
- heat resistant sil-chrome steel intake and stellite-faced exhaust valves
- forged steel connecting rods
- one-piece cylinder head designed with cast intake manifold
- cast cylinder block with oil cooler cavity cast into block
- induction-hardened, forged crankshaft that is dynamically balanced
- direct electric 24-volt starting and charging system
- two 12-volt, 100 amp-hour, 750 CCA, maintenance-free batteries
- 70-amp alternator
- plate-type, water-cooled oil cooler
- vertical-flow, steel-fin, tube-type radiator
- dry-type, radial-seal air cleaner with primary and secondary elements

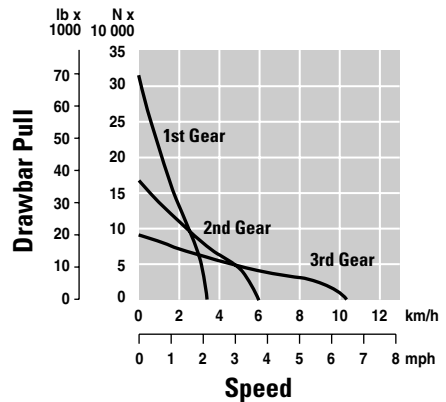
Transmission

Three-speed planetary power shift, remotely mounted from engine.

Speeds with power shift transmission approximate

		km/h	MPH
Forward	1	3.4	2.1
	2	6.0	3.7
	3	10.3	6.4
Reverse	1	4.2	2.6
	2	7.5	4.6
	3	12.8	7.9

Power shift with steering clutches and brakes



Weight (approximate)

Shipping weight

Includes VPAT blade, three-valve hydraulic control, lubricants, coolant, ROPS canopy, track end guiding guards, rigid drawbar, forward warning horn, precleaner, 5% fuel, decelerator and standard shoes.

	XL	LGP
Power shift	15 200 kg 33,510 lb	16 600 kg 36,600 lb

Operating weight

Includes above plus operator and full fuel tank.

	XL	LGP
Power shift	15 530 kg 34,240 lb	16 930 kg 37,320 lb

Final Drive

Single reduction final drives.

Features

- isolated from ground-impact and blade-induced loads
- modular design reduces removal and installation time
- segmented sprocket simplifies replacement

Hydraulic Controls

Load-sensing, variable displacement piston pump.

Pump output at 2200 RPM and maximum pressure
119 liters/min 31.5 gpm

Relief valve setting		
XL	24 804 kPa	3600 psi
LGP	24 804 kPa	3600 psi

Control positions

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

Steering and Braking

Choice of Lever Steering or Finger Tip Control System meets SAE J1026 APR90.

Features — Lever steering

- hand-lever steering/braking controls
- oil-cooled, hydraulically actuated multiple-disc steering clutches and brakes
- single brake pedal brakes both tracks without disengaging steering clutches
- mechanically actuated, spring applied parking brake

Features — Finger Tip Control

- Finger Tip Control of transmission and steering clutches and brakes
- oil-cooled, electro-hydraulically actuated multiple-disc steering clutches and brakes
- single brake pedal brakes both tracks without disengaging steering clutches
- electro-hydraulically actuated, spring applied parking brake

Cab

Caterpillar cab and Rollover Protective Structure (ROPS). ROPS canopy required in U.S.A.

Features

- meets OSHA and MSHA limits for operator and sound exposure with doors and windows closed (according to ANSI/SAE J1166 JUL87)
- ROPS meets the following criteria:
 - SAE J395
 - SAE J1040 APR88
 - ISO 3471-1 1986
 - ISO 3471-1 1994
- also meets the following criteria for Falling Objects Protective Structure:
 - SAE J231 JAN81
 - ISO 3449 1992 Level II

Note

When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 MAY90, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture. The operator sound pressure level is 77 dB(A) when measured per ISO 6394 and 79 dB(A) when measured per ISO 6396

Pivot Shaft and Equalizer Bar

Pivot shaft and pinned equalizer bar oscillation system.

Features

- pivot shaft transmits ground impact loads directly to main frame
- protects power train components
- pinned equalizer bar keeps track roller frame in proper alignment
- system provides smooth machine underside
- prevents collection of mud and debris

Heavy Duty Sealed and Lubricated Track

Heavy duty design for superior track life.

Features

- improved sealability and link rail wear life
- wider bushing strap provides improved bushing retention and resistance to bore stretching and cracking
- wider pin boss and longer pin improves pin-to-link retention
- more rail material increases link and roller system wear life
- extends undercarriage maintenance intervals
- reduces overall undercarriage operating costs
- Heavy Duty Track and Moderate Service Shoes are standard on both XL and LGP arrangements

Service Refill Capacities

	Liters	Gallons
Fuel tank	311	82.2
Crankcase and filter	26	6.9
Transmission, bevel gear and steering clutch (includes torque converter)	122	32.2
Final drives (each side)	7	1.8
Cooling system	48.4	12.8
Equipment hydraulic system (includes hydraulic tank)	69.2	18.3
Hydraulic tank	29.2	7.7
Recoil spring compartment	29.5	7.8

Winch

Rugged PA55 winch with freespool.*

Features

- hydraulically actuated multiple-disc wet clutch and brake
- single lever control of clutch and brake functions
- separate lever for freespool operation

Weight	1276.4 kg	2814 lb
Winch length	1120 mm	44.1"
Winch case width	975 mm	38.4"
Flange diameter	504 mm	19.8"
Drum width	330 mm	13"
Drum diameter	254 mm	10"
Cable size:		
Recommended	19 mm	0.75"
Optional	22 mm	0.87"
Drum capacity:		
Recommended cable	122 m	400'
Optional cable	88 m	289'
Oil capacity	74 L	19.55 gal
Cable/ferrule sizes (OD x length)		
54 mm x 65 mm	2.13"	x 2.56"

*PA55 winch is manufactured for Caterpillar by PACCAR Inc.

Track Roller Frame

Tubular design resists torsional loads.

Features

- Lifetime Lubricated rollers and idlers are directly mounted to roller frame
- oscillating roller frames attach to tractor by pivot shaft and pinned equalizer bar
- large pivot bushings operate in an oil reservoir
- equalizer bar saddle connection is low-friction bushing with remote lube line
- recoil system fully sealed and lubricated

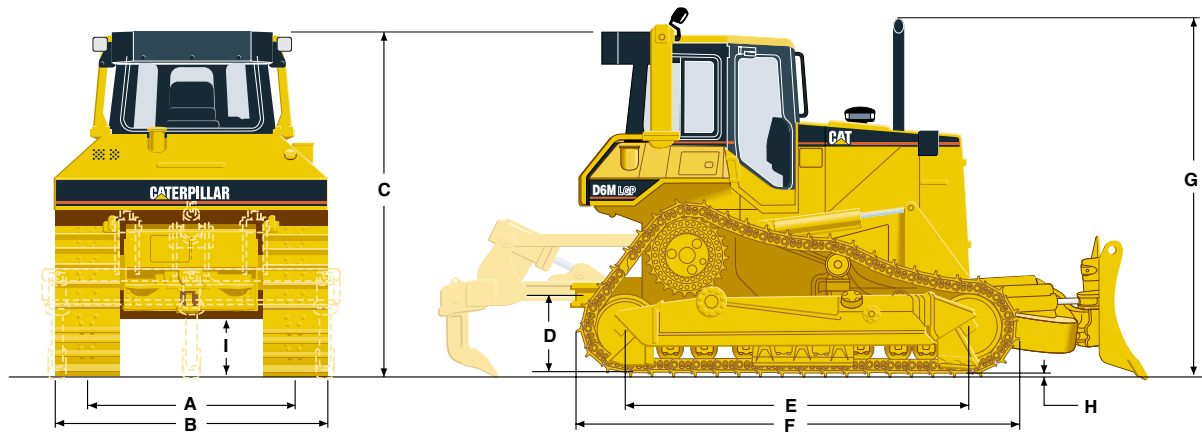
	XL		LGP	
Oscillation:				
front and rear idlers at gauge line	245 mm	9.6"	270 mm	10.6"
at pivot shaft	±2.8°		±2.5°	
Number of rollers (each side)	7		8	
Number of shoes (each side)	40		46	
Width of:				
standard shoes	600 mm	24"	860 mm	34"
optional shoes	560 mm	22"	710 mm	28"
self-cleaning shoes	—		865 mm	34"
Length of track on ground	2550 mm	100"	3102 mm	122"
Track gauge	1890 mm	74"	2160 mm	85"
Ground contact area with:				
560 mm (22") shoes	2.86 m ²	4427 in ²	—	
600 mm (24") shoes (std)	3.06 m ²	4743 in ²	—	
710 mm (28") shoes	—		4.40 m ²	6820 in ²
840 mm (33") shoes**	—		5.21 m ²	8078 in ²
860 mm (34") shoes (std)	—		5.34 m ²	8277 in ²
self cleaning 865 mm (34") shoes	—		5.37 m ²	8324 in ²
Ground Pressure:*				
560 mm (22") shoes	.54 kg/cm ²	7.73 psi	—	
600 mm (24") shoes	.51 kg/cm ²	7.21 psi	—	
710 mm (28") shoes	—		.38 kg/cm ²	5.46 psi
840 mm (33") shoes **	—		.32 kg/cm ²	4.62 psi
860 mm (34") shoes (std)	—		.32 kg/cm ²	4.51 psi
self cleaning 865 mm (34") shoes	—		.31 kg/cm ²	4.48 psi

*Ground pressure is calculated for machine equipped with Heavy Duty (HD) tracks, and Moderate Service (MS) Shoes.

** 840 mm (33") shoes allow the D6M LGP to meet the 3000 mm (118") transportation width restriction with the blade dismounted .

Dimensions

(approximate)



Tractor Dimensions

	XL		LGP	
A. Track gauge	1890 mm	74"	2160 mm	85"
B. Width of tractor with the following attachments:				
Standard shoes without blade	2490 mm	98"	3020 mm	119"
840 mm(33") shoes without blade,			3000 mm	118"
Standard shoes with VPAT blade, angled 25°	2960 mm	117"	3700 mm	146"
C. Machine height from tip of grouser with the following equipment:				
ROPS canopy	3022 mm	119"	3136 mm	123"
ROPS cab	3080 mm	121"	3194 mm	126"
D. Drawbar height (center of clevis) from ground face of shoe	595 mm	23.4"	710 mm	27.9"
E. Length of track on ground	2550 mm	100"	3082 mm	121"
F. Length of basic tractor (with drawbar)	3740 mm	147"	4149 mm	163"
With the following attachments, add to basic tractor length:				
Ripper	1016 mm	40"	1016 mm	40"
PA55 winch	381 mm	15"	381 mm	15"
VPAT blades, straight	1057 mm	42"	1244 mm	49"
VPAT blade, angled 25°	1787 mm	70"	2125 mm	84"
SU blade	1176 mm	46"	—	—
G. Height over stack from tip of grouser	3152 mm	124"	3266 mm	129"
H. Height of grouser	57 mm	2.2"	57 mm	2.2"
I. Ground clearance from ground face of shoe (per SAE J1234)	424 mm	16.7"	538 mm	21.2"

Bulldozer Specifications

	(XL) 6 VPAT Blade		(XL) 6SU Blade		(LGP) 6 VPAT Blade	
Blade capacity (SAE J1265)	3.18 m ³	4.16 yd ³	4.28 m ³	5.57 yd ³	3.16 m ³	4.11 yd ³
Blade width (over end bits)	3274 mm	129"	3190 mm	125.6"	4080 mm	161"
Blade height	1195 mm	47"	1244 mm	49"	1025 mm	40.4"
Digging depth	444 mm	17.5"	520 mm	20.5"	433 mm	17.0"
Ground clearance	925 mm	36.4"	983 mm	38.7"	1024 mm	40.3"
Maximum tilt	497 mm	20"	665 mm	26.2"	598 mm	23.5"
Weight (without hyd. controls)	2372 kg	5229 lb	2427 kg	5351 lb	2819 kg	6215 lb

Ripper

Multi-shank parallelogram design lets you choose one, two or three shanks to match job conditions.

	XL		LGP	
Beam width	2202 mm	86.7"	2202 mm	86.7"
Cross section	216 x 254 mm	8.5 x 10"	216 x 254 mm	8.5 x 10"
Ground clearance under beam (raised)	1090 mm	42.9"	1205 mm	47.4"
(Under tip at full raise)	391.7 mm	15.4"	505.7 mm	19.9"
Number of pockets (teeth)	3		3	
Max. penetration	473.5 mm	18.6"	359.5 mm	14.2"
Max. pryout force	126 000 N	27,780 lb	126 000 N	27,780 lb
Max. penetration force				
(VPAT blade equipped — power shift)	60 230 N	13,278 lb	71 980 N	15,869 lb
Weight				
With three teeth	1406 kg	3100 lb	1406 kg	3100 lb
Each tooth	78 kg	172 lb	78 kg	172 lb

Standard Equipment

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

Air cleaner, dry-type, with precleaner	Ecology drains	Mirror, rearview
Air cleaner service indicator	Electric hour meter	Muffler
Air intake heater	Electric starting, 24-volt direct	Power train oil:
Alternator, 70-amp	Engine, 3116 turbocharged diesel	- Engine coolant/transmission oil/
Armrest, electric adjustment (Finger	Engine enclosures, lockable	equipment hydraulic oil temperature
Tip Control models only)	Extended life coolant	- Fuel level
Automatic shifting features (Finger	Front pull device	Precleaner
Tip Control models only)	Fuel gauge	Seat, vinyl suspension with
Auto-kickdown (auto-downshift)	Fuel priming pump	adjustable armrests
Auto shift (2R-1F, 2R-2F)	Gauge package:	Seat belt, 76 mm (3 inch)
Back up alarm	Temperature of engine	Segmented sprocket
Batteries (2), 12-volt each,	coolant/transmission	Single key start
24-volt total	oil/implement hydraulic oil	Steering system:
Blower fan	Fuel level	Lever Steering or
Brake system, service, parking and	Guards:	Finger Tip Control
emergency	Center section track guiding	Track:
Canopy, ROPS (depending on	(LGP only)	Adjusters, hydraulic
region)	Crankcase, normal service	Carrier rollers
Computerized Caterpillar Monitoring	End track guiding	Heavy Duty (HD) Sealed and
System on Finger Tip Control	Instrument panel (OROPS)	Lubricated
models. Electronic Monitoring	Radiator, hinged	Track with single grouser,
system on Lever Steering models.	Rear	Moderate Service (MS) shoes
Decelerator	Horn	XL — 40-section, 600 mm (24")
Diagnostic connector (Finger Tip	Hydraulics, three-valve for VPAT	LGP — 46-section, 860 mm (34")
Control models)	bulldozer	Two-piece master link
Drawbar, rigid	IMRM radiator	Transmission, power shift
Dual fuel filters	Lifetime Lubricated rollers and idlers	Vandalism protection
	Lockable storage compartment	Water separator

Optional Equipment

Approximate changes in operating weights.

	Kg	Lb
Air conditioner	130	287
Bulldozers (see page 17 for weights)		
Cab – ROPS sound suppressed with heater and Cat Contour Series, suspended, adjustable fabric seat	388	855
Fan, reversible	8	18
Finger Tip Controls, replacing standard mechanical controls	-66	-145
Guards:		
Crankcase, heavy duty	62	137
Fuel tank (for ROPS cab or canopy)	80	176
Precleaner	7	16
Radiator, heavy duty, hinged grill	20	44
Rear screen		
for ROPS cab without air conditioner	55	121
for ROPS cab with air conditioner	53	117
for ROPS canopy	67	148
Track guiding, center section only (XL)	54	119
Track rollers, high flange track guiding arrangement		
XL	27	60
LGP	30	66
Track roller, full length:		
XL	206	454
LGP	262	578
Heater, dash mounted (for ROPS canopy)	25	55
Hydraulics:		
Two valve for 6SU (XL) bulldozer	-15	-33
Three valve for 6SU (XL) and ripper	12	26
Four valve for 6VPAT bulldozer and ripper	24	53
Lighting system, six lights:		
For use with ROPS cab	16	35
For use with ROPS canopy	16	35
Precleaner with prescreener	5	11
Pump, refueling	10	22

	Kg	Lb
Ripper, parallelogram (with three straight teeth)	1406	3100
Each optional curved tooth, replacing straight tooth	9	20
Seat, with adjustable armrests:		
Air suspended Contour Series, cloth (for cab only)	41	89
Contour Series, vinyl, suspended (for cab, standard on canopy)	2	4
Low back, vinyl	0	0
Sound suppression (for cab)	72	158
Starting aids:		
Ether starting aid	3	7
Engine coolant heater (dealer installed)	1	2
Heavy duty batteries	0	0
Sweeps		
ROPS cab	159	350
ROPS canopy	153	337
Tool kit (dealer installed)	15	33
Track, pair, Heavy Duty Sealed and Lubricated*		
XL arrangement, 40-section:		
560 mm (22") MS/HD	-180	-397
560 mm (22") MS/RBT	252	556
560 mm (22") ES/HD	60	132
600 mm (24") MS/RBT	-80	-176
600 mm (24") ES/HD	160	353
LGP arrangement, 46-section:		
710 mm (28") MS/HD	-370	-816
710 mm (28") MS/RBT	-60	-132
865 mm (34") MS/RBT	0	0
860 mm (34") self cleaning/HD	-30	-66
Winch (standard or low speed)	1160	2557
Winch fairlead		
3 Roller	290	639
4 Roller	322	710

* ES = Extreme Service shoes, MS = Moderate Service shoes, HD = Heavy Duty link track, RBT = Rotating Bushing Track.

Model Comparisons

Former Model	kW	HP	Current Model
D5H	89	120	D6M 104 kW(140 hp)
D5H Series II Standard	89	120	
D5H Series II XL & LGP	97	130	
D6C	104	140	
D6D	104-119	140-160	
D6E	116	155	

D6M Track-Type Tractor

AEHQ5168-02 (05-99)
(Replaces AEHQ5168-01)

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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.

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