D6M XL/LGP
Track-Type Tractor

Cat® 3116 turbocharged diesel engine	
Gross horsepower	114 kW/153 hp
Flywheel horsepower	104 kW/140 hp
Operating weight	
XL arrangement	15 530 kg
LGP arrangement	16 930 kg

Blade capacity	
XL arrangement (VPAT dozer)	3.18 m^3
XL arrangement (SU dozer)	4.28 m^3
LGP arrangement	3.16 m^3

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 configuration as well as various shoe options to best match the application. **pg. 6-7**

Structure

✔ *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 Control
✔ *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**

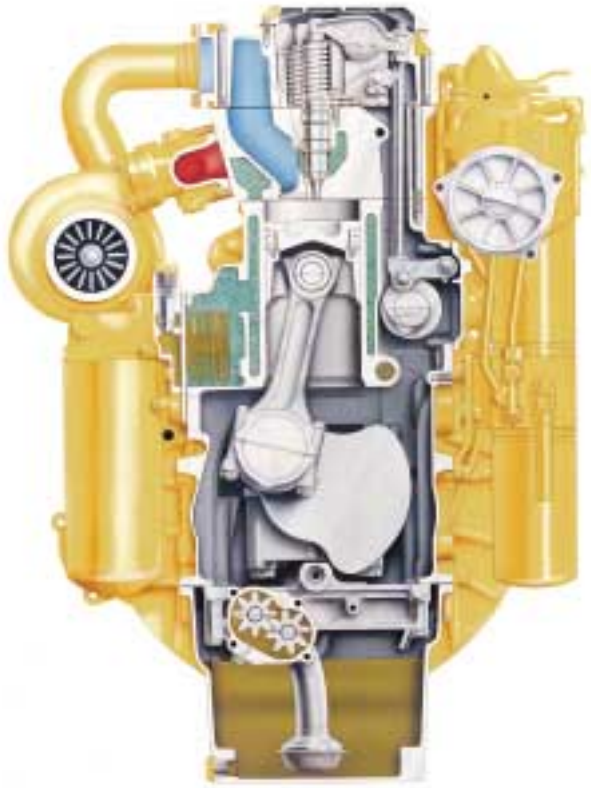
Cat '5 Star Customer Service'
Turns your investment into profit, from purchase to resale through:
- Equipment Management Services for optimum profit
- Maintenance Services for equipment protection
- Predictive Services for optimum availability
- Reconditioning Services for lower repair cost
- Your Caterpillar dealer for satisfaction and peace of mind

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.

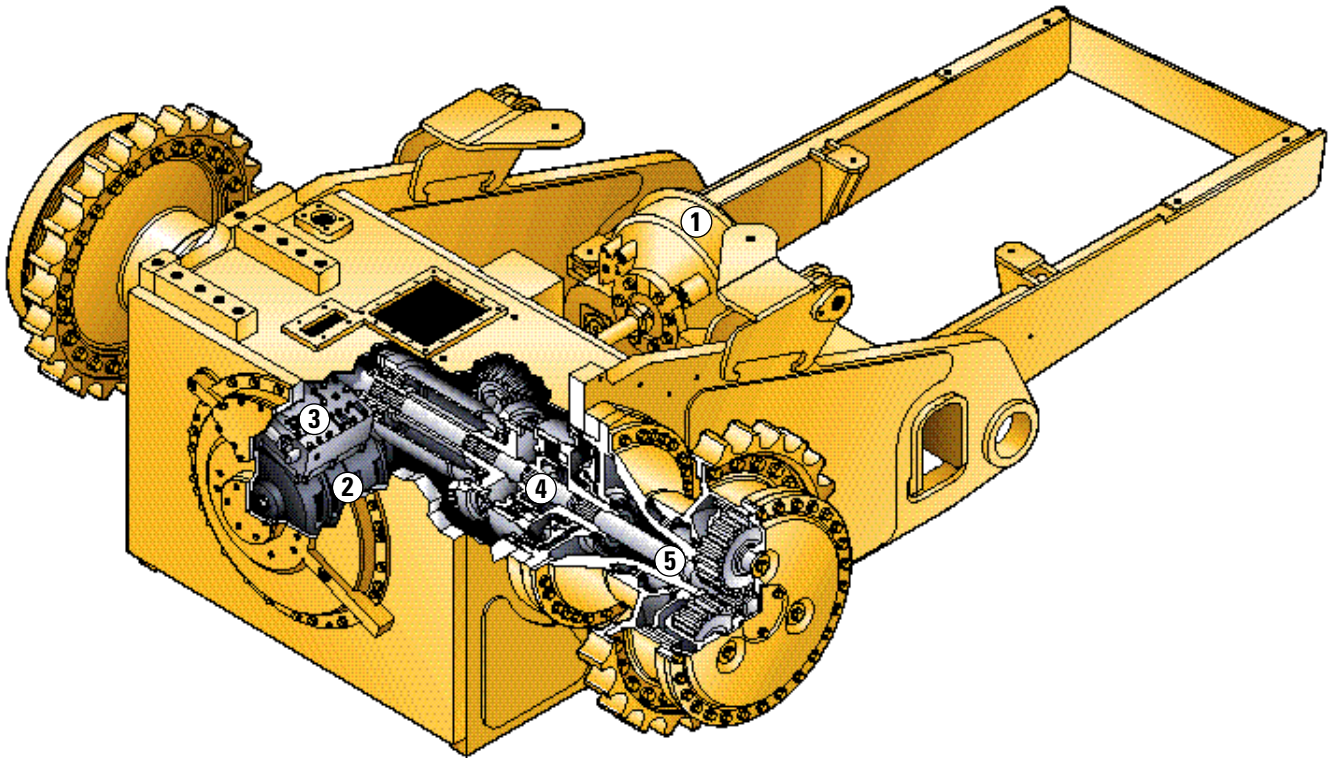
Long-life design

- 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.

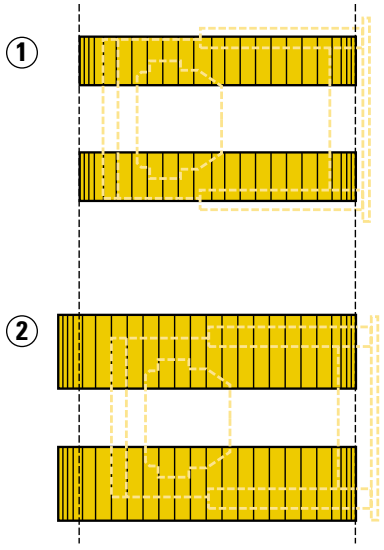
Sprocket position keeps sprocket teeth, bushings and final drives away from the abrasive materials and moisture, resulting in longer final drive gear and seal life.

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 (Low Ground Pressure) undercarriage** is especially 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 especially 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.

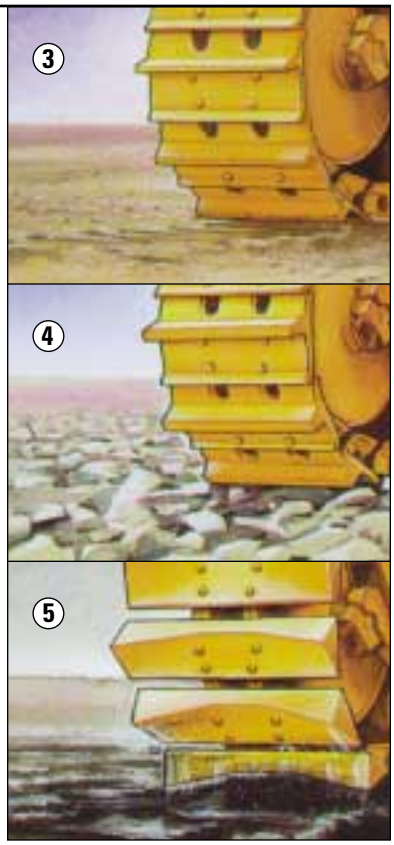
3 Moderate Service (MS) shoes (standard) are for use in only moderate-impact and medium-abrasive conditions. They provide good penetration and offer resistance to wear and bending.

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 on XL arrangements, 860 mm on LGP arrangements – provide excellent flotation in most applications.
- **Narrower shoes** – 560 mm on XL arrangements, 710 mm on LGP arrangements – are for use in dryer conditions.



Structure

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

High strength steel mainframe.
The D6M mainframe absorbs high impact shock loads and twisting forces.

Computer-aided finite element analysis used to evaluate and ensure high durability.

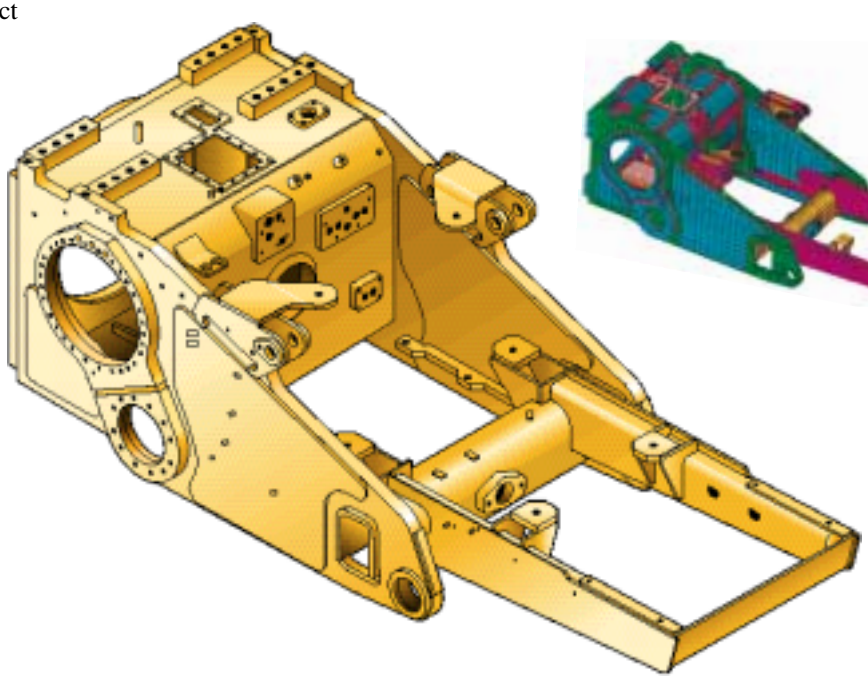
Full scale structural testing analysis to verify and ensure integrity of the mainframe.

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 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 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.

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

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 to 2R), and second-forward to second-reverse (2F to 2R).
- Auto-kickdown automatically downshifts 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.

Work Tools

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

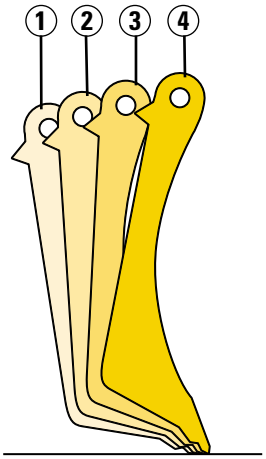
Choice of Variable pitch Power Angle and Tilt (VPAT) or semi-universal (SU) blades for optimum job match up.

VPAT Blade

Manually adjustable blade pitch for optimum performance.

- Blade pitch is changed easily by adjusting 4 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



1 **54° position** offers maximum blade loads for production dozing, carry, backfill and land clearing. Best position for finish grading.

2/3 **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.

4 **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.

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.

Cat '5-Star Customer Service'

When you purchase a Cat D6M, you know it comes with something unique and dependable – Cat '5-Star Customer Service' as delivered by your Cat dealer.

Cat '5-Star Customer Service' starts the moment you first contact your Caterpillar dealer and remains throughout the ownership of your Cat equipment.

Cat '5-Star Customer Service' means a partnership with your Cat dealer, gives peace of mind and lets you focus on your business. Cat '5-Star Customer Service' is all the products, services and people you can count on through the Caterpillar and Cat dealer network.

Equipment management services... to help you make a well informed purchase decision, one that best suits your particular needs and contributes in helping you achieve optimum profit in your business. Your Cat dealer can help you with the financial aspects related to owning and operating a piece of equipment, from machine selection, purchasing, financing or rental to projecting owning and operating costs.

Cat '5-Star Customer Service' includes a wide range of services aimed at helping you keep the competitive edge in your business – key services include...

Maintenance services... are the Caterpillar and Cat dealer products and services aimed at maximizing your machine's availability and performance and enable you to operate your equipment at the lowest possible cost. Your Cat dealer offers a wide choice of maintenance products and tailored services to meet your specific needs.

Predictive services... helps you anticipate unscheduled repairs, maximize your equipment availability and save money. More uptime on the job and a machine that's always ready-to-run means increased earning capacity for you and peace of mind.

Reconditioning services... together with genuine Cat parts, offer you a wide choice of repair alternatives to keep your equipment working and minimize repair costs. Lower repair costs contribute to reduced operating costs and more profit potential for you.

Excellent off-the-shelf availability of genuine Cat parts, together with well-trained, experienced specialists and right-first-time repairs help you maximize your machines' availability and lower your operating costs.

Engine

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

Ratings at 2200 rpm	kW	hp
Gross power	114	153

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

Net power	kW	hp
ISO 9249	104	140
EEC 80/1269	104	140

Dimensions

Bore	105 mm
Stroke	127 mm
Displacement	6.6 liters

Power rating conditions

- 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 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

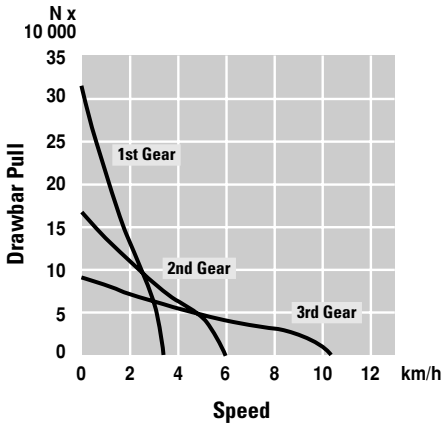
Transmission

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

Speeds with power shift transmission approximate

Forward	km/h
1	3.4
2	6.0
3	10.3
Reverse	
1	4.2
2	7.5
3	12.8

Power shift with steering clutches and brakes



Hydraulic Controls

Load-sensing, variable displacement piston pump.

Pump output at 2200 rpm and maximum pressure	119 liters/min
Relief valve setting	
XL	24 804 kPa
LGP	24 804 kPa

Control positions

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

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 standard on both XL and LGP arrangements

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

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.

Power shift	
XL	15 200 kg
LGP	16 600 kg

Operating weight

Includes above plus operator and full fuel tank.

Power shift	
XL	15 530 kg
LGP	16 930 kg

Cab

Caterpillar cab and Rollover Protective Structure (ROPS).

Features

- ROPS meets the following criteria:
  – ISO 3471-1 1994
- also meets the following criteria for Falling Objects Protective Structure:
  – ISO 3449 1992 Level II

Note

The operator sound pressure level is 79 dB(A) when measured per ISO 6396

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

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

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

Oscillation:	XL	LGP
front and rear idlers at gauge line	245 mm	270 mm
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	860 mm
optional shoes	560 mm	710 mm
self-cleaning shoes	–	865 mm
Length of track on ground	2550 mm	3102 mm
Track gauge	1890 mm	2160 mm
Ground contact area with:		
560 mm shoes	2.86 m^2	–
600 mm shoes	3.06 m^2	–
710 mm shoes	–	4.40 m^2
840 mm shoes	–	5.21 m^2
860 mm shoes	–	5.34 m^2
self cleaning 865 mm shoes	–	5.37 m^2
Ground Pressure:*		
560 mm shoes	0.54 kg/cm^2	–
600 mm shoes	0.51 kg/cm^2	–
710 mm shoes	–	0.38 kg/cm^2
840 mm shoes**	–	0.32 kg/cm^2
860 mm shoes	–	0.32 kg/cm^2
self cleaning 865 mm shoes	–	0.31 kg/cm^2

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

** 840 mm shoes allow the D6M LGP to meet the 3000 mm transportation width restriction with the blade dismounted .

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 kg
Winch length	1120 mm
Winch case width	975 mm
Flange diameter	504 mm
Drum width	330 mm
Drum diameter	254 mm
Cable size:	
Recommended	19 mm
Optional	22 mm
Drum capacity:	
Recommended cable	122 m
Optional cable	88 m
Oil capacity	74 liters
Cable/ferrule sizes (OD x length)	54 x 65 mm

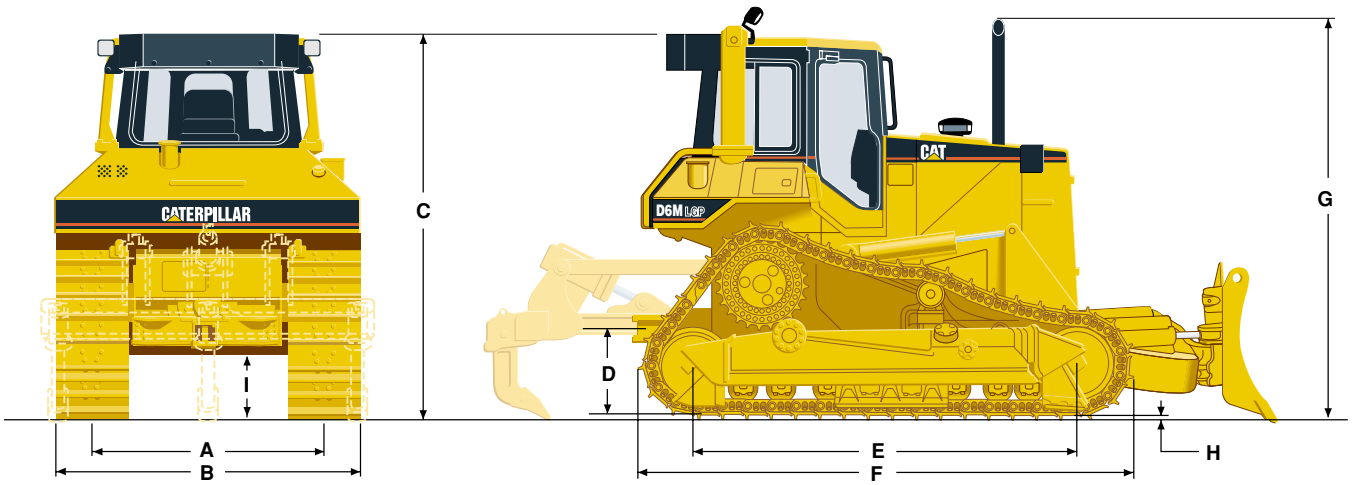
* PA55 winch is manufactured for Caterpillar by PACCAR Inc.

Service Refill Capacities

	Liters
Fuel tank	311
Crankcase and filter	26
Transmission, bevel gear and steering clutch (includes torque converter or oil clutch)	122
Final drive (each side)	67
Cooling system	48.4
Implement hydraulic system (includes tank)	69.2
Hydraulic tank	29.2
Recoil spring compartments (each side)	29.5

Dimensions

(approximate)



Tractor Dimensions		XL	LGP
A	Track gauge	1890 mm	2160 mm
B	Width of tractor with the following attachments:		
	Standard shoes without blade	2490 mm	3020 mm
	840 mm shoes without blade,	–	3000 mm
	Standard shoes with VPAT blade, angled 25º	2960 mm	3700 mm
C	Machine height from tip of grouser with the following equipment:		
	ROPS canopy	3022 mm	3136 mm
	ROPS cab	3080 mm	3194 mm
D	Drawbar height (center of clevis) from ground face of shoe	595 mm	710 mm
E	Length of track on ground	2550 mm	3082 mm
F	Length of basic tractor (with drawbar)	3740 mm	4149 mm
	With the following attachments, add to basic tractor length:		
	Ripper	1016 mm	1016 mm
	PA55 winch	381 mm	381 mm
	VPAT blade, straight	1057 mm	1244 mm
	VPAT blade, angled 25°	1787 mm	2125 mm
	SU blade	1176 mm	–
G	Height over stack from tip of grouser	3152 mm	3266 mm
H	Height of grouser	57 mm	57 mm
I	Ground clearance from ground face of shoe (per SAE J1234)	424 mm	538 mm

Bulldozer Specifications	(XL) 6 VPAT Blade	(XL) 6SU Blade	(LGP) 6 VPAT Blade
Blade capacity (SAE J1265)	3.18 m^3	4.28 m^3	3.16 m^3
Blade width (over end bits)	3274 mm	3190 mm	4080 mm
Blade height	1195 mm	1244 mm	1025 mm
Digging depth	444 mm	520 mm	433 mm
Ground clearance	925 mm	983 mm	1024 mm
Maximum tilt	497 mm	665 mm	598 mm
Weight (without hyd. controls)	2372 kg	2427 mm	2819 mm

Ripper

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

	XL	LGP
Beam width	2202 mm	2202 mm
Cross section	216 x 254 mm	216 x 254 mm
Ground clearance under beam (raised)	1090 mm	1205 mm
(Under tip at full raise)	391.7 mm	505.7 mm
Number of pockets (teeth)	3	3
Max. penetration	473.5 mm	359.5 mm
Max. pryout force	126 kN	126 kN
Max. penetration force (VPAT blade equipped – power shift)	60 kN	72 kN
Weight		
With three teeth	1406 kg	1406 kg
Each tooth	78 kg	78 kg

Standard Equipment

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

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

Optional Equipment

Approximate changes in operating weights.

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

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

* 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

AEHT5168-2 (0899) hr

CATERPILLAR®