

D5N

Track-Type Tractor



Engine

Engine Model	Cat [®] 3126B DITAAC	
Flywheel Power	90.3 kW	121 hp

Weights

Operating Weight	12 710.6 kg	28,022 lb
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Blades

Blade Type	VPAT
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D5N Track-Type Tractor

Excellent control and response with Finger Tip Control deliver productivity and versatility for any job.

Engine

- ✓ The Caterpillar® 3126B engine features an electronic direct injection fuel system to maximize performance and provide the power you need to maximize production. The 3126B meets EPA Tier 2, EU Stage II, and Japan MOC Step 2 engine exhaust emission regulations. **pg. 4**

Drive Train

- ✓ The new Multi Velocity Program (MVP), standard on D5N, provides five speed ranges to better match tractor speed to all applications. The engine speed in each speed range has been optimized to increase fuel economy and reduce operating cost. **pg. 5**

Finger Tip Control

- ✓ Finger Tip Control (FTC) combines steering, machine direction and gear selection into a single control system. The steering assist from MVP improves machine steering performance. **pg. 6**

Undercarriage

- ✓ Exclusively for Caterpillar machines, SystemOne™ Undercarriage extends undercarriage system life, improves reliability, and reduces owning and operating costs. The elevated sprocket undercarriage arrangements are designed for optimized balance and performance in fine grading to heavy dozing applications. **pg. 13**

Work Tools

Caterpillar offers a variety of work tools, designed to provide the strength and flexibility needed to match the D5N to any job, making you more productive. **pg. 14**

Engineered to excel on the most demanding work sites. Combining power, rugged components and superior balance, the versatile D5N is designed for tough working conditions. It keeps material moving with the reliability and durability you expect from Caterpillar® machines.



Operator Station

- ✓ State-of-the-art operator station has reduced sound levels, low cab vibrations and good visibility. Pilot hydraulic controls reduces effort for blade and ripper controls, reducing operator fatigue. **pg. 8**

AccuGrade® Laser and GPS Machine Control Guidance Systems

- ✓ Helping to revolutionize the way you move dirt, the AccuGrade Laser and GPS system can be easily installed on the AccuGrade Ready Option (ARO) equipped machine. **pg. 10**

Structure

- ✓ Steel castings and heavy steel plates are welded to insure a rigid one-piece case and frame structure. Bolted soft mounted cab supports reduce sound level and vibration. Fuel tank rubber isolation mounts eliminate vibration and reduce stress. **pg. 12**

Serviceability

- ✓ PM service intervals increase machine up-time. All major components, filters, and lube points are easily accessible and modular in design. The EMS III machine monitoring system increases diagnostic capabilities. **pg. 16**

Total Customer Support

Your Cat® Dealer offers a wide range of services that can be set up with a Customer Support Agreement. The dealer can customize a plan for you, from PM service to total machine maintenance, allowing you to optimize your return on investment. **pg. 17**



✓ *New Feature*

Engine

The Caterpillar electronic 3126B DITAAC engine meets worldwide exhaust emission requirements for EPA Tier 2, EU Stage II, and Japan MOC Step 2 engine exhaust emission regulations and offers excellent performance levels.

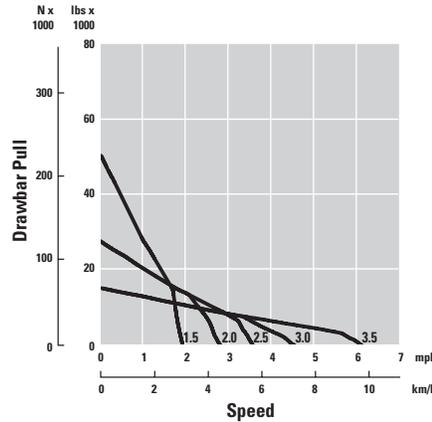


Cat 3126B Engine. The Cat 3126B engine is designed for easy maintenance and can be rebuilt for additional service lives. With the HEUI™ fuel system, injection pressure is independent of engine speed and provides maximum fuel delivery efficiency with low emissions.

Equipped with an electronic air inlet heater, the 3126B warms the air in the air inlet manifold, for easier starting and reduces white smoke on cold starts. Machines will automatically activate the timed air inlet heater prior to engine startup.

Turbocharged and Aftercooled.

A well-matched turbocharger and air-to-air aftercooler results in higher power while keeping rpm steady and exhaust temperatures low.



D5N Drawbar Pull

Torque Rise. The direct injection electronic fuel system provides a controlled fuel delivery increase as the engine lugs back from rated speed. This results in increased horsepower above rated power. A combination of increased torque rise and maximum horsepower improves response, provides greater drawbar pull and faster dozing cycles.

3126B Engine Features.

Major features include:

- Large displacement electronic engine with lower exhaust emissions and good cold start capability.
- Power train to engine link with controlled throttle shifting.
- Poly-Vee serpentine engine fan belt with auto tension feature eliminates the traditional three or four belt system.
- Oil and engine filter change intervals up to 500 hours after break-in.
- ATAAC cooling system.
- Aluminum bar plate radiator provides excellent cooling capability.
- The Multi Velocity Program (MVP) enhances machine performance in all applications and conditions.

Drive Train

Rugged, durable and reliable components deliver smooth, responsive power and lasting reliability. The Auto-shift and Auto-kickdown features enhance operator productivity.



Torque Converter. The D5N single-stage torque converter efficiently responds to changing load conditions by providing torque multiplication, therefore increasing drawbar pull. It provides protection to the drive train components by preventing shock loads from heavy dozing applications. The torque converter is efficiently matched to the power train components and provides the superior performance you need.

Auto-Shift/Auto-Kickdown. Auto-shift allows the operator to pre-select a forward and reverse speed range for easy, efficient directional changes.

Auto-shift settings include:

- 1.5 forward to 2.5 reverse.
- 2.5 forward to 2.5 reverse.
- 2.5 forward to 1.5 reverse.

Auto-kickdown allows the transmission to automatically downshift when significant load increases are detected.

Transmission. The proven planetary powershift transmission features five speeds forward and five speeds reverse and utilizes large diameter, high capacity, oil cooled clutches. To maximize the life of the transmission, the planetary design distributes loads and stresses over multiple speed ranges.

- Controlled throttle shifting regulates engine speed during high-energy directional shifts for smoother operation and longer component life.
- The transmission and bevel gear set are modular by design, and easily slide into the machine's rear case, even with the ripper installed.
- Forced oil flow lubricates and cools clutch packs to provide maximum clutch life.
- Load compensating shifting provides smooth engagement of the clutches under loaded conditions.

Multi Velocity Program (MVP).

The MVP provides unquestionable benefits for the tractor, owner and operator. MVP increases the number of speed ranges from three (1-2-3) to five (1.0-2.0-2.5-3.0-3.5), allowing the operator to perfectly match the tractor speed to all applications and ground conditions while reducing noise levels, within each speed range. The engine speed has been optimized, reducing fuel burn and lowering operating cost.

Steering Clutch and Brakes. Oil cooled, hydraulically actuated, large diameter plates and clutch discs provide higher torque capacity and increased service life.



Elevated Final Drive. Final drives are isolated from ground and work tool induced impact loads for extended power train life.

Electronic Steering and Transmission Controls.

The D5N provides Finger Tip Control for steering. Soft touch buttons, located on the steering controls, shift the electronically controlled transmission.

Electronic Clutch Pressure Control.

The D5N has an additional transmission shifting feature for added performance and operator comfort – the Electronic Clutch Pressure Control (ECPC). This unique feature provides smoother shifting by regulating and modulating the individual clutches based on current operating conditions.

Finger Tip Control

Finger Tip Control (FTC) combines steering, machine direction and gear selection into a single control system, which can be operated with one hand for enhanced operator comfort and increased productivity.



Five Speed Forward/Reverse Gear Selection. Five speed forward/reverse gear selection is achieved simply by pressing the yellow speed selection buttons. These buttons are integrated into the Finger Tip Control group.

- Automatic shifting features and reduced lever efforts provide easier upshift and downshift, increased operator comfort, reduced fatigue and shortened cycle times.
- Another feature aimed at operator comfort is electric vertical adjustment of the FTC control group. This helps position the operator's arm for efficient ergonomics.

Electronic Clutch and Brake Steering System. The electronic clutch and brake steering system incorporates low effort finger tip levers allowing the operator to work more precisely in close areas, around structures, obstacles and grade stakes. Pulling the left or right finger paddle causes the machine to turn according to the amount of paddle displacement.

Machine Direction. Machine direction is controlled by moving the machine's transmission forward/neutral/reverse direction lever. The middle position puts the machine transmission in neutral.

Steering Assist. Present on the new Multi Velocity Program (MVP), the Steering Assist improves turning performance, steering modulation and operator comfort.

1) Operator Station. State-of-the-art operator station has reduced sound levels, lower cab vibration and increased glass area.

2) Steering Control. Finger Tip Control (FTC) steering system provides simultaneous one-handed steering and transmission control.

3) Power Shift Transmission.

Proven planetary design provides fast smooth speed changes while distributing loads over multiple gears for long life.

4) Final Drive. Caterpillar elevated final drives provide isolation from ground or work tool impact loads, extending service life.

5) Clutch/Brake Assembly. Oil cooled large diameter clutch and brake disc provide long service life.

6) Engine. Caterpillar 3126B HEUI engine meets current engine exhaust emission regulations.

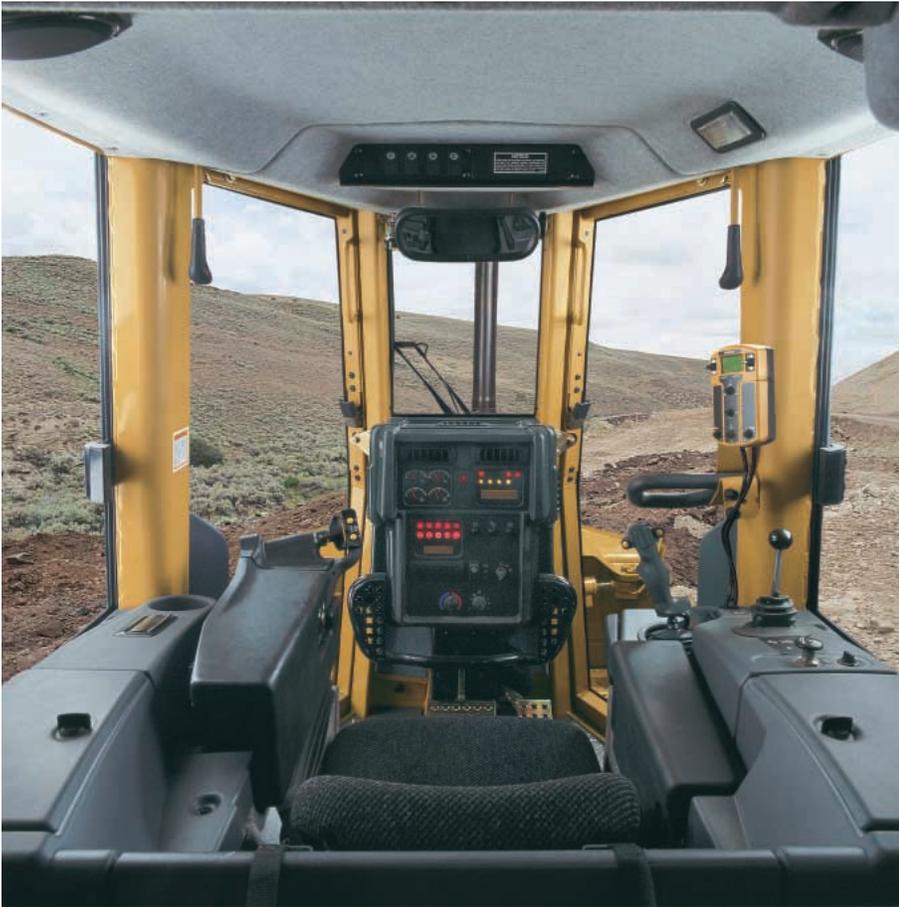
7) Radiator. Aluminum bar plate radiator provides excellent heat transfer.

8) Torque Converter. Efficient torque converter provides torque multiplication for increased drawbar pull and protects the drive train from shock loads.



Operator Station

State-of-the-art operator station has reduced sound levels, low cab vibrations and excellent visibility. The (optional) Caterpillar comfort series air suspension seat helps reduce operator fatigue. Cab and air conditioning are standard.



Cat C500 Comfort Suspension Seat.

Caterpillar C500 Comfort Series Air Suspended Seat is ergonomically designed to support the operator in various site conditions (optional).

- Seat is fully adjustable for maximum operator comfort, support and reduced operator fatigue.
- Seat cushion reduces pressure on the lower back and thighs while allowing unrestricted arm and leg movement.
- A standard lumbar adjustment provides lower back comfort.

Cab. The design is spacious and comfortable to promote shift-long productivity. Large glass window and door panels allow for excellent visibility to the blade, rear and sides of the machine. Door and window seal design allows for a fully pressurized low dust cab. Acoustic headliner material, and sound suppression foam panels reduce sound levels to 79 dB(A) according to the dynamic test procedure and conditions that are specified in ISO 6394:1998.

Individual windshield wiper controls are located in the front section of the headliner. The cooling system is incorporated into the cab structure providing good visibility to the rear of the machine.



Dash. The instrument panel, with easy to read analog gauges and warning lamps, keeps the operator aware of any potential problems. All gauges and readouts are easily visible in direct sunlight. HVAC controls and vents are conveniently located on the dash to provide climate control for the operator. Auto-shift and Auto-kickdown controls are located within easy reach. Footpads keep the operator stable and comfortable while working on slopes.

Electronic Monitoring System (EMS III).

EMS III provides the operator instant feedback on machine conditions and records performance data to help diagnose problems. It has flashable memory allowing system upgrades, as new technology and software become available. The system is compatible with Cat ET and CMS service tools.

EMS includes gauges and readouts for:

- Fuel level gauge
- Hydraulic oil temperature gauge
- Engine coolant temperature gauge
- Power train oil temperature gauge
- Engine oil pressure indicator
- Engine speed digital readout
- Transmission speed range indicator
- Hour Meter
- Odometer

Throttle Rocker Switch. A rocker switch control activates high or low idle with a touch of the finger. A decelerator pedal gives the operator full control of engine speed when the rocker switch is in the high idle position.



Work Tool Controls. Low effort pilot operated hydraulic controls make the D5N easy to operate and provide sure, precise blade control with less operator fatigue. Ergonomically shaped blade and ripper controls provide increased operator comfort during long shifts.

Other Features. The D5N operator station interior storage and amenities include:

- Adjustable armrest
- Cigarette ashtray
- Coat hook
- Cup holder
- Dome light
- Ergonomic pedals
- Inside door release
- Larger storage space on each side of seat
- Lunchbox tie-downs
- Padded consoles for side slope operations
- Radio (optional)
- Storage area behind seat for first-aid kit
- Two 12-volt plug-in receptacles
- Wide cab doors

AccuGrade[®] Laser and GPS Machine Control Guidance Systems

Advanced Laser and GPS technology improves operator accuracy, increases production and lowers operating costs.



AccuGrade Ready Option (ARO).

The AccuGrade Ready Option (ARO) provides a factory installed on-board platform for the AccuGrade Laser System or the AccuGrade GPS installation. All of the changes required to the electrical system, hydraulic system, blade, and cab are incorporated into the ARO. Mounting brackets added on the blade allow easy installation of the masts. Mounting brackets in the cab secure the in-cab display. Plug-in points inside the cab and on the front of the machine make it easy to install electronic components.

Advantages. Current earthmoving and fine grading processes are labor intensive, dependent on manpower and instruments. Maintaining consistent grade between stakes is challenging, even for experienced operators. The AccuGrade Laser and GPS Machine Control and Guidance Systems reduce labor requirements and help operators work to the design plan by accurately cutting, filling and reducing material cost.

Automatic Blade Control Feature.

Automatic control of the blade's lift and/or tilt, provides consistent accuracy with higher productivity by reducing blade control demands on the operator. Based on correction signals, a hydraulic control valve automatically raises or lowers the blade to maintain the correct edge elevation.

Applications. The AccuGrade Laser and GPS systems are designed for a wide range of construction earthmoving applications requiring tight tolerances and high productivity rates. Choosing whether to use a Laser or GPS system depends on the job site requirements.



AccuGrade Laser Grade Control

System. The laser system is ideal for fine grading sites with flat, single slope or dual slope surfaces such as industrial, commercial and residential building sites.

Laser System Components:

1) Laser Transmitter. An off-board laser transmitter (sold separately) emits a thin beam of light that rotates 360°, creating a grade reference over the work area.

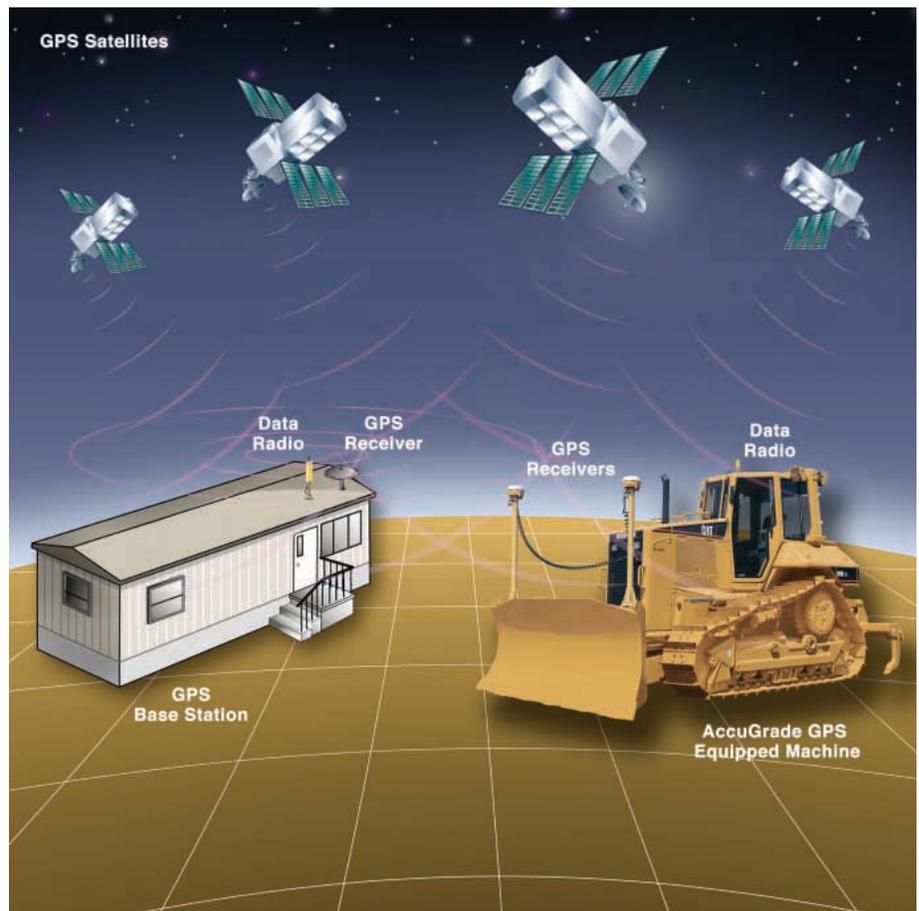
2) Laser Receivers. Digital laser receivers mounted on telescopic masts above the blade's cutting edge detect the laser beam. During grade set-up, with the cutting edge placed at finish elevation, the electric mast automatically positions the laser receiver to within 1.5 mm (0.06 in) of the center of the laser beam. As the blade moves above or below finish grade elevation during the grading process, correction information is sent to the in-cab display. One receiver is required for single dimension control (lift) and two receivers are required for two-dimensional control (lift and tilt).

3) Electric Masts. Blade mounted telescopic masts are electrically adjustable from inside the cab. They position the receivers above the cab for unobstructed laser reception.

4) Laser In-Cab Display. The in-cab display with easy-to-read grade indicator and backlit elevation display shows the operator all AccuGrade system information. The in-cab display arrows show the blade's position relative to grade and indicate cut or fill requirements of the work area. Push button operation allows the operator to easily switch from manual mode for rough grading to automatic mode for fine grading.

AccuGrade GPS Control System.

The AccuGrade Global Positioning System (GPS) is the best solution when the construction site involves contours, rather than single or dual slope planes. A GPS system compares the blade position to a three-dimensional computerized job site plan and signals the operator or hydraulic system to raise or lower the blade to achieve the design requirements.



GPS System Components:

GPS Base Station. An off-board GPS base station uses Real Time Kinematic (RTK) to provide a repeatable highly accurate reference for the mobile machines. One base station can support an unlimited number of machines at the specific jobsite.

GPS In-Cab Display. The in-cab display provides real-time operating information to the operator. Designed for simple operation, the 140 mm (5.5 in) color LCD daylight readable display with keypad allows operators to easily interface with the system. Settings and views can be easily configured according to operator preference. The display is designed for reliable performance in extreme operating conditions including shock, dust and moisture.

Weatherproof Design. All AccuGrade components are designed for dependable performance in harsh environments.

Support. Caterpillar AccuGrade Laser and GPS systems are available at your local Caterpillar Dealer.

Structure

*Engineered and built to give solid support in the most demanding applications.
Designed to last throughout the extended service life of the D5N.*



Frame and Castings. The D5N case and frames are built to absorb high impact shock loads and torsional forces. Castings are strategically located within the frame to add additional strength. Caterpillar uses robotic welding techniques in the assembly of the case and frames. This ensures quality and reliability throughout the structure.

- High strength steel mainframe resists impact shock loads.
- Computer-aided finite element analysis is used to evaluate and ensure high durability of the chassis by computer modeling it and identifying high stress area.
- Full scale structural testing to test integrity of the structures.
- Robotic welding provides deep penetration and consistency for long life, and reduces the chance for errors which may be made during manual welding.
- Precision top level machining for perfect alignment of bores and surfaces minimizes out of tolerance wear patterns and improves durability.
- Pivot shaft and pinned equalizer bar to maintain track roller frame alignment.

Equalizer Bar. The pinned equalizer bar gives the roller frames the ability to oscillate up or down to better match ground contours while providing maximum traction and operator comfort.



Roll Over Protection System. N-Series cab supports have been stiffened. Stiffer cab supports result in lower noise and vibration in the cab, providing the operator increased comfort.



Quality and Reliability.

- 4 mm (0.16 in) sheet metal on the side service access panels and rear guard.
- Stamped, rounded sheet metal corners add strength.
- Rubber isolation mounted fuel tank eliminates tank vibration and reduces potential stress fractures.
- Heavy-duty reinforced radiator guard is now standard.
- Heavy-duty rear guard for ripper.
- Clipped seals provide protection from dust and moisture for rear enclosure, door openings, and between ROPS post and rear enclosure.

Styling. Rounded machine shapes offers excellent visibility, accessibility and serviceability.

- Durable, heavy steel door panel covers.
- Pre-cleaner is below the hood for good visibility.
- Engine enclosure is tapered as it reaches the cab.
- Large amounts of glass area in cab.
- Controls are ergonomic for easier operation and better efficiency.

Undercarriage

The Caterpillar elevated sprocket undercarriage arrangements are designed for optimized balance and performance in fine grading to heavy dozing applications. Rugged design and proven structural manufacturing assure outstanding durability.



Elevated Final Drive.

- Isolates final drives from ground and work tool induced impact loads for extended power train life.
- Keeps sprocket teeth, bushings and final drives away from abrasive materials and moisture.
- Single reduction planetary final drives in the D5N provide long-lasting performance and durability.

Undercarriage Arrangements.

XL (Extra Long) arrangement

- Forward idler position provides more track on the ground and to the front of the tractor. It provides optimal balance, superior traction and blade control for finish grading.
- Long roller frame improves flotation in soft underfoot conditions.

LGP (Low Ground Pressure) arrangement

- Specially designed to work in soft and spongy conditions.

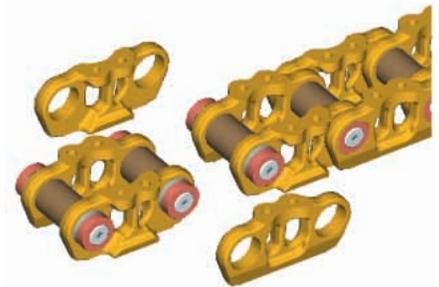
- Wide track shoes, long track frames and a wider gauge increase track contact area and reduce ground pressure for excellent flotation.

Complete Guarding. Caterpillar undercarriages are designed with full length guarding on top of the track roller frame. This prevents abrasive materials from falling down on moving parts.

Roller Frames. Roller frames are tubular, to resist bending and twisting.

- Roller frames attach to the tractor by a pivot shaft and pinned equalizer bar.

Oscillating Undercarriage. The pinned equalizer bar is saddle-mounted beneath the mainframe, allowing the roller frames and track to oscillate. The oscillation provides a steady working platform and smooth ride for the operator.



SystemOne™ Undercarriage.

Exclusively for Caterpillar machines the design extends system life and reduces operating costs.

- Track joint cartridge controls end-play and critical characteristics of sealed joint for improved reliability.
- Rotating bushing eliminates the need to turn bushings and reduces costly downtime.
- Taller roller flanges and link rails improve track guiding and eliminate pin end damage.
- Center tread idler eliminates idler link scalloping.
- May be used in any application.

Work Tools

Cat Work Tools and Ground Engaging Tools (G.E.T.) are designed to provide strength and flexibility to match the machine to the job, maximizing performance.



Caterpillar Blades. With superior moldboard and 4-cell structure design, Cat bulldozer blades hold up to the toughest job conditions. Our high-tensile strength blades resist torsional bending and deflection in tough applications.

- High-tensile strength, Cat DH-2™ steel, cutting edges resist bending.
- DH-3™ steel end bits maximize service life.

Variable Pitch Power Angle and Tilt Blade (VPAT). The VPAT blade gives the operator the ability to hydraulically adjust the blade lift, angle and tilt from the operator station.

- Manually adjustable blade pitch for optimum performance.

- Top corners of the blade are clipped for better operator viewing area. (XL arrangement only)
- C-Frame is solidly pinned to the mainframe for good blade control and eliminates blade motion due to track oscillation or side forces.
- C-Frame to tractor joint is sealed and lubricated with remote lines for extended service life and quiet operation.
- Large C-Frame tower bearings improve durability.
- Lubrication points are located at all pin joints to reduce wear.

VPAT Positions.

- 54° – maximum blade loads and best finish grading.
- 57.5° – good blade loads and general dozing.
- 60-62° – maximum blade penetration and reduced material retention on blade.

Foldable Blade (D5N XL only).

Designed to conform to the 3 m (9.8 ft) width transportation limit without blade removal. Allows a section on the left end of the blade to fold forward into transportation position: 2.55 m (8.36 ft).



Multi-Shank Ripper. The multi-shank radial ripper lets you choose one, two or three shanks depending on job conditions.

- Curved or straight ripper shanks are available.
- Excellent chassis durability in severe drawbar applications.

Drawbar. The D5N is equipped with a drawbar for pulling work tools such as:

- Disks
- Compactors
- Chopper wheels
- Retrieval of other equipment

Winch.

- Single joystick electronically controls both clutch and brake functions for excellent operator efficiency.
- Input clutches on PTO shaft reduce engine horsepower loss for fuel efficiency.
- Clutch engagement and brake release are automatically synchronized for smooth operation.
- Winch components can be serviced with winch mounted on tractor.

Check with your Caterpillar Dealer for details.

Forestry Sweeps. In forestry and land clearing applications where limbs and debris can damage a machine, optional sweeps are available for the N-Series. Sweeps help to shield critical components on the tractor such as hydraulic lines, exhaust stacks, cab windows and lights from damage.



Rear Counterweight. Rear counterweights are available through Custom Products and can be used to help the machine's balance in severe applications such as backing up slopes or heavy angle dozing.

Custom Products. The Special Product Group can help you with answers to your specific requirements by building the machine you need.

Serviceability

Modular design moves Caterpillar a generation ahead in simplifying service and maintenance.

Built-in Serviceability. Less service time means more working time. Major components are designed as modules and most can be removed without disturbing or removing other components.

Diagnostic Connector. Diagnostic connector allows Caterpillar dealers to quickly troubleshoot or access stored data with the use of Electronic Technician (Cat ET) or ECAP.

Diagnostics. Cat N-Series diagnostic and troubleshooting capabilities are among the best. The machine dashboard allows for quick identification of problems and its cause, utilizing a three level warning system.



Product Link. This option allows the customer or dealer to obtain machine diagnostics and location from their offices. Product Link provides updates on service meter hours, machine condition, machine location as well as integrated mapping/route planning.



Electronic Monitoring System.

The D5N features a flexible monitoring system that is easily upgraded by flashing software rather than replacing the module, reducing parts cost. As technology changes and new electronics and software become available, the monitoring system will allow the machine to be easily updated.

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

Modular Cooling System. Individual radiator core modules are easily serviced without major component removal.



Easy Engine Maintenance. Many parts can be rebuilt and are available as remanufactured components.

- Parent-metal block can be rebored twice and dry-sleeved.
- Connecting rods can be removed through cylinder tops.
- Camshaft followers and push rods can be replaced without removing camshaft.
- Extended oil and engine filter change intervals up to 500 hours.

Accessibility.

- Hinged engine doors to increase engine and service access.
- Remote-mounted filters located within easy reach during PM service.
- Air pre-cleaner filter condition monitor located in the cab for high visibility.
- Redesigned fuel tank for easier internal cleaning.
- Fast fuel tank provision added (attachment).
- Larger service panel doors.
- Diagnostic test ports added for quick troubleshooting.

Total Customer Support

Your Cat dealer offers a wide range of services that can be set up with a Customer Support Agreement. The Dealer can customize a plan for you, from PM service to total machine maintenance, allowing you to optimize your return on investment.

Product Support. Your Cat Dealer offers a wide range of services that can be set up under a Customer Support Agreement (CSA) when you purchase your equipment. The dealer will help you choose a plan that can cover everything from the machine and attachment selection to replacement. This will help you get the best return on your investment.

Remanufactured Components. Save money with remanufactured parts. You receive the same warranty and reliability as new products at a cost savings of 40 to 70 percent.

Service Capability. Whether in the dealer's fully equipped shop or in the field, you will get trained service technicians using the latest technology and tools.

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 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.



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

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

Maintenance. More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time of your purchase. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help avoid unscheduled repairs.

Engine

Engine Model	Cat 3126B DITAAC	
Flywheel Power	90.3 kW	121 hp
Net Power – Caterpillar	90.3 kW	121 hp
Net Power – ISO 9249	90.3 kW	121 hp
Net Power – SAE J1349	89.4 kW	120 hp
Net Power – EU 80/1269	90.3 kW	121 hp
Bore	110 mm	4.33 in
Stroke	127 mm	5 in
Displacement	7.2 L	439 in ³

- Engine Ratings at 2,000 rpm.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No derating required up to 4600 m (15,100 ft) altitude, beyond 4600 m (15,100 ft) automatic derating occurs.

Transmission

1.5 Forward	3.2 km/h	1.99 mph
2.0 Forward	4.6 km/h	2.86 mph
2.5 Forward	5.7 km/h	3.54 mph
3.0 Forward	7.9 km/h	4.91 mph
3.5 Forward	9.9 km/h	6.15 mph
1.5 Reverse	3.7 km/h	2.3 mph
2.0 Reverse	5.3 km/h	3.29 mph
2.5 Reverse	6.8 km/h	4.23 mph
3.0 Reverse	9.1 km/h	5.65 mph
3.5 Reverse	11.8 km/h	7.33 mph
1.5 Forward – Drawbar Pull	222.94 kN	50,118.91 lb
2.0 Forward – Drawbar Pull	122 kN	27,426.69 lb
2.5 Forward – Drawbar Pull	122 kN	27,426.69 lb
3.0 Forward – Drawbar Pull	66.96 kN	15,053.21 lb
3.5 Forward – Drawbar Pull	66.56 kN	15,053.21 lb

Service Refill Capacities

Fuel Tank	257 L	67.9 gal
Cooling System	37 L	9.77 gal
Final Drives (each)	6 L	1.6 gal
Hydraulic Tank	29.5 L	7.7 gal

Weights

Operating Weight Power Shift FTC – XL	12 738 kg	28,082 lb
Shipping Weight FTC – XL	12 459 kg	27,468 lb
Operating Weight Power Shift FTC – LGP	13 530 kg	29,828 lb
Shipping Weight FTC – LGP	13 251 kg	29,214 lb

- Operating Weight: Includes EROPS, A/C, lights, VPAT dozer, transmission, drawbar, engine enclosure, 3-valve hydraulics, 100% fuel, C500 Comfort Seat and operator.
- Shipping Weight: Includes EROPS, A/C, lights, VPAT dozer, transmission, drawbar, engine enclosure, 3-valve hydraulics, 5% fuel and C500 Comfort Seat.

Dimensions

Overall Length Basic Tractor (with Drawbar)	3.54 m	11 ft 8 in
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Undercarriage

Width of Shoe – XL	560 mm	22 in
Width of Shoe – LGP	760 mm	30 in
Shoes/Side – XL	41	
Shoes/Side – LGP	44	
Grouser Height	47 mm	1.85 in
Track Gauge – XL	1770 mm	70 in
Track Gauge – LGP	2000 mm	79 in
Track on Ground – XL	2388 mm	94 in
Track on Ground – LGP	2604 mm	103 in
Ground Contact Area – XL	2.67 m ²	4,146 in ²
Ground Contact Area – LGP	3.96 m ²	6,135 in ²
Ground Pressure	47.4 kPa	6.88 psi
Ground Pressure – XL	47.4 kPa	6.88 psi
Ground Pressure – LGP	34 kPa	4.93 psi
Track Rollers/Side – XL	7	
Track Rollers/Side – LGP	8	

Blades

Blade Type	VPAT	
XL VPAT – Blade Capacity	2.6 m ³	3.4 yd ³
XL VPAT – Blade Width	3077 mm	10 ft
LGP VPAT – Blade Capacity	2.6 m ³	3.4 yd ³
LGP VPAT – Blade Width	3360 mm	11 ft

Ripper

Type	Fixed Radial	
Number of Pockets	3	
Overall Beam Width	1951 mm	76.8 in
Beam Cross Section	165 × 211 mm	6.5 × 8.3 in
Maximum Penetration – XL	371 mm	14.6 in
Maximum Penetration – LGP	298 mm	11.7 in
Weight – With One Shank	758 kg	1,671 lb
Each Additional Shank	34 kg	75 lb

Winch

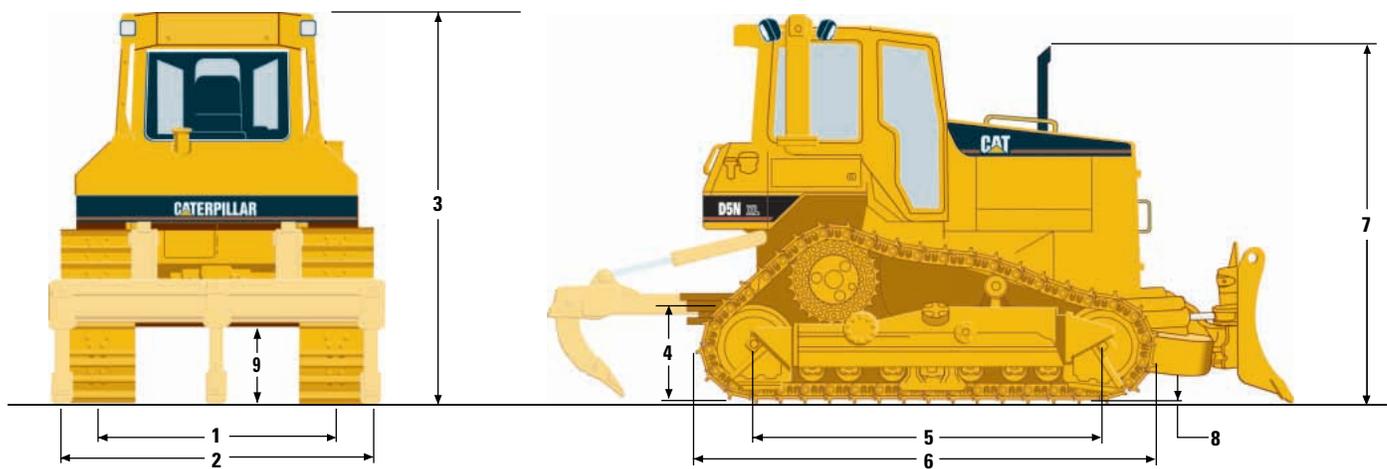
Winch Model	PA55	
Weight*	1180 kg	2,602 lb
Oil Capacity	74.1 L	19.6 gal
Winch and Bracket Length	1145 mm	45.1 in
Winch Case Width	975 mm	38.4 in
Drum Diameter	254 mm	10 in
Drum Width	315 mm	12.4 in
Flange Diameter	504 mm	19.8 in
Recommended Cable Size	16 mm	0.63 in
Optional Cable Size	19 mm	0.75 in
Drum capacity – Recommended cable	177 m	580 ft
Drum capacity – Optional cable	122 m	400 ft
Cable Ferrule Sizes – Outside Diameter	54 mm	2.13 in
Cable Ferrule Sizes – Length	65 mm	2.56 in

* Weight: Includes pump, operator controls, oil, mounting brackets and spacers.

Standards

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria SAE J397 OCT95, SAE J1040 MAY94, ISO 3164 1995, and ISO 3471:1994.
- FOPS (Falling Object Protective Structure) meets SAE J231 JAN81 and ISO 3449-1992 Level II.
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 and ISO 6396 is 79 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters according to the test procedures specified in SAE J88 JUN86, mid-gear-moving operation, is 82 dB(A) and 109 dB(A) for ISO 6395 for machines equipped with sound suppression attachment.
- Brakes meet the standard SAE J/ISO 10265 MARCH99.

Dimensions (approximate)



Tractor Dimensions

	XL		LGP	
1 Track gauge	1770 mm	70 in	2000 mm	79 in
2 Width of tractor				
With the following attachments:				
Standard shoes without blade	2330 mm	92 in	2760 mm	109 in
Standard shoes with VPAT blade angled 25°	2797 mm	110 in	3043 mm	120 in
3 Machine height from tip of grouser:				
With the following equipment:	—		—	
ROPS canopy	2992 mm	118 in	3036 mm	119.5 in
ROPS cab	2995 mm	118 in	3039 mm	119.6 in
4 Drawbar height (center of clevis)				
From ground face of shoes	486 mm	19 in	537 mm	21 in
5 Length of track on ground	2388 mm	94 in	2604 mm	103 in
6 Length of basic tractor (with drawbar)	3544 mm	140 in	3720 mm	146 in
With the following attachments, add to basic tractor length:	—		—	
Ripper	818 mm	32 in	818 mm	32 in
PA55 winch	381 mm	15 in	381 mm	15 in
VPAT blades, straight	1011 mm	40 in	1344 mm	53 in
VPAT blade, angled 25°	1542 mm	61 in	1779 mm	70 in
7 Height over stack from tip of grouser	2805 mm	110 in	2849 mm	112 in
8 Height of grouser	47 mm	1.85 in	47 mm	1.85 in
9 Ground clearance from ground face of shoe (per SAE J1234)	378 mm	14.9 in	422 mm	16.6 in

Bulldozer Specifications

		(XL) 5 VPAT Blade	(LGP) 5 VPAT Blade
Blade capacity (SAE J1265)	m ³	2.6	2.6
	yd ³	3.4	3.4
Blade width (over end bits)	mm	3077	3360
	in	121	132
Blade height	mm	1109	1127
	in	43.7	44.3
Digging depth	mm	430	415
	in	16.9	16.3
Ground clearance	mm	933	1001
	in	36.7	39.3
Maximum tilt	mm	460	491
	in	18.1	19.3
Weight (without hyd. controls)	kg	1932	2000
	lb	4259	4409

Ripper Specifications

		XL	LGP
Beam width	mm	1951	1951
	in	76.8	76.8
Cross section	mm	165 × 211	165 × 211
	in	6.5 × 8.3	6.5 × 8.3
Ground clearance under beam (raised)	mm	895	949
	in	35.2	37.4
Under tip at full raise	mm	482	536
	in	19	21.1
Number of pockets (teeth)		3	3
Maximum penetration	mm	350	298
	in	13.8	11.7
Maximum pryout force	N	191 260	192 600
	lb	43,034	43,335
Maximum penetration force (VPAT blade equipped power shift)	N	40 100	46 690
	lb	9023	10,505
Weight:			
With three teeth	kg	758	758
	lb	1671	1671
Each tooth	kg	34	34
	lb	75	75

Standard Equipment

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

ELECTRICAL

- 10-amp/12-volt converter
- 70-amp alternator
- Back-up alarm
- Diagnostic connector
- Horn
- Hour meter
- Integrated front lights
- Odometer

OPERATOR ENVIRONMENT

- Coat hook
- Cup holder (LH)
- Electric armrest
- Electronic Monitoring System (EMS III)
- Engine air cleaner service indicator in the cab
- Engine RPM display/speed range display
- Foot pegs for slope work
- Four gauge cluster
- FTC control for Clutch and Brake steering
- Hydraulic Pilot Control
- Power points, two 12-volt
- Pre-start coolant level monitoring system
- Product Link ready
- Radio ready, 12-volt
- Rear view mirror
- ROPS, FOPS cab with integrated A/C
- Seat belt, retractable 76 mm (3 in)
- Storage and literature compartment
- Transmission shift points selection function on dash

POWER TRAIN

- 3126B HEUI Caterpillar diesel engine with 24-volt starter
- Air-to-air aftercooler
- Auto-dust ejector with under hood air filter and pre-screener
- Automatic down-shift and kickdown transmission control
- Coolant, extended life
- Coolant sampling port
- Controlled throttle shifting
- Decelerating function
- Fan, blower
- Fuel/water separator
- High efficiency aluminum cooling package
- Load compensated shifting
- Selectable shift points
- Single poly-vee belt with auto belt tensioner
- Steering system: Clutch and Brake with FTC
- Five-speed planetary transmission with torque converter
- Multi Velocity Program

UNDERCARRIAGE

- Adjuster, hydraulic track
- Carrier rollers
- Guards, end track-guiding
- Heavy-duty sealed and lubricated tracks
- Lifetime lubricated track rollers and idlers
- Wider tread and taller flange idler profile

OTHER STANDARD EQUIPMENT

- 4600 meter altitude operation capability without derating
- Centralized remote mounted pressure taps for easy access and diagnostics
- Crankcase guard
- Ecology drains
- Extended service intervals (500 hours)
- Front pull device
- Hinged engine doors
- Hinged radiator grille
- Implement oil filter
- Keyed lockable enclosures
- Load sensing hydraulics
- Rigid drawbar
- S•O•SSM taps for engine, transmission and implement fluids
- Three-valve hydraulics for VPAT-Blade
- Transmission remote pressure taps

Optional Equipment

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

Air conditioner less off
Alternator, brushless
ARO (Laser/GPS)
Bulldozer – See Bulldozer Specifications chart for weights
Canopy
Heater, dash mounted for OROPS
Fan, reversible
Fan Group demand
Fast fill fuel tank
Lighting system, 4 lights
Product Link
Machine Security System (MSS)
Rotating beacon
Sound suppression (for cab)
Guards:
 Crankcase, heavy duty
 Fuel tank (for cab or canopy)
 Guard, rear, heavy duty
 Guiding Track XL/MS
 Guiding Track LGP/MS
 Guiding Guarding Track XL/HD
 Guiding Guarding Track LGP/HD
 Radiator, heavy duty, hinged grill
 Sand blast grid
Screens and Sweeps:
 Rear screen for EROPS cab
 Rear screen for OROPS canopy
 Sun screen
 Sweeps EROPS
 Sweeps OROPS
Hydraulics and Ripper:
 Four valve for 5VPAT blade and ripper (valve itself)
 Ripper, radial (with three curved teeth)
 Each optional straight tooth, replacing curved tooth

Seat:
 Air suspended C500 comfort series, cloth (for cab only)
 C500 comfort series, cloth, mechanical suspended
 (for cab only)
 C500 comfort series, vinyl, mechanical suspended
 Low back, vinyl
Starting aids:
 Engine coolant heater (dealer installed)
 Heavy-duty batteries
 Electric fuel priming pump
Track, pair, heavy-duty sealed and lubricated:
 XL arrangement, 41-sections:
 510 mm (20 in) MS/HD
 510 mm (20 in) ES/HD
 560 mm (22 in) ES/HD
 LGP arrangement, 44-sections:
 610 mm (24 in) MS/HD
 760 mm (30 in) self cleaning/HD
SystemOne Undercarriage:
 XL
 LGP
Track, pair, SystemOne:
 XL arrangement, 41-sections:
 560 mm (22 in) MS
 560 mm (22 in) ES
 LGP arrangement, 44-sections:
 760 mm (30 in) MS
Winch and fairleads:
 Winch, standard speed
 Winch, low speed
 Fairlead, 3 rollers
 Fairlead, 4 rollers

D5N Track-Type Tractor

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