D5N XL/LGP
Track-Type Tractor

Cat® 3126B engine	
Net power	86 kW/115 hp
Gross power	88 kW/119 hp
Operating weight	
LGP arrangement	13 250 kg
XL arrangement	12 820 kg
Blade capacity	
VPAT arrangement	2.6 m^3

D5N Track-Type Tractor

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

Power Train

✔ The large displacement, 3126B Caterpillar® engine features an electronic direct injection fuel system to maximize performance and provide the power you need to maximize production. The 3126B HEUI meets EU Stage II emission regulations. **pg. 4**

Drive Train

Rugged, durable and reliable components deliver smooth, responsive power and lasting reliability. **pg. 5**

Finger Tip Control

Finger Tip Control (FTC) combines steering, machine direction and gear selection into a single control system. These control functions can be simultaneously operated using only one hand for enhanced operator comfort and increased productivity. **pg. 6**

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. **pg. 12**

Serviceability

✔ The time between PM service intervals has been increased allowing more uptime. All major components, filters, and lube points are easily accessible and modular in design. The updated EMS III machine monitoring system has excellent diagnostic capabilities. **pg. 13**

Work Tools

Caterpillar offers a variety of work tools, which are designed to provide the strength and flexibility needed to match the D5N to any job. **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.

✔ *New feature*

Operator's Station

✔ State of the art operator's station has reduced sound levels, lower cab vibrations and good visibility. The (optional) Caterpillar comfort series air suspension seat helps to reduce operator fatigue. Cab and air conditioning are now standard. **pg. 8**

Styling

✔ Modern styling with rounded corners and tapered engine enclosures provide excellent visibility. Robust sheet metal exterior and heavy steel access door panels and guards are easily accessible and durable. **pg. 10**

Structure

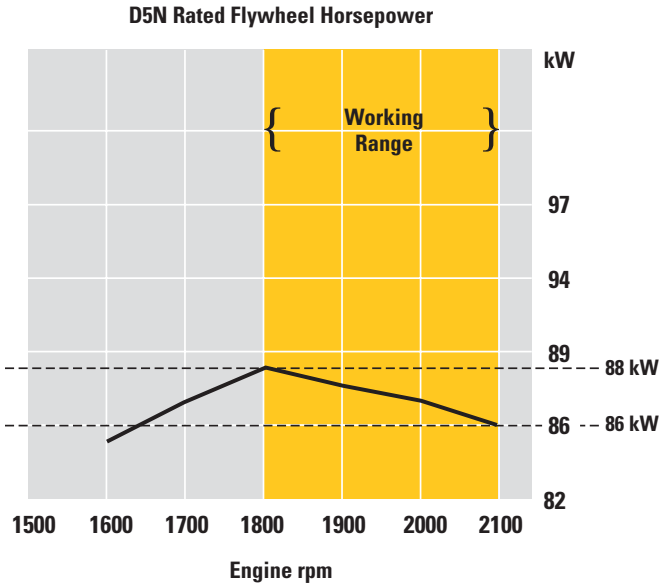
✔ Cast iron and heavy steel plates are welded to insure a rigid one piece case and frame structure. Bolted soft mounted cab supports reduce sound levels and vibration. Fuel and oil tank rubber isolation mounts eliminate vibration and reduce stress. **pg. 11**

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. 15**

Power Train

3126B HEUI™ meets EU Stage II emission regulations and offers excellent performance levels. Finger Tip Control provides smooth steering control. Auto-shift and Auto-kickdown deliver maximum machine productivity.



Cat 3126B HEUI Engine. Caterpillar electronic engines meet worldwide emission requirements for the EU Stage II regulations. With the HEUI Fuel system, injection pressure is independent of engine speed and provides maximum fuel delivery efficiency with low emissions. The Cat 3126B engines are equipped with an electronic air inlet heater. This 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 wellmatched turbocharger and air-to-air aftercooler results in higher power while keeping rpm steady and exhaust temperatures low.

Torque Rise. The direct injected 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. The 89 kW (119 hp) maximum flywheel power occurs at 1800 rpm when power is needed during the dozing work cycle.

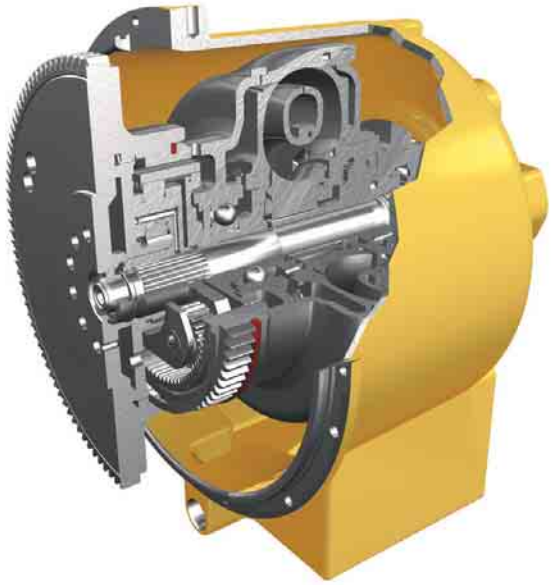
- Rated flywheel power 86 kW (115 hp).
- Maximum flywheel power 89 kW (119 hp).

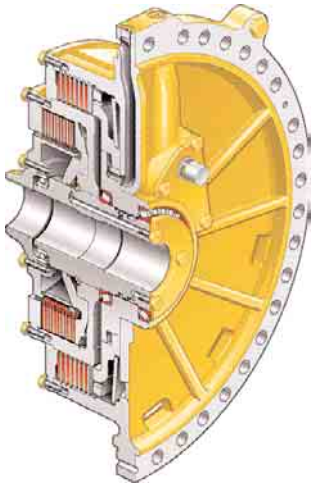
3126B Engine Features. 3126B major features include:

- Increased power to 86 kW (115 hp) for increased performance.
- Large displacement electronic engine with lower emissions and good cold start capability.
- Power train to engine link with electronic controlled throttle shifting.
- New Poly Vee serpentine engine fan belt with auto tension feature eliminates the traditional three to four belt system.
- Extended oil and engine filter change intervals up to 500 hours after break-in.
- ATAAC cooling system.
- Multiple Row Modular (IMRM) Radiator is less subject to plugging due to a unique radiator fin design which provides excellent heat transfer capability.

Drive Train

Rugged, durable and reliable components deliver smooth, responsive power and lasting reliability.





Torque Converter. The D5N single stage torque converter efficiently responds to changing load conditions by providing torque multiplication, therefore increasing drawbar power. It also provides protection to the drive train components by preventing shock loads from heavy dozing applications. This 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 gear for easy, efficient directional changes. Auto-shift settings include:

- First forward to second reverse.
- Second forward to second reverse.
- Second forward to first reverse.

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

Transmission. The proven planetary powershift transmission features three speeds forward and three 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 gears.

- 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.

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 steering. This system delivers the control operators need for all applications. 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.

Three Speed Forward/Reverse Gear Selection. Three 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 an optional 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.

Auto-shift and Auto-kickdown. Autoshift and Auto-kickdown 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, second forward to second reverse, and second forward to first reverse.
- Auto-kickdown automatically downshifts from any gear when the machine detects a significant increase in load. 6 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.

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

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

3 Powershift 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 EU Stage II emission regulations.

7 Radiator. Improved Multiple Row Modular (IMRM) radiator is less subject to plugging and 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's station has reduced sound levels, lower cab vibrations and excellent visibility. The (optional) Caterpillar comfort series air suspension seat helps reduce operator fatigue. Cab and air conditioning are now offered as standard.

Cab. The cab incorporates large glass window and door panels. This allows for excellent visibility to the blade, rear and sides of the machine. New door and window seal design allows for a fully pressurized dust free cab. Low acoustic headliner material, and sound suppression foam panels reduce sound levels to below 75 dB(A) when measured per ISO 6394:1998. The cooling system is now incorporated into the cab structure providing good visibility to the rear of the machine. Individual windshield wiper controls are located in the front section of the headliner. The new design is spacious and comfortable to promote shift-long productivity.

Cat C500 Comfort Suspension Seat. Caterpillar C500 Comfort Series Air Suspended Seat is ergonomically designed to support the operator in all 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 improves lower back comfort.

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 of the operator. New footpads keep the operator stable and comfortable during side slope applications.

Ergonomic Work Tool Controls. Ergonomically shaped blade and ripper controls have improved lever efforts for reduced operator fatigue. The voltage converter provides two 12 volt power supplies.

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 electronics become available. This system is compatible with Cat ET and CMS service tools. EMS includes the following gauges and readouts:

- 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 gear indicator.

Styling

Modern styling with rounded shapes and tapered hood enhances operator visibility. The N-Series combines eye-catching styling with solid, reliable performance.

Styling. New styling with 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 amount of glass area in cab.
- Controls are ergonomic for easier operation and better efficiency.

Accessibility and Serviceability.

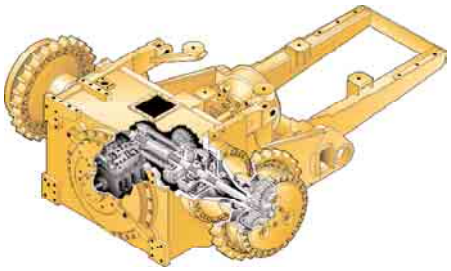
- Hinged engine doors to increase engine and service access.
- Remote-mounted filters located within easy reach during PM service.
- Air pre-cleaner filter condition monitor located in the cab for high visibility.
- Redesigned fuel tank for easier internal cleaning.
- Fast fuel tank provision added (attachment).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

Quality and Reliability.

- Doubled 4 mm sheet metal on the side service access panels and rear guard.
- Stamped, rounded sheet metal corners add strength.
- Rubber isolation mounted fuel and oil tanks eliminate tank vibration and reduce 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
  - between ROPS post and rear enclosure

Structure

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

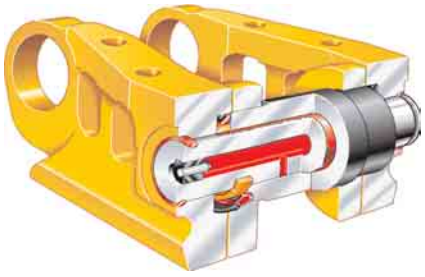


Frame and Castings. The D5N case and frames are built to absorb high impact shock loads and torsional forces. Castings are strategically located within the frame to add additional strength. Caterpillar uses robotic welding techniques in the assembly of the case and frames. This insures quality and reliability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

- High strength steel mainframe resists impact shock loads.
- Computer-aided finite element analysis is used to evaluate and ensure durability.
- Full scale structural testing to test integrity of the structures.
- 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 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 Systems. N-Series cab supports have been stiffened. Stiffer ROPS supports result in lower noise and vibration in the cab, providing the operator increased comfort.



Rotating Bushing Track. Rotating Bushing Track is designed to extend system life and lower costs in highly abrasive low to moderate impact applications.

RBT features bushings which rotate when in contact with the sprocket, greatly reducing bushing and sprocket wear. This design eliminates bushing turn maintenance expense and sprocket replacement costs.

Rotating Bushing Track is available as optional undercarriage.

Undercarriage

The Caterpillar elevated sprocket undercarriage arrangements are designed for optimized balance and best possible performance in fine grading to heavy dozing applications.

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.
- Caterpillar uses single reduction planetary final drives in the D5N providing long-lasting performance and durability.

Final Drives and Associated Components.
- Final drives are raised above the work area where moisture and abrasive conditions can cause premature damage and failures.
- Isolates them from ground-induced impact loads.

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 provides good flotation in soft underfoot conditions.

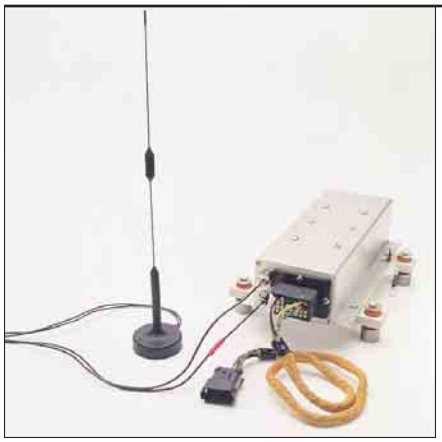
LGP arrangement
- Specially designed to work in soft and spongy conditions.
- Wide track shoes, long track frames and a wider gauge increase track contact area and reduce ground pressure for excellent flotation.

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.
- The recoil system is sealed and lubricated.

Serviceability

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



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.

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.

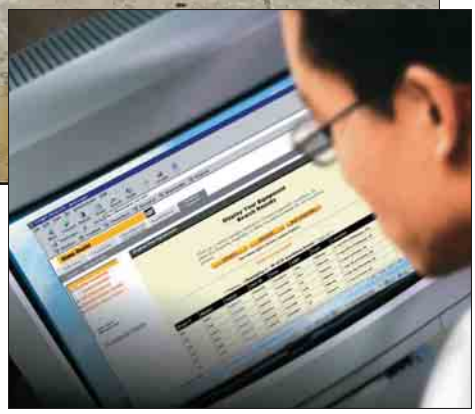
Diagnostic Connector. Diagnostic connector allows Caterpillar dealers to quickly troubleshoot the D5N or access stored data with the use of Electronic Technician (Cat ET).

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.



Electronic Monitoring System. The D5N features a more 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, this upgraded monitoring system will allow the machine to be easily updated.

Work Tools

Cat D5N work tools are designed to provide strength and flexibility to match the machine to the job.

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's 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 main frame for good blade control and eliminates blade motion due to track oscillation or side forces.
- C-Frame has been moved closer to the front of the machine to improve fine grading and blade control.
- C-Frame to tractor joint is sealed and lubricated with remote lines for extended service life and quiet operation.
- Large C-Frame tower bearings have been added to improve durability.
- Lubrication points are located at all pin joints to reduce wear.

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 and can be used to help the machines balance in severe applications such as backing up slopes or heavy angle dozing.

Winch.

- Single lever control actuates 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 winch selection details.

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

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

Multi-Shank Ripper. The multi-shank parallelogram 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.

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 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.

3126B Engine

Gross Power	88 kW/119 hp
Net Power	
ISO 9249	86 kW/115 hp
EU 80/1269	86 kW/115 hp
Bore	110 mm
Stroke	127 mm
Displacement	7.2 Liters

- Engine Ratings at 2100 rpm
- The engine is certified according to the EU Directive 97/68/EC, Stage II
- 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 altitude, beyond 4600 m automatic derating occurs.

Transmission

Forward	km/h
1	3.1
2	5.4
3	9.1
Reverse	
1	3.8
2	6.7
3	11.3

Service Refill Capacities

	Liters
Fuel Tank	257
Cooling System	48
Final Drives (each)	6
Hydraulic Tank	29.5

Blades

Blade type	VPAT

Blade capacity and Blade width
see Ripper Specifications on pg. 18.

Brakes

- Brakes meet the standard ISO 10265 MARCH99.

Standard Undercarriage

Number Shoes Side	
XL	41
LGP	44
Track Rollers/Side	
XL	7
LGP	8
Width of Shoe	
XL	560 mm
LGP	760 mm
Track on Ground	
XL	2388 mm
LGP	2604 mm
Track Gauge	
XL	1770 mm
LGP	2000 mm
Ground Contact Area	
XL	4146 m^2
LGP	6135 m^2
Ground Pressure (Standard)	
XL	46 kPa
LGP	32 kPa

Multi-Shank Ripper

Type	Fixed Parallelogram
Beam width	1951 mm
Beam cross section	165 x 211 mm
Number of pockets	3

Winch Specifications

Winch Model	PA 55
Weight	1180 kg
Winch and Bracket Length	1120 mm
Winch Case Width	975 mm
Flange Diameter	504 mm
Drum Width	330 mm
Drum Diameter	254 mm
Drum Capacity - 19 mm	122 m
Ferrule Size (O.D.x Length)	54 x 65 mm
Oil Capacity	74 Liters

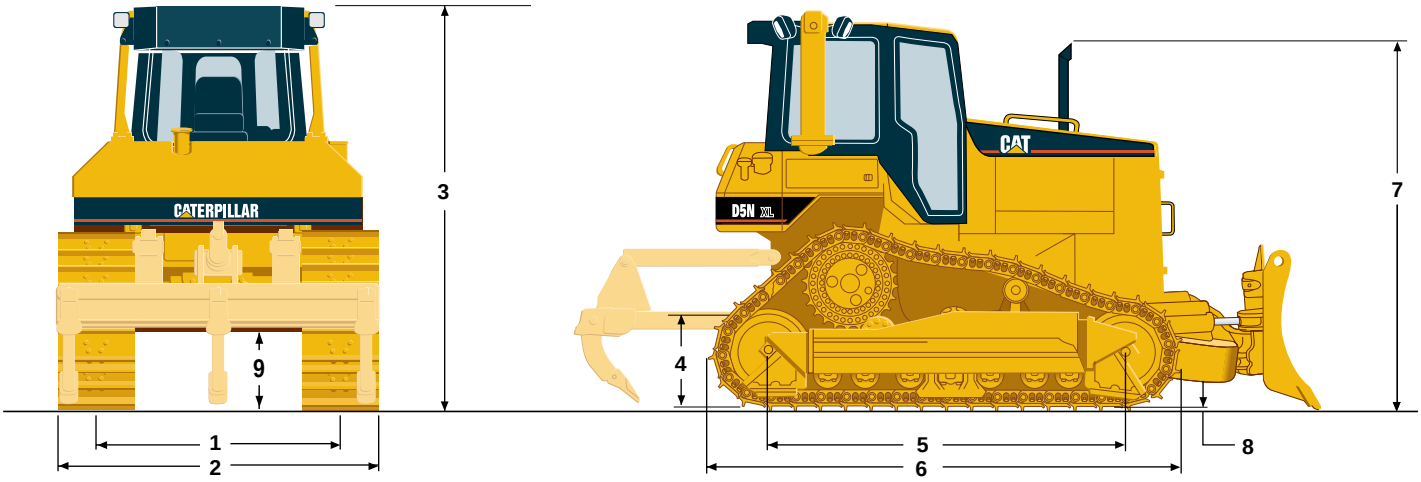
Weights

Operating Weight Power Shift	
Finger Tip Control (FTC)	
XL	12 818 kg
LGP	13 252 kg
Shipping Weight	
Finger Tip Control (FTC)	
XL	12 541 kg
LGP	12 975 kg

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

Dimensions

(approximate)



ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471-1994.
- FOPS (Falling Object Protective Structure) meets ISO 3449-1992 Level II.

Sound

- The operator sound level measured according to the procedures specified in ISO 6394:1998 is 75 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 labeled sound power level is 108 dB(A) measured according to the test procedures and conditions specified in 2000/14/EC.

		XL	LGP
		mm	mm
1	Track gauge	1770	2000
2	Width of tractor		
	With the following attachments:		
	Standard shoes without blade	2330	2760
	Standard shoes with VPAT blade angled 25°	2797	3043
3	Machine height from tip of grouser:		
	With the following equipment:		
	ROPS canopy	2992	3036
	ROPS cab	2995	3039
4	Drawbar height (center of clevis)		
	From ground face of shoes	486	537
5	Length of track on ground	2388	2604
6	Length of basic tractor (with drawbar)	3544	3720
	With the following attachments, add to basic tractor length:		
	Ripper	818	818
	PA55 winch	381	381
	VPAT blades, straight	1011	1344
	VPAT blade, angled 25°	1542	1779
7	Height over stack from tip of grouser	2805	2849
8	Height of grouser	47	47
9	Ground clearance from ground face of shoe (per SAE J1234)	378	422

Standard Equipment

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

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

Operator Environment
Coat hook
Cup holder
Electric armrest
Electronic Monitoring System (EMS III)
Electronic travel speed and gear limiter
Engine air cleaner service indicator in the cab
Engine RPM display/gear display
Foot pegs for slope work
Four gauge cluster
FTC control for Clutch and Brake steering
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
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
Load compensated shifting
Modular radiator (High Performance Perforated Fins IMRM)
Selectable shift points
Single poly-vee belt with auto belt tensioner
Steering system: Clutch and Brake with Finger Tip Control (FTC)
Three-speed planetary transmission with torque converter

Undercarriage
Adjuster, hydraulic track
Carrier rollers
Guards, end track-guiding
Heavy-duty sealed and lubricated tracks
Idlers, lifetime lubricated
Rollers, lifetime lubricated track
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 grill
Implement oil filter
Keyed lockable enclosures
Load sensing hydraulics
Rigid drawbar
S•O•S℠ taps for engine, transmission and implement fluids
Three valve hydraulics for VPAT dozer
Transmission remote pressure taps

Ripper Specifications

		XL	LGP
Beam width	mm	1951	1951
Cross section	mm	165 x 211	165 x 211
Ground clearance under beam (raised)	mm	895	949
Under tip at full raise	mm	482	536
Number of pockets (teeth)		3	3
Maximum penetration	mm	350	298
Maximum pryout force	kN	191	193
Maximum penetration force (VPAT blade equipped power shift)	kN	40	47
Weight:			
With three teeth	kg	758	758
Each tooth	kg	34	34

Optional Equipment

Approximate changes in operating weights.

	kg
Air conditioner less off	-51.4
Alternator, brushless	0.34
Bulldozers - see Bulldozer Specifications below	
Canopy	-155
Heater, dash mounted for OROPS	18.5
High Ambient Temp	3
Fan, reversible	7
Fast fill fuel tank	7
Lighting system, 4 lights	18.2
Product link	4
Protective MSS	2.5
Rotating beacon	3.3
Sound suppression (for cab)	18
Guards:	
Crankcase, heavy duty	63
Fuel tank (for cab or canopy)	69
Guard, rear, heavy duty	5
Guiding Track XL/MS	119
Guiding Track LGP/MS	70
Guiding Guarding Track XL/HD	192
Guiding Guarding Track LGP/HD	155
Radiator, heavy duty, hinged grill	29
Sand blast grid	14.8
Screens and Sweeps:	
Rear screen for EROPS cab	81
Rear screen for OROPS canopy	53
Sun screen	5
Sweeps EROPS	120
Sweeps OROPS	140
Hydraulics and Ripper:	
Four valve for 5 VPAT bulldozer and ripper (valve itself)	14.74
Ripper, radial (with three curved teeth)	758
Each optional straight tooth, replacing curved tooth	34

	kg
Seat, with adjustable armrest:	
Air suspended C500 comfort series, cloth (for cab only)	52.4
C500 comfort series, cloth, mechanical suspended (for cab only)	53.6
C500 comfort series, vinyl, mechanical suspended	53.6
Low back, vinyl	48.7
Starting aids:	
Engine coolant heater (dealer installed)	1
Heavy duty batteries	0
Priming pump	0
Track, pair, heavy duty sealed and lubricated:	
XL arrangement, 41-section:	
510 mm (20") MS/HD	-170
510 mm (20") MS/RBT	-116
510 mm (20") ES/HD	80
560 mm (22") MS/RBT	-20
560 mm (22") ES/HD	200
LGP arrangement, 44-section:	
610 mm (24") MS/HD	-220
610 mm (24") MS/RBT	-250
760 mm (30") MS/RBT	0
762 mm (30") self cleaning/HD	348
Winch and fairleads:	
Winch, standard speed	1179
Winch, low speed	1190
Fairlead, 3 rollers	322
Fairlead, 4 rollers	340

ES: Extreme service shoes
MS: Moderate service shoes
HD: Heavy-duty link track
RBT: Rotating bushing track

Bulldozer Specifications

		5 VPAT Blade	
		XL	LGP
Blade capacity (SAE J1265)	m^3	2.6	2.6
Blade width (over end bits)	mm	3077	3360
Blade height	mm	1109	1127
Digging depth	mm	430	415
Ground clearance	mm	933	1001
Maximum tilt	mm	460	491
Weight (without hydraulic controls)	kg	1932	2000

D5N Track-Type Tractor

HEHT5497 (01/2003) hr

CATERPILLAR®