CAT®

D7H
SERIES II

TRACK-TYPE TRACTOR

- **Exclusive differential steer (optional)** — continuous power to both tracks for efficient control.
- **Exceptional performance** — unequalled traction and balance — high lugging power to build bigger loads faster.
- **Reliable/durable** — built to withstand severe working conditions.
- **Easy maintenance and repair** — fast daily checks, modular components reduce downtime.
- **Operating ease** — efficient, comfortable work environment.
- **Total Customer Support System** — unmatched in the industry!

Cat® 3306 turbocharged diesel Engine	
Gross power	172 kW/231 HP
Flywheel power	160 kW/215 HP
Operating weight up to	
Standard machine	29 738 kg/65,560 lb
LGP arrangement	31 044 kg/68,440 lb
Blade capacity	
Standard machine	8.34 m³/10.91 yd³
LGP arrangement	5.91 m³/7.73 yd³

Featured machines may include additional equipment applicable only for special applications. See your authorized Caterpillar dealer for available options.

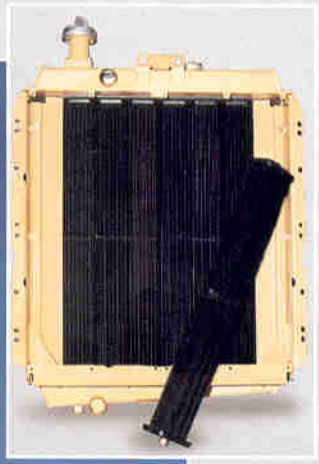
FEATURES

Series II

Features maximize durability, reliability and productivity of the machine.

- **Dual twist tiller control** provides easy, efficient operation on units equipped with differential steering by integrating steering, directional changes and gear selection functions all into one control. This new control offers ease of operation and increased productivity.
- **Adjustable arm rests** move up and down for added operator comfort.
- **Fully adjustable seat** for greater operator comfort and productivity.
  - Three-position cushion tilt.
  - Seven-position fore/aft adjustment for added leg comfort.
  - Adjustable seat height.
  - Adjustable seat back angle with removable upper back support.
  - Adjustable armrest mounted on seat frame moves with seat adjustment.

- **Open-ROPS heater option** with two-speed blower fan provides approximately 13 356 kCal/**53,000 BTUs** for added operator comfort in cold weather.
- **New rigid shear track seals** provide excellent sealing and long wet track joint life.
- **LGP dozer spill plates** reduce material spillage over top of the blade providing good protection from damage to radiator.
- **Halogen lamp lighting** for excellent visibility when lighting is required.
- **Multi-row module radiator** allows more air flow due to reduced fin density, decreasing the susceptibility to plugging by dust, fibrous or fluffy material. The modular design offers easy servicing, lower repair costs and less downtime.

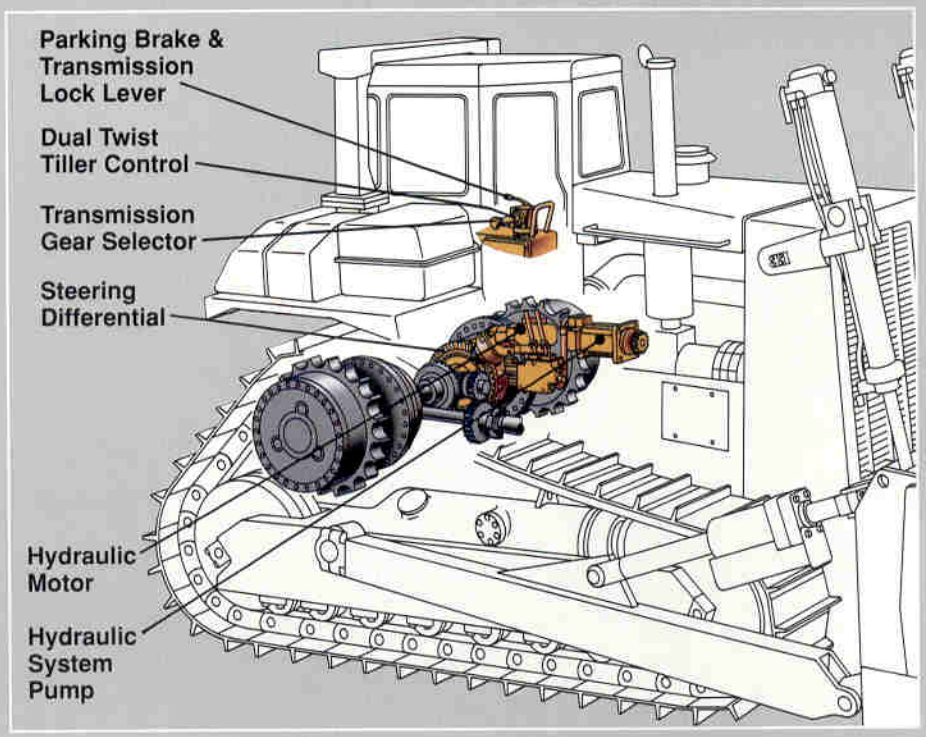


FEATURES

Differential Steering

Drives through every turn with full power to both tracks for bigger loads at higher speeds. (Optional — power shift arrangement only)

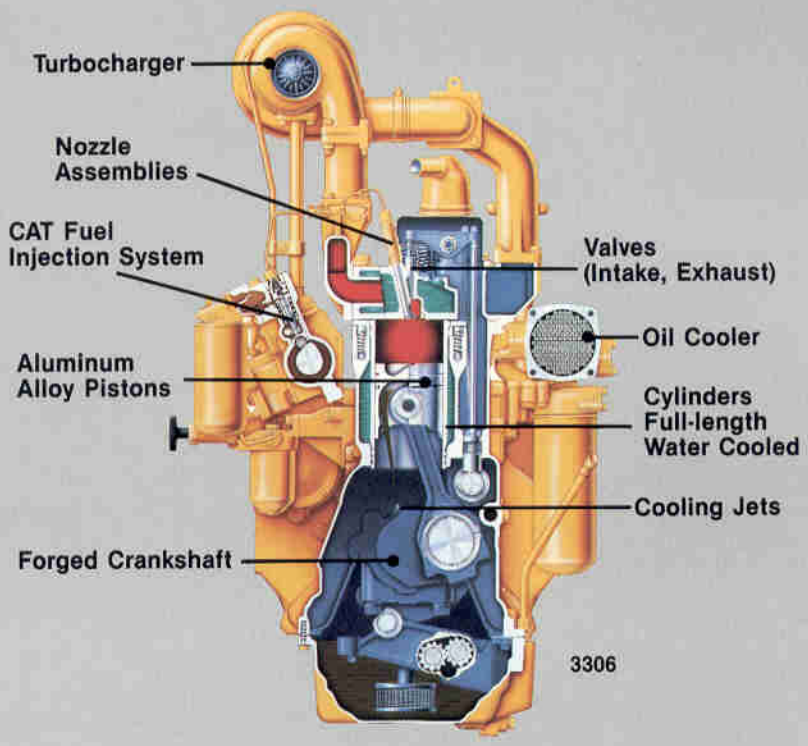
- **Uninterrupted power** directed to both tracks through hydraulically actuated planetary differential.
- **Turns accomplished** by speeding up one track, while equally slowing the other — speed difference turns tractor.
- **Operator maintains** smooth, precise turning with one lever.
- **Provides excellent steering control in tight areas**, near structures, or when following grade stakes or finished ground contours.
- **Greater load, power and speed control** where the underfooting is soft or sloppy, because both tracks drive to maintain traction.
- **Faster cycles** due to quick forward/reverse response, steering/directional control.



Caterpillar® Diesel Engine

Reliable...durable...efficient!

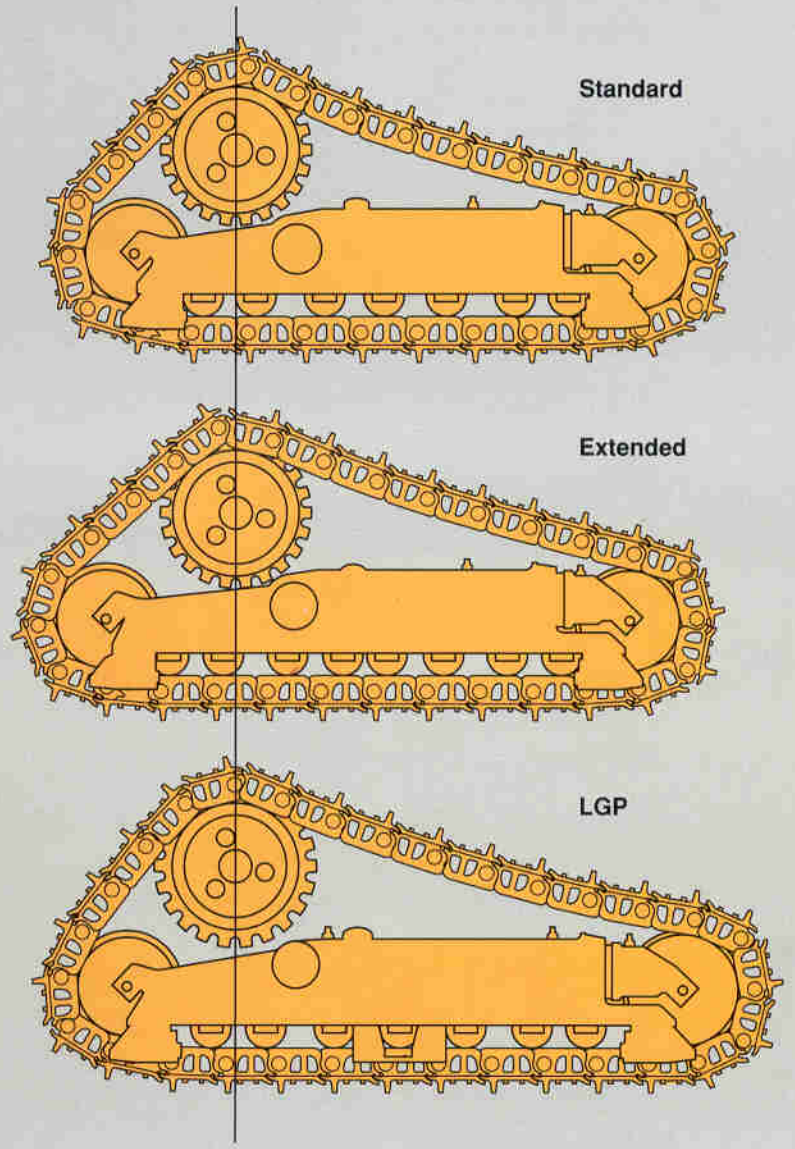
- **Turbocharged 3306 diesel engine** delivers plenty of power for quick response, big loads.
- **Large displacement**, high torque rise and low RPM rating for low stress, long life.
- **High torque rise** offers superior lugging — keep moving through tough spots without downshifting.
- **Direct fuel injection** precisely meters fuel for maximum productivity per unit of fuel.
- **Good weight-to-horsepower ratio** — faster loading, bigger loads, shorter cycle times.
- **Quick, easy service access** and inspection.



Elevated Sprocket Undercarriage

Caterpillar's elevated sprocket tractors set the standard in traction, durability and ride.

- **Final drives and associated power train components** raised above the work area... isolating them from ground-induced impact loads, as well as implement and roller frame alignment loads — extends power train component life.
- **Wide track gauge**, long track on ground provides a balanced platform for superior traction, dozer control and side slope stability for finish grading.
- **Machine balanced** for high dozer production.
- **Ample track to the rear** counter-balances weight forward, increases traction, assures high dozing forces.
- **The extended roller frame's "weight forward" balance** with additional track to the rear means it's built to excel in skidding or other drawbar applications.
  - The added track on the ground provides an excellent platform for finish grading.

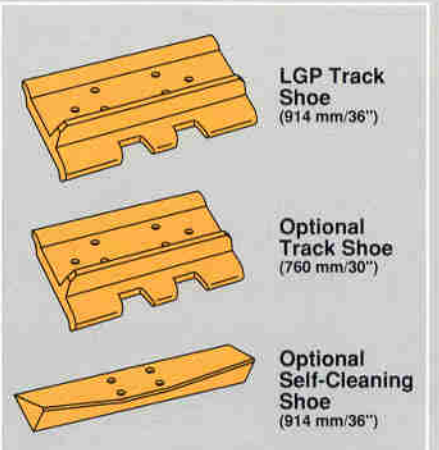


Low Ground Pressure...

the D7H LGP gives you optimum balance and stability with excellent slope capabilities.

- **The D7H LGP** has the same basic upperstructure as the standard model, but the roller frames are extended both forward and to the rear to provide a more neutral center of gravity and even weight distribution desired in an LGP environment.
- **The D7H LGP** has more track on ground...plus a wider track gauge which allows use of larger shoes. This improves stability in side slope applications and low ground pressures for excellent flotation in wet underfoot conditions.

- **Caterpillar LGP track shoes**
  - Single-grouser shoes, made from heat-treated, cast steel, 914 mm/**36"**, are standard.
  - Wide gauge shoe option, 760 mm/**30"**, offers excellent stability and reduced ground pressure for use in dryer ground conditions.
  - Self-cleaning shoes available for improved performance in cohesive material. Shoes reduce material buildup for better traction.



FEATURES

Work Tools

Caterpillar work tools include tailored dozers, rippers and winches for efficient, high production.

Blades

- **Choice of S, SU, U and A blades** for optimum job match-up on standard gauge machine.
- **High blade heel clearance** and sharp cutting edge angle (S, SU, U blades) — penetrates tough material easily.
- **Cat moldboard profile** (S, SU, U blades) loads easily, retains load.
- **Tag link dozer stabilizer** (S, SU, U blades) — excellent balance, better implement control and tractor maneuverability.
- **The A blade** is mounted to a C-frame, using a pinned connection — permits any combination of blade angling and tilting, left or right.

Ripper

- **Multi-shank parallelogram ripper** lets you choose up to three shanks, depending on job conditions.
- **Caterpillar design** allows the operator to see the ripper tip — provides ample throat clearance and significantly high penetration and pryout forces.
- **Not available** with LGP machines.

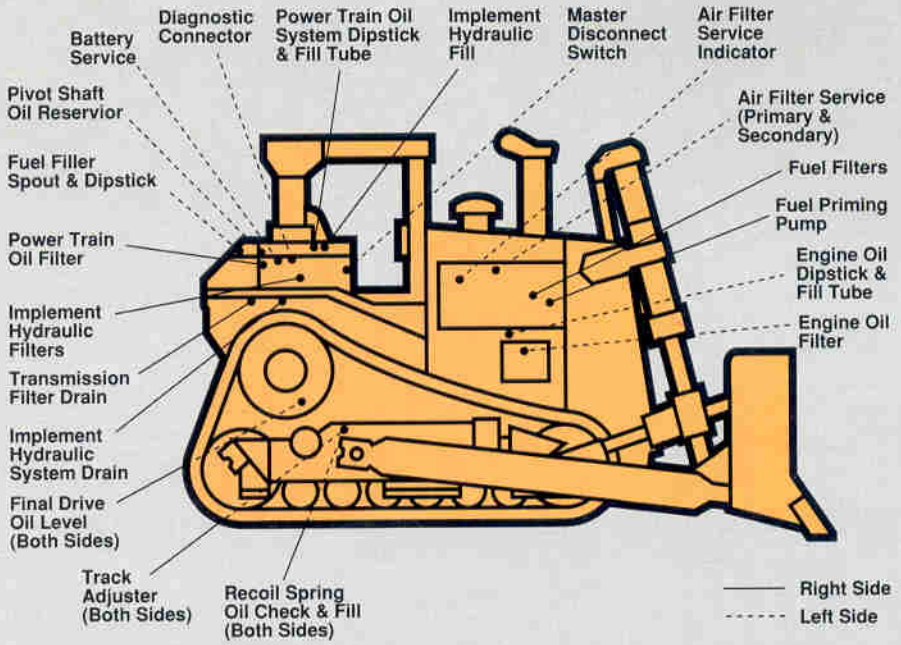
Winch

- **Single lever** controls all winch functions — actuates both clutch and brake to improve operator efficiency.
- **Input clutches on engine PTO shaft** reduce engine horsepower losses, provide fuel efficiency — economy.
- **Clutch engagement and brake release** are automatically synchronized for smooth operation.
- **Winch components** can be serviced with winch mounted on tractor.

Service

Cat's modular design concept moves the elevated sprocket tractors a generation ahead in simplified service and repair.

- **Major components** are easily accessible, removable as single units.
- **Modular design** permits fast removal, installation.
- **Pre-testing modular components** before installation or after repair assures quality.
- **Grouped service points**, easy access to service areas make routine checks fast, convenient.
- **Diagnostic connector** for special dealer tool enables fast troubleshooting of starting and charging problems.

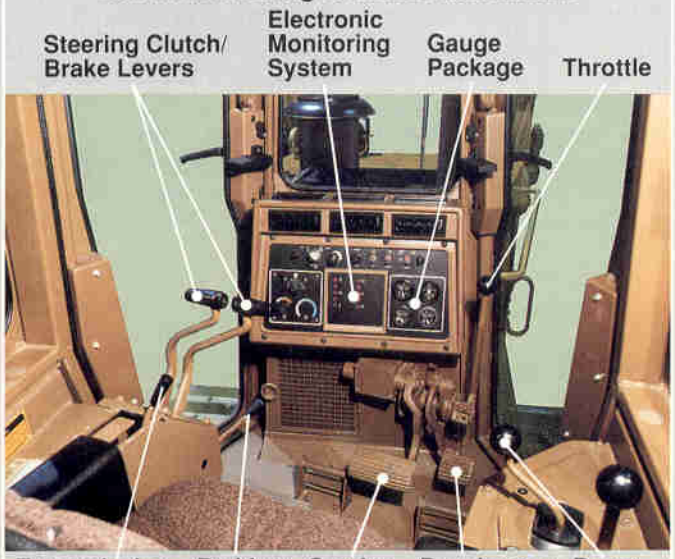


Operator's Station

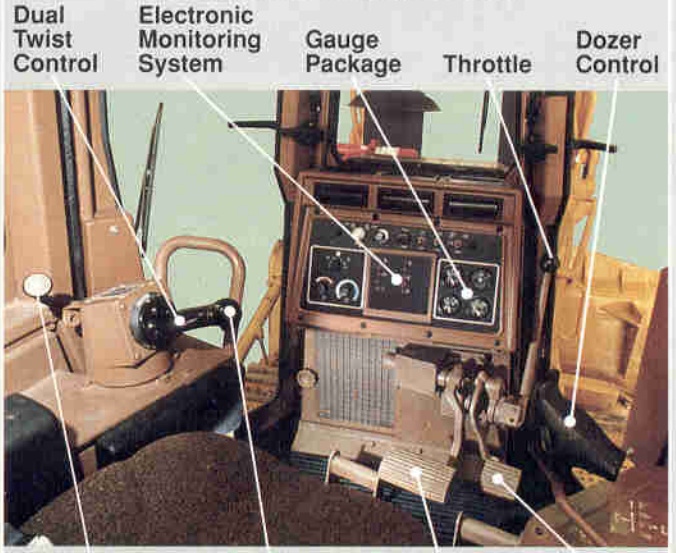
Comfort and convenience designed into the control station for an efficient and productive operator.

- **Isolation-mounted cab** (optional), with air pressurizer and heater, reduces noise and vibration for shift-long comfort.
- **Easily accessible, low-effort controls** provide sure, precise maneuvering, less operator fatigue.
- **Fully adjustable suspension seat** angled 15° to right, tapered fuel tank and hood allow exceptional front and rear visibility.
- **Instrument panel** includes standard gauge group and Electronic Monitoring System (EMS) for monitoring critical machine functions.
- **Dual twist tiller control** provides easy, efficient operation on units equipped with differential steering by integrating steering, directional changes and gear selection functions all into one control. This new control offers ease of operation and increased productivity.

Cab with steering clutches and brakes



Cab with differential steering



Total Customer Support

Unmatched in the industry!

- **Parts availability** — Most Cat parts are immediately available off the shelf. Dealer parts availability is backed by Cat's computer-controlled, emergency search system.
- **Service Capability** — Whether in the dealer's fully equipped shop or in the field, you'll get trained service people using the latest technology and tools.
- **Machine management services** — Cat dealers help manage equipment investments with:
  - Custom Track Service.
  - Effective preventive maintenance programs.
  - Diagnostic programs like Scheduled Oil Sampling and Technical Analysis.
  - Information to make the most cost-effective repair option decisions.
  - Customer meetings, training for operators and mechanics.
- **Exchange components for quick repairs** — low-cost components assure maximum, cost-effective uptime.
- **Literature support** — Easy-to-use operation and maintenance guide helps you get the full value out of your equipment investment.

SPECIFICATIONS

Caterpillar Engine

Gross power .....172 kW/**231 HP**
Flywheel power.....160 kW/**215 HP**
(Kilowatts (kW) is the International System of Units equivalent of horsepower.)

*Net power at the flywheel of the vehicle engine is based on SAE J1349 standard conditions of 25°C/**77°F** and 100 kPa/**29.61" Hg**. Power is based on using 35° API (15.6°C/**60°F**) gravity fuel having an LHV of 42 780 kJ/kg/**18,390 Btu/lb** when used at 29.4°C/**85°F** and with a density of 838.9 g/L/**7.001 lb/U.S. gal**. Power rating is adjusted for vehicle equipped with fan, air cleaner, water pump, fuel pump, muffler and lubricating oil pump. No derating is required up to 2300 m/**7500 ft.** altitude.*

These additional ratings also apply at 2100 RPM.
ISO 1585.....163.5 kW/**219.0 HP**
ISO 3046-1.....160.8 kW/**215.6 HP**
EEC 80/1269 .....163.5 kW/**219.0 HP**

Caterpillar four-stroke-cycle, turbocharged 3306 diesel engine with six cylinders, 121 mm/**4.75"** bore, 152 mm/**6.0"** stroke and 10.5 liters/**638 in³** displacement.

Direct-injection, Caterpillar fuel system with individual, adjustment-free injection pumps and valves. Stellite-faced valves, hard alloy-steel seats, valve rotators.

Cam-ground and tapered, aluminum-alloy pistons have three rings each and are cooled by oil spray. Steel-backed, copper-bonded aluminum bearings, through-hardened crankshaft journals. Pressure lubrication with full-flow filtered and cooled oil. Dry-type air cleaner with primary and secondary elements.

Direct-electric, 24-volt starting system – includes ether starting aid. Heavy-duty batteries and engine coolant heater are also available separately for cold weather starting.

Brakes

Single pedal simultaneously applies brakes to both tracks for service or emergency stops. Machine will not move with parking brake applied. A manually operated service tool is available to allow in-seat brake release, in absence of control system pressure, for towing.

Final Drives

Double-reduction, planetary final drives spread the torque loads over multiple gears instead of one. Gears are splash lubricated and sealed with Duo-Cone Floating Ring Seals. Modular design greatly reduces the time required for removal. The elevated design isolates the final drives from ground-induced impact loads for long service life.

Steering

Steering clutches and brakes – Hydraulically released, spring-applied, multiple-disc brakes and hydraulically applied steering clutches are cooled by pressurized oil and require no adjustment. Each assembly serviceable as a unit.

Hand levers combine steering clutch disengagement and braking in one control for each track. Pull back slightly to disengage steering clutches, fully back to brake track.

Differential steer (optional) – Differential steering system provides continuous power to both tracks even in tight turns. Steering feature powered by a steering differential, hydraulic pump, motor and controls. Single steering tiller controls all direction movement. Twist grip controls forward/reverse direction. Moving tiller forward results in left hand turn when moving forward, right turn in reverse. Moving tiller towards operator results in right hand turn moving forward, left reverse. Speed selection is accomplished by rotating the dial switch located on the end of the tiller control to desired speed. Counter-rotation possible with transmission in neutral.

Hydraulic Controls

Complete system consists of pump, tank, filter, valves, lines and linkage, and control valves. Pressure-compensated controls take most of the effort out of operating the ripper and dozer/tilt control levers.

Pump capacity at 6895 kPa/69 bar/**1000 psi**:
Gear-type (steering clutches and brakes).....175 liters/min/**46.2 gpm**
Piston-type (differential steer).....275 liters/min/**72.7 gpm**
RPM at rated engine speed.....2231
Tilt cylinder flow .....91 liters/min/**24 gpm**
Relief valve settings:
Bulldozer.....22 737 kPa/227 bar/**3300 psi**
Tilt cylinder.....17 225 kPa/172 bar/**2500 psi**
Ripper (standard tractor only) .....22 737 kPa/227 bar/**3300 psi**
Drive.....geared from engine flywheel

Transmission

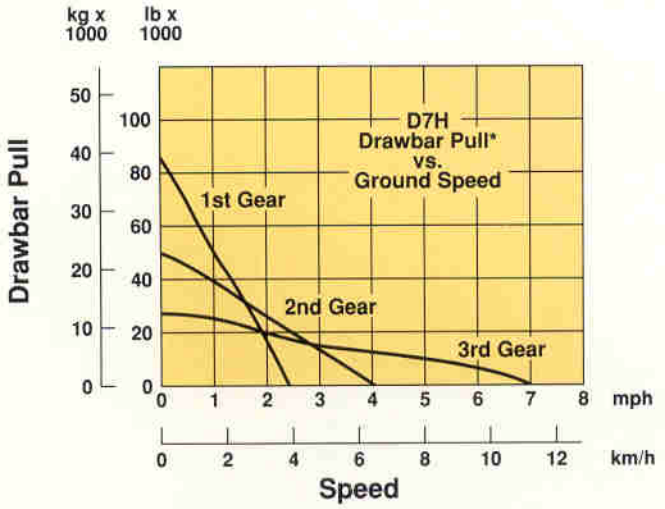
Power Shift
Planetary-type with 345 mm/**13.6"** diameter, high torque-capacity oil clutches. Special modulation system permits fast speed and direction changes. Single-stage torque converter with output torque divider. Connected to transmission by double universal joint for unit construction to provide servicing ease. Modular transmission and bevel gear plug into rear of main drive case and can be exchanged with ripper installed.

Travel Speeds:
Steering clutches and brakes:

		1st	2nd	3rd
Forward,	Km/h	3.9	6.8	11.9
	MPH	**2.4**	**4.2**	**7.4**
Reverse,	Km/h	4.8	8.4	14.3
	MPH	**3.0**	**5.2**	**8.9**

Differential steer:

		1st	2nd	3rd
Forward,	Km/h	3.7	6.4	11.1
	MPH	**2.3**	**4.0**	**6.9**
Reverse,	Km/h	4.7	8.0	13.7
	MPH	**2.9**	**5.0**	**8.5**



*Usable pull will depend on weight and traction of equipped tractor.

Direct Drive (steering clutches and brakes only)
Constant-mesh, sliding-collar countershaft transmission, with six speeds forward and reverse, enabling the operator to match tractor speed and drawbar pull more closely to job requirements.

Helical gears in the sliding collar transmission are in constant mesh. The curvature of the gears allow two teeth to be in contact at all times, sharing the loads. Helical gears also mesh more smoothly for quiet operation.

Master clutch has three plates. Clutch lubricated and cooled by pressure-circulated oil. Clutch is hydraulically actuated and requires no adjustment.

Direct drive speeds and drawbar pulls:

Gear	Forward		Reverse		Drawbar Pull, forward*			
					At rated RPM		Max. at lug	
	Km/h	MPH	Km/h	MPH	kg	lb	kg	lb
1	2.7	**1.7**	3.4	**2.1**	16 834	**37,113**	22 206	**48,955**
2	3.5	**2.2**	4.3	**2.7**	12 861	**28,353**	16 994	**37,465**
3	4.5	**2.8**	5.6	**3.5**	9703	**21,390**	12 888	**28,412**
4	5.8	**3.6**	7.1	**4.4**	7436	**16,394**	9941	**21,916**
5	7.6	**4.7**	9.2	**5.7**	5522	**12,173**	7451	**16,427**
6	10.0	**6.2**	12.2	**7.6**	3940	**8686**	5395	**11,894**

* Usable pull will depend on weight and traction of equipped tractor.

SPECIFICATIONS

Track Roller Frames

Standard – tubular design to resist torsional loads. Lifetime Lubricated rollers and idlers are directly mounted to roller frame.

Oscillating roller frames attach to tractor by a pivot shaft and fully pinned equalizer bar. Large pivot bushings operate in an oil reservoir.

Equalizer bar saddle connection is a low-friction, no-maintenance bushing. Recoil system is fully sealed and lubricated.

Extended – track roller frame is extended to the rear – provides 172 mm/**6.8"** more track on the ground. Ideal for drawbar or winch applications. Includes end track guiding guards.

LGP – track roller frames are extended both forward and to the rear to provide a more neutral center of gravity and even weight distribution.

Undercarriage	Standard	Extended	LGP
Oscillation (front idlers at gauge line)	353 mm/**13.9"**	364 mm/**14.3"**	389 mm/**15.3"**
Number of rollers (each side)	7	8	7
Number of shoes (each side)	40	41	43
Width of standard shoe	560 mm/**22"**	560 mm/**22"**	914 mm/**36"**
Width of optional shoes	510 mm/**20"**	—	760 mm/**30"**
extreme service shoes	510 mm/**20"**	—	—
	560 mm/**22"**	560 mm/**22"**	—
extreme service shoes	560 mm/**22"**	560 mm/**22"**	—
	610 mm/**24"**	610 mm/**24"**	—
extreme service shoes	610 mm/**24"**	610 mm/**24"**	—
	660 mm/**26"**	660 mm/**26"**	—
self-cleaning	—	—	914 mm/**36"**
Length of track on ground	2896 mm/**114"**	3068 mm/**120.8"**	3185 mm/**125.4"**
Track gauge	1981 mm/**78"**	1981 mm/**78"**	2235 mm/**88"**
Ground contact area of following			
shoe width 510 mm/**20"**	2.94 m^2/**4560 in^2**	—	—
560 mm/**22"**	3.24 m^2/**5016 in^2**	3.43 m^2/**5315 in^2**	—
610 mm/**24"**	3.53 m^2/**5472 in^2**	3.75 m^2/**5808 in^2**	—
660 mm/**26"**	3.82 m^2/**5928 in^2**	4.1 m^2/**6282 in^2**	—
LGP 760 mm/**30"**	—	—	4.8 m^2/**7504.3 in^2**
914 mm/**36"**	—	—	5.82 m^2/**9029 in^2**
Ground pressures of following			
shoe width 510 mm/**20"**	0.81 kg/cm^2/**11.46 psi**	—	—
Extreme Service 510 mm/**20"**	0.82 kg/cm^2/**11.64 psi**	—	—
560 mm/**22"**	0.74 kg/cm^2/**10.48 psi**	0.70 kg/cm^2/**9.93 psi**	—
Extreme Service 560 mm/**22"**	0.75 kg/cm^2/**10.66 psi**	0.71 kg/cm^2/**10.10 psi**	—
610 mm/**24"**	0.68 kg/cm^2/**9.67 psi**	0.64 kg/cm^2/**9.14 psi**	—
Extreme Service 610 mm/**24"**	0.69 kg/cm^2/**9.85 psi**	0.65 kg/cm^2/**9.31 psi**	—
660 mm/**26"**	0.63 kg/cm^2/**8.98 psi**	0.60 kg/cm^2/**8.51 psi**	—
LGP 760 mm/**30"**	—	—	0.53 kg/cm^2/**7.54 psi**
914 mm/**36"**	—	—	0.45 kg/cm^2/**6.38 psi**

Sealed and Lubricated Track

Sealed and Lubricated Track surrounds the track pin with lubricant to virtually eliminate internal pin and bushing wear. Lubricant is held in place by sealing arrangement consisting of a rigid shear seal, a rubber load ring and a thrust ring. Additional lubricant is contained in a reservoir drilled into the track pin. Extends undercarriage maintenance intervals and reduces costs. Hydraulic track adjusters and two-piece master link standard.

Pivot Shaft and Equalizer Bar

The D7H employs a pivot shaft and pinned equalizer bar oscillation system. The pivot shaft transmits ground impact loads directly to the main frame rather than through the power train components. The pinned equalizer bar keeps track roller frames in proper alignment. The D7H design has excellent ground clearance and provides a smooth underside to prevent collection of mud and debris.

Ripper

Rugged parallelogram design maintains constant tip angle for easy penetration and high production ripping. Socket beam design means easy servicing. Multi-shank ripper lets you choose one, two or three shanks, depending on job conditions.

Beam width .....2210 mm/**87"**
Beam cross section.....343 mm x 279 mm/**13.5" x 11"**
Maximum penetration .....737 mm/**29"**
Maximum clearance raised
(shank tip).....551 mm/**21.7"**
Number of pockets 3
Maximum penetration force.....8664 kg/**19,100 lb**
Maximum pryout force .....208 kN/21 183kg/**46,700 lb**
Weight:
With one shank.....3139 kg/**6920 lb**
Each additional shank.....145 kg/**320 lb**
Total operating weight,*
(tractor with ripper and
7SU blade).....27 237 kg/**60,047 lb**

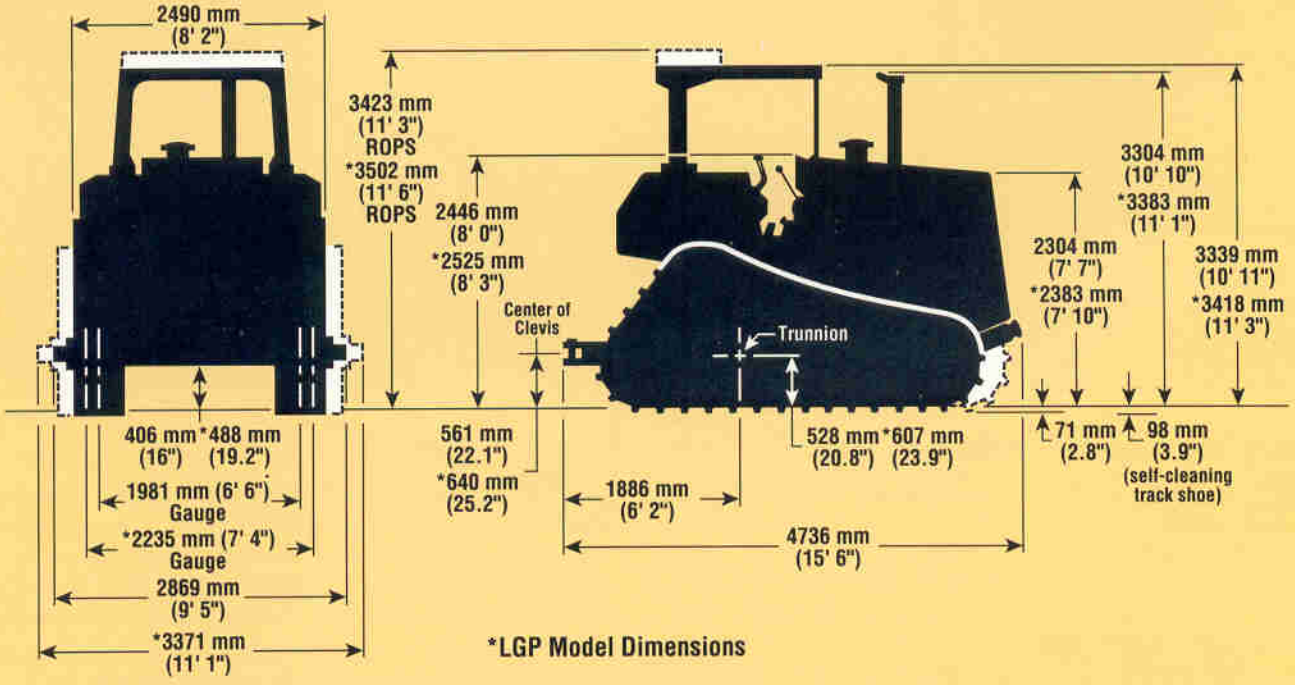
*Operating weight includes lubricants, coolant, full fuel tank, hydraulic controls, blade tilt cylinder, ROPS canopy, full track roller guards, 560 mm/**22"** extreme service shoes, extreme service bottom guards, operator and one shank.

Note: All specifications are converted from metric to British measure and rounded, unless otherwise specified.

SPECIFICATIONS

Dimensions (approximate)

	Standard	LGP
Ground clearance, from ground face of shoe per SAE J1234 JAN85	406 mm/**16.0"**	488 mm/**19.2"**
Drawbar height (center of clevis) from ground face of shoe	561 mm/**22.1"**	640 mm/**25.2"**
With following attachments, add to basic tractor length (including drawbar) of	4736 mm/**15'6"**	4736 mm/**15'6"**
SU Blade	1301 mm/**4'3.2"**	—
S Blade	1081 mm/**3'6.6"**	1071 mm/**3'6.2"**
U Blade	1541 mm/**5'0.7"**	—
A Blade	1301 mm/**4'6.4"**	—
Ripper with tip at ground line	1264 mm/**4'1.8"**	—
Ripper with tip fully raised	969 mm/**3'2.1"**	—
Winch	77 mm/**3.0"**	77 mm/**3.0"**



*LGP Model Dimensions

ROPS

ROPS Canopy is required in U.S.A. ROPS (Rollover Protection Structures) offered by Caterpillar for this machine meet ROPS criteria SAE J395, SAE J1040 APR88 and ISO 3471-1986. They also meet FOPS (Falling Object Protective Structure) criteria SAE J231 JAN81 and ISO 3449-1984.

Cab

Cab offered by Caterpillar, when properly installed and tested with doors and windows closed according to ANSI/SAE J1166 JUL87, meets OSHA and MSHA requirements for operator sound exposure limits in effect at the time of manufacture.

Service Refill Capacities

	Liters	U.S. Gallons
Fuel Tank	488.3	**129**
Cooling System	23.1	**6.1**
Lubricating Systems:		
Diesel engine crankcase	27.3	**7.2**
Power train oil system	129.1	**34.1**
Final drives (each)	9.5	**2.5**
Hydraulic System (tank only):		
Steering clutches and brakes	66.2	**17.5**
Differential steer	54.1	**14.3**

Weight (approximate)

Shipping (includes lubricants, coolant, ROPS canopy, hydraulic controls and 10% fuel.)

	Standard	LGP
Track shoes	559 mm/**22"**	914 mm/**36"**
Power shift*	19 755 kg/**43,551 lb**	21 578 kg/**47,571 lb**
Power shift**	20 028 kg/**44,154 lb**	21 852 kg/**48,174 lb**
Direct drive	19 677 kg/**43,379 lb**	21 695 kg/**47,829 lb**

Operating (includes lubricants, coolant, full fuel tank, blade with tilt cylinder, shoes, ROPS canopy, full track roller guards, hydraulic controls, drawbar and operator.)

	Standard	LGP
Blade	7SU	7S
Power shift*	24 254 kg/**53,470 lb**	26 148 kg/**57,645 lb**
Power shift**	24 528 kg/**54,073 lb**	26 421 kg/**58,248 lb**
Direct drive	24 176 kg/**53,298 lb**	26 265 kg/**57,903 lb**

* steering clutches and brakes
** differential steer

Winch

Weight*.....1869 kg/**4120 lb**
Winch length.....1232 mm/**48.5"**
Winch case width.....1220 mm/**48.0"**
Flange diameter.....550 mm/**21.5"**
Drum width.....310 mm/**12.5"**
Drum diameter.....305 mm/**12.0"**
Cable size:
Recommended.....25 mm/**1.0"**
Optional.....28 mm/**1.12"**
Drum capacity:
Recommended cable.....71 m/**238'**
Optional cable.....56 m/**190'**
Oil capacity.....81 L/**21.5 gal**
Cable/ferrule sizes
(OD x length).....60 mm x 70 mm/**2.38"** x **2.75"**

* Operating weight includes pump and operator controls.

SPECIFICATIONS

Bulldozer Specifications

Blade	Blade Capacity (SAE J1265)		Blade Width (over end bits)		Blade Height		Digging Depth		Ground Clearance		Maximum Tilt		Weight (Without Hyd. controls)		Total Operating Weight* (with blade)	
	m^3	yd^3	mm	ft. in.	mm	ft. in.	mm	in.	mm	ft. in.	mm	in.	kg	lb	kg	lb
7S:																
Standard....	5.16	**6.75**	3912	**12'10"**	1359	**4'5.5"**	526	**20.7**	1146	**3'9.1"**	846	**33.3**	3500	**7716**	24 173	**53,292**
LGP.....	5.91	**7.73**	4496	**14'9"**	1346	**4'5"**	638	**25.1**	1171	**3'10.1"**	686	**27.0**	3700	**8156**	26 148	**57,645**
7SU.....	6.86	**8.98**	3683	**12'1"**	1521	**4'11.9"**	526	**20.7**	1146	**3'9.1"**	798	**31.4**	3581	**7894**	24 254	**53,470**
7U.....	8.34	**10.91**	3988	**13'1"**	1549	**5'1"**	526	**20.7**	1146	**3'9.1"**	861	**33.9**	3860	**8510**	24 533	**54,086**
7A:																
Straight	3.89	**5.08**	(4496)	**14'9"**	1115	**3'7.9"**	668	**26.3**	1115	**3'7.9"**	627	**24.7**	3620	**7981**	24 302	**53,557**
Angled 25°...	—	—	4089	**13'5"**	1115	**3'7.9"**	668	**26.3**	1115	**3'7.9"**	627	**24.7**	3620	**7981**	24 302	**53,557**

* Operating weight includes power shift (steering clutches and brakes) arrangement, lubricants, coolant, full fuel tank, hydraulic controls, blade tilt cylinder, ROPS canopy, drawbar, 560 mm/**22"** shoes for standard, 914 mm/**36"** shoes for LGP and operator.

( ) Width with C-frame only is 3085 mm/**10'1.5"** includes C-frame assembly.

Standard Equipment

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

Alternator, 50-amp.
Arm rests, adjustable.
Back-up alarm.
Blower fan.
Crankcase guard.
Caplocks.
Decelerator.
Direct electric starting, 24-volt.
End guiding guards.
3306 DIT engine.
Ether starting aid.
Electronic Monitoring System (EMS).
Front pull device.
Hinged radiator grill.
Horn.
Hydraulic track adjusters.
Hydraulic system, two-valve, lift and tilt.
Instrument panel guard.
Lifetime Lubricated track rollers and idlers.
Multi-row module core radiator.
Muffler.
Precleaner and prescreener.
Rain caps.
Rearview mirror.
ROPS canopy.
Seat belt.
Seven roller track frame.
Starting receptacle.
Suspension seat, fully adjustable.
Temperature gauge group.
Choice of power shift or direct drive transmission.
Vandalism covers and locks.
Track:
Standard machine:
560 mm/**22"** extreme service grouser Sealed and Lubricated Tracks (40-section).
LGP machine:
914 mm/**36"** grouser Sealed and Lubricated Tracks (43-section).
End and center track guiding guards.

Optional Equipment

(with approximate change in operating weights*)

	Kg	Lb
Air conditioner	57	**125**
Batteries, heavy-duty	36	**80**
Blades	(see page 14)	
Cab, ROPS, sound suppressed, (includes air pressurizer, heater, air filter, front and rear windshield wipers and washers, key locks and storage compartment)	358	**790**
Canopy, ROPS, removed (standard in U.S.A.)	-477	**-985**
Counterweight, rear, (included drawbar)	2329	**5134**
Counterweight, rear, additional weight for use with counterweight	572	**1260**
Differential steering system	274	**603**
Drawbar, rigid	235	**519**
Engine coolant heater	1	**3**
Engine enclosure (includes perforated hood and side panels)	73	**160**
Extended roller frame (without track)	104	**230**
Fan, reversible	6	**13**
Fuel Priming Pump	1	**3**
Guards:		
Crankcase, extreme service	80	**176**
Engine, upper	45	**100**
Fuel tank	226	**498**
Radiator grill, hinged, heavy-duty	129	**285**
Rear Tractor	70	**154**
Track guiding, center only:		
Standard roller frame only	70	**155**
Extended roller frame only	88	**195**
Track guiding, full length:		
Standard roller frame only	234	**516**
Extended roller frame only	259	**571**
LGP roller frame only	185	**408**
Heater, canopy ROPS	36	**80**
Hydraulic controls:		
One valve, for 7A Bulldozer	-18	**-39**
Two valves, for 7A Bulldozer and ripper	5	**10**
Three valves, for 7S, 7SU, 7U or 7A Bulldozer, hydraulic tilt cylinder and ripper	22	**48**
Implement hydraulic oil cooler (standard with differential steer)	44	**96**
Laminated Thermo-Shield	23	**51**
Lighting system, halogen:		
Six lights, with ROPS mounting	36	**80**
Two lights, mounted on lift cylinder	19	**42**
Radiator core protector grid	17	**37**
Ripper, includes one shank	3139	**6920**
Ripper shank, additional	145	320
Screen, rear, for cab or canopy	68	**150**
Sound suppression, spectator	3	**6**
Sweeps, logging (canopy or cab)	279	**614**
Tilt cylinders, hydraulic, for 7A bulldozer	166	**366**
Tool kit	7	**15**
Tracks, pair, Sealed and Lubricated:		
Standard roller frame only (40-section)		
510 mm/**20"**	-559	**-1232**
510 mm/**20"** extreme service	-186	**-410**
560 mm/**22"**	-408	**-900**
610 mm/**24"**	-258	**-568**
610 mm/**24"** extreme service	186	**410**
660 mm/**26"**	-107	**-236**
Extended roller frame only (41-section)**		
560 mm/**22"**	-324	**-714**
560 mm/**22"** extreme service	94	**208**
610 mm/**24"**	-170	**-374**
610 mm/**24"** extreme service	285	**628**
660 mm/**26"**	-15	**-34**
LGP roller frame only (43-section)		
760 mm/**30"**	-498	**-1097**
914 mm/**36"** self-cleaning	195	**430**
Winch (includes pump and operator controls)	1869	**4120**
Winch cable guide rolls	50	**110**
Winch fairlead (cannot be used with cable guide rolls)	336	**740**

* Specifications are converted from British to metric measure and rounded.
** Weights must be used with extended roller frame.

D7H SERIES II TRACK-TYPE TRACTOR

The Competitive Edge

Performance

- **Optimum fore and aft balance** — the elevated sprocket design gives the flexibility to optimize balance and stability by tailoring the D7H roller frame mounting location for the best possible performance.
- **Long track-to-ground contact length** — traction and stability.
- **Excellent side slope capability** — wide track gauge gives the D7H LGP excellent side slope stability.
- **Exceptional ground clearance** — roller frame alignment is maintained by a pivot shaft and pinned equalizer bar. This eliminates diagonal bracing — giving a flat, clean underside that reduces mud retention, abrasive wear and the risk of damage to components.
- **Differential steer (optional)** — power to both tracks at all times. Enhanced maneuverability, productivity and operating ease.
- **Turbocharged 3306 engine** — direct fuel injection for more working power from each unit of fuel. Excellent power-to-weight ratio — faster loading, bigger loads, shorter cycle times.

Reliability/Durability

- **Tubular track roller frames** resist bending and twisting better than box-section frames.
- **Durable main frame** absorbs all implement and roller frame loads through pivot shaft.
- **Elevated sprocket design** — raises final drives and associated power train components above work environment, isolates from implement and ground-induced shock loads...extends drive train life.
- **Large, sturdy undercarriage components** — longer service life.
- **Oil-cooled brakes** for increased capacity, life.
- **Double-reduction, planetary final drives** spread torque loads for long life.
- **Large engine displacement** — peak power with little strain.

Maintenance/Repair

- **Modular components** — remove as single units for simpler, quicker repairs, less downtime.
- **Modules can be pre-tested, field installed** — less shoptime, downtime.
- **Electronic Monitoring System (EMS)** — shows status of important machine systems. Operator concentrates on production instead of watching gauges.
- **Exclusive plug-in diagnostic tool connector** — diagnostic tool reads electrical system check points — electrical problems diagnosed quickly.
- **Minimal daily maintenance** — easy access, grouped service points reduce downtime.

Operating Ease

- **Conveniently placed, precise, low-effort controls** and easy-to-read, non-glare instrument panel — less strain, fatigue for operator.
- **Fully adjustable suspension seat** with adjustable arm rests angled 15° for comfort, visibility.
- **Sound-suppressed ROPS/FOPS cab** available — heater (standard with cab) or optional heater/air conditioner controls environment — pressurization keeps out dust.

Total Customer Support System

- **Parts availability** — most Cat parts on dealer's shelf when you need them — computer-controlled, emergency search system backup.
- **Service capability** — dealer's shop or fast field service — trained service people — latest tools and technology.
- **Machine management services** — effective preventive maintenance programs, diagnostic programs (Scheduled Oil Sampling, Technical Analysis), cost effective repair options, customer meetings, operator and mechanic training.
- **Exchange components for quick repairs** — choose remanufactured products or rebuilt components for maximum availability and lower costs.
- **Literature support** — easy-to-use operation, maintenance guides help you get the maximum value out of your equipment investment.
- **Flexible Financing** — your dealer can arrange attractive financing on the entire line of Cat equipment. Terms structured to meet your cash flow requirements. See how affordable and easy it is to own Cat equipment.

Custom Products

- In addition to the standard range of optional equipment, special attachments and machine configurations to suit particular customer applications can be made. Contact your Caterpillar dealer for details on matching the Caterpillar product to your special applications.

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