

D7H
Series II
Standard, XR & LGP
Track-Type Tractors

CAT[®]



**Cat™ 3306 Turbocharged Diesel Engine
at Flywheel Power**

Standard	
XR Arrangements	171 kW/230 HP
LGP Arrangement	171 kW/230 HP

Operating weight (Power shift model)

Standard	
Arrangement	24 726 kg/54,511 lb
XR Arrangement	24 952 kg/55,010 lb
LGP Arrangement	26 842 kg/59,176 lb

Blade capacity

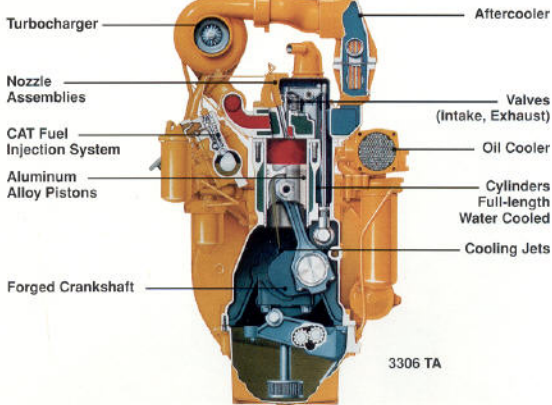
Standard	
Arrangement	8.34 m ³ /10.91 yd ³
XR Arrangement	8.34 m ³ /10.91 yd ³
LGP Arrangement	5.91 m ³ /7.73 yd ³

FEATURES

Caterpillar® Diesel Engine

Reliable...durable...efficient!

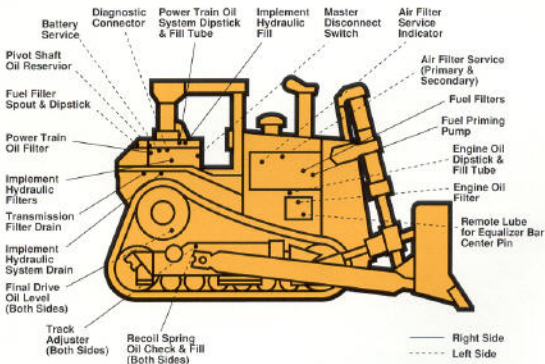
- **Turbocharged and aftercooled 3306 diesel engine** delivers plenty of power for quick response, big loads.
- **Large displacement, high torque rise and low RPM rating** for low stress, long life.
- **High torque rise** offers superior lugging capabilities — keep moving through tough spots without 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.



Service

The Cat elevated sprocket tractor's modular design concept moves 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.



Optional Equipment

 (with approximate change in operating weights⁹⁾

	Kg	Lb		Kg	Lb
Air conditioner	57	125	Implement hydraulic oil cooler (standard with differential steer).....	44	96
Batteries, heavy-duty	36	80	Lighting system, six halogen lights	36	80
Blades	(see page 14)		Radiator core protector grid	17	37
Cab, ROPS, sound suppressed, (includes air pressurizer, heater, air filter, front and rear windshield wipers and washers, key locks and storage compartment)	363	800	Ripper, includes one shank.....	3139	6920
Canopy, ROPS, removed (standard in U.S.A.).....	-477	-985	Ripper shank, additional	145	320
Counterweight, rear, (included drawbar)	2329	5134	Screen, rear, for cab or canopy	68	150
Counterweight, rear, additional weight for use with counterweight	572	1260	Sound suppression, spectator	3	6
Differential steering system.....	299	660	Sweeps, logging (canopy or cab).....	258	569
Drawbar, rigid	235	519	Tilt cylinders, hydraulic, for 7A bulldozer	166	366
Engine coolant heater.....	1	3	Tool kit.....	7	15
Engine enclosure (includes perforated hood and side panels)	68	150	Tracks, pair, Sealed and Lubricated: Standard roller frame only (40-section)		
Extended roller frame (without track)	104	230	510 mm/20"	-559	-1232
Fan, reversible	6	13	510 mm/20" extreme service	-186	-410
Fuel Priming Pump	1	3	560 mm/22"	-408	-900
Guards:			610 mm/24"	-258	-568
Crankcase, extreme service	80	176	610 mm/24" extreme service	186	410
Engine, upper	45	100	660 mm/26"	-107	-236
Fuel tank	226	498	XR roller frame only (41-section)**		
Radiator grill, hinged, heavy-duty.....	129	285	560 mm/22"	-324	-714
Rear Tractor	70	154	560 mm/22" extreme service	94	208
Track guiding, center only:			610 mm/24"	-170	-374
Standard roller frame only	70	155	610 mm/24" extreme service	285	628
Extended roller frame only	88	195	660 mm/26"	-15	-34
Track guiding, full length:			LGP roller frame only (43-section)		
Standard roller frame only	234	516	760 mm/30"	-498	-1097
Extended roller frame only	259	571	914 mm/36" self-cleaning	195	430
LGP roller frame only	185	408	Winch (includes pump and operator controls).....	1869	4120
Heater, canopy ROPS	36	80	Winch cable guide rolls.....	50	110
			Winch fairlead (cannot be used with cable guide rolls).....	336	740

⁹ Specifications are converted from British to metric measure and rounded.

^{**} Weights must be used with extended roller frame.

SPECIFICATIONS



Weight (approximate)

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

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

ARRANGEMENT	STANDARD with 7SU	XR with 7SU	LGP with 7S
Shipping Weight			
Power Shift.....	20 299 kg/44,752 lb	20 403 kg/44,981 lb	22 248 kg/49,048 lb
Power Shift with Differential Steering.....	20 599 kg/45,413 lb	20 703 kg/45,642 lb	22 548 kg/49,710 lb
Operating Weight			
Power Shift.....	24 726 kg/54,511 lb	24 952 kg/55,010 lb	26 842 kg/59,176 lb
Power Shift with Differential Steering.....	25 025 kg/55,171 lb	25 251 kg/55,669 lb	27 142 kg/59,838 lb

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.....	5.16	6.75	3912	12'10"	1359	4'5.5"	526	20.7	1146	45"	846	33.3	3386	7465	24 371	53,729
7SU.....	6.86	8.98	3683	12'1"	1521	4'11.9"	526	20.7	1146	45"	798	31.4	3507	7732	24 493	53,998
7U.....	8.34	10.9	3988	13'1"	1549	5'1"	526	20.7	1146	45"	861	33.9	3746	8259	24 731	54,523
7A:																
Straight.....	3.89	5.08	(4496)	(14'9")	1115	3'7.9"	668	26.3	1115	44"	627	24.7	3713	8186	24 698	54,450
Angled 25°.....	—	—	4089	13'5"	1115	3'7.9"	668	26.3	1115	44"	627	24.7	3713	8186	24 698	54,450
7S LGP.....	5.91	7.73	4496	14'9"	1346	4'5"	638	25.1	1171	46"	686	27	3723	8208	26 657	58,769

* 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 DITA engine.
Ether starting aid.
Electronic Monitoring System (EMS).
Front pull device.
Fuel Gauge

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.
Precleaner and prescreener.
Rain caps.
Rearview mirror.
ROPS canopy.
Seat belt.
Seven roller track frame.

Starting receptacle.
Suspension seat, fully adjustable.
Temperature gauge group.
Power Shift 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.



Service Refill Capacities

	Liters	U.S. Gallons
Fuel Tank	479	126.5
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



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/233'
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"

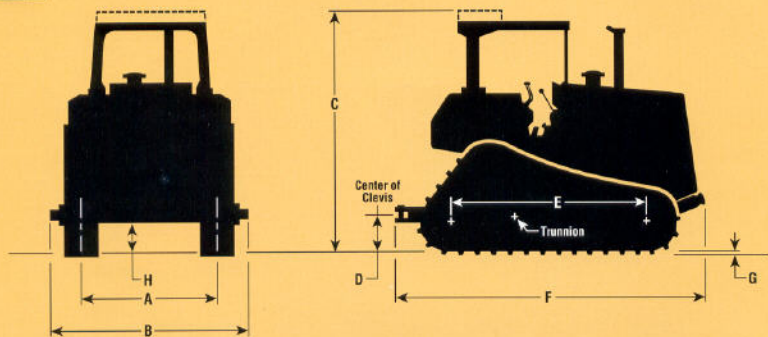
* Operating weight includes pump and operator controls.



SPECIFICATIONS



Dimensions (approximate)



Tractor Dimensions	Standard	XR	LGP
A. Track gauge	1981 mm/78"	1981 mm/78"	2235 mm/88"
B. Width of tractor	2869 mm/9'5"	2869 mm/9'5"	3371 mm/11'1"
C. Machine height from tip of grouser:			
ROPS	3494 mm/11'5.8"	3494 mm/11'5.8"	3573 mm/11'8.8"
Stack	3375 mm/11'1.8"	3375 mm/11'1.8"	3454 mm/11'3.8"
Dash	2517 mm/8'2.8"	2517 mm/8'2.8"	2596 mm/8'5.5"
Nose	2375 mm/7'9.8"	2375 mm/7'9.8"	2454 mm/8'1.8"
D. Drawbar height (center of clevis) from ground face of shoe	561 mm/22.1"	561 mm/22.1"	640 mm/25.2"
E. Length of track on ground	2896 mm/114"	3068 mm/120.8"	3185 mm/125.4"
F. Length of basic tractor (with drawbar)	4736 mm/15'6"	4736 mm/15'6"	4736 mm/15'6"
With the following attachments, add to basic tractor length			
Ripper (with tip at ground line)	1264 mm/4'1.8"	1264 mm/4'1.8"	—
Ripper (with tip fully raised)	969 mm/3'2"	969 mm/3'2"	—
Winch	77 mm/3"	77 mm/3"	77 mm/3"
S-blade	1081 mm/3'6.6"	1081 mm/3'6.6"	1071 mm/3'6"
SU-blade	1301 mm/4'3"	1301 mm/4'3"	—
U-blade	1541 mm/5'1.7"	1541 mm/5'1.7"	—
A-blade	1301 mm/4'6.4"	1301 mm/4'6.4"	—
G. Height of grouser	71 mm/2.8"	71 mm/2.8"	71 mm/2.8"
H. Ground clearance	406 mm/16"	406 mm/16"	488 mm/19.2"



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)	27 775 kg/61,233 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



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.

XR – 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	XR	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"	—	—
extreme service shoes.....	560 mm/22"	560 mm/22"	—
extreme service shoes.....	560 mm/22"	560 mm/22"	—
extreme service shoes.....	610 mm/24"	610 mm/24"	—
extreme service shoes.....	610 mm/24"	610 mm/24"	—
self-cleaning.....	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.....	—	—	4.8 m ² /7504.3 in ²
LGP.....	—	—	5.82 m ² /9029 in ²
Ground pressures of following shoe width.....			
510 mm/20"	.823 kg/cm ² /11.707 psi	—	—
Extreme Service 510 mm/20"	.836 kg/cm ² /11.887 psi	—	—
560 mm/22"	.753 kg/cm ² /10.709 psi	.715 kg/cm ² /10.177 psi	—
Extreme Service 560 mm/22"	.766 kg/cm ² /10.888 psi	.728 kg/cm ² /10.350 psi	—
610 mm/24"	.694 kg/cm ² /9.877 psi	.660 kg/cm ² /9.387 psi	—
Extreme Service 610 mm/24"	.707 kg/cm ² /10.056 psi	.672 kg/cm ² /9.560 psi	—
660 mm/26"	.645 kg/cm ² /9.173 psi	.613 kg/cm ² /8.719 psi	—
LGP.....	—	—	.545 kg/cm ² /7.740 psi
LGP.....	—	—	.461 kg/cm ² /6.552 psi

Note: Ground pressures shown in the chart above are based on the operating weight of a clutch/brake machine.



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.



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. Certified for operating weight of 32 200 kg/70,988 lb.



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:

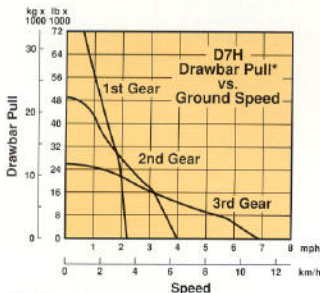
	1st	2nd	3rd
Forward, Km/h	3.5	6.2	10.6
MPH	2.2	3.8	6.6
Reverse, Km/h	4.6	7.9	13.5
MPH	2.8	4.9	8.4



Cab

When properly installed and maintained, cab offered by Caterpillar, when tested with doors and windows closed as per work cycle procedures specified in ANSI/SAE J1166 MAY 90, results in an operator sound exposure Leq (equivalent sound pressure level) of 85 dB(A).

This operator A-weighted sound exposure level can be used in conjunction with OSHA, MSHA and EEC Occupational Noise Exposure Criteria. Also, when tested as per the static specifications of 86/662/EEC and dynamic specifications of 89/514/EEC, the respective operator sound pressure levels are 84 and 85 dB(A).



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

SPECIFICATIONS



Caterpillar Engine

Gross power.....184 kW/**247 HP**
Flywheel power.....171 kW/**230 HP**
(Kilowatts (kW) is the International System of Units equivalent of horsepower.)

Ratings of the machine engine are based on standard air conditions of 25°C/77°F and 98 kPa/29.32 in Hg dry barometer. Performance is based on using 35° API gravity fuel having an LHV of 42 780 kJ/kg/18,390 Btu/lb when used at 30.0°C/86°F and with a density of 838.9 g/L/7,001 lb/U.S. gal. Flywheel power rating is adjusted for machine equipped with fan, air cleaner, water pump, fuel pump, muffler and lubricating oil pump. No derating is required up to 2286 m/7500 ft. altitude.

These additional standards also apply at 2100 RPM.
ISO 9249.....171 kW/**230 HP**
EEC 80/1269.....171 kW/**230 HP**
ISO 3046-2.....184 kW/**247 HP**
SAE J1349 (JAN90).....170 kW/**228 HP**

Caterpillar four-stroke-cycle, turbocharged, aftercooled 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.



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.

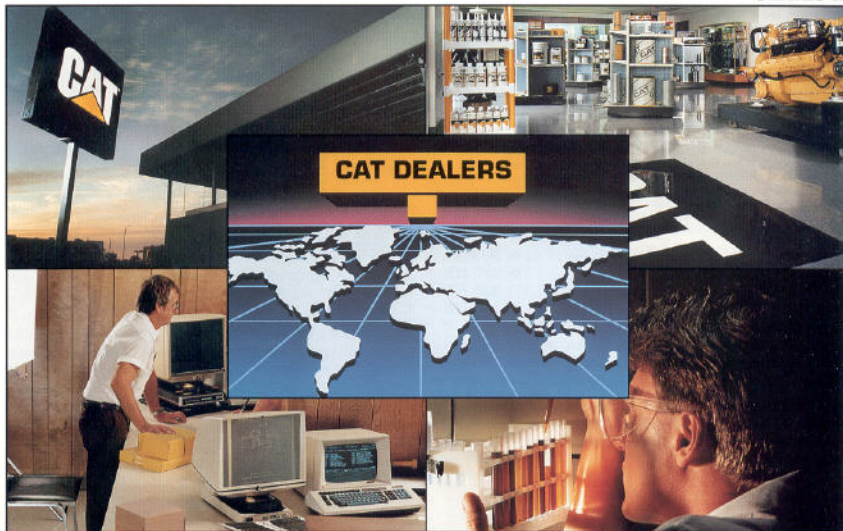


Hydraulic Controls

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/till 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



Total Customer Support

Unmatched in the industry!

- **Parts availability** — Most Cat parts are immediately available off the shelf. Dealer parts availability is backed by the Cat 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:

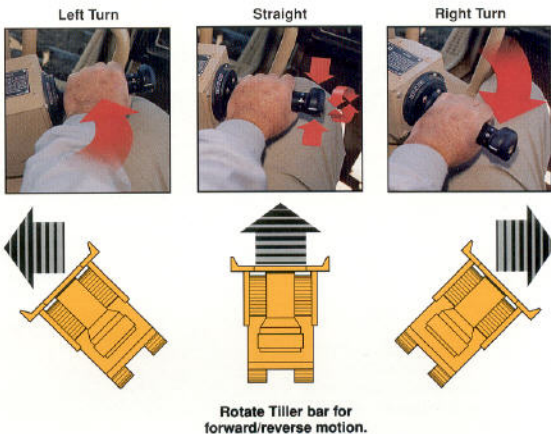
 - Custom Track Service.
 - Effective preventive maintenance programs.
 - Diagnostic programs like Scheduled Oil Sampling and Technical Analysis.
 - Information to make the most cost-effective repair option decisions.
 - Customer meetings, training for operators and mechanics.
- **Exchange components for quick repairs** — low-cost components assure maximum, cost-effective uptime.
- **Literature support** — Easy-to-use operation and maintenance manual helps you get the full value out of your equipment investment.

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.



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 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.

Elevated Sprocket Undercarriage

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

Standard Arrangement

- A forward center of gravity with long track footprint allows for good blade penetration in general to severe dozing applications with firm underfoot conditions.

XR Arrangement

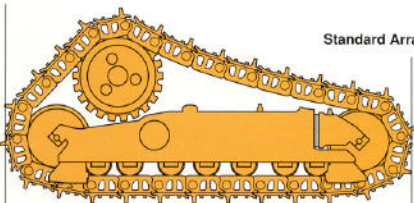
- More track to the rear counter-balances weight forward, increases traction, assures high dozing forces.
- Roller frame built to excel in skidding or other drawbar applications.

LGP Arrangement

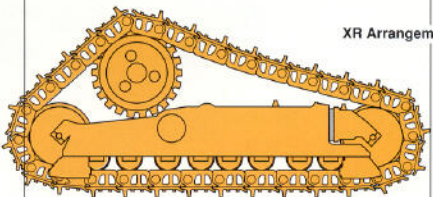
- LGP undercarriage is specially designed to work in soft and spongy conditions.
- Wide track shoes, long track frame and wider gauge increase track contact area, reduce ground pressure for improved stability and provide excellent flotation in swampy conditions.

Track shoe options

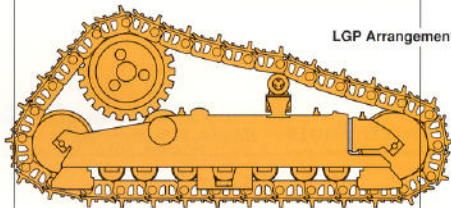
- Caterpillar single-grouser shoes are made from heat-treated, rolled steel for added strength.
 - Widths available for standard arrangements: 510 mm/20". For use in high impact conditions.
 - Widths available for standard and XR arrangements: 560 mm/22", 600 mm/24", and 660 mm/26". Provide more flotation than standard shoes and enhanced stability.



Standard Arrangement

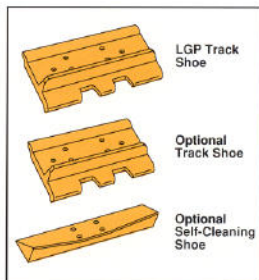


XR Arrangement



LGP Arrangement

- Widths available for LGP arrangements: 914 mm/36". Provide excellent flotation in wet underfoot conditions. 760 mm/30". For use in dryer ground conditions. 914 mm/36" self cleaning. Made of cast steel, this shoe reduces material build-up for better traction.



FEATURES

Elevated Sprocket Undercarriage

- **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 — extending power train component life.
- **Sprocket position** keeps sprocket teeth, bushings and final drives away from the abrasive materials and moisture — resulting in longer final drive gear and seal life.

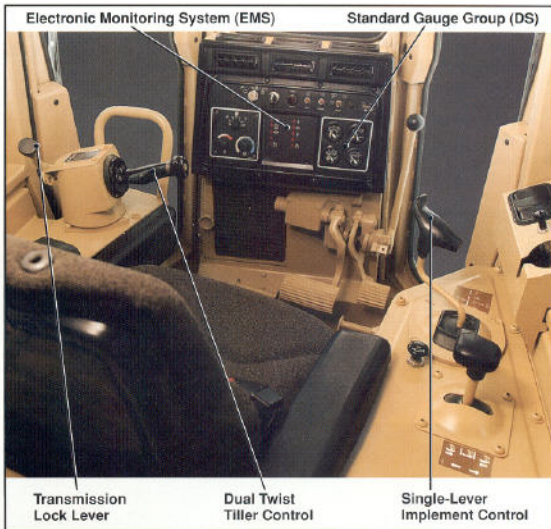
The Caterpillar elevated sprocket undercarriage arrangements allow optimized balance for the best possible performance in each application.



Operator's Station

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

- **Operator's station** provides excellent visibility to blade and rear of machine for maximum operator productivity.
- **Easy-to-reach, low-effort controls** provide sure, precise steering and dozer control for less operator fatigue.
- **Instrument panel** includes standard gauge group with fuel gauge and Electronic Monitoring System (EMS) for monitoring critical machine functions.
- **Isolation-mounted cab** (optional) with air pressurizer and heater reduces noise and vibration for shift-long comfort.
- **Cab, storage compartment and cup holder** — for added operator convenience.
- **Caterpillar Contour Series Seat** — ergonomically designed and fully adjustable for maximum comfort.
 - Backrest centerline conforms to the operator's spinal curve and also has a transverse curve to provide additional side-to-side support.
 - Fully adjustable seat allows the operator to position for maximum comfort.
 - Three position, lower back support.
 - Three position, seat height and cushion tilt adjustment.
 - Three position, suspension dampening.
 - Operator weight support adjustment.
 - Retractable 75 mm/3" wide seatbelt for positive, comfortable restraint.
- **Radio installation group** (standard with cab).
 - Includes mounting brackets, AM-FM antenna and speakers.
 - AM-FM stereo cassette radio, optional.



Hand Lever Steering



Radio (Optional)



Caterpillar Contour Series Seat



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 and aftercooled 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 and maintenance manuals 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 are available. For example:

The Waste Disposal Arrangement consists of special modifications and guarding which enable the tractor to work more effectively in landfill applications.

For details on matching the D7H Series II to your special application, contact your Caterpillar dealer.

CATERPILLAR®