



D6H SERIES II

STANDARD, XL, XR AND LGP* TRACK-TYPE TRACTORS

Cat® 3306 Turbocharged Diesel Engine at Flywheel Power

Standard Arrangement123 kW/165 HP

XL/XR Arrangements130 kW/175 HP

LGP Arrangement

Power shift.....134 kW/180 HP

Direct drive.....127 kW/170 HP

Operating Weight**

Standard Arrangement17 997 kg/39,676 lb

XL Arrangement.....18 966 kg/41,811 lb

XR Arrangement.....18 266 kg/40,270 lb

LGP Arrangement.....20 486 kg/45,163 lb

Blade capacity, up to:

Standard Arrangement.....5.61 m³/7.34 yd³

XL/XR Arrangements.....5.61 m³/7.34 yd³

LGP Arrangement.....3.70 m³/4.83 yd³

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

*Low Ground Pressure

**Power shift model

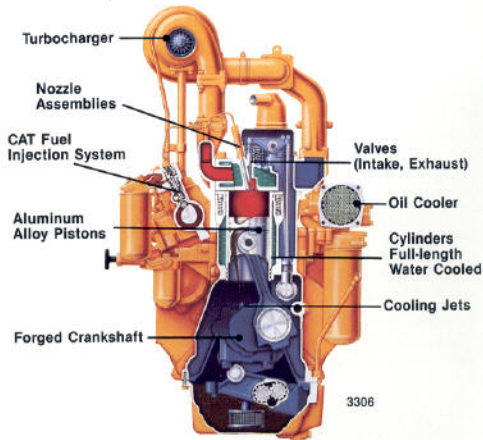


FEATURES

Caterpillar® Diesel Engine

Reliable...durable...efficient!

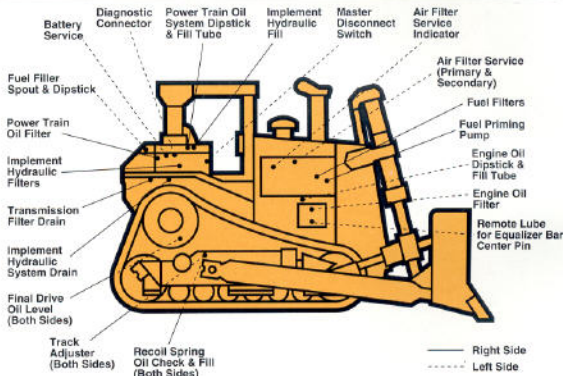
- **Turbocharged 3306 diesel engine** delivers plenty of power for quick response, big loads.
- **Large displacement, high torque rise and low RPM rating** for low stress, long life.
- **High torque rise** offers superior lugging capabilities—keep moving through tough spots without downshifting.
- **Direct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

| | Kg | Lb | | Kg | Lb |
|---|---------------|------|--|------|------|
| Air conditioner | 57 | 125 | Heater, canopy ROPS | 43 | 95 |
| Batteries, heavy-duty | 59 | 130 | Hook, heavy duty, front pull | 12 | 26 |
| Blades | (see page 13) | | Hydraulic controls, third valve (additional valve for ripper) | 37 | 81 |
| Cab, ROPS, (Sound suppressed, includes air pressurizer, heater, contour series seat, seat belt, radio mounting and speakers, front and rear windshield wipers and washers, air filter, rearview mirror, vandalism protection and key locks | 383 | 845 | Lighting system, four Halogen lights ... | 13 | 29 |
| Canopy, ROPS, removed (standard in U.S.A.) | -383 | -845 | Prescreener | 3 | 6 |
| Counterweight | 1465 | 3230 | Radiator core protector grid | 20 | 45 |
| Decelerator (for direct drive) | 4 | 9 | Ripper, includes one tooth | 1564 | 3449 |
| Drawbar: Rigid, for use with Std/XL | 106 | 234 | Screen, rear, for cab or canopy | 59 | 130 |
| Rigid, for use with XR/LGP | 116 | 256 | Seat, vinyl contour series | 2 | 5 |
| Engine coolant heater | 1 | 3 | Sound suppression, spectator | 111 | 244 |
| Engine enclosure (with perforated side panels) Normal duty | 44 | 97 | Sweeps, logging, canopy or cab | 354 | 779 |
| Heavy duty | 63 | 139 | Tilt cylinders, dual hydraulic, for angle dozers | 257 | 565 |
| Fan, reversible | 7 | 15 | Tracks, pair, Sealed and Lubricated: Standard roller frame only (39 section) 510 mm/20" ES | 176 | 388 |
| Gauge, hydraulic oil temp. | 1 | 2 | 560 mm/22" ES | 318 | 701 |
| Guards: Bottom, heavy duty | 64 | 140 | 610 mm/24" MS | 124 | 273 |
| Bottom, extreme duty | 142 | 312 | 510 mm/20" ES/HDT | 242 | 533 |
| Fuel tank | 129 | 284 | 560 mm/22" MS/HDT | 66 | 145 |
| Precleaner | 10 | 22 | 560 mm/22" ES/HDT | 384 | 846 |
| Grill, heavy duty, louver | 30 | 66 | 610 mm/24" MS/HDT | 190 | 418 |
| Grill, heavy duty, punched hole | 24 | 53 | XL roller frame only (41 section) 510 mm/20" ES | 185 | 408 |
| Radiator chin, heavy duty | 13 | 29 | 560 mm/22" ES | 334 | 736 |
| Rear, heavy duty | 43 | 95 | 610 mm/24" MS | 130 | 287 |
| Track guiding, center only: Standard, XL and XR | 54 | 120 | 510 mm/20" ES/HDT | 254 | 560 |
| Standard, XL and XR** | 52 | 114 | 560 mm/22" MS/HDT | 69 | 152 |
| Track roller guards, full length: Standard | 176 | 389 | 560 mm/22" ES/HDT | 403 | 888 |
| Standard** | 156 | 343 | 610 mm/24" MS/HDT | 199 | 439 |
| XL | 201 | 443 | XR roller frame only (40 section) 510 mm/20" ES | 181 | 399 |
| XL** | 183 | 404 | 560 mm/22" ES | 325 | 717 |
| XR | 196 | 432 | 610 mm/24" MS | 127 | 280 |
| XR** | 172 | 380 | 510 mm/20" ES/HDT | 249 | 549 |
| LGP | 154 | 339 | 560 mm/22" MS/HDT | 68 | 150 |
| | | | 560 mm/22" ES/HDT | 393 | 867 |
| | | | 610 mm/24" MS/HDT | 195 | 430 |
| | | | LGP roller frame only (45 section) 760 mm/30" MS/HDT | -446 | -983 |
| | | | 1000 mm/39" Self Cleaning/HDT | 95 | 209 |
| | | | Winch (includes pump and operator controls) | 1279 | 2814 |
| | | | Winch cable guide rolls | 61 | 135 |
| | | | Winch fairlead (cannot be used with cable guide rolls) | 381 | 840 |

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

** For use with heavy duty link track.

ES=Extreme Service shoes, MS=Moderate Service shoes, HDT=Heavy Duty link Track.

SPECIFICATIONS

Standard Equipment

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

| | | |
|------------------------------------|--------------------------------------|--------------------------------|
| Alternator, 50-amp. | Hydraulic track adjusters. | Track, Sealed and Lubricated: |
| Arm rests, adjustable. | Hydraulic, two-valve, lift and tilt. | Standard Arrangement, |
| Back-up alarm. | Instrument panel guard. | 560 mm/22" grouser |
| Blower fan. | Lifetime Lubricated track rollers | (39-section). |
| Crankcase guard. | and idlers. | XL Arrangement, |
| Caplocks. | Load-sensing hydraulic system. | 560 mm/22" grouser |
| Decelerator (power shift only). | Multi-row module core radiator. | (41-section). |
| Direct electric starting, 24-volt. | Precleaner. | XR Arrangement, |
| End guiding guards. | Rearview mirror. | 560 mm/22" grouser |
| 3306 DIT engine. | ROPS canopy. | (40-section). |
| Ether starting aid. | Seat belt. | LGP Arrangement, |
| Electronic Monitoring System | Suspension seat, fully adjustable. | 915 mm/36" grouser |
| (EMS). | Temperature gauge group. | (45-section, Heavy Duty Link). |
| Front pull device. | | Transmission, choice of power |
| Hinged radiator grill. | | shift or direct drive . |
| Horn. | | Vandalism covers and locks. |





Weight (approximate)

Shipping (includes lubricants, coolant, ROPS canopy, 2-valve hydraulic controls and 10% fuel.)

Operating (includes lubricants, coolant, full fuel tank, blade with tilt cylinder, shoes, ROPS canopy, 2-valve hydraulic controls, drawbar and operator.)

| ARRANGEMENT | STANDARD | | XL | | XR | | LGP | |
|--|----------|--------|---------|--------|--------|--------|--------|--------|
| | kg | lb | kg | lb | kg | lb | kg | lb |
| Shipping Weight | | | | | | | | |
| Power Shift | 14 874 | 32,792 | 15 491 | 34,152 | 15 018 | 33,108 | 17 162 | 37,836 |
| Power Shift with Differential Steering | 14 989 | 33,044 | 15 606 | 34,404 | 15 132 | 33,360 | 17 272 | 38,088 |
| Direct Drive | 14 918 | 32,888 | — | — | — | — | 17 206 | 37,932 |
| Operating Weight | | | | | | | | |
| Attached Blade | 6S | | 6 SU XL | | 6A HD | | 6S LGP | |
| Power Shift | 17 997 | 39,676 | 18 966 | 41,811 | 18 684 | 41,192 | 20 486 | 45,163 |
| Power Shift with Differential Steering | 18 111 | 39,928 | 19 080 | 42,063 | 18 799 | 41,444 | 20 600 | 45,415 |
| Direct Drive | 18 040 | 39,772 | — | — | — | — | 20 529 | 45,259 |

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 ¹ (with blade) | |
|------------------|-------------------------------|-----------------|--------------------------------|---------|--------------|-------|---------------|-------|------------------|-------|--------------|-------|-----------------------------------|------|---|--------|
| | m ³ | yd ³ | mm | ft. in. | mm | in. | mm | in. | mm | in. | mm | in. | kg | lb | kg | lb |
| 6S, Std/XR..... | 3.89 | 5.09 | 3360 | 11'0" | 1257 | 49.5" | 473 | 18.6" | 1104 | 43.5" | 765 | 30.1" | 2632 | 5803 | 17 997 | 39,676 |
| 6SU, Std/XR..... | 5.61 | 7.34 | 3260 | 10'8" | 1411 | 55.6" | 473 | 18.6" | 1104 | 43.5" | 743 | 29.3" | 2721 | 5998 | 18 086 | 39,873 |
| 6A, Std/XR: | | | | | | | | | | | | | | | | |
| Straight..... | 3.18 | 4.16 | 4161 | 13'8" | 1029 | 40.5" | 505 | 19.9 | 1140 | 44.9" | 409 | 16.1" | 2712 | 5979 | 18 077 | 39,853 |
| Angled 25°..... | — | — | 3778 | 12'5" | — | — | — | — | — | — | — | — | — | — | — | — |
| 6A HD, Std/XR: | | | | | | | | | | | | | | | | |
| Straight..... | 3.93 | 5.14 | 4161 | 13'8" | 1155 | 45.5" | 505 | 19.9" | 1140 | 44.9" | 409 | 16.1" | 3166 | 6980 | 18 684 | 41,192 |
| Angled 25°..... | — | — | 3778 | 12'5" | — | — | — | — | — | — | — | — | — | — | — | — |
| 6SU XL..... | 5.61 | 7.34 | 3269 | 10'8" | 1411 | 55.6" | 459 | 18.1" | 1195 | 47.0" | 743 | 29.3" | 2984 | 6578 | 18 966 | 41,811 |
| 6A XL: | | | | | | | | | | | | | | | | |
| Straight..... | 3.93 | 5.14 | 4161 | 13'8" | 1155 | 45.5" | 524 | 20.6" | 1205 | 47.5" | 409 | 16.1" | 2836 | 6253 | 18818 | 41,486 |
| Angled 25°..... | — | — | 3778 | 12'5" | — | — | — | — | — | — | — | — | — | — | — | — |
| 6S LGP..... | 3.70 | 4.83 | 3990 | 13'1" | 1100 | 43.3" | 655 | 25.8" | 1082 | 42.6" | 701 | 27.6" | 2823 | 6223 | 20486 | 45,163 |

¹Operating weight includes power shift (steering clutches and brakes) arrangement, lubricants, coolant, full fuel tank, 2 valve hydraulic controls, blade with tilt cylinder, ROPS canopy, drawbar, standard shoe.

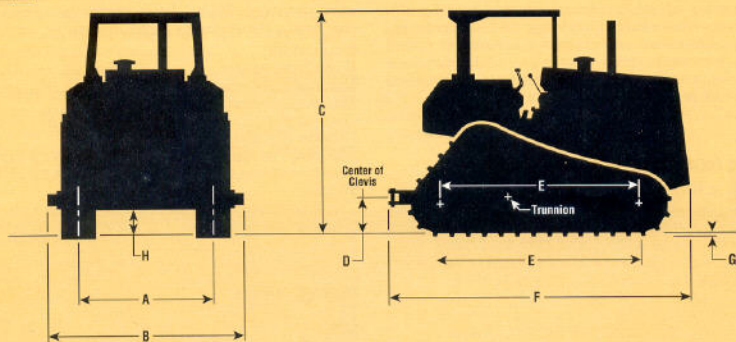
²Operating weight of Standard Arrangement with blade.

³Operating weight of XR Arrangement with blade.

SPECIFICATIONS



Dimensions (approximate)



| Tractor Dimensions | Standard | XL | XR | LGP |
|---|----------------|----------------|----------------|----------------|
| A. Track gauge | 1880 mm/74" | 1880 mm/74" | 1880 mm/74" | 2239 mm/87" |
| B. Width of tractor | | | | |
| Over trunnions | 2640 mm/8'8" | 2640 mm/8'8" | 2640 mm/8'8" | 3428 mm/11'3" |
| Without trunnions (Std. shoe width) | 2440 mm/8'0" | 2440 mm/8'0" | 2440 mm/8'0" | 3140 mm/10'4" |
| C. Machine height from ground face of shoe: | | | | |
| Stack | 3022 mm/9'11" | 3022 mm/9'11" | 3022 mm/9'11" | 3072 mm/10'1" |
| ROPS | 3123 mm/10'3" | 3123 mm/10'3" | 3123 mm/10'3" | 3173 mm/10'5" |
| D. Drawbar height (center of clevis) from ground face of shoe | 504 mm/19.8" | 504 mm/19.8" | 504 mm/19.8" | 560 mm/22.0" |
| E. Length of track on ground | 2630 mm/103.5" | 2836 mm/111.6" | 2774 mm/109.5" | 3265 mm/128.5" |
| F. Length of basic tractor (with drawbar) | 4069 mm/13'4" | 4069 mm/13'4" | 4217 mm/13'10" | 4493 mm/14'9" |
| With the following attachments, add to basic tractor length | | | | |
| Ripper (with tip at ground line) | 1186 mm/46.7" | 1186 mm/46.7" | 1038 mm/3'11" | — |
| Winch | 207 mm/8.1" | 207 mm/8.1" | 53 mm/2.1" | 53 mm/2.1" |
| SU-blade | 1235 mm/48.6" | 1472 mm/50.0" | 1235 mm/48.6" | — |
| S-blade | 1043 mm/41.1" | — | 1043 mm/41.1" | 1218 mm/48.0" |
| A-blade | 1147 mm/45.2" | 1349 mm/53.1" | 1147 mm/45.2" | — |
| G. Height of grouser | 65 mm/2.6" | 65 mm/2.6" | 65 mm/2.6" | 65 mm/2.6" |
| H. Ground clearance* | 377 mm/14.8" | 377 mm/14.8" | 377 mm/14.8" | 389 mm/15.3" |

*From ground face of shoe, per SAE J1234.

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



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. A two-piece master link is standard.



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

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 83 and 85 dB(A).



Hydraulic Controls

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

Pump capacity at 6895 kPa/69 bar/1000 psi:

Steering clutches
and brakes model 193 liters/min/51.0 gpm
Differential steer model 196 liters/min/51.8 gpm

Pump speed at rated engine speed:

Steering clutches and brakes model 1912 RPM
Differential steer model 2019 RPM

Tilt cylinder flow 80 liters/min/21.1 gpm

Relief valve settings:

Bulldozer 19 305 kPa/193 bar/2,800 psi
Tilt cylinder 19 305 kPa/193 bar/2,800 psi

Ripper (standard
tractor only) 19 305 kPa/193 bar/2,800 psi

Drive geared from engine flywheel



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 2202 mm/86.7'
Beam cross section 216 mm x 254 mm/8.5" x 10"
Maximum penetration 500 mm/19.7'
Maximum clearance raised
(shank tip) 511 mm/20.1'
Number of pockets 3
Maximum penetration force 6603 kg/14,557 lb
Maximum pryout force 9134 kg/20,137 lb
Weight:
With one shank 1606 kg/3,541 lb
Each additional shank 74 kg/163 lb



Winch

Weight 1227 kg/2705 lb
Winch length 1073 mm/42.25"
Winch case width 1067 mm/42.0"
Flange diameter 495 mm/19.5"
Drum width 298 mm/11.75"
Drum diameter 260 mm/10.25"
Cable size:
Recommended 22 mm/0.88"
Optional 25 mm/1.0"
Drum capacity:
Recommended cable 76 m/249'
Optional cable 59 m/193'
Oil capacity 52 L/13.8 gal
Cable/ferrule sizes
(OD x length) 54 mm x 67 mm/2.12" x 2.63"



Service Refill Capacities

| | Liters | U.S. Gallons |
|------------------------------|--------|--------------|
| Fuel Tank | 397 | 105 |
| Cooling System | 38 | 10 |
| Lubricating Systems: | | |
| Diesel engine crankcase | 27.5 | 7.3 |
| Power train oil system | 144 | 38 |
| Final drives (each) | 13.2 | 3.5 |
| Hydraulic System (tank only) | | |
| Steering clutches and brakes | 47.3 | 12.5 |
| Differential steer | 45.4 | 12 |

SPECIFICATIONS



Track Roller Frames

Oscillating track roller frames, of tubular construction, resist torsional loads. Recoil system is fully sealed and lubricated. Hydraulic track adjusters are standard.

Lifetime Lubricated rollers and idlers are directly mounted to the roller frame.

Standard, XL and XR roller frames are equipped with end guiding guards. Center guides or full length roller guards are optional.

LGP roller frames are equipped with end guiding guards and center guides. Full length roller guards are optional.



Pivot Shaft and Equalizer Bar

The D6H 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. Large pivot bushings operate in an oil reservoir and remote equalizer bar center pin lube insures long life. The D6H design has excellent ground clearance and provides a smooth underside to prevent collection of mud and debris.

| Undercarriage | Standard | XL | XR | LGP |
|---|--|--|--|---|
| Oscillation (front idlers at gauge line)..... | 112 mm/4.4" | 125 mm/4.9" | 112 mm/4.4" | 179 mm/7.0" |
| Number of rollers (each side)..... | 6 | 7 | 7 | 8 |
| Number of shoes (each side)..... | 39 | 41 | 40 | 45 |
| Width of standard shoe | 560 mm/22" | 560 mm/22" | 560 mm/22" | 915 mm/36" |
| Width of optional shoes | 610 mm/24" | 610 mm/24" | 610 mm/24" | 760 mm/30" |
| Extreme Service | 510 mm/20" | 510 mm/20" | 510 mm/20" | — |
| Self Cleaning | 560 mm/22" | 560 mm/22" | 560 mm/22" | 1000 mm/39" |
| Length of track on ground..... | 2630 mm/103.5" | 2836 mm/111.6" | 2774 mm/109.2" | 3265 mm/128.5" |
| Track gauge..... | 1880 mm/74" | 1880 mm/74" | 1880 mm/74" | 2239 mm/87" |
| Ground contact area of the | | | | |
| following shoe widths..... | | | | |
| 510 mm/20" | 2.68 m ² /4,158 in ² | 2.89 m ² /4,484 in ² | 2.83 m ² /4,386 in ² | — |
| 560 mm/22" | 2.95 m ² /4,566 in ² | 3.18 m ² /4,923 in ² | 3.11 m ² /4,815 in ² | — |
| 610 mm/24" | 3.21 m ² /4,973 in ² | 3.46 m ² /5,363 in ² | 3.38 m ² /5,246 in ² | — |
| 760 mm/30" | — | — | — | 4.96 m ² /7,692 in ² |
| 915 mm/36" | — | — | — | 5.97 m ² /9,261 in ² |
| 1000 mm/39" | — | — | — | 6.53 m ² /10,122 in ² |
| Self Cleaning | — | — | — | — |
| Ground pressures of the | | | | |
| following shoe widths* | | | | |
| 510 mm/20" ES | 0.68 kg/cm ² /9.64 psi | 0.66 kg/cm ² /9.42 psi | 0.67 kg/cm ² /9.48 psi | — |
| 560 mm/22" MS | 0.61 kg/cm ² /8.69 psi | 0.60 kg/cm ² /8.49 psi | 0.60 kg/cm ² /8.55 psi | — |
| 610 mm/24" MS | 0.57 kg/cm ² /8.06 psi | 0.55 kg/cm ² /7.88 psi | 0.56 kg/cm ² /7.93 psi | — |
| 760 mm/30" MS | — | — | — | 0.40 kg/cm ² /5.74 psi |
| 915 mm/36" MS | — | — | — | 0.34 kg/cm ² /4.88 psi |
| Self Cleaning | — | — | — | 0.32 kg/cm ² /4.48 psi |

* Operating weight of Power Shift (steering clutches and brakes) model. See page 13.
ES=Extreme Service, MS=Moderate Service, SC=Self Cleaning.



Transmission

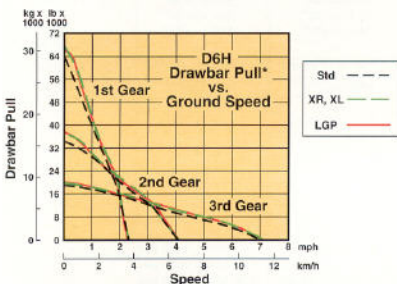
Power Shift

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, and differential steer)

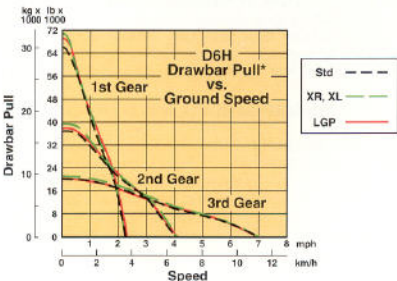
| | 1st | 2nd | 3rd |
|---------------------|-----|-----|------|
| Forward, Km/h | 3.8 | 6.6 | 11.4 |
| MPH | 2.3 | 4.1 | 7.1 |
| Reverse, Km/h | 4.8 | 8.4 | 14.4 |
| MPH | 3.0 | 5.2 | 8.9 |

Power Shift with Steering Clutches and Brakes



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

Power Shift with Differential Steer



*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 four plates. Clutch lubricated and cooled by pressure-circulated oil. Clutch is hydraulically actuated and requires no adjustment.

Standard travel speeds and drawbar pulls:

| Gear | Forward | | Reverse | | Drawbar Pull, forward* | | Max. at lug | |
|------|---------|-----|---------|-----|------------------------|--------|-------------|--------|
| | Km/h | MPH | Km/h | MPH | kg | lb | kg | lb |
| 1 | 2.7 | 1.7 | 3.3 | 2.1 | 12 500 | 27,557 | 16 220 | 35,758 |
| 2 | 3.5 | 2.2 | 4.3 | 2.7 | 9520 | 20,988 | 12 410 | 27,359 |
| 3 | 4.6 | 2.9 | 5.6 | 3.5 | 7140 | 15,741 | 9370 | 20,657 |
| 4 | 5.8 | 3.6 | 7.1 | 4.4 | 5440 | 11,993 | 7200 | 15,873 |
| 5 | 7.6 | 4.7 | 9.2 | 5.7 | 4010 | 8840 | 5300 | 11,684 |
| 6 | 10.0 | 6.2 | 12.2 | 7.6 | 2820 | 6217 | 3840 | 8466 |

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

LGP travel speeds and drawbar pulls:

| Gear | Forward | | Reverse | | Drawbar Pull, forward* | | Max. at lug | |
|------|---------|-----|---------|-----|------------------------|--------|-------------|--------|
| | Km/h | MPH | Km/h | MPH | kg | lb | kg | lb |
| 1 | 2.7 | 1.7 | 3.3 | 2.1 | 12 930 | 28,506 | 17 200 | 37,920 |
| 2 | 3.5 | 2.2 | 4.3 | 2.7 | 9850 | 21,716 | 13 170 | 29,035 |
| 3 | 4.6 | 2.9 | 5.6 | 3.5 | 7410 | 16,336 | 9960 | 21,958 |
| 4 | 5.8 | 3.6 | 7.1 | 4.4 | 5650 | 12,456 | 7660 | 16,887 |
| 5 | 7.6 | 4.7 | 9.2 | 5.7 | 4170 | 9193 | 5710 | 12,588 |
| 6 | 10.0 | 6.2 | 12.2 | 7.6 | 2940 | 6482 | 4100 | 9039 |

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

SPECIFICATIONS



Caterpillar Engine

Gross power^a

| | |
|------------------------|---------------|
| Standard..... | 133 kW/179 HP |
| XL/XR..... | 141 kW/189 HP |
| LGP, Power shift..... | 145 kW/194 HP |
| LGP, Direct drive..... | 137 kW/184 HP |

Flywheel power^b

| | |
|------------------------|---------------|
| Standard..... | 123 kW/165 HP |
| XL/XR..... | 130 kW/175 HP |
| LGP, Power shift..... | 134 kW/180 HP |
| LGP, Direct drive..... | 127 kW/170 HP |

(Kilowatts (kW) is the International System of Units equivalent of horsepower.)

Net power at the flywheel of the machine 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 machine 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^d:

ISO 9249:

| | |
|------------------------|---------------|
| Standard..... | 123 kW/165 HP |
| XL/XR..... | 130 kW/175 HP |
| LGP, Power shift..... | 134 kW/180 HP |
| LGP, Direct drive..... | 127 kW/170 HP |

ISO 3046-2:

| | |
|------------------------|---------------|
| Standard..... | 133 kW/179 HP |
| XL/XR..... | 141 kW/189 HP |
| LGP, Power shift..... | 145 kW/194 HP |
| LGP, Direct drive..... | 137 kW/184 HP |

IEC 80/1269:

| | |
|------------------------|---------------|
| Standard..... | 123 kW/165 HP |
| XL/XR..... | 130 kW/175 HP |
| LGP, Power shift..... | 134 kW/180 HP |
| LGP, Direct drive..... | 127 kW/170 HP |

^a At 1800 RPM for machines equipped with steering clutches and brakes (power shift or direct drive). At 1900 RPM for machine equipped with differential steering (power shift only).

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.



Final Drives

Single-reduction, planetary final drives spread the torque loads over three gears instead of one. 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.

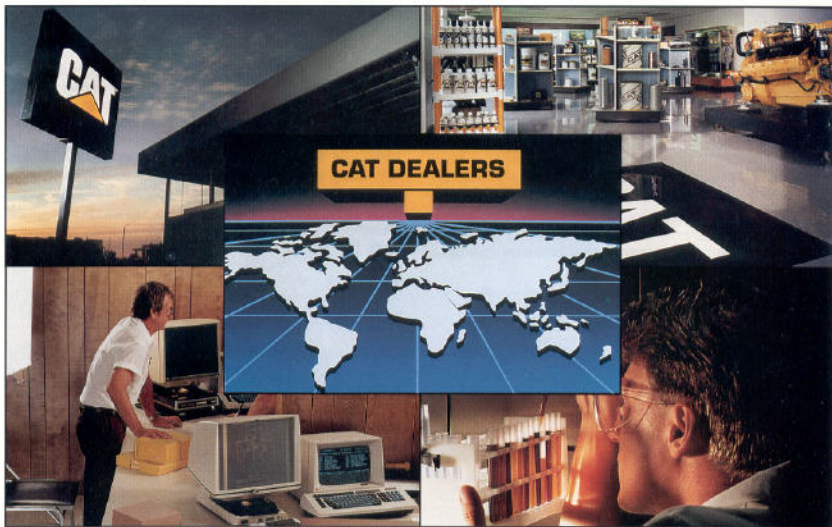
Hand levers combine steering clutch disengagement and braking in one control for each track. Pull back slightly to disengage steering clutches, fully back to brake track.

Differential steer – 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.



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.



Total Customer Support

Unmatched in the industry!

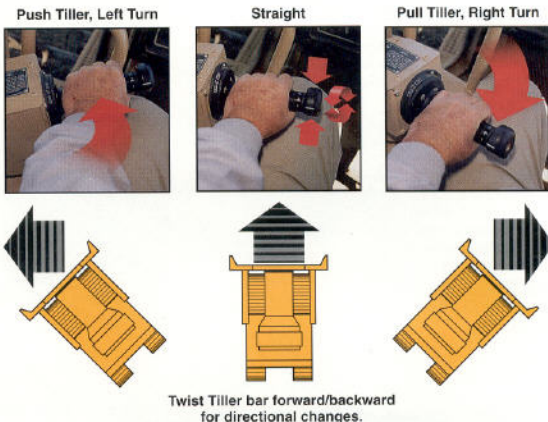
- **Parts availability** — Most Cat parts are immediately available off the shelf. Dealer parts availability is backed by the Cat computer-controlled, emergency search system.
- **Service Capability** — Whether in the dealer's fully equipped shop or in the field, you'll get trained service people using 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 — with Power Shift Transmission)

- **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.
- **High blade heel clearance** and sharp cutting edge angle (S, SU blades) — penetrates tough material easily.
- **Cat moldboard profile on SU blades** loads easily, retains load.
- **L-shaped push arms** (S, SU) allow blades to be mounted closer to front of unit...higher penetration forces for larger blade loads and excellent 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, high penetration and pryout forces.
- **Some application restrictions may apply** on LGP machines equipped with a ripper.

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 General purpose undercarriage that performs well in many applications with firm underfoot conditions.

XL Arrangement

- Delivers unmatched performance in general dozing applications.
- More track to the front, provides a balanced platform for superior traction, dozer control and stability for finish grading.
- Carrier roller for improved fine dozing performance.

XR Arrangement

- XR undercarriage is built to excel in skidding or other drawbar applications.
- More track to the rear positions. Tractor's weight positioned forward to offset heavy drawbar loads and increase traction and stability.

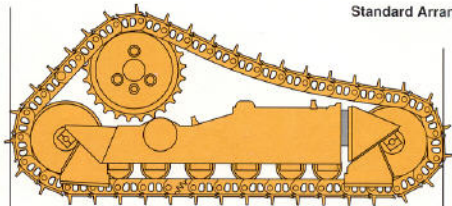
LGP Arrangement

- LGP undercarriage is designed to work in soft and spongy conditions.
- Wide track shoes and long track frame increases track contact area, reducing ground pressure for excellent flotation in swampy conditions.

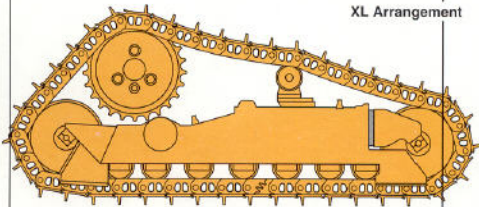
Heavy duty track link

- Standard on LGP model and optional on Standard, XL and XR models.
- Increased durability of link assembly. Components will provide improved strength and greater retention between the link, pin and bushing offering:
 - Improved sealability.
 - Increased link and roller system wear life.
- Track shoes. Choice of moderate service or extreme service shoes in a variety of widths allows you to further tailor the tractor to meet your requirements.
 - Self cleaning shoes are available for the LGP arrangement.

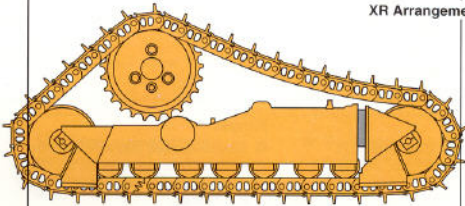
Standard Arrangement



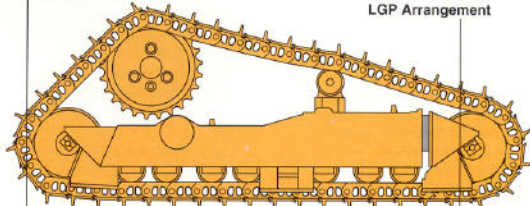
XL Arrangement



XR Arrangement



LGP Arrangement



FEATURES

Elevated Sprocket Undercarriage

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

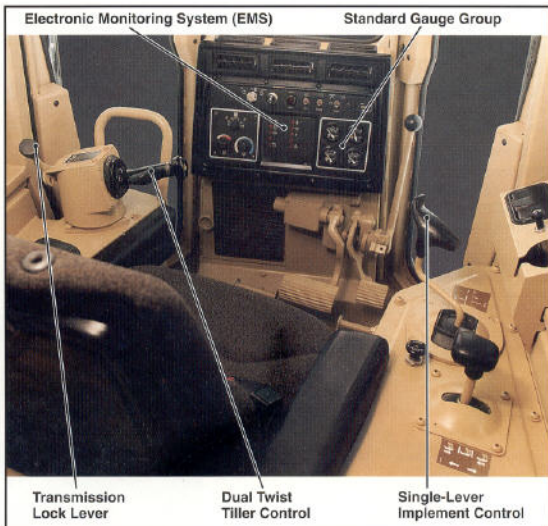
- **Final drives and associated power train components** raised above the work area — isolating them from ground-induced impact loads, as well as implement and roller frame alignment loads — extending power train component life.
- **Sprocket position** keeps sprocket teeth, bushings and final drives away from the abrasive materials and moisture — resulting in longer final drive gear and seal life.



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



Caterpillar Contour Series Seat

Radio (Optional)



The Competitive Edge

Performance

- **Optimum fore and aft balance** — the elevated sprocket design gives the flexibility to optimize balance and stability by tailoring the D6H roller frame mounting location for the best possible performance.
- **Long track-to-ground contact length** — traction and 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.
- **Single-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:

- **Long Undercarriage Arrangement** — uses 8 roller track frame of the LGP, including carrier idler, on the standard gauge machine. Provides the best fine-grading performance on a D6-class machine.
- **Waste Disposal Arrangement** — consists of special modifications and guardings to enable the tractor to work in landfill applications.

For details on matching the D6H Series II to your special applications, contact your Caterpillar dealer.

CATERPILLAR®