



D5H SERIES II

TRACK-TYPE TRACTOR

- **Power Angling and Tilt blade** — with full hydraulic control of lift, dig, angle and tilt...gives exceptional versatility.
- **Load-sensing hydraulic system** — adjusts pump displacement and pressure to load encountered.
- **Excellent fuel efficiency** and productivity.
- **Easy maintenance and repair** — fast daily checks, modular components, reduced downtime.
- **Operating ease** — efficient, comfortable work environment.
- **Total Customer Support System** — unmatched in the industry!

Cat 3304 Turbocharged diesel Engine

Gross power98 kW/132 HP

Flywheel power89 kW/120 HP

Operating weight:

Power shift13 099 kg/28,817 lb

Direct drive13 177 kg/28,990 lb

Blade capacity2.66-3.17 m³/3.48-4.15 yd³

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



SPECIFICATIONS



Engine

Gross power at 2200 RPM98 kW/132 HP
 Flywheel power at 2200 RPM.....89 kW/120 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 J1319 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 2200 RPM:
 ISO 1585.....89.0 kW/120.0 HP
 ISO 3046-1.....98.0 kW/132.0 HP
 EEC 80/126989.0 kW/120.0 HP

Caterpillar four-stroke-cycle, 3304 diesel engine with four cylinders, 121 mm/4.75" bore, 152 mm/6.0" stroke and 7 liters/425 in³ displacement.

Direct-injection fuel system with individual, adjustment-free injection pumps and valves.

Cam-ground and tapered, aluminum-alloy pistons have three rings each and are cooled by oil spray. Steel-backed, copper-bonded aluminum bearings, thru-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-impact and blade-induced loads for long service life. Segmented sprocket for replacement ease.



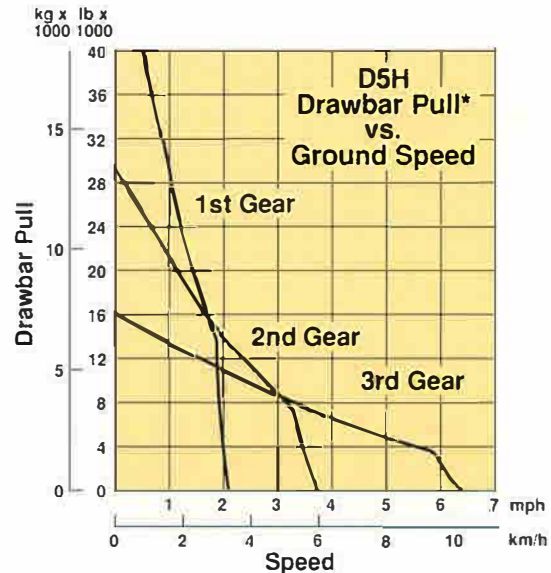
Transmission

Power Shift:

Planetary-type with 279 mm/11.00" diameter high torque-capacity oil clutches. Special valve modulates clutch engagement for fast speed and direction changes. Single-stage torque converter connects directly to flywheel. Oil-to-water exchangers cool the torque converter oil.

Speeds with power shift transmission (approximate):

	1st	2nd	3rd
Forward, Km/h	3.3	5.9	10.0
MPH	2.1	3.7	6.2
Reverse, Km/h	4.2	7.3	12.5
MPH	2.6	4.5	7.8



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

Direct Drive:

Constant-mesh, sliding-collar countershaft transmission. The D5H Series II offers six speeds forward and reverse, enabling the operator to match tractor speed and drawbar pull to job requirements. Helical gears are used. The curvature of the gears allows two teeth to be in contact at all times, sharing the loads. Helical gears also mesh more smoothly for quieter operation.

Flywheel clutch has three discs. Clutch is lubricated and cooled by pressure-circulated oil. Clutch is hydraulically actuated and requires no adjustment. Live PTO for use with 55 winch.

Travel speeds and drawbar pull

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	3.3	2.1	9140	20,150	12 250	27,000
2	3.4	2.1	4.2	2.6	7005	15,440	9435	20,800
3	4.5	2.8	5.6	3.5	5190	11,440	7045	15,530
4	5.8	3.6	7.2	4.5	3835	8,450	5260	11,600
5	7.6	4.7	9.4	5.8	2785	6,140	3880	8,550
6	10.0	6.2	12.4	7.7	1950	4,300	2780	6,130

Transmissions are modular and located at the rear of the tractor for easy removal and installation with or without the bevel and pinion and transfer gears.



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. They also meet FOPS (Falling Object Protective Structure) criteria SAE J231 and ISO 3449.



Cab

Cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 JUL 87, meets OSHA and MSHA requirements for operator sound exposure limits in effect at the time of manufacture.



Sealed and Lubricated Track

Sealed and Lubricated Track surrounds the track pin with lubricant to eliminate internal pin and bushing wear. Lubricant is held in place by a 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 D5H Series II 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 D5H Series II design has excellent ground clearance and provides a smooth underside to prevent the collection of mud and debris.



Hydraulic Controls

Load-sensing hydraulics. A variable-displacement piston pump senses implement load and automatically adjusts flow rate to the load encountered. Sight gauge for checking fluid level. Gear driven from rear of engine.

Implement system:

Flow at maximum
pressure.....108.8 L/min/28.7 gpm at 2200 RPM
Maximum pressure20 670 kPa/3,000 psi



Steering

Hydraulically actuated, multiple-disc, oil-cooled steering brakes are spring engaged and hydraulically released. Clutches are multiple-disc, oil-cooled, hydraulically applied. The disc assemblies provide high load and carrying capability, long life and require no adjustment.

Combined clutch and brake hand controls are located to the operator's left. A single brake pedal, suspended from the dash, brakes both tracks without disengaging the clutches.



Track Roller Frame

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 bushing with remote lub line. Recoil system is fully sealed and lubricated.

Oscillation at front idlers	±83 mm/3.2"
Number of rollers (each side)	6
Number of shoes (each side).....	37
Width of standard shoes	510 mm/20"
optional shoes.....	460 mm/18"
Length of track on ground	2306 mm/91"
Gauge.....	1800 mm/71"
Ground contact area:	
510 mm/20" shoes.....	2.35 m ² /3,646 in ²
460 mm/18" shoes	2.11 m ² /3,276 in ²
Ground pressure:	
510 mm/20" shoes.....	0.557 kg/cm ² /7.90 psi
460 mm/18" shoes.....	0.613 kg/cm ² /8.70 psi
Grouser height	
(from ground face of shoe)	57 mm/2.2"

Note: If the machine of the model shown is not available at the time of booking, it will be replaced with another brand model of machine like "KOMATSU" "LIUGONG" "SHANTUI" etc. specifications of the machine are subject to change by the manufacturer without any prior notice. www.mononbd.com is not liable for any kinds of technical change.