



# CATERPILLAR

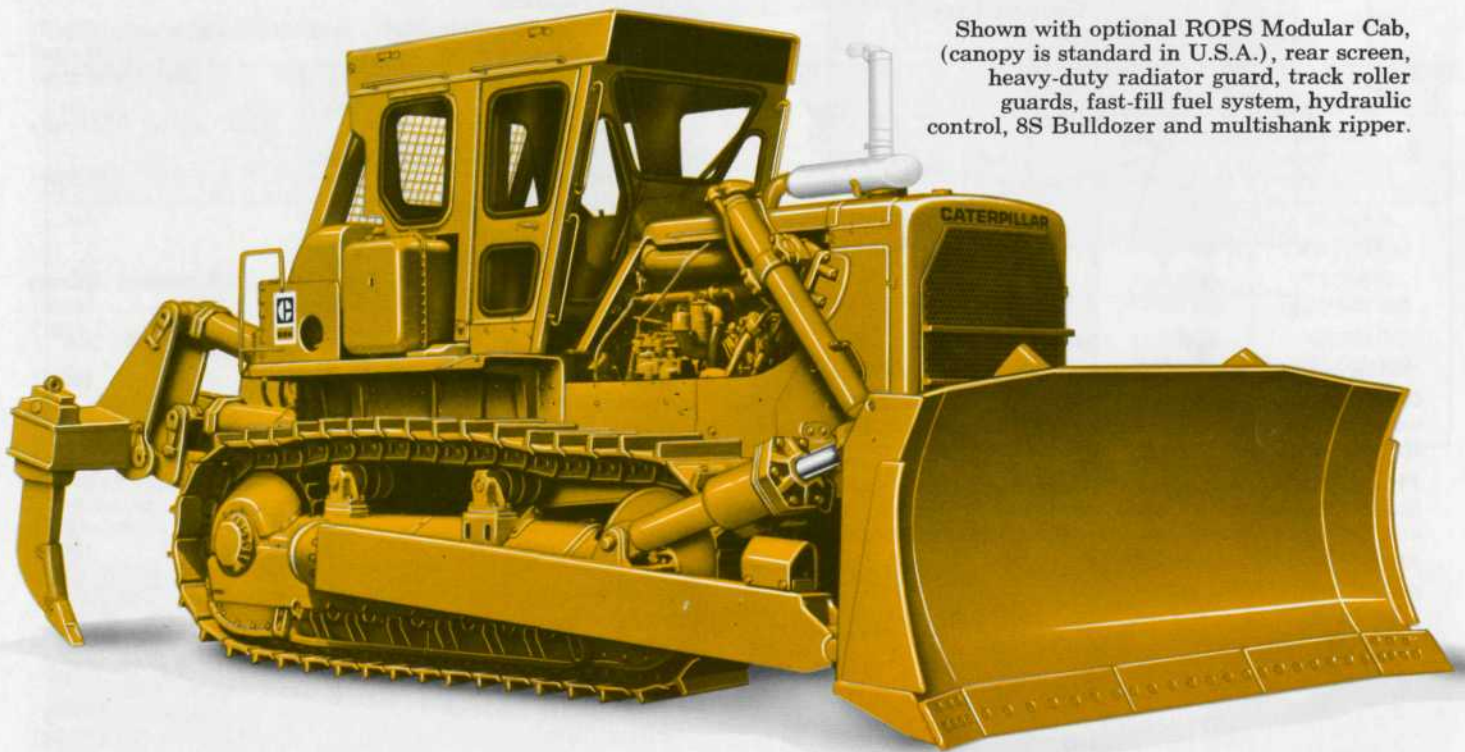
## D8K Track-type Tractor

### Summary of features

- **Turbocharged Cat D342 Engine** delivers 300 flywheel horsepower . . . keeps full rated power up to 7,500 ft. (2300 m) altitude.
- **Sealed and Lubricated Track** greatly reduces internal pin and bushing wear . . . for lower undercarriage maintenance costs.
- **Pinned equalizer bar** reduces bending stresses in sprocket shaft and misalignment of final drive gears and bearings.
- **Complete hand-lever steering** combines clutch disengagement and braking in the same control.
- **Hydraulic pilot controls** make ripper and dozer tilt lever operation easy.
- **Caterpillar Modular Cab** is a self-contained unit with operator protection and improved environment built in . . . sound suppressed . . . tilts rearward for easier servicing of power train components.
- **CAT PLUS** . . . from your Caterpillar Dealer . . . the most comprehensive, total product support system in the industry.



Shown with optional ROPS Modular Cab, (canopy is standard in U.S.A.), rear screen, heavy-duty radiator guard, track roller guards, fast-fill fuel system, hydraulic control, 8S Bulldozer and multishank ripper.



### Caterpillar Engine

Flywheel horsepower @ 1330 RPM . . . . .	300
Kilowatts . . . . .	224

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

*The net power at the flywheel of the vehicle engine operating under SAE standard ambient temperature and barometric conditions, 85° F (29° C) and 29.38" Hg (995 mbar), using 35 API gravity fuel oil at 60° F (15.6° C). Vehicle engine equipment includes fan, air cleaner, water pump, lubricating oil pump, fuel pump and alternator. Engine will maintain specified power up to 7,500 feet (2300 m) altitude.*

Caterpillar four-stroke-cycle Diesel Model D342 with six cylinders, 5.75" (146 mm) bore, 8.0" (203 mm) stroke and 1,246 cu. in. (20.4 litres) piston displacement.

Turbocharged. Individual adjustment-free fuel injection pumps and non-clogging injection valves and precombustion chambers. Stellite-faced valves, valve rotators and hard alloy steel seats.

Spray-cooled, cam-shaped and tapered aluminum alloy pistons with three keystone rings. Both compression rings carried in cast-iron bands. Steel-backed aluminum alloy bearings and Hi-Electro hardened crankshaft journals. Full-flow filtered lubrication. Dry-type air cleaner with automatic dust ejector.

In-seat 24-volt direct electric starting.





## hydraulic controls

Complete system consists of pump, tank, filter, valves, lines, linkage and control levers. Hydraulic pilot controls take most of the effort out of operating the ripper and dozer tilt levers. The six optional hydraulic systems, all with external valves, include:

One valve, for 8A Bulldozer	950 lb. (430 kg)
Two valves, for 8S or 8U Bulldozer and tilt	1,165 lb. (528 kg)
Two valves, for 8A Bulldozer and ripper with manual adjustment	1,070 lb. (485 kg)
Three valves, for 8A Bulldozer and ripper with hydraulic adjustment	1,175 lb. (533 kg)
Three valves, for 8S or 8U Bulldozer, tilt and ripper with manual adjustment	1,280 lb. (580 kg)

Four valves, for 8S or 8U Bulldozer, tilt and ripper with hydraulic adjustment ..... 1,300 lb. (590 kg)

<b>Pump:</b>	
Output @ 1000 psi (69 bar)	78 gpm (295 litres/min)
Tilt cylinder flow	22 gpm (83 litres/min)
RPM @ rated engine speed	1885

Relief valve settings:

Bulldozer	2400 psi (166 bar)
Ripper	2400 psi (166 bar)
Tilt cylinder	2500 psi (172 bar)
Drive	Geared from auxiliary drive

**Control valve positions:**

Bulldozer	Raise, hold, lower, float
Ripper	Raise, hold, lower
Tilt cylinder	Tilt right, hold, tilt left

**Reservoir:**

Mounting	Fender
Tank capacity	18.5 gallons (70 litres)



**Rugged D8K bulldozers** have durable DH-2 cutting edges and end bits. Push arm braces connect to a sliding center ball that absorbs side stress on push arms and blade. A single lever controls all blade movement, including tilt.

## Bulldozer specifications

Blade	Overall Width (tractor with bulldozer)	Height	Digging Depth	Ground Clearance	Maximum Tilt	Weight**	Total Operating Weight *** (tractor with bulldozer)
8S	13'3" * (4040 mm)	5'0" (1520 mm)	20" (510 mm)	4'7" (1400 mm)	40" (1020 mm)	12,080 lb. (5480 kg)	70,500 lb. (31 979 kg)
8U	13'11" * (4240 mm)	5'0" (1520 mm)	20" (510 mm)	4'7" (1400 mm)	41.7" (1060 mm)	13,310 lb. (6040 kg)	71,700 lb. (32 523 kg)
8A, straight	15'6" *† (4720 mm)	3'8" (1120 mm)	24.2" (610 mm)	4'4" (1320 mm)	13" (330 mm)	11,590 lb. (5260 kg)	69,800 lb. (31 661 kg)
Angled 25°	14'0" (4270 mm)	3'8" (1120 mm)	31" (790 mm)	5'2" (1570 mm)	13" (330 mm)	--	--

\*Width over hot cupped end bits. Width over standard forged end bits is 4" (102 mm) less.

†Width with C-frame only is 11'5" (3480 mm).

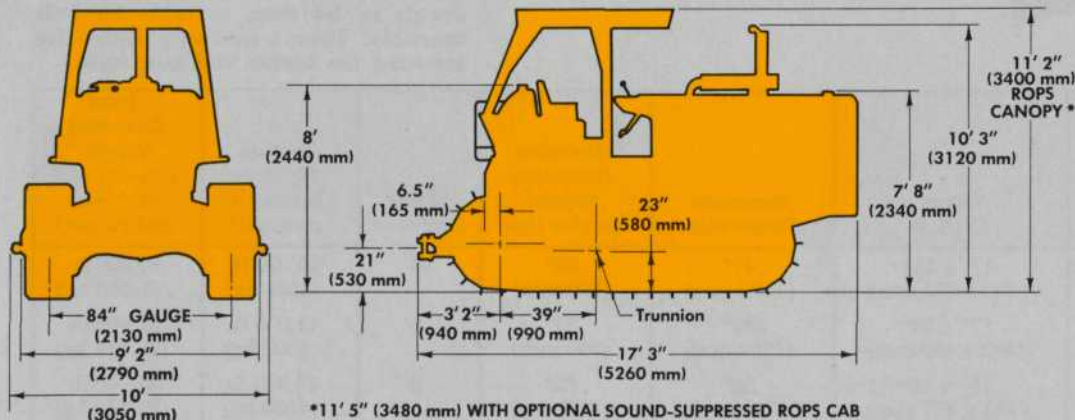
\*\*Does not include hydraulic controls, but 8S and 8U include blade tilt cylinder.

\*\*\*Includes hydraulic controls, blade tilt cylinder (8S and 8U), lubricants, coolant, full fuel tank, ROPS canopy and operator.



## dimensions (approximate)

Ground clearance, from ground face of shoe (per SAE J894) ..... 17.1" (434 mm)  
 Drawbar height (from ground face of shoe) .... 21" (530 mm)



\*11' 5" (3480 mm) WITH OPTIONAL SOUND-SUPPRESSED ROPS CAB

WITH FOLLOWING ATTACHMENTS, ADD TO BASIC TRACTOR LENGTH OF 17' 3" (5260 mm):

SINGLE SHANK RIPPER	6' 7" (2010 mm)
MULTISHANK RIPPER	5' 0" (1520 mm)
S-DOZER	4' 4" (1320 mm)
U-DOZER	5' 5" (1650 mm)
A-DOZER	4' 5" (1350 mm)
A-DOZER ANGLED 25°	7' 5" (2260 mm)
C-FRAME ONLY	2' 8" (810 mm)





### standard equipment

24-volt direct electric starting. 35-amp alternator. Muffler. Rain cap. Fuel priming pump. 7-roller track frame. 22" (560 mm) grouser tracks (41 section). Hydraulic track adjusters. Sealed and Lubricated Track. Pinned equalizer bar. Rigid drawbar. ROPS canopy (U.S.A. only). Suspension seat.

Seat belt. Turbocharger. Reversible fan with automatic belt tension adjustment. Engine oil cooler. Coolant flow warning horn. Spin-on oil and fuel filters. Dry-type air cleaner and automatic dust ejector. Crankcase guard. Front pull hook. Hinged radiator guard. Decelerator. Forward warning horn (U.S.A. only). Steel final drives cases.



### optional equipment

(with approximate installed weights)

Air conditioner with heater .....	132 lb. (60 kg)
Without heater .....	104 lb. (47 kg)
Alternator, 50-amp .....	11 lb. (5 kg)
Cab, ROPS, sound suppressed:	
Power shift .....	1,110 lb. (500 kg)
Direct drive .....	1,525 lb. (690 kg)
Cab accessory group .....	15 lb. (7 kg)
Canopy, ROPS (standard in U.S.A.) .....	1,670 lb. (760 kg)
Counterweight, rear mounted .....	3,350 lb. (1520 kg)
Front mounted .....	2,000 lb. (907 kg)
Drawbar, swinging .....	265 lb. (120 kg)
Engine enclosure, for use with ROPS cab .....	190 lb. (86 kg)
For use without ROPS cab .....	318 lb. (144 kg)
Fan blast deflector .....	17 lb. (8 kg)
Fast-fill fuel system .....	11 lb. (5 kg)
Fire extinguisher .....	30 lb. (14 kg)
Guards:	
Crankcase, extreme service .....	333 lb. (151 kg)
Engine, upper .....	142 lb. (64 kg)
Radiator, hinged, heavy duty .....	175 lb. (79 kg)
Track roller .....	860 lb. (390 kg)
Heaters:	
Cab .....	28 lb. (13 kg)
Engine coolant .....	7 lb. (3 kg)
Horn .....	5 lb. (2 kg)
Hour meter, electric .....	1 lb. (0.5 kg)
Idlers, extreme service .....	248 lb. (112 kg)

### Lighting systems:

Four lights, for use with ROPS mounting .....	80 lb. (36 kg)
Rear light, for use with ripper (requires four-light system) .....	23 lb. (10 kg)
Oil change system, quick service .....	6 lb. (3 kg)
Prescreener .....	6 lb. (3 kg)
Radiator core protector grid .....	82 lb. (37 kg)
Ripper pin puller, hydraulic, for single shank ripper only .....	137 lb. (62 kg)
Ripper solid upper link, for manual shank adjustment .....	-226 lb. (-103 kg)
Screen, for ROPS cab or canopy .....	64 lb. (29 kg)
Seat, shock dampening .....	25 lb. (11 kg)
Starting receptacle .....	3 lb. (1 kg)
Sweep, logging .....	374 lb. (170 kg)
Tool kit .....	15 lb. (7 kg)
Tracks, pair, Sealed and Lubricated:	
22" (560 mm) extreme service .....	980 lb. (445 kg)
24" (610 mm) .....	328 lb. (149 kg)
24" (610 mm) extreme service .....	1,480 lb. (670 kg)
26" (660 mm) .....	980 lb. (445 kg)
28" (710 mm) .....	1,310 lb. (590 kg)
Sealed, non-lubricated track, 22", 22" extreme service, 24", 26", 28" also available. (Weights are same as above.)	
Vandalism protection:	
Instrument panel guard .....	7 lb. (3 kg)
Cap locks for:	
Fuel tank .....	1 lb. (0.5 kg)
Hydraulic tank .....	1 lb. (0.5 kg)
Oil filler .....	1 lb. (0.5 kg)
Radiator .....	4 lb. (2 kg)
Winch .....	3,510 lb. (1592 kg)
Windshield wiper (cab rear) .....	6 lb. (3 kg)

Materials and specifications are subject to change without notice.