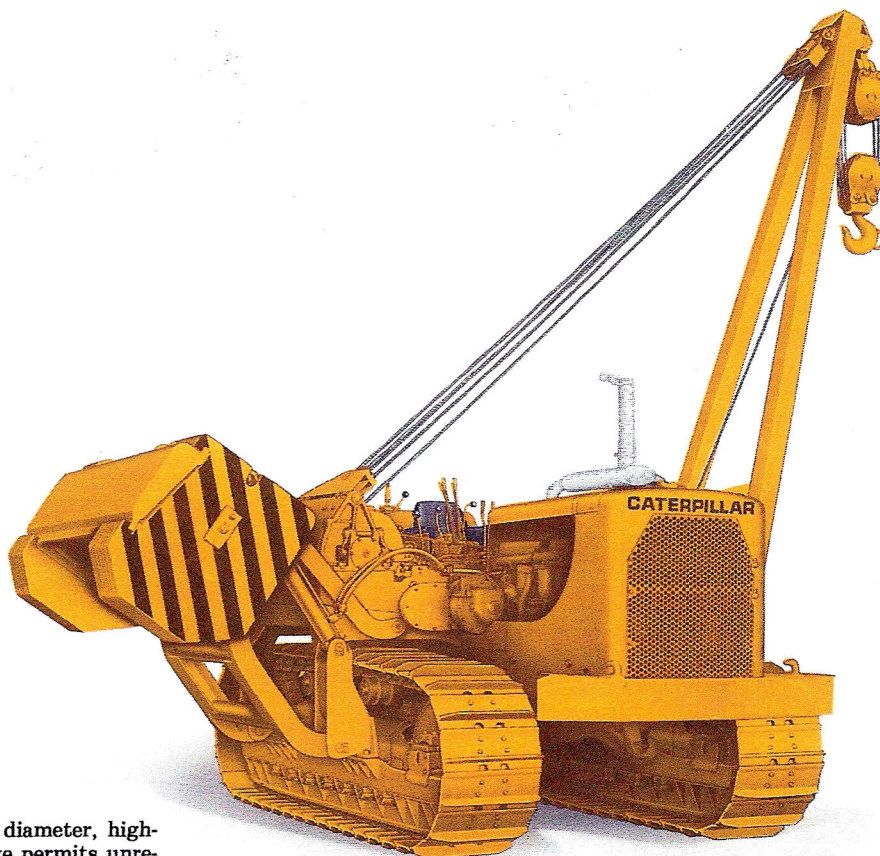


# CATERPILLAR

## 583K Pipelayer

### Summary of features

- 224 kW/300 HP flywheel power
- 63 500 kg/140,000 lb. lift capacity
- Planetary power shift transmission
- Bolt-on sprocket rim segments
- Sealed Track



### transmission

Planetary power shift with 530 mm/21" diameter, high-torque-capacity oil clutches. Special valve permits unrestricted speed and direction changes under full load.

Single-stage torque converter with output torque divider combines smoothness and economy. Connected to transmission by double universal joint for unit construction to provide servicing ease.

Gear	Forward Speed		Reverse Speed	
	Km/h	MPH	Km/h	MPH
1	4.0	0-2.5	5.0	0-3.1
2	7.1	0-4.4	8.7	0-5.4
3	10.9	0-6.8	13.5	0-8.4



### counterweights

Fully hydraulic control. High mounting of counterweight pivot point gives excellent side and bottom clearance. Over-center design prevents creep-out when retracted. Minimum overall width for easier maneuvering and shipping.



### undercarriage

Sealed Track extends pin and bushing life and reduces wear on links and rollers. Track rollers, carrier rollers and idlers are Lifetime Lubricated. Sprockets have bolt-on rim segments. Two-piece master track links.

Number of track rollers (each side)	7
Track gauge	2290 mm/90"
Number of track shoes, each side	42
Track shoe width (standard)	710 mm/28"
Optional width	760 mm/30"
Track length on ground	3280 mm/129"
Ground contact area (standard shoes)	4.65 m <sup>2</sup> /7,220 sq. in.
Ground clearance from ground face of shoe	530 mm/21"
Grouser height from ground face of shoe	78 mm/3.06"



### boom control

Safety pawl holds boom drum. Interlock prevents accidental reversal with pawl engaged. Safety kickout prevents boom bending.



### Caterpillar Engine

Flywheel power @ 1330 RPM . . . . . 224 kW/300 HP (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, 29°C/85°F and 995 mbar/29.38" Hg., using 35 API gravity fuel oil at 15.6°C/60°F. Vehicle engine equipment includes fan, water pump, lubricating oil pump and fuel pump. Engine will maintain specified power up to 2300 m/7,500 ft altitude.*

Caterpillar 4-stroke-cycle D342 diesel Engine with six cylinders, 146 mm/5.75" bore, 203 mm/8.0" stroke and 20.4 liters/1,246 cu. in. displacement.

Turbocharged. Precombustion chamber fuel system with individual, adjustment-free fuel injection pumps and valves. Stellite-faced valves and alloy steel seats.

Spray-cooled, three-ring, cam-shaped and tapered aluminum alloy pistons. Steel-backed aluminum alloy bearings and Hi-Electro hardened crankshaft journals. Pressure lubricated with full-flow filtered oil. Dry-type air cleaner with automatic dust ejector.

24-volt direct electric starting. 35-amp alternator.