

CATERPILLAR



Summary of features

- 306 kW/410 HP flywheel power
- 90 700 kg/200,000 lb. lift capacity
- Planetary power shift transmission
- Bolt-on sprocket rim segments
- Sealed Track



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

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

	Forward Speed		Reverse Speed	
Gear	Km/h	MPH	Km/h	MPH
1	4.0	0-2.5	5.0	0-3.1
2	6.9	0-4.3	8.7	0-5.4
3	10.8	0-6.7	13.2	0-8.2



Hydraulically actuated, multiple-disc oil clutches with 30 friction surfaces in each clutch. Hydraulically boosted. oil-cooled contracting band brakes.

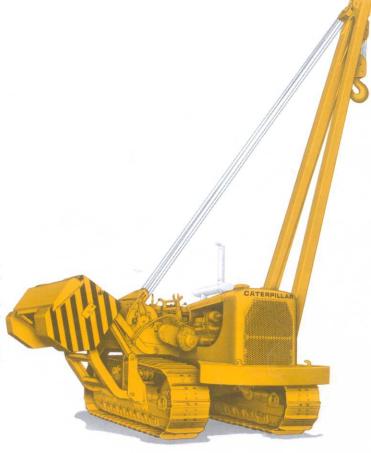
undercarriage

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 replaceable rim segments.

8
540 mm/100"
.860 mm/34"
1020 mm/40"
0 mm/147.75"
/10,050 sq. in.
. 630 mm/25"
87 mm/3.44"

counterweights

Full 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.



boom control

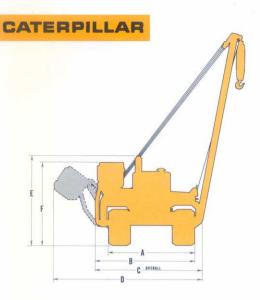
Safety pawl holds boom drum. Interlock prevents accidental reversal with pawl engaged. Safety kickout prevents boom bending.

Caterpillar Engine

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 full power up to 2300 m/7,500 ft. altitude.

Caterpillar 4-stroke-cycle D353 diesel Engine with 6 cylinders, 159 mm/6.25" bore, 203 mm/8.0" stroke and 24.2 liters/1,473 cu. in. piston displacement.

Turbocharged and aftercooled. Individual, adjustment-free fuel injection pumps and non-fouling precombustion chambers. Stellite-faced valves, valve rotators and hard alloy steel seats. Spray-cooled, cam-shaped and tapered aluminum alloy pistons with three-ring design. Both compression rings carried in cast-iron bands. Full-flow filtered lubrication. Dry-type air cleaner. 24-volt direct electric starting. 35-amp alternator.



dimensions

(both side frames removed)
(B) Shipping width
(left frame removed)
(C) Width, weights retracted
(D) Width, weights extended
(E) Height, less boom
(F) Height to top of counterweights 3070 mm/10'.75"
Overall length

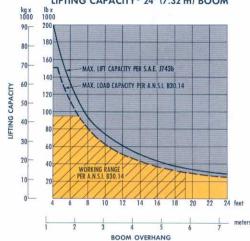
service refill capacities

		U.S. Gallons
Fuel tank	760	200
Cooling system		41
Counterweight hydraulic control	37.9	10
Lubricating system:		
Crankcase	42.6	11.25
Transmission, steering clutches		
and brakes	129	34
Final drives (each)	42.6	11.25

weights (approximate)

	Kg	Lb
Chassis only	35 100	77,300
Pipelaying equipment with		
counterweights	20 400	45,000
Shipping	55 500	122,300

LIFTING CAPACITY* 24' (7.32 m) BOOM



*Specified Equipment: 19 mm/34" dia. wire rope 21 591 kg/47,600 lb minimum breaking strength. 8 part load line.

12 556 kg/27,680 lb of counterweights extended

pipelaying equipment

Counterweights, adjustable, hydraulically controlled:

Counterweight frame	1180 kg/2,600 lb.
17 segments at 600 kg/1,330 lb. each 10	180 kg/22,440 lb.
Counterweight lift frame	. 910 kg/2,000 lb.
Hydraulic cylinders, lift links	
and hardware	290 kg/640 lb.
Total weight extendable	560 kg/27,680 lb.

Live power: Continuous power to pipelayer winches, independent of torque converter.

Winch transmission: Constant mesh, built by Caterpillar. 3 speeds for raising, 1 for lowering.

Drums: Operated independently or simultaneously.

	Load	Boom
Drum diameter	260 mm/10.25"	260 mm/10.25"
Brake diameter	560 mm/22"	560 mm/22"
Length (inside flanges)	356 mm/14"	178 mm/7"
Capacity with 19 mm/.75"		
cable	189 m/620'	78 m/255'

Hook speed (bare drum):

Raise:	M/min	FPM
First	 4.02	13.2
Second	 8.0	26.1
Third	 19.0	62.5
Lower	 8.6	28.1

Clutch: Two-plate, 290 mm/11.4" diameter, friction, independent of flywheel clutch.

Brakes: Interchangeable between boom and load line drums, self-energizing, protected from weather, 560×127 mm/22" \times 5".

Boom: Welded box-section. Standard length: 7310 mm/24'. Optional: 8530 mm/28'.

Materials and specifications are subject to change without notice.