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| 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. | | | | | | | Transmission | Forward Speed | | Reverse Speed | | | Gear | 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   |  | | --- | | Adjustable, hydraulically controlled | | Counterweight frame | 1,450 kg | 3,200 lb | | 13 segments at 600 kg / 1,330 lb. each | 7,840 kg | 17,290 lb | | Counterweight lift frame | 700 kg | 1,540 lb | | Hydraulic cylinders, lift links & hardware | 290 kg | 640 lb | | Total weight extendable | 10,280 kg | 22,670 lb |   Full hydraulic control. High mounting 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. | | | | |  |  |  | | Track guage | 2,290 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 | 3,280 mm | 129" | | Ground contact area (standard shoes) | 4.65 sq. m | 7,220 sq. in. | | Ground clearance from ground face of shoe | 530 mm | 21" | | Grouser height from ground | 78 mm | 3.06" |   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 degrees Celsius/85 degrees Fahrenheit and 995 mbar / 29.38" Hg. using 35 API gravity fuel oil at 15.6 degress Celsius / 60 degrees Fahrenheit. Vehicle engine equipment includes fan, air cleaner, water pump, lubricating oil pump, fuel pump and alternator. Engine will maintain specified power up to 2300 m/ 7,500 ft. altitude.  Caterpillar 4-stroke-cycle D342 diesel Engine with 6 cylinders, 146 mm / 5.75" bore, 203 mm/8.0" stroke and 20.4 liters/ 1,246 cu. in. displacement.  Turbocharged. Individual adjustment-free injection pumps and non-fouling precombustion chambers. Stellite-faced valves, valve rotators and hard alloy steel seats. Cam-ground and tapered aluminum alloy pistons with 3-ring design, cooled by oil spray. Steel-backed aluminum bearings, Hi-Electro hardened crankshaft journals. Pressure lubrication with full-flow filtered oil. Dry-type air cleaner with primary and safety elements. 24-volt direct electric starting. 35-amp alternator. |   Dimensions   Dimensions Graph for 583K   |  |  | | --- | --- | |  |  | | (B) Height to top of counterweights | 2790 mm / 9'2" | | (C) Height to top of stack (less boom) | 3120 mm /10'3" | | (D) Minimum shipping width counterweights removed | 3070 mm / 10'1" | | (E) Shipping width (left frame removed) | 3430 mm / 11'3" | | (F) Width, adjustable counter weight retracted | 3660 mm / 12' | | (G) Width, adjustable counter weight extended | 5160 mm / 16'11" | | ---- Overall length | 5660 mm / 18'7" |   Service refill capacities   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Service refill capacities | | Liters | U.S. Gallons | | | | Fuel tank | | 435 | 115 | | | | Cooling system | | 121 | 32 | | | | Counterweight hydraulic control | | 37.9 | 10 | | | | Transmission steering clutches & brakes | | 117 | 31 | | | | Final drives (each) | | 36 | 9.5 | | | | Diesel engine crankcase | | 33.1 | 8.75 | | | | Cat 583K Lifting Capacity chart | Lifting Capacity 6.10 m / 20' boom  Specified Equipment   * Six part load line * 19 mm / .75" dia. wire rope 21,591 kg / 47,600 lb minimum breaking strength * 5 part boom line * 10,283 kg / 22,670 lb of counterweights extended | | | | | Weights | | Kg | | Lbs | | | Chassis only | | 24,950 | | 55,000 | | | Pipelaying equipment with counterweights | | 15,650 | | 34,500 | | | Shipping | | 40,600 | | 89,500 | |   Pipelaying equipment   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Live power: Continuous power to pipelayer winches, independent of torque converter.  Winch transmission: Sliding gear, built by Caterpillar. 3 speeds for raising, 1 for lowering  Clutch: Two plate, 290 mm/11.4" diameter, friction type, independent of flywheel clutch.  Boom: Welded box section. Length - - 6100 mm / 20'  Brakes: Interchangeable between boom and load line drums, self-energizing, protected from weather, (diameter x width), 260 x 127 mm / 22" x 5". | | | | | | | | | | 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" load cable | 189 m | | 620' | | 78 m | | 255' | | | Hook speed (bare drum) | | 3-part load line | | | |  | | | |  | | M/min | | FPM | |  | |  | | Raise | |  | |  | |  | |  | | . . First | | 5.5 | | 18.2 | |  | |  | | . . Second | | 11.0 | | 36.2 | |  | |  | | . . Third | | 26.5 | | 87.0 | |  | |  | | Lower | | 11.9 | | 39.0 | |  | |  | |