## D6K Light Bulldozer

Joint Services
Family of Dozers

<table>
<thead>
<tr>
<th>Cat® C6.6 ACERT™ Engine</th>
<th>Weight – Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flywheel Power</td>
<td>Winch Equipped</td>
</tr>
<tr>
<td></td>
<td>14 487 kg</td>
</tr>
<tr>
<td></td>
<td>31,940 lb</td>
</tr>
<tr>
<td></td>
<td>Ripper Equipped</td>
</tr>
<tr>
<td></td>
<td>14 614 kg</td>
</tr>
<tr>
<td></td>
<td>32,220 lb</td>
</tr>
</tbody>
</table>
The Cat® D6K – Tested, Proven, and Reliable – Mission Capable

The Cat D6K Bulldozer is a highly productive machine. The bulldozer is equipped with either a hydraulic winch or a multi-shank ripper. The D6K provides unsurpassed operational readiness for the construction of airfields, roads, landing zones, defensive berms, anti-tank ditches, and other key military construction missions.

The D6K is also designed to incorporate transportability features for rapid deployment. Removal of the split cab allows the bulldozer to be air transportable on the C-130 in a drive-on, drive-off configuration.

The foldable bulldozer blade simplifies C-130 air transport and reduces the transportation burden for the Military by eliminating the need to remove the blade. This benefits Engineer units by allowing operators to drive the bulldozer off the aircraft and immediately begin critical missions. The D6K is also C-130 airdrop capable.

ATTACHMENTS

Each of these attachments increases the capability and versatility of the D6K, while adding tremendous efficiency benefits.

Bulldozer Blade
The blade is specifically designed for finish grading, backfilling ditches, cutting V-ditches, windrowing, fill spreading and general dozing. The bulldozer blade lift, angle and tilt are all adjustable. The blade is foldable reducing width to less than 8.5 feet for transport.

Winch Equipped
The hydrostatic winch is equipped with a drawbar and offers outstanding control of the load with infinitely variable modulation of speed and pull. It can also be equipped with roller fairleads for extended winch cable service life.

Multi-Shank Ripper
The ripper, with three straight shanks, is designed to penetrate tough material and rip thoroughly for improved blade loads during dozing.
Cat® C6.6 Engine with ACERT™ Technology. The Cat C6.6 six cylinder engine meets the U.S. EPA Tier 3 emissions standard. The engine has proven performance and reliability in many applications. The C6.6 is equipped with an Electronic Control Module (ECM) that uses data from engine-mounted sensors to adjust critical parameters to maintain optimum performance. The ECM also allows technicians to easily troubleshoot and repair the engine.

Hydrostatic Drive. The electronically controlled hydrostatic drive system automatically maintains engine speed to match power requirements for peak performance. The hydrostatic drive train offers independent power and control of each track, for fast acceleration and quick directional changes.

Infinitely Variable Speed Control. Hydrostatic drive provides infinite speed selection from 0 to 10 km/h (0 to 6.2 mph) in forward and reverse, eliminating power interruption during shifting.

Ground Speed Balancing. Ground speed is automatically balanced against implement load and drawbar pull requirements for increased efficiency and simple operation. As implement loads increase, ground speed is automatically reduced to use full engine power.

Unsurpassed Maneuverability. Power turns enable the D6K to handle large loads through corners and increase control during side slope operation. Counter-rotation allows the bulldozer to make a 360-degree turn within the length of the machine.
MISSION CAPABLE

The Cat® D6K – Tested, Proven, and Reliable – Mission Capable

Torque Rise. The direct injection electronic fuel system provides controlled fuel delivery as the engine lugs from rated speed. A combination of increased torque rise and maximum horsepower improves response, provides greater drawbar pull and faster dozing cycles.

Oscillating Undercarriage. The pinned equalizer bar, saddle-mounted beneath the mainframe, allows the roller frames and track to oscillate independently from side to side. The oscillation provides a steady working platform and smooth ride for the operator.

Roller Frames. The track roller frames attach to the tractor by pivot shafts and pinned equalizer bar. Each roller frame also includes supplemental air transport tiedowns.
OPERATOR SAFETY/COMFORT

The Cat® D6K – Tested and Proven – Ready to Work

Operator Comfort. The D6K operator station is designed for comfort and ease of operation.

- Isolation-mounted, pressurized cab reduces noise and vibration for operator comfort.
- Low effort, electro-hydraulic controls reduce operator fatigue.
- Large single-pane door windows create excellent view of the blade.
- Fully adjustable air suspended seat maximizes operator comfort.
- Combined brake and decel pedal along with joystick mounted thumb wheel provides precise speed control.
- Independently adjustable, seat-mounted controls isolate vibrations from operator.

Crew Protection Kit. The armored Crew Protection Kit (CPK) on the D6K was developed with the Troop’s protection and survivability in mind. The armored cab provides the operator with 360° protection, including the roof and the floor, from small arms and fragmentation threats. An emergency egress hatch is provided in the roof, and is accessible from both the inside by the operator and from the outside by rescue personnel. The transparent armor provides excellent operator visibility of the machine and surrounding work area. These features of the CPK allow the troops to complete military tasks safely and effectively.
**SERVICEABILITY**

*The Cat® D6K – Tested, Proven, and Reliable – Mission Capable*

**Cooling Package.** Cores and fan are accessible from ground level, for easy cleaning and maintenance. Opening the front grill allows full access to the engine fan. The fan is mounted on a tilting door that provides access to the cores, while the other side of the cores is accessible through the engine compartment.

**Monitoring Systems.** The D6K dozer maximizes on-board diagnostics capability using electronic control modules (ECMs) to monitor engine and machine systems. Cat Electronic Technician (ET) software accesses information from the ECMs allowing technicians to view status parameters, logged codes, active codes, perform functional tests, and record and view data logs of equipment operation. The instrument panel conveniently displays fault or event codes, while the Messenger system (mounted inside the cab) provides text related to the fault code. This diagnostic capability allows Military Units to maintain dozer readiness while minimizing the maintenance burden.

**Maintenance.** Proper maintenance of your dozer will keep it running at top performance with minimal downtime. The D6K provides unmatched serviceability by offering:

- Ground level access to grouped hydraulic system pressure taps
- Ecology drains for simple and clean fluid drainage
- Easy access to engine compartment
- Left-hand side grouped engine service points
- Electric fuel priming pump
- Modular Hystat components for easy repair or replacement
- Cooling package cores and fan accessible from ground level
- Military sampling valves

**Remanufactured Parts.** Cat engines and major components are designed to be remanufactured and provide multiple life cycles. Components are remanufactured in the factory to original specifications with necessary product updates.
**Service Life Extension Program.** The Service Life Extension Program (SLEP) is based upon a highly successful program currently in place with the DoD for the modernization of the U.S. military’s construction and material handling equipment. As a result, thousands of Cat machines are now realizing a second life. The SLEP process is performed at strategically selected dealers throughout the Caterpillar worldwide dealer network.

The SLEP efforts have proven to be a great value for the DoD. The fact that this work can be done at Caterpillar dealer sites saves the Government millions in shipping costs.

**Worldwide Locations.** The Caterpillar global network of authorized dealers supports the U.S. Military in every corner of the globe. With heavy construction equipment dealers located in over 200 countries, Caterpillar’s support organization provides global coverage.

**Service Capabilities.** Cat field service technicians have the experience and tools necessary to service your machine on-site. Field service trucks are fully loaded with state-of-the-art tools and diagnostic equipment as well as specifications and schematics for every Cat machine. Technical experts at the dealership and Caterpillar are available to provide assistance to field service technicians when needed. When on-site repair isn’t enough, Cat dealerships are fully-equipped to service your bulldozer quickly.

**Dealer Support.** The Caterpillar global network of authorized dealers is the best in the world at providing support to keep your equipment up and running. With 99.7% of parts shipped within 24 hrs, Cat Dealers are supporting the Family of Dozers.
Engine

Model | Cat® C6.6 ACERT™
Flywheel Power | 93 kW | 125 hp
Net Power – Cat | 93 kW | 125 hp
Net Power – ISO 9249 | 93 kW | 125 hp
Net Power – SAE J1349 | 92 kW | 123 hp
Net Power – EU 80/1269 | 93 kW | 125 hp
Bore | 105 mm | 4.13 in
Stroke | 127 mm | 4.99 in
Displacement | 6.6 L | 403 in³

- Engine Ratings at 2100 RPM
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No derating required up to 3000 m (9842 ft) altitude, beyond 3000 m (9842 ft) automatic derating occurs.

Service Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
<th>Refill Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>479 L</td>
<td>126.5 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>77.4 L</td>
<td>20.4 gal</td>
</tr>
<tr>
<td>Engine Crankcase</td>
<td>31 L</td>
<td>8.2 gal</td>
</tr>
<tr>
<td>Power Train</td>
<td>178 L</td>
<td>47 gal</td>
</tr>
<tr>
<td>Final Drives (each)</td>
<td>13 L</td>
<td>3.4 gal</td>
</tr>
<tr>
<td>Roller Frames (each)</td>
<td>24.6 L</td>
<td>6.5 gal</td>
</tr>
<tr>
<td>Attachment Hydraulic System (Tank Only)</td>
<td>54 L</td>
<td>14.3 gal</td>
</tr>
<tr>
<td>Pivot Shaft Compartment</td>
<td>1.9 L</td>
<td>0.5 gal</td>
</tr>
</tbody>
</table>

Weights

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winch Equipped</td>
<td>14,487 kg</td>
</tr>
<tr>
<td>Ripper Equipped</td>
<td>14,614 kg</td>
</tr>
</tbody>
</table>

Undercarriage

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
<th>Refill Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of Shoe</td>
<td>510 mm</td>
<td>20 in</td>
</tr>
<tr>
<td>Shoes/Side</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Grouser Height</td>
<td>48 mm</td>
<td>1.9 in</td>
</tr>
<tr>
<td>Track Gauge</td>
<td>1770 mm</td>
<td>70 in</td>
</tr>
<tr>
<td>Track on Ground</td>
<td>2645 mm</td>
<td>104 in</td>
</tr>
<tr>
<td>Ground Contact Area</td>
<td>3 m²</td>
<td>4,650 in²</td>
</tr>
<tr>
<td>Ground Pressure</td>
<td>42.5 kPa</td>
<td>6.16 psi</td>
</tr>
<tr>
<td>Track Rollers/Side</td>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>

Blade - Foldable

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Capacity</td>
<td>2.7 m³</td>
</tr>
<tr>
<td>Blade Width</td>
<td>3077 mm</td>
</tr>
<tr>
<td>Blade Width (folded)</td>
<td>2421 mm</td>
</tr>
</tbody>
</table>

Ripper - Multi-Shank

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Parallelogram</td>
</tr>
<tr>
<td>Number of Pockets</td>
<td>3</td>
</tr>
<tr>
<td>Overall Beam Width</td>
<td>1951 mm</td>
</tr>
<tr>
<td>Beam Cross Section</td>
<td>165 x 211 mm/6.5 x 8.3 in</td>
</tr>
<tr>
<td>Maximum Penetration</td>
<td>360 mm</td>
</tr>
<tr>
<td>Weight – With One Shank</td>
<td>845 kg</td>
</tr>
<tr>
<td>Weight – With Three Shanks</td>
<td>913 kg</td>
</tr>
</tbody>
</table>
Winch

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winch Model</td>
<td>PA50</td>
</tr>
<tr>
<td>Weight*</td>
<td>907 kg</td>
</tr>
<tr>
<td>Winch and Bracket Length</td>
<td>842 mm</td>
</tr>
<tr>
<td>Winch Case Width</td>
<td>905 mm</td>
</tr>
<tr>
<td>Drum Diameter</td>
<td>203 mm</td>
</tr>
<tr>
<td>Drum Width</td>
<td>274 mm</td>
</tr>
<tr>
<td>Flange Diameter</td>
<td>457 mm</td>
</tr>
<tr>
<td>Cable Size</td>
<td>19 mm</td>
</tr>
<tr>
<td>Cable Length</td>
<td>46 m</td>
</tr>
</tbody>
</table>

* Weight: Includes pump, operator controls, oil, mounting brackets and spacers.

Standards

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 81 dB(A), for cab offered by Cat, when properly installed and maintained and tested with the doors and windows closed.
- The operator sound pressure level measured according to the procedures specified in ISO 6394:1998 is 72 dB(A) for the cab offered by Cat, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection is recommended when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters according to the test procedures specified in SAE J88 APR 95, mid-gear-moving operation, is 79.5 dB(A).
- The labeled sound power level is 109 dB(A) measured according to the test procedure and conditions specified in 2000/14/EC.
# MILITARY D6K LIGHT BULLDOZER

## DIMENSIONS

1. **Track gauge**
   - 1770 mm (70 in)

2. **Width of tractor**
   - With the following attachments:
     - Standard shoes without blade: 2330 mm (92 in)
     - Standard shoes with VPAT blade angled 25°: 2817 mm (111 in)
     - Standard shoes with foldable blade in transport position: 2336 mm (92 in)

3. **Machine height from tip of grouser**
   - With the following equipment:
     - ROPS cab: 2958 mm (116 in)

4. **Drawbar height (center of clevis)**
   - From ground face of shoes: 483 mm (19 in)

5. **Length of track on ground**
   - 2645 mm (104 in)

6. **Length of basic tractor (with C-Frame)**
   - 4220 mm (166 in)
   - With the following attachments, add to basic tractor length:
     - Ripper: 1133 mm (45 in)
     - PA50 winch: 640 mm (25 in)
     - VPAT blade, straight: 468 mm (18 in)
     - VPAT blade, angled 25°: 1116 mm (44 in)

7. **Height over stack from tip of grouser**
   - 2914 mm (115 in)

8. **Height of grouser**
   - 48 mm (2 in)

9. **Ground clearance from ground face of shoe (per SAE J1234)**
   - 360 mm (14 in)
MILITARY D6K LIGHT BULLDOZER


**Electrical**
- Horn
- Backup alarm
- Converter 12V, 15-amp
- Diagnostic connector
- Heavy duty 950 CCA batteries
- Integrated four front halogen lights, two rear halogen lights, with guards
- Alternator, 24V, 95 Amp, heavy duty brushless
- 24V Starter

**Operator Environment**
- ROPS/FOPS cab with sliding side windows and air conditioning
- Air suspension seat with adjustable armrests (3-inch) retractable seat belt
- Adjustable seat-mounted, electro-hydraulic controls
- Foot rests
- Compact Instrument Cluster including:
  - Gauges for engine coolant temperature, hydraulic oil temperature and fuel level
  - 12 indicators digital display (ground speed, engine RPM, hour meter)
- Rotary throttle switch
- Electronic travel speed limiter
- Independent forward/reverse speed settings
- Single pedal combining deceleration and braking functions
- Messenger: electronic monitoring and display system
- Rearview mirror
- Auxiliary mirror for rear attachment
- 12V Radio Ready
- Two 12V power ports
- Coat hook
- Storage compartment
- Cup holder
- Rubber floor mat
- Windshield washers and wipers, front, rear, and doors

**Powertrain**
- Cat C6.6 ACERT™ diesel engine
- Hydraulic demand fan
- Air cleaner with precleaner, automatic dust ejection and under-hood intake
- Electric fuel priming pump with integrated fuel/water separator
- Hydrostatic transmission
- Under-hood muffler
- Starting aid, ether injection

**Hydraulics**
- Hydraulics, 3 valve
- Implement load sensing pump

**Undercarriage**
- Sprocketed center tread idlers
- Lifetime lubricated track rollers (7) and idlers
- Carrier rollers
- Tracks, 40 sections 500 mm (20”)
- Adjustable idler height position
- Hydraulic track adjusters

**Other Standard Equipment**
- C-Frame
- Fuel tank and guard
- Hinged crankcase guards
- Idler guards
- Hinged radiator grill
- Front pull hook
- Ecology drains (engine oil, power train and implement oil, and engine coolant)
- Tilting radiator fan
- Military sampling valves
- Extended life coolant, –37° C (–35° F)
- Toolbox
- Vandalism protection for all compartments
- C-130 Air Transportable - Split Cab
- C-130 Airdrop Capable
- Armored Cab (Optional)
- NATO Start Receptacle
- Fresh Water Fordable to 24” Depth
- Rifle Bracket
- Arctic Kit for Cold Start (-40° F) (Optional)
- CARC or Special Paint
- NATO-STANAG-4019 Towing Lugs
- Keyless Engine Start Switch
- Military Oil Sampling Valves
- Fire Extinguisher
- Military Data Plates

All dimensions are approximate. Dimensions may vary with configuration. Specific military service configurations are available upon request.

For more information visit: www.catdfp.com