Engine Operating Weight

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Gross Power</th>
<th>Operating Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat® C7 ACERT™</td>
<td>204 kW</td>
<td>20 230 kg</td>
</tr>
<tr>
<td></td>
<td>274 hp</td>
<td>44,600 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating Specifications</th>
<th>584 6WD</th>
<th>584HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Capacity – 584</td>
<td>18 000 kg</td>
<td>20 000 kg</td>
</tr>
<tr>
<td>Load Capacity – 584HD</td>
<td>39,683 lb</td>
<td>44,092 lb</td>
</tr>
<tr>
<td></td>
<td>23 088 kg</td>
<td>50,900 lb</td>
</tr>
</tbody>
</table>
584/584HD Features

Power Train
The Cat C7 engine with ACERT technology, enlarged cooling capacities, and the hydrostatic drive system give exceptional power, fuel efficiency and control.

Structures
Outstanding durability and service life with rugged and robust front and rear frame structures. Center articulation and oscillation points are designed for long service life.

Hydraulics
The axial piston hydraulic pump delivers quiet efficiency, controllability and durability. High load bearings ensure excellent reliability, and a spring assisted servo piston ensures rapid on-stroke performance.

Loader
Innovative details, durable structure and reliable technology, designed for hard, demanding work.

Operator Station
Spacious purpose built forestry cab with excellent sight lines to the work area. Superb air flow for heating and cooling functions, refined instrumentation and plenty of storage ensures a comfortable, uncluttered working environment.

The Cat® 584 forwarder meets the demanding requirements of forest harvesting in many variable applications. These structurally superior units provide unbeaten comfort, controllability, and serviceability to get the job done in a safe, productive, and efficient manner.
**Power Train**

**Exceptional power and fuel efficiency**

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**Cat® C7 Engine**

The Cat C7 engine with ACERT™ technology gives exceptional power and fuel efficiency. Meets Tier 3, Stage IIIA emission requirements. Tier 3 refers to EPA (U.S) standards. Stage IIIA refers to European standards.

Engines include electronic governing, cold mode start strategy, automatic altitude compensation, electronic diagnostics and fault monitoring.

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**Modulated Fan Speed**

The engine fan speed control is modulated by the IQAN system based on system temperatures to provide fuel savings and precise temperature control.

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**Hydrostatic Drive System**

The forestry designed hydrostatic drive system gives exceptional power, efficiency and controllability unequaled in the industry for consistently high performance in all terrain applications.

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**Exceptional Cooling Capability**

Enlarged cooling capacities provide the high heat rejection capability required for long distance hauling and utilizing the high tractive effort capabilities.

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**Tough Suspension**

Leading design geared bogies and rigid front axle (6WD) are utilized for superior strength and maximum serviceability.
Loader
Solid, Reliable Control

The forwarder loader is designed for hard, demanding work. Decades of experience can be seen in the innovative details, durable structure and reliable technology. Speed and smoothness are combined to get the work done safely, reliably, and without downtime.

Structures
Rugged and robust

Solid Working Platform
Caterpillar design and manufacturing techniques assure outstanding durability and service life.

The front and rear frame structures are manufactured to stand up in the most demanding forest applications.

Oscillation and Articulation
Extreme duty center articulation and oscillation points are designed for long service life.

The cast knuckle articulation includes tapered roller bearings and hardened expander center joint pins.
Hydraulics
Balanced hydraulics deliver continuous, reliable and responsive control

**Hydraulic Pump Is Powerful, Responsive, Quiet**
Designed for continuous, efficient and reliable operation, the forwarders axial piston hydraulic pump meets stringent requirements for noise, efficiency, controllability and durability.

High load bearings are designed to ensure excellent reliability and long life. A spring assisted servo piston ensures rapid on-stroke performance, especially in low standby pressure conditions.

The rigid casing design ensures that all internal forces are well supported. Hydrostatic swash plate balancing together with a rigid support mechanism enhances the power density and reduces noise emissions.

**Valves Are Load Sensing, Pressure Compensated**
The valve system has proven reliability in forestry applications with its fuel efficient load sensing pressure compensated technology.

The valve has been given excellent simultaneous operating characteristics, which enable several machine functions to be operated responsively at the same time, regardless of the sizes of individual loads.

Each section is designed specifically for the flow and pressure of the function, therefore optimizing machine functionality and fuel efficiency. Ramped and proportional crane functions saves mechanical wear and tear on boom structures. Steering sensors provide feedback through the IQAN control system to cushion stop points of the cylinders.
Operator Station
Efficient, productive and spacious

Maximum Production, Comfortable Work
Spacious purpose built forestry cab with excellent sight lines to the work area. The forward positioned side posts provide maximum visibility for the loader working range. The ventilation system provides superb air flow for heating and cooling functions. Refined instrumentation and plenty of storage areas allow an uncluttered working environment.

State-Of-The-Art Controls
The forwarder utilizes the latest technology with CAN-Bus controlled IQAN, switch panels, and engine control.

The IQAN MDL master control has a 165 mm (6.5 in) transflective TFT color display which includes excellent on-screen diagnostics. Units are configured for English or metric display.

Low effort ergonomic joy stick controls provide easy effort control of the loader functions. Loader functions are configurable for SAE or Forestry patterns.

Loader control allows input into 3 selectable and adjustable operator interphases, plus a factory default. An automotive style, tuned hydrostatic propel system allows for all types of terrain and load characteristics.
Support
Services to help you lower costs

Before, During and After Your Purchase
Your Cat dealer is ready to assist you with your purchasing decision and everything after. Factory trained dealer technicians service every aspect of your forwarder.

Preventative maintenance agreements are available for repair before failure options.

Scheduled oil sampling programs can be utilized to match your oil samples against Caterpillar set standards.

For more information on Cat products, dealer services and industry solutions, visit us at www.cat.com.

Serviceability
Easy to access, easy to maintain

Tilting Hood Provides Easy Access
A forward tilting front hood assembly together with the side tilting cab design provide full access to the engine, hydrostat, and hydraulic components.

Better Diagnostics, Grouped Service Points
Simplified service and electronic diagnostics help to increase productivity and machine availability. Grouped lubrication points and lines reduce service times.

Easy Fluid Changes
Removable cover plates allow full access for cleaning and service. An electric refill pump to add oil into the hydraulic tank maintains system cleanliness by passing all added oil through the filtering system. A vacuum pump on the hydraulic tank reduces exposure to oil loss during service and repair.
## Engine Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat C7 ACERT™</td>
</tr>
<tr>
<td>Gross Power</td>
<td>204 kW / 274 hp</td>
</tr>
<tr>
<td>Torque</td>
<td>1182 N·m / 872 lbf-ft</td>
</tr>
<tr>
<td>Displacement</td>
<td>7.2 L / 439 in³</td>
</tr>
</tbody>
</table>

## Weights

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Weight</td>
<td></td>
</tr>
<tr>
<td>- 6WD</td>
<td>20 230 kg / 44,600 lb</td>
</tr>
<tr>
<td>- HD 8WD</td>
<td>23 088 kg / 50,900 lb</td>
</tr>
</tbody>
</table>

## Bunk Area

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Bunk Area</td>
<td>6.25 m² / 67.3 ft²</td>
</tr>
<tr>
<td>Load Bunks</td>
<td>moveable</td>
</tr>
</tbody>
</table>

## Hydraulic System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>284 L/min / 75 gal/min</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>21.5 Mpa / 3,120 psi</td>
</tr>
<tr>
<td>- max</td>
<td></td>
</tr>
</tbody>
</table>

## Operating Specifications

- Flow rate measured at 1,400 rpm

## Wheels/Tires

- 6WD: 700/70 × 34 (front), 750/55 × 26.5 (rear)
- HD 8WD: 750/55 × 26.5

- Carrier width is 3279 mm (129.11 in)

## Loader and Grapple

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loader Type</td>
<td>Epsilon X120F</td>
</tr>
<tr>
<td>Reach</td>
<td>8.0 m / 315 in</td>
</tr>
<tr>
<td>Lifting Torque, Gross</td>
<td>159 kN·m / 111,975 lbf-ft</td>
</tr>
<tr>
<td>Slewing Torque, Gross</td>
<td>45 kN·m / 30,240 lbf-ft</td>
</tr>
<tr>
<td>Slewing Angle</td>
<td>380 Degrees</td>
</tr>
<tr>
<td>Grapple Type</td>
<td>Epsilon FG37</td>
</tr>
<tr>
<td>Grapple Type, Optional</td>
<td>Epsilon FG43S</td>
</tr>
<tr>
<td>Rotator Type</td>
<td>G141</td>
</tr>
</tbody>
</table>

## Transmission

- Transmission: hydrostatic, 2-speed drop box
- Rotator Type: G141

## Service Refill Capacities

- Fuel Tank: 255 L / 67.3 gal
- Hydraulic Fluid Reservoir: 174 L / 46 gal

## Standards

Dimensions

All dimensions are approximate

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Length – Total</td>
<td>11,085 mm (436.4 in)</td>
</tr>
<tr>
<td>2</td>
<td>Length – Front to Articulation</td>
<td>4,633 mm (182.4 in)</td>
</tr>
<tr>
<td>3</td>
<td>Length – Total – with Blade</td>
<td>11,755 mm (462.8 in)</td>
</tr>
<tr>
<td>4</td>
<td>Length – Front to Articulation – with Blade</td>
<td>5,304 mm (208.8 in)</td>
</tr>
<tr>
<td>5</td>
<td>Wheel Base – Total</td>
<td>6,096 mm (240.0 in)</td>
</tr>
<tr>
<td>6</td>
<td>Wheel Base – Front to Articulation</td>
<td>2,235 mm (88.0 in)</td>
</tr>
<tr>
<td>7</td>
<td>Bogie Spread (Center to Center) S84</td>
<td>1,690 mm (66.5 in)</td>
</tr>
<tr>
<td>8</td>
<td>Bogie Spread (Center to Center) S84HD</td>
<td>1,690 mm (66.5 in)</td>
</tr>
<tr>
<td>9</td>
<td>Ground Clearance</td>
<td>692 mm (27.3 in)</td>
</tr>
<tr>
<td>10</td>
<td>Transport Height</td>
<td>4,163 mm (163.9 in)</td>
</tr>
<tr>
<td>11</td>
<td>Deck Length</td>
<td>5,410 mm (213.0 in)</td>
</tr>
<tr>
<td>12</td>
<td>Width – Outside Rear Tires</td>
<td>3,279 mm (129.11 in)</td>
</tr>
<tr>
<td>13</td>
<td>Width – Tire Center Lines</td>
<td>2,530 mm (99.6 in)</td>
</tr>
<tr>
<td>14</td>
<td>Width – Between Stakes, Standard</td>
<td>2,769 mm (109.0 in)</td>
</tr>
<tr>
<td>15</td>
<td>Width – Between Stakes, Wide</td>
<td>3,264 mm (128.5 in)</td>
</tr>
</tbody>
</table>
Lift Capacities

<table>
<thead>
<tr>
<th>X120F80</th>
<th>3700</th>
<th>2770</th>
<th>2210</th>
<th>1840</th>
<th>1570</th>
<th>1360</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>8,157</td>
<td>6,107</td>
<td>4,872</td>
<td>4,057</td>
<td>3,461</td>
<td>2,998</td>
<td></td>
<td>lb</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td></td>
<td>m</td>
</tr>
<tr>
<td>9’10”</td>
<td>13’1”</td>
<td>16’5”</td>
<td>19’8”</td>
<td>23’0”</td>
<td>26’3”</td>
<td></td>
<td>ft/in</td>
</tr>
</tbody>
</table>
584/584HD Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

**Electrical**
- 24V system
- Master disconnect
- Circuit breaker protection
- 200 Amp Alternator
- 2 12V Batteries
- 12 cab mounted halogen lights
- 2 boom mounted halogen lights
- 2 rear deck mounted halogen lights
- IQAN MDL full function control system with on-screen diagnostics, switch panels and engine control

**Operator Environment**
- Pressurized ROPS-FOPS-OPS cab
- Isolation mountings
- Electric cab tilt
- Tinted 12.7 mm (½ in) polycarbonate windows
- Air suspension seat
- Air conditioner/heater with auto temp control
- Window defroster vents
- Horn
- 2 12V power ports
- Dome light
- Radio ready
- Cup holder
- Hydraulic step and access platform
- IQAN MDL full function control system

**Power Train**
- Cat C7 ACERT engine
- Hydrostatic drive system
- 2-speed drop box
- Rear axle disconnect
- 8.5C drive line components
- NAF axle modules

**Hydraulics**
- 200 cc (12.2 in³) variable displacement implement pump
- Closed circuit load sensing valves
- Hydraulic driven cooling fan
- Vacuum pump
- Electric refill pump

**Brake System**
- Driving brake/work brake
- Parking brake

**Loader**
- Epsilon X120F80 with G141 rotator
- 8.0 m (26.25 ft) reach
- Epsilon FG37 grapple

**Load Deck**
- 5.41 m (17.75 ft) load deck
- Shock cushioned head board mounting
- Hydraulic extendable head board
- Adjustable load stake spacing
- Bolt-on tail piece

584/584HD Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

**Epsilon FG43S grapple**
- Adjustable load bunks 5.5 m² (59.2 ft²) to 6.25 m² (67.3 ft²)
- Heated/cooled air suspension seat
- Window wiper/washer options
- Window shades
- 10 cab mounted HID lights

**Signal and brake light assemblies**
- Front blade
- Rear tow hitch
- HD Front Protection pkg with brush sweeps
- Satellite radio/CD player
- Electric fuel fill pump
- Cold climate heater warm up system

**Tire options**
- Wheels/Tires 650/65 × 26.5, carrier width is 3180 mm (125.19 in)
- Balanced bogies