Features

- CD5540F: 13.6 t (15 USt) capacity three-section boom with 12.5 m (41 ft) outreach
- CD5560B: 16.3 t (18 USt) capacity four-section boom with 16.6 m (54 ft 6 in) outreach
- 4.6 m (15 ft) offsettable swingaway extension
- 9072 kg (20,000 lb) deck carrying capacity
- Available with diesel or dual fuel engine
Outriggers
The CD5540F is equipped with single-position oblique style outriggers. The CD5560B comes equipped with two-position beam/jack style outriggers.

Cab
Both models come equipped with a standard open air cab shell with overhead safety glass.

An optional enclosed cab with front, right and rear glass, a split (two-piece) hinged door with sliding glass. Front windshield wiper, heater and defroster fan is available.

Cummins engine
The Cummins QSB 3.3 L, Tier III, diesel comes standard in both models.

Horsepower rating:
CD5540F: 63 kW (85 hp) at 2600 rpm.
CD5560B: 73.8 kW (99 hp) at 2600 rpm.

Steering
Standard steering modes on the 5540F is two-wheel, four-wheel, and crab steer with an option for electronic self-alignment.

Standard steering modes on the 5560B include two-wheel, four-wheel, crab steer and electronic self-alignment.

 Boom
A 12.5 m (41 ft) main boom comes standard on the CD5540F. An optional fourth main boom section adds 3.4 m (11 ft) additional boom length.

The CD5560B comes standard with a 16.6 m (54 ft 6 in) main boom.
<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CD5540F dimensions</td>
<td>7</td>
</tr>
<tr>
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<td>8</td>
</tr>
<tr>
<td>CD5540F four-section boom working range</td>
<td>9</td>
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<tr>
<td>CD5540F three-section boom load chart</td>
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<tr>
<td>CD5540F four-section boom load chart</td>
<td>11</td>
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<tr>
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<td>12</td>
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<tr>
<td>CD5560B load chart</td>
<td>14</td>
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<tr>
<td>Symbols glossary</td>
<td>15</td>
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</tbody>
</table>
## Specifications

### Superstructure

#### Boom

**CD5540F:** 5.6 m – 12.5 m (18 ft 6 in – 41 ft 0 in) three-section full power boom.
Maximum tip height: 14.1 m (46 ft 3 in)

**CD5560B:** 5.6 m – 16.6 m (18 ft 6 in – 54 ft 6 in) four-section full power boom.
Maximum tip height: 19.0 m (62 ft 6 in)

#### *Optional boom

**CD5540F:** Manual fourth main boom fly section
Maximum tip height: 17.0 m (56 ft 3 in)

#### *Boom extension

4.6 m (15 ft) offsettable swingaway extension

#### Boom nose

**CD5540F:** Two sheave non-pivoting boom nose

**CD5560B:** Two sheave, -3-position (0°, + 40°, + 80°) pivoting boom nose for minimizing head space requirements. Lowers head height 0.4 m (15.9 in) when nose is pivoted fully forward.

#### Boom elevation

**CD5540F:** Single double acting hydraulic cylinder with integral holding valve.

**CD5560B:** Two double acting hydraulic cylinders with integral holding valve.
Elevation: 0° to 69° for the **CD5540F**
0° to 80° for the **CD5560B**

#### Anti-two block device

Standard anti-two block device, when activated, provides an audible warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.

### Load indicator (wireless LSI)

A simple effective and easy to use load indicating system used in conjunction with the anti-two block system to assist the operator in efficient operation of the unit within the limits of the load chart. The display panel displays the hook load and warns the operator when a preset load capacity is exceeded. The warning is by a flashing light on the display panel. In conjunction with the load display panel (receiver), there is a wireless transmitter and load sensing pin attached to the boom head that transmits the hook load to the display panel.

### *Load moment indicator (hardwired LMI)

Digital display of boom angle, boom length, boom radius, capacity, and allows for operator input to set the limits based on load chart. Displays color coded light bar and audible alarm with function cutout if load exceeds entered parameters.

### Swing

Ball bearing swing circle with 360° continuous rotation. Hydraulic driven worm gear and pinion.
Maximum speed:
- **CD5540F:** 2.1 rpm
- **CD5560B:** 2.5 rpm

### Hydraulic system

Four section gear pump providing a system pressure of 241.3 bars (3500 psi)
Combined flow: 333.1 Lpm (88.0 gpm)

**CD5540F:** Six-section valve bank mounted in dash with direct mechanical linkage for low effort lever control.

**CD5560B:** Six-section valve bank chassis mounted; operated via dash mounted, pilot pressure hydraulic joysticks.
Return line filter with full flow by-pass protection and service indicator.
151.4 L (40 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impact damage.

*Denotes optional equipment*
Outrigger controls

**CD5540F:** Lever controls located on dash panel and operate the beams in pairs from side to side. Level bubble located inside operators compartment.

**CD5560B:** Two switch operation mounted on dash panel. One three-position rocker switch to select all beams / jacks, left beams / jacks only, or right beams / jacks only. Separate four-way toggle switch to activate beams out / in and jacks down / up. Level bubble indicator located inside operators compartment.

*Independent outrigger controls available as an option.

Standard engine (Tier III)

**CD5540F:** Cummins QSB 3.3 L turbo-charged diesel rated at 63,0 kW (85 bhp) at 2600 rpm.

**CD5560B:** Cummins QSB 3.3 L turbo-charged diesel rated at 73,8 kW (99 bhp) at 2600 rpm.

Optional engine (2007 EPA)

G.M. 4,3 L V-6 EFI dual fuel (gasoline / L.P.) rated at 69,3 kW (93 bhp) @ 2500 rpm.

Operators control station

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls, and overhead safety glass. Other standard equipment include a durable weather resistant seat with seat belt, hourmeter, sight level bubble, and fire extinguisher. The dash panel includes engine oil pressure gauge, engine water temperature gauge, fuel gauge, transmission low oil and high temperature warning lights, low battery warning light, and brake system low pressure warning light. The LSI (load indicator) receiver is mounted to the top of the dash.

*Operators control station enclosed

Includes the standard cab shell with the addition of front, right, and rear glass, a split (two-piece) hinged door with sliding glass.

Front windshield wiper, heater and defroster fan are included.
Suspension

Front: Rigid mounted to frame.
Rear: Provides 1.5° oscillation for use on semi-rough terrain. Axle lock-out must be engaged (locked) whenever picking on rubber or traveling in the crab steer mode. A warning light indicates when the axle lock-outs are engaged.

Lights

Recessed mounted, includes head, tail, rear work, stop, and turn signals.

Maximum speed

CD5540F: 23.3 km/h (14.5 mph)
CD5560B: 33.8 km/h (21.0 mph)

Gradeability (theoretical)

CD5540F: 73%.....no load
41%..... 9072 kg (20,000 lb) load
CD5560B: 68%.....no load
40%..... 9072 kg (20,000 lb) load

Gross vehicle weight (G.V.W)

CD5540F: 12 742 kg (28,090 lb) three-section boom
12 966 kg (28,584 lb) four-section boom
CD5560B: 14 769 kg (32,560 lb)

Miscellaneous standard equipment

Two sheave, “Quick Reeve” style hookblock; CD5540F: 13.6 t (15.0 USt); CD5560B: 16.3 t (18.0 USt).
Back-up alarm
Lifting and tie down lugs
Outrigger motion alarm

*Denotes optional equipment
CD5540F

**Dimensions**

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE

The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
Range diagram

CD5540F
(Three-section boom)

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
CD5540F
(Four-section boom)

Range diagram

Operating radius in feet from axis of rotation

Height from the ground in feet

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
CD5540F
(Three-section boom)

<table>
<thead>
<tr>
<th>MAIN BOOM ANGLE (deg)</th>
<th>0°</th>
<th>15°</th>
<th>30°</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>6000</td>
<td>3900</td>
<td>2800</td>
</tr>
<tr>
<td>65</td>
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<td>4300</td>
<td>3150</td>
<td>2350</td>
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<td>0</td>
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</tbody>
</table>

NOTES:
- JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.
- SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.
- OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISCARD OF INSTRUCTIONS IS DANGEROUS AND voidS WARRANTY.

1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator and proper training must be taken into account by the operator.

3) The weights of all load handling devices, such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4) Ratings on outriggers are with outriggers fully extended.

5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (20 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with the boom retracted to the shortest length possible and centered over the front.

6) For operating radius not shown, use load rating of next larger radius.

7) The maximum combined total boom and deck load is 16,000 lb. The maximum deck load only is 20,000 lb.

8) Do not induce any external side loads to boom or jib.

1302442

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
### CD5540F
(Four-section boom)

#### Operation of this equipment in excess of JIB, deployed

- Wire rope: 1/2 inch diameter
- Min. breaking strength: 26,250 lb

#### Load chart

**Load chart**

- **Main Boom Angle (deg)**
  - **4th Retracted**
  - **4th Extended**

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>4th Retracted</th>
<th>4th Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/R</td>
<td>360</td>
<td>F/R</td>
</tr>
<tr>
<td>6.0</td>
<td>11,000</td>
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<td>8.0</td>
<td>16,600</td>
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<tr>
<td>58.0</td>
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</tbody>
</table>

#### Ratings

1. The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2. The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of operator and proper training must be taken into account by the operator.

3. The weights of all load handling devices, such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

4. Ratings on outriggers are with outriggers fully extended.

5. Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with the boom retracted to the shortest length possible and centered over the front.

6. For operating radius not shown, use load rating of next larger radius.

7. The maximum combined total boom and deck load is 16,000 lb. The maximum deck load only is 20,000 lb.

8. Do not induce any external side loads to boom or jib.

#### Notes:

- JIB capacity is limited by both structural capacity chart and main capacity chart.
- Shaded areas are governed by structural strength, do not rely on tipping.

**Operation of this equipment in excess of rating charts and disregard of instructions is dangerous and voids warranty.**

![Diagram of JIB and crane](image)

**Reduction chart**

- **From Main Boom Ratings**
- **From JIB Ratings**

| MAIN BLOCK | 210 lb | N/A |
| HOOK & BALL | 100 lb | 100 lb |
| JIB, STOWED | 0 lb | N/A |
| JIB, DEPLOYED | 700 lb | 0 lb |

**Rigging chart**

- **1-Part 0 - 7500 lb**
- **4-Part 0 - 30,000 lb**

**CD5540F Load chart**

*The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.*

*This chart is only a guide and should not be used to operate the crane.*
Dimensions

CD5560B

Dimensions are with the boom horizontal and the anti-two block bottomed.

SEE INSET

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
### Load chart

#### CD5560B

**Main Boom Load Ratings on Outriggers**

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>18.5 ft Boom</th>
<th>30.5 ft Boom</th>
<th>42.5 ft Boom</th>
<th>54.5 ft Boom</th>
<th>360° Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>64</td>
<td>70</td>
<td>74</td>
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<td>86</td>
<td>100</td>
<td>116</td>
<td>125</td>
<td>143</td>
</tr>
</tbody>
</table>

**Rated Load (lb)**

- Front: 6,000 lb
- 360°: 11,000 lb

**Ratings for Operating Radius**

- 18.5 ft Boom: 64 ft
- 30.5 ft Boom: 67 ft
- 42.5 ft Boom: 74 ft
- 54.5 ft Boom: 78 ft

**Extended and Down 360° or Retracted and Down Front/Rear**

- 10 ft Boom: 24,000 lb
- 12 ft Boom: 22,000 lb
- 14 ft Boom: 21,000 lb
- 16 ft Boom: 19,000 lb
- 18 ft Boom: 17,000 lb
- 20 ft Boom: 15,000 lb
- 22 ft Boom: 13,000 lb
- 24 ft Boom: 11,000 lb
- 26 ft Boom: 9,000 lb
- 28 ft Boom: 7,000 lb

**JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.**

**Rated Load (lb)**

- 18.5 ft Boom: 6,000 lb
- 30.5 ft Boom: 11,000 lb
- 42.5 ft Boom: 16,000 lb
- 54.5 ft Boom: 21,000 lb

**Radius (ft)**

- 6: 64 ft
- 8: 67 ft
- 10: 69 ft
- 12: 71 ft
- 14: 73 ft
- 16: 74 ft
- 18: 75 ft
- 20: 76 ft
- 22: 78 ft
- 24: 80 ft
- 26: 82 ft
- 28: 84 ft
- 30: 86 ft
- 32: 88 ft
- 34: 90 ft
- 36: 92 ft

**Front Rating (lb)**

- 6: 6,000 lb
- 8: 11,000 lb
- 10: 16,000 lb
- 12: 21,000 lb
- 14: 26,000 lb
- 16: 31,000 lb
- 18: 36,000 lb
- 20: 41,000 lb
- 22: 46,000 lb
- 24: 51,000 lb
- 26: 56,000 lb
- 28: 61,000 lb
- 30: 67,000 lb
- 32: 73,000 lb
- 34: 79,000 lb
- 36: 85,000 lb

**360° Rating (lb)**

- 6: 10,000 lb
- 8: 20,000 lb
- 10: 30,000 lb
- 12: 40,000 lb
- 14: 50,000 lb
- 16: 60,000 lb
- 18: 70,000 lb
- 20: 80,000 lb
- 22: 90,000 lb
- 24: 100,000 lb
- 26: 110,000 lb
- 28: 120,000 lb
- 30: 130,000 lb
- 32: 140,000 lb
- 34: 150,000 lb
- 36: 160,000 lb

**Shaaded Areas are Governed by Structural Strength, Do Not Relly on Tipping.**

**Operation of this equipment in excess of rating charts and disregard of instructions is dangerous and voids warranty.**

---

**JIB Stowed NO REDUCTION NOT APPLICABLE**

**JIB Deployed NO REDUCTION**

**Ratings for Load Handling Devices Installed (lb)**

<table>
<thead>
<tr>
<th>MAIN BLOCK</th>
<th>FROM MAIN BOOM</th>
<th>FROM JIB</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>100</td>
<td>100</td>
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<tr>
<td>500</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>1000</td>
<td>500</td>
<td>500</td>
</tr>
</tbody>
</table>

**15 ft Jib Capacities on Extended Outriggers**

<table>
<thead>
<tr>
<th>Main Boom Angle (deg)</th>
<th>0°</th>
<th>10°</th>
<th>20°</th>
<th>30°</th>
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**Maximum Permissible Single Line Pull = 9000 LB**

**WIRE ROPE: 13 mm Diameter X 8 X 25 Galvanized**

Minimum required breaking strength = 32,000 lb

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This chart is only a guide and should not be used to operate the crane.

The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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1. The rated loads are the maximum lift capacities as determined by operating radius, boom length and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2. The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. Retracted outrigger rated loads meet ASME B30.5-2004. These ratings are based on a uniformly supported surface. Practical working loads depend on stability, hazardous surroundings, climatic conditions, experience account by the operator.

3. The weights of all load handling devices, such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See above.

4. Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

5. Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth hard level surface with boom retracted to the shortest length possible and centered over front. Do not use jib with crane on rubber.

6. For operating radius not shown, use load rating of next larger radius.

7. The maximum combined total boom and deck load is 16,000 lb the maximum deck load only is 20,000 lb.

8. Do not induce any external side loads to boom or jib.

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The individual crane’s load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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