GENERAL SPECIFICATIONS

MODEL 4527

CRANE CAPACITY RATING
45,000 ft. lbs. 6.23 TM

MAXIMUM REACH (FROM CENTERLINE)
27" 8.45 m

TIP HEIGHT*
36" 11.03 m

HYDRAULIC EXTENSION
112" 284.4 cm

MANUAL EXTENSION
–

ROTATION (STANDARD)
370°

CRANE WEIGHT
2789 lbs.

STORAGE HEIGHT (CRANE ONLY)
75" 191 cm

STORAGE WIDTH (BOOM ONLY)
92" 234 cm

OUTRIGGER SPAN (SEE BASE CONFIGURATION DRAWINGS)
–

MOUNTING SPACE REQUIRED**
29.5" 74.9 cm

MINIMUM PUMP CAPACITY/MINUTE
8 gal 30.4 L

OIL TANK CAPACITY (CRANE ONLY)
20 gal 75.8 L

*LIFT HEIGHT WHEN MOUNTED ON 34" (86.4 cm) HIGH TRUCK FRAME.
**ALLOW MINIMUM 1.5" (3.8 cm) ADDITIONAL BETWEEN CAB AND CRANE FOR ROTATION CLEARANCE. DISTANCE MAY VARY BY TRUCK MODEL.

CYLINDER DATA

BORE

STROKE

MAIN BOOM CYLINDERS
3.25" (8.3 cm)
27" (686.6 cm)

FOLDING BOOM CYLINDERS
4.0" (10.1 cm)
42" (106.6 cm)

EXTENSION CYLINDER
3.5" (8.9 cm)
112" (284 cm)

STABILIZER DOWN CYLINDERS
2.5" (6.3 cm)
24.00" (61.0 cm)

STABILIZER EXTEND CYLINDERS
2.5" (6.3 cm)
24.00" (60.9 cm)

OPTIONS

ACTIVE OVERLOAD – Provides hydraulic cutout of extension functions in event of overload condition. System is fully hydraulic and resets automatically.

REMOTE CONTROL – Provides remote control capability. 30 foot hard wired (cable) provides remote control operation of all crane functions except outriggers. Mil-spec sealed bushing toggle switches provide long life in harsh environments. Proportional speed controller allows operator to also remotely control crane function speeds. A wireless (radio control) version is also available.
**HFC-4527 WORKING RANGE / CAPACITY CHART**

<table>
<thead>
<tr>
<th>AREA</th>
<th>REACH</th>
<th>CAPACITY</th>
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<tbody>
<tr>
<td>A</td>
<td>6 ft.</td>
<td>7500 lbs.</td>
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<tr>
<td>B</td>
<td>8 ft</td>
<td>5625 lbs.</td>
</tr>
<tr>
<td>C</td>
<td>10 ft.</td>
<td>4500 lbs.</td>
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<tr>
<td>D</td>
<td>13.5 ft</td>
<td>3300 lbs.</td>
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<tr>
<td>E</td>
<td>18.2 ft</td>
<td>2200 lbs.</td>
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<tr>
<td>F</td>
<td>23 ft</td>
<td>1750 lbs.</td>
</tr>
<tr>
<td>G</td>
<td>27 ft</td>
<td>1380 lbs.</td>
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**STANDARD PERFORMANCE FEATURES**

**COUNTERBALANCE SAFETY VALVES**
The main (inner) boom and knuckle (articulating) boom cylinders are equipped with pilot operat ed counterbalance valves integral to the cylinder on the load holding sides. The stabilizer and boom extension cylinders are equipped with dual pilot operated check valves.

The counterbalance valves positively hold the load during normal operations. The valves additionally provide protection from collapse in event of a hydraulic system failure or hose break. The counterbalance valves further control the metering of lowering functions and provide thermal relief protection in event of hydraulic oil expansion due to ambient temperature conditions.

The dual pilot operated check valves positively lock the cylinder in position until the operator intentionally controls that function.

**ROTATION SYSTEM**
Slewing is accomplished by means of a rotation turntable bearing driven by a self locking external helical worm gearbox powered by a low-speed, high-torque motor. Total reduction is 85:1.

**OVERLOAD PROTECTION SYSTEM**
The Model 4500 articulating crane is equipped with an overload alarm system as standard equipment.

In the event of an overload condition of the crane, the system will sense pressures in excess of allowable and will activate an audible alarm to alert the crane operator of the overload condition. The system will cease alarm and automatically reset when the load is returned to a position within specified capacities.

**FULLY PROPORTIONAL OPERATION –** Each valve function is fully proportional, as compared to hydraulic systems in which only the inlet flow is proportionally controlled. Each crane function such as boom raise and boom lower are fully controllable for function speed. Further, all functions can be operated simultaneously at the desired speed.

**BASIC DIMENSIONAL DATA**