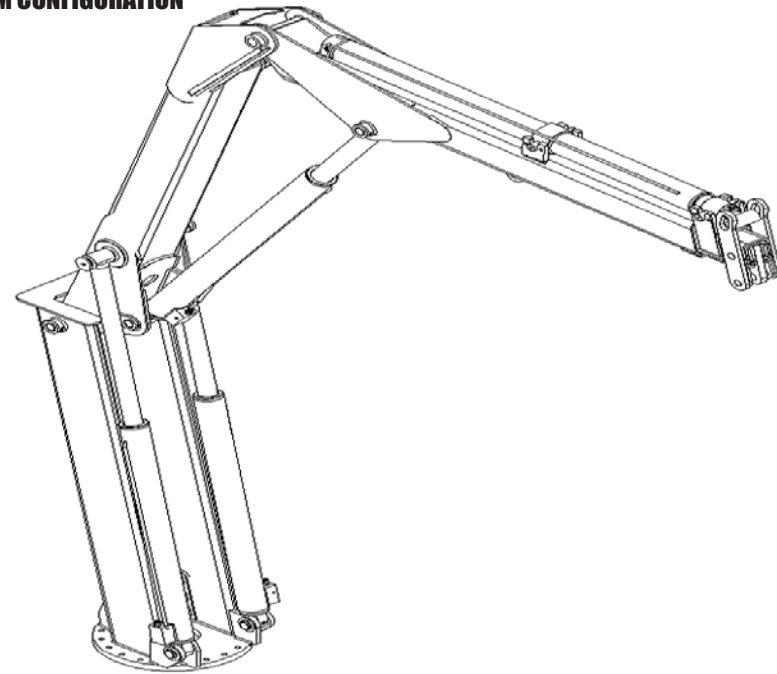
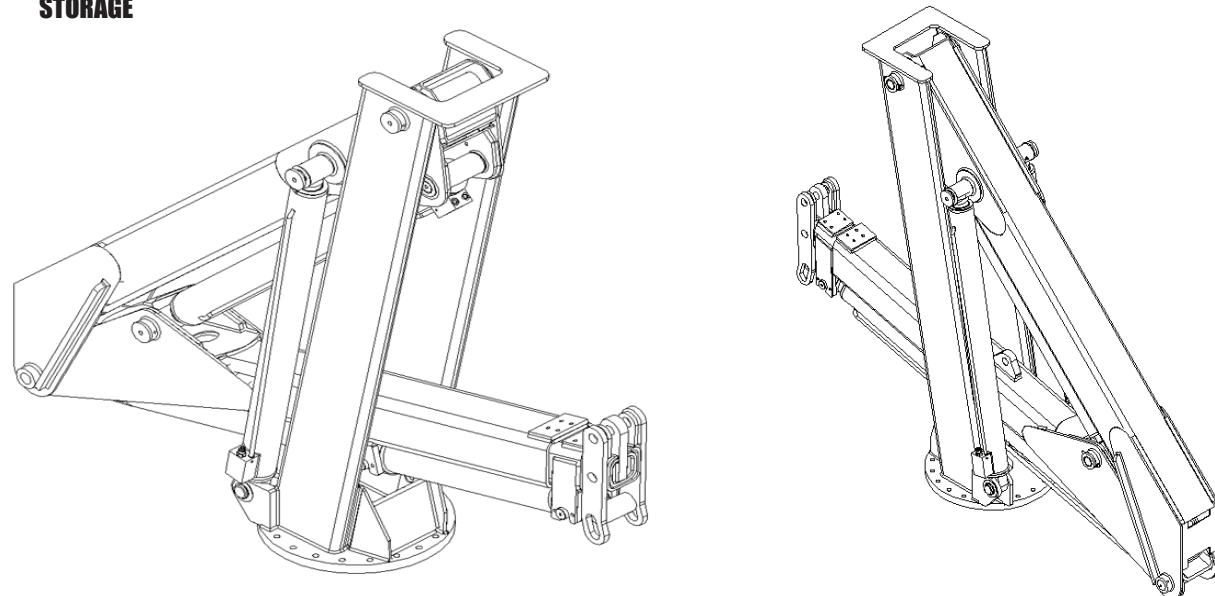


SOLID MODEL-FINITE ELEMENT ANALYSIS DESIGN

BOOM CONFIGURATION



STORAGE



HFC-4500 SERIES

GENERAL SPECIFICATIONS

	MODEL 4527	
CRANE CAPACITY RATING	45,000 ft. lbs.	6.23 TM
MAXIMUM REACH (FROM CENTERLINE)	27' 9"	8.45 m
TIP HEIGHT*	36' 3"	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" (68.6 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" (6.3cm)	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.

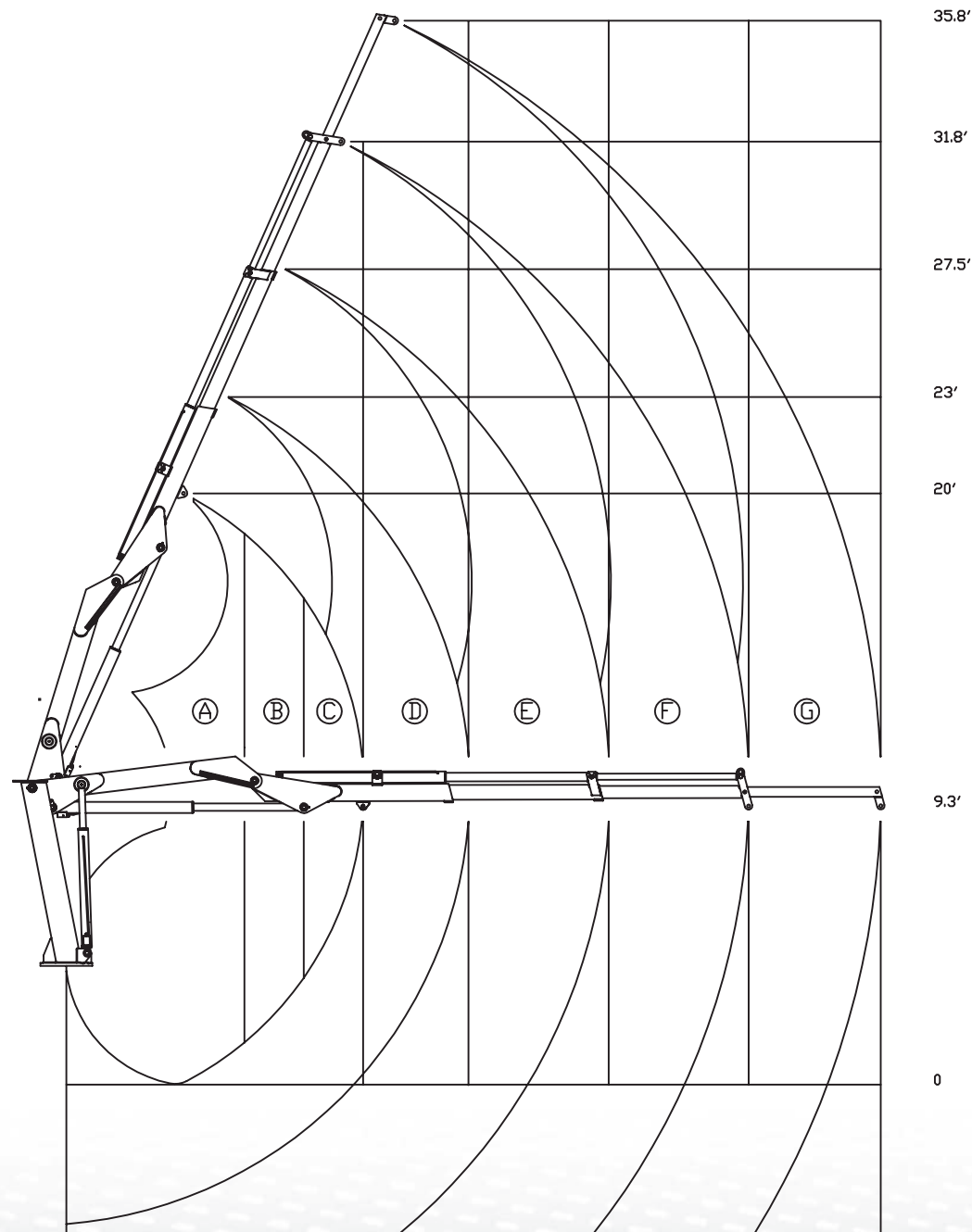
REMOTE CONTROL – Provides remote control capability. 30 foot hard wired (cable) provides remote controperation of all crane functions except outriggers. Mil-spec sealed bushing toggle switches provide long life in harsh enviroments. Proportional speed controller allows operator to also remotely control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



HFC-4527 WORKING RANGE / CAPACITY CAHRT

AREA	REACH	CAPACITY	AREA	REACH	CAPACITY	AREA	REACH	CAPACITY
A	6 ft.	7500 lbs.	C	10 ft.	4500 lbs.	E	18.2 ft.	2200 lbs.
B	8 ft.	5625 lbs.	D	13.5 ft.	3300 lbs.	F	23 ft.	1750 lbs.
			G	27 ft.	1380 lbs.			

6' 8' 10' 13.5' 18.25' 23' 27'



STANDARD PERFORMANCE FEATURES

COUNTERBALANCE SAFETY VALVES

The main (inner) boom and knuckle (articulating) boom cylinders are equipped with pilot operated 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

