

# Clamshell/Grapple Capacities

## 222HD

**Boom No. 222HD With Open Throat Top**  
**28,500 Lb. Counterweight**  
**22 Ft. 4 in. Crawlers Extended**  
**360 Degree Rating**

**LIFTING CAPACITIES:** Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on tipping, structural competence (\*), operating speeds and other factors.

Weight of bucket is considered part of load. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate in a level position on a firm uniformly supporting surface with crawlers fully extended and gantry up. Refer to boom rigging **No. 911764** and Wire Rope Specification chart **No. 9064-A**. Crane operator judgment must be used to allow for adverse

operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to the center of gravity of the freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius.

**MACHINE EQUIPMENT:** Machine equipped with 22 Ft. 4 in. extendible crawlers, 36 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants and 28,500 Lb. counterweight.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>40 Ft. BOOM</b>		
22	65.4	30,000 *
24	62.1	30,000 *
26	58.8	30,000 *
28	55.3	30,000 *
30	51.7	30,000 *
32	47.9	27,500
34	43.8	25,100
36	39.4	23,000
38	34.4	20,700 *
40	28.8	17,000 *
<b>50 Ft. BOOM</b>		
26	65.6	30,000 *
28	63.0	30,000 *
30	60.4	30,000 *
32	57.7	27,400
34	54.9	24,900
36	52.0	22,800
38	49.0	21,000
40	45.8	19,400
45	37.0	16,100
50	25.5	11,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>60 Ft. BOOM</b>		
30	65.7	30,000 *
32	63.6	27,100
34	61.4	24,700
36	59.2	22,600
38	56.9	20,800
40	54.6	19,100
45	48.4	15,900
50	41.6	13,400
55	33.6	11,300 *
60	23.2	7,200 *
<b>70 Ft. BOOM</b>		
34	65.8	24,600
36	64.0	22,400
38	62.2	20,600
40	60.3	19,000
45	55.4	15,700
50	50.2	13,200
55	44.6	11,200
60	38.3	9,300 *
65	30.9	7,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>80 Ft. BOOM</b>		
38	65.9	20,400
40	64.3	18,700
45	60.2	15,400
50	56.0	12,900
55	51.5	10,900
60	46.7	8,900 *
65	41.5	7,200 *
70	35.7	5,800 *
<b>90 Ft. BOOM</b>		
40	67.4	16,400
45	63.8	15,200
50	60.2	12,700
55	56.5	10,700
60	52.5	8,700 *
65	48.3	6,900 *
70	43.9	5,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>100 Ft. BOOM</b>		
45	66.6	13,900
50	63.5	12,500
55	60.2	10,500
60	56.8	8,300 *
65	53.3	6,600 *
70	49.6	5,100 *