Liftcrane Boom Butt Handling Capacities

MLC100-1

Operating Limits for Crane Assembly
Drum 1 only - Crawlers Extended
360 Degree Rating

HANDLING CAPACITIES: Handling capacities are for crane self-assembly using boom butt guide sheave. Weight of weight ball, slings, hoist lines, etc., beneath boom butt guide sheave is considered part of load. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate on firm, level and uniformly supporting surface. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.

MACHINE EQUIPMENT: Machine equipped with 21 ft 3 in. crawlers, 35 in. treads, 14 ft 5 in. gantry, 8 part boom hoist reeving, and equalizer pinned to boom butt. Machine can be configured with 19.7 ft boom butt only or 42.7 ft boom length. Machine must be equipped with 0 lb crane counterweight and 0 lb carbody counterweight; 0 lb crane counterweight and 23,100 lb carbody counterweight; 45,400 lb crane counterweight and 0 lb carbody counterweight; or 73,000 lb crane counterweight and 23,100 lb carbody counterweight.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line. Boom angle in degrees (°) is angle between horizontal and centerline of boom butt, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

19.7 ft Boom Butt		
Operating Radius Feet	**Boom Angle Degrees**	**Capacity Pounds**
8.3	83.0	19,000
9	80.8	19,000
10	77.5	19,000
12	70.6	19,000
14	63.4	19,000
16	55.5	19,000
18	46.6	19,000
20	35.8	19,000

42.7 ft Boom		
Operating Radius Feet	**Boom Angle Degrees**	**Capacity Pounds**
8.3	83.0	19,000
9	80.8	19,000
10	77.5	19,000
12	70.6	19,000
14	63.4	19,000
16	55.5	19,000
18	46.6	19,000
20	35.8	19,000

Caution: **Boom butt handling is restricted to drum 1 only.** *Use of any other drum may prevent the boom from lowering and boom hoist wire rope may go slack causing wire rope damage or failure.*