

# AC3-19 Articulating Crane

## Specifications

Number of Extensions	2-Hydraulic	3-Hydraulic
Crane Rating*	18,800 ft-lb (2.6 tm)	18,800 ft-lb (2.6 tm)
Max. Horizontal Reach	17' 10" (5.45 m)	22' 2" (6.75 m)
Max Vertical Reach Hydraulic	26' 3" (8.00 m)	30' 2" (9.20 m)
Max. Capacity	1,874 lb (850 kg)	1,764 lb (800 kg)
Max Capacity @ Max Reach	979 lb (445kg)	726 lb (330 kg)
Crane Weight**	860 lb (390 kg)	926 lb (420 kg)

\*Crane rating (ft-lb) is the rated load (lb) x the respective distance (ft) from centerline of rotation with all extensions retracted and the inner and outer booms in a horizontal position, per ANSI B30.22.

\*\*Crane weight does not include outrigger

## Specifications

Outrigger Foot Diameter	3.94" (100 mm)	Optimum Pump Capacity	2.6 GPM (10 L/min)
Crane Storage Height	64.5" (1635 mm)	System Pressure	2,970 PSI (205 bar)
Mounting Space***	14" (352 mm)	Outrigger Extension Span	
Rotational Torque	2,876 ft-lb (390 daNm)	Standard (manual out, hydraulic down) stabilizers	9' 7" (2.92 m)
Rotation	370°		
Oil Reserve Capacity	4.62 gal (17.5 L)		

\*\*\*Allow an additional 10" between the cab and crane base for swing clearance.

## Minimum Chassis Specifications

Gross Vehicle Weight Rating (GVWR)	7,714 lb
Resistance to Bending Moment (RBM)	142,043 in-lb

## Notes

A. Weight distribution calculations are required to determine final axle loading. The use of service bodies, diesel engines, or longer wheelbase, can increase the minimum chassis requirements. Please contact Auto Crane for details.

B. GAWR (Gross Axle Weight Rating) is the total weight of the vehicle including the (chassis, driveline, occupants, cargo, etc. ) that is allowed by the manufacturer requirements, for the vehicle to go down the road safely. This is a critical factor in purchasing a truck for the crane application. All chassis and crane applications must be tested by engineering and the final assembler to ensure stability per ANSI B30.22.

## System Characteristics

### Rotation System

Our Articulating Cranes utilize a rack and pinion rotation system which provides high torque for demanding applications. The column turns on bushings made of an advanced composite material for long service life. The rotation cylinders are protected by a load holding valve and flow controls to ensure safe and precise operation.

### Cylinder Holding Valves

Flanged load holding valves on hydraulic cylinders provide smooth load control and load holding. In the event of a hose failure, they lock the cylinder in place to prevent uncontrolled crane movement or falling loads.

### Hydraulic Overload System

Providing the Hydraulic Overload protection are main relief and port relief valves, as well as counterbalance valves.

### Hydraulic System

The hydraulic system is open-center as standard. Included on the crane is a hydraulic oil reservoir, return line filter, high-pressure filter(1), and control valve with dual-side controls(2). An optional closed-center valve is available on request.

### Exceptions

- (1) Cranes with manual controls do not have high pressure filter
- (2) Cranes with radio controls do not have dual-side controls

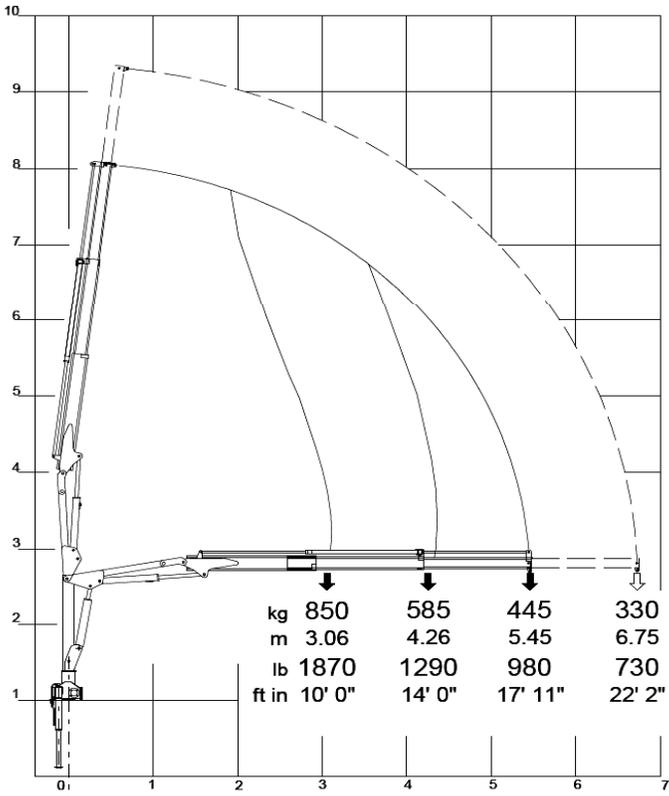


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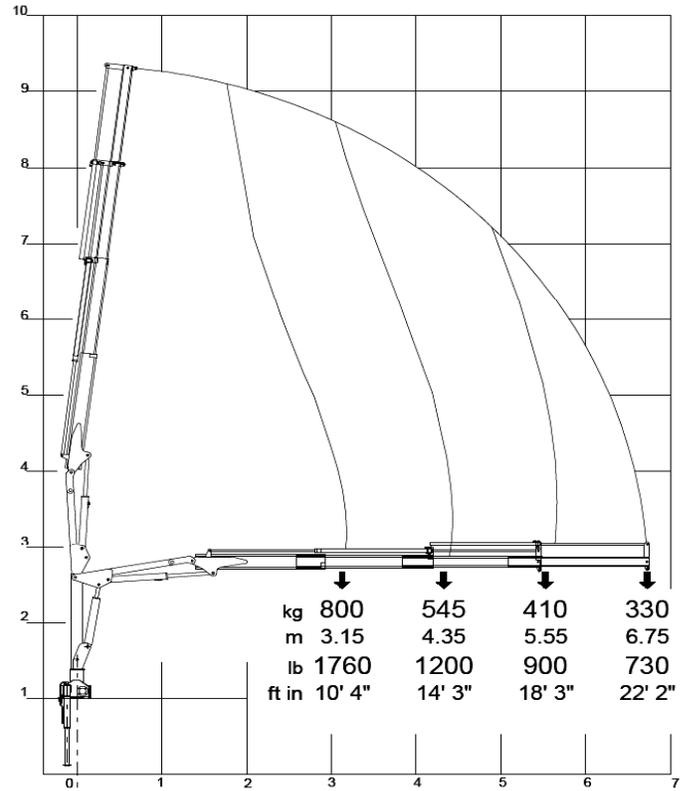
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## Capacity Charts

### AC3-19 2 Hydraulic Extension



### AC3-19 3 Hydraulic Extensions



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