



HOME CUSTOMER OPPORTUNITY PROPOSALS MY BUILDS TRUCK LIBRARY SUPPORT QUICK LINKS

### TURNING RADIUS ESTIMATOR

Configuration	Definitions
<b>Selected Options</b>	
Front Axle	0030262 Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Qtm/AXT/DCF
Front Tires	0078243 Tires, Front, Michelin, XZY3 (wb), 385/65R22.50, 18 ply
Front Wheels	0019611 Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Chassis	0624889 Arrow XT Chassis, Aerials/Tankers, Tandem Axle
Bumper	0550014 Bumper, 13" Extended, AXT, DCF/Saber FR/Enf
Aerial Device	0673136 Aerial, 105' Heavy Duty Ladder, (750 dry/500 water)
Wheelbase	255.50 in.
ESTIMATE	
<b>Results</b>	
Inside Cramp Angle	45°
Axle Track	82.92 in.
Wheel Offset	4.68 in.
Tread Width	14.9 in.
Chassis Overhang	68.99 in.
Additional Bumper Depth	13 in.
Front Overhang	6 ft. 10 in.
Inside Turn	20 ft. 3 in.
Curb To Curb	36 ft. 4 in.
Wall To Wall	40 ft. 7 in.
<b>Notes</b>	<p>Actual Inside Cramp Angle may be less due to highly specialized options.</p> <p>Curb to Curb turning radius calculated for a 9.00 inch curb.</p> <p>Reduce turning radius by 33% if vehicle is equipped with all-wheel steer.</p> <p style="color: red; font-weight: bold; font-size: 1.2em;">Total vehicle length = 41 ft.</p>

The SalesNet resource, and all related estimator tools, may be used to obtain product estimates based on the specific values you have entered and/or the options that you have selected. The SalesNet estimates are subject to a number of variables and may change based upon any future modification to a product variable, specification or configuration option. Certain product measurements and specifications are subject to a standard variance as determined by the manufacturer from time to time. Any estimates provided to Pierce Manufacturing Inc. customers and/or any other third party shall be clearly and expressly qualified by the above-referenced limitations.



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## TURNING RADIUS ESTIMATOR

Configuration

Definitions

**Inside Cramp Angle:** Maximum turning angle of the front inside tire.

**Axle Track:** King-pin to king-pin distance of the front axle.

**Wheel Offset:** Offset from the center-line of the wheel to the king-pin.

**Tread Width:** Width of the tire tread.

**Chassis Overhang:** Distance from the center-line of the front axle to the front edge of the cab. This does not include the bumper depth.

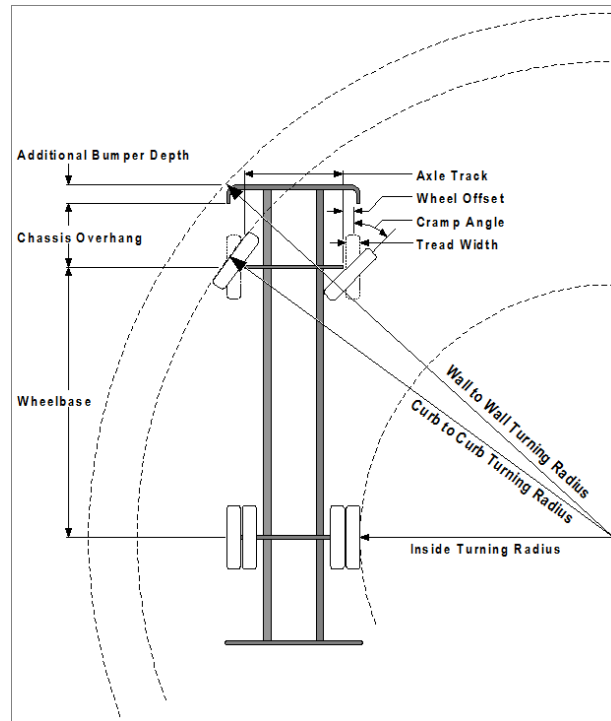
**Additional Bumper Depth:** Depth that the bumper assembly adds to the front overhang.

**Wheelbase:** Distance between the center lines of the vehicle's front and rear axles.

**Inside Turning Radius:** Radius of the smallest circle around which the vehicle can turn.

**Curb to Curb Turning Radius:** Radius of the smallest circle inside of which the vehicle's tires can turn. This measurement assumes a curb height of 9 inches.

**Wall to Wall Turning Radius:** Radius of the smallest circle inside of which the entire vehicle can turn. This measurement takes into account any front overhang due to the chassis, bumper extensions and/or aerial devices.



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