



HUB LOAD RATINGS WITH “OUTSET” WHEELS

Single Wide Base tires have been introduced as replacements for standard dual tires on drive and trailer axles. These Wide Base tires are typically mounted on wheels which produce an “outset” condition when mounted to the hub. A wheel has an “outset” condition if the centerline of the rim is outboard of the wheel mounting surface. When the centerline of the rim is outboard of the wheel mounting surface, the amount of “outset” is calculated as the distance from the centerline of the rim to the wheel mounting surface. This “outset” condition increases the bending moment (load) on the hub and correspondingly lowers the rating of the hub from its normal “zero offset” rating. Webb Wheel Products ductile iron hubs are approved for use with Wide Base wheels as shown in the table below. Note that for “zero offset” wheels, the hub load rating is unaffected, while use of “outset” wheels will reduce the load capacity.

Important: Suppliers of other associated components such as bearings and axles should be consulted for approval on applications with outset wheels as these components are also de-rated under “outset” conditions.

Hub Load Rating – for “P”, “N”, and “R-Type” Axles

Wheel Outset	P Type Axle (Parallel Trailer)	N Type Axle (Tapered Trailer)	N Type Axle (Tapered Trailer)	R Type Axle (Drive)
	Hub Load Rating (lb)	Hub Load Rating (lb)	Hub Load Rating (lb)	Hub Load Rating (lb)
Duals (Zero outset)	12,500	12,500	11,500	13,000
1” maximum	11,700	11,700	10,700	12,150
2” maximum	11,000	11,000	10,100	11,450
3” maximum	10,400	10,400	9,500	10,800
4” maximum	9,850	9,850	9,000	10,250

Note: You should consult Webb Wheel Products engineering for any applications not included in this table and for any base hub (zero outset) ratings that fall outside the above parameters.