

Axle Application Data Sheet

(English Units)

To receive our axle recommendation for your application, fill out this data sheet and mail or FAX it to Funk Manufacturing.

Fill out the information requested inside the dotted area:

Company

Date Submitted	_____	Company Name	_____
Street Address	_____	City, State, ZIP	_____
Submitted By	_____	Title	_____
Phone	_____	E-mail	_____
FAX	_____		

Vehicle

*Model	_____	*Vehicle Class	_____
*Type of Vehicle	_____	Yearly Volume	_____
Production Date	_____	*Steering (front, rear, 4-wheel, or articulated)	_____
*Drive Axle (front, rear, or 4-wheel)	_____	*Wheelbase (in)	_____
*Vertical Center of Gravity (in)	_____	Gradability (%)	_____
Interaxle Differential (Y or N)	_____	*Dual Tires Std tires (Y or N)	_____
*Funk axle requested (front, rear, both)	_____	Dual Tires Optional tires (Y or N)	_____

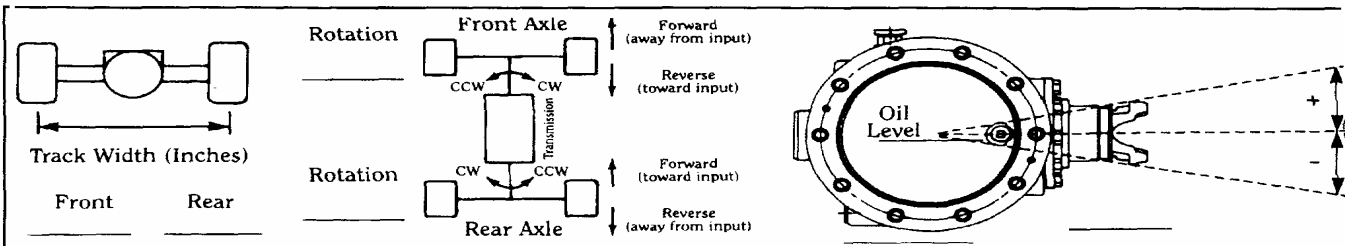
	Front		Rear
Tire Size, Standard	_____	Tire Size, Standard	_____
*Loaded Rolling Radius (in)	_____	*Loaded Rolling Radius (in)	_____
Tire Size, Optional	_____	Tire Size, Optional	_____
Loaded Rolling Radius (in)	_____	Loaded Rolling Radius (in)	_____
Track Width, Std tires (in)	_____	Track Width, Std tires (in)	_____
Track Width, Opt tires (in)	_____	Track Width, Opt tires (in)	_____
Input Inclination	_____	Input Inclination	_____
Desired Overall Axle Ratio	_____	Desired Overall Axle Ratio	_____

Duty Cycle

*General Description of Duty Cycle	_____	Surface (tilled, untilled, or compacted soil, concrete, etc.)	_____
*Traction Coef. (max.)	_____	Hours Operated/Year	_____
*Max. Speed (mph)	_____		

	% of Time Forward	mph	% of Time Reverse	mph
Empty	_____	_____	_____	_____
Loaded	_____	_____	_____	_____
Working	_____	_____	_____	_____
Peak	_____	_____	_____	_____
Total	0		0	

*Total % of time forward plus reverse must be 100% =



	Front	Rear
Rotation	<hr/>	<hr/>
Direction	<hr/>	<hr/>

	Front	Rear
Duty Cycle	<hr/>	<hr/>
*Empty Weight on Axle (lb)	<hr/>	<hr/>
*Max. Loaded Wt. on Axle (lb)	<hr/>	<hr/>
*Left to Right Weight Distribution	<hr/>	<hr/>
Peak Vertical Axle Load (lb)	<hr/>	<hr/>
Working Rimpull (lb)	<hr/>	<hr/>

	Front	Rear
Axle Configuration	<hr/>	<hr/>
*Desired Input Yoke Size	<hr/>	<hr/>
Desired Flange to Flange dimension	<hr/>	<hr/>
Wheel Mount (reamed hole or bolt size)	<hr/>	<hr/>
Outer bearing (greased, oiled)	<hr/>	<hr/>
*Park Brake (Y or N)	<hr/>	<hr/>
Park Brake Actuation	<hr/>	<hr/>
(SAHR or Manual Apply)	<hr/>	<hr/>
*Mounting Configuration	<hr/>	<hr/>
(fixed, or center oscillation)	<hr/>	<hr/>
*Service Brakes (Y or N)	<hr/>	<hr/>
Service Brake Type	<hr/>	<hr/>
Brake operating Pressure (kPa)	<hr/>	<hr/>
Brake Capacity at Wheel only	<hr/>	<hr/>
for a non Funk Axle (lb-ft@psi)	<hr/>	<hr/>
*Desired Differential Type	<hr/>	<hr/>
(Standard, Dif-Lock, or No-SPIN)	<hr/>	<hr/>
If Dif-Lok, type:	<hr/>	<hr/>
(capture, air boost or oil circulation)	<hr/>	<hr/>
Paint (primer, yellow, black, special)	<hr/>	<hr/>

	Front	Rear
Special Options (Y or N)	<hr/>	<hr/>
Offset Axle Housing	<hr/>	<hr/>
Zerk up	<hr/>	<hr/>
20 bolt option	<hr/>	<hr/>
Extreme Duty Final Drive	<hr/>	<hr/>
Alternate Breather Position	<hr/>	<hr/>
Dipstick	<hr/>	<hr/>
Ductile (1600 ED Axle)	<hr/>	<hr/>
Rotate axle housings	<hr/>	<hr/>

Note: Review Axle CD/Axle Application Manual/Axle Selection Guide/Axle Sales Order Checklist, view the help file or consult your Distributor for options available for each series.

Engine/Motor and Transmission Fill out only one of the options (A, B or C)

	Standard	Optional
A) Mechanical Engine and Transmission		
Engine:		
Make and Model	<hr/>	<hr/>
Gross Power (hp@rpm)	<hr/>	<hr/>
Net Power (hp@rpm)	<hr/>	<hr/>
Peak Torque (lb-ft@rpm)	<hr/>	<hr/>
Max RPM (no load)	<hr/>	<hr/>

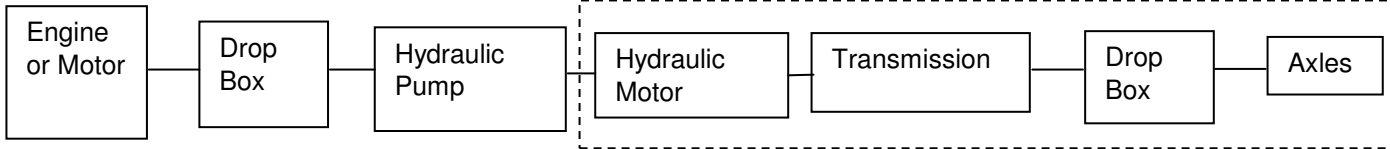
	Standard	Optional
B) Mechanical Transmission and Electric Motor		
Electric Motor:		
Make and Model	<hr/>	<hr/>
Working Power (hp@rpm)	<hr/>	<hr/>
Peak Torque (lb-ft@rpm)	<hr/>	<hr/>
Max RPM (no load)	<hr/>	<hr/>

Standard

Optional

C) Hydrostatic Transmission and Hydraulic Motor (driven by a Mechanic Engine or Electric Motor).

Hydraulic Motor:
 Make and Model
 Working Torque (lb-ft@rpm)
 Max Torque (lb-ft@rpm)
 Max Speed (no load)



Transmission:

Make and Model
 Manual or Power Shift
 Speeds forward
 Ratios forward
 Speeds reverse
 Ratios reverse

Torque Converter (Y or N)
 Speed Ratio @ rated rpm
 Max. Output Torque (lb-ft@rpm)

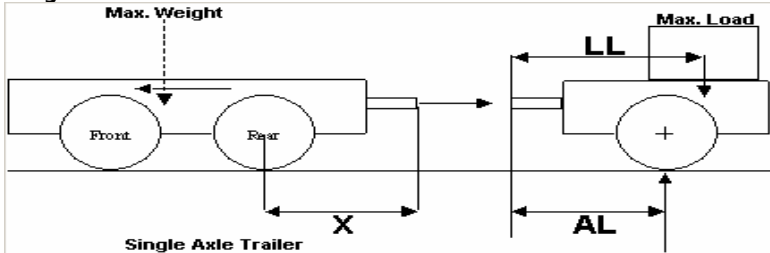
Drop Box and Tandem Ratios (Y or N)
 Between Engine and Transmission
 Between Transmission and Axle
 Between Axle and Wheels

if (Y) add Ratio Value

Trailer: Mark the vehicle situation

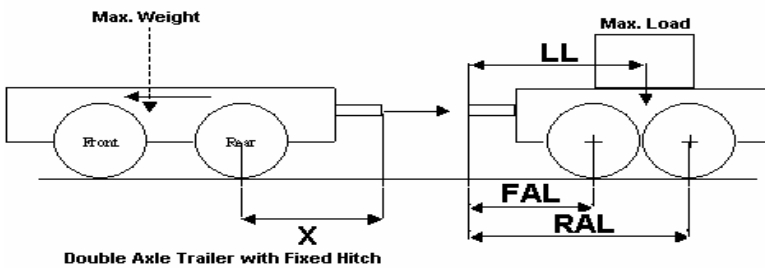
No Trailer
 Double Axle Trailer with Pivoting Hitch
 Single Axle Trailer
 Double Axle Trailer with fixed Hitch

Single Axle Trailer



No. of Wheels with Brakes
 Brake Capacity (lb-ft)
 Tire Rolling radius (in)
 Park Brake Torque (lb-ft)
 Max. Load (lb)
 Hitch LocationX (in)
 Hitch LocationY (in)
 Load LocationLL (in)
 Axle LocationAL (in)

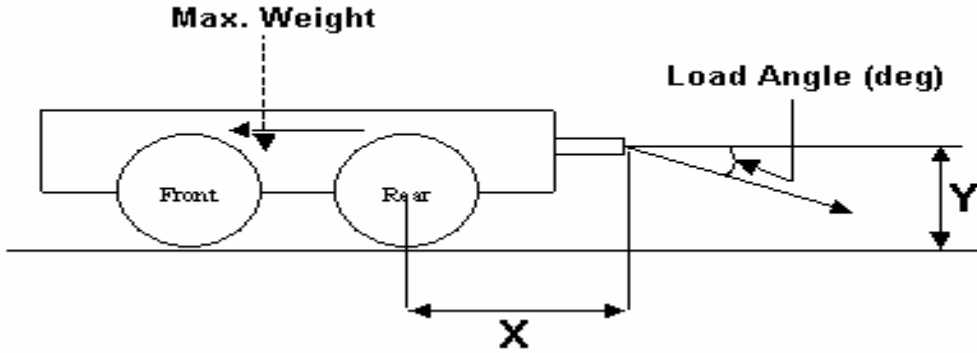
Double Axle Trailer with fixed Hitch



No. of Wheels with Brakes
 Brake Capacity (lb-ft)
 Tire Rolling radius (in)
 Park Brake Torque (lb-ft)
 Max. Load (lb)
 Hitch LocationX (in)
 Hitch LocationY (in)
 Load LocationLL (in)
 FrontAxleLocationFAL (in)
 RearAxleLocationRAL (in)

External Loads: The objective is to consider the worst case for each axle.
 Present the situation when the axle will have greater loads applied

	Front	Rear
Hitch LocationX (in)	<hr/> <hr/>	<hr/> <hr/>
Hitch LocationY (in)	<hr/> <hr/>	<hr/> <hr/>
Load Angle (Deg)	<hr/> <hr/>	<hr/> <hr/>
DrawBarPull (lb)	<hr/> <hr/>	<hr/> <hr/>



General Comments

If there is a photo or a web site where the vehicle or a similar vehicle can be viewed, please specify

Customer acceptance

I agree that I have fully and completely disclosed to the best of my ability the intended use and purpose for the recommended application and that any other use different from that which was specific and stated will render the warranty coverage and any liability for such use null and void.

I agree that the stated specification accurately and fully describes the vehicle for which Funk product is being considered and it is understood that the FUNK MANUFACTURING COMPANY LIMITED PRODUCT WARRANTY is applicable and is EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT BY WAY OF LIMITATION, ANY WARRANTY OF MERCHANTABILITY OF FITNESS FOR ANY PARTICULAR PURPOSE.

Signed by
 (Name, Company Name)
 Date
