



**TRANSMISSION ENGINEERING COMPANY**

Geared To Improve Your Performance

**APPLICATION  
DATA SHEET**

ADS Number	_____
Supersedes	_____

**HMD TRANSMISSION**

Firm Name \_\_\_\_\_ Address \_\_\_\_\_  
Information Furnished By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Information Furnished To \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Est. Yearly Vehicle Production: \_\_\_\_\_ Beginning Date \_\_\_\_\_ Prototype Req'd \_\_\_\_\_ Date \_\_\_\_\_

**VEHICLE DETAILS (Please provide a sketch of the vehicle)**

Model No. \_\_\_\_\_ Type of Machine \_\_\_\_\_  
Duty Cycle \_\_\_\_\_  
Max Gross Weight \_\_\_\_\_ LBS, Front Axle \_\_\_\_\_ LBS, Rear Axle \_\_\_\_\_ LBS  
Empty Weight \_\_\_\_\_ LBS, Front Axle \_\_\_\_\_ LBS, Rear Axle \_\_\_\_\_ LBS  
Front and Rear Axle Loading Changes Under Different Conditions (Tip, Crowd, etc. as Applicable): \_\_\_\_\_

Total Axle Reduction \_\_\_\_\_ Front \_\_\_\_\_ Rear \_\_\_\_\_  
Tire Size \_\_\_\_\_ RR \_\_\_\_\_ IN Opt. Tire Size \_\_\_\_\_ RR \_\_\_\_\_ IN  
Steering: Front: \_\_\_\_\_ Rear \_\_\_\_\_ Articulated \_\_\_\_\_ Driving: Front: \_\_\_\_\_ Rear \_\_\_\_\_

**VEHICLE PERFORMANCE REQUIREMENTS**

Typical Ground Material \_\_\_\_\_ Est. Tractive Coefficient \_\_\_\_\_  
Road Speed: Min Acceptable \_\_\_\_\_ MPH, Max Acceptable \_\_\_\_\_ MPH, Normal Rolling Resistance \_\_\_\_\_ %  
Max EVW Gradeability Req'd \_\_\_\_\_ %, and \_\_\_\_\_ LBS at \_\_\_\_\_ MPH  
Max GVW Gradeability Req'd \_\_\_\_\_ %, and \_\_\_\_\_ LBS at \_\_\_\_\_ MPH  
Max Tractive Effort @ Main Working Speed \_\_\_\_\_ LBS, Main Working Speed \_\_\_\_\_ MPH  
Gross Train Weight \_\_\_\_\_ LB, Req'd Speed @ GTW \_\_\_\_\_ MPH Towing Req'd. \_\_\_\_\_ at \_\_\_\_\_ MPH

**ENGINE**

Make & Model \_\_\_\_\_  
Gov. Speed Full Load \_\_\_\_\_ RPM, No Load \_\_\_\_\_ RPM  
Gross Power @ Gov. Speed \_\_\_\_\_ HP  
Torque Curve No. \_\_\_\_\_  
If not deducted in Torque Curve Complete Following:  
Engine Power for Fan @ Gov. RPM \_\_\_\_\_ HP  
Engine Accessories Power @ Gov. RPM \_\_\_\_\_ HP  
List Accessories \_\_\_\_\_

**PUMP DRIVE**

Make & Model \_\_\_\_\_  
Pump Drive Reduction Ratio \_\_\_\_\_  
No. of Pads \_\_\_\_\_

**PUMP**

No. of Pumps \_\_\_\_\_  
Make & Model \_\_\_\_\_  
Pump type: \_\_\_\_\_ Variable, \_\_\_\_\_ Fixed  
Normal Operating Pressure \_\_\_\_\_ PSI  
Max. Relief Pressure \_\_\_\_\_ PSI  
Displacement (in3 /rev) \_\_\_\_\_ Min., \_\_\_\_\_ Max  
Efficiency - Vol. \_\_\_\_\_ %, Mech. \_\_\_\_\_ %

**MOTOR**

Number of Motors \_\_\_\_\_  
Make & Model \_\_\_\_\_  
Motor type: \_\_\_\_\_ Variable, \_\_\_\_\_ Fixed  
Displacement (in3 /rev) \_\_\_\_\_ Min., \_\_\_\_\_ Max  
Efficiency - Vol. \_\_\_\_\_ %, Mech. \_\_\_\_\_ %

**TRANSMISSION**

Make & Model Used \_\_\_\_\_ Gear Ratios \_\_\_\_\_ No. Ratios Req'd \_\_\_\_\_  
Funk Model Suggested \_\_\_\_\_ Gear Ratios \_\_\_\_\_  
Operating Cycle \_\_\_\_\_  
Yoke Size: Input \_\_\_\_\_ Output Engine Side \_\_\_\_\_ Output Opposite Engine Side \_\_\_\_\_  
Axle Disconnect: None \_\_\_\_\_ Engine Side \_\_\_\_\_ Opposite Engine Side \_\_\_\_\_  
Parking Brake: Yes \_\_\_\_\_ No \_\_\_\_\_ Type & Size \_\_\_\_\_ Location \_\_\_\_\_  
Gross Weight & % Grade for Parking \_\_\_\_\_

**DUTY CYCLE**

**INPUT CONDITIONS**

<b>GEAR RANGE</b>	<b>TIME (%)</b>	<b>TORQUE (FT. LB.)</b>	<b>SPEED (RMP)</b>
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____

**AUXILIARY TRANSMISSION OR TRANSFER CASE**

Make & Model Used \_\_\_\_\_ Funk Model Suggested \_\_\_\_\_  
Gear Ratios \_\_\_\_\_ Yoke Size : IN \_\_\_\_\_ OUT \_\_\_\_\_  
Remarks: \_\_\_\_\_

**ADDITIONAL APPLICATION COMMENTS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PLEASE PROVIDE SKETCH OF APPLICATION**



<p><b>TO BE COMPLETED BY FUNK</b></p> <p>Funk Units Suggested for Application _____</p> <p>_____</p> <p>_____</p> <p>Reference Hydrostatic Performance Analysis No. _____</p> <p>Limitations, special test programs, or other conditions applicable to this application _____</p> <p>_____</p> <p>APPLICATION ENGINEER: _____ DATE: _____</p>
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**CUSTOMER ACCEPTANCE**

I agree that the stated specification accurately and fully describes the vehicle for which a 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 OR FITNESS FOR ANY PARTICULAR PURPOSE.

**SIGNED BY** \_\_\_\_\_ **DATE** \_\_\_\_\_