



ADS Number	_____
Supersedes	_____

# POWERSHIFT 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  
 Normal Direction of Operation: \_\_\_\_\_ Percentage of Time: \_\_\_\_\_ Forward \_\_\_\_\_ Reverse  
 Transmission Output Rotation for Normal Direction of Operation: \_\_\_\_\_ Enginewise \_\_\_\_\_ Anti-Enginewise  
 Total Axle Reduction \_\_\_\_\_  
 Tire Size \_\_\_\_\_ RR \_\_\_\_\_ IN Opt. Tire Size \_\_\_\_\_ RR \_\_\_\_\_ IN  
 Steering: Front: \_\_\_\_\_ Rear: \_\_\_\_\_ Articulated \_\_\_\_\_ Crab \_\_\_\_\_ Driving: Front: \_\_\_\_\_ Rear: \_\_\_\_\_  
 Cooling System: Type \_\_\_\_\_ Percent of Engine Power Cooled \_\_\_\_\_  
 Anticipated Altitude of Operation: From \_\_\_\_\_ FT To \_\_\_\_\_ FT

**VEHICLE PERFORMANCE REQUIREMENTS**

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

**STANDARD ENGINE**

Make & Model \_\_\_\_\_  
 Gov. Speed Full Load \_\_\_\_\_ RPM, No Load \_\_\_\_\_ RPM  
 Gross Power @ Gov. RPM \_\_\_\_\_ HP  
 Max Gross Torque \_\_\_\_\_ LB FT at \_\_\_\_\_ RPM  
 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 \_\_\_\_\_

**OPTIONAL ENGINE**

Make & Model \_\_\_\_\_  
 Gov. Speed Full Load \_\_\_\_\_ RPM, No Load \_\_\_\_\_ RPM  
 Gross Power @ Gov. RPM \_\_\_\_\_ HP  
 Max Gross Torque \_\_\_\_\_ LB FT at \_\_\_\_\_ RPM  
 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 \_\_\_\_\_

**TRANSMISSION**

Current Transmission \_\_\_\_\_ Gear Ratios \_\_\_\_\_ No. Ratios Req'd \_\_\_\_\_  
 Funk Model Suggested \_\_\_\_\_ Gear Ratios \_\_\_\_\_  
 Type Input Drive: Engine Mount \_\_\_\_\_ Midship Mount \_\_\_\_\_ Remote Mount \_\_\_\_\_  
 Yoke Size: Input \_\_\_\_\_ Output - Engine Side \_\_\_\_\_ Output - Opposite Engine Side \_\_\_\_\_  
 Engine Side Internal Axle Disconnect: Yes \_\_\_\_\_ No \_\_\_\_\_ Interaxle Differential No-Spin: Yes \_\_\_\_\_ No \_\_\_\_\_  
 Transmission Output Parking Brake: Yes \_\_\_\_\_ No \_\_\_\_\_ Type \_\_\_\_\_  
 Gross Weight & % Grade for Parking \_\_\_\_\_

**TORQUE CONVERTER**

Current Model \_\_\_\_\_ Funk Model Suggested \_\_\_\_\_  
Flywheel Housing SAE NO. \_\_\_\_\_ Yoke Size Out \_\_\_\_\_ Converter Stall Ratio \_\_\_\_\_

**TRANSMISSION OR CONVERTER PTO MOUNTED HYDRAULIC PUMPS**

Left Hand Pump Drive: Engine to Pump Gear Ratio \_\_\_\_\_ Disconnect Available \_\_\_\_\_  
Pump Make & Model \_\_\_\_\_ Flow \_\_\_\_\_ GPM @ \_\_\_\_\_ RPM  
Maximum Relief Valve Pressure \_\_\_\_\_ PSI, Normal Operating Pressure \_\_\_\_\_ PSI  
Pump Function and Duty Cycle \_\_\_\_\_  
Mounting Flange Size SAE \_\_\_\_\_ Pump Shaft Description \_\_\_\_\_  
Right Hand Pump Drive: Engine to Pump Gear Ratio \_\_\_\_\_ Disconnect Available \_\_\_\_\_  
Pump Make & Model \_\_\_\_\_ Flow \_\_\_\_\_ GPM @ \_\_\_\_\_ RPM  
Maximum Relief Valve Pressure \_\_\_\_\_ PSI, Normal Operating Pressure \_\_\_\_\_ PSI  
Pump Function and Duty Cycle \_\_\_\_\_  
Mounting Flange Size SAE \_\_\_\_\_ Pump Shaft Description \_\_\_\_\_  
Center Pump or PTO: Engine to Pump (PTO) Gear Ratio \_\_\_\_\_ Disconnect Available \_\_\_\_\_  
Pump Make & Model \_\_\_\_\_ Flow \_\_\_\_\_ GPM @ \_\_\_\_\_ RPM  
Maximum Relief Valve Pressure \_\_\_\_\_ PSI, Normal Operating Pressure \_\_\_\_\_ PSI  
Mounting Flange Size SAE \_\_\_\_\_ Pump Shaft Description \_\_\_\_\_  
Required PTO Output Torque \_\_\_\_\_ LB FT at \_\_\_\_\_ RPM Yoke Size \_\_\_\_\_  
Pump Function and Duty Cycle \_\_\_\_\_

**AUXILIARY TRANSMISSION OR TRANSFER CASE**

Make & Model Used \_\_\_\_\_ Funk Model Suggested \_\_\_\_\_  
Gear Ratios \_\_\_\_\_ Yoke Size : IN \_\_\_\_\_ OUT \_\_\_\_\_  
Additional Application Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TO BE COMPLETED BY FUNK MANUFACTURING**

Funk Units Suggested for Application \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Reference Engine Conv. Performance Analysis No. \_\_\_\_\_  
Reference Vehicle Performance Analysis No. \_\_\_\_\_  
Limitations, special test programs, or other conditions applicable to this application \_\_\_\_\_  
\_\_\_\_\_  
APPLICATION ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

**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** \_\_\_\_\_