



Date \_\_\_\_\_

# Application Data Sheet

(for Multiple Disc Clutches)

**Confidential**  
You incur no obligation by submitting this data and the non-public information provided will be held in confidence by ZF.

**This data sheet must be completed in its entirety for warranty consideration**

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Fax \_\_\_\_\_ Phone \_\_\_\_\_ Country \_\_\_\_\_

Email \_\_\_\_\_

Are you currently working with a ZF Off-Highway Distributor?  Yes  No If yes, which one and who is the contact?

**Estimated Annual Quantity** \_\_\_\_\_

Is this a military application?  Yes  No If yes, what is the destination country? \_\_\_\_\_

Is this an underground coal mine application?  Yes  No

## SPECIFICATIONS

Type of vehicle or machine \_\_\_\_\_ Name and model number \_\_\_\_\_

Type of clutch application (auxiliary unit; main drive line, etc.) \_\_\_\_\_

Is this application required to conform with recommended practices or standards, if so which ones?

## DRIVING UNIT (engine, hydraulic motor, etc.)

Maximum torque \_\_\_\_\_ @ \_\_\_\_\_ RPM

Type \_\_\_\_\_ Make and model \_\_\_\_\_

## DRIVEN UNIT (pump, compressor, etc.)

Type \_\_\_\_\_ Model \_\_\_\_\_

Starting torque: Maximum \_\_\_\_\_ @ \_\_\_\_\_ RPM Normal \_\_\_\_\_ @ \_\_\_\_\_ RPM

Running torque: Maximum \_\_\_\_\_ @ \_\_\_\_\_ RPM

## CLUTCH OPERATING REQUIREMENTS

Frequency of engagement and disengagement once / \_\_\_\_\_ Desired life \_\_\_\_\_ hours

Time engaged \_\_\_\_\_ Time disengaged \_\_\_\_\_ RPM while disengaged \_\_\_\_\_

RPM range \_\_\_\_\_ RPM minimum \_\_\_\_\_ RPM maximum while engaged \_\_\_\_\_

## SYSTEM

Actuating pressure available \_\_\_\_\_

Actuation method \_\_\_\_\_ (directional valve, pressure valve)

Back pressure in actuating system to clutch when disengaged \_\_\_\_\_

Type actuating fluid \_\_\_\_\_ Back pressure in cooling system \_\_\_\_\_

Cooling flow available \_\_\_\_\_ minimum \_\_\_\_\_ maximum

Cooling fluid temperature maximum expected \_\_\_\_\_

Actuating fluid temperature maximum expected \_\_\_\_\_

## CLUTCH MOUNTING REQUIREMENTS

Clutch input side mounting pilot SAE callout  A  B  C  D  M  Other \_\_\_\_\_

Clutch output side mounting pilot SAE callout  A  B  C  D  M  Other \_\_\_\_\_

Clutch input side spline/keyed shaft designation \_\_\_\_\_  Internal  External

Clutch output side spline/keyed shaft designation \_\_\_\_\_  Internal  External

Provide a sketch of the hydraulic circuit (if possible) or attach a file

Proposals will be made on the basis of the information provided. Subsequent customer engineering changes affecting the above could make our proposal invalid.

### NOTICE

Component and system recommendations made by ZF Off-Highway Solutions Minnesota Inc. are based on information supplied by you. ZF does not independently confirm or test information supplied, or test the applicability of components or system recommendations. All recommendations are based on theoretical application of ZF Off-Highway Products based on the information you provide. Actual results may vary based on actual use conditions or inaccuracies in provided information. You must finally accept and approve recommended components and systems after you test the performance of the recommended system and components in actual applications for which the system was designed and in which it is operated. ZF Off-Highway reserves the right to reject any orders for components and systems not so accepted and approved. No component or system recommendation is intended to be or shall be construed as an express warranty by ZF Off-Highway Solutions Minnesota Inc. All ZF Off-Highway Products and services are sold and provided subject to the ZF Warranties set forth at [www.mico.com](http://www.mico.com) in effect on the date of sale or supply.



**ZF Off-Highway Solutions Minnesota Inc.**

1911 Lee Boulevard / North Mankato, MN U.S.A. 56003-2507

**Tel:** +1 507 625 6426

**Fax:** +1 507 625 3212