

Technical Questionnaire for the selection of Cardan-Propshafts Vehicle application

Customer: _____ Issuers name: _____ Date: _____
 Phone: _____ Fax: _____
 E-Mail: _____ Adress: _____
 Vehicle manufacturer: _____ Vehicle model: _____
 Date for prototypes: _____ Start of production: _____ Annual volume: _____
over x years

Type of vehicle

Truck SUV Military vehicle
 Bus Construction / Earth moving machine Vehicle speed max.: _____ [km/h]

Number of wheels x number of driven wheels

4 x 2 4 x 4 6 x 2 6 x 4 6 x 6 8 x 2 8 x 4 8 x 6 8 x 8
 All wheel drive permanent yes no

Kind of operation: % of life required

On road short distance _____ [%] Others _____ [%]
 On road long distance _____ [%] Use of trailer _____ [%]
 Urban _____ [%] Required life _____ [km]
 Off road _____ [%]

Environmental requirements

Operating temperature max.: _____ [° C] min.: _____ [° C] Storage temperature max.: _____ [° C] min.: _____ [° C]
 Others: _____

Engine / Motor

Diesel Gas Electric
 N° of cylinders _____
 Max. power _____ [KW] Max. torque _____ [Nm]
 Max. speed _____ [rpm] Overspeed _____ [rpm]

Gear box

automatic manual
 i low _____ i reverse _____
 i high _____
 Converter stall ratio _____

Transfer case

i low _____ i high _____
 Input max. _____ [Nm] Output max. _____ [Nm]
 Diff.-lock yes no
 Torque distribution:
 Diff. open: _____ / _____ [%] Diff. locked: _____ / _____ [%]

Axle

rigid independent suspension
 i diff. _____ i Axle _____ i hub _____
 Diff.-lock yes no
 Torque distribution:
 Diff. open: _____ / _____ [%] Diff. locked: _____ / _____ [%]

Tyre

Size _____ r stat _____ [mm] Friction factor μ _____
Type _____ r dyn _____ [mm]

Weights

	flat		% grade	
GVW	_____ [kg]			FA1 = First front axle
GCW	_____ [kg]			FA2 = Second front axle
Trailer	_____ [kg]			RA1 = First rear axle (after T-case)
FA1	_____ [kg]	FA1	_____ [kg]	RA2 = Second rear axle
FA2	_____ [kg]	FA2	_____ [kg]	M = fixed middle section of the output prop shaft
RA1	_____ [kg]	RA1	_____ [kg]	
RA2	_____ [kg]	RA2	_____ [kg]	

Propshaft length

	operating	maximum	minimum
Gearbox – T-case	_____ [mm]	_____ [mm]	_____ [mm]
T-case – FA2	_____ [mm]	_____ [mm]	_____ [mm]
FA1 – FA2	_____ [mm]	_____ [mm]	_____ [mm]
T-case – RA1	_____ [mm]	_____ [mm]	_____ [mm]
RA1 – RA2	_____ [mm]	_____ [mm]	_____ [mm]

Propshaft angles

	vertical	horizontal	compound max.
Gearbox – T-case	_____ [°]	_____ [°]	_____ [°]
M – FA1	_____ [°]	_____ [°]	_____ [°]
M – RA1	_____ [°]	_____ [°]	_____ [°]

In addition following information required

- Propshaft arrangement (sketch)
- Flange connections _____
- Swing diameter limited max. _____ [mm]
- Mission / load spectrum

Remarks
