

Technical Questionnaire for the selection of Cardan-Propshafts Vehicle application



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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 <input type="checkbox"/>	SUV <input type="checkbox"/>	Military vehicle <input type="checkbox"/>
Bus <input type="checkbox"/>	Construction / Earth moving machine <input type="checkbox"/>	Vehicle speed max.: _____ [km/h] <input type="checkbox"/>

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)
				RA2 = Second rear axle
FA1	_____ [kg]	FA1	_____ [kg]	M = fixed middle section of the output prop shaft
FA2	_____ [kg]	FA2	_____ [kg]	
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