

Technical Questionnaire for the selection of Double Cardan Transmission Shafts

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

Agricultural tractor	<input type="checkbox"/> Earth moving machine	<input type="checkbox"/> Number of wheels x number of driven wheels
Construction machine	<input type="checkbox"/> Commercial vehicle	<input type="checkbox"/> 4 x 4 <input type="checkbox"/> 6 x 6 <input type="checkbox"/> 8 x 8 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Military vehicle	<input type="checkbox"/> _____	<input type="checkbox"/>

Axle data

Max. axle input torque	TAi _____ [Nm]	Max. axle load	FA _____ [N]
Max. axle input speed	nAi _____ [min ⁻¹]	Axle weight distribution left / right	DL _____ / _____ [%]
Differential gear ratio	iD _____	Tyres	_____
Wheel hub ratio	iH _____	Static load radius	Rs _____ [mm]
Torque distribution left / right incl. differential lock	Ds _____ / _____ [%]	Dynamic load radius	Rd _____ [mm]
Max. braking torque	TBr _____ [Nm]	Friction coefficient	μ _____

Data for life time calculation

Kind of operation	Continuous torque [Nm]	Continuous speed [min ⁻¹]	Continuous angle [°] ⁽¹⁾	Time [%]
_____	_____	_____	_____	_____

⁽¹⁾ Steering angle

Requested lifetime: _____ [h]

Functional requirements

Max. axle steering angle	β _____ [°]	Peak temperatures	T _{peakmax} _____ [+° C]
Max. service temperature	T _{Pmax} _____ [° C]		T _{peakmin} _____ [-° C]
Min. service temperature	T _{Pmin} _____ [° C]		

Comments
