

# 21 Technical questionnaire

## for calculating the dimensions of the universal joints

Hans Bühler & Co.  
 Inh. Kurt-Giesler-Stiftung  
 Postfach 1240

D-73249 Wernau/Neckar

### Customer's address

Company \_\_\_\_\_  
 Street \_\_\_\_\_  
 Zip code \_\_\_\_\_  
 Contact person \_\_\_\_\_  
 Phone/Fax \_\_\_\_\_  
 Date \_\_\_\_\_  
 Signature \_\_\_\_\_

The following specifications are required for calculating the dimensions of universal joints:

1. enquiry regarding catalog item or special design ?      catalog-item       special design
2. driving side: electromotor \_\_\_\_\_       combustion engine \_\_\_\_\_   
 power output \_\_\_\_\_ kW      at speed \_\_\_\_\_ r.p.m.  
 torque max. \_\_\_\_\_ Nm      at speed \_\_\_\_\_ r.p.m.  
 coupling type: \_\_\_\_\_  
 flexible intermediate element      yes       no
3. driven side      drive       axis differential       pump

### 4. Operative environment:

#### 4.1 Impact factors (fz) for most widely used drives, e.g.:

drive	with flexible intermediate element	(x)	without flexible intermediate element	(x)
electromotor	1,0	<input type="checkbox"/>	1,0 - 1,5	<input type="checkbox"/>
gasoline engine more than 4 cyl.	1,25	<input type="checkbox"/>	1,75	<input type="checkbox"/>
gasoline engine less than 4 cyl.	1,5	<input type="checkbox"/>	2,0	<input type="checkbox"/>
diesel engine more than 4 cyl.	1,5	<input type="checkbox"/>	2,0	<input type="checkbox"/>
diesel engine less than 4 cyl.	2,0	<input type="checkbox"/>	2,5	<input type="checkbox"/>
other drive:				

- 4.2 special conditions:    intense dust contamination and pollution  yes       no  
 ambient temperature \_\_\_\_\_ C°  
 peak temperature \_\_\_\_\_ C°  
 humidity or steam       yes       no  
 acidic steam       yes       no

5. Joint specifications:    max. torque \_\_\_\_\_ Nm  
 permanent torque \_\_\_\_\_ Nm  
 max. speed \_\_\_\_\_ r.p.m.  
 deflection angle a \_\_\_\_\_ degrees  
 length contracted (for shaft joints) \_\_\_\_\_ mm  
 length extended (for shaft joints) \_\_\_\_\_ mm  
 installation position       horizontal       vertical  
 service life required (approx.) \_\_\_\_\_ hours

