

9 Appendix

Precision gearbox - application data sheet

Specific application data is required for the selection of a suitable precision gearbox.
Please complete the following data sheet to enable us to respond quickly. Thank you.

1. Load cycle:

<p>Maximum input speed <input type="text"/></p> <p>Input speed [min^{-1}]</p> <p>Time (s)</p> <p>t_A t_R t_B t_P</p> <p>t_M</p> <p>t_C</p>	<p>t_A = acceleration time</p> <p>t_R = duration of uniform movement</p> <p>t_B = braking time (deceleration time)</p> <p>t_P = off-time - time between movements</p> <p>t_M = duration of the movement phase of a working cycle ($t_A + t_R + t_B$)</p> <p>t_C = duration of the entire working cycle ($t_M + t_P$)</p>
<p>Output torque [Nm]</p> <p>Time (s)</p> <p>T_A <input type="text"/></p> <p>T_R <input type="text"/></p> <p>T_P <input type="text"/></p> <p>T_B <input type="text"/></p>	<p>T_A = torque when starting (acceleration torque)</p> <p>T_R = torque at constant speed</p> <p>T_B = brake torque (deceleration torque)</p> <p>T_P = pause torque (to hold the position between the movements if necessary)</p>

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2. For how many hours a day is the application in operation? _____

3. What is the required reduction ratio? _____ : 1

4. Please specify the following input power data (motor):

1. Nominal speed: _____ [min⁻¹]

2. Continuous static torque: _____ [Nm]

3. Peak torque: _____ [Nm]

4. Manufacturer: _____

5. Model number: _____

5. Shall Sumitomo provide an input adapter?

- yes
- no

If you have selected "Yes", please specify the dimensions of the input or submit a copy of the dimensioned drawing.

Is it a motor shaft with or without a key?

- With key
- Without key

6. How is the gearbox connected to the final load?

- Direct coupling
- Toothed belt or sprocket drive (go to number 8 on the next page)
- V-belt (go to number 8 on the next page)
- Toothed gearbox or other gearbox (go to number 8 on the next page)
- Other (go to number 8 on the next page)

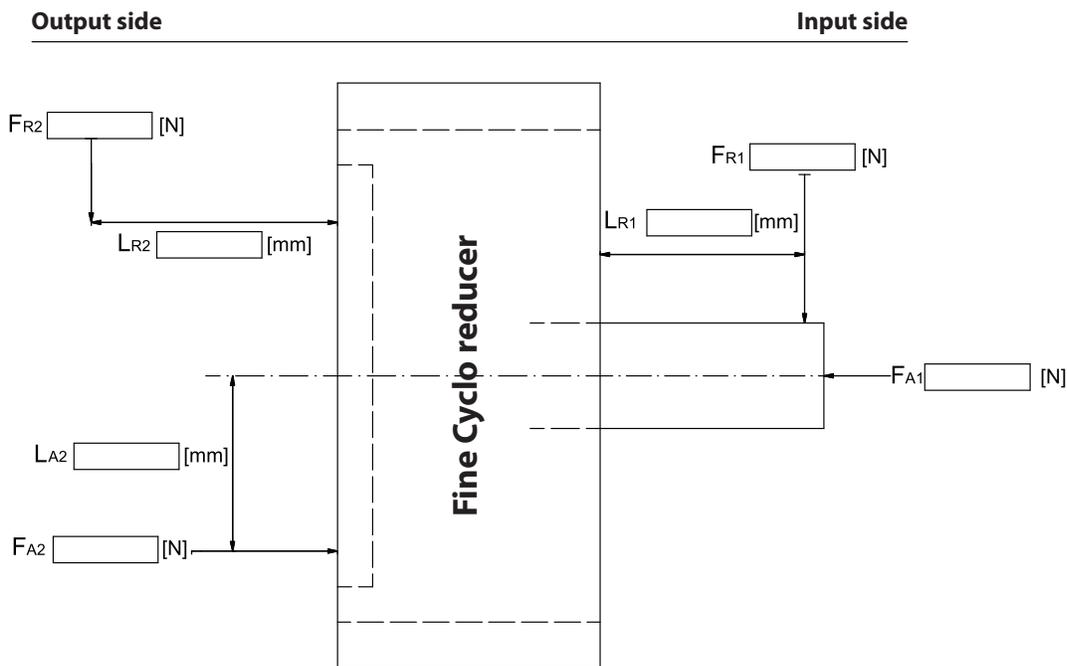
7. Please select one of the following load properties

- Uniform load
- Moderate impact load
- Heavy impact load

8. Radial and axial load

Is there a radial and/or axial load on the output flange?

- yes
- no



- F_R = radial load
- L_R = distance from radial force to flange collar
- F_A = axial load
- L_A = distance of the axial load from the centre line
- 1: Input side
- 2: Output side

9. Please describe your application in as much detail as possible (if possible, please enclose drawing).