

Application Questionnaire for Gear Selection

Company Name: _____

Phone: _____ Fax: _____ Email: _____

Application description: _____

Ambient operating temperature range (°F): _____

Operating environment description: _____

Hours operated per day: _____ Start/Stops per day: _____

Is this a reversing application? Yes No if Yes, how often per hour: _____

Are there any size restrictions? Explain: _____

Moment of Inertia of Driven Machine: _____

PRIME MOVER INFORMATION:

Electric motor? Frame size: _____ Rated HP: _____ at _____ RPM

Foot mount? C-face? Integral gearmotor? Peak torque (lbs.): _____

Frequency of peak torque: _____/hour

Duration of peak motor torque (seconds): _____ Phase/ frequency/ voltage: _____

Internal combustion engine? Single cylinder? Multi-cylinder?

HP _____ or torque (lbs.) _____ developed at _____ RPM

Other prime mover? Explain: _____

Is the prime mover directly coupled to the reducers? Yes No If No, explain: _____

GEAR DRIVE INFORMATION:

Type of unit required:	<u>Shaft Mount Reducer</u>	<u>Worm Gear Reducer</u>	<u>Helical/Helical-Bevel</u>
	<input type="checkbox"/> Original (SMR)	<input type="checkbox"/> Cast Iron (HdR)	<input type="checkbox"/> Inline (WINL)
	<input type="checkbox"/> Eliminator (SCSMR)	<input type="checkbox"/> Stainless Steel (SSHdR)	<input type="checkbox"/> Helical-Bevel (KAN/KHN)
	<input type="checkbox"/> Ultimate (WSMR)	<input type="checkbox"/> Aluminum (CALM)	

Desired ratio: _____ Ratio tolerance: _____ Mounting position: _____

Constant speed? Variable speed? If variable speed, what is the desired speed range? _____

Backstop required? Yes No Direction of rotation: Clockwise? Counter Clock?

Overhung Load? Input shaft Output shaft Radial load Thrust load

Radial load location on shaft of OHL from shaft shoulder (F_N): _____(in.)

Angle of applied load: _____(degrees) Load: (F_N Perm): _____(lb.)

Thrust load - toward unit? Away from unit?

Special features or accessories required? Yes No

If Yes, detail features required (i.e. output covers, mounting brackets, etc.): _____

Information required to size a motor and shaft mount reducer for a belt conveyor drive system

- 1) What is the length of conveyor?

- 2) What is the conveyor belt width?

- 3) What is the incline angle or discharge height from load zone/ground?

- 4) What is the head-pulley (drum) diameter?

- 5) What type of material is being conveyed?

- 6) What is the productivity or through-put expressed in either tons per hour and/or feet per minute?

- 7) How many hours of operation does the equipment operate per day or per week?

- 8) Is there the presence of shock loading, and if so what is the frequency and severity?

- 9) What is the number of starts and stops (cycles) per hour or day?