

# Bell Housing PTO Clutch - Application Fact Sheet - METRIC

## General Information

Company Name:	Date:
Contact Name:	Title:
Address:	Division:
City, ST, Zip:	Phone: <span style="float: right;">Ext.:</span>
E-Mail:	Fax:

<b>Driving Unit:</b> <input type="checkbox"/> Main Engine <input type="checkbox"/> Auxiliary Engine	<b>Driven Unit:</b> Brand/Model:
HP Rating:	<input type="checkbox"/> Pump <input type="checkbox"/> Compressor <input type="checkbox"/> Auger <input type="checkbox"/> Other
Brand/Model:	Starting Torque (Max) <span style="float: right;">Nm</span>
Max Torque: <span style="margin-left: 100px;">Nm @</span> <span style="margin-left: 100px;">RPM</span>	HP Rating <span style="margin-left: 100px;">@</span> <span style="float: right;">RPM</span>
	Running Torque (Max) <span style="float: right;">Nm</span>

<b>Conditions at Engagement:</b>	Engagement Frequency (Per Hour):
<input type="checkbox"/> Stationary <input type="checkbox"/> Full Load <input type="checkbox"/> Without Load	Time Engaged:
Max RPM While Engaged:	Time Disengaged:
Max RPM While Disengaged:	Period of Acceleration (Seconds):
Max RPM at Time of Engagement:	Ambient Temperature of Operating Environment (°C)
Actuation Pressure: _____ PSI <input type="checkbox"/> Hydraulic <input type="checkbox"/> Pneumatic <input type="checkbox"/> None: Quote Power Pack Unit <input type="checkbox"/> 24 VDC <input type="checkbox"/> 12 VDC <input type="checkbox"/> 120 VAC	

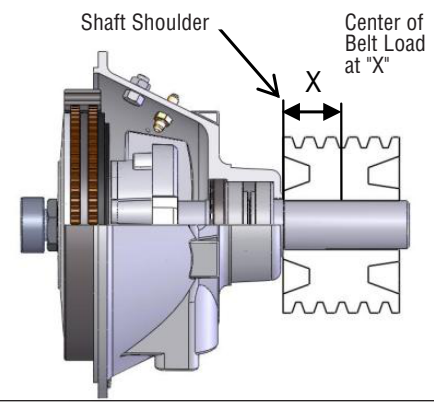
<b>Conditions During Engagement:</b> Load Type: <input type="checkbox"/> Constant <input type="checkbox"/> Pulsating <input type="checkbox"/> Light Shock <input type="checkbox"/> Heavy Shock
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<b>Clutch Mounting Requirements:</b>
SAE Housing Size: _____    SAE Flywheel Size: _____    Pilot Bearing O.D.: _____
Output Configuration Required:    Shaft/O.D., Key: _____ <input type="checkbox"/> SAE Flange Mount Size: _____

<b>Power Transmission Through:</b>
<input type="checkbox"/> Side Load <input type="checkbox"/> In-Line
<u>Side Load Analysis:</u>
1. Driving Pulley/Sheave Dia: _____
2. "X" Distance (note illustration): _____
3. Driven Pulley/Sheave Dia: _____
4. Pulley Type: <input type="checkbox"/> Chain/Gear <input type="checkbox"/> Timing Belt <input type="checkbox"/> V-Belt <input type="checkbox"/> Flat Belt
5. Side Load (lbs) = $\frac{1,945,00 \times \text{kW}}{\text{Shaft Speed RPM} \times \text{Sheave Pitch Dia (mm)}} \times \text{Load Factor}$

**Load Factor:**  
 1.0 For Chain or Gear Drive  
 2.5 For All v-Belts  
 3.5 For Flat Belts

For Reciprocating Compressors and Other Severe Shock Drives, Multiply Load Factors by 2.1



<b>Machine Description / Comments / Additional Details:</b> _____
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<b>Commercial Data:</b>
Project Only <input type="checkbox"/> Yes <input type="checkbox"/> No        Quantity Required _____
Product Line <input type="checkbox"/> Yes <input type="checkbox"/> No        Annual Volume _____
Target Price Per Unit <input type="checkbox"/> Yes <input type="checkbox"/> No        If yes, indicate price _____
<b>Type of Proposal:</b>
Current Production <input type="checkbox"/> Yes <input type="checkbox"/> No
Feasibility (layout drawing + target price) <input type="checkbox"/> Yes <input type="checkbox"/> No
Immediate Need <input type="checkbox"/> Yes <input type="checkbox"/> No

A fixed orifice pressure regulating valve should be specified in the system to prevent over-pressurization of any Logan Clutch PTO. The Logan warranty does not cover clutch failure due to over-pressurization. The highest pressure values in the torque tables are maximum ratings for Logan Clutches. All rotating components present a potentially hazardous condition and should be guarded in accordance with OSHA requirements and other applicable laws, regulations and industrial standards.

Logan Clutch Corporation reserves the right to modify product specifications and designs without notice and without incurring obligations. Torque values are based upon wet disc packs having full contact between surfaces.

**Torsional Damping Devices for Logan Products:** Torsional compatibility tests rest solely with the assembler and user. Logan accepts no liability for noise, vibration, and premature failure of Logan PTO's or damage to clutch hubs and splines caused by incorrectly specified torsional damping devices, or engine vibration. It is the buyer's responsibility to specify this option, which can result in additional cost and a possible increase in installation length. Logan can accept no liability for personal injury, loss of life, or damage or loss of property due to the failure of the buyer to improperly apply Logan products.

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**CUSTOMER ACCEPTANCE:**  
 I agree that the stated specification accurately and fully describes the vehicle or system for which a Logan product is being considered.

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date Submitted: \_\_\_\_\_ Revision Level: \_\_\_\_\_