

## Lifecycle Services

Engineering Solutions for Mechanical Power Transmission Products

### APPLICATION

Aggregate Quarry

### DESCRIPTION OF PROBLEM

Due to a blocked screen deck, an aggregate quarry was unknowingly losing about 60,000 tons of production per year. The blockage also created excessive loads on the springs which led to additional maintenance costs.







### LIFECYCLE SERVICES SOLUTION

Lifecycle Services by Browning®, Kop-Flex® and Sealmaster® installed a state-of-the-art monitoring system on the shaker screen. The monitoring system detected changes in the operation, reliability and performance of the equipment. This information helped the quarry operations team schedule a shutdown to clear the blocked screen and address other problems.



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Service Type	Description	Offerings
 <p><b>Diagnostics</b></p>	<p>Tools and techniques used to measure the performance of a customer's application (determine the root cause of performance problems, measure the effects of product changes, establish a product / application base and confirm expected product performance)</p>	<ul style="list-style-type: none"> <li>• Troubleshooting</li> <li>• Validation before and after performance measurements</li> <li>• Asset Management Program</li> <li>• R&amp;D / Testing</li> </ul>
 <p><b>Education</b></p>	<p>Technical mechanical power transmission product, process and application training for customers</p>	<ul style="list-style-type: none"> <li>• eLearning training curriculum</li> <li>• Customer location training sessions</li> <li>• Off-site training sessions</li> <li>• Factory based training sessions</li> </ul>
 <p><b>Design</b></p>	<p>Assist customers in reviewing application needs and help select the appropriate products</p>	<ul style="list-style-type: none"> <li>• Product selection assistance</li> <li>• Product licensing</li> <li>• Custom product design</li> <li>• Certified layouts</li> <li>• BOM: Complete list of required products and accessories</li> </ul>
 <p><b>Installation</b></p>	<p>Installation and startup of mechanical power transmission products</p>	<ul style="list-style-type: none"> <li>• Can provide a project manager, general contractor or consultant for the installation as well as additional labor</li> </ul>
 <p><b>Monitoring</b></p>	<p>Experts will teach customers how to use or install monitoring equipment to measure the health of products. Helps the customer transition from reactive maintenance to a predictive maintenance program</p>	<ul style="list-style-type: none"> <li>• Electrical power consumption monitoring</li> <li>• Mechanical torque / power monitoring</li> <li>• Thermal imaging monitoring</li> <li>• Ultrasonic measurement monitoring</li> </ul>
 <p><b>Repair</b></p>	<p>Repair, rebuild or refurbish damaged or worn power transmission products</p>	<ul style="list-style-type: none"> <li>• Repaired / refurbished products come with a factory warranty at a fraction of the price of a new product</li> </ul>

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