



A Leader in Electric Motor Testing

Tip Of The Week

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Current Demodulation's Use in Alignment

Utilizing current demodulation, the speed of the motor can be identified by a peak in the spectrum and monitored for changes in amplitude. A properly balanced and aligned motor will result in a low amplitude frequency peak related to its speed. When the motor is out of balance or misaligned, the amplitude of this peak increases. As the severity worsens, multiples of the speed frequency will develop in the demodulated current spectrum. To view an example of the change in amplitude of the running speed and two times running speed during a precision alignment of a pump and motor read *Fault Zone Analysis - Identifying Motor Defects Using the Rotor Fault Zone* at

http://www.pdma.com/pdfs/Articles/Fault_Zone_Analysis_-_Identifying_Motor_Defects_Using_the_Rotor_Fault_Zone.pdf.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA® mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or lou@pdma.com.

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