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## Dynamic Balancing

When a system is specified dynamically balanced, both the sheave/sprocket and bushing are balanced as a set. The bushing and sprocket/sheave bolt pattern is marked so that when installed in the field the system is balanced. (Usually one bolt hole on the bushing and one on the sheave/sprocket is marked).

If not installed properly, this may pose a vibration problem. To assure that the full benefits of this extra procedure are achieved, it is recommended that bolts be torqued carefully and sequentially. Torque should be applied in several smaller increments - not all at once.

Although dynamic balancing is most often used on high speed drives, it may also be required on lower speed drives for larger diameter, wider pulleys. The higher belt speeds may also dictate special materials for the pulley such as ductile iron or steel. The smaller diameter bushing is moving at a slower rim speed and may be used as a stock item in many cases. Also the bushing is at least partially retained with the pulley.