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Bearing Speed

Limiting speed is the speed at which a bearing can operate at light loads and normal operating conditions without failing prematurely. It is a guide only. Application speeds can vary widely.

Bearings in Dental Handpieces for example often run at speeds up to 3 times their limiting speed, however they are not expected to last as long as bearings in less demanding applications.

Listed limiting speeds apply to applications involving a rotating shaft. Speeds for applications involving a rotating housing can be up to 30% lower.

Many factors combine to affect the attainable speed and expected life of a bearing. Factors affecting speed and life include...

- Load
- Vibration
- Lubrication
- Cage Type
- Operating Temperature and Internal Clearance
- Moisture and Contaminants
- Mounting
- Precision
- Closures

More information relating to the above factors is available on the MBA web site.

For more information

<http://www.minibearings.com.au/technical/bearings/>

