



R.M. Hoffman Company
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Power Transmission Gearboxes - Shaft/Keyway Requirements

Shaft and Keyway Requirements:

Float-A-Shaft®

Slide-Rite™

Slide-Rite™CR

Shaft Diameter

Tolerance of plus 0.000 in. to minus 0.002 in. is recommended and should have runout within 0.002 in TIR.

Shaft Material

Use only alloy steel or stainless-steel for shafting, having a minimum hardness of RC40, or transmission shafting grade like 4140 or equivalent.

Shaft Finish

In stationary applications the shaft finish should be 64 RMS or better. Shaft finish for traversing applications should be 32 RMS.

Shaft Straightness

Shaft should be straight within 0.0015 in.TIR. per foot.

Keyway

Keyway should be made up to 0.001 oversize than the nominal. See dimension table for nominal keyway sizes. Sharp edges of keyway should be avoided.

Shaft Support

The shafts should be supported rigidly with either bearing blocks or pillow blocks to avoid excessive deflection.

Lubrication

The Slide-Rite Gearbox is lubricated at the factory and is ready for installation. **For most applications the unit is greased for life.** In the instance where additional lubrication is needed, an extreme-pressure synthetic lubricant which exhibits excellent anti-wear and rust protection qualities such as Mobilith® SHC 460 [14 oz. cartridge #0100-1605] or equivalent is recommended.

Temperature range.....0 - 300°F
 NGLI Number.....1.5 - 2
 Dropping Point (ASTM D566).....490+
 Penetration Worked (ASTM D217).....300