

## Fan Shaft

Ariel can provide a fan drive shaft on the auxiliary end of the smaller compressor frames. The fan drive shaft is to be used without a side load. The shaft should be supported with an outboard bearing pillow block pair if used with a side loading similar to a belt drive load. The fan drive shaft can be used up to the power limitations listed below.

The JGJ/2 shaft will require a pillow block arrangement for all applications to limit the axial thrust on the frame bearings.

The JG:A/2 and JGM:P:N:Q fan shafts connect to the crankshaft with a threaded connection. To avoid the threaded fan shaft from backing out due to shutdown deceleration, the fan inertia must be limited.

Frame	Fan Drive Horsepower (Max)	Fan Inertia (Max)
JGM:P:N:Q	15 hp	28 lb-ft <sup>2</sup> (4000 lb-in <sup>2</sup> ) (1.18 kg-m <sup>2</sup> )
JG:A/2	15 hp	28 lb-ft <sup>2</sup> (4000 lb-in <sup>2</sup> ) (1.18 kg-m <sup>2</sup> )
JG:A/4	15 hp	
JGJ/2	30 hp	
JGJ/4	50 hp	

**Figure: Fan Drive Shaft Drive End**

