

Series 400 carbon-fiber driveshafts provide a lightweight, low maintenance alternative to stainless steel driveshafts.

Marley's neoprene flexible bushings are easier to install and align than others using stainless steel torque elements. Series 400 driveshafts are designed for fans up to 10 meters in diameter and for motors up to 300 hp.

The Series 400 carbon fiber driveshafts offer you the following benefits:

**Low maintenance**—No intermediate couplings or bearings. You realize extensive savings in maintenance costs. The yoke and flange coupling design, featuring flexible bushings, has been proven for more than 40 years on the Marley Series 301 driveshaft. This

system is more tolerant of misalignment, with lower thrust forces transmitted to motor and Geareducer® bearings, than conventional driveshafts.

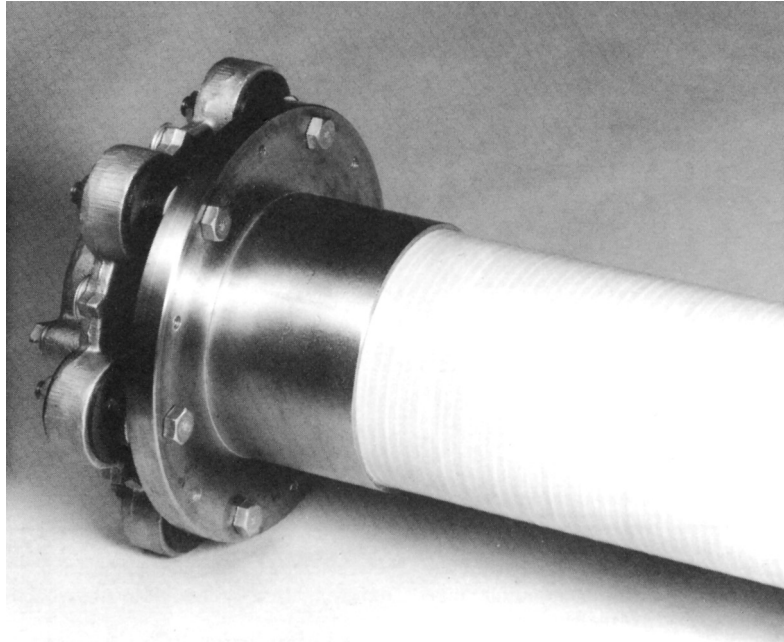
**Easy to install/Easy to align**—One-piece design eliminates hard-to-reach intermediate bearings. Installation requires fewer steps. The tube and flange is lightweight, easily handled by two workers.

**Long service life**—Rugged design includes carbon fiber/epoxy composite tube with stainless steel flanges and neoprene flexible elements. Also, vibration is internally dampened to prolong alignment and transmit less vibration to the motor and gearbox. All materials are specially selected for

cooling tower duty and longer life. The composite tube prevents transient start-up vibration.

**Corrosion resistant**—Materials such as composite carbon fiber, epoxy, stainless steel, and others help prevent corrosion.

**Easily interchanged**—Owners with Marley 301 stainless steel driveshafts can upgrade to the Series 400 simply by exchanging their existing driveshaft tube assembly with the new carbon fiber tube assembly and using the existing driveshaft yokes.



### SPECIFICATIONS

**Construction and Materials**—The driveshaft must be a full floating shaft with one nonlubricated flexible coupling at each end. No intermediate couplings may be used. The tube material must be a composite of carbon fiber and epoxy. The ring and flange must be 316 stainless steel. Neoprene flexible elements must transmit power from the input shaft to the driveshaft, and from the driveshaft to the speed reducer shaft.

**Performance**—The driveshaft must be capable of transmitting up to 300 hp at a rotating speed of 1750 RPM. The assembled driveshaft must be dynamically balanced at the manufacturer's plant and matchmarked for field reassembly.

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#### SPX COOLING TECHNOLOGIES, INC.

7401 WEST 129 STREET  
OVERLAND PARK, KS 66213 USA  
913 664 7400 | [spxcooling@spx.com](mailto:spxcooling@spx.com)  
[spxcooling.com](http://spxcooling.com)

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