



Overview

The Comp-DS driveshaft is a completely new, technologically advanced design, intended to meet or exceed the most rigorous cooling tower specification requirements

Primary Benefits

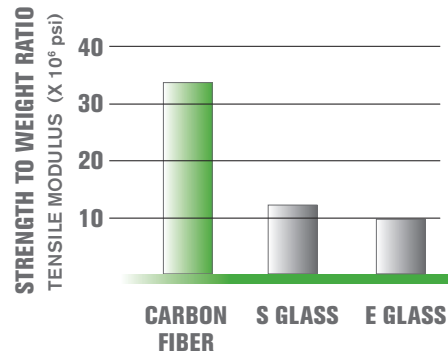
- Durable – The Marley® Comp-DS is the only cooling tower driveshaft* using carbon fiber flex elements – Addax® driveshafts use only fiberglass
Carbon Fiber can be up to 70% stronger per unit weight than fiberglass and three times stiffer
- Lightweight – One-third the weight of an equivalent stainless steel driveshaft
- Low Maintenance – Designed with minimum number of corrosion-resistant components

Benefit Detail

Durable

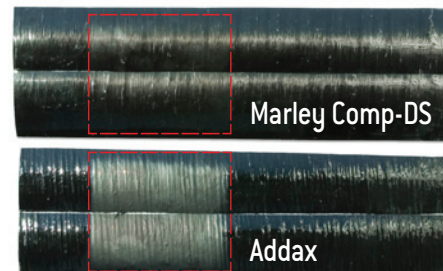
- Polyurethane encased carbon-fiber flex elements can withstand the most rigorous cooling tower duty
- Composite tube with infused UV inhibitors provides outstanding resilience against direct sunlight exposure
- Resin-transfer molded flanges are designed with unique geometry for stress reduction
- Single piece 316 stainless steel billet hub designed to minimize weight and operating stress

Flex Element Material Comparison



Source: Engineered Materials Handbook, Volume 1, Composites, First Edition, ASM International

Tube UV Resistance Test



UV chamber test results comparison after six weeks

more

*as of August 2011

Comp-DS Driveshaft Product INSIGHT

Benefit Detail

Lightweight:

- Reduced weight yields lower inertia that prolongs the life of the air movement mechanical package and with less vibration for smoother cooling tower operation
- Decreases installation time by eliminating the use of a hoisting crane

Low Maintenance:

- The single piece flex element requires four cap screws to secure the flex element to the flange
- Corrosion-resistant composite tube, flanges and flex element along with stainless steel hubs and hardware have a long lifespan, even in direct sunlight
- The unitized flex element is quicker to install compared to rubber bushing insert designs

Features

- Patent-pending flex element
- The composite-wound tube is available in four configurations optimized for specific applications:
 - Fiberglass
 - Fiberglass/Carbon Fiber Hybrid
 - Carbon Fiber
 - High Modulus Carbon Fiber
- 316 stainless steel hardware

Application Range

- COMP-4: 200 hp at 1500 rpm
spans up to 30 ft diameter fan
- COMP-6: 300 hp at 1500 rpm
spans up to 36 ft diameter fan

Lightweight

driveshaft type	weight
Stainless Steel	177 lb
Comp-DS composite	52 lb

Assuming 10 ft overall length driveshaft



Flex Element – patent pending

Key Contacts

Visit spxcooling.com to find your local representative



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