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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

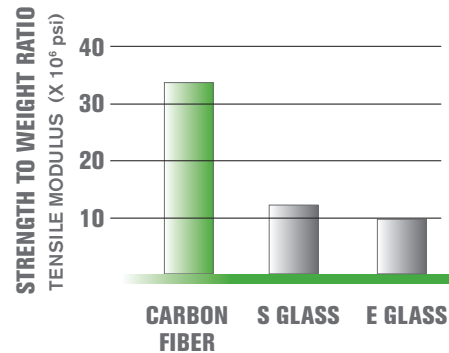
Benefit Detail

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

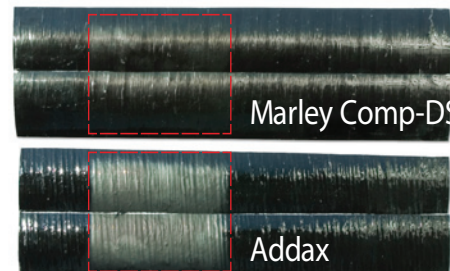


Source: Engineered
First Edition

Materials Handbook,
International

Volume 1,

Tube UV Resistance Test



UV

chamber test

results

comparison

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more ►►►

*as of August 2011

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

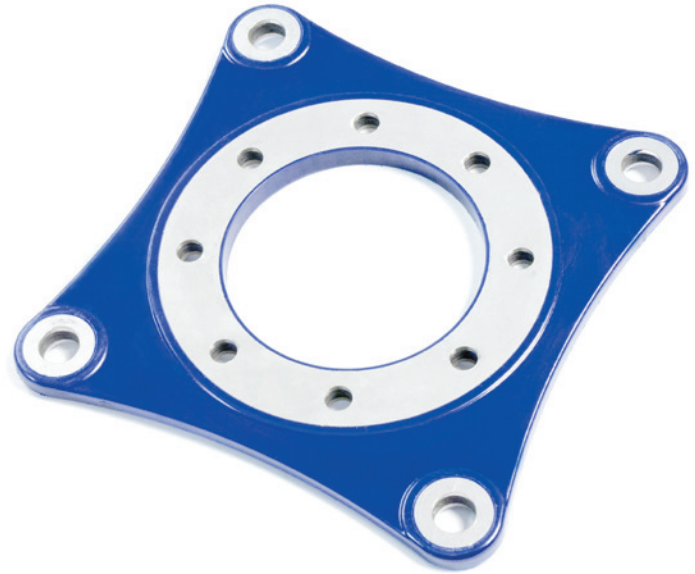
Application Range

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

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