Aluminum Accu-Bond™ Driveshafts

39550 7075 Aluminum Driveshaft

SFI FOUNDATION INC.
SFI SPEC 43.1

Mark Williams Accu-Bond™ aluminum driveshafts are custom built with the super tough 7075 or 6061 aluminum tubing and fitted with special MW forged or Billet 7075-T6 end yokes. The end yokes are mated to the tubing using our patented, (USPS 7,485,045 B2) Accu-Bond™ bonding process. This allows the end fittings to be produced from high-grade 7075 aluminum, increasing the strength (the normal weak link of any aluminum driveshaft). In addition, the use of aluminum allows a 50% weight reduction compared to a steel shaft.

All shafts are high-speed balanced to G30 specifications in relation to the actual operating speeds on MW's high-speed balancer. Balance weights are attached with our unique system of bolt-on balance weights. Accu-Bond™ shafts are available in both 3 1/2" and 4" diameters. The 4" diameter should be used for longer shafts to avoid critical speed limitations (the rpm at which the shaft wants to "jump rope") . The combination of the larger diameter and high strength of 7075 materials allow for a thinner wall thickness, resulting in a very light assembly. The 7075 shaft is ideal for applications where weight and critical speed are an issue. The 6061 Accu-Bond™ driveshaft is an economical alternative to the 7075-bonded shaft. This shaft has slightly lower operating speeds and ultimate strength compared to the 7075 shaft, but is adequate for most high-powered applications. Prices are less transmission yoke, which is required for proper balancing. All Accu-Bond 7075 and 6061 driveshafts are SFI 43.1 certified.

39555 Accu-Bond™ 7075 Driveshaft 952.00
3-1/2" O.D. x .110" 7075 aluminum, MW forged 7075-T6 end yokes and cold forged precision 1350 series U-joints. Meets SFI 43.1

39985 Accu-Bond™ 6061 Driveshaft 897.00
3-1/2" O.D. x .125" 6061-T6 aluminum tube, MW forged 7075-T6 end yokes and cold forged precision 1350 series U-joints. Meets SFI 43.1

39550 Accu-Bond™ 7075 Driveshaft 995.00
4" O.D. x .100" 7075 aluminum tube, MW forged 7075-T6 end yokes and cold forged precision 1350 series U-joints. Meets SFI 43.1

39560 Accu-Bond™ SSG, 1350 joint Driveshaft . .852.00
4" O.D. x .100" SSG 6062 aluminum tube, billet 7075-T6 end yokes and cold forged precision 1350 series U-joints.

Carbon Fiber Driveshafts

39100 Carbon Fiber Driveshaft

SFI FOUNDATION INC.
SFI SPEC 43.1

Carbon Fiber Shafts

In keeping with the advances in driveline technology, Mark Williams Enterprises offers a carbon fiber driveshaft assembly. The special Mark Williams aluminum end yokes are manufactured to extremely tight tolerances for a precise fit into to the carbon fiber tube. The end yokes are then installed in the carbon fiber tube using a proprietary, patented bonding system. A custom built assembly fixture ensures perfect alignment or "phasing" of the end yokes during this process. MW's precision 1350 series U-joints, are installed along with the transmission yoke and the assembly is electronically balanced using the race proven bolt-on weight system. The stiffness of the carbon fiber material allows for higher critical speeds thus making it ideal for longer applications such as Pro Stock Trucks etc. Price is less transmission yoke. MW carbon fiber driveshafts are SFI 43.1 certified when using a MW Yoke.

1) Higher critical speed rating over aluminum shafts

2) Can be used for extremely long shafts at high RPM.

3) Best power to shaft weight rating.

39155 Carbon Fiber Driveshaft . . . . . .1575 .00
4.1" O.D. Carbon Fiber shaft, MW 7075-T6 forged aluminum end yokes and cold forged precision 1350 series U-joints. meets SFI 43.1.

Driveshaft Testing

Our torsion testing ability is unparalleled in the industry. We are involved in special design and manufacturing processes for all types of driveline applications. Our in house torsion testing machine allows testing of all types of maximum torsion and cycle load tests.

Each Accu-Bonded™ shaft is load and cycle tested to assure performance quality before shipping. A certificate of test accompanies each shaft. As a support service we will perform proof testing for any MW produced driveshaft free of charge.