

ALUMINUM ACCU-BOND™ DRIVESHAFTS

MMC Shafts

- 1) Best for lightweight, high powered cars.
- 2) Light weight MMC material is 20% stronger than conventional aluminum shafts.
- 3) Increased speed characteristics over steel and regular aluminum shafts

39935 MMC Aluminum Driveshaft



Mark Williams Accu-Bond™ MMC aluminum driveshafts are custom built with the super tough Duralcan® MMC aluminum tubing and fitted with special MW forged 7075-T6 end yokes. The end yokes are mated to the tubing using a patent pending Accu-Bond™ bonding process. By utilizing the Accu-Bond™ process this allows the end fittings to be produced from high grade 7075 aluminum increasing the ear strength (the normal weak link) plus allows a 50% weight reduction compared to a steel shaft. Other improvements are a cold forged precision joint with nylon thrust buttons that maintains the preload and eliminates U-joint thrust galling. All shafts are high-speed balanced to G30 specifications in relation to the actual operating speeds on MW's high speed balancer utilizing our unique system of bolt-on balance weights. Duralcan® MMC aluminum shafts are available in both 3 1/2" and 4" diameters. The 4" diameter should be used for longer shafts to avoid critical speed (the rpm at which the shaft wants to "jump rope") problems. The combination of the larger diameter, high strength, and stiffness of the Duralcan® MMC material allow for a thinner wall thickness, resulting in a very light assembly making the Duralcan® MMC shaft ideal for applications where weight and critical speed are an issue. (Prices are less transmission yoke)

39935 Accu-Bond™ MMC Driveshaft 558.00
 3-1/2" O.D. x .110 Duralcan® aluminum tube, MW 7075-T6 end yokes
 and exclusive cold forged precision 1350 series U-joints.

39500 Accu-Bond™ MMC Driveshaft 582.00
 4" O.D. x .100 Duralcan® aluminum tube, MW 7075-T6 end yokes
 and exclusive cold forged precision 1350 series U-joints.

CARBON FIBER DRIVESHAFTS

39100 Carbon Fiber Driveshaft



In keeping with the advances in driveline technology, Mark Williams Enterprises is now offering a new carbon fiber driveshaft assembly. The special Mark Williams aluminum end yokes are manufactured to extremely tight tolerances for a precise fit into the carbon fiber tube. The end yokes are then installed in the carbon fiber tube using a proprietary bonding system. A custom built assembly fixture ensures perfect alignment or "phasing" of the end yokes during this process. MW's solid Spicer 1350 series high impact U-joints, which are standard with all Carbon Fiber assemblies, are installed along with the transmission yoke (*transmission yokes sold separately, see page 66 and 67*) and the assembly is electronically balanced using the same race proven bolt-on weight system used on the MW Duralcan® MMC aluminum driveshafts. 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. The MW Carbon Fiber driveshaft is the ultimate in weight savings and when running a Lenco or new G-Force transmission with a 16 spline output shaft, even greater weight savings are possible by using either an aluminum or titanium transmission yoke (*see page 67*). (Price Less transmission yoke)

Carbon Fiber Shafts

- 1) Higher critical speed rating over MMC shafts
- 2) Can be used for extremely long shafts at high RPM.
- 3) Best power to shaft weight rating.

39100 Carbon Fiber Driveshaft 800.00
 3.75" O.D. Carbon Fiber shaft, MW 7075-T6 aluminum end yokes and
 cold forged precision 1350 series U-joints.

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.

DRIVESHAFT TESTING



TO BE ELIGIBLE FOR MARK WILLIAMS CONTINGENCY AWARDS ON MW CHROMOLY, DURALCAN® MMC ALUMINUM, AND CARBON FIBER DRIVESHAFTS, THE WINNER MUST SUBMIT PROOF OF PURCHASE AND THE SERIAL NUMBER ON THE SHAFT, WHICH MUST BE USED WITH A MW TRANSMISSION SLIP YOKE.

Hi Speed Balancing.....See Page 69

toll free
800-525-1963

on the web
www.markwilliams.com