



SPORT & LEISURE

BLOWER INTAKE ON DRAG RACE CAR





CASE STUDY

BLOWER INTAKE ON DRAG RACE CAR

INDUSTRY

SPORT & LEISURE

APPLICATION

BLOWER INTAKE ON
DRAG RACE CAR

PRODUCT

MEGASYNC™
TITANIUM

SITUATION/APPLICATION

A blower intake on a dragster is part of the forced induction system designed to significantly increase the engine's power output. The blower, or supercharger, forces more air into the engine's combustion chambers than would normally enter through natural aspiration. This increased air allows for more fuel to be burned, which in turn generates more power.

The intake specifically directs this compressed air into the engine. In drag racing, where performance and speed are critical, the blower intake helps maximize the engine's efficiency, resulting in higher horsepower and faster acceleration down the track.



THE PROBLEM

The drag racing community faced challenges with the longevity and performance of belts installed in blowers for their monstrous engines. These engines push an astounding 1800 ft-lbs at 2,000 horsepower, with a staggering 7,700 RPM at the motor. When we discuss performance at this level, the stakes are extremely high.

Through one of our valued distributors, our sales team reported a recent installation of the MEGASYNC™ Titanium belt in the blower of a drag race car. This isn't just any drag race car. These vehicles can speed through a quarter mile in less than 5 seconds, with the belt enduring up to 7,200 RPM on the blower for the engine. The belts in this application were being replaced every 5-6 times down the 1/4 mile track.



MEGADYNE SOLUTION:

MEGASYNC™ TITANIUM

Produced with HNBR rubber compound, to absorb higher load and variable torque peaks, and with carbon fiber cords to carry the required higher power transmission, MEGASYNC™ Titanium belts improve the reliability, efficiency, and quality of the air intake performance compared to its competitor. Megadyne's commitment to innovation and quality has once again set a benchmark. Our MEGASYNC™ Titanium belt didn't just withstand the extreme demands of drag racing; it excelled, our belt lasted 50% longer than the previous one used in this application, offering our clients an unparalleled edge in their racing pursuits.

THE RESULT

- Extended belt lifespan
- Improved operational efficiency
- Less downtime
- Reduced maintenance costs and belt replacement



Contact our experts
to find out more