



THE GUIDE TO

TITANIUM

FOR

RACING





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TITANIUM

FOR

RACING

The racing community is constantly making new discoveries and improvements for exploiting titanium in a variety of ways, for the goal to build the “ultimate race car”. Driven by our passion for the auto racing industry, we supply teams with the titanium products needed in order to increase performance and meet the critical weight regulations imposed across different racing series.



WHY TITANIUM?

Many race teams are up against titanium restrictions and have to use their imaginations, plus there is the ever-present goal to save weight. Titanium allows you to do this by taking weight off the car and individual assemblies and even affording engineers the opportunity to add it back in areas where they choose.

WHERE DOES IT COME FROM?

Titanium is a naturally occurring element and the earth is generously stocked. Found in the sand on beaches primarily in Asia and Australia, titanium particles are chemically reduced, melted, forged, and rolled into what becomes the usable metal that is ultimately acquired by championship racing engineers.

TMS TITANIUM IS USED IN MANY OF THE TOP RACE SERIES, INCLUDING:



With more series added every year!

Titanium for



COMMON USES FOR THIS SERIES:

ENGINE VALVES

ROCKER SHAFTS

WHEELIE BARS

DRIVESHAFT ENCLOSURES

BELL HOUSINGS

FLYWHEELS

DRIVER SHIELD

LEVERS

BRACKETS

CLUTCHES



Titanium for



COMMON USES FOR THIS SERIES:

MOTOR PLATES

BOLTS

TUBING

BELL HOUSINGS

DRIVER PROTECTION

EXHAUST TUBING

DRIVESHAFT PROTECTION



Titanium for



COMMON USES FOR THIS SERIES:

FOOT PEGS

BOLTS

NUTS

SPOKE NUTS

HANDLE BAR PROTECTION



Titanium for



COMMON USES FOR THIS SERIES:

HUB CAPS FOR

CONTAINING THE AXLES

SUSPENSION BRACKETS

HARDWARE

GEARS

ROCKER SHAFT STANDS

ENGINE BAY BARS

BRAKE DUCTING

Titanium for other series



COMMON USES FOR THIS SERIES:

CRANK GEARS

SPIKES FOR SNOWMOBILE

DRIVE BELT

MAIN FRAME COMPONENTS

HARDWARE

HANDLE BAR NECK

BIKE FRAME

AXLES

HUBS

TOP TITANIUM USES FOR RACING

Titanium is used to **contain explosions**, keeping projectiles from being shot out through valve covers with possible injury to driver or spectators.

Titanium is commonly used in hanging body panels, intercoolers and for firewalls to **separate the driver from radiator and oil lines**.

Titanium shielding is used to **protect the drivers** in the case of engine explosions and fires.

Titanium bell housings and aluminum/titanium-lined bell housings are used to **contain clutch explosions**.

Because of its lightness and durability, titanium is used in connecting rods to **increase max RPM** and **decrease the time** to achieve this RPM.

Titanium tubing structures **support the body** and have the flexibility to **move without breaking** from the harmonics of hitting 300 mph in just a few seconds!

DID YOU KNOW?

- Titanium is able to fix itself. Todd Harrison, President of TMS Titanium:
“The reason that titanium is ultra corrosion resistant is because it forms an oxide layer over its surface to fight off contaminants. If this surface is damaged, the oxide layer actually repairs itself.”
- Titanium is the only metal that combines extremely high strength and very light weight with outstanding heat and corrosion resistance
- Titanium is the fourth most plentiful metal on Earth
- Titanium won't corrode when exposed to harsh weather, grease or most chemicals







LET'S GET STARTED

At TMS Titanium, we ensure the highest quality titanium products while also offering first-rate customer service, fast turn-around and no minimum order - all at a reasonable price. With our experience and knowledge in the metals industry, you can be confident in making TMS Titanium your first choice.

VISIT **[TMSTITANIUM.COM/GUIDE](https://www.tms titanium.com/guide)** TO REDEEM A SPECIAL RACING-RELATED TITANIUM OFFER.

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