

CERAMICSPEED



Part of the Victory



Photo © TDWSPORT.COM

*"As a time trial specialist and World Champion
I know how important it is to save watts.
That is why riding CeramicSpeed bearings motivate me.
It helps me ride faster and save watts."*

Tony Martin
Omega Pharma - Quick-Step

Save 6 to 9 watts – increase your maximum performance

CeramicSpeed bearings help you ride faster using less energy. This can be the difference between winning and losing. Whether you ride for pleasure or you are a pro athlete fighting the elements and the clock, you will benefit from riding CeramicSpeed bearings. In an Iron Distance event you can save up to 9 minutes! Take advantage whether you are riding road, tri, off-road or track.

See the savings potential below:

Distance (km)	Time saved (48 km/h)	Time saved (32 km/h)
40	0:25 min	2:00 min
90	0:55 min	4:30 min
180	1:50 min	9:00 min

Tests are made on SRM Science PowerMeter (accuracy +/- 0,5%). For detailed test information please see ceramicspeed.com

CeramicSpeed bearings reduce friction and increase the longevity of the bearings. Tests prove that you save 6 to 9 watts with CeramicSpeed bearings in hubs, pulley wheels and bottom bracket compared to a set of standard bearings. Tests are undertaken using exactly the same CeramicSpeed bearings that our sponsored teams are using and which are available in bike stores worldwide.

"The right equipment combined with peak physical fitness gives top performance. Team Astana is focused on both and that is why we are riding CeramicSpeed bearings. These small invisible parts on the bike play an important role to increase performance. CeramicSpeed bearings lower the friction, increase the power transfer and help us save watts and increase top speed."

Dmitriy Sedoun
Sports Director,
Technical responsible,
Team Astana

Maxim Iglinsky
winning Liège-
Bastogne-Liège
2012



Photo © Bétchini Photo

From world record to world-wide supplier

The founder of CeramicSpeed, Jacob Csizmadia, was the first to break the magic 500 km barrier in 24-Hour Inline skating. Prior to the record in 1998, the record distance was 470 km. Jacob built his own ceramic bearings for the 1998 world record and the bearings played an important role in the record-breaking 505 km event.

This was the foundation for developing bearings with extremely low friction. After the world record, Jacob Csizmadia wanted to give other athletes this opportunity and began specializing in ceramic bearing upgrades for bikes. CeramicSpeed was officially founded in 2004.

Jacob Csizmadia personally supervises upgrades of bicycles for professional teams at the Tour de France and individual racing enthusiasts around the world.

CeramicSpeed has 15 years' experience in bearing applications and has throughout the years developed a

close relationship with the best suppliers of components in each field. This enables us to design bearing solutions in accordance with our vision "Develop bearing solutions without compromises!"

This entrepreneurship has led CeramicSpeed to where it is today. CeramicSpeed is a world-wide supplier of highest quality top performance bearings which can really make a difference to you.

CeramicSpeed is represented in more than 20 countries and our products are available at a large number of bicycle retailers in each country and on our webshop. Our products are also used by high-end bike component manufacturers.

But we are still at the beginning - we want to help many more enthusiasts achieve better performance regardless of whether you are riding road, tri, off-road or track.

"Starting from scratch and now feeling the recognition that CeramicSpeed bearings have in the market is just amazing. This recognition can only be achieved because our bearings really make a difference. As we say in our vision statement, we do not compromise. This is a defining aspect of our success."

Jacob Csizmadia
CeramicSpeed founder and CEO



Low friction – go faster with less energy

The extremely low friction of the CeramicSpeed bearings is essential to the benefits it offers.

The ultra-smooth CeramicSpeed balls are 400% smoother than steel balls and more than 100% smoother than other ceramic balls used in bicycle bearings. The extreme smoothness gives you significantly less rolling resistance. This allows you to maintain a higher speed using less energy.

Due to the very low friction of our bearings, you will experience that your crank spins more freely, your wheels roll faster and your pulley wheels spin with a friction close to zero.

With CeramicSpeed bearings you are using less energy to maintain speed whether you are a Pro or an enthusiast riding for pleasure.

"Riding CeramicSpeed bearings gives me an edge because I know my power is going straight to the wheels and not being wasted on friction in the bearings. I only use the best materials available and I therefore choose to equip my bike with the best bottom brackets and pulleys on the market"

Dirk Bockel
Professional triathlete



"Your bike can be exposed to extreme conditions when riding off-road. One weekend it is 30°C with dust and sun and the next it can be 4°C with rain and mud. Standard steel bearings often need to be replaced every weekend when you ride in these conditions. This is not the case with CeramicSpeed bearings. They keep spinning and spinning under all conditions. I am especially fond of the titanium pulley wheels.

Apart from the extreme longevity, I also experience a very low rolling resistance which optimizes the power transfer."

Klaus Nielsen
Professional MTB rider



Power transfer - get the most out of your effort

The stiffness of your bottom bracket plays an important role in getting the most from your effort when you are riding.

CeramicSpeed balls are 63% stiffer than steel balls. Bearing stiffness is vital to getting all your energy transferred into the wheels.

The higher stiffness of the CeramicSpeed balls improves the stiffness in the bottom bracket area. A stiffer bottom bracket ensures your energy is optimally utilized and more watts will go into the drivetrain of your bike. For you, this means higher speed without using any more energy.

Increased stiffness is especially noticeable in acceleration and sprints.



Longevity

- CeramicSpeed bearings last longer

CeramicSpeed bearings are preferred by many mechanics due to their longevity and the great performance. The mechanics save time and the maintenance of the bike is made easier.

Due to the unique quality of the CeramicSpeed balls and the construction of the bearings they are less sensitive to water and other contamination. Corrosion is rarely seen. The balls are 128% harder than steel balls and 15% harder than other ceramic balls seen in the market. The hardness and the extreme smoothness mean that the CeramicSpeed balls polish the races instead of wearing them.

Bearing grease is also an important part of the longevity of the bearings. CeramicSpeed uses a specially designed grease to ensure the very low friction and the long life span of the bearings.

The high quality and the longevity of the bearing make CeramicSpeed bearings ideally suited for both road racing and off-road disciplines.

"We normally change bearings often during the season, but CeramicSpeed bearings are very reliable and last the entire season. The construction of the bearings is very good and we rarely see corrosion or contamination of CeramicSpeed bearings. It saves time for the mechanics and the riders get faster bearings."

Alejandro Torralbo
Mechanic
Team Saxo Bank-Tinkoff Bank



Higher top speed – takes you faster to your goals

The low friction of the CeramicSpeed bearings ensures that all of your power is transferred to the drivetrain instead of being wasted. This gives you a higher top speed.

CeramicSpeed bearings in hubs, pulley wheels and bottom bracket spin faster and allow you to more easily maintain your speed. When you are going downhill you will experience a significant increase in speed without using more energy.

For a sprinter, CeramicSpeed helps you fight for the last bit of top speed!

"As a sprinter, the top speed is very important. At the end of the day, it is all about saving watts so you have the most energy for the sprints. CeramicSpeed bearings help me save watts and increase the power transfer when pedaling. This is crucial for reaching maximum speed."

Jonathan Cantwell
Team Saxo Bank-Tinkoff Bank





Bottom brackets

*Find your local distributor
on ceramicspeed.com or
buy your products directly
on shop.ceramicspeed.com*

CeramicSpeed bottom brackets offer the lowest friction, increase the drivetrain stiffness and give you the best power transfer. High-quality components are assembled by hand into CeramicSpeed bearings.

The cups are designed to be as light and as stiff as possible while protecting the bearings against contamination. CeramicSpeed also makes upgraded bearings for Press-fit systems like BB30 and BB90 which do not use cups.

Bottom brackets are available in a special version with coated bearings. Both the inside and outside of the raceways are coated with a material that is 75% harder than hardened steel. This special coating reduces even further the friction while increasing resistance to water, salt and dirt contamination.

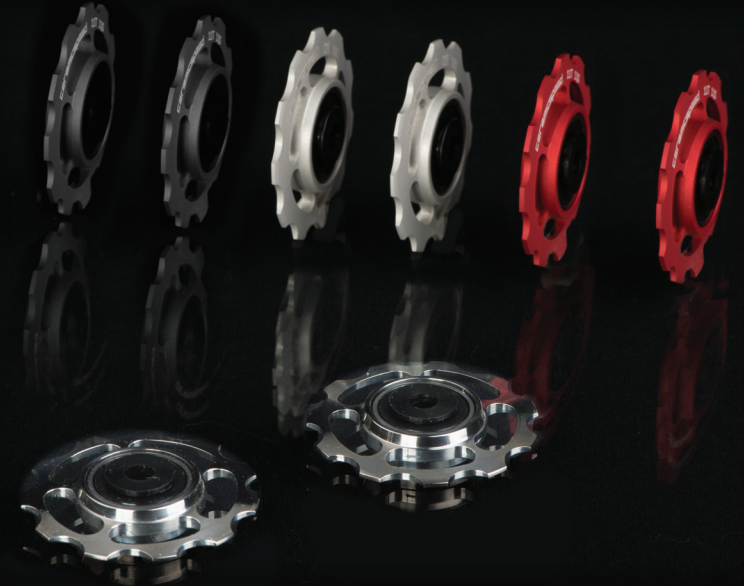
CeramicSpeed bottom brackets are available for road, track, triathlon and MTB.

Pulley wheels

CeramicSpeed pulley wheels are made to guide the chain in its ideal line and perform smooth and precise shifting. CeramicSpeed bearings virtually eliminate the drag normally associated with standard pulley wheels. Pulley wheels spin at the highest RPM; 4-5 times faster than the bottom bracket on a road bike (depending on gear ratio and speed). Therefore, low friction is extremely important in your pulley wheels.

CeramicSpeed pulley wheels are available as standard in aluminum and in a titanium version for extreme longevity. The titanium pulley wheels are also available with coated bearings. The combination of titanium pulley wheels and coated bearings gives the world's best pulley wheels with the lowest friction and highest longevity.

The coating adds protection against wear and corrosion. While the coating is beneficial in all applications, the most significant benefits are seen when the bearings are used for off-road disciplines. CeramicSpeed pulley wheels are available for road and MTB in 9, 10 and 11 speed versions.



Wheel upgrade kits

Find your local distributor
on ceramicspeed.com or
buy your products directly
on shop.ceramicspeed.com



Optimize your favorite wheelset with CeramicSpeed bearings. We offer complete kits for most leading brands.

CeramicSpeed wheel kits reduce friction and give you lower rolling resistance. This upgrade will give you the greatest return for your energy.

Many of the upgrade kits are also available in a coated

version. Both the inside and outside of the raceways are coated with a material that is 75% harder than hardened steel. This special coating reduces even further the rolling friction while increasing resistance to water, salt and dirt contamination.

Loose balls are also available for hubs that do not use cartridge bearings.

CeramicSpeed balls

The unique quality of the CeramicSpeed balls is essential to the very low friction, better power transfer and increased longevity that CeramicSpeed bearings offer.

CeramicSpeed balls compared to steel balls

CeramicSpeed balls are Grade 3 Silicon Nitride with the highest achievable surface finish and roundness. They are 400% smoother, 128% harder and 58% lighter than steel balls typically used in bicycle components.

CeramicSpeed balls compared to other ceramic balls

The smoothness and the hardness of the CeramicSpeed balls speaks for itself. After 600 hours of testing the CeramicSpeed ball is still in perfect condition whereas the surface of the other ceramic balls is rough and bumpy after only 10 hours of testing. The rough ball will create increased friction in the bearing and will quickly wear down the steel races.

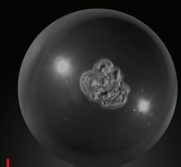
The CeramicSpeed balls are 15% harder, take 99% higher loads and are more than 100% smoother than other ceramic balls typically seen in the market.

See the unique impact strength of CeramicSpeed balls versus other ceramic balls used in the bicycle industry on ceramicspeed.com

Bearing fatigue test method



A CeramicSpeed
ball after 600 hours
of testing



Another ceramic
ball after 10 hours
of testing

CeramicSpeed quality

- a question of the best in the market



All parts for CeramicSpeed bearings are carefully selected from high quality suppliers. Our aim is to deliver top performance bearings to competitive athletes and others seeking to optimize their performance.

The construction of the CeramicSpeed bearings is state of the art. The CeramicSpeed balls have an outstanding quality and super smooth surface compared to both steel balls and other ceramic balls used for bicycles. This gives the bearings extreme impact strength and very low friction.

The balls are kept in place by a reinforced polyamide cage. Balls and cages are matched (within microns) with the finest hardened steel raceways with an ultra-smooth polished groove. To this we add the optimized low-viscosity CeramicSpeed grease and no-contact seals to keep water and dirt away from the balls.

Every single bearing is hand built in Denmark under white room conditions. We inspect each bearing by hand four times during the building process to ensure that all parts are matched perfect.

HARVEST
sportsXwear

OMEGA
PHARMA
QUICK-STEP

"Because we aim to win races, component-performance is paramount. The reason for using CeramicSpeed bearings is two dimensional. Obviously, there is the technological part. On the bike there are many spinning parts and if they have less friction the riders perform better. If you spin a crank with CeramicSpeed bearings you see it keeps spinning longer than a crank with standard bearings. The low friction of CeramicSpeed is next to none. The second dimension is the motivation given to the rider. Riders perform better when they feel confident that they have been provided the best equipment available."

Rolf Aldag

Technical Advisor
Team Omega Pharma - Quick-Step

CERAMICSPEED

CeramicSpeed specializes in manufacturing top performance bearings developed for ambitious cyclists.

Our bearings are hand built in Denmark and offer state of the art quality, technology and performance. CeramicSpeed founder Jacob Csizmadia was the first person to introduce ceramic bearings to professional cycling.

The primary benefit of CeramicSpeed bearings is extremely low rolling resistance. This saves you energy and helps you go faster. Our bearings last longer than standard bearings made with both steel balls and other ceramic balls. CeramicSpeed bearings also have increased stiffness for better power transfer.

CeramicSpeed is distributed to the bicycle aftermarket worldwide as well as to OEM customers. Our bearings are also used in motorsport and other sporting disciplines.

Today, the company includes a division for industrial bearings applications.



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