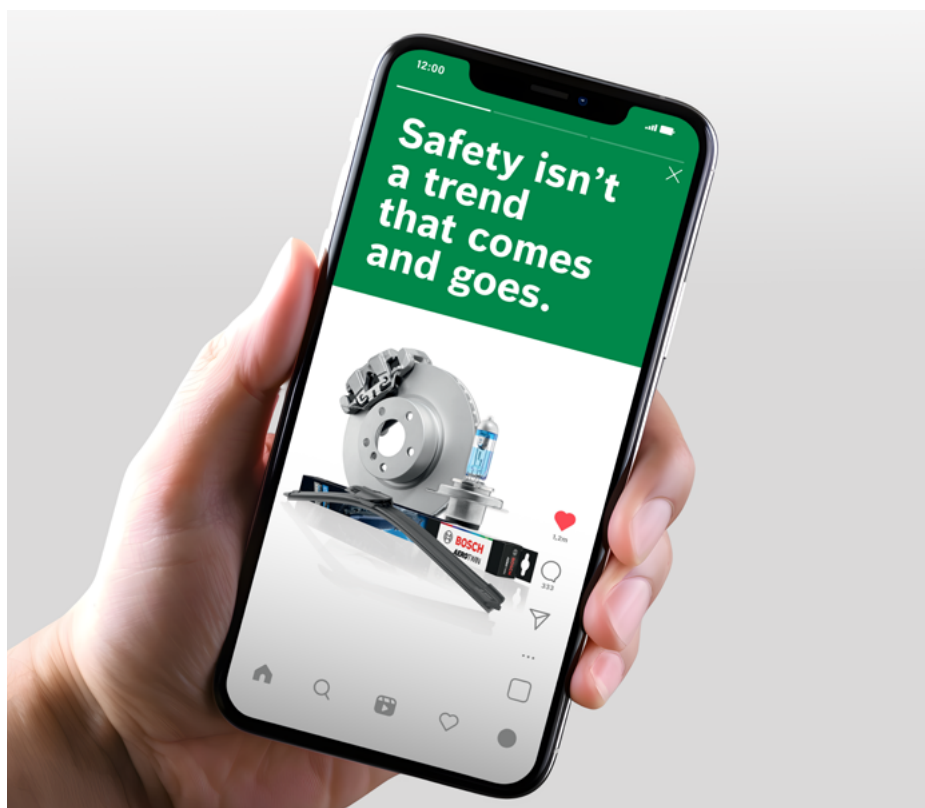


Invented for life



Automotive Insiders: Lighting the way with Bosch bulbs



In a world of 'influencers' – people who use social media to appear as if they're knowledgeable on a certain subject – Bosch are the real deal. We're genuine automotive influencers because our in-depth automotive knowledge has been built over 100 years, our innovations have changed the automotive landscape, and our products and services are trusted by millions of customers around the world today.

In our new Automotive Insider series, we find out more about Bosch's best-known products, by talking to the people behind them. From high-performance wiper blades to bulbs and brakes, our experts lift the bonnet to share how these parts work – their history, how they've

developed over the years, and how they're equipping vehicle mechanics and owners to face the future with confidence.

Today we're talking to Christian Wolf – an expert behind Bosch's award-winning lighting and bulbs.

Firstly, can you tell us about the history of Bosch bulbs?

At Bosch, we've always been at the forefront of lighting technology –

right from when we developed the first electrical lighting system for automotive vehicles in 1913. In 1960, we introduced the high-beam and low-beam headlamps with integrated fog light and asymmetric light distribution, a move that would make driving in difficult conditions much safer. Then, in 1991, we released the first Xenon headlamp system with 2.5 times more luminous efficacy than standard halogen headlamps.

Today, our bulb products range from classic front light replacements to more high performance options. Beyond that, our portfolio of bulbs cover almost every part of a modern vehicle – from license plate lights to dashboards lights – and there are over 30 of them!

Sounds impressive! So what's the technology behind today's bulbs?

For such a small product, a Bosch bulb is full of minute yet precise details. There are three different technologies behind our range:



"As influencers we appreciate good lighting. That's why our Plus 200 Gigalight produces 200% more light on the road in comparison to standard halogen bulbs."

1. Halogen

The standard bulb technology, used in vehicles for the last 50 years. As the electric current is passed through the tungsten wire filament, the filament heats up and glows, producing light. Halogen is also the leading bulb technology in the automotive aftermarket, as it's cheapest and easiest to replace.

2. Xenon/HID

A technology with a much higher intensity discharge and brighter output. When an electric current is applied, the highly-pressurized xenon gas within ionizes between the electrodes, creating a 'light bow'. The lower energy consumption (35W as opposed to the 55W required by halogen types), coupled with its more advanced technology, allows it to last 2000 hours or more, at least four times longer than halogen lights.

3. LED

A superior lighting technology, LED produces a much more powerful beam than its halogen counterpart. The electric current passes through a tiny chip, in turn lighting many tiny light sources. LED is the leading technology being developed by vehicle manufacturers for use in their newer vehicles on the road today. LED can also be programmed to change colour/brightness.



Does different bulb options affect the driver's experience?

Absolutely. Drivers may not realise this, but the best bulb for their vehicle depends very much on their individual circumstances. For the regular night drivers, a brighter bulb will improve road visibility on dark journeys, while more frequent travellers may prefer a bulb with a longer lifespan.

This is where Bosch's extensive range comes into its own, with an array of benefits that will fit the driver's criteria. By adapting the precise mechanics inside the bulb, we can flex bulb types to suit different situations. Using a standard bulb – which provides up to 600 hours of light – as our starting point, we develop products with different specialisms. We may modify the Tungsten wire to achieve different results, while the blue ring coating on our Plus range enhances the light colour and whiteness for maximum light performance and reach on the roads. It is worth bearing in mind that by making improvements

to one area, you will have to compromise others. For example, for a longer bulb life we may use more robust materials to create the bulb, which will in turn affect the brightness levels.

And what sort of developments are in the pipeline for Bosch bulbs?

In the automotive aftermarket, the exciting developments of the future are counterbalanced by the fact we regularly deal with older cars. Bosch currently develops a wide range of LED products, which will make it possible to retrofit newer technology in older cars. That's why it's essential to ensure the vehicle's bulbs are not just high quality, but that they work well with a wide range of vehicle ages. As people have their car for longer nowadays, there is more demand for replacement bulbs.

However, as we look to the future, we can see the trend moving more towards LED bulbs, which will in turn become more important in the aftermarket sector in years to come.

Invented for life



BOSCH



Service Spotlight:

The Plus 200 Gigalight

“Our newest innovation is the Plus 200 Gigalight, the most powerful and intensive halogen bulb in our range. Its light beam reaches up to 150 meters on the road, and with the blue ring coating on the bulb, it provides a pure bright white light, emitting a much higher output than standard bulbs.”

Christian Wolf, Product Marketing Manager for bulbs at Bosch.

About our experts:

Christian Wolf

Christian Wolf is the face of Bosch bulbs, with over 20 years' experience in the company under his belt. As the Product Marketing Manager for bulbs, he is the interface between product, comms, quality, packaging design, customer queries and press.



Choose services with influence.

For more information on Bosch brilliantly bright bulbs, please visit us at:
boschaftermarket.com/gb/en