



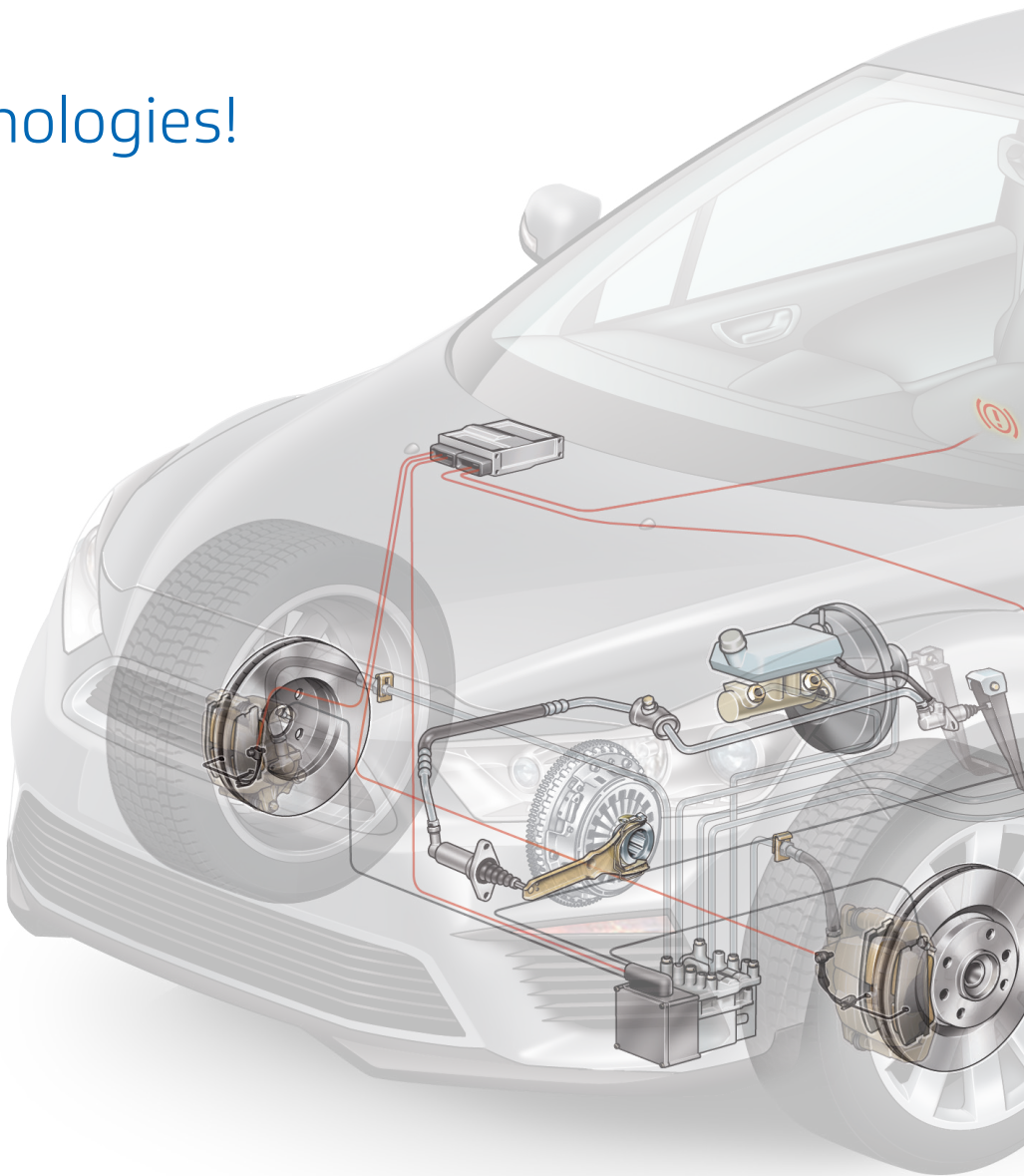
Delphi Technologies

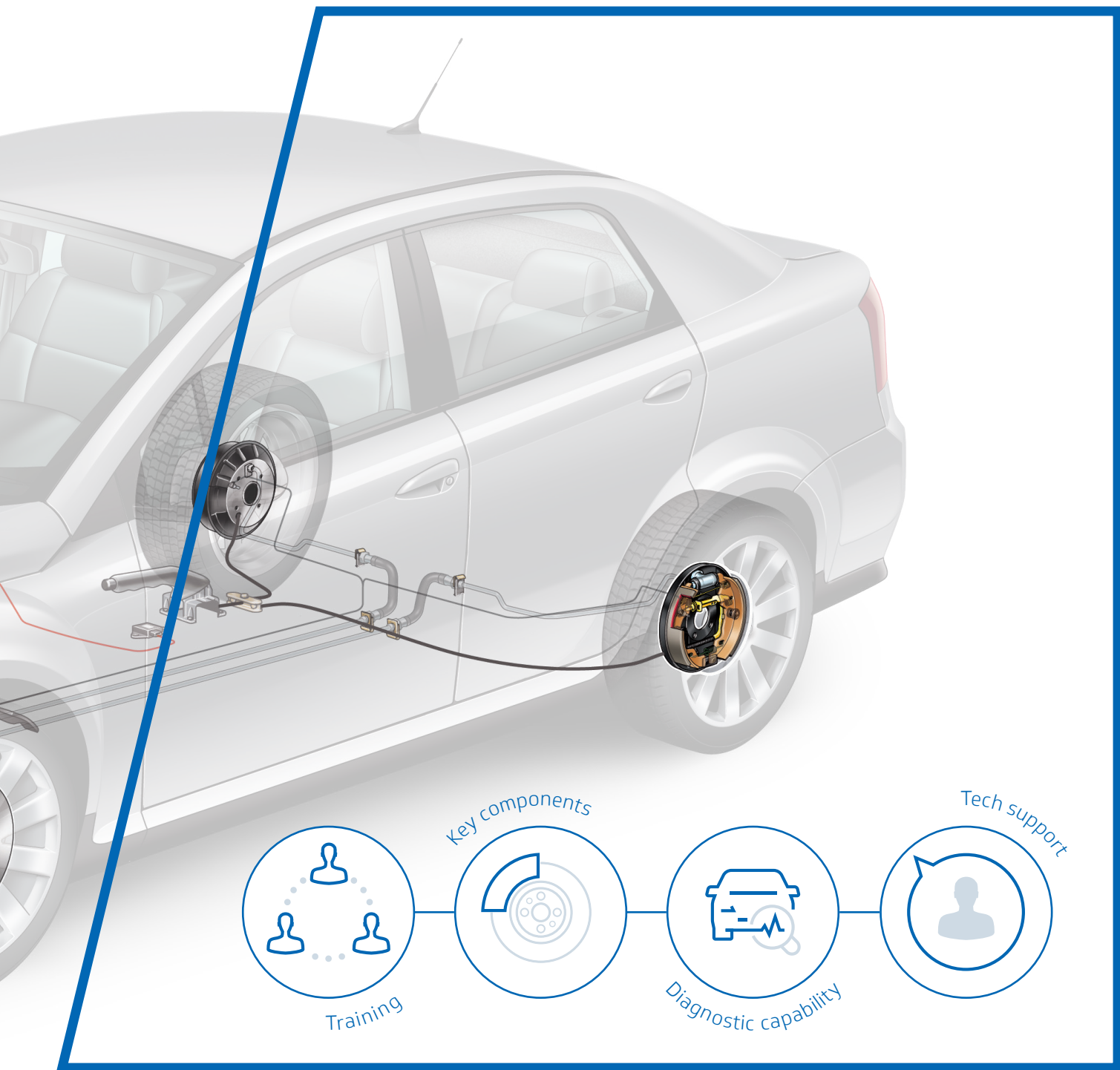
A complete
braking solution

 **BorgWarner**

Stop! with Delphi Technologies!

With increased electronic control, it's no longer a matter of just stopping quickly. Nowadays the how you stop, and even anticipating the need to stop, are just as important. That's why our extensive braking line-up has been designed, engineered and manufactured to mirror the OE. So, not only do we stop just as quick as the OE, sometimes even quicker, we do it quietly and under complete control too. With the backing of advanced diagnostic capability and expert training and technical support, you can count on Delphi Technologies to meet all your braking needs...

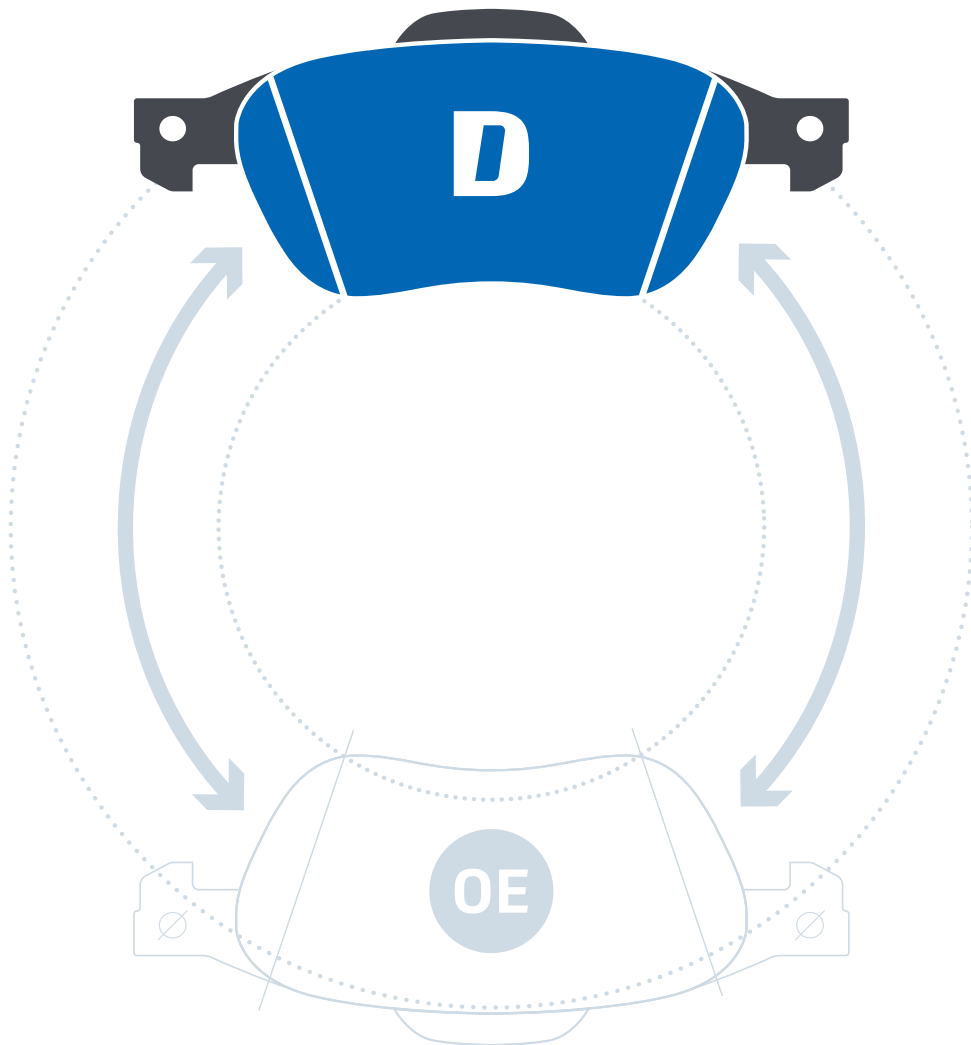




OE quality It's in our DNA

With more than 90 years of OE expertise, dating to the legendary AP Lockheed brand, quality has always been at the forefront of everything we do. And it still is.

Today, our joint venture friction supplier, who manufactures 100 percent of our pads, also supplies OE and OES pads for popular VW, PSA, Renault, Volvo, Opel and Jaguar applications. We apply this same OE expertise to every pad we make. And all our other braking components. So whether they're designed for the vehicle manufacturer's assembly line, dealership or independent garage bay, you can be sure you're fitting true OE quality.



Greener braking



We are just as rigorous when it comes to the environment. Although copper is intrinsically difficult to replace, we've re-engineered our entire friction formula to reduce the amount of copper in our brake pads and shoes to no more than 0.5 percent. Years ahead of the legislation requiring us to do so. Better still, we've achieved all this without compromising on vehicle performance or safety. Similarly, we coat our brake discs in an eco-friendly, water and zinc-flake based silver Geomet solution, protecting both the disc...and the environment.

Five layers of quality



Contributing to a large part of the vehicle's stopping power, brake pads are one of the most important components in the braking system. And is why there's no compromise when it comes to choosing one. As a leading braking manufacturer, our pads are designed, manufactured and tested to look like the OE. To feel like the OE. And to perform like the OE. We call it Delphi Technologies' **"Five Layers of Quality"**... and we build these into every one of our pads.



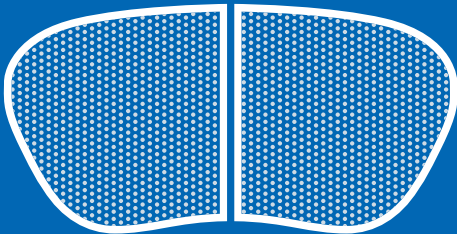
Shims: the finely tuned layers of OE dampening material help to reduce the transmission and amplitude of vibration and provide a thermal barrier for more consistent braking.



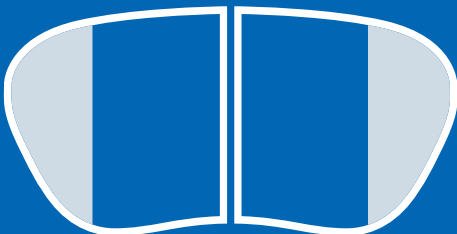
Back plates: the backbone of every pad, our backing plates are manufactured from a high-strength pressed steel and coated in a special powder for improved protection, installation and pressure transmission.



Underlayer: the 3mm layer of OE underlayer technology in all our pads absorbs noise and acts as a thermal insulator, reducing heat transfer to the brake fluid.



Friction material: We use over 130 different friction ingredients to create unique formulations, each designed to ensure the best match of pad to vehicle application.



Friction surface: our OE configured chamfers, help shorten bedding in, and reduce initial squeal, for OE performance from day one. Additional slots allow the pad to flex, preventing stress cracks.

Test results prove it

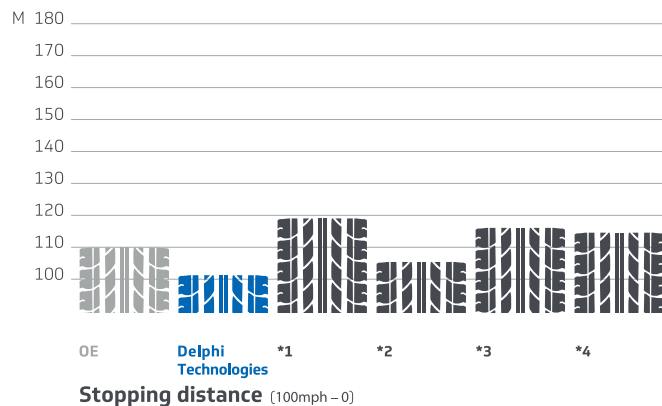
But don't just take our word for it. To prove it, we put our brake pads to the test against the OE and other leading aftermarket competitors on typical family and high performance cars.

The results?

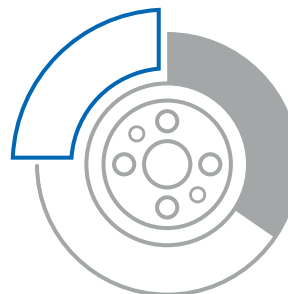
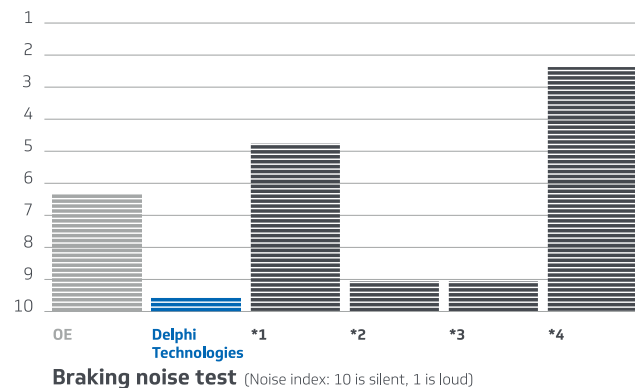
Well they speak for themselves....

On a **VW Passat 2.0 TSI**, a popular family saloon, Delphi Technologies' pads stopped quicker, in several cases by over three full car lengths, braked quieter and lasted longer than the OE and six other leading aftermarket brands.

VW Passat 2.0 TSI



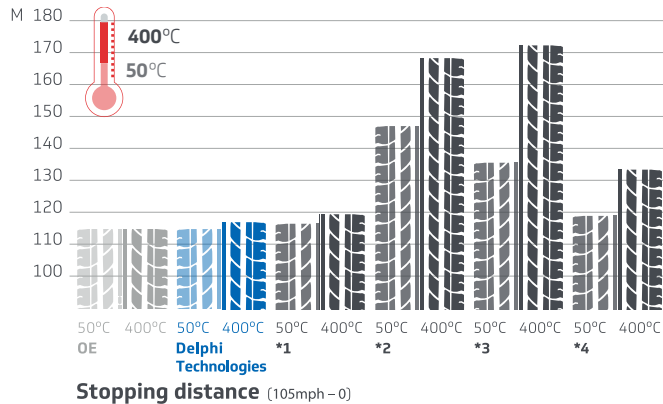
*Competitors



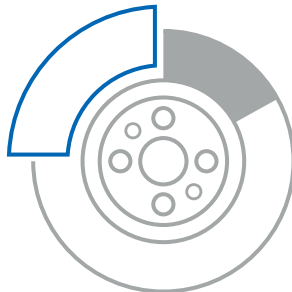
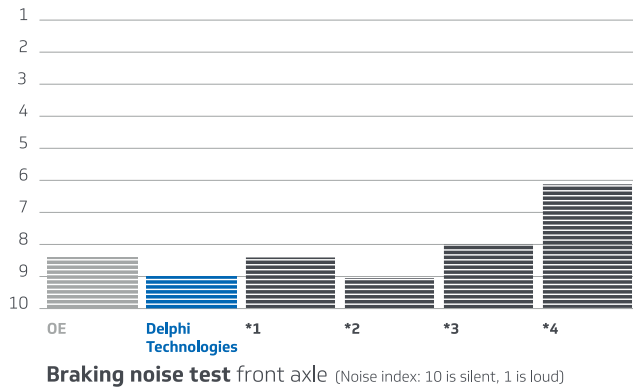
Delphi Technologies' brake pads lasted:

33% longer
than other aftermarket brands

VW Touareg II V6 TDI



*Competitors



Delphi Technologies' brake pads lasted:

17% longer
than other aftermarket brands

But what about the extra demands that come with higher speed braking? Again, not a problem.

On a **VW Touareg II V6 TDI**, a high-end vehicle equipped with the same platform as the Porsche Cayenne and Audi Q7, the Delphi Technologies' pad delivered exceptional stopping power, control and brake fade stability, without compromising on noise or wear. A sure sign that our pads can more than handle the additional heat.

Our own discography

Surface finish:

friction surface machining improves bedding in of pads and reduces initial squeal

Parallelism:

computer controlled machining ensures parallelism

Balance:

tight tolerances for smooth and consistent braking performance

Hole centering:

precision machining ensures correct diameters and location

Heat dissipation groove:

eliminates distortion and reduces heat transfer from disc surface to hat

Hole and rib configurations as per OE:

improves cooling capacity and resistance to thermal distortion, warping and brake fade

High-grade cast iron:

helps eliminate brake noise and uneven pad wear

Advanced metallurgical properties:

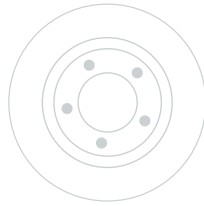
ensures optimal strength, noise, wear and braking characteristics

Anti-corrosion coating:

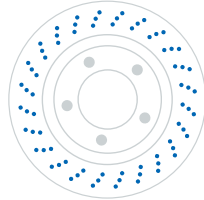
provides greater, longer-lasting protection, enhanced aesthetics and reduced installation times

It's just as important that the brake discs are up to the job. Which is why our engineers consider every possible variable when developing a new disc. The result; a range of different castings and configurations. Each with their own unique performance characteristics. But each designed to both mirror the OE and meet ECE R90 regulations.

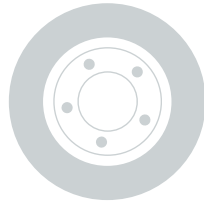
Think of it as Delphi Technologies' own discography.



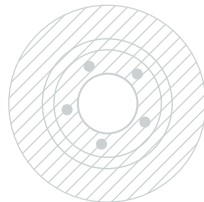
Vented discs: feature special internal cooling passages to maximise airflow, improving cooling capacity and resistance to thermal cracking.



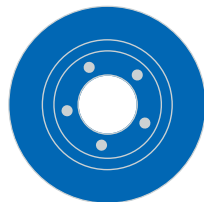
Cross-drilled discs: additional axial holes improve braking response in the wet, and dissipate heat, dust and gases, reducing the risk of thermal distortion, warping and brake fade.



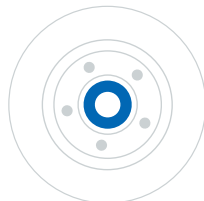
High-carbon discs: the higher carbon and silicon content reduces the risk of thermal cracking under high-temperature loads, distortion and noise.



Coated discs: special zinc-flake, silver coating across the entire surface, offers proven, longer-lasting corrosion protection. With no oil to clean off, they are easier and quicker to fit too.



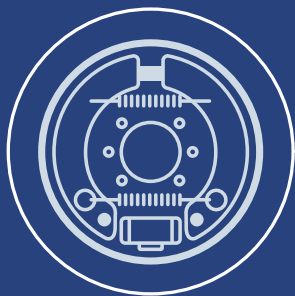
One-piece cast iron discs: deliver the same standards of performance, consistency and longevity as two-piece bi-metallic discs, at a more attractive price.



Discs with bearings: come with safety critical components already pre-mounted for quick and accurate installation.

Covering all your braking needs...

We also offer a full line-up of key system components, all designed to work in complete harmony, for a truly powerful and effective braking system...



Shoes & drums:

Engineered for the perfect fit, our shoes and drums are precision manufactured from the highest quality materials for optimum braking power and stability under load and high temperatures.



Hydraulics:

Our extensive line-up of hoses, wheel, slave and master cylinders is built to the same high quality standards, for reliable, long-lasting performance.



Brake fluid:

Our range of glycol-ether and mineral oil based fluids have been specially formulated for the optimum blend of dry and wet boiling points, maximum and minimum viscosities, chemical stability and Ph balance.



ABS sensors:

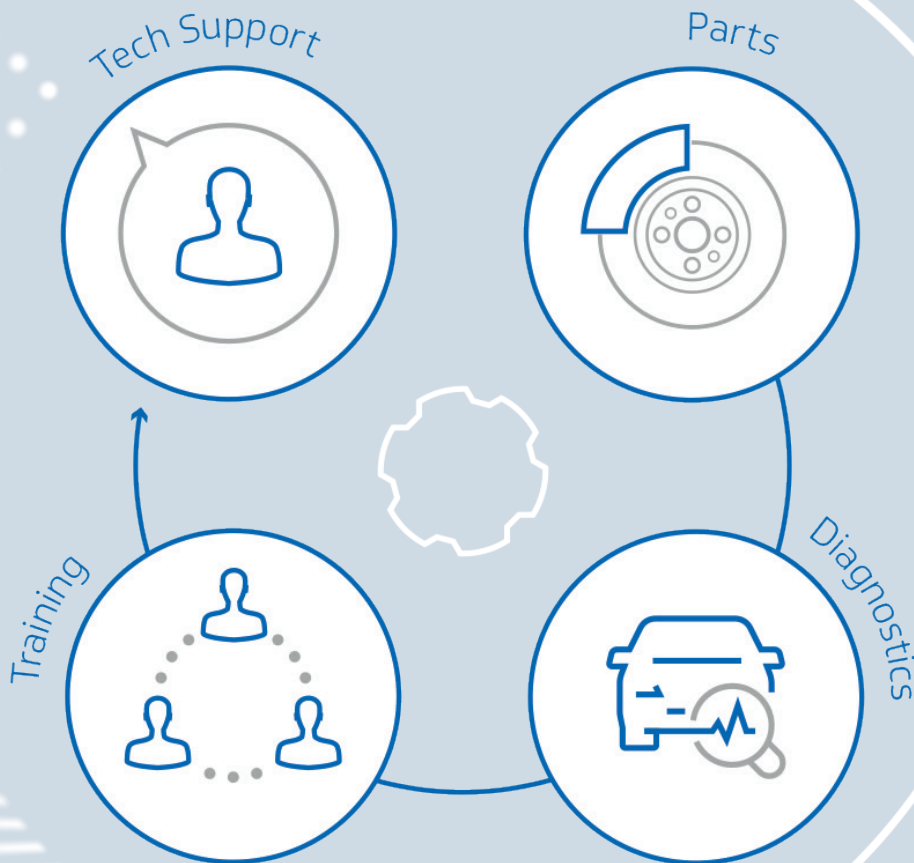
Featuring the latest digital signal technology, our ABS sensors are 100 percent tested pre- and post-production for optimum signal stability and reliability in all conditions.

New look packaging


Starting 2019, our braking range will be supplied in Delphi Technologies' new blue packaging. As well as looking good, the new boxes offer greater protection during transport and storage, whilst optimising space on your shelf too.



The latest know-how



To service today's increasingly complex braking systems, technicians need the right tools and expertise. The good news – with Delphi Technologies you get that too. Our DS diagnostic solution provides advanced diagnostics across an extensive range of makes and models and in-depth maintenance and repair data, via our in-built Vehicle Technical Information software. And if that's not enough, simply attend one of our courses for the very latest hands-on, OE-level training.

A stylized graphic of a gear or wheel, composed of many small, white, curved segments arranged in a circular pattern. It is located on the left side of the page, partially cut off by the edge.

Together, these key elements -
parts, diagnostics, training
and technical information -
can help you provide a complete
braking solution, creating value,
profitability, and loyalty.

So, on your next job, choose
Delphi Technologies. For proven
OE quality performance, you
and your customers can trust!

Delphi Technologies

Delphi Technologies Limited

Brunel Way

Stroudwater Business Park

Stonehouse

Gloucestershire

United Kingdom

GL10 3SX

Find out more at:

delphiaftermarket.com



delphiaftermarket.com



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