

free car mag

SHORTLISTED
FOR NEWSPRESS
MAGAZINE
OF THE YEAR
2016 & 2017

Get The
Look



GREAT ESCAPE

LUKE EVANS & MCQUEEN'S BIKE



Racing electric Jags, plugged in
E-Types, plus the return of TVR and
the latest Ariel Hipercar...



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Mr Glen Townsend, May 17

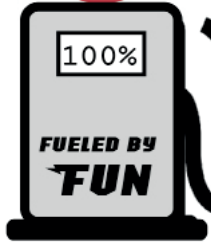
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ISSUE 53 / 2017

his time...

Triumph. Yes we know it isn't a car, but it is an awesome bike and superfan and sometime Hollywood actor, Luke Evans is perched on top of a Bonneville Speedmaster. For us that is a rather wonderful combination. There is a lot to be celebrated when it comes to Triumph which is a great British success story. The revamped visitor centre is a great day out and somewhere we hope to be heading very soon. The mere fact that the restored Bonneville from 'The Great Escape' is there is almost too much for our tiny minds to handle. So that's why we have gone a bit bikey again.

The future, as we predicted in the last issue is all rather exciting. In fact, there was so much future we allowed it to overflow into this issue. Finally you can see how average the TVR photography is and how Manga style the Ariel Hipercar might be. We also found the Jaguar's electric future rather interesting, especially wrapping an E-Type around an electric motor and their plans to take iPaces racing. We are testing Cataclean, see page 36.

Otherwise we get slightly excited about the new Polestar and answer some of your questions. Please keep them coming in as you end up in the pages of the iPaper and online with The Independent, which is something you can show your mum.

With no apology for including more bikes, although if someone wants to start and run a Free Bike Mag by all means get in touch.

● Cover photo Triumph & SEAT



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JAMIE OLIVER'S DREAM KITCHEN-ON-THE-GO

Chef and TV personality Jamie Oliver and Jaguar Land Rover have created the ultimate kitchen on four wheels highlighting the versatility of a Land Rover Discovery. Jamie's bespoke family SUV comes with a host of cooking features including a slow-cooker, barbecue, ice cream maker, olive oil dispenser and will even churn butter as you drive. Jaguar Land Rover's Special Vehicle Operations (SVO) worked with lifelong Land Rover fan and customer, Jamie, to bring his vision to life. The result is truly unique – it's the only Discovery in the world that has a toaster in the centre console and a rotisserie driven by the power take off. Other ingenious features include a slow-cooker that sits beside the engine, a pasta maker, a gas hob and a deployable dining table and worktop. There is even a herb garden and spice rack in the rear windows. Jamie Oliver said: "I gave Land Rover a massive challenge to create the ultimate kitchen on wheels. I dreamt big and asked for a lot, and what they've done has blown my mind. I didn't think they'd actually be able to put a slow-cooker next to the engine and an olive oil dispenser in the boot, but they did. The result is an amazing Discovery, tailored perfectly for me and the family – we love it. This unique creation means we can take our culinary adventures to the next level." The SVO team prides itself on making the impossible happen, so was only too happy to help bring Jamie's ideas to life.





Watch
Jamie's
Food Tube
Channel



WHAT'S FOR DINNER? LAND ROVER'S DISCOVERY IS THE PERFECT RECIPE

With up to 2,500 litres of luggage space and clever storage for 21st century family essentials, the versatile seven-seater Discovery was the perfect vehicle for SVO to modify. With plenty of room for a custom-made aluminium sink, a flat screen TV and deployable kitchen worktop that also doubles as a dining table. Further touches include a spice drawer, a bespoke pestle and mortar and a Land Rover barbecue.

Jamie's three-part-series on his Food Tube channel will detail the build process and show him cooking for his family with the bespoke Discovery.

The first episode goes live at 18.00 GMT on Thursday 5 October WATCH THE EXCELLENT VIDEO HERE:<https://youtu.be/AQAPsswo8GQ>



SPOTTED
OUT AND
ABOUT



FC BAYERN MÜNCHEN AND AUDI

For the squad which includes Thomas Müller, Mats Hummels and Robert Lewandowski, the visit to their long-standing vehicle partner Audi was an event on home soil. The soccer players from Munich are now in their 15th season of driving cars of the premium brand. Hundreds of fans from the region and numerous Audi employees gave the players an enthusiastic welcome. Group photos, selfies and autographs were followed by a plant tour for the team. FC Bayern München and Audi have been forming a team since 2002. Highlights of the partnership include the Audi Cup, which has been held every two years since 2009 as a preparation tournament at Allianz Arena, or the Audi Summer Tour. This summer, the brand accompanied Bayern's training camp in China and Singapore. There the squad played against AC Milan, Inter Milan, FC Chelsea and Arsenal.





4 display cars,
SEAT lifestyle
merchandise
and
'Connectivity
Bar'



Get the look

SEAT & JODIE KIDD IN WESTFIELD

In partnership with Group 1 Automotive, the Barcelona-based brand officially opened its latest store today, with the help of Jodie Kidd, fashion model, TV personality and well-known petrolhead, in the UK's largest shopping and leisure destination, Westfield London. Complementing SEAT's existing UK dealer network, the store will be seeking to tap into the site's significant 27 million annual visitors. Mirroring the scale of its ambitions, SEAT White City is over 50% larger than its sister store in intu Lakeside and boasts five cars on display (including a concourse car), plus, 10 cars available to test drive, including its most popular and latest models, such as New Ibiza, Leon and Ateca.

Jodie

- 1 SEAT Ateca £18,125
- 2 Shirt H & M £19.99
- 3 Jeans JD Williams £40.00
- 4 Shoes Accessorise £29.00
- 5 Watch Pulsar PX5003X1 £155





GREAT ESCAPE

Luke Evans teams up with Triumph riding a Bonneville Speedmaster at the opening of a new visitor centre featuring Steve McQueen's recently restored Triumph Bonneville from the 'Great Escape.'



Hollywood star Luke Evans injected A-list glamour into the gala opening of Triumph Motorcycles' all-new Factory Visitor Experience.

Riding aboard the new Triumph Bonneville Speedmaster in front of a VIP audience in Hinckley, the Welsh actor – known for films like *Fast & Furious*, *The Girl on the Train* and Disney smash hit *Beauty and the Beast* – showed nobody rides a bike like Gaston.

Luke Evans said: "You can't admire motorbikes, as I have for years, and not have a love for Triumph. When I got invited to come along and ride the new Bonneville Speedmaster I couldn't wait – I'm just hoping they might let me take one home!"

The Welsh star featured alongside the legendary Triumph used by Hollywood icon Steve McQueen in the classic movie, *The Great Escape*. The Triumph TR6R has been lovingly restored after years spent herding cows and being stored in a barn.

McQueen's 650cc bike will take centre stage at Triumph's new Factory Experience, where visitors will also be able to see the Triumph Speed Triple ridden by Tom Cruise in *Mission Impossible 2* as well as a host of other milestone bikes from the brand's history.



HEAVENLY

Triumph call it a visitor centre, but it is much more spiritual than that.

Triumph Motorcycles has opened the doors to an immersive new Visitor Centre that will allow fans to go behind-the-scenes and journey through a 115 years of motorcycling excellence.

Based at the brand's headquarters and UK manufacturing facilities in Hinckley, Leicestershire it is set to open on 1 November. The Triumph Factory Experience is free to visit and will showcase an exclusive collection of never-before-seen exhibits centred around the design, engineering and manufacture of Triumph's most iconic models.

Among the most exciting exhibits will be the most famous movie Triumph of all time – the Triumph Bonneville on which Steve McQueen attempted

to jump the border fence in The Great Escape, which has been lovingly restored to working order.

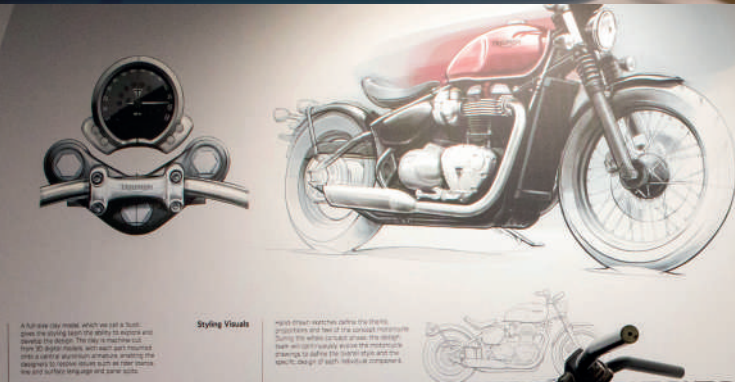
Elsewhere, the two-wheeled stars from road, track and screen include the very first Triumph No1 from 1902, the Speed Triple ridden by Tom Cruise in Mission Impossible 2 and the latest race engine prototype for the 2019 Moto2tm championship.

Visitors will be able to book a guided tour of the Hinckley factory, which is at the heart of motorcycle manufacturing in the UK and is the spiritual home of Triumph. This extensive behind the scenes tour of the engineering and manufacturing facilities will give an unprecedented insight into Triumph's unique and leading approach to designing and building motorcycles.

Spread across eight distinctly-themed areas that combine to create a full Triumph experience, from celebrating the shared attitude of riders and fans, to the incredible bloodline of bikes, racing and popular culture, to the global network our riders represent and the full story of design from sketch to final assembly - the Visitor Experience represents the home of the brand – built by riders, for riders.

The Triumph Shop is also on-hand for those looking to mark their visit with a unique range of high-quality branded merchandise.

www.triumphmotorcycles.co.uk/visitor-experience.



CONCEPT DESIGN

This is where we begin to fully engage the expertise and experience of our engineering teams. We develop the initial CAD layout, including engine, chassis and electronic systems, and create first styling drawings and clay modeling.

Engine and gearbox performance, including power and torque predictions, is assessed by computer simulation (or engine prototype testing). During this period, we often seek the thoughts of the people who matter most in any product development: the Customer.

ADMISSION TO THE VISITOR CENTRE IS FREE OF CHARGE. WHILE THE 90-MINUTE FACTORY TOUR CAN BE BOOKED ONLINE IN ADVANCE FOR £15 PER PERSON.



In the Future



0 - 60 2.4 SECS



HIPERCAR or High Performance Carbon Reduction, the project is destined for full release in 2019 and Ariel production in 2020 alongside the Atom, Nomad and Ace. As with other Ariel vehicles the focus of HIPERCAR is on extreme performance, agility and usability, now coupled with zero and ultra-low emissions. To be available in four wheel drive and two wheel drive variants HIPERCAR will offer staggering performance utilising cutting edge, UK developed technology and will be built in Somerset, England by Ariel.

Initially unveiled as a rolling chassis

with all componentry visible, Simon Saunders, Director of Ariel, said, 'We're not unveiling final bodywork at this stage and it's unusual for a car manufacturer to do things this way round. What you usually get is an exterior concept with some vague promises about what is happening underneath and how wonderful it's going to be. But, as ever, we're different at Ariel and the core of HIPERCAR is the technology, the design and the engineering so that's what we are showing. This is an important part of Ariel's future so it has to be right.'

The thing is Free Car Mag love this

fantastic almost graphic novel style rendering which looks amazing.

The vehicle showcases what the UK can achieve in the highly competitive and fast changing automotive sector with all key HIPERCAR components - motor, gearbox, battery, power electronics, range extender, chassis, driveline and mechanical components - developed by British companies. "Developing another of the fastest cars in the world is important for Ariel," said Saunders, "but anchoring the technology in this country and building a British supply chain is vital for the economy."



HIPERCAR is a Series Hybrid EV (Electric Vehicle) featuring a 750 Volt, 42 kWh or 56kWh, lithium-ion, cooled and heated battery pack which is charged, when required, by a 35kW micro-turbine range extender, negating any range anxiety issues and making the vehicle independent of any charging infrastructure.

HIPERCAR will be available as a 4 wheel drive or 2 wheel rear drive, full bodied car, the final exterior design of which is to be released at a later date. Based around an aluminium folded and bonded

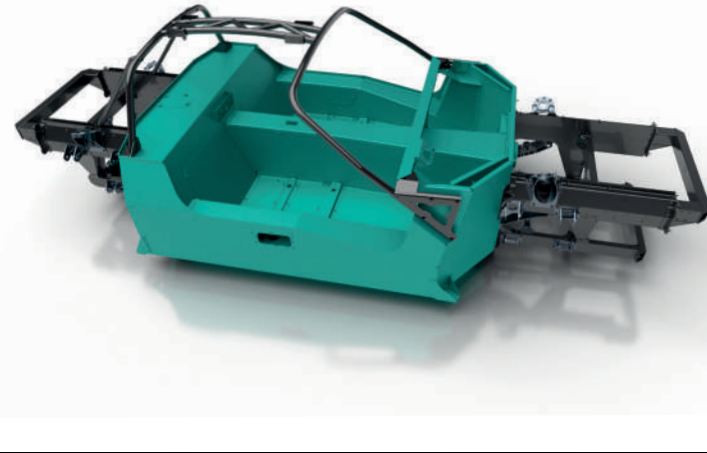
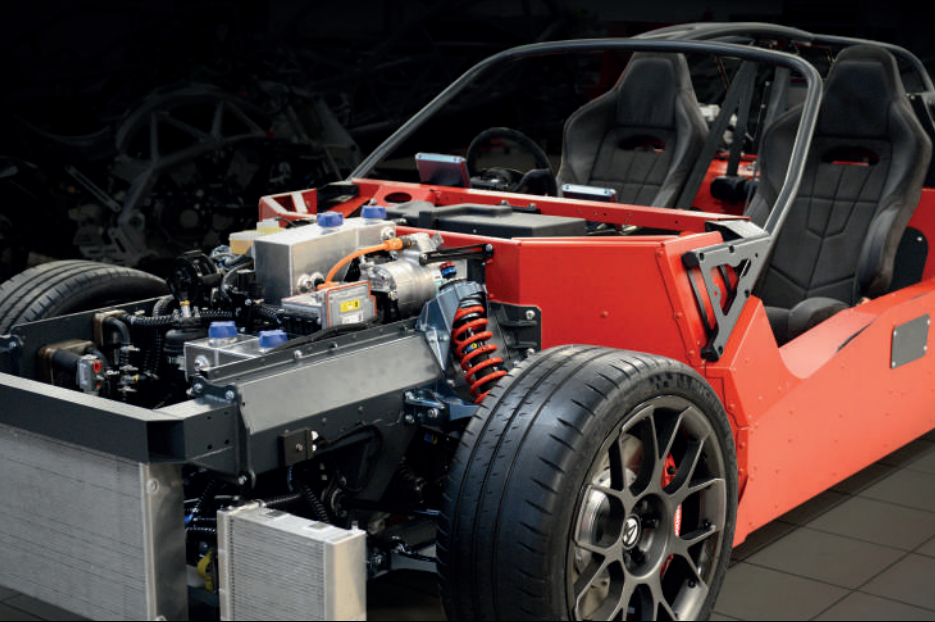
lightweight chassis with full rollover protection, the structure features aluminium front and rear subframes carrying aluminium wishbones and outboard adjustable suspension. Forged or carbon composite wheels carry 265/35/20 front and 325/30/21 rear tyres.

A complete motor, gearbox and inverter assembly weighs only 57 kilos, contributing to the lightweighting throughout the vehicle.

The vehicle's electrical architecture consists of high and low voltage systems linked by multiple CAN networks enabling the Powertrain Controller,

Vehicle Dynamic Control Interface and Battery Controller to communicate and interact with 12V and safety systems.

Pricing will not be finalised until later in the project. Simon Saunders said, "Like other Ariels we want HIPERCAR to represent excellent value for money for the remarkable performance on offer. It will be an expensive car because of the technology involved but when compared to £1m+ supercars, which it will outperform, it's going to represent excellent value for money. This is the first true electric supercar that will cross continents, drive to town and lap a race track".



THE FULL ARIEL HIPERCAR STATS

0 - 60 mph	2.4 secs
0 - 100 mph	3.8 secs
0 - 150 mph	7.8 secs
Top speed	160 mph

In the Future

PRODUCTION:
LATE 2018
PRICE FROM:
£90,000



TVR Returns





Forget about an electric this and flying that, the fantastic thing to look forward to in the very near future is the return of TVR. We can hardly contain our excitement.

Embodying TVR's long-standing ethos of the Sprit of Driving – the principle of delivering an involving driving interface where the driver will always be fully in control – the new Griffith uses intelligent engineering over electronic driver aids. Only the second front-engined production car to feature a flat floor, the new TVR Griffith boasts a full ground-effect aerodynamic package to ensure that the car remains stable at high speeds and delivers exceptional handling abilities. Employing Gordon Murray Design's innovative iStream architecture with carbon composite structure and body panels, the new TVR Griffith weighs just 1250kg, offers exceptional torsional rigidity and a perfect 50:50 weight distribution.

Powering the new TVR Griffith is a naturally aspirated 5.0-litre Cosworth-enhanced V8, which enables 400bhp/tonne and is mated to a six-speed manual gearbox. The new TVR Griffith achieves a top speed of more than 200mph, and accelerates from 0-60mph in less than four seconds.

The TVR Griffith Launch Edition will be fitted with bespoke Launch Edition wheels measuring 19 inches in diameter at the front and 20 inches at the rear. All Launch Edition models will have a full leather interior offered in a number of bespoke colours.

Roll on 2018.



In the Future



electric e-types





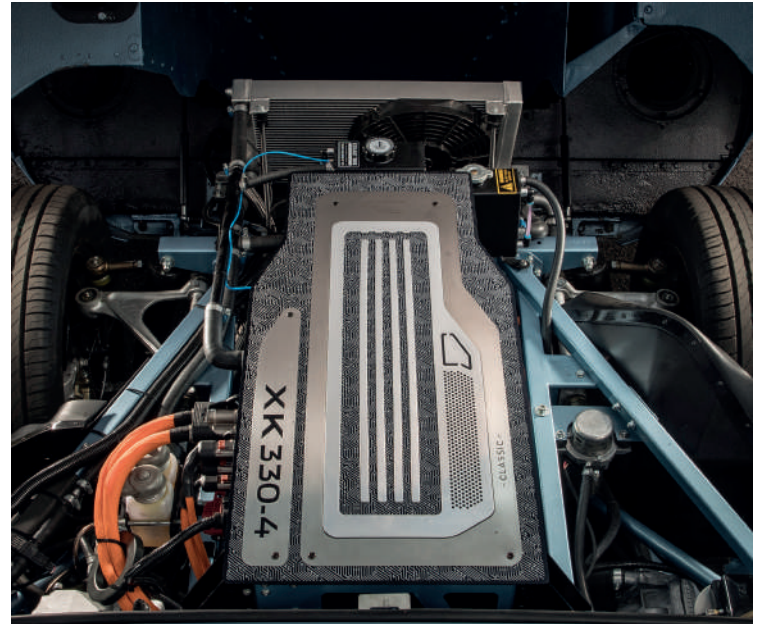
The Jaguar E-type Zero not only drives and looks like an E-type, it also offers outstanding performance. It's quicker than an original E-type: 0-100km/h (62mph) takes only 5.5 sec, about one second quicker than a Series 1 E-type.

An electric powertrain developing 220kW has been specially designed for the E-type Zero. Its lithium-ion battery pack has the same dimensions, and similar weight, to the XK six-cylinder engine used in the original E-type. The experts responsible for developing the electric powertrain have ensured it will be placed in precisely the same location as the XK engine. The electric motor (and reduction gear) lies just behind the battery pack, in the same location as the E-type's gearbox. A new propshaft sends power to a carry-over differential and final drive. Total weight is 46kg lower than the original E-type.

Using an electric powertrain with similar weight and dimensions to the outgoing petrol engine and transmission means the car's structure, including suspension and brakes, has not changed, simplifying the conversion and homologation. It drives, handles, rides and brakes like an original E-type. Front-rear weight distribution is unchanged.

E-type Zero's unique electric powertrain was developed by an electric powertrain specialist in conjunction with Jaguar Land Rover engineers and to a specific brief from Jaguar Land Rover Classic. It uses some technology and components borrowed from the upcoming I-PACE, Jaguar Land Rover's first production all-electric vehicle.

The E-type Zero has a 'real world' range of 270km (about 170 miles), helped by the low weight and good aerodynamics. It uses a 40kWh battery, which can be recharged from home overnight (typically in six to seven hours, depending on power source).



In the Future

electric racing jags





Jaguar has created the world's first production battery electric vehicle race series. The Jaguar I-PACE eTROPHY will be the support series for the FIA Formula E championship.

The groundbreaking championship will support the launch of the Jaguar I-PACE – Jaguar's highly innovative five-seat battery electric sports car which will also hit the road in 2018.

Up to 20 electric I-PACE racecars will be on the grid in the centre of 10 races in global cities such as Hong Kong, Paris, Sao Paolo and New York, giving future Formula E stars the chance to race in the world-first series.

Jaguar Land Rover Special Vehicle Operations (SVO) in Warwickshire, UK, will build the racecars. They will be based on Jaguar's first battery electric vehicle, the I-PACE performance SUV.

The thing is, if you have enough spare cash, you could take part in these races. Jaguar Racing is offering a complete 'Arrive and Drive' packages in the I-PACE eTROPHY that includes: entry into a 10-race global championship supporting FIA Formula E, Professional technical support from racecar preparation to data engineering, all global logistics for vehicles, spare parts and equipment, tyres and consumables, garaging infrastructure at race weekends, allocated hospitality for entrants with the ability to purchase further places for sponsor guests, championship race wear for each driver.

A typical race weekend will include free practice and qualifying sessions followed by a 30-minute race. Oh yes and you will need a racing licence, but you've got a year to go and get one. Start pestering Jaguar Racing now. Free Car Mag is...





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Duncan McClure Fisher
Founder and CEO

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MOTOREASY LAUNCHES WORLD'S FIRST 'PLUGIN WARRANTY' PRODUCT

MotorEasy has moved into the 'connected car' market with the launch of a new, world-first warranty product that includes a plugin car diagnostics tool to offer drivers an ongoing 'health monitor' for their cars.

The fitC plugin device connects directly to the engine's ECU via the On-Board Diagnostics (OBD) port to provide instant diagnostic data, previously inaccessible to drivers without paying for a diagnostic service at a garage, directly to the user's smart phone.

The product's early warning system means that potential faults can be identified before the vehicle breaks down, potentially saving motorists' time and money.

After a fault is detected, it is flagged in the connected app and fitC connects drivers to convenient, trusted repair centres via the MotorEasy service desk.

The introduction of fitC heralds a new

era of vehicle repair and maintenance in which vehicle owners have vastly more information at their fingertips. A vehicle's health can be monitored continually and issues can be identified before they cause costly damage.

Innovative car ownership and maintenance start-up, MotorEasy, has a nationwide network of 10,000 garages, to which customers can be connected via the fitC app.

The company's concierge-like service can arrange for any work required to be carried out at a conveniently local workshop or customers can arrange for their car to be picked up from their home or workplace and returned after repairs.

From the first day of purchasing the fitC product, drivers will be covered by MotorEasy's leading warranty scheme, which includes a free health check and complete wear and tear protection.

HI-TECH MOTOR QUOTES

"With hybrids and other new technology, the automobile has changed more from 1986 until now than it did from 1900 to 1986. It's funny when kids come over to my garage and I take out a box of Weber carburetor needles and they go, 'What's that?' Then they take out a laptop and plug it in, and they're actually tuning the fuel-injection system and ignition."

Jay Leno

"Technology is a word that describes something that doesn't work yet."

Douglas Adams

"Deep in production hell."

Elon Musk suggests that all is not going well with the Model 3

"They don't drive like people. They drive like robots. They're odd and that's why they get hit"

Self driving cars are causing real drivers to become impatient and become road raging maniacs, 13 self driving cars rear ended in California



Have your say  @freecarmag1

TOP 5 USED HIGH TECHS

All the bells and whistles was a phrase often used to describe a car with every conceivable extra fitted to it. Usually the model in question will be a luxury saloon which is rather expensive when new, but because of all that complication can be something of a bargain a few years later. So which cars are the bargain barges?



BMW 7 SERIES

One of the best driving luxury saloons which handles like an M3, well sort of. This is a really old one pictured, but the next generation did not look that much different. Very complex cars which when they go wrong should be abandoned. The iDrive system is the most visual clue that this is no ordinary car, it is essentially a big, stupid button.



MERCEDES S-CLASS

The best luxury car in the world has long been the S-Class, especially if you are going to ride in the back. It has tech like multi-link Airmatic air suspension which can be fitted with a road-sensing system that pre-loads the shock absorbers for the road surface detected. Something that you don't want going wrong.



AUDI A8

The most interesting option was the 4.0 litre V8 turbodiesel which manages a creditable 30mpg overall combined with muscular performance. Inside there is masses of room whilst engine and road noise are kept to the bare minimum. Hooked up to the Quattro all wheel drive system it won't easily fall off the road.



LEXUS LS

There are times when the only indication that the engine is running will be the rev counter, it is that quiet. On any journey both drivers and passengers are pampered by a brilliantly smooth ride soaking up even the most uneven road surface with ease. Whether you are in the front or rear the experience is certainly sublime. Super reliable.



HONDA LEGEND

This is just a great big Accord. At best it is Lexus lite, but at least there is a genuine rarity factor and rightly so probably. In size it's as long as 7 series, but it utterly lacks any semblance of prestige. Great if you are starting an upmarket minicab business, but a little depressing if you thought you were buying something to make you feel special. Reliable.

For more used car information and buying tips go to freecarmag.com



ASTON MARTIN & HACKETT COLLECTION

The collection takes inspiration from renowned quality and performance of both luxury brands offering the customer an elevated sports performance collection. Comprised of a nineteen piece collection, the Aston Martin by Hackett range is made up of outerwear, blazers, shirts, trousers and accessories. In classically masculine shades of navy, brown and grey, the colour palate is contemporary and elegantly holds a place in every gentleman's wardrobe.

Core to the collection are the lustrous Leather Jackets becoming the must have item of the range. This season, the design has been reimagined and are available in two new colourways; a classic hazelnut nut brown made from deerskin as well as a luxe matt black option, developed with neoprene panels on the shoulders, sides and hem expertly crafted for comfort and flexibility.

With exquisite attention to detail and craft, the Autumn Winter product range includes a new Laser Cut Blazer with a zip out quilted gilet which has been expertly constructed with no-sew technology and bonded seams making the item reliably waterproof and functional whilst not compromising on design.

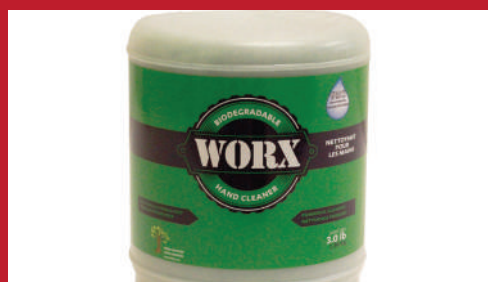


TW Steel

Dutch by design, big in attitude and peerless in class, they've carved a new timeline in the watch market since their arrival in 2005. www.twsteeluk.com.

Get ready to go from A to Bold. For all those that love cars and the world of motorsports, comes the timepiece that says it all. The brand-new Volante Collection takes the classic TW Steel attitude and puts it on the open road. Grab your keys, jump in the car and drive boldly.

These timepieces come in 45mm and 48mm sizes and sport a premium textile wristband in four colour variants. There's 22 different executions to choose from so pick your style and hit the road. From £189.



WORX HAND CLEANER £9.00

The All Natural Hand Cleaner, a heavy-duty formulation that is totally biodegradable, comes as an economical dry powder for effective removal of grease and in-grained dirt in normal wet washing. It will not freeze, it will not separate under hot weather conditions, has years of shelf life and does not require any special transport considerations.

www.damar.biz



THE GRAND TOUR GUIDE TO THE WORLD £20

This book is part travel companion, part factually dubious encyclopedia and part scrapbook of a travelling circus, all told through the juvenile, egotistical yet undeniably amusing voices of our three favourite petrolheads - Jeremy Clarkson, Richard Hammond and James May.

www.amazon.com



NEON ICONS AT ASTON MARTIN NO.8 DOVER STREET

'NEON ICONS' is a brand new body of work from Louis Sidoli, famed for his artistic exploration of popular culture, highlighted by his use of aluminium and neon. Every item in his collection is crafted by hand at his studio just five miles from the Aston Martin Headquarters in Gaydon. This will run for three months at Aston Martin's brand experience centre at No.8 Dover Street in London's Mayfair.

www.louis-sidoli.com

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SE Technology model aimed at business buyers

SKODA KODIAQ

The Kodiaq is now a fully connected vehicle with Infotainment Online providing satellite navigation, traffic reports and calendar updates. Drivers can instantly sync contacts from their phone to the car, which can be accessed via steering wheel controls or voice activation for a safer way to make calls on the road.

As an option for fleets regularly undergoing long distances, Adaptive Cruise Control (ACC) can be added to assist the driver in maintaining the selected speed and desired gap between the SKODA Kodiaq and the car in front.

Available with five and seven seats it has 720/630/270 litres of boot space with the rear seats up and 2,065/2,005 litres. The SE Technology model also comes with front and rear parking sensors as standard. Further equipment such as Autonomous Emergency Braking, detecting dangerous situations automatically apply the brakes. A safe business choice then.





Plug-in Hybrid comes to Kia's Crossover

AVAILABLE:
NOW
PRICE FROM:
£27,995



KIA NIRO PHEV

With potential fuel economy of well over 200mpg and CO2 emissions of just 29g/km, the Niro PHEV is the main reason why customers are taking advantage of the £2500 government grant. The PHEV is a stand-alone model in the Niro line-up, based on the mid-range Niro parallel hybrid. Standard features include the latest connectivity and active safety technologies, including Kia Connected Services featuring TomTom, wireless smartphone charging, autonomous emergency braking and lane-keep assist. It also offers Android Auto and Apple CarPlay which, via pre-downloaded apps, link smartphones to navigation, music, hands-free calls and texts and voice recognition services. So well equipped and economical.

Limited Edition Micra sounds great

AVAILABLE:
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PRICE: £18,635



NISSAN MICRA BOSE® PERSONAL®

The unique-to-Micra BOSE Personal audio system delivers an immersive 360° sound experience through BOSE digital signal processing and six high-performance speakers. These include the two pioneering BOSE UltraNearfield™ speakers built into the driver's seat head rest. Sound from the BOSE Personal audio system can be personalised to suit the driver's tastes with the help of the BOSE PersonalSpace Control. Exterior personalisation includes orange finishers fitted to the front and rear bumper, side mouldings, mirrors caps and 17-inch alloys. There are lots of neat orange touches on the inside too...



Star Turn

Polestar unveiled the 600hp Polestar 1, the company's first car, which is set to roll off the production line in mid-2019. What more do you need to know?





The Polestar 1 is a two-door, 2+2 seat Grand Tourer Coupé with an 'Electric Performance Hybrid' drivetrain. An electric car supported by an internal combustion engine, it has a range of 150kms on pure electric power alone - the longest full electric range of any hybrid car on the market. Its output of 600hp and 1000Nm of torque makes it a performance car.

The Polestar 1 is based upon Volvo's Scalable Platform Architecture (SPA) but approximately 50% is new and bespoke, created by Polestar's engineers. Polestar 1 is the world's first car to be fitted with the all-new class-leading Öhlins Continuously Controlled Electronic Suspension (CESi) advanced chassis technology. A carbon fibre body reduces bodyweight and improves torsional stiffness by 45%, as well as lowering the cars' centre of gravity. Additionally, Polestar 1 uses a double electric rear axle which enables torque vectoring. This supports the driver with precise acceleration on each wheel to keep the maximum road grip and maintain speed while cornering.

The Polestar 1 will be built in the state-of-the-art, purpose-built Polestar Production Centre in Chengdu, China. Currently under construction, it is due for completion in mid-2018.

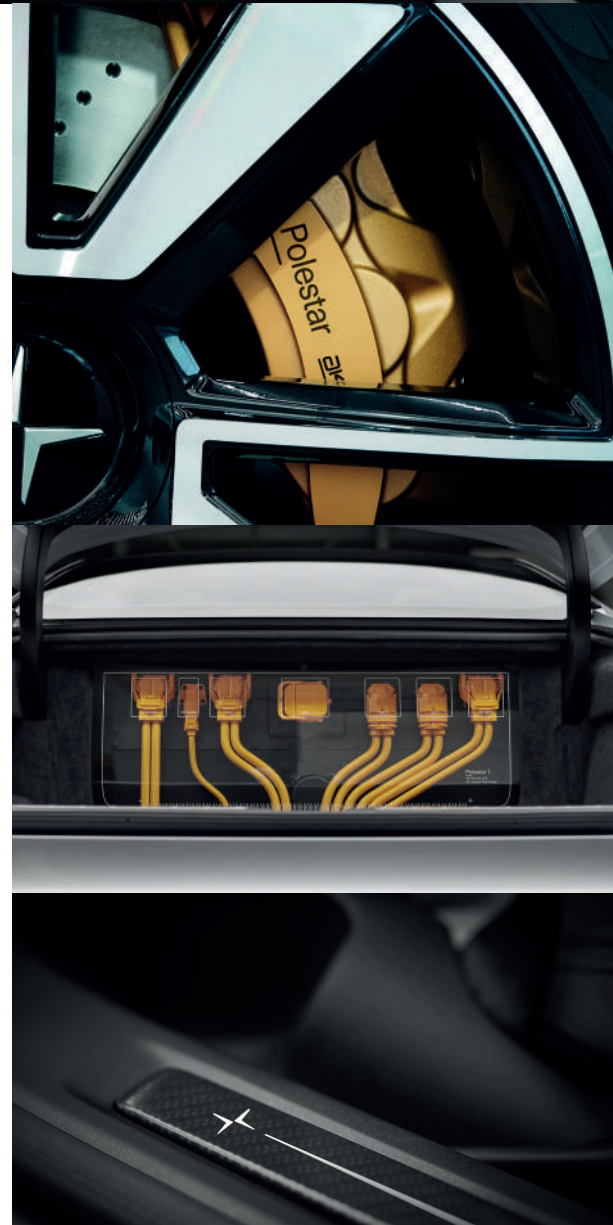
Polestar will also move away from today's traditional ownership model. Cars will be ordered 100% online and offered on a two or three year subscription basis. The zero-deposit, all-inclusive subscription will also add features such as pick-up and delivery servicing and the ability to rent

alternative vehicles within the Volvo and Polestar range, all incorporated into one monthly payment.

The flat rate subscription means that having a Polestar car becomes a hassle free experience for the customer. This is facilitated by Phone-As-Key technology. It allows the owner to share a virtual key with a third party, and also enables access to a host of other on-demand features. This concierge service ensures that the customer only needs to focus on the enjoyment of driving.

All future cars from Polestar will have a fully electric powertrain. Polestar 2 will start production later in 2019 and will be the first battery-electric vehicle (BEV) from the Volvo Car Group. It will be a mid-sized BEV, joining the competition around the Tesla Model 3, and with consequently higher volumes than Polestar 1. The initial phase of the Polestar product roll out will then be completed by the subsequent arrival of a larger SUV-style BEV, the Polestar 3, which will create a modern expression of electric performance and driving dynamics.

The ordering and configuration of Polestar cars will be conducted online via a Polestar app or online portal. However, Polestar also recognises that customers still want to physically engage with the brand so Polestar will open a network of Polestar Spaces around the world. This is where future Polestar customers can interact with products and the brand. Polestar Spaces will be standalone facilities and not within existing Volvo retailer showrooms.



ALT-FUEL OPTION



Damon Cochrane is after an alternative fuel car, but doesn't want to spend more than £6000, so what are his options?



A CAR FOR THE HEAD PROTON GEN-2 Q.6

Liquid petroleum Gas is half the price of petrol and runs on both. I have a lot of time for cleaner burning LPG and the factory modified engines are pretty reliable. I never thought there was a reason to go and buy any Proton which are very dull and cheaply finished. However, the GEN-2 1.6 ecoLogic GSX is worth finding. Especially as they won't cost very much. I saw a 2010 at £999 which had a 140K mileage, but a 30K mile example at £1795 at a dealer might be the much safer purchase.



A CAR FOR THE HEART MITSUBISHI I-MIEV

I found a bioethonal Ford Focus FFV Zetec for £3000, which is now impossible to buy since Morrisons stopped sales of the fuel in 2010. The highest profile alternative fuel is battery power, except that where the power comes from is usually a fossil fuel burning power station, which takes us back to square one. As Damon has PV Solar panels then electricity is being produced by his house during the day, unless stored. Then all he needs is an all electric 9,000 mile 2010 Mitsubishi I-Miev for £6000.

CAR

FREE CAR MAG
CAN ANSWER
YOUR CAR
CHOICE
QUESTION



Dianne Hopkin wants a car she can use in the City, ideally with a parking camera and finished in red paintwork.



A CAR FOR THE HEAD MERCEDES B CLASS

City cars don't have to be small, just classy, well equipped and easy to drive. The Mercedes B Class is an interesting proposition, a premium priced and finished compact people carrier. There is plenty of room inside and excellent levels of equipment. We found a 2014 180 1.5 CDI Auto for £14,000, so easier to drive around town. With 18,000 miles this model includes rear parking camera and heaps of other kit including a full service history.

A CAR FOR THE HEART PEUGEOT 108

I don't see why Dianne should spend so much on a City car, why not go for something a lot smaller. The Peugeot 108 has a three cylinder engine which is incredibly frugal and will return over 60 mpg in the 1.0 guise. It isn't that big inside. The 1.2 engine would be a lot more responsive and we came across a 2014 1.2 VTi Pure Tech Allure with 30,000 miles for just £6,989. It comes with the rear parking camera and lots of other kit, the least of which are the front electric windows.

CLEANING UP OUR POLO

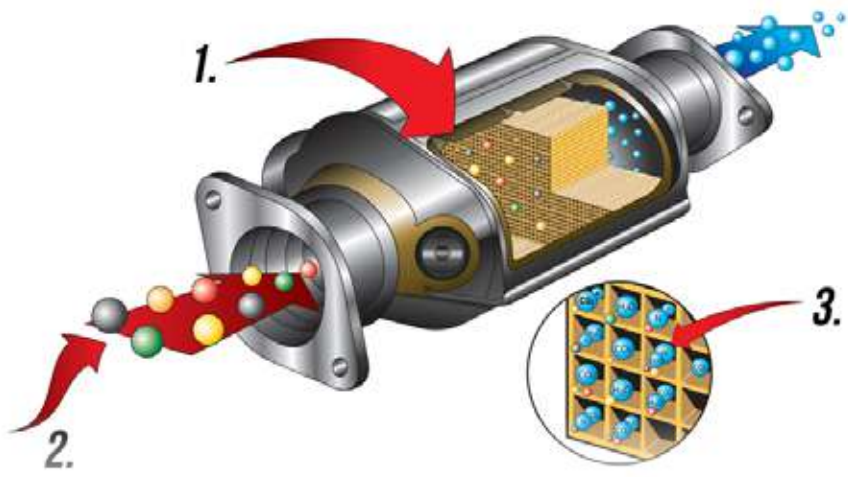
Putting fuel additives in your tank. what's all that about? Well apparently it can help reduce emissions, improves fuel economy maintains and protects the Catalytic converter. That's why we decided to try Cataclean on our 2008 Volkswagen Polo 1.4. Reports soon.

Here is the science behind the product. Cataclean contains solvents that can break down deposits formed by oxidation and polymerization of hydrocarbon in fuel delivery systems. Cataclean also includes acetone which is known to improve the efficiency of fuel combustion. Acetone has

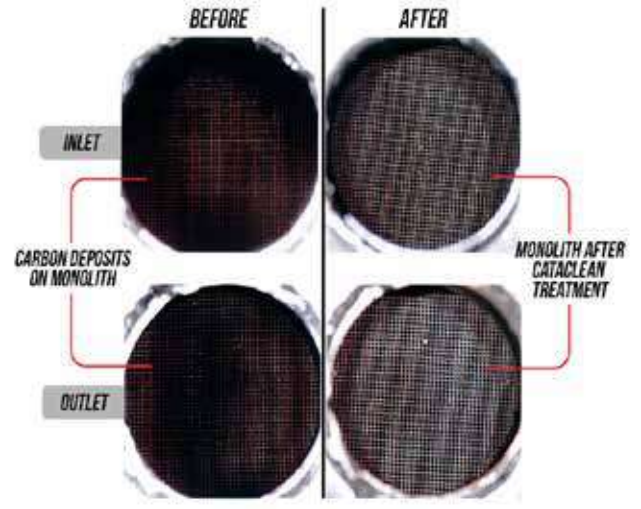
been used in race cars to enhance octane rating and make fuel burn more evenly and completely. When Cataclean combusts, carboxylic acids, aldehydes and active peroxy compounds are formed. These compounds in the exhaust vapours work to clean the surfaces inside the converter. The result

is the removal of deposits from the surface of the core, which increases the catalyst's ability to remove harmful exhaust emissions such as, carbon monoxide & nitrogen oxides. Cataclean does not alter fuel composition. It costs £18.50 and is a recommended top up every 3 months.

HOW CATACLEAN® WORKS ON FOULED CATALYTIC CONVERTER



HOW CATACLEAN® WORKS



Safe to
'Pour and Go'
Every 3 months

SUNDAYS ON
BBC 2 AT 8PM
AND IPLAYER



TERMINATOR TUSSLES

ROBOT WARS

Dara O Briain and Angela Scanlon present the robot fighting competition, with battles commentated by Jonathan Pearce.

In this first explosive episode, a returning roboteer has a taste for victory, an old favourite from the original series tries to prove its doubters wrong and Robot Wars gets presidential with perhaps the world's first satirical fighting robot. The teams are tasked with surviving brutal group battles and nightmarish knockout rounds in order to make it into the heat final. But that is not all - this series, there is a playoff battle for third place, culminating with the second and third place robots battling it out in a massive Ten Robot Rumble for a wildcard spot in the grand final.

The teams this week are Donald Thump, Behemoth, Sabretooth, Apollo, Apocalypse and The Swarm. Along the way, they must dodge arena hazards, menacing house robots and the all new Fog of War.

Free Car Mag was a bit underwhelmed by the new series which did not have the impact, excitement, or Craig Charles for that matter.

Anyway as they say on the show...let battle commence!





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IN CINEMAS
10TH
NOVEMBER

DADDY'S HOME 2

Following the events of the first film, Brad and Dusty (Will Ferrell & Mark Wahlberg) must deal with their intrusive fathers (Mel Gibson & John Lithgow) during the holidays, along with Dusty dealing with his step child's biological father (John Cena). We love Mel and can't wait to see what he gets up to in this follow up. We quite liked the first one in a brainless, silly way, which was clearly the intention.



On CBBC
8.40am
Saturday and
catch up on
BBC iPlayer.

ALI-A'S SUPERCHARGERS

Hosted by Vlogging sensation Ali-A and his motor-mad team of mechanic Rebecca and Sideways Sid, Superchargers is a car-transformation show that puts kids in the driving seat as they give their tired family banger a jaw-dropping new look – all without their parents' input. Drawing on her experience in the motor industry, Rebecca Jackson will be getting her hands dirty to ensure the new pimped-up family motor runs smoothly. It's a great opportunity to teach the kids about what goes on underneath the bonnet of a car and to learn more about the mechanical elements involved. Once the new-look car has passed its MOT, the souped-up motor is revealed to Mum and Dad. But will they like it? "It has been a long time in the making since the announcement of the series, but now I am just really excited that we finally air tomorrow!" says Jackson. "I hope that everyone loves the new show and that it gets kids interested in vehicle mechanics."

FCM 54

Christmas arrives in the next issue. There will be all those watches we promised you last time plus our idea of what a Pantomime should be because there are cars in it, the clue is in the adjacent picture. We can't wait. There should be a boardgame for you to play if everything goes to plan...



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SPENCER HAZE 10

Has his own definition of Supercar, here they are...

THE DEFINITION OF A SUPERCAR IS A TRICKY ONE. SHOULD IT DO 200MPH? THE STYLING SUGGEST IT IS FROM OUTER SPACE? PERSONALLY I THINK IT SHOULD BE SPECIAL, HERE ARE MY REASONS FOR LOVING THESE ...



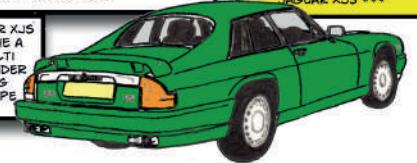
DATSUN Z CARS - THESE BEAUTIES WERE BADGED AS FAIRLADY Z OR ZEBS IN JAPAN AND WERE AVAILABLE IN SOME VERY EXCITING FLAVOURS SUCH AS THE 432 WHICH HAD A 6-CYLINDER 24 VALVE ENGINE ALSO FOUND IN THE SKYLINE GT-R.

TYRES ARE NUTS AND PERSONALLY I LOVE A BIT OF GROOVY WEDGENESS. WITH A TASMIN YOU GET A FAIRLY RELIABLE FORD V6 OR ROVER V8. MAKE SURE THE ROOF IS MISSING.



THE PORSCHE 928 LOOKED LIKE THE FUTURE AND IS ONE OF THE FEW DESERVED WINNERS OF THE EUROPEAN CAR OF THE YEAR. PROPER INTER CONTINENTAL BALLISTIC COUPE MISSILE. MORE SUBTLE IS THE LOTUS ELITE. COLIN CHAPMAN'S FIRST REAL CAR, WITH ACTUAL DOORS, WHICH IS SUPER PRETTY AND HANDLES LIKE A DREAM. FRAGILE OF COURSE, BUT THEN IT IS A LOTUS.

JAGUAR XJS
V12 HE A MULTI
CYLINDER
JAG
COUPE



SPENCER HAZE'S CAR
RATING
DATSUN Z 432 *****
PORSCHE 928 *****
TYE TASMIN ***
LOTUS ELITE ****
JAGUAR XJS ***

FOLLOW SPENCER HAZE'S ADVENTURES AT THE FREE CAR MAG.COM WEBSITE...HE'S FROM 1973 AND SEEMS TO HAVE TIME TRAVELLED TO THE YEAR 2000 BEFORE MAKING IT TO 2017. CONFUSED? WELL THERE ARE CARS, FIGHTS & FUN WITH A RETRO TWIST.



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A car service that improves your swing

At motoreasy, we want to save you time, money and hassle, allowing you to enjoy the better things in your life.

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- ✓ Our expert engineers deal direct with the garage so you don't have to.
- ✓ Rigorous services are carried out to exact manufacturer's specifications.
- ✓ No waiting time, your car is collected and delivered back to you once complete.

Relax - with all of your car hassles taken care of, *what will you do?*

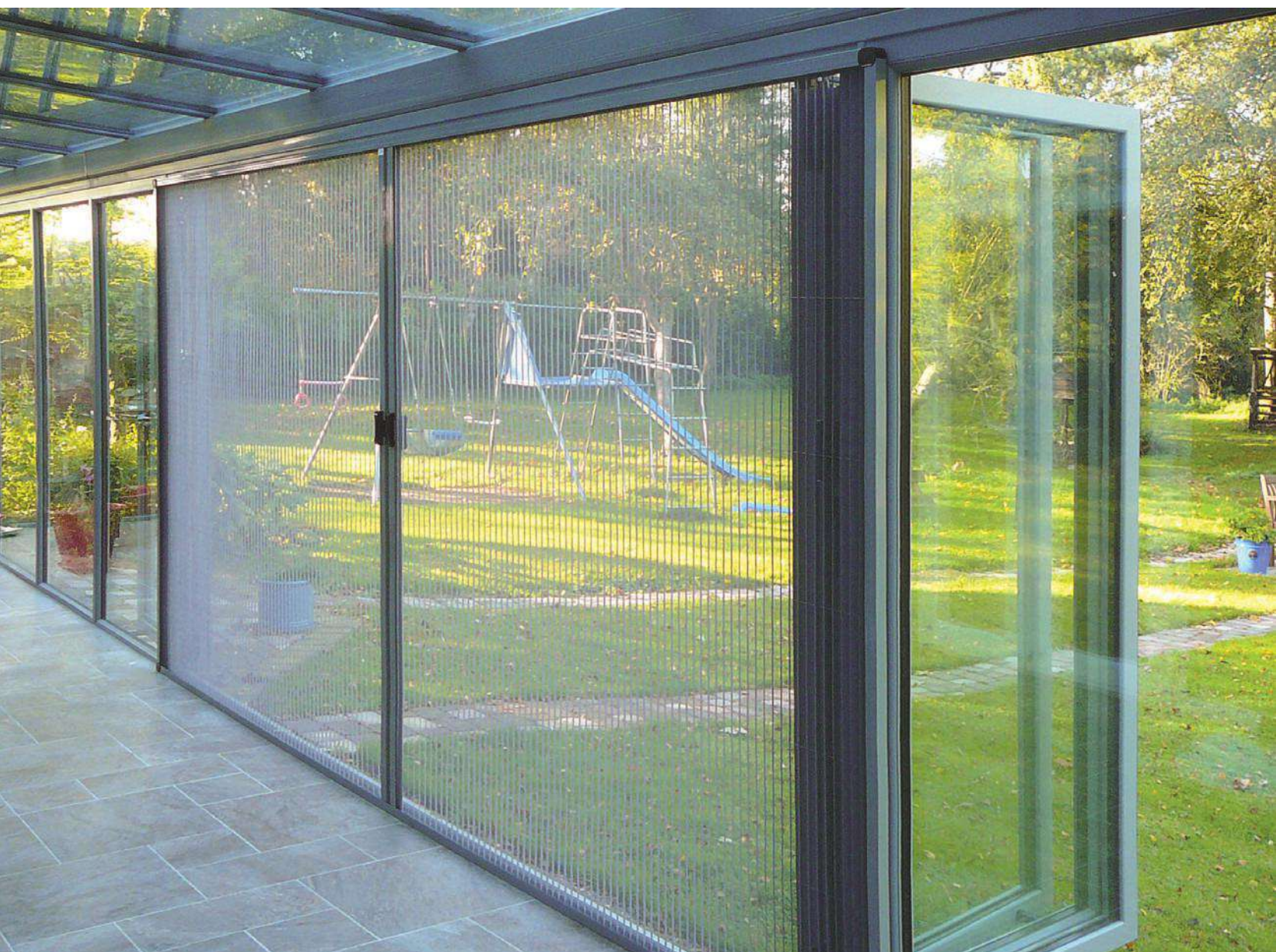
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