

SPECIAL EDITION

24H OF LE MANS



24 Hours of Le Mans in the eyes of Hugues de Chaunac

Founding CEO of ORECA Group, 'The Motorsport Company', and experienced entrepreneur, Hugues de Chaunac has witnessed motorsport evolving over the past four decades and is still totally passionate about it today. **p.3**

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LM P1 to LM P3, ORECA is on all fronts

Involved in all LMP classes, the French company based in Le Var has a prominent presence in Le Mans this edition, thanks to strong experience acquired over the years. **p.7**

Rebellion R-13: offspring of ORECA Technology



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LM P1 Rebellion R13 programme is the new challenge taken on by ORECA Technology in 2018. **p.4**


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24 Hours of Le Mans in the eyes of Hugues de Chaunac

Founding CEO of ORECA Group, 'The Motorsport Company', and experienced entrepreneur, Hugues de Chaunac has witnessed motorsport evolving over the past four decades and is still totally passionate about it today. What better subject to talk about this lifelong absolute passion than the 24 Hours of Le Mans?

J.F : The 86th edition of the 24 Hours of Le Mans is fast approaching, are you looking forward to it?

H.DC : "Yes I'm always looking forward to it. But I'd also love to be able to stop time sometimes, because it runs so fast from one year to the next. We always make sure we're best prepared, each edition leaves an indelible mark on the following one. Yet the truth is: no one is ever really ready enough to face Le Mans."

J.F : It's a whole new game this year for ORECA. Alongside LM P2 cars and Toyota's LM P1 programme, ORECA has also built LM P1 cars for Rebellion Racing. How does it feel to see your SMB so involved in Le Mans, in many different ways?

H.DC : "It's a twofold feeling: I'm proud but I'm also worried. Are we going to live up to those challenges?"

ORECA's history is the result of constant audacious decisions. While there were only two of us to start, the company now counts around 240 employees. I'm a naturally bold person; bold and passionate about motorsport. I like taking up challenges. I'm lucky because I won't be working in Le Mans, I'll be an attentive spectator and real connoisseur, fully focused on all three challenges led simultaneously by ORECA. I will also be attentive to the work of our events department which will be managing large-scale projects including activities and VIP hospitality spaces. And finally I will keep an eye on the LM P3 class, as all GMPs are supplied by ORECA Engine. I have full trust in my staff. Yet I'm also aware of how cruel motorsport can be, we experienced it with Toyota in 2016



during this final damn lap. Le Mans will always remain Le Mans."

J.F : The past three years, Le Mans had many tremendously thrilling scenarios in store for you:

- 2015, the ORECA 05 won in LM P2 just a few months after its first shakedown with a Chinese team (KCMG)

- 2016, LM P2 class win for the Alpine A470 and a nightmare story for Toyota

- 2017, Toyota unlucky once again, yet one ORECA 07 took control of the race during several hours and ended up on the overall podium, new LM P2 win.

Are you already stressing about what could happen in 2018?

H.DC : Three wild years... I'm always stressed because I experience the 24 Hours of Le Mans to the fullest. I so

much want to do well that I find it hard to take a step back. In Le Mans, I'm not ORECA's boss anymore but a passionate spectator/player who gets thrills and goosebumps watching the cars."

J.F : Can we say that the 24 Hours of Le Mans is the most important week of the year for ORECA?

H.DC : "I'd say definitely the most stressful week. Many weeks throughout the year are important for the company, but on track, it's kind of our own Champions League final! The game you can't afford to lose. Beyond the race itself, you have to know how to manage the day after Le Mans. For, as legend has it, whether you win or lose, preparation for Le Mans starts the day after the previous year's race!"

J.F : If you had to give one word about Le Mans?

H.DC : "Legendary"

J.F : Not surprising coming from you!

H.DC : "One word is not enough!"

J.F : Let's say three then.

H.DC : «Okay four: Stressful – Passionately – Exhausting – Legendary»

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Rebellion R-13: offspring of ORECA Technology

The LM P1 Rebellion R13 project is the new challenge taken on by ORECA Technology in 2018. Design bureau Director Christophe Guibbal and his team were given six months to have two cars ready to take part in the first round of the World Endurance Championship Super Season. Let's talk about this fast-paced program with a one-of-a-kind engineer...

J.F : After the Rebellion R-One, Rebellion Racing got in touch with ORECA again for their LM P1 program. How was that received by the design bureau?

C.G : "When Rebellion expressed interest in returning to LM P1, we immediately chose to take on the challenge with them. Of course, we were all really enthusiastic. But given the deadlines – we had to design and assemble a car that was to take part in the Prologue early April at the Paul Ricard Circuit – there was no time to waste."

J.F : The Rebellion R13 is very much inspired by the ORECA 07, isn't it?

C.G : "When you buy a new car at a dealership, don't you see similarities with the brand's previous models? We're proud of ORECA's history and all the cars that we've designed so far. With such a short schedule, it would have been suicide not to rely on the studies we'd conducted to develop the highly successful 07. We're lucky to be able to learn and benefit from past experiences, so let's make the most of that. This prototype's 'older sisters' have been successful in terms of both sales and results. So we've tried to extract all positive aspects in each of them in order to create the best car possible, within the timeframe given. For those who are only looking at the visual aspect, the car could remind of the 07. Yet technically speaking, we've done a tremendous job

in optimizing the different parts to achieve the set objectives in terms of weight and mass. There are some parts that we couldn't change and others that we've optimized with different choices of material and designs. 90% of bodywork parts have changed. We've used a different carbon and we also went for titanium which is forbidden in LM P2 technical regulations."

J.F : What was the main criterion that the design bureau followed to make this car?

C.G : "The aspect that has most influenced our choices was time. When you have to design a car in six months you don't make the same decisions as if you had a year to work on it. In terms of engine supplier for instance, we relied on ORECA's long-standing partner Gibson. That was a strategic choice for us to gain efficiency. We know their working process and vice-versa. So that means more efficiency guaranteed in managing the project. They suggested to go for an atmospheric engine, just like for the 07."

J.F : Had you imagined that ORECA's next LM P1 would look like the R13?

C.G : "The R13 is a step but not an end in itself. It's a milestone we had to achieve in order to compete in the 24 Hours of Le Mans this year. My technical vision of things makes me see in the long term, continuing to work

with Rebellion over the next three years to supply them with the best car possible. As Director of the design bureau, my priority is to maintain our standards as manufacturer, knowledge and experience acquired over years of work. Before this LM P1 programme, we already had efficient working processes in place across all our services: design, sales, composite, machining, metrology, assembly... To maintain our standards we have to be smart and to secure new projects without compromising on all of the organisation already in place."

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REBELLION R13's Technical sheet



CHASSIS

- Monocoque: Carbon fibre & Honeycomb
- Length: 4.645 mm
- Width: 1.995 mm
- Height: 1.045 mm
- Front track: 1.560 mm
- Rear track: 1.550 mm
- Wheelbase: 2.905 mm
- Weight: 833 kg

ENGINE

- Gibson GL-458
- Type: Normally aspirated 90 degree V8
- Power output: 665 bhp
- Max. revs: 9.000 RPM
- Lubrication: dry sump / staged oil pump
- Engine electronic control unit: Cosworth

SUSPENSIONS & TIRES

- Suspensions: double wishbones with pushrod
- Adjustable shocks, specifically developed by PKM
- Tyres, according to the teams choice: FRONT: 30-68/R18, REAR: 31-71/R18
- Front rims: 12,5x18
- Rear rims: 13x18

GEARBOX

- Supplier: Xtrac
- Type: Six-speed sequential
- Gear change: paddle shifters/electric selector
- Speeds: 6 + reverse

BRAKES

- Ventilated carbon discs
- Calipers: 6 monobloc

SAFETY EQUIPMENT

- Six-point harness adapted for HANS system
- Safety rubber fuel tank

BODYWORK

- Carbon / Kevlar light lamination

LM P1

	
 #1 REBELLION RACING Jani/Lotterer/Senna	 #3 REBELLION RACING Beche/Laurent/Menezes

LM P2

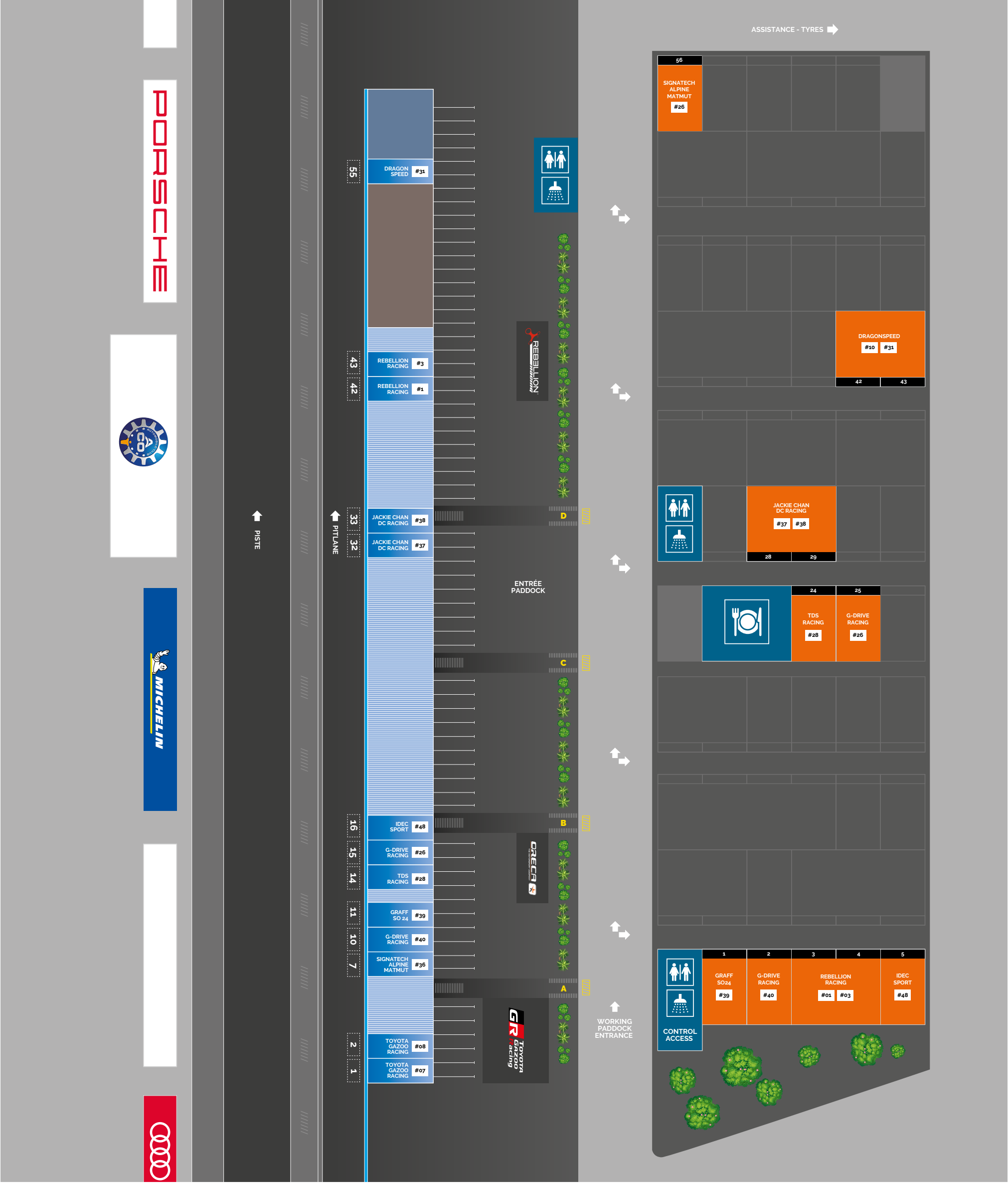
		
 #26 G-DRIVE RACING Rusinov/Vergne/Pizzitola	 #40 G-DRIVE RACING Allen/Guibbert/Gutierrez	 #28 TDS RACING Perrodo/Vaxivière/Duval
		
 #31 DRAGON SPEED Gonzalez/Berthon/Maldonado	 #36 SIGNATECH Lapierre/Negrao/Thiriet	 #37 JACKIE CHAN DC RACING Jafaar/Jefferi/Tan
		
 #38 JACKIE CHAN DC RACING Tung/Aubry/Richelmi	 #39 GRAFF - SO24 Capillaire/Hirschi/Gommendy	 #48 IDEC SPORT RACING Rojas/Chatin/Lafargue

ORECA 07's
Technical sheet



CHASSIS <ul style="list-style-type: none">• Monocoque: Carbon fibre & Honeycomb• Length: 4.745 mm• Width: 1.895 mm• Height: 1.045 mm• Front track: 1.570 mm• Rear track: 1.550 mm• Wheelbase: 3.005 mm• Weight: 930 kg	SUSPENSIONS & TIRES <ul style="list-style-type: none">• Suspensions: double wishbones with pushrod• Adjustable shocks, specifically developed by PKM• Tyres, according to the teams choice: FRONT : 30-68/R18 , REAR : 31-71/R18• Front rims: 12,5x18• Rear rims: 13x18	BRAKES <ul style="list-style-type: none">• Ventilated carbon discs• Calipers: 6 monobloc
ENGINE <ul style="list-style-type: none">• Gibson GK-428 : 4200 cc• Type: Normally aspirated 90 degree V8• Power output: 603 bhp• Max. revs: 9.000 RPM• Lubrication: dry sump / staged oil pump• Engine electronic control unit: Cosworth	GEARBOX <ul style="list-style-type: none">• Supplier: Xtrac• Type: Six-speed sequential• Gear change: steering wheel-mounted paddles / Pneumatic paddle shift system• Speeds: 6 + reverse	SAFETY EQUIPMENT <ul style="list-style-type: none">• Six-point harness adapted for HANS system• Safety rubber fuel tank
		BODYWORK <ul style="list-style-type: none">• Carbon / Kevlar light lamination

Find ORECA's team around the paddock



LM P1 to LM P3, ORECA is on all fronts

Involved in all LMP classes, the French company has a prominent presence in Le Mans this edition, thanks to strong experience acquired over the years. Whether as racing team or manufacturer, all skills and assets will be brought into play at this twice around the clock in La Sarthe.

In LM P1 with Toyota Gazoo Racing

ORECA's racing department has been bringing operational support to factory team Toyota Gazoo Racing in LM P1 since 2012. As part of this collaboration, the Japanese manufacturer is in charge of the hybrid system, TMG is responsible for cars operations while ORECA's staff are fully immersed within the team.

"Originally, when the project started, ORECA's role was to bring endurance experience to Toyota as they'd not been involved in the discipline for a while" says ORECA Group Technical Director and Chief Engineer for Toyota Gazoo Racing David Floury.

"The aim was to guide, support and speed up the process of learning about endurance. Today, ORECA's staff is 100% focused on on-track and race operations. Alongside that, ORECA Events is also in charge of Toyota's hospitality space while our IT service manages the team's entire network infrastructure on site."



© Alexis GOURE

LM P2, always an exciting challenge

This 86th edition of the 24 Hours of Le Mans will be the second time that the ORECA 07 takes to the track in La Sarthe. After a first historically successful entry in 2017, it will be hard to do any better... "It'll be hard to do any better in the overall standings, for sure" says David Floury. "Our ambition is clearly to win in the LM P2 class, for the fourth year back to back. There'll be nine ORECA cars on the starting grid, the goal is to see all of them cross the finish line, as well ranked as possible."

In total, no less than 50 members of staff from ORECA Technology will be involved in this very dense week at the 24 Hours. Yet workshops in Signes will not be completely inactive... "Obviously our workshops in Signes will be rather quiet. But let's not forget all of the people who're working there every day, behind the scenes. They'll be ready and prepared to work around the clock if necessary, in case of a major issue in La Sarthe."

ORECA Magny-Cours, GMP LM P3 supplier

Besides LM P1 and LM P2 categories, ORECA Technology will also be involved in the LM P3 class via its branch based in Magny-Cours and specialised in racing engine preparation.

ORECA is the exclusive engine supplier of LM P3 class in European Le Mans Series and Michelin Le Mans Cup. Its powertrains will be well-represented at the 24 Hours of Le Mans. 42 LM P3 cars, fitted with 5-litre Nissan engine making 450hp, will be on the starting grid of Road To Le Mans. To bring support to this remarkable line-up throughout the week, ORECA Magny-Cours Director Serge

Meyer and his team have created a service together with the Automobile Club de l'Ouest. "4 staff members from our workshops will go to Le Mans with a whole lot of spare parts. They'll be in charge of technical support, monitoring and supplying parts. We can also hire or lend engines to our customers, in case of a major incident."

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ORECA Events at the 24 Hours of Le Mans

ORECA Events will be very much involved in the 24 Hours of Le Mans. In charge of Toyota's VIP hospitality space and pavilion in the Fan Village, but also working for Matmut Group, the events agency, automotive industry specialist, will be on all fronts that week.

According to a survey conducted by the Automobile Club de l'Ouest, 63% of visitors attending the 24 Hours of Le Mans come for the Fan Village itself. With fun and innovative games, a souvenir shop and great food stands, the Fan Village is a hot spot for off-track entertainment, a must-see for all Le Mans-lovers.

For the third year in a row, ORECA Events will play an important role in this village, setting up and running two pavilions.

One 600m² area for Toyota Motorsport Europe will be entirely dedicated to motorsport and entertainment. Pit stop challenges, immersive experiences on board a Toyota TS 050 cockpit, wheel of fortune and simulators will be available all week long, alongside a car show and Toyota Gazoo Racing's official store. ORECA Events will also be in charge of setting up and managing the Japanese manufacturer's VIP area located at the raccordement and expecting around 800 people to visit during the week.



A little bit further in the village, ORECA Events will also prepare the event pavilion of insurance company Matmut, name partner of Team Signatech Alpine Matmut. This 100m² space will host different activities, include a prize draw competition, and feature virtual reality. One Alpine A460 – 2016 LM P2 24 Hours of Le Mans winner – will also be exhibited.

ORECA Events will be in charge of no less than 700m² within the Fan Village to entertain the young and young at heart, while enhancing and prolonging the magic of the 24 Hour!

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What were ORECA's highlights in 2017-2018?

ORECA Racing

ORECA Racing has been ORECA Group's DNA for over 40 years. In 2018, the team renewed its entry in LM P1 alongside Toyota Gazoo Racing. One clear aim this season: to win the 24 Hours of Le Mans and claim the world title!

ORECA Technology

Reputed manufacturer and engine supplier, ORECA Technology has kept developing throughout the years. Early 2018, they designed a new LM P1 prototype, while also working on the homologation and commercialisation of the R4 kit for rally cars.

ORECA Events

Major motorsport events agency, ORECA Events continues to support the most important players of the sector this year. Additionally, the agency has also diversified its activity and worked within new fields including music and cultural industries as well as new technologies.

ORECA Store

Leader in sales of equipment and accessories for drivers and motorsport fans, ORECA Store constantly renews its offer to always remain attractive. Product ranges are appreciated by renowned partner drivers in France and across the world.

S du MANS




Play the “pick 7 things that are different” game




Horoscope

 **ARIES**
(21 march - 20 april)


Competitor at heart, you have planned to break new records. You are a dynamic person, not afraid of climbing increasingly higher peaks.

 **TAURUS**
(21 april - 21 may)

You are persistent and you will do your best to achieve what matters most to you. This week will be a breath of fresh air.

 **GEMINI**
(22 may - 21 june)

Naturally intuitive, Geminis like to play and to surpass themselves every day to live their life to the fullest. Why not make the most of your current rising motivation to launch yourself into something new?

 **CANCER**
(22 june - 22 july)


Sensitive and full of energy, you will have many opportunities to progress in your quest for success this week!

 **LEO**
(23 july - 22 august)

You're not there to play a minor part and this week will prove it! You practice sports on a regular basis; your consistency and determination inspire others.

 **VIRGO**
(23 august - 22 september)


Discrete and benevolent, Virgos like to be surrounded by people and will look after them.

 **LIBRA**
(23 september - 22 october)


Sports is essential for you to stay healthy. However, this week Libra men will rather opt for sofa & beer than run & sweat. Fortunately women will be more sensible!

 **SCORPIO**
(23 october - 22 november)


Hyperactive, Scorpions can't stay still! An eventful week is awaiting them, providing opportunities to take up and rise to many challenges!

 **SAGITTARIUS**
(23 november - 22 décembre)

Sags are said to be open-minded and tolerant. Adventurous, they love to try new things and their infectious good mood often inspires and encourages those around them to follow.

 **CAPRICORN**
(23 décembre - 20 january)

Capricorn-born are tenacious and reasonable people. This week will offer you all the necessary conditions to meet your objectives successfully.

 **AQUARIUS**
(21 january - 19 february)

Aquarius's unfailing determination when it comes to making their dreams a reality will pay off this week, leading them to outstanding achievements. .

 **PISCE**
(20 february - 20 march)

Known to be loyal and generous, this week will have many surprises in store for them.

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