

Product Information

458 CHALLENGE EVOLUZIONE





Attention: Dealership manager

Product Marketing Communication No. 08/2013

Maranello, 05 November 2013

Ferrari 458 Challenge Evoluzione – Product Information

Dear Sirs,

In view of the upcoming marketing and sale of the New Ferrari 458 CHALLENGE EVOLUZIONE, scheduled for January 2014, we are sending you this Product Information document to illustrate the model's main characteristics and technical specifications.

Best regards,
Fabio Menegon

A handwritten signature in black ink, appearing to read "Fabio Menegon".

Sales and Marketing Department
Product Marketing



Ferrari 458 Challenge Evoluzione

Product Information



Developed to race in the 2014 Ferrari Challenge Trofeo Pirelli Championship season, the new 458 Challenge Evoluzione is testament to Ferrari's commitment to on-going "Evolution" in its single-marque championship as well in its other activities.

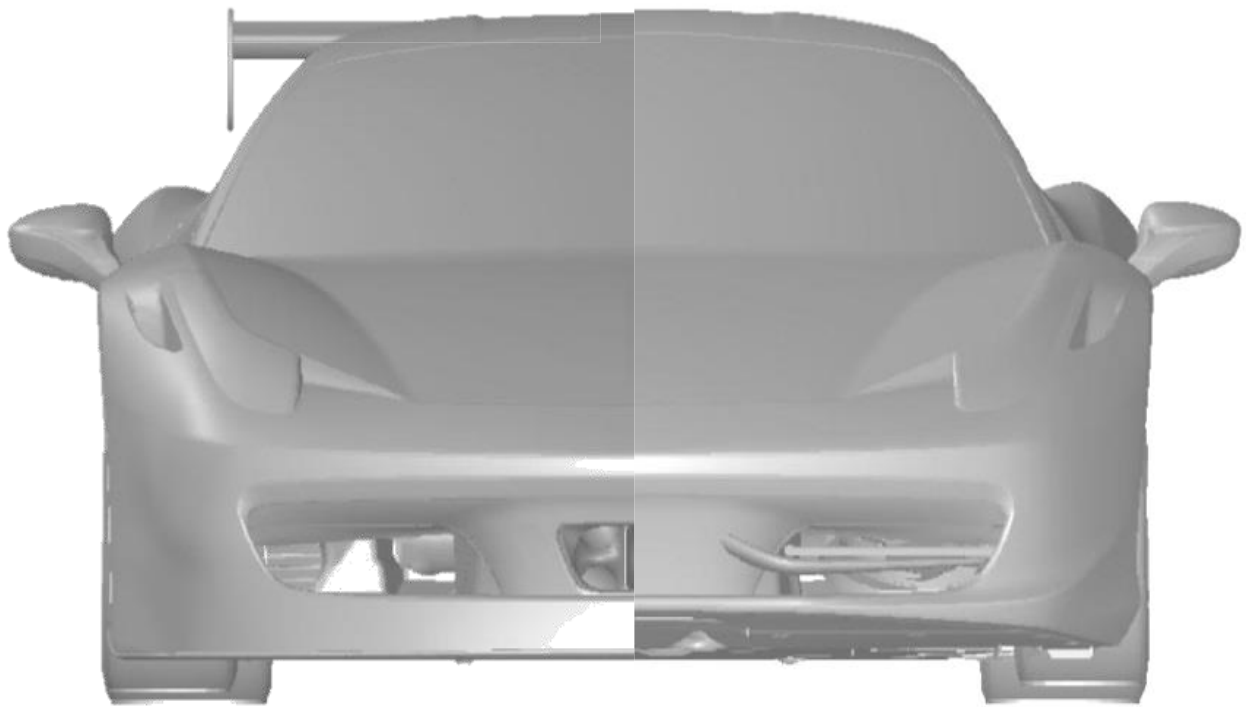
In fact, with the 458 Challenge Evoluzione, Ferrari has set a new benchmark for a championship that has been attracting its clients for the last 22 years.



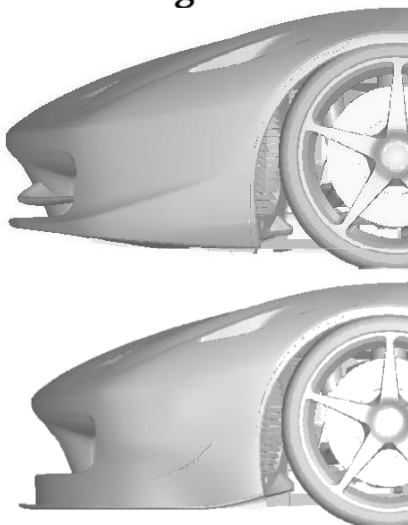
The Ferrari engineering team drew on the marque's experience in GT2 and GT3 racing and focused on aerodynamic development, resulting in a car that will allow drivers to make the very most of its dynamic and performance potential, thereby pushing both their own and its limits still further.

458 Challenge Evo

458 Challenge

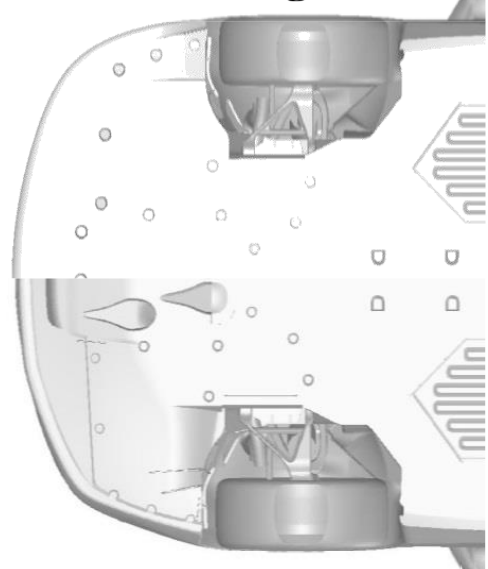


458 Challenge



458 Challenge Evo

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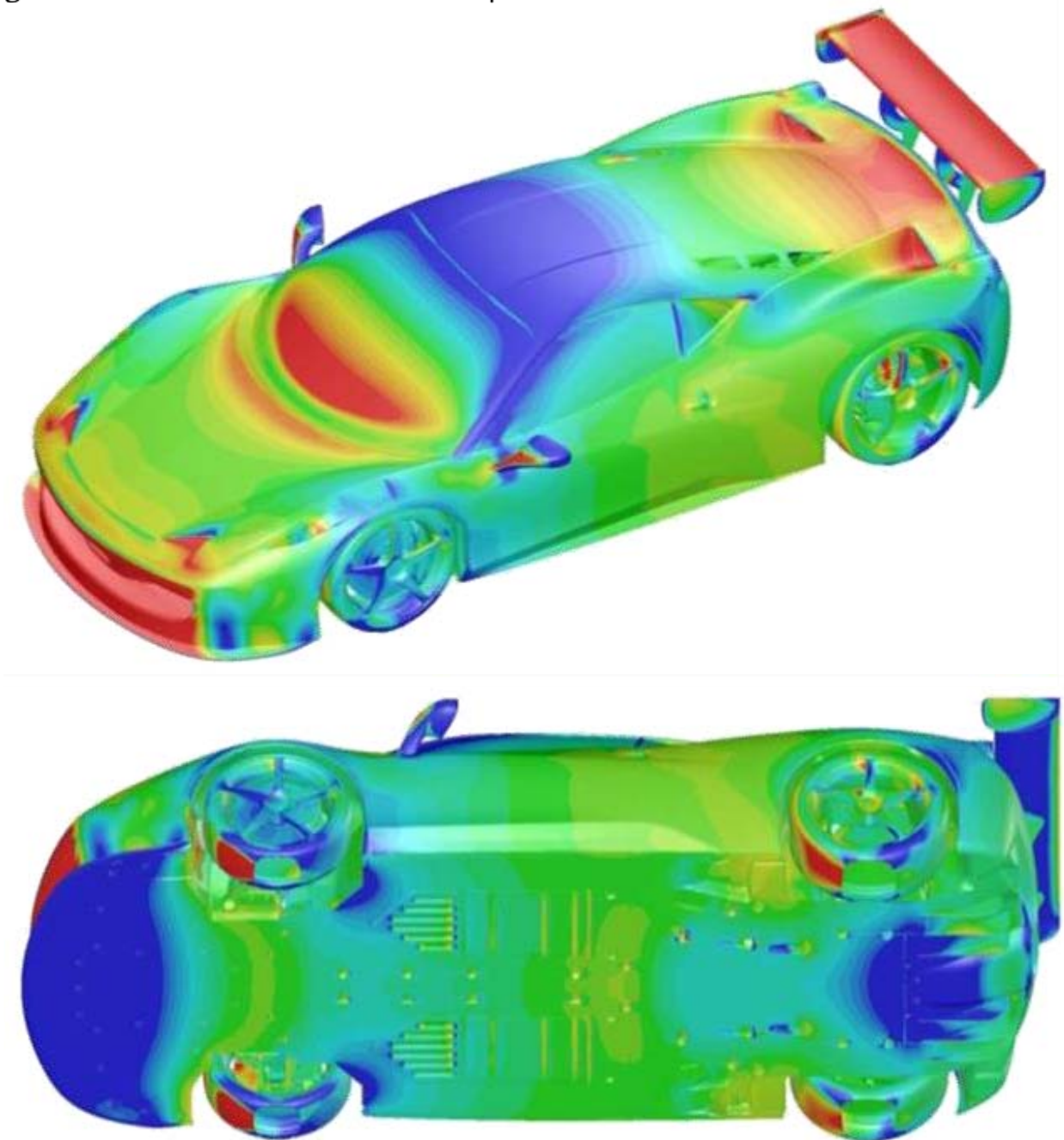


458 Challenge

Thanks to boosted downforce generated by the rear wing and its redistribution, the car is instantly faster in all conditions, improving on both its Best Lap performance and overall race performance.

To balance the downforce, the depression at the front of the car has been increased by worked carried out on the splitter and the aerodynamic underbody, eliminating the diffusers close to the front wheels.

This makes the 458 Challenge Evoluzione more responsive and eager going into corners and allows it to hold a very steady line as well as being faster through and exiting corners. The same astonishing stability is moreover observed on fast straights to deliver an awesome overall performance.



Improved aerodynamics means that the 458 Challenge Evoluzione's tyres work more uniformly, extending the consistency of their performance. It takes longer for a drop-off to become noticeable and thus the car's overall performance is significantly improved, allowing the driver to drive the car on the limit for longer. To achieve this result, the front suspension springs have been modified to 220 kg/mm to ensure they are up to the task. The position of the air intakes for brake cooling has also been changed, resulting in boosted efficiency and performance.



The combination of these improvements has made the new 458 Challenge Evolution even more suited to use by Ferrari Gentleman Drivers as it delivers improved driving pleasure and fun behind the wheel on all the circuits on which it will be racing.

For all other production information such as Drivetrain, Vehicle Dynamics and Interior spec, please consult "Product Marketing Communication No. 5/2010"

Technical data

DIMENSIONI E PESI DIMENSIONS AND WEIGHT		MOTORE ENGINE	
Lunghezza Overall length	4.527 mm 178.2 in	Tipo Type	V8 - 90° V8 - 90°
Larghezza Overall width	1.937 mm 76.3 in	Alesaggio e corsa Bore and stroke	94 x 81mm 3.7 x 3.2 in
Altezza Height	1.163 mm 45.8 in	Cilindrata totale Total displacement	4.499 cm ³ 274.5 cu in
Passo Wheelbase	2.650 mm 104.3 in	Rapporto di compressione Compression ratio	12,5:1 12.5:1
Carreggiata anteriore Front track	1.692 mm 66.6 in	Potenza massima Maximum power	570 CV a 9.000 giri/min 419 kW at 9,000 rpm
Carreggiata posteriore Rear track	1.616 mm 63.6 in	Potenza specifica Specific output	127 CV/l a 9.000 giri/min 1.53 kW/cu in
Peso a secco Dry weight	1.218 kg 2,685.2 lb	Coppia massima Maximum torque	540 Nm a 6.000 giri/min 398 Nm at 6,000 rpm
Distribuzione dei pesi Weight distribution	42% Ant - 58% Post 42% Front - 58% Rear	PRESTAZIONI PERFORMANCE	
Capacità serbatoio Fuel tank capacity	113 l 29.8 US/gal	Velocità massima Maximum speed	310 km/h 192 mph
PNEUMATICI TYRES		Max accelerazione laterale Maximum lateral acceleration	1,6 g 1,6 g
Anteriori Front	255/650 19"x 9" 255/650 19"x 9"	Peso / Potenza Weight / Power	2,14 kg/CV 6.4 lb/ KW
Posteriori Rear	305/690 19"x 11" 305/690 19"x 11"	Tempo giro di Fiorano Fiorano lap time	76,5 s 76,5 s
FRENI BRAKES		TRASMISSIONE E CAMBIO TRANSMISSION AND GEARBOX	
Anteriori Front	398 x 38 mm 15.7 x 1.5 in	Cambio F1 a doppia frizione 7 marce F1 dual clutch transmission 7 gears	
Posteriori Rear	380 x 34 mm 15 x 1.34 in		
CONTROLLI ELETTRONICI ELECTRONICS			
E-diff3, F1-Trac, ABS prestazionale Manettino 3 posizioni			
E-diff3, F1-Trac, high performance ABS 3 position manettino			