

## DESIGNED TO RACE

### Objective

Alfa Romeo Racing ORLEN needed the right workstation solution to power their application hungry design and development process for their FORMULA 1 racing cars, and also support the team during the races with mobile solutions to run simulations.

### Approach

To achieve the best aerodynamics design and the highest engine performance Alfa Romeo Racing ORLEN needs workstations with the highest computing power and reliability to manage the design process and data. Nothing matters more in FORMULA 1 than speed and performance.

### Solution

Powerful ConceptD Mobile workstations and desktop workstations and ConceptD monitors give designers and engineers the freedom and reliability to work with high level of performance, accuracy and speed. Equipped to handle heavy workloads, powered by the latest Intel® processors and NVIDIA® graphics solutions, optimized quiet cooling, and Pantone® validated professional displays enables Alfa Romeo Racing ORLEN to maximise the design interaction cycles in the minimum timeframe.

### At A Glance

- ConceptD 7 Ezel
- ConceptD 700
- ConceptD CM Series
- Dassault Catia



Alfa Romeo Racing ORLEN needs incredible power and accuracy to get the best car design in one of the most technology advanced and competitive sports.

ConceptD with the Intel® Core™ processors and NVIDIA® GeForce/Quadro RTX™ GPUs perform the heaviest tasks very efficiently. It ensures maximum productivity and reliability which is essential in FORMULA 1.

FORMULA 1 is a team sport. Individual performances can change races, but behind every driver and car, there is the full commitment of a team. As a privateer, Sauber has written important pages in FORMULA 1 history, distinguishing itself by the brave decisions and the talent-scout spirit of its founder Peter Sauber, the technological expertise and the impressive wind-tunnel facilities, becoming a leader in innovation and research.

For over 50 years, the innovative Swiss company has been setting standards in the design, development and construction of race cars for various championship series, such as FORMULA 1, DTM, and WEC.

ConceptD 700



ConceptD 500



**“We develop long-term partnerships, it is important for us to work with the leader in each field. With ConceptD from Acer we have found the right partner.”**

Frédéric Vasseur, Team Principal of Alfa Romeo Racing ORLEN and CEO of Sauber Motorsport

After 25 years of competition in FORMULA 1, the company launched a long-term partnership with Title Sponsor Alfa Romeo in 2018 and enters the 2020 championship under the Team name Alfa Romeo Racing ORLEN.

be processed in the shortest possible time and multiple design iterations and simulations. Alfa Romeo Racing OLREN expects the maximum support even before the cars are going to be tested in the wind tunnel or on the race track.

ConceptD 7

## Nothing matters more than speed and performance

There is no sport where winning or losing depends on a hundreds of seconds. In order to be successful in FORMULA 1, a top racing car must be designed, constructed, tested and continuously optimized. During the “race before the race”, the foundations are laid to determine whether the basis for a winning car is right or not.

ConceptD provides racing engineers the hardware tools they need to realize their fastest dreams. Especially in the design and development phase, the highest precision is required. Unbelievable amounts of data must

**“Because track time is limited, at lot of efforts go into simulations, you need very powerful workstations, like the ConceptD 700, which helps us to give the driver the feeling he is really driving the car.”**

Jan Monchaux, Technical Director, Alfa Romeo Racing Orlen.



ConceptD 7 Ezel



**“ConceptD is the perfect tool for our 250 engineers working on desktop and notebook workstations with high level of performance and speed.”**

Frédéric Vasseur, Team Principal of Alfa Romeo Racing ORLEN and CEO of Sauber Motorsport

## Optimal performance workstation

Optimized for 2D/3D CAD, BIM design and photorealistic models in real-time, the ConceptD workstations are powered with up to the latest Intel® Xeon® processors, and optional Optane™ memory. Combined with an NVIDIA® Quadro RTX™ graphics, the ConceptD provides unmatched power for unmatched creative freedom in areas like 3D modeling design and visualization AI-powered workflows.

## Cooled to perfection

Processor intensive applications such as rendering and video production will cause the processor and GPU to run hot. The ConceptD workstations have optimal thermal, ventilation, airflow dynamics and are cooled using three cooling fans to draw the air in through the triangular front air panel and dissipating the heat throughout the chassis. And yet, at just 40dBA it is still quiet enough to be unobtrusive.

## Highest color accuracy

Designers and Engineers are often dependent on exact colour reproduction. Delta E<1 displays reproduce colours of input and output signals more accurately and without colour distortion, while ensuring working on multiple displays show the same colour saturation in any environment.

**“The ConceptD 4 K monitors are truly impressive, the colour and detail accuracy is stunning.”**

Jan Monchaux, Technical Director, Alfa Romeo Racing Orlen.

## The luminosity makes the difference

ConceptD uses HDR 1000-Displays which offer a luminance similar to that of the human eye and have a much wider color palette than conventional monitors.

Concept CM Series





## “ConceptD offers the best in class workstations and monitors by breaking limits between people and technology.”

Frédéric Vasseur, Team Principal of Alfa Romeo Racing ORLEN and CEO of Sauber Motorsport

The ConceptD monitors take this great performance to a whole new level with 1,000 nits of peak brightness, full direct array backlighting, an incredibly true-to-life color space and takes it to a whole new level.

### Designed to race

FORMULA 1 is mainly a question of what speed and precision you are able to drive. Therefore the whole team and all partners must be drilled to speed, reliability performance.

Only those who do this at the highest level can contribute to success in FORMULA 1. Frédéric Vasseur, Team Principal of Alfa Romeo Racing ORLEN and CEO of Sauber Motorsport says “We need partners like ConceptD from Acer to achieve our targets.” To guarantee this best in class performance, Acer invests in testing, verification and partner relationships to ensure that ConceptD is reliably used with professional applications from the world’s leading independent software vendors (ISVs).

Learn more at

<https://www.acer.com/conceptd>

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