

Three miles up: team sets extraordinary new altitude record

12/01/2022 A Taycan Cross Turismo has entered the Guinness World Record books after setting a new benchmark for the greatest altitude change ever achieved by an electric car – 4,842.967 metres, or just over three miles.

J.F. Musial and his team are usually behind the camera, creating automotive films and TV shows. They're also close friends and travel addicts – always exploring and scouting new locations, even when the cameras aren't rolling. Now, this interest has taken them to new heights – literally.

Motivated by curiosity, they've driven a Porsche Taycan Cross Turismo on a record-breaking journey from deep underground to the top of a mountain. In a little over a day, they navigated from the lowest point they could access in America by car, to one of the highest – a vertical distance of nearly five kilometres – travelling more than 2,250 kilometres between the two, pausing only for both humans and the car to momentarily re-charge.

Their achievement has been recognised by Guinness World Records – setting a new benchmark for the

greatest altitude change ever achieved by an electric car.

“It started as a ‘what if?’ – a passion project, mixing our love for cars and travel and taking it to extremes,” explains Musial. “We wanted to drive from the lowest point in America to one of the highest, Pikes Peak – where we’ve spent countless hours filming the famous hill climb. The project relied on a lot of goodwill, and a car that’s pretty much unique in its mix of abilities.”

Going underground at the Eagle Mine in Michigan

The lowest point in America is Badwater Basin in Death Valley, at 86 metres below sea level. To go any deeper, you have to go underground. And so the team did exactly that, thanks to the generous support of the enthusiast staff and operators at Eagle Mine in Michigan. This high-grade nickel and copper mine is the only mine in America where a car can be driven to sufficient depths, down a ramp usually used by specialist mining vehicles.

Due to the Taycan Cross Turismo being a pure BEV vehicle as well as being capable off-road with raised ride height and all-wheel drive, it met Eagle Mine’s criteria for being allowed to drive through the portal and into the tunnel itself. This makes it one of very few cars in the world with the right mix of capabilities to be able to attempt the trip – without any modification and using completely standard road tyres. And so, after rigorous safety training, the team were granted access to the very lowest part of the excavation – a depth of 540.8 metres below sea level.

The mine team was up to the challenge

Darby Stacey, Managing Director for Eagle Mine, said: “It was fitting to have the Porsche Taycan drive to the bottom of our nickel and copper mine, as both elements are essential to electric vehicles. After numerous risk assessments, safety discussions, and detailed planning, our mine team was up to the challenge. We are proud to have worked with Porsche to safely execute and complete a new world record.”

With their precise depth measured and verified by specialist surveyors, the team emerged from the mine just after dawn and began their relentless journey to gain altitude. Their final destination would be the 4,302-metre summit of Pikes Peak in Colorado, home to the world famous Pikes Peak International Hillclimb, which will run for the 100th time this year.

The journey was among the most demanding the car and team had ever experienced. It would take them across six states, and would ascend 4,842.967 metres, or just over three miles, without ever leaving the ground. The oxygen available to them at the start of the journey fell by 40 per cent by the time they reached the top of the mountain. Along the way they encountered sun, rain, snow and ice, fatigue and the ever present threat that the mountain road – and the path to their record – could close due to the weather conditions.

In total, three groups of drivers working in tandem took on the driving duties. They conducted the whole attempt by the book, with separate, sealed GPS devices monitoring their route and altitude throughout – along with an analogue altimeter and witness logs to satisfy the strict Guinness World Records requirements.

As the snow moved in, the window to complete the adventure narrowed – meaning a swift drive to the summit and the finish line. Fittingly it was Dai Yoshihara – class winner at the 2020 Pikes Peak International Hill Climb – behind the wheel for the final, record-breaking stage of the drive. The team of men and women, of friends and now record-breakers covered a total of nearly five kilometres straight up, and 2,274 kilometres along the ground, in 33 hours and 48 minutes. One member of the team completed the whole trip – driving early on, then reverting to the passenger seat. Fittingly, it was J.F. Musial.

“You can plan for months, develop a highly detailed schedule, but at the end of the day it always comes down to execution and weather,” he says. “I couldn’t have been prouder of our team’s efforts. The weather – that was a different story. I’ve always been told that the mountain decides if it’ll allow you to get to the summit. Despite an incoming snowstorm, we got lucky and found a small 45-minute window to get to the top – the mountain let us get this record.

“It was among the hardest things I’ve ever done, but I guess that’s why it’s a record! Thank you to the teams at Eagle Mine and Pikes Peak, and at Guinness World Records, for supporting what started out as a daydream and ended up being something none of us will ever forget. Now, I need to sleep for a week …”

Consumption data

Taycan 4 Cross Turismo (2023)
Fuel consumption / Emissions

WLTP*
Electric power consumption* combined (WLTP) 24.8 – 21.4 kWh/100 km
CO emissions* combined (WLTP) 0 g/km
CO2 class A Class

Taycan 4S Cross Turismo (2023)
Fuel consumption / Emissions

WLTP*
Electric power consumption* combined (WLTP) 24.8 – 21.4 kWh/100 km
CO emissions* combined (WLTP) 0 g/km
CO2 class A Class

*Further information on the official fuel consumption and the official specific CO emissions of new passenger cars can be found in the "Leitfaden über den Kraftstoffverbrauch, die CO-Emissionen und den Stromverbrauch neuer Personenkraftwagen" (Fuel Consumption, COEmissions and Electricity Consumption Guide for New Passenger Cars), which is available free of charge at all sales outlets and from DAT (Deutsche Automobil Treuhand GmbH, Helmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, www.dat.de).

Video

https://newstv.porsche.com/porschevideos/200384_en_3000000.mp4

Image Sublines

Path: media/Images/img_1.jpg
Title: J.F. Musial, Taycan 4 Cross Turismo, 2022, Porsche AG
Subline: J.F. Musial and the Taycan 4S Cross Turismo

Path: media/Images/img_2.jpg
Title: Dai Yoshihara, Taycan 4 Cross Turismo, Pikes Peak, 2022, Porsche AG
Subline: Dai Yoshihara receives the award from Guinness World Records

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