

Euro NCAP

Year in Numbers

2022



Euro NCAP's Year in Numbers 2022

2022 will be remembered by Euro NCAP as a record year. Never before did the organisation conduct as many safety tests or have so many newcomers in the programme. The addition of Austria and Norway as new members also increased Euro NCAP's geographic coverage.

2022 has been an exceptionally challenging year for the automotive sector. Not only has the sector had to deal with new safety, emission and cybersecurity regulations, but it has also had to contend with the economic repercussions of the invasion of Ukraine, Brexit, and the challenges related to shortages of semiconductor chips, materials, and labour.

To ease the burden on industry, Euro NCAP delayed the introduction of its new protocols to the beginning of 2023. During 2022, we published a total of **73 safety ratings**, of which **67 were for brand-new car models**, including 65 models with the lowest safety specification and two ratings for models with optional equipment - and six for variants of previously tested models.

Additionally, Euro NCAP issued Assisted Driving gradings for five cars equipped with Highway Assist and **19 commercial van ADAS ratings**.

**73 SAFETY
RATINGS,
67 OF WHICH
ARE FOR NEW
CAR MODELS**



Michiel van Ratingen

“Euro NCAP celebrated 25 years of making cars safer in February 2022. As our Silver Jubilee year comes to an end, we want to take a minute to celebrate the many accomplishments we have made together and thank all our sponsors, partners, employees, and their families for their support.”



2022 in review



STARS

Taking advantage of the additional year, the latest models scored very well against the criteria. 15 out of 65 cars received four stars (22%), while 50 cars received five stars (78%) overall. In contrast to 2021, no vehicles received three stars or less.

**22 OUT
OF 65
NEW
MODELS**



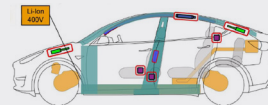
NEW BRANDS

Many new players have entered the European market, largely thanks to the increasing popularity of EVs. Seven brands made their Euro NCAP debut in 2022, six of which originate from China.

SEVEN BRANDS MADE THEIR EURO NCAP DEBUT IN 2022

ELECTRIC CARS

As in 2021, the EV market continues to expand quickly. In 2022, full electric vehicles made up 22 out of 65 new models, or 34%. 17 more vehicles (26%) offer either mild hybrid, hybrid electric or plug-in hybrid drivetrains. ICE's share decreased to 40% from 50% in 2021.



POST-CRASH RESCUE

Now available in four European languages, the Euro Rescue app contains standardised rescue information for 1246 vehicles in the European fleet. Also available for free download are Emergency Response Guides for electric and hybrid vehicles.

DRIVER MONITORING

Attention assist systems are increasingly common in cars. In 2022, most vehicles evaluated by Euro NCAP, 61 or 94%, already included a system for detecting driver drowsiness. In 53 out of 61 cases this is delivered by monitoring of steering-wheel input and/or lane position, while in 9 cars direct driver eye tracking or a combination is used.

72% CAME WITH STANDARD FRONT-SEAT CENTRE AIRBAGS

CENTRE AIRBAGS

Centre airbags to reduce injuries in far-side crashes are one of the new safety elements that have recently been recognised. Of the 65 new cars examined, 47 (72%) came with standard front-seat centre airbags.



UP TO 94% INCLUDE A DETECTING DRIVER DROWSINESS SYSTEM



2022 in review

NEW CAR SALES

Of new cars sold in 2022, an estimated 90% have a valid Euro NCAP safety rating, while 10% hold an expired rating or were never rated. In the first three quarters of the calendar year, 8.1 million passenger cars were sold in the EU, 71% of those with a valid rating were 5-star cars, 17% were rated 4 stars and 12% 3 stars or less.

SAFETY BEYOND REGULATION

Between Jan 2020 and December 2022, Euro NCAP rated 109 new car models entering the European market. The General Safety Regulation 2 went into force around the conclusion of this time frame, mandating features that Euro NCAP had been evaluating for the previous ten years. Nevertheless, to receive five stars, a car must surpass the new regulatory criteria in several areas, from structural and restraint performance to sensors and software. Despite the addition of new tests

and stricter requirements, an average of 74% of tested cars over the period received five stars as opposed to 78% in the years immediately before. With the introduction of its 2023 rating protocols, Euro NCAP will continue to push safety developments. These requirements include, among other things, child presence recognition, systems to prevent collisions with powered two-wheelers, and more sophisticated driver monitoring systems.



“EUROPE'S BESTSELLING CAR
TESLA MODEL Y AND NEW
MODEL S BOTH ACHIEVED
TOP SCORES IN EURO NCAP
SAFETY TESTS IN 2022.”

VEHICLE WEIGHT

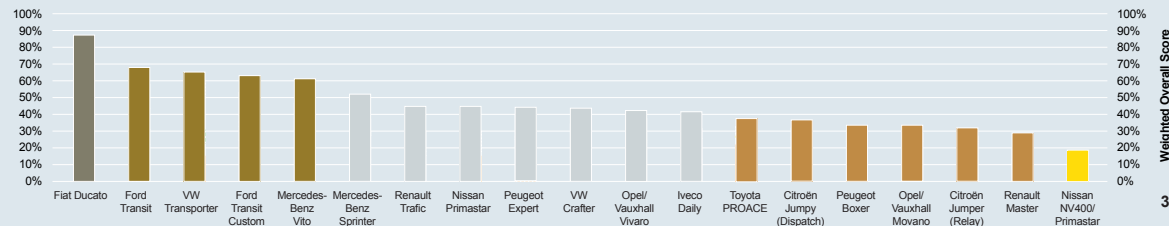
For various reasons, vehicle mass has been slowly creeping up over the last decade in all car categories. Electrification clearly accelerated the trend as new BEVs often have a big increase of mass, equivalent to the weight of two passengers or more, over the ICE models they replace.

Average Kerb Weight (over tested variants)			
Category	2010-2012	2020-2022	2022 (BEV)
Small Family Car	1,362 kg	1,443 kg	1,657 kg
Large Family Car	1,559 kg	1,789 kg	2,022 kg
Small SUV	1,579 kg	1,717 kg	1,978 kg

While increased vehicle mass is not necessarily detrimental for self-protection, excessive mass and incompatible weight classes of vehicles on our roads are a growing concern. Euro NCAP will continue to encourage adequate energy absorbing structures and load paths working for different sizes of cars and push for more effective active safety systems e.g. for vulnerable road users and in crossing accidents.

COMMERCIAL VAN SAFETY

Consumers and businesses can assess the safety potential of various car models using star ratings, allowing them to consider safety when making a purchase. The same principle applies to commercial van ADAS ratings, published since 2021. In 2022, Euro NCAP revisited the list of available light commercial vans and updated the ratings of 19 commercial vans equipped with ADAS. Although there has been positive development, there is still a sizable performance and fitment gap for driver assistance systems compared to consumer cars.



Your favourite clicks

Here are some of Euro NCAP's takeaways on how consumers view our results on www.euroncap.com

Euro NCAP had over
3.5 MILLION
VISITORS IN 2022

and nearly
14.5 MILLION
PAGE VIEWS

Of these **65%** originated in Europe and **23%** are based out of Asia, the rest are distributed across the Americas and Australia.

The car that received the most views for the third-year running was the
DACIA DUSTER
96,111 VIEWS

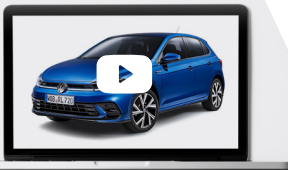
closely followed by the
RENAULT ZOE
83,937 VIEWS



The **NISSAN QASHQAI** was the most viewed assisted driving assessment on-line.

The most viewed commercial van was also awarded Euro NCAP's very first Platinum rating – the
FIAT DUCATO.

And the most viewed video on YouTube was the
VW POLO
293,393 VIEWS
Its car safety rating was released back in March.



Later in 2022, Euro NCAP released results for the
TESLA MODEL S and the **TESLA MODEL Y**
OVER 150,000
– both these cars quickly became very popular views.

Best in class

Euro NCAP best-in-class winners of 2022 were cars that achieved the highest overall scores, based on results in **Adult Occupant Protection, Child Occupant Protection, Vulnerable User Protection and Safety Assist technologies**.

This year's results underline the importance of the Euro NCAP five-star rating for establishing safety, credibility, and quality in the European market, but also beyond Europe's borders.

THE WINNERS WERE THE FOLLOWING

- **Hyundai IONIQ 6** wins the best-in-class award in the Large Family Car category;
- **ORA Funky Cat** in the Small Family Car Category;
- **Tesla Model S** in the Executive Car category;
- **Tesla Model Y** in the Small Off-Roader category;
- And finally **WEY Coffee 01** in the Large Off-Roader category.

The **Tesla Model S** also wins in 2022 in the Pure Electric category.

About Euro NCAP

Euro NCAP provides consumers with an independent assessment of the safety level of the most popular cars sold in Europe.

Euro NCAP is a catalyst for encouraging significant safety improvements to new car design. We hope that when buying a new car Euro NCAP will help you choose for safety.

2023 & beyond

The fourth strategic plan from Euro NCAP, titled **Vision 2030: A Safer Future for Mobility**, was released in November 2022. In it, the association outlines its future ambitions, considers emerging technologies and going above and beyond the safety of passenger cars.

Download our roadmap here.

