

**Space Drive makes it possible:
A Tesla Model 3 without steering wheel and pedals**

A Swabian entrepreneur puts his vision of the autonomous driving vehicle on the road using a Tesla Model 3 as an example. Roland Arnold has developed a key technology that makes autonomous driving technologically feasible in Germany. He sees the new draft law on autonomous driving as confirmation of his work.



The Tesla Model 3, retrofitted with the Space Drive driving and steering system, provides a glimpse into the automotive future.

A Tesla Model 3 with the triple-redundant drive-by-wire technology Space Drive impressively demonstrates the potential of this technology - with full road approval: From the outside, the white Model 3 looks like any other. But anyone who opens the doors gets a glimpse of the automotive future. Swabian entrepreneur Roland Arnold has given the Tesla an upgrade. Steering wheel out, pedals out - the prototype is driven via a small joystick in the center console. This is made possible by a proven technology from the world of mobility for the disabled: the fail-safe Space Drive drive-by-wire system.

"We are excited to hear what Elon Musk has to say about this vehicle," says mobility inventor Arnold. "We've already been driving without a steering wheel and pedals for a long time - without any mechanical connection at all for the primary vehicle functions of accelerator, brake and steering." Where the joystick still takes control here, driving automation could also be realized via an interface in the Space Drive control unit. An important step toward the mobility of the future. "Fail-safety is a key to autonomous driving," Arnold is certain.

A bill in the German Bundestag, which is expected to pass next night, supports Arnold's vision. "The law paves the way for the technology to now be tested and further developed in the public transport sector. This will allow Germany to lead the way," said Arnold, who was recently honored with the Rudolf Diesel Medal for the most sustainable innovation achievement. "And we already have the road-approved, ISO 26262-compliant technology to realize this vision - immediately available and retrofittable into any vehicle, such as the Tesla Model 3."



The Tesla could also be controlled by a driving automation system. This could be used to design completely new interior concepts.



The Tesla Model 3 equipped with Space Drive impressively demonstrates that the new legislation is an important milestone for the development of the automobile of tomorrow.

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About Paravan GmbH:

Paravan GmbH is the world market leader for highly customized vehicle solutions for the disabled. Around 180 employees develop and produce individually adapted automobile conversions, power wheelchairs. Paravan pursues a holistic approach with the "all-in-one concept". The technological highlight is Space Drive, an intelligent digital control system based on the drive-by-wire principle. Thanks to the active redundancy of the servo motors, it is completely fail-safe and the first in the world to be approved for road use. With the help of this innovation, severely disabled people, some without arms or legs, can drive independently and safely. It is not possible for these drivers to simply intervene in the steering wheel. Worldwide, Space Drive has proven itself on over one billion road kilometers in the last 18 years and is used by numerous industrial customers for test vehicles in the field of autonomous driving. The system is available as a retrofit kit with an open interface for all known vehicle types. www.paravan.com