



MAN presents its mobile coronavirus test vehicle: PCR test results available within one hour

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MAN Truck & Bus has developed a unique, innovative diagnostic vehicle in cooperation with recognised experts from the health sector, which can be used to detect SARS CoV-2 infections safely and quickly at hotspots. The rolling laboratory is based on the MAN TGE van. With more than 500 tests per vehicle and day, the rolling laboratory is perfectly suited for carrying out tests directly on site if a potential infection is suspected, for example in old people's homes, schools, companies or other institutions. With the help of the MAN Coronavirus diagnostic vehicle, chains of infection can thus be interrupted in a targeted manner.

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- **MAN's test vehicle will help to contain the coronavirus pandemic**
- **PCR test results in line with the highest medical standards are available directly on site within one hour**
- **More than 500 test results are possible per vehicle each day**

The innovative MAN coronavirus test vehicle will make a vital contribution to containing the Covid-19 pandemic by providing fast PCR test results on site. The quicker that everyone involved at a new coronavirus hotspot are tested, including all the suspected cases, the more effectively outbreaks and any further spread of the virus can be stopped. In addition to easy planning of the mobile test vehicle's deployment, the speed of the tests is another advantage of this innovative product. With the innovative molecular diagnostic PCR test equipment Vivalytic from Bosch Healthcare Solutions on board the MAN TGE, test results are available within one hour. These PCR test devices are currently among the fastest approved devices on the market. The entire process including smear, sample preparation and testing therefore takes less than an hour.

When deployed for mobile use, for example at border crossings along the motorway, the MAN coronavirus test vehicle displays another of its strengths:

MAN Truck & Bus is one of Europe's leading commercial vehicle manufacturers and transport solution providers, with an annual revenue of some 11 billion euros (2019). The company's product portfolio includes vans, trucks, buses/coaches and diesel and gas engines along with services related to passenger and cargo transport. MAN Truck & Bus is a company of TRATON SE and employs more than 37,000 people worldwide.



flexibility. Test capacities can, for example, be quickly relocated as required and deployed exactly where they are needed. The mobile test vehicle is also digital. Four tasks can be performed in it in one continuous process: swab sampling, testing, analysis and communication. The PCR test results are digitally transferred from the test device to a laptop in real time. That enables a quick report to be sent directly from the MAN van to the responsible health authorities, departments, or to the person tested.

The benefits of the MAN coronavirus test vehicle at a glance:

- Flexible testing where it is most urgently needed, e.g. at regional hotspots
- Preventive testing on site possible, e.g. before events with large numbers of people
- Reduction in production losses at companies (involvement of the company's medical services)
- Simple testing of patients with limited mobility, e.g. in care or retirement homes
- Fast identification and isolation of infected people
- Clear reduction in process times
- Relief for general practitioners and laboratories

Two different vehicle designs are available: one with a standard wheelbase and 3.5 t gross combination weight and one with a long wheelbase and 5.5 t gross combination weight. The short version serves as a mobile diagnostic vehicle and is equipped with up to 16 Vivalytic test devices by aprimeo diagnostics, a Bosch distribution partner involved in the development. The Bosch Vivalytic test devices are used in specially manufactured rack systems. The swab tests are taken outside the vehicle where qualified medical staff take care of the patients. This deployment scenario, with a high throughput of people being tested, is especially suitable for care homes, schools, large events or companies.

The impressive feature of the long version is that it is highly flexible in its use, with a separate room for taking swabs located inside the vehicle and awnings on both sides to create additional capacity. This enables a quicker and more frequent change of location. The long version is equipped with 8 PCR test



devices. In order to maintain a one-way system when taking swabs, the MAN TGE has been equipped with two automatic lateral sliding doors.

The mobile MAN coronavirus test vehicle is powered by a 2.0 l turbo diesel engine with 177 hp. It can be optionally provided with all-wheel drive and an 8-speed automatic gearbox. The standard fittings include hygienic surfaces, automatic sliding doors, air conditioning system and an auxiliary air-conditioning system as well as an automatic step. As optional extras, the vehicle can be equipped with up to two washbasins (for the test and swab room), a computer workstation with a 220 V connection and a refrigerator.

Both vehicles are fitted with a MAN TeleMatics box to enable internet access. Other equipment options include:

- Closed awning, secured on three sides with tent tarpaulin, to carry out swab tests
- Special signal system, LED emergency light, radio equipment pre-installed
- 400 litre swivel and rollable waste box, with 43 kg payload, mounted to the trailer coupling

In this project, it is not only the vehicle that is unique but also the rapid collaboration from recognised experts in their field. The result is an innovative, practical overall system to contain the coronavirus pandemic. The idea and concept for the mobile coronavirus test vehicle comes from Leeloo Medical and MAN Truck & Bus. The ambulance service provider, MKT-Krankentransport, has contributed its expertise in dealing with patients. MAN and AMS Ambulanzmobile are converting the vehicles in line with medical and epidemiological standards. The inspection and risk assessment of the vehicle was carried out by an expert for epidemiological protection from the Medizinischen Katastrophen-Hilfswerk Deutschland e.V. (MHW). And finally, MAN Truck & Bus has contributed its decades of expertise in implementing special vehicle concepts and their marketing.

The new MAN coronavirus test vehicle for rapid SARS-CoV-2 test results can be used throughout Europe (EU 27+3) and is now available to order. The first two test vehicles were completed in October 2020.

Captions:



P_TGE_MAN_Coronavirus_Diagnostic_Vehicle_02

Flexible use: With the MAN Coronavirus diagnostic vehicle, test capacities can be quickly relocated as required and deployed exactly where they are needed.

P_TGE_MAN_Coronavirus_Diagnostic_Vehicle_06 & 07b

With more than 500 tests per vehicle and day, the MAN Coronavirus diagnostic vehicle is perfectly suited for carrying out tests directly on site, for example, if a potential infection is suspected. Swabs are taken outside the vehicle, where qualified medical personnel look after the patients.

P_TGE_MAN_Coronavirus_Diagnostic_Vehicle_04 & 05

The innovative MAN Coronavirus diagnostic vehicle will make an important contribution to containing the Covid 19 pandemic by providing rapid on-site PCR test results.

P_TGE_MAN_Coronavirus_Diagnostic_Vehicle_09

With the innovative molecular diagnostic PCR test equipment Vivalytic from BOSCH Healthcare Solutions on board the MAN TGE, test results are available within 39 minutes.

P_TGE_MAN_Coronavirus_Diagnostic_Vehicle_08 & 11

The standard fittings include hygienic surfaces. The inspection and risk assessment of the vehicle was carried out by an expert for epidemiological protection from the Medizinischen Katastrophen-Hilfswerk Deutschland e.V. (MHW).