## Press release



### **Combating the coronavirus pandemic:** Bosch develops rapid test for COVID-19 Reliable test results enable differential diagnosis in under 2.5 hours

- Bosch CEO Dr. Volkmar Denner: "Bosch's rapid COVID-19 test will help contain the spread of the pandemic and break the chain of transmission more quickly."
- Bosch is helping medical facilities such as doctors' offices, hospitals, laboratories, and health centers with its new COVID-19 rapid test.
- The rapid test can diagnose ten respiratory pathogens simultaneously for differential diagnosis and meets the requirements of the World Health Organization (WHO).
- Bosch Healthcare Solutions, together with Randox Laboratories Ltd., has developed one of the world's first fully automated molecular diagnostic tests.

Stuttgart, Germany – The coronavirus SARS-CoV-2 is posing major challenges for healthcare systems and medical institutions worldwide. An ability to rapidly diagnose the virus is of invaluable help in curbing its exponential spread in many countries. Bosch's new, fully automated rapid test for COVID-19 can help medical facilities such as doctors' offices, hospitals, laboratories, and health centers make fast diagnoses. The rapid molecular diagnostic test runs on the Vivalytic analysis device from Bosch Healthcare Solutions. "We want the Bosch rapid COVID-19 test to play a part in containing the coronavirus pandemic as quickly as possible. It will speed up the identification and isolation of infected patients," says Dr. Volkmar Denner, chairman of the board of management of Robert Bosch GmbH.

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### Faster certainty, slower spread

Developed in just six weeks, the rapid test can detect a SARS-CoV-2 coronavirus infection in patients in under two and a half hours – measured from the time the sample is taken to the time the result arrives. Another advantage of the rapid test is that it can be performed directly at the point of care. This eliminates the need to transport samples, which takes up valuable time. It also means patients quickly gain certainty about their state of health, while allowing infected individuals to be identified and isolated immediately. With the tests currently in use, patients must usually wait one to two days for a result. "Time is of the essence in the fight against coronavirus. Reliable, rapid diagnosis directly on site with no back and forth – that is the great advantage of our solution, which we see as another example of technology that is 'Invented for life," Denner says.

# Differential diagnosis: diagnosing ten respiratory pathogens simultaneously

Bosch's rapid test is one of the world's first fully automated molecular diagnostic tests that can be used directly by all medical institutions. What's more, it allows a single sample to be tested not just for COVID-19 but also for nine other respiratory diseases, including influenza A and B, simultaneously. "The special feature of the Bosch test is that it offers differential diagnosis, which saves doctors the additional time needed for further tests. It also provides them with a reliable diagnosis quickly so they can then begin suitable treatment faster," says Marc Meier, president of Bosch Healthcare Solutions GmbH. The newly developed test will be available in Germany starting in April, with other markets in Europe and elsewhere to follow.

Bosch's rapid COVID-19 test is the result of collaboration between the company's Bosch Healthcare Solutions subsidiary and the Northern Irish medical technology company Randox Laboratories Ltd. "Together with our partner Randox, we have succeeded in developing this innovative rapid test within a very short time frame, and we are now in a position to offer it to the market. The Bosch Vivalytic analysis device evaluates the test safely and reliably directly in the hospital, in the lab, or in the doctor's office, guaranteeing the best possible protection for patients and medical staff," Meier says. The company is currently examining how it can help doctors and nursing staff in medical facilities such as the Robert Bosch Hospital get tested promptly so they can be fit to work for as long as possible – with no risk of infecting others.

### Easy application at the point of care

In various laboratory tests with SARS-CoV-2, the Bosch test delivered results with an accuracy of over 95 percent. The rapid test meets the quality standards of the World Health Organization (WHO). A sample is taken from the patient's nose or throat using a swab. Then the cartridge, which already contains all the reagents required for the test, is inserted into the Vivalytic device for analysis. During the analysis, medical staff can devote themselves to other tasks, for example treating patients. The Vivalytic analyzer is designed to be so user-friendly that even medical personnel who have not been specially trained on it can reliably perform the test. A Bosch Vivalytic analyzer can perform up to ten tests in the space of 24 hours. This means it takes just 100 devices to evaluate up to 1,000 tests per day. Given the dynamic spread of the coronavirus SARS-CoV-2, laboratories are already working beyond capacity. The Bosch Vivalytic will thus help to increase available testing capacities.

### Press photos: #2966042, #2966043

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 403,000 associates worldwide (as of December 31, 2019). According to preliminary figures, the company generated sales of 77.9 billion euros in 2019. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 72,000 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-two percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust. The remaining shares are held by the Bosch family and by Robert Bosch GmbH.

Additional information is available online at <u>www.bosch.com</u>, <u>www.iot.bosch.com</u>, <u>www.bosch-press.com</u>, <u>twitter.com/BoschPress</u>.