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FUTTEC is expanding abroad. The company presented its unique microwave technology in Vienna and in the USA

FUTTEC company, which developed an innovative microwave system for quick, non-invasive and durable repair of potholes on asphalt roads, received a European patent with uniform effect in 17 countries of the European Union. Thanks to this, it can continue its successful operation in the Czech Republic, where it already cooperates with TSK Prague, ŘSD and a number of regional SÚS and municipalities, and start expansion abroad. One of the important steps on this path are trade missions supported by domestic state institutions: in cooperation with the economic diplomacy of the Ministry of Foreign Affairs of the Czech Republic, it recently presented its unique technology in Vienna to representatives and traffic managers of the Austrian capital, experts from supplier companies PORR and STRABAG and representatives of the Austrian state company ASFINAG dealing with the administration of highways and first-class roads.

"The use of our microwave technology is not limited by any season or climatic conditions - with one exception. This is heavy rain, during which streams of water flow along the road. And in Vienna we were greeted by just such weather. The conditions for demonstrating pothole repairs using FUTTEC technology were really extreme," Jiří Rušíkvas, founder and owner of [FUTTEC](#), e



xplains with a smile, adding: "But even under these conditions, everything was successful. In this way, we were able to show in practice how our technology works and what its advantages are compared to conventional methods of repairing cracks and potholes on asphalt roads. We are very happy that they were interested in our non-invasive method, which restores the parameters of the original roadway to the healed site. This opens the way for us to establish closer cooperation."

Repairs of potholes with FUTTEC® microwave technology in Vienna

The representative of the City of Vienna, Wolfgang Ablinger, who heads the management of road construction and maintenance in the Austrian capital, agrees with this: *"The presentation of the FUTTEC microwave technology, which was shown to us by the company's representatives in the 17th city district, was interesting. With this new process of repairing potholes on asphalt roads they healed a defect with a diameter of approximately 30 cm. It is an extremely innovative method that enables high-quality road maintenance. Unlike other repair methods, the asphalt mixture heated by microwaves is homogeneously combined with the gently heated edge of the pothole. If this method is used purposefully, its quality standard is convincing. That is why we are now planning its wider use in order to find out more about its advantages over other technologies."*

FUTTEC recently participated in a trade mission to the USA organized by the Chamber of Commerce of the Czech Republic under the patronage of the Minister of Transport. And of course it continues its development in the Czech Republic as well. It will soon introduce a new generation of even more powerful and faster "microwave patchers" - machines of the FT3 series for complete seamless repair of potholes up to 60 x 80 cm on Czech roads. At the same time, the company is working on the entire ecosystem of repairs, thanks to which potholes on the roads (even with the use of Big Data and artificial intelligence) will not only be repaired with high quality, but also detected or even predicted.



Seamless and, thanks to this, durable repair of the hole with FUTTEC® microwave technology

Why FUTTEC microwave technology?

The patented FUTTEC® technology is used for preventive non-invasive maintenance of asphalt roads. This system can repair a hole on an asphalt surface without creating a joint, changing the original parameters of the road (the repaired area is essentially returned to its original state) and requiring long-term closures associated with detours and traffic queues. Year-round repairs are carried out with the help of unique construction machines: a fleet of FT3+ "microwave patchers" (for complete seamless repairs of potholes up to 60 x 80 cm in size). Separate microwave furnaces are then used to temporarily heal larger potholes using gently and evenly heated packed asphalt mixture.

About FUTTEC and its patented microwave technology:

The company FUTTEC a.s. was founded in 2011 with the aim of developing a unique system for repairing potholes on roads. The technology, which is the result of many years of research and improvement, was created in cooperation with the Institute of Chemical Processes of the Academy of Sciences of the Czech Republic and VUT Brno. FUTTEC won the Visionaries 2019 award for it in the competition of the same name by the CzechInno association. In addition, it managed to obtain a subsidy of 1.8 million euros from the European Commission under the EU Horizon 2020 program for the commercialization of this innovative technology. FUTTEC is now seeking another EU grant under the EIC Accelerator program.

The patented FUTTEC® technology is intended for the permanent repair of potholes on asphalt surfaces on roads, cycle paths and other asphalt surfaces. It works on the principle of heating asphalt mixtures using microwave technology, which ensures deep heating of the repaired area without degradation of the asphalt mixture. The result is high strength and a long service life of the repaired site. Thanks to this principle, road repair can be carried out all year round, i.e. even in winter. Other advantages of FUTTEC microwave technology include speed, flexibility, efficiency and cost savings as well as human resources, environmental friendliness, health safety and transparency (a protocol is created during the repair, which is a warranty certificate for the repair).

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