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demopark 2023
+ Sonderschau Rasen mit Golf- und Sportrasen
Turf Show with Golf and Sports Turf
Flugplatz Eisenach-Kindel | 18.–20. Juni 2023
www.demopark.de

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From robotic mowers and semi-autonomous construction machines to winter maintenance apps: demopark 2023 will showcase current trends and innovations.

Frankfurt, May 8, 2023 - Digital solutions and the Internet of Things (IoT) are also on the rise in the municipal sector and in gardening and landscaping businesses. More efficiency, better controllability and monitoring, documentation in real time and networking are some relevant keywords in this regard. State-of-the-art technologies offer interesting solutions for "multi-tasking" in the equally intelligent and more environmentally friendly use of machinery. "As Europe's largest outdoor exhibition for grounds maintenance and municipal services, demopark 2023 will once again provide a great showcase for innovative technologies, machines and processes. After all, municipal operations and gardening and landscaping are also increasingly concerned with using existing resources efficiently, intelligently and economically when completing upcoming work - and modern technologies are proving indispensable in this respect. We are pleased that all renowned brands are actively involved in this showcase again this year," says trade fair director Dr. Tobias Ehrhard.

Safe and productive with remote monitoring
Are the machines where they are supposed to be? Is the work running smoothly and trouble-free? Outside working hours and at weekends, mobile equipment is not only at risk of theft, but - especially in the case of rental machines - may also be susceptible to faults if used by inexperienced users. A solution to this problem is offered by digital assistants that constantly transmit the position and operational status of the machines equipped with them via the Internet. Owners and fleet managers can thus ensure that any departure from the specified area or operating faults are detected immediately and that remedial action can be taken quickly in the event of problems - sometimes even by remote diagnosis.

Efficient and environmentally friendly "in a swarm
For a long time, the trend has been toward larger, more powerful and thus heavier units, for example, for area maintenance machines. The intelligent networking of small individual machines to form an autonomously operating swarm turns the previous development on its head: The networking ensures that the individual mowing robots work without interfering

with each other or leaving out areas. At the same time, the lightweight design is accompanied by a greatly reduced ground pressure.

First steps towards autonomous construction machines
While the robotic mower works on a clearly defined "territory" in the garden at home, construction machines move in public spaces, which also change due to the respective activity. Here, completely different requirements are placed on safety. Nevertheless, demopark 2023 shows that the development towards more autonomy is also progressing in the construction sector. For example, in order to convert an excavator into a remote-controlled and semi-autonomous machine, additional sensors and cameras are required in addition to a remote control unit to ensure a 360-degree all-round view. After installing the components, the now semi-autonomous construction machine can perform its own tasks. The function of autonomous machines is based on artificial intelligence (AI), thanks to which they can perform tasks independently and without human control. The degree of autonomy is measured in levels from zero to five and ranges from vehicles and machines that are controlled 100 percent by the user (zero) to fully autonomous machines (level five). These perform their tasks completely autonomously and can respond to external disturbances such as vehicles or passers-by. "Even if fully autonomously operating machines such as excavators are currently still dreams of the future, demopark 2023 will show the direction in which developments are heading. It is to be expected that such technical innovations will play an important role in the coming years in mitigating the growing shortage of skilled workers," is Dr. Ehrhard's assessment.
"The fact that partial autonomy has already arrived in practice today can be seen, for example, in driverless vehicles used to safeguard work on highways. Thanks to car-to-car communication, the safeguarding vehicle autonomously follows the vehicles on the traveling construction site - and thus ensures that the work is easier, safer and, overall, more efficient for people," explains Dr. Ehrhard.

Multifunctional and transparent with telemetry
Telematics solutions also open up completely new approaches, not only for the fleet management of construction yards or gardening and landscaping companies, but also for the completion of multifunctional tasks. For example, the coupling of telematics modules on a gritting vehicle used for winter road maintenance or a municipal garbage truck with a smartphone mounted on the windshield in the driver's cab makes it possible to generate a status report in real time by taking pictures of the road during the actual work. Thanks to telematics and GPS data, the data collected in this way can be used to identify upcoming repair work with pinpoint accuracy and to subsequently plan and carry it out. In general, telematics solutions can also be used to create transparent and even legally compliant activity reports and logs, which can be used, for example, for the billing of contract work.

Winter service app - well informed through the winter
Various smartphone apps are now available that offer a range of interesting functions. Winter maintenance apps make it easier to document the work performed and to communicate and plan during operations. Classic applications of such apps include weather forecasts and alarm functions. In addition, some of these apps allow uncomplicated verification of the routes driven and the respective salt consumption via GPS. By linking the app with local weather stations, the clearing vehicles equipped with it even have precise data on regional weather zones; on this basis, operations can be optimally adapted to the current weather conditions and completed with maximum efficiency.

Full range
At this year's demopark, visitors will once again find the entire range of machines, technologies and digital helpers for municipalities as well as gardening and landscaping companies. The spectrum on display ranges from digital tools or small cameras and sensors to hand-held power tools and heavy vehicles. The approximately 25-hectare airfield site in Eisenach-Kindel offers plenty of space to test the exhibited technology yourself and put it through its paces.
The organizer of the trade show is VDMA Services GmbH. Further information is available at www.demopark.de.

For more information, visit www.demopark.de

Do you have any questions? demopark press spokesman Christoph Götz, Tel. +49 69 6603-1891, will be happy to provide you with further information!

Dr. Tobias Ehrhard, Exhibition Director of demopark. Source: Kastner.