No scaffolding required! Equipped with the latest GPR! Accurate rebar location and depth **Flex** NX can be measured by remote control! In some cases, such as on the underside of slabs (ceilings), a scaffold or scooter may be required. NX 25 Sticks and travels on walls and ceilings of concrete structures! Practical application on site! Suction type wall/ceiling traveling robot Equipped World's first practical application! with the latest GPR! Jointly developed by East Japan Railway Company and ONGA Engineering Co in Japan. SPIRADER is a registered trademark of ONGA Engineering Co. the movie Abnormal sticking detection function

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*Appearance and specifications are subject to change without notice.

Collision prevention sensor

Suction-type wall/ceiling traveling robot is utilized to save labor for rebar assessment!

Rebar corrosion inside reinforced concrete is affected by the depth from the surface to the rebar (rebar cover). Rebar exploration is sometimes performed in the planning of surface repair work to prevent rebar corrosion. Conventional rebar inspection is a manual process that requires time and labor to move and install an elevated work vehicle to the measurement position. By using this robot, the movement of each measurement point can be greatly simplified and labor saving can be expected! PBu4p1b

GPR Equipped: The robot can detect buried pipes such as electric conduit, gas and water pipes (CD pipes, plastic pipes, and other non-metallic pipes), concrete thickness, asphalt pavement thickness, and tunnel lining thickness, cracks as well as reinforcing steel bars!

Practical use in bridges in the field! Improved safety and efficiency! Reliable rebar depth inspection! **Conventional Method** After development Concrete Vacuum is generated Remote control on the ground by exhausting the air with a suction fan to stick the machine fetv and effic SPIRADE GPR is installed in the vacuum chamber to measure rebar depth. r supply box rator (for suction fan) Propo for opera Time-consuming to maneuv an elevating vehicle

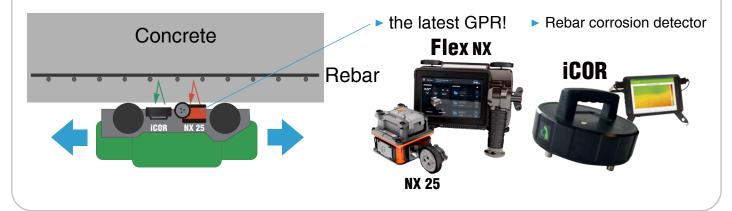
Generator (for traveling motor)

Components and Specifications



It is planned to be equipped with GPR and rebar corrosion detector!

A rebar corrosion detector is also planned to beinstalled in the future. Accurate rebar location and depth can be measured by remote control.







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