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Giant vacuum, minute detail



Based in Saalfeld (Thuringia, Germany), RSP has manufactured suction excavators for over 25 years, predominantly for use in civil engineering. RSP uses high-quality industrial coatings from Spies Hecker to paint its suction units.

Suction excavators work in a similar way to a vacuum cleaner: fans inside the excavator create strong suction, which is used to suck up materials through a hose. The suction technology can suck up soil, liquids, sand, gravel and even building rubble. Accurate guidance of the hose allows underground pipes, wiring and cables to be excavated carefully and without causing any damage – an enormous advantage for carrying out civil engineering work in densely built towns and cities.

Of course, the suction excavator has even more to offer: excavation work usually only requires a single, multi-functional vehicle. Not only does it excavate materials, but it also takes them away afterwards. Even pneumatic hammers and other tools can be powered through a connection to the vehicle, if required. Compared with traditional civil engineering works, building sites often have significantly less space: where a traditional excavator requires a large area to be blocked off for its use, the suction excavator can manage with just a small floor opening.



Simple operation, less back-breaking work, and excavating cables without causing damage – RSP suction excavators takes the weight out of many civil engineering jobs.



Multiple uses, from civil engineering to the chemical industry

“There was a time when suction excavators were only used in civil engineering,” says Angelika Warkus, Marketing Manager at RSP GmbH. “But now it has become established in other sectors, such as the removal of contaminated soil layers, cleaning bio-energy plants, or excavating tree roots in highly compacted soil.” They also do a great job at cleaning up chemical plants where there are high risks to safety. The excavators can be controlled from up to 150 metres away with a remote device, allowing the user to remain at a safe distance.

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To date, RSP has delivered over 750 suction excavators worldwide. The excavator’s hardiness and durability are major selling points, and the same goes for the coating. RSP has a diverse range of paints, including traditional industrial coatings, which can of course be provided in the customer’s brand colours if requested, and with complex glossy and structured coatings. “We use Permafleet by Spies Hecker,” explains Kai Gulden, Team Leader/Surfaces at RSP. “Sometimes we also use Permahyd Hi-TEC or basecoats from the Permacron range.” He goes on to explain what he considers a key feature: “Surfaces need to be hard-wearing. For example, if we deliver to customers in New Zealand, it must be ensured that the coating is able to withstand sea air and salt water.” Furthermore, Gulden



The high-quality coating from Spies Hecker products is another selling point for RSP suction

stresses the importance of the paint being easily and quickly used. “And we achieve exactly that with the coating systems from Spies Hecker,” he confirms. “On top of that, the system is absolutely flawless.”

excavators. Pictured is a vehicle coated in an unusual colour.

You can find out more about the suction excavators from RSP in Saalfeld [here](#).

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