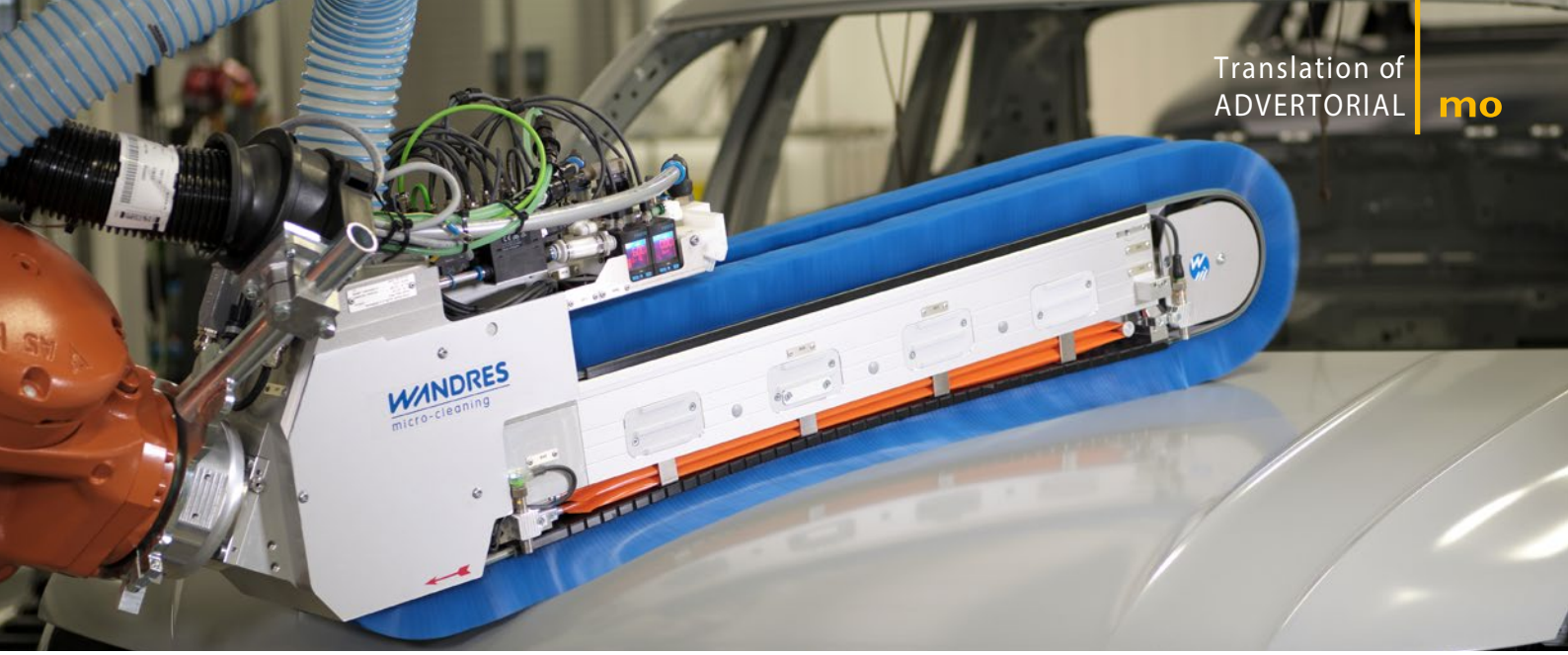
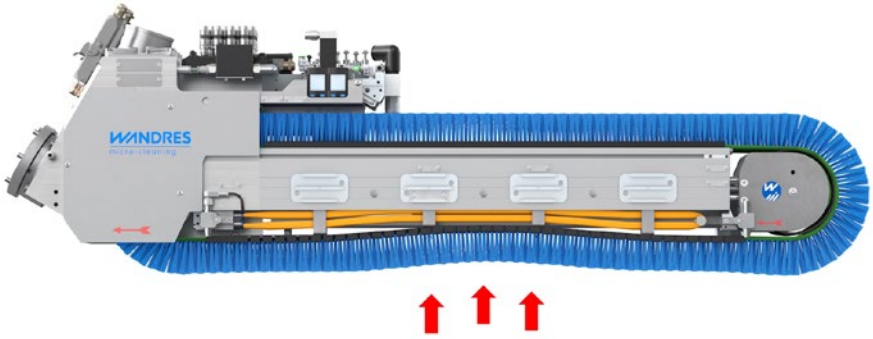


Cleaning vehicle body shells effectively

Tackling cleaning in hi-tech paint shops: the Robot Sword Brush Laura 160 delivers convincing results

The new Robot Sword Brush Laura 160 outperforms traditional cleaning methods in the results of comparative trials. A combination of air technology and brush cleaning technology achieves premium cleaning results at short cycle times and guarantees a surface finish of the very highest quality.



A flexible pressure buffer allows the area of contact to adapt flexibly to the surface, thus ensuring convex and concave surfaces are cleaned optimally.

Twice the wiping power plus micromoistening remove finest particles

The key feature of the Robot Sword Brush Laura 160 are twin linear brushes that circulate in parallel. The filaments of the brushes are lightly moistened with Ingromat, an anti-static cleaning agent. Micro-moistening has the effect of binding even the finest particles to the brush filaments while the surface remains dry. Particles are then detached from the filaments in a self-cleaning unit and disposed of by vacuum extraction.

Combined with flexible air technology cleans hard-to-reach areas optimally

Tornado Nozzles Type Janus 50 D are fitted in a line between the two linear brushes. These rotating nozzles expel compressed air at several times the speed of sound. Particles and dust are thereby blasted out of recesses such as roof seams or recessed grips. The aperture diameter of the nozzles is adjustable from 0 to 1,6 mm and the discharge angle is also variable. This serves to maximise the effect while keeping the use of compressed air to an absolute minimum.

Tornado Nozzles Type Janus 50 D are mounted between two linear brushes

Perfect cleaning results - even at short cycle times

Thanks to the Tornado Nozzles, grooves such as roof seams, for instance, or grip recesses can be specifically targeted for cleaning purposes. To achieve optimal cleaning results, particles are removed first of all from hard-to-reach areas of the body shell by means of air technology. This is followed up by a brush cleaning process. Freshly applied PVC sealant remains untouched by the brushes.

Testing under real-world conditions

At the Wandres GmbH micro-cleaning testing facilities a modern six-axis robot, complete with a positioning track as a seventh axis, can carry out cleaning trials on vehicle body shells and other test objects simulating realistic conditions.

view video

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