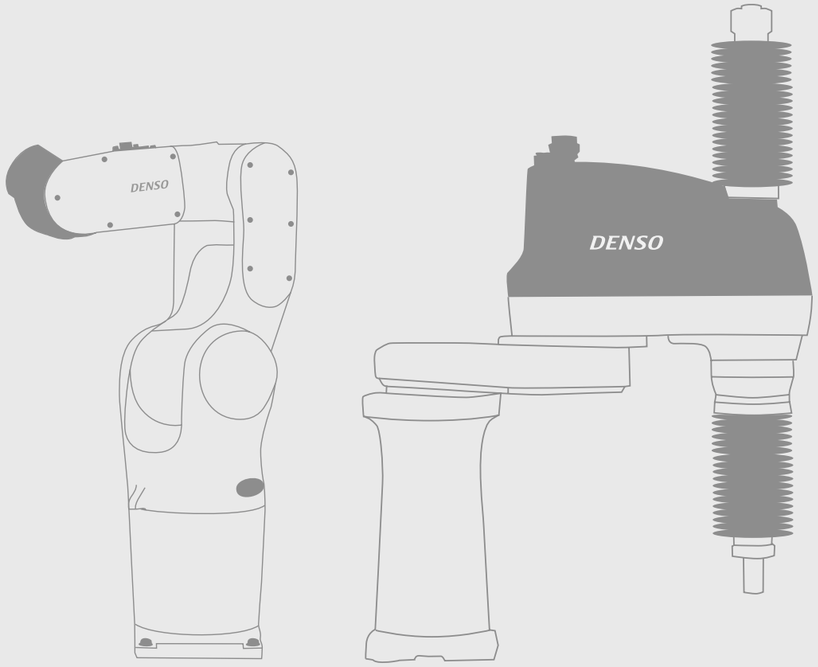
DENSO robotics



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DENSO robotics

ESD Series

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ESD Series

When handling electronic components, for example during PCB assembly, visual inspection, product testing and packaging, uncontrolled electrostatic discharges (ESD) endanger product integrity.

By expanding the possible protection classes to include ESD, DENSO offers the ideal solution for the electronics industry. The ESD series includes the HS-A1 series, as well as the VS series. Ranges from 350 mm up to 905 mm with payloads of up to 7 kg are fully covered. In order to achieve the ESD conformity, required in many parts of the electronics industry, the HS-A1 series as well as the VS series have been subjected to a type approval test by the ESD Academy to ensure that all necessary limits according to IEC 61340-5-1:2016 / ANSI/ESD S20.20:2021 are met and that the product integrity is not compromised.

Certified by ESD-AKADEMIE®

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The ESD conformity was determined and certified by an independent testing institute (ESD Academy) with the following tests.

- **Testing of the leakage resistances** up to the robot flange (dynamic and static)
- **Testing of the electrostatic charge** on all surfaces of the robot (dynamic and static)
- **Testing of dynamic charging** and discharging on the robot