

Dynamic electrostatic performance of MIR250 ESD



Scope:

- Assess the dynamic ESD (electrostatic discharge) capabilities of the MIR250 robot: How well does the robot avoid building up static electricity during driving when driving in- and outside an ESD protected area (EPA)?

What will be available:

- Open seats at R&D Office in Odense SV.
- 1 x MIR250 Robot.
- Support from mechanical and electrical engineering team.
- Complete test equipment + various ESD floors.
- Required standards relating to ESD.

What is expected:

Report including:

- Assessment of MIR250's dynamic ESD capabilities.
 - Limits considering safety of human.
 - Limits considering safety of robot electrical system.
 - Limits from standard.
- Assessment on various ESD floors.
- Assessment of ESD impact of wheels design (e.g. compound and no thread).
- Assessment of ESD impact from environment (e.g. dust/particles on floor, parting agent in mold)
- Assessment of other means to improve dynamic ESD (e.g., ESD tail or swivel wheels).

Note: Projects 1 and 2 could be combined to one project.