



Multimatic

Multimatic Vehicle Dynamics Excellence Award

Frequently Asked Questions

At which events will the Vehicle Dynamics Excellence Award be given out?

For 2022, the Vehicle Dynamics Excellence award will only be awarded at the IC event in May. In future years, the Vehicle Dynamics award may be awarded at different design competitions. This will be announced well in advance.

Who does the scoring?

The senior design judges will be providing the scoring in the design finals phase of the competition.

How is the award scored?

The award will be presented to the team best demonstrating an in-depth understanding and application of vehicle dynamics to:

- Establish vehicle performance targets and associated system specifications.
- Develop component designs to achieve targets.
- Use data acquisition, dynamic simulation, and objective analysis to optimize vehicle dynamics performance.

What will the team win?

- The Multimatic Vehicle Dynamics Excellence Award will consist of a permanent trophy that resides at Multimatic Technical Centre in Toronto and an individual trophy for the team to retain.
- Additionally, Multimatic is providing a set of bespoke FSAE DSSV Dampers to the winning team.
 - The team will be invited to the Multimatic Technical Centre in Toronto to learn how the valving can be specified using SpecFinder, an analytical tool that predicts the damper characteristics.
 - The team will build and dyno the dampers onsite.
 - Multimatic's unique Four Post Rig testing methodology will also be reviewed in detail during the visit.



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What happens if the winning team is already using Multimatic Dampers?

- The team is eligible to win another set of dampers.

Can a team win more than one set of dampers?

- Yes, a team can win the Multimatic Vehicle Dynamics Award multiple times.

Is Multimatic involved in the judging?

- No.

Is there anything for second place?

- No.

Can a team purchase dampers directly from Multimatic?

- Yes, Multimatic wants to work with all teams that are interested in using Multimatic spool valve dampers for either a conventional four damper configuration or a fully decoupled architecture.
- Multimatic has designed a unique through rod roll damper for the decoupled suspension design.
- The dampers are sold at cost. Multimatic does not profit from the sale of the dampers.
- Contact FSAEdampers@multimatic.com for more information regarding the purchase of the dampers.