

AUTOMOTIVE RESEARCH AND DEVELOPMENT CENTRE (ARDC) BRAKE DEVELOPMENT LABORATORY



HISTORY:

- The ARDC Brake Development Lab was established in 2016 as a state-of-the-art facility to support brake noise, durability, and performance testing.

CAPABILITIES:

- Able to perform physical testing, across multiple distinct areas:
- Development and validation testing on front and rear brakes
- Performance validation under normal and extreme environmental conditions
- Brake noise evaluation
- Brake durability testing

VEHICLE PROGRAMS SUPPORTED 2026 YTD:

- Jeep® Grand Wagoneer, Ram 1500, Dodge Durango & Dodge Charger

PARTNERSHIPS:

- Continuously support mentoring and brake component research with University of Windsor engineering co-op students.

FUN FACT:

- Vehicle testing hours to date = 96,840, total number of stops = 912,000
- Equivalent testing travel distance is comparable to circling the Earth's equator more than 120 times!



Full Size Chassis Dyno



1/4 Corner Dyno