S·E·A™

Driven.

VEHICLE DYNAMICS

ENGINEERING · INNOVATION · PRECISION

Think Differently. Think Dynamically.

S-E-A's Vehicle Dynamics group has developed a **Light Vehicle Dynamometer,** which is capable of evaluating a wide range of vehicle configurations and speeds. Doing so without a rider and in our laboratory setting allows us to provide the most controlled, safe, and repeatable analysis.

Configurations have been developed to:

- Manually add rider ballast OR automatically provide rider loading via actuators

- Simulate road load via flywheel inertia OR via electronic braking systems

- Measure speed, acceleration, temperature, voltage, and current

KEY FEATURES

- The vertical spars on the machine allow for loading of the vehicle under test over the seat, footpads, or other user-interface of the device.

- Throttle control is available for vehicles with tilting footpads, as well as a throttle control add-on which allows for control of thumb-levers, twist grips, and other throttle mechanisms.

- An easy-to-use GUI communicates with the real time hardware to perform data collection, provide a controls interface, and evaluate data.

LIGHT VEHICLE DYNAMOMETER

Vehicle testing for: **E-BIKES, ATVS, E-SCOOTERS, HOVERBOARDS, SKATEBOARDS, UNICYCLES** *...and more!*

SPECIFICATIONS

Dimensions	92.5" (L) x 42" (W) x 68" (H)
Categories of Devices	Youth ATV, Stand-Up Electric Scooter, Electric Bicycle, Hoverboard, Electric Unicycle, Electric Skateboard
Device Detail	Wheel Sizes up to 30" Diameter
Measurements	Vehicle Speed (left/right) vs. Time Distance Traveled vs. Time
Maximum Speed	55 mph
Simulated Rider Load	30 - 250 lb. *(variable)*
Simulated Road Load	50 - 393 lb. *(variable)*
Other Features	E-Stop, Windows 11 Computer, Tilt Control via GUI

To schedule a demo or request more information:

VehicleDynamics@SEAlimited.com

SEE THE DYNO IN ACTION!

Vehicle testing for: E-BIKES, ATVS, E-SCOOTERS, HOVERBOARDS, SKATEBOARDS, UNICYCLES...and more!
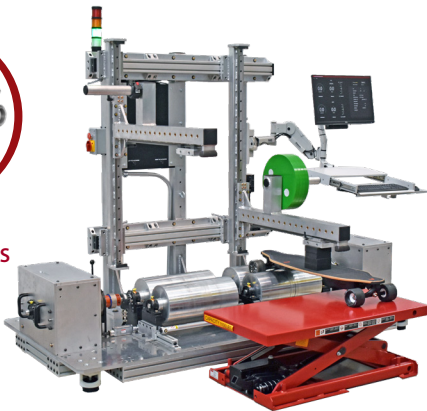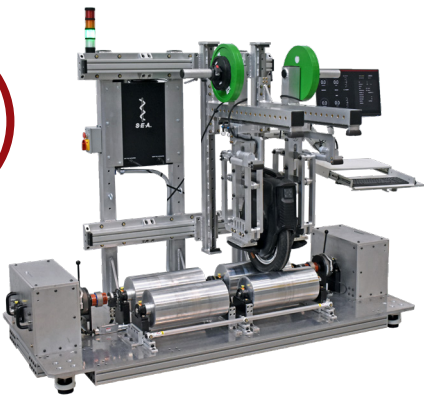
YOUTH ATVS
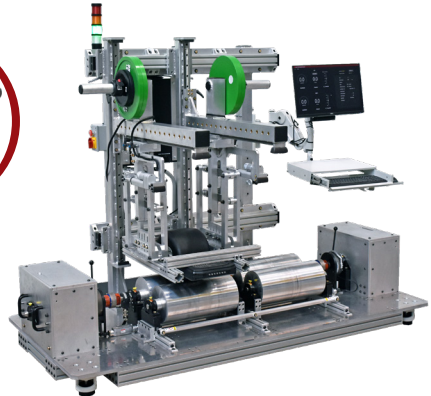
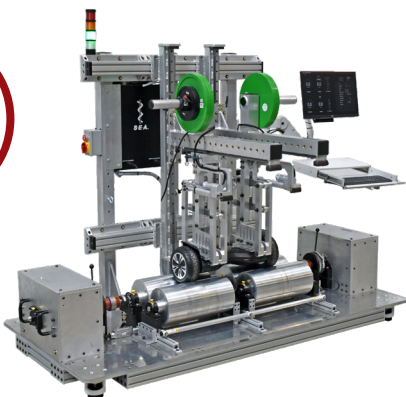**STAND-UP ELECTRIC SCOOTERS**

ELECTRIC SKATEBOARDS

ELECTRIC BICYCLES

ELECTRIC UNICYCLES

ELECTRIC UNICYCLES

HOVERBOARDS

SEGWAYS