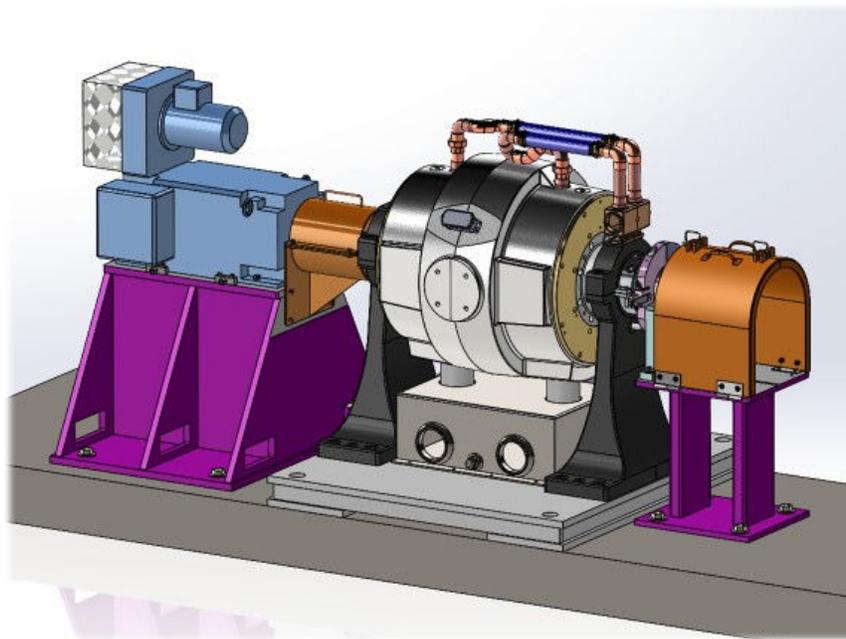


Low Inertia Offset Hybrid Dyno Cummins Charleston



OVERVIEW

The Cummins tech center in Charleston, NC required expanded capabilities for engine testing.

A dyno was required with minimal inertia to allow for low speed and varying test cycles while still allowing peak power test capability. A 100 hp ac motor was used to counteract the large inertial forces of the eddy current dyno, while allowing continued use of the eddy current dynos large power absorption capacity. Additionally, when not needed for inertia offsetting, the 100 hp motor can regenerate its full power capacity, partially offsetting power consumption of the test stand.

KEY FEATURES	EQUIPMENT SUPPLIED	
• 1500 hp EC + 100 hp AC	• 1500 hp Eddy	• Torque
• Tandem Dyno system: AC + EC	Current Dyno	Transducer
• Inertia offset testing	• 100 hp AC motor	• Stands/bases
• Partial regenerative braking	• Coupling	• Guarding
• Partial motoring	• Locking	
	calibration hub	