



AC and DC Drives / Engine Dynamometer



AC and DC Drives

We offer a wide range of regenerative and non-regenerative drive integration solutions that range from straightforward to complex systems for custom applications. We can also replace, upgrade, or retrofit AC or DC systems to meet specific engineering requirements.

Regenerative Drives

Capable of controlling the speed and direction of an AC or DC dynamometer's rotation, as well as the direction of dynamometer torque. The term regenerative describes the ability of the drive, under braking conditions, to convert the mechanical energy of the motor and connected load into electrical energy which is returned (or regenerated) to the AC power source. Regenerative drives provide the dynamometer with the ability to absorb power and motor the device under test. Regenerative drives when operating in the absorption mode, can reclaim a majority of the energy produced from the device under test which may reduce the overall cost of testing.

Non-Regenerative Drives

Capable of controlling the speed and direction of an AC or DC dynamometer's rotation, as well as the direction of dynamometer torque. As a non-regenerative design, the mechanical energy absorbed by the dynamometer is converted to electrical energy which is then converted to heat energy inside a brake resistor. The brake resistors can be air or water cooled depending on the facility needs and capabilities.

Capabilities

- 0 – 1,500 hp (0 - 1,119 kW)
- Regenerative or non-regenerative
- Complete packaged solutions in NEMA rated cabinets
- Multi-drive common bus solutions
- Stand-alone single drives

Everything you need to succeed

Features

- Energy Efficiency
- IEEE519
- Shaft Synchronization
- Master / Follower Applications
- Test Stands
- Fan / Pump
- Retrofits

Services

- Specification / Scope Creation
- Site Survey
- Custom Engineering
- Manufacturing / Assembly
- Pre-Ship Testing
- Final Drawings and Documentation
- Maintenance Contracts
- Custom Packaging

Everything you need to succeed



Dyne Systems is a division of Taylor Dynamometer
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