

HOLT CAT DYNAMOMETER Irving, Texas



PROJECT INFORMATION

PROJECT TYPE

Commercial

EFFECTIVE AREA

2,600 Sq. Ft.

CONSTRUCTION COST

\$2.7 Million

COMPLETION DATE

April, 2016

OWNER

Holt CAT

ARCHITECT OF RECORD

Acuform Architecture

GENERAL CONTRACTOR

Hooker Contracting Co.

EXPERTISE

Site Planning & Design
Interior Design
Equipment Coordination
Design-Build

PROJECT DESCRIPTION

Acuform provided full design and coordination services for this highly specialized engine testing facility. The firm served as the lead consultant to ensure seamless integration of all technical systems and equipment. At the core of the building is a central test cell equipped with a dynamometer designed to evaluate the performance of large industrial engines under demanding conditions.

The project required extensive coordination among multiple engineering disciplines to successfully incorporate a complex network of diesel, water, and compressed air systems including tanks, pumps, piping, and hose assemblies. Acuform played a central role in aligning the efforts of mechanical, electrical, and structural consultants to ensure that all supporting infrastructure including several overhead cranes and high-performance ventilation systems was properly designed, located, and integrated.

With intense heat loads and high-volume air exchange rates driven by the testing process, Acuform carefully orchestrated the building systems to meet strict performance and safety requirements. This proactive and collaborative approach ensured that every component of the facility functioned as intended and supported the client's technical goals.

Acuform was able to gain a full understanding of the facility function and worked diligently to incorporate all potential building and equipment needs.

- Neal Carmichael, Director of Facilities Development