

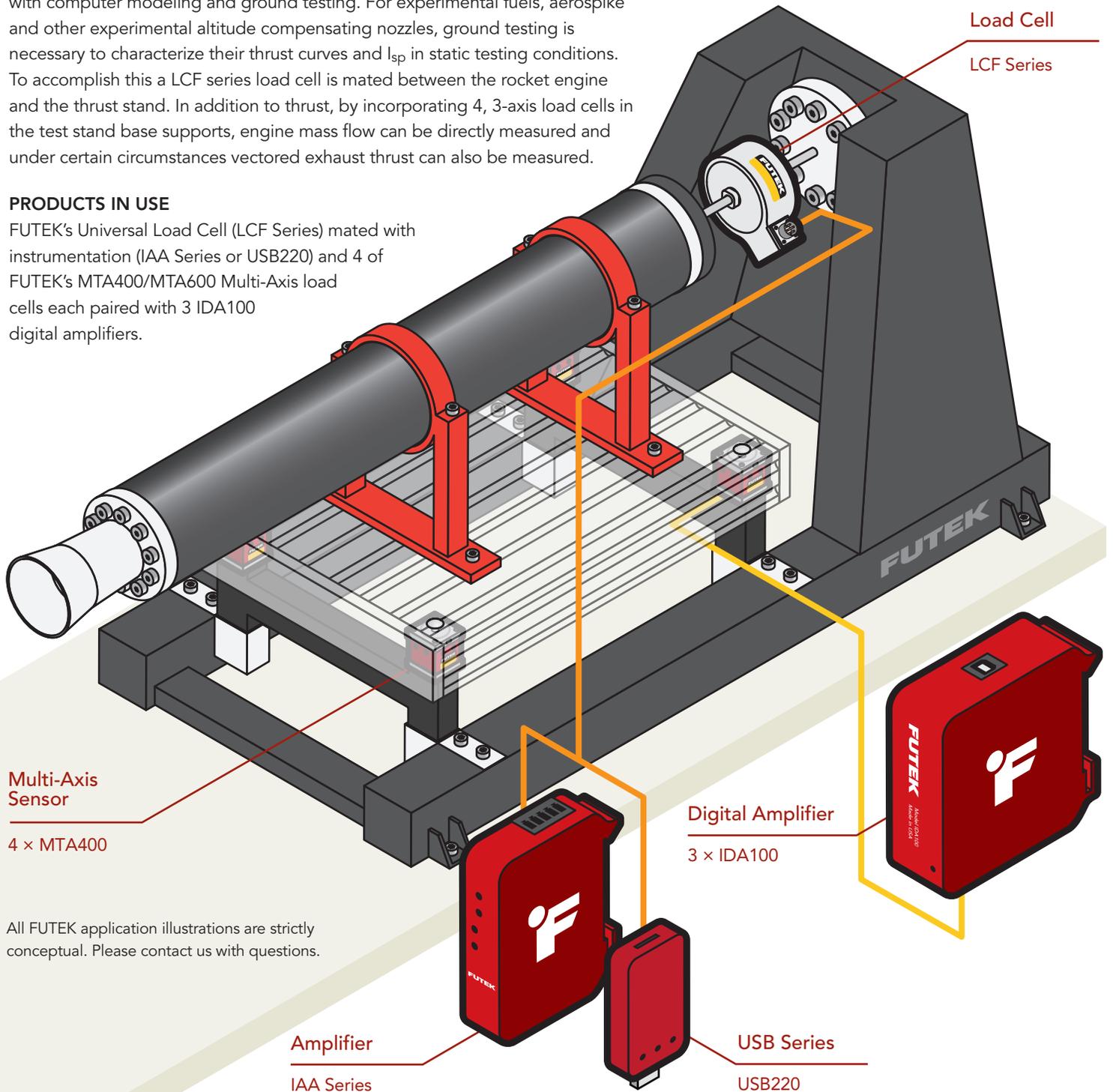


APPLICATION SUMMARY

Characterization of solid, liquid, and hybrid rocket engines is often performed with computer modeling and ground testing. For experimental fuels, aerospike and other experimental altitude compensating nozzles, ground testing is necessary to characterize their thrust curves and I_{sp} in static testing conditions. To accomplish this a LCF series load cell is mated between the rocket engine and the thrust stand. In addition to thrust, by incorporating 4, 3-axis load cells in the test stand base supports, engine mass flow can be directly measured and under certain circumstances vectored exhaust thrust can also be measured.

PRODUCTS IN USE

FUTEK's Universal Load Cell (LCF Series) mated with instrumentation (IAA Series or USB220) and 4 of FUTEK's MTA400/MTA600 Multi-Axis load cells each paired with 3 IDA100 digital amplifiers.



All FUTEK application illustrations are strictly conceptual. Please contact us with questions.