

Small Gas-Turbine Engine Test Bench

CAPABILITY SHEET - THRUST STANDS, MOBILE TEST FACILITIES & NOZZLE SETS

THE ONE IDEA

RUN IT ON THE BENCH	A small gas turbine does everything fast and hot. The bench holds it on one measuring line, runs it by logic, and records every number it makes.
BY SEQUENCE, NOT HABIT	Dry spin, light-off, idle, set points, shutdown - the same order every run. Identical runs are comparable runs, and comparison is the product.
ONE TIMELINE	Thrust, speeds, temperatures, pressures, vibration and fuel flow stamped by one clock. A run becomes a file; the file becomes the engine's curve.

THE BENCH

HOLD	The cradle rides on flexures, free along one axis only. A calibrated load cell reads true thrust; tare runs measure the line-pull out of the answer.
FEED	Fuel stored, filtered, pumped and metered; oil fed and watched with its own alarms. Both logged on the run's clock - context makes numbers honest.
RUN AND PROTECT	Interlocks on speed, temperature, vibration and oil act in milliseconds. Guarded test section, exhaust led away, fire suppression armed, cameras on.

THE FORMS

FIXED CELL	Stand, systems and control room built into the customer's building, exhaust and acoustics engineered for the site. The daily-development form.
MOBILE FACILITY	Three trailers: test section, control cabin, utilities with generated power and fire suppression. Park, level, cable - open ground becomes a station.
NOZZLE AND FIXTURE SETS	Cradles, adapters and test nozzles that fit new engine types to an existing stand - engineered and delivered as kits, the way the first bench was.

PROOF & ENGAGEMENT

DELIVERED	A mini bench with nozzles and accessories delivered to a defence research laboratory; a trailer-mounted mobile facility built for an engine-research establishment.
SUPPORTED IN SERVICE	The delivered mobile facility runs under a multi-year operation and maintenance engagement - consumables, calibration cycles and service visits included.
ENGAGEMENT	Tell us the engines, the runs you must make, and where the bench must stand, at sales@neometrixgroup.com .

DEFENCE PROGRAMMES DESK

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