Hydraulic Jack Test Rig

CAPABILITY SHEET · LIFTING IS NOT HOLDING. · A REACTION FRAME, A LOADING CYLINDER, SENSORS AND SOF

THE ONE IDEA

PRINCIPLE	Lifting is not holding.
WHY IT MATTERS	A worn seal or a seeping valve may still let a jack pump a load up, and the fault shows while the load rests on it.

THE RIG

REACTION FRAME	A stiff frame with a flat hard bed and an adjustable load point that cannot slip sideways.
LOADING CYLINDER	Applies the proof load from outside, with its own power unit and relief.
SENSORS	Load, ram position, pressure where the jack allows it, and temperature, recorded together.
SOFTWARE	Plots creep against time and writes the report against the jack's serial number.

THE METHOD

ORDER	Inspect, stroke, overload valve, proof, hold, then lower and record. The jack is looked over again after loading.
LIMITS	The proof load, hold time and allowed creep come from the maker's manual and the standard, and are not printed here.

CONFIGURATIONS

WORKSHOP	Workshop jacks: bottle, trolley and toe jacks, seated quickly one after another.
AIRCRAFT	Aircraft maintenance jacks: a tall frame for tripod and axle jacks, with the locking collar checked.
HEAVY	Heavy double-acting jacks: a supply to the jack's own ports, lift and return both held.

SCOPE

SCOPE BOUNDARY	It is the jack test rig: not a cylinder bench, not a lifting installation and not a jack.
STATUS	Neometrix engineers hydraulic jack test rigs to order, and no delivered hydraulic jack test rig is claimed.

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