

Hydraulic Jacking System

CAPABILITY SHEET · JACKS · LOCK · CONTROL · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	Oil lifts the load, and steel must hold it.
WHY IT MATTERS	Oil holds a load only while nothing leaks. A lock nut or steel packing carries it without oil.

THE SYSTEM

JACKS AND LOCK	Cylinder jacks with a plunger and saddle, and a lock nut or packing that holds the load on steel.
OIL SUPPLY	A hand, electric or air-driven pump set, or a power pack, with a manifold and a valve for each jack.
CONTROL	For several jacks, a flow divider or a sensor and valve on every jack, to keep the lift level.
RECORD	Pressure at each jack and height at each corner kept, one record for each lift.

THE METHOD

ORDER	Select, set, lift, lock, work and lower. The firm base and the mechanical hold are what a rushed job skips.
LIMITS	The capacity, stroke and pressure a lift needs come from the customer's load and are not printed here.

CONFIGURATIONS

SINGLE JACK SET	One jack with a pump set and a lock nut, made to the customer's load and height.
POWER-PACK LIFT	Several jacks on one manifold with an electric power pack, each on its own valve.
SYNCHRONISED LIFT	A sensor on every jack and valves that trim, so that several jacks lift one structure level.

STANDARDS & SCOPE

STANDARDS	Public references: ASME B30.1 for jacks and hydraulic gantries, and ISO 4413 for hydraulic fluid power.
SCOPE BOUNDARY	It is not a re-railing jack, not a bolting tool, not a plant power skid, and not a crane or lifting appliance.
STATUS	Neometrix has quoted against successive hydraulic jack and jacking system requirements, and no delivered heavy-lift hydraulic jacking system is claimed.

DEFENCE PROGRAMMES DESK

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