Engine Installation Trolley

CAPABILITY SHEET · LET THE BOLTS LINE UP. · A CRADLE, A LIFT AND FINE ADJUSTMENT ON A LOW WHEELED

THE ONE IDEA

PRINCIPLE	Let the bolts line up.
WHY IT MATTERS	While the nuts are tightened, the lift supports the engine's weight so that the mounting bolts line up, and the nuts never have to pull the engine into place.

THE TROLLEY

CRADLE	A cradle that takes the engine at the points its maker names, with locating pins at the mounts and a position that can be set over the centre of gravity.
LIFT	A lift that raises the engine smoothly and holds it without creep, by hand pump or an electric drive from a battery.
ADJUSTMENT	Slides, screws and tilts that give each of the six movements on its own, fine, and locked where they are set.
FRAME	A low, wide frame with braked castors and a steering handle, restraint at the engine mounts, and covers and plugs stowed on it.

THE METHOD

ORDER	Duty, cradle, lift, adjustment, build and prove. The adjustment and the proof are the two that a quick job skips.
LIMITS	Engine types, weights and quantities come from the customer's duty and the engine maker's documents, and are not printed here.

CONFIGURATIONS

INSTALLATION	An installation trolley: a lift, a cradle and fine adjustment in every axis, to fit the engine to the aircraft.
TRANSPORT	A transport stand: a low frame on braked castors with shock-absorbing mounts and straps, to move the engine.
POWER UNIT	A quick-change power-unit trolley: a cradle made for the engine with its fittings fitted, changed as one unit.

STANDARDS & SCOPE

STANDARDS	Public reference: ISO 12100 for the general principles of design, risk assessment and risk reduction for machinery.
SCOPE BOUNDARY	It is the engine installation trolley: not a pre-heating trolley, not a towbar or a tug, and not the lifting package of a multipurpose installation trolley.
STATUS	Neometrix engineers aircraft engine installation trolleys to order, and no delivered aircraft engine installation trolley is claimed.

DEFENCE PROGRAMMES DESK

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