Helicopter Handling Dolly

CAPABILITY SHEET · TALL ON SMALL WHEELS. · CRADLES THAT CLAMP THE SKIDS, A LIFT THAT LOCKS IN STEE

THE ONE IDEA

PRINCIPLE	Tall on small wheels.
WHY IT MATTERS	A raised helicopter has a high centre of gravity over a narrow base, so it tips when its weight line leaves the wheels, on a slope or in a turn; the track and the lift height set the limits.

THE DOLLY

FRAME AND CRADLES	A welded frame carries cradles that locate and clamp the skid tubes at the lifting points the maker states, so that the load goes into the skids and not the airframe.
LIFT AND LOCK	Hydraulic cylinders raise the cradles, driven by a hand pump or a power pack, and a mechanical lock carries the load, so that a leaking seal cannot let the helicopter down.
WHEELS AND TOWBAR	Castors and fixed wheels sized to the floor, brakes and chocks, and a towbar that steers and takes the pull of the tug.
STABILITY	The track, the lift height and the centre of gravity are worked into a limit for the slope and for the turn, and a tilt test with a test weight checks it.

THE METHOD

ORDER	Duty, frame and cradles, lift and lock, wheels and towbar, stability, build and prove. The stability proof and the lock test are the two that a quick job skips.
LIMITS	Weights, heights, speeds and slopes come from the helicopter's maker and the customer, and are not printed here.

CONFIGURATIONS

HAND-PUMPED	A hand-pumped dolly: a frame on wheels, cradles, a hand pump, a mechanical lock and a towbar for a tug.
POWERED	A powered lift dolly: a power pack and a control that must be held, with the same lock and the same lift stops.
SELF-PROPELLED	A self-propelled dolly: a drive wheel and a steering handle, so that one person can lift and move the helicopter.

SCOPE

SCOPE BOUNDARY	It is the helicopter handling dolly: not an aircraft towbar or tug, not a hydraulic jacking system and not an engine installation trolley.
STATUS	Neometrix engineers helicopter handling dollies to order, and no delivered helicopter handling dolly is claimed.

DEFENCE PROGRAMMES DESK

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