

Aircraft Towbar & Towbarless Tug

CAPABILITY SHEET - TOWBARS, ADAPTER SETS AND ELECTRIC TOWBARLESS TUGS

THE SYSTEM

WHAT	Aircraft towbars with type-specific heads and adapter sets, and electric towbarless tugs that lift the nosewheel and carry the nose weight.
OUR ROLE	Beam and shear protection, head and adapters, castors and lift, nosewheel cradle and clamping, drive and braking, steering limits, proof testing.
STATUS	Quoted across aircraft towbar and towbarless tug requirements for defence and aerospace operators; no delivered towbar or tug of the class is claimed.

THE GOVERNING IDEA

THE TOWBAR IS A FUSE	Strong enough to move the aircraft and deliberately weak enough to break first, because the alternative load path runs into the nose landing gear.
THE HEAD IS TYPE-SPECIFIC	Fitting geometry, pin, tow height and articulation differ by type. A universal towbar is universal in its beam and adapters, never in its interface.
THE TUG TRADES THE FUSE AWAY	When the nosewheel deletes the towbar and replaces a mechanical fuse with an instrumented steering limit that must be just as trustworthy.

THE MACHINE

BEAM + SHEAR PIN	A deliberate weakest link, placed where it can be replaced on the apron - because a pin nobody can change gets replaced with a stronger one.
HEAD + ADAPTERS	Machined fitting, retained pin, height adjustment and articulation, with the adapter set that lets one beam serve several aircraft types.
DRIVE + LIMITS	Electric drive, braking sized to the stop rather than to the pull, enforced steering angle, interlocks and an operator console.

DISTINCT & HONEST

NOT A RECOVERY KIT	A recovery kit moves a disabled aircraft after an incident. This moves a serviceable one every day - different event, different design driver.
WHAT IT IS JUDGED ON	Pushback is low speed and high consequence. A machine that can pull more than it can reliably halt is simply the wrong machine.
ENGAGEMENT	Send the aircraft types, their tow fittings and approved towing limits to sales@neometrixgroup.com for a compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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