

Pantograph Test Bench

CAPABILITY SHEET · TOO LIGHT ARCS, TOO HEAVY WEARS · FORCE READ AT EVERY HEIGHT · ENGINEERED TO

THE ONE IDEA

PRINCIPLE	Too light arcs, too heavy wears.
WHY IT MATTERS	The strip has to press on the wire hard enough to stay in contact and no harder, so the bench reads the force at the collector head across the whole working height, going up and coming down.

THE BENCH

GANTRY & BAR	A heavy gantry with a movable contact bar and a load cell that stand in for the wire and read the vertical force at the collector head.
MOUNT & AIR	A mounting base that matches the roof mounting of each type, and a controlled air supply for the drive of the pantograph.
DROP DEVICE	A trigger for the automatic dropping device, and timed raising, lowering and leak-hold tests of the air drive.
CONSOLE & RECORD	A test console that keeps the force against height, up and down, the times and the leak hold for every pantograph.

THE METHOD

ORDER	Specify, mount, measure, build, test and prove. Reading the force at the collector head, and measuring the friction of the bench itself, are what a quick order skips.
LIMITS	Forces, heights and times come from the standard the customer names and from the pantograph, and are not printed here.

CONFIGURATIONS

ROUTINE BENCH	Manual control of the height for the force check, the timing and the leak hold on every pantograph.
TYPE-TEST BENCH	An automatic height drive and controlled air supply that run the full cycle and log every curve.
COMBINED BENCH	Manual and automatic modes with one record for every pantograph.

STANDARDS & SCOPE

STANDARDS	Public reference: EN 50206-1 for pantographs for main line rolling stock.
SCOPE BOUNDARY	It is the pantograph test bench: not a speedometer test bench, not a traction motor test bench and not a brake test rig.
STATUS	Neometrix engineers pantograph test benches to order, and no delivered pantograph test bench is claimed.

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