Brake Cylinder Test Bench

CAPABILITY SHEET · TAKE UP THE WEAR, NOTHING ELSE. · A FIXTURE, A REACTION UNIT, A WEAR STEPPER AN

THE ONE IDEA

PRINCIPLE	Take up the wear, nothing else.
WHY IT MATTERS	A stroke is made of the gap the brake has to close, the stretch of the brake unit under load, and wear; the adjuster should take up the slack that wear opens and leave the rest alone.

THE BENCH

FIXTURE AND REACTION	A stiff frame holds the cylinder as it sits on the bogie, and a reaction unit gives it a stop and a spring, so that the cylinder meets a gap and a stretch as it would on the brake unit.
AIR AND RAMP	Clean dry air through a regulator and a ramp valve, so that the pressure rises and falls at a rate that is the same every time.
FORCE AND STROKE	A force cell in the load line and a stroke sensor on the piston record the force and the stroke together, up and down, with the leakage read in both positions.
WEAR STEPPER	A stop that moves away in steps stands in for wear, and a controller applies and releases at each step and records the length of the piston.

THE METHOD

ORDER	Duty, fixture and reaction, air and ramp, force and stroke, the adjuster, build and prove. The wear stepper and the blank run are the two that a quick job skips.
LIMITS	Pressures, forces, strokes, steps of wear and counts come from the customer's duty, and are not printed here.

CONFIGURATIONS

CYLINDER	A cylinder bench: leakage, force and stroke on one cylinder at a time.
ENDURANCE	An adjuster endurance rig: many applications at set steps of wear, with a count of the adjustments.
PRODUCTION	A production and overhaul bench: two stations and a record for every serial.

SCOPE

SCOPE BOUNDARY	It is the brake cylinder test bench: not a distributor valve test bench, not a coach and rake test rig and not a bogie test rig.
STATUS	Neometrix has quoted against successive brake cylinder and slack adjuster test bench requirements, and no delivered brake cylinder test bench is claimed.

DEFENCE PROGRAMMES DESK

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