

Rail Bogie Test Rig & Turntable

CAPABILITY SHEET - BOGIE TESTING, EN 14363 & SHOP FLOW - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Rail bogie test rigs and shop-flow machines - the equipment that proves a bogie's suspension, wheel loads and rotation behaviour before it goes back under a coach.
OUR ROLE	Neometrix builds the portals, hydraulic loading, rotation drive, fixturing, turntables and traversers, and integrates weighing, SCADA records and calibration.
STATUS	Engineered to order; quoted across bogie-testing, turntable, traverser and brake-cylinder-bench requirements. No specific delivered rig is claimed on this sheet.

THE RIGS

LOAD PORTAL	A stiff portal applies the simulated car-body weight through hydraulic cylinders - deflections, ride heights and air-spring leak-down measured under real load.
ROTATION RIG	The loaded bogie is yawed against a car-body interface and the resisting torque measured - the EN 14363 static pattern that governs curving behaviour.
BMBC BENCH	A computerised bench proves the bogie-mounted brake cylinders - stroke, pressure, timing and leakage - with recorded per-unit results.

WHY IT MATTERS

WHEEL LOADS	Wheel unloading is the derailment mechanism - calibrated pads under each wheel prove the load is equalised, and correction happens at the rig, not in service.
EN 14363	Rotational resistance must sit in a window: too high fights the curve, too low invites instability - so it is measured, not assumed, at build and overhaul.
EVERY OVERHAUL	Every parameter is logged to a per-bogie acceptance record on SCADA - the file an auditor or an investigation will ask for, retrievable years later.

DISTINCT & HONEST

SHOP FLOW TOO	The flush bogie turntable and the traverser to the 100-ton class run the shop's material flow - the same family, quoted in the same tenders.
OUR FRANCHISE	Portals, hydraulic loading, drives, fixturing and DAQ are our test-rig house; load cells, weigh-pad elements and precision instruments are bought-in.
ENGAGEMENT	Send the bogie families, the loads and the shop layout to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

PROJECTS DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com

Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India