

Dynamic Balancing Machine

CAPABILITY SHEET - HARD-BEARING, VERTICAL AND HIGH-SPEED BALANCING MACHINES - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Machines that measure and correct rotor unbalance - horizontal hard-bearing and soft-bearing beds, vertical machines, and high-speed vacuum facilities.
OUR ROLE	Beds, pedestals, drives and speed control, measuring-electronics integration, tooling and mandrels, calibration regime, retrofits, commissioning, AMC.
STATUS	Quoted across high-speed and general-purpose dynamic-balancing machine requirements; no delivered balancing machine is claimed - engineered to order.

THE GOVERNING IDEA

EVERY ROTOR LIES UNTIL IT SPINS	Unbalance leaves no resting tilt - only a rocking moment under rotation. Unbalance is a vector per plane, revealed only by spinning.
THE FORCE IS $U \times \Omega^2$	Millimetres become kilonewtons at speed - and the force turns with the shaft, reversing every stress every revolution.
THE GRADE IS THE CONTRACT	ISO 21940 sets permissible residual from mass, speed and grade - G6.3, G2.5, G1 - so smooth stops being an opinion.

THE MACHINE

HARD-BEARING	Stiff pedestals measuring force - permanently calibrated, direct readout in one run, the production and overhaul workhorse.
SOFT-BEARING + VERTICAL	Swinging pedestals measuring displacement for light rotors; vertical tooling-plate machines for impellers, fans and discs.
HIGH-SPEED FACILITY	Flexible rotors balanced at service speed, multi-plane against their modes - vacuum against windage, engineered containment, telemetry.

DISTINCT & HONEST

THE TOOLING TELLS TRUTH	Mandrels and adapters balanced, runout-controlled and managed as calibration assets - key convention stated on every certificate.
THE MACHINE PROVES ITSELF	Umar and URR demonstrated with calibration rotors on schedule - corrections stop where the metrology stops.
ENGAGEMENT	Send the rotor envelope, masses, service speeds and grades to sales@neometrixgroup.com for a compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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