

Shot Blasting & Peening System

CAPABILITY SHEET - SURFACE PREPARATION + SHOT PEENING - ENGINEERED TO ORDER

THE SYSTEM

WHAT	A shot blasting and shot peening system - one abrasive technology, two opposite jobs: clean and profile a surface to a standard, or peen a part for fatigue life.
OUR ROLE	Neometrix builds the blast room/cabinet, abrasive recovery, dust collection, handling, automation and controls; the wheels, nozzles, media and robot are bought-in.
STATUS	Engineered to order; sized to the part, the standard and the throughput. No specific delivered system is claimed on this sheet.

SURFACE PREPARATION

BLAST	Airless throw-wheels for high-throughput cleaning, or compressed-air nozzles for reach and detail; the abrasive and velocity chosen to the job.
STANDARDS	Descale, derust, strip and profile to ISO 8501 Sa 2.5-3 / SSPC - to a graded cleanliness and a defined profile, repeatably across the part.
RECOVERY	A bucket elevator and air-wash separator split reusable media from dust and broken grit and recirculate it - the heart of the system, not the blast wheel.

SHOT PEENING

WHAT IT DOES	Controlled round shot induces a compressive residual stress layer that greatly extends fatigue life and resists stress-corrosion cracking.
ALMEN	Intensity is set and verified by Almen strip arc-height, and coverage is verified, per SAE J442/J443 - a controlled metallurgical process, not cleaning.
APPLICATIONS	Gears, springs, shafts, landing gear and turbine/compressor parts - the fatigue-critical components that shot peening exists for.

DISTINCT & HONEST

FORMS	Airless wheel-blast machine, walk-in air-blast room, manual blast cabinet, or automated/robotic peening cell - sized to the part and throughput.
OUR FRANCHISE	It is a fabrication, mechanical-handling and dust-engineering problem - our competence; the blast parts and media are bought-in commodities.
ENGAGEMENT	Send the part, the standard and the throughput to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

PROJECTS DESK

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