

## Engineering & Manufacturing Projects

This is a list of some projects in the engineering and manufacturing sector for which Spectrum has provided acoustic consultant or noise consultancy services.

Client	Project	Description of Services
Aircraft Research Association	Bedford	Surveys, specifications, legal representation, expert testimony and acoustic design of large transonic wind tunnel enclosure building, compressor house and related projects
AWE	Burghfield	Noise consultancy services for manufacturing facility
BAe	FMMS machine shop, Brough	Noise control feasibility study
BAe	Weybridge Workshop facility	Noise reduction study
Bierrum International Limited	Development of in-chimney silencer	Acoustic design of silencers
Cobot Corporation	Botlek, Netherlands	Noise study for Microniser and micro-pulveriser
Jewers Doors	ExCel International Convention Centre, London	Acoustic design and testing of four high performance (Rw 45dB) and very large (up to 15m high) sliding acoustic doors for building providing 50% expansion to this prestigious venue
Kaveri Engineering Industries, India	Development	Acoustic and Engineering design of exhaust silencing for supersonic wind tunnel
Lola Cars Ltd	Huntingdon factory F1 developments	Noise impact study of proposed wind tunnel and engine test cell facility
Rainford EMC Systems	Anechoic shielded room	Acoustic design and testing
Ricardo	Wolston site semi-anechoic test room	Acoustic testing and calibration study
Rolls Royce Plc	Derby	Vibration reduction study in precision machining workshop
Rolls Royce Plc	Derby, turbine blade manufacturing	Survey of ground borne vibration at new turbine blade manufacturing facility
Royde and Tucker	New Pocket Acoustic Door development	Acoustic design development and testing to support new product.
Schindler Lift	Development	Investigation into the noise and vibration characteristics of a modular design of lift shaft
TAC Construction Ltd	Development	Noise control study of multi part cut-off machine
TEI Limited	Coryton refinery waste heat boiler acoustic resonance	Acoustic resonance study, modelling, site noise and vibration measurements. Recommendations for installation of acoustics baffles to break up standing wave acoustic resonances

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Verbatim (Eire)	Limerick IT products production facility	Noise reduction study in product manufacturing areas
Vermeer Equipment (UK) Ltd	Development	Noise control study on a trenching and rock cutting machine