

ECOLE CENTRALE DE LYON

Year	2017
Place	ECULLY - 69 - France
Sector	Research
Field	Test equipment
Type	Supersonic wind tunnel
Price	700 000 €



The LMFA department of the Lyon Ecole Centrale wanted to improve its **wind tunnel** in order to approach new **aero-acoustic tests and work at aircraft take-off and landing speeds**.

To satisfy this requirement, **dB Vib Ingénierie replaced the whole installation** from the transformer room right through to the jet nozzle. In this way all the electrical power remaining available in the building was used to supply an **800kW motor driving a two-stage centrifugal compressor**.

The duct was replaced to resist the additional pressures and retain its **acoustic function** as a noise trap. **dB Vib Ingénierie** was able **make full use of its expertise in test equipment** for the calculation and sizing aspects and in the coordination of the various specialist companies taking part.