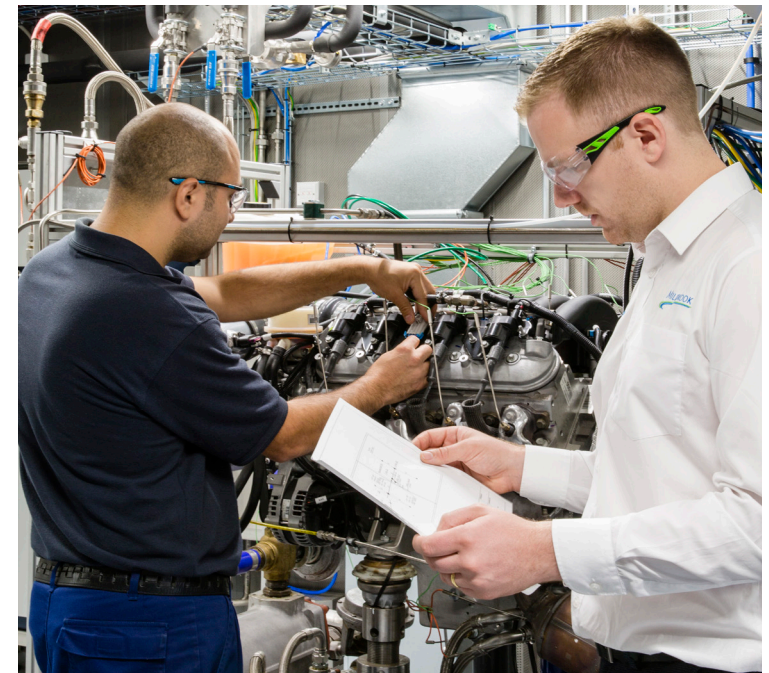


Engine Testing

Millbrook has 28 engine test cells covering a diverse range of capabilities, with latest cell automation software and hardware and up to 2.1MW dynamometers.

Capabilities include:

- Cold climatic capability, down to -30°C
- Road Load Simulation
- Vehicle model simulation on engine test bed
- Driveline durability with speeds up to 2,900rpm (300km/hr)
- Complete driveline testing for full electric, range-extender
- Full CVS emissions system cell
- Extensive emissions measurement capability
- Gigabit Combustion measurement
- Full DOE capability with real time controllers and online optimisation
- CEC fuels testing
- NVH
- Fuel blending up to 1,000L
- Bulk and special fuels capability, bio fuel and E100
- Component strip and rate for post-test inspection



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Cell	Dyno (KW/Nm)	Inertia	Dyno Operation	Operating System	Road Load Sim.	Battery Sim. 100V	Combustion Air System			Fuel			
							Temp. Control	Humidity Control	Mass Flow Measurement	Supply Lines	AVL733 (Balance)	AVL735/75 3 (Coriolis)	AVL740 Exact (Coriolis)
B1	380 / 1,600	0.3	Absorbing	Horiba STARS			•			6	•		
B2	330 / 700	0.513	High Dynamic	AVL Puma	•		•		•	6		•	
B3	400 / 2,000	0.872	Motoring 60kW	Horiba STARS			•			6	•		
B4	400 / 2,000	0.872	Motoring 60kW	Horiba STARS			•			6	•		
B5	257 / 1,200	0.618	Absorbing	Ricardo TA			•			6	•		
B6	380 / 1,600	0.3	Absorbing	Ricardo TA			•			6	•		
B7	250 / 300	0.85	Full Transient	AVL Puma			•			6		•	
B8	370 / 785	0.208	High Dynamic	AVL Puma			•			6		•	
B9	600 / 1,150	1.3	High Dynamic	AVL Puma			•	•		6			•
B10	550 / 1,200	0.356	High Dynamic	AVL Puma	•		•	•		6			•
B11	370 / 785	0.208	High Dynamic	AVL Puma	•		•	•	•	6			•
B12	250 / 530	0.85	Full Transient	AVL Puma	•		•	•	•	6			•
B13	250 / 1,400	0.618	Absorbing	Horiba STARS			•			Barrel	•		
B14	130 / 400	0.14	Absorbing	Horiba STARS			•			Barrel	•		
B15	130 / 400	0.14	Absorbing	Horiba STARS			•			Barrel	•		
B16	130 / 400	0.14	Absorbing	Horiba STARS			•			Barrel	•		
B17	523 / 1,120	1.3	Full Transient	AVL Puma			•		•	1			•
B18	2x 350 / 3,500	0.84	High Dynamic	Kratzer PA Tools	•	600A	•		•	1			•
PR1	4x 350 / 3,500	0.84	High Dynamic	Kratzer PA Tools	•	1,000A	•		•	1			•
L1	460 / 1,000	0.94	Full Transient	DSG					•	4		•	
L2	257 / 1,400	0.618	Absorbing	MTS					•	4		•	
L3	250 / 1,200	0.46	Absorbing	DSG					•	4		•	
L4	380 / 1,600	0.3	Absorbing	DSG					•	4		•	
L5	400 / 9,000	0.95	Full Transient	DSG					•	4		•	
L6	230 / 750	0.53	Absorbing	Taylor					•	4		•	
L9	580 / 1,800	0.9	Absorbing	DSG					•	4		•	
L12	256 / 1,200	0.618	Absorbing	DSG					•	4		•	
L13	2,100 / 15,000	3.9	Absorbing	MTS					•	3		•	
L14	2x 400 / 2,000	2	Absorbing	DSG	•				•	4		•	