

Self Powered Bogie

COST EFFECTIVE HYBRID SOLUTION Retrofit or New

- Passenger / Freight Friendly **Modular Design**
- Axle Mount, Gearless, Air Cooled, PM Motor
- Easy Retrofit Isolated & Autonomous Traction

Environment

- Reduced CO2e
- Zero Emissions in Stations
- Last Mile Operation
- Enable Running on Discontinuous OLE

- Significant Fuel / Energy Saving
- Reduced Brake Wear
- **Lower** Maintenance Costs
- Less Locomotives / Traction
- Short Financial ROI

Performance

- Increased Acceleration
- Reduced Journey times
- Exceptional on-demand Power, TE & BE
- Increased Range

The demonstrator project was partly funded by SBRI Innovate UK, as part of the "FOAK 2022 Low emissions and a greener railway' competition"

The Class 153 bogie used for the demonstrator vehicle was kindly loaned by Angel Trains The live Demonstration Event is scheduled at Great Central Railway in Q1 2026





	Technical (Prototype Equipment Per Bogie)
Peak Power	240kW
Peak Tractive / Braking Effort	12kN (840mm Wheel Dia.)
Max Duty Cycle	25%
Peak Motor Efficiency	94%
Operating Speed	0 - 100 mph
Motor Cooling	Free Air
Energy (Usable)	27kWh
System Mass	1,100kg



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