

Class 323



Train Operator/s

London Midland, Northern

Vehicle Qty	117
Consist	LM (22 x 3-Car) Northern (17 x 3-Car)
Traction Type or Power Supply Type	25kV ac OHL, 8 x HOLEC DMKT 52/24 a synchronous of 146kW
Max Speed	90mph

These units were built in 1992-1993 as Regional Railways' answer to the Networker. They are 3 car units, but each vehicle is just over 23 metres long, so the unit length is almost 70 metres, only 10 metres shorter than a 4-car Networker. Two GTO-Thyristor drive packages drive four Holec DMKT 52/24 motors, each delivering 146 kW. Good acceleration and top speed give the ability to operate commuter and long distance services, although currently 3+2 seating is fitted for high density working. The centre vehicle is unpowered, being used for the transformer, pantograph, control equipment and the retention toilet. 3 units in the Northern fleet have some seats removed for increased luggage space, these being used on airport services. Construction is all aluminium extrusions with SRP bogies, very similar to the series 3 bogies used in large numbers on UK railways.