Classes 465 and 466 Networker electric multiple unit trains for British Rail



The Class 465 trains are the first of a family of new trains, which will be used throughout Network SouthEast.

Metro-Cammell's first order for Networkers covered 50 (Class 465) four-car trains. This was followed by an order for 43 (Class 466) two-car trains. Both the classes are designed for inner suburban service south of the Thames.

Most of the electrical and mechanical equipment on the Class 466 trains is identical to that on the Class 465 — the main difference being the additional cab to enable the two-car units to operate independently, allowing for greater operating flexibility, and thus easing overcrowding problems. Auto-couplers aid in rapid marshalling of train formations.

The bodyshells are welded from lightweight aluminium extrusions with two pairs of wide-opening, sliding plug-doors on each side of the cars. Comfortable seating and attractive decor combine to provide a pleasant comfortable travelling environment.

Propulsion power is by GTO controlled, three-phase asynchronous traction motors. Regenerative braking, coupled with the low body-weight, will give significant savings in energy consumption, high reliability and low maintenance requirements.



TRANSPORT

BRITISH RAIL

Data Track gauge Service Traction supply

Number of vehicles per unit Capacity seats per unit Unit length over couplers

Vehicle length

power car trailer car vehicle width height Bodyshell Doors - per car (per side) - width **Bogie centres** wheelbase Wheel diameter Primary suspension Secondary suspension Number of motors and type Traction control

Maximum speed Tare weight Braking system

1,435mm inner suburban 750V dc third rail

Cla
2
168
41,0

ass 466 8 ,600mm

20,800mm 20.150mm 2,800mm 3.760mm aluminium extrusions 2 1,280mm 14,173mm 2.600mm 840mm rubber chevron pneumatic 4 type G432 motors per power car GTO controlled, thyristor inverters supplying variable frequency three-phase 120km/h 4-car unit 135t 2-car unit 71t blended regenerative/rheostatic/ pneumatic with slide protection. mechanical braking is by wheel mounted discs.

About the GEC ALSTHOM Transport Division

Metro-Cammell Limited and GEC ALSTHOM Traction Limited are both members of the GEC ALSTHOM Transport Division. The Division is one of the largest suppliers of railway rolling stock, with an annual turnover of £1,000 million and nearly 18,000 employees at factories in six countries. GEC ALSTHOM supplies the world's widest range of electric and diesel locomotives and passenger rolling stock (high speed main-line, suburban, transit, light rail and people-movers). It has been supplying railway rolling stock continuously since 1823 - longer than any other manufacturer in the world. Whilst the majority of its production is in its own factories, technology transfer agreements permit local manufacture.



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