

# Outer Suburban Rail Car (OSCAR)



## Double deck electric multiple unit Enhanced passenger safety and comfort

### THE OSCAR IS ANOTHER EXAMPLE OF UGL'S SUCCESSFUL 30-YEAR PARTNERSHIP WITH THE NSW GOVERNMENT

The Oscar is designed and manufactured by UGL, using Mitsubishi Electric's traction equipment.

- The Oscar combines excellent accessibility and comfort, exceptional capacity, safety, security and visibility throughout the train
- The features include the highest standards of crashworthiness, CCTV security cameras in every carriage, emergency passenger intercom systems, reversible seating, fully ducted air-conditioning, wide vestibules, modern spacious toilet facilities and low noise double deck cars
- Winner of the Project Management Achievement Award 2011 from the Australian Institute of Project Management

## OVERVIEW

The design heritage of the train reflects the intimate knowledge of the Sydney metropolitan rail network that UGL and Mitsubishi Electric have developed over the years.

The trains consist of four vehicles each, comprising two control trailer cars and two motor cars - one of which has toilet facilities. Running as four or eight car-sets as determined by NSW Trains, 220 Oscar cars were built. The strong focus on the Oscar interior design means passenger safety, security and comfort have been placed at the top of the agenda. Oscar features include reversible seating, fully ducted air-conditioning, and modern toilet facilities with disabled access, an emergency passenger intercom system and advanced passenger information displays.

The Oscar is currently the only passenger rail vehicle in NSW that has demonstrated that it meets NSW Trains stringent 55km/hr crashworthiness test standards.

**MODEL:** Electric Multiple Unit (EMU)

**CLIENT:** NSW Trains

**TECHNOLOGY PARTNER:** Mitsubishi Electric

**GAUGE:** 1,435 mm



**OUTER SUBURBAN RAIL CAR**



**FEATURES**

- Air-conditioning
- 1 x wheelchair accessible unisex toilet per 4 car set
- Hearing augmentation facilities
- Capable of nightsafe operation
- Crew intercom
- Reversible walkover style seating
- Passenger emergency intercom
- Internal public address
- Digital voice annunciation
- Video surveillance of passenger areas
- External and internal destination indicators



**SPECIFICATIONS**

Maximum Operating Speed	130 km/h upgradeable to 160 km/h
Power Supply	1500 V DC
Propulsion System	IGBT Converter, AC Traction
Traction Equipment	Mitsubishi Electric
Traction Motors	8 x 200 Kw / 4 car set
Bogie	UGL
Bogie Wheel Base	2,400 mm
Distance between bogie centres	13,850 mm
Brakes	Faiveley
Number of doors	2 / side / car
Length	81,550 mm/ 4 car set
Height	4,386 mm
Width	3,034 mm
Floor Height	1,270 mm ARL
Train Composition	4 cars permanently coupled
Tare Mass	204.76 Tonnes / 4 car set
Passenger Capacity	1,014 passengers / 4 car set 432 seats / 4 car set



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