



**Train set**  
(under Licence of Siemens Co.)

## Description

In 2001, RAJA passenger trains Co. ordered 20 Diesel-Hydraulic Intercity multiple units from Siemens Austria, initially for operation on the 1,000-km-long route between Tehran and Mashad. In 2002, Wagon Pars Co. as a subcontractor of Siemens Co. and under technical supervision of this company started to manufacture 15 sets of Paradise train sets which have 4 cars.

The steel construction motor cars are equipped with under floor drive components and are designed for high ride comfort with full air-conditioning and high speeds (up to 160kph) on non electrified routes. The four cars of the DH4-1 trains are semi-permanently coupled at their ends. The motor car concept allows the automatic coupling of several trains of the same length up to a total length of 12 cars.

The train offers very high operating performance and high-quality interior furnishings to passengers, including audio and video entertainment, an on-board galley for catering, large legroom and adjustable seat backs, tilt tables, seat back tables, European- and oriental- style toilets, wheelchair space, a fully air-conditioned passenger space and an independent air-conditioning system for the driver's cab.



## Car Arrangement

	A-Car	C-Car	B-Car
Driver's cab and seat for train chief	Yes	---	Yes
Number of seats	55	70	57
Wheelchair space	---	---	2
Oriental style toilet	1	2	---
European style toilet	---	---	1
Luggage storage area	Yes	Yes	Yes
Galley for onboard service	Yes	---	Yes
Fixed foldable tables	---	---	Yes
Seat back tables	Yes	Yes	---



## Technical parameter

- Track gauge 1435 mm
- Passenger Capacity 252 seats
- Maximum speed 160
- Overall Vehicle Length 105.60 m
- Weight 240 ton (empty)
- Total Diesel Engines Power 4 588 kw diesel engine (MAN)
- 4 stroke diesel with turbo charger and intercooling app. 0.79 m/s<sup>2</sup>
- Maximum Acceleration Hydraulic turbo gear (Voith)
- Power Transmission SF 5000DD
- Bogie 2'B'+B'2'+B'2'+B'2'
- Axle Arrangement 18.5 t
- Maximum Axle Load Steel spring/ link
- Primary spring type Air bellow
- Secondary spring type Electro pneumatic friction brake with wheel disk
- Brake 3 AC 400 V, DC 24 V
- Auxiliary power system SIBAS 32®
- Train Control