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.

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
Maximum Acceleration app. 0.79 m/s²
Power Transmission Hydraulic turbo gear (Voith)
Bogie SF 5000DD
Maximum Axle Load 18.5 t
Primary spring type Steel spring/ link
Secondary spring type Air bellow
Brake Electro pneumatic friction brake with wheel disk
Auxiliary power system 3 AC 400 V, DC 24 V
Train Control SIBAS 32®

<table>
<thead>
<tr>
<th>Car Arrangement</th>
<th>A-Car</th>
<th>C-Car</th>
<th>B-Car</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver’s cab and seat for train chief</td>
<td>Yes</td>
<td>---</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of seats</td>
<td>55</td>
<td>70</td>
<td>57</td>
</tr>
<tr>
<td>Wheelchair space</td>
<td>---</td>
<td>---</td>
<td>2</td>
</tr>
<tr>
<td>Oriental style toilet</td>
<td>1</td>
<td>2</td>
<td>---</td>
</tr>
<tr>
<td>European style toilet</td>
<td>---</td>
<td>---</td>
<td>1</td>
</tr>
<tr>
<td>Luggage storage area</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Galley for onboard service</td>
<td>Yes</td>
<td>---</td>
<td>Yes</td>
</tr>
<tr>
<td>Fixed foldable tables</td>
<td>---</td>
<td>---</td>
<td>Yes</td>
</tr>
<tr>
<td>Seat back tables</td>
<td>Yes</td>
<td>Yes</td>
<td>---</td>
</tr>
</tbody>
</table>

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