

VEHICLE TITLE UIC FREIGHT WAGON (LADEN)

MASSES & INERTIAS

Number of bogies	-
Number of axles (per wagon)	2
Body mass	41.0 Mg
Body roll inertia	35.0 Mgm ²
Body pitch inertia	500.0 Mgm ²
Body yaw inertia	500.0 Mgm ²
Bogie mass	- Mg
Bogie roll inertia	- Mgm ²
Bogie pitch inertia	- Mgm ²
Bogie yaw inertia	- Mgm ²
Wheelset mass	2.0 Mg
Wheelset roll and yaw inertia	1.7 Mgm ²

DIMENSIONS

Semi pivot spacing	- m
Semi wheelbase	4.5 m
Wheel radius	0.46 m
Body centre of gravity height above rail level	1.5 m
Bogie centre of gravity height above rail level	- m

PRIMARY SUSPENSION

Lateral stiffness (per axle)	1.5 MN/m
Vertical stiffness (per axle)	2.6 MN/m
Yaw stiffness (per axle)	10.0 MNm/r
Lateral damper rate (per axle)	0.034 MNs/m
Vertical damper rate (per axle)	- MNs/m
Vertical friction breakout (per axle)	3.0 KN
Height above rail level of lateral springs	0.46 m
Lateral semi spacing of vertical springs	1.0 m
Height above rail level of lateral dampers	0.46 m
Lateral semi spacing of vertical dampers	- m
Lateral semi spacing of vertical friction	1.0 m