

VEHICLE TITLE FS E444 LOCOMOTIVE

MASSES & INERTIAS

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|-------------------------------|-------------------------|
| Number of bogies | 2 |
| Number of axles (per bogie) | 2 |
| Body mass | 64.6 Mg |
| Body roll inertia | 53.366 Mgm ² |
| Body pitch inertia | 1643.0 Mgm ² |
| Body yaw inertia | 1630.0 Mgm ² |
| Bogie mass | 4.0 Mg |
| Bogie roll inertia | 3.115 Mgm ² |
| Bogie pitch inertia | 5.843 Mgm ² |
| Bogie yaw inertia | 8.107 Mgm ² |
| Wheelset mass | 2.1 Mg |
| Wheelset roll and yaw inertia | 1.164 Mgm ² |

DIMENSIONS

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|---|--------|
| Semi pivot spacing | 4.5 m |
| Semi wheelbase | 1.3 m |
| Wheel radius | 0.55 m |
| Body centre of gravity height above rail level | 1.65 m |
| Bogie centre of gravity height above rail level | 0.64 m |

PRIMARY SUSPENSION

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|--|------------|
| Lateral stiffness (per axle) | 12.0 MN/m |
| Vertical stiffness (per axle) | 4.0 MN/m |
| Yaw stiffness (per axle) | 15.4 MNm/r |
| Lateral damper rate (per axle) | - MNs/m |
| Vertical damper rate (per axle) | 0.03 MNs/m |
| Vertical friction breakout (per axle) | - KN |
| Height above rail level of lateral springs | 0.55 m |
| Lateral semi spacing of vertical springs | 1.03 m |
| Height above rail level of lateral dampers | - m |
| Lateral semi spacing of vertical dampers | 1.2 m |
| Lateral semi spacing of vertical friction | - m |