

FLEXIBILITY FOR MAINTENANCE AND OVERHAULS

Technical data

- 2 load capacity ranges: 9.8 t to 28.2 t and 16.8 t kg to 35.0 t
- Axle load max. 20 t
- Track curving min. 135 m at 20 m distance of bogies
- Wheel diameter: 710 / 680 mm
- Running safety according to ORE B55 RP8 and EN14363
- Weight 3250 kg
- Dimensions (length/width/height): 2.882 mm / 2.346 mm / 90 mm
- Support height below adapters approx. 760-820 mm to TOR, dependend on load on bogie

Available auxiliary bolster:

- Siemens Desiro Double Deck (SBB DTZ), motor and trailer bogie
- Stadler GTW, motor and trailer bogie
- Stadler Flirt, motor bogie
- Stadler KISS, motor and trailer bogie
- ETR 610
- ICN
- Sleeping car class 171.X und 172.X (City NightLine)
- IC 2000
- others

Additional adapters for other vehicles can be developed on demand

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Flexibility at the Workshop for Maintenance and Revisions

Challenge

In vehicle maintenance, carbody and bogie have to be separated for some maintenance and revision work. To be able to move the carbody within the workshop or between different buildings, a workshop bogie is necessary. Having for this a fully operational spare bogie available is very costly and often not possible, thus a simple solution is required. The focus of the workshop bogie rests on safety and safe operation as well as on flexibility. Many conventional workshop bogies can only fulfill one of these aspects or have significant limitations.

Solution

The universal Molinari Workshop Bogie can be used thanks to a modular adapter with most carbodies of locomotives, coaches and wagons.

In the complete load range bogies are safe against derailment according ORE B55 RP8 and EN 14363.

The workshop bogies are modular:

- Standard wheelset and journal bearings
- Suspension (hard or soft)
- Bogie frame with pivot plate
- Interchangeable, vehicle specific adapter plate or universal bolster

Other important operational features are:

- Universal coupling rod for shunting via draft gear, shunting coupler etc.
- Removable protective covers for use in shotblasting and painting booth
- Brackets for brake shoes

Flexibility in the workshop logistics is a key feature for the optimal use of space and resources in the vehicle maintenance and revisions. With the innovative approach of Molinari almost all vehicles can be moved in the workshop area with one and the same type of workshop bogie. For shotblasting and painting no removal of the bogie is necessary:

- Flexible use throughout the whole workshop for the complete fleet
- Optimal safety and avoidance of damages by using custom-designed adapters
- Shunting and transfer between workshops possible on all standard tracks
- Usable in shotblasting and painting booths
- Future vehicle generations can use the same workshop bogie
- Low LCC cost through using standard components

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