



ZF Tag Axle Systems – Faster and Easier Through the Traffic

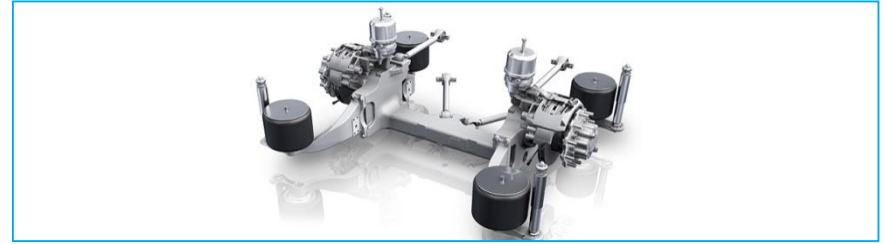
Referent | Abteilung | Division



The Most Important Products

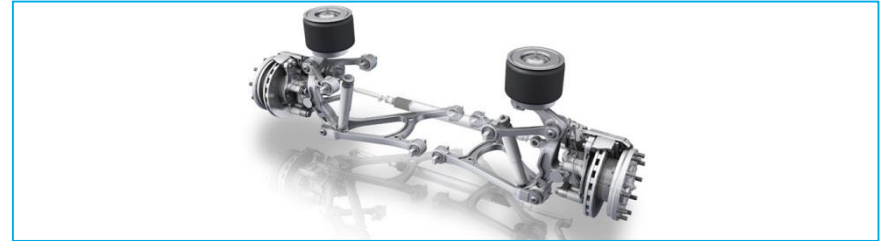
AVN 132

Vehicle widths: 2,300 mm – 2,600 mm



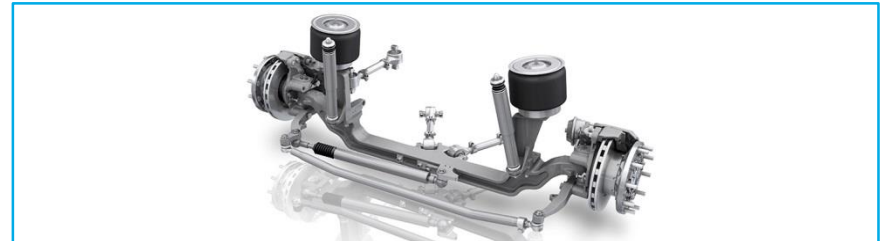
RL 82 EC tag axle

Vehicle widths: 2,500 – 2,600 mm



RL 75 A tag axle

Vehicle widths: 2,500 mm – 2,600 mm



Technical Data

AVN 132

Stepless go-arounds with the market leader in low-floor city buses

	AVN 132 Non-driven portal axle
Vehicle width [mm]	2,300 – 2,600
Max. axle load [kg]	11,500
Max. output torque [Nm]	-
Max. engine power [kW]	-
Lateral collection angle ¹⁾	-
Ratios	-
Tire size ¹⁾	275/70 R22.5 twin tires
Rim size ¹⁾	22.5" x 8.25"
Disc brake	Knorr SB 7000
Axle weight from	589 ²⁾
Axle system weight [kg]	799 ³⁾

1) Standard design

2) Axle total weight depends on customer specification

3) Weight of axle with disk brake, incl. spring carriers, longitudinal rods, v-rods, air springs, and shock absorbers



Technical Data

RL 82 EC Tag Axle

Comfort and maneuverability with the ZF independent suspension

	RL 82 EC Tag axle
Vehicle width [mm]	2,500 – 2,600
Max. axle load [kg]	8,200
Spring travel [mm]	+ 90 / -100
Steering angle	Upon request
Tire size (standard)	275/70 R22.5 295/80 R22.5
Rim size (standard)	22.5" x 8.25"
Disc brake	Knorr SN7
Axle weight [kg] from	482*

* Axle total weight depends on customer specification



Technical Data

RL 75 A Tag Axle

ZF solid axles – Cost-effectiveness in perfection

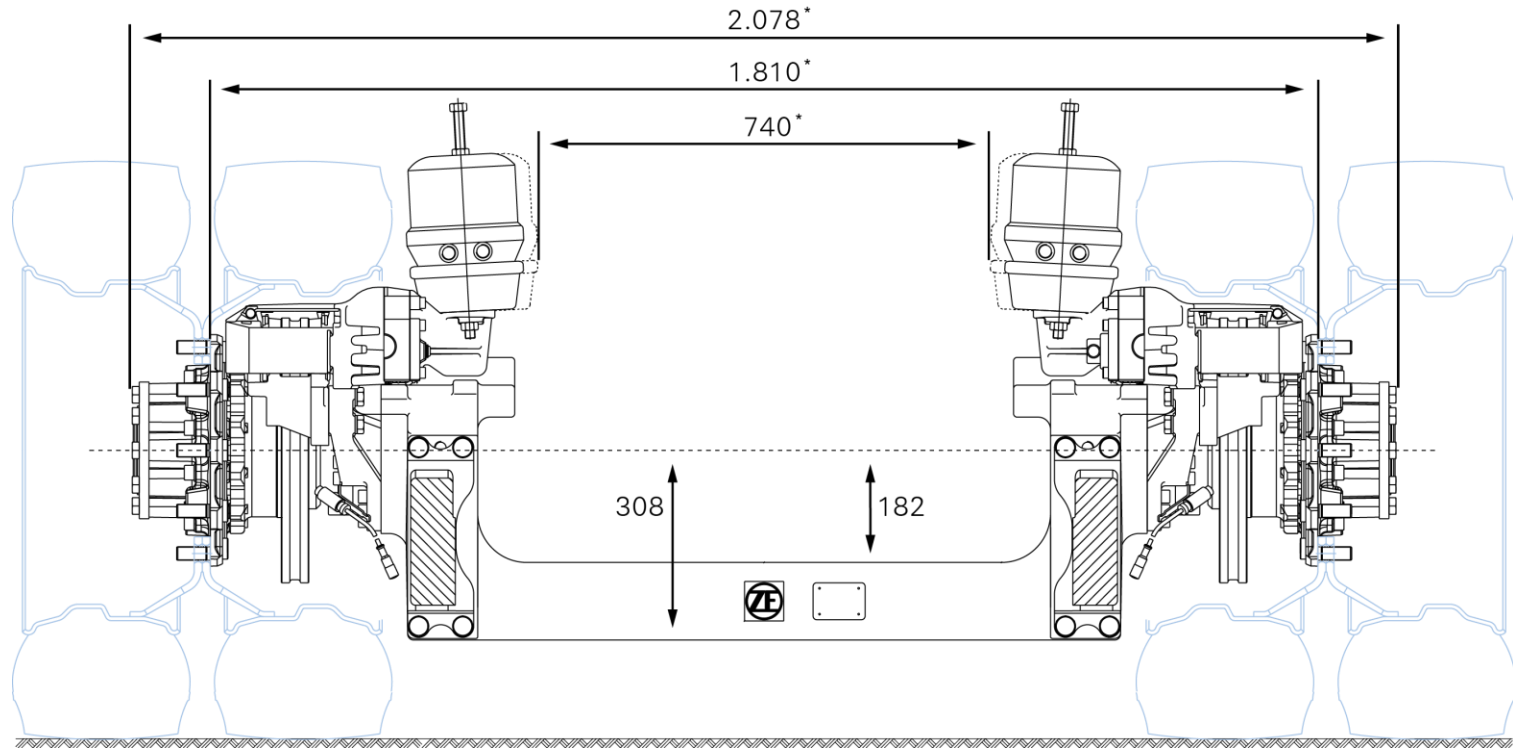
	RL 75 A Tag axle
Vehicle width [mm]	2,500 – 2,600
Max. axle load [kg]	7,500
Spring travel [mm]	± 90
Steering angle	Upon request
Tire size (standard)	275/70 R22.5 295/80 R22.5
Rim size (standard)	22.5" x 8.25"
Disc brake	Knorr SN7
Axle weight [kg] from	527*

* Axle total weight depends on customer specification



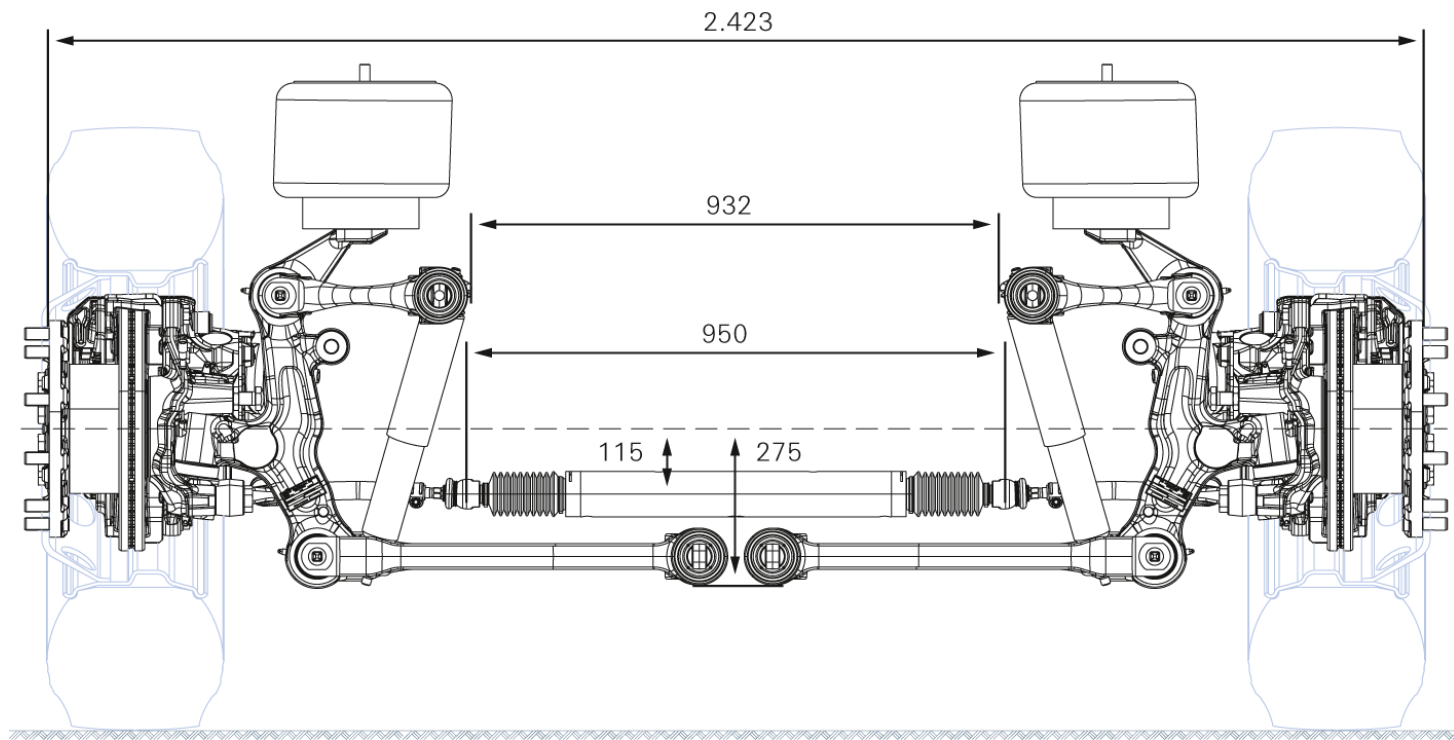
Installation Drawing

AVN 132



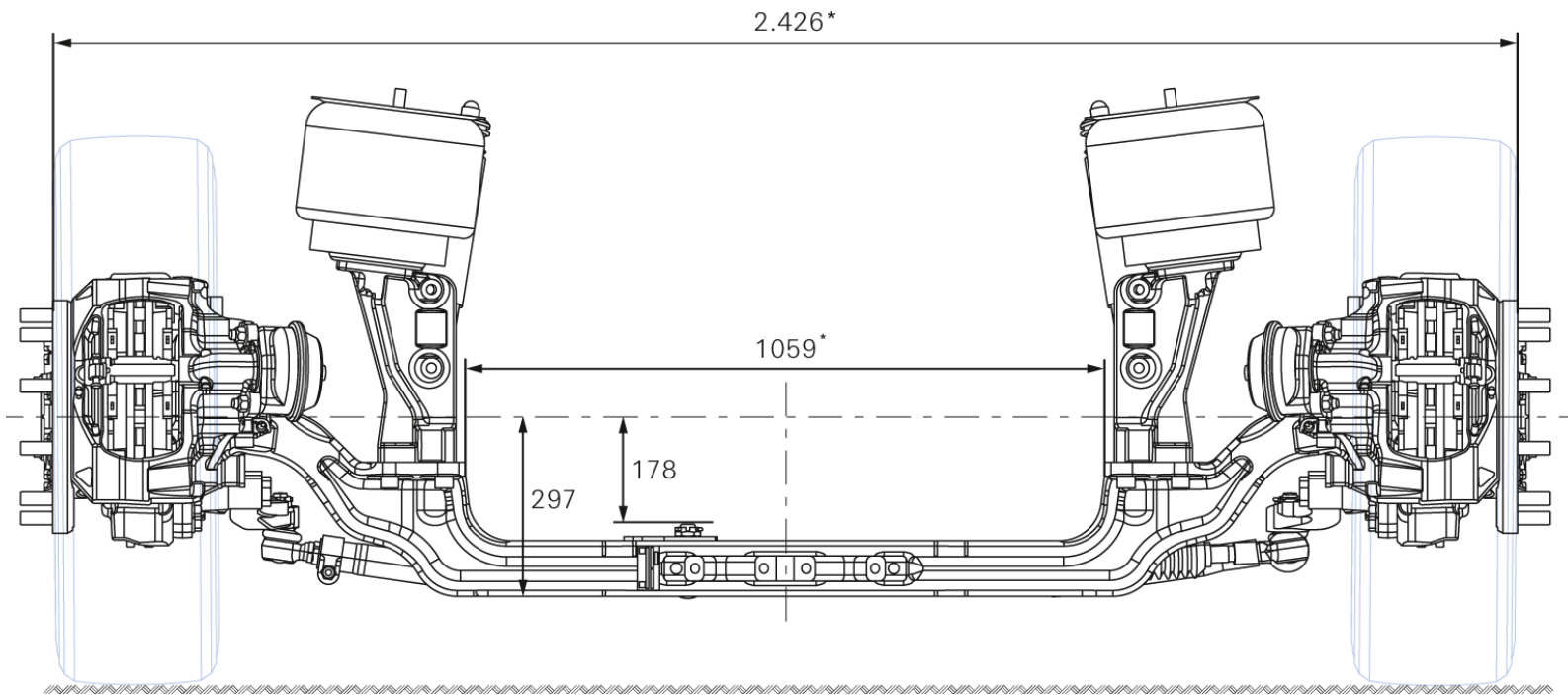
Installation Drawing

RL 82 EC Tag Axle



Installation Drawing

RL 75 A Tag Axle



The Highlights

Bus tag axle systems – Faster and easier through the traffic

- Comfortable, step-free entry even in the rear (third door)
- Increased freedom of movement in the center aisle
- Low-floor design for articulated buses as well
- Weight-optimized (without forgoing service life)
- Superb driving comfort
- Easy maneuverability and reduced tire wear on tag axles with active design



ZF Tag Axle System

RL 82 EC Tag Axle

Advantages for customers and manufacturers:

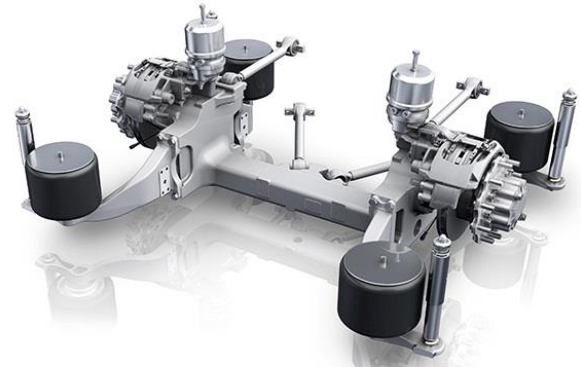
- Independent front axle concept applicable as tag axle for vehicles > 12 m
- Improved vehicle handling
- Considerable increase in tire, steering and driving comfort compared to solid axles
- Wheel head identical to the RL 82 EC front axle model range
- Excellent roll stiffness, ensuring reduced body roll



ZF Tag Axle System AVN 132

Advantages for customers and manufacturers:

- Non-driven portal axle
- Modification for special city bus application in low-floor articulated trolleybuses
- Wheel heads and suspension identical to AV 133 low-floor portal axle
- Weight-optimized design
- Also available as complete system with suspension



ZF Tag Axle System

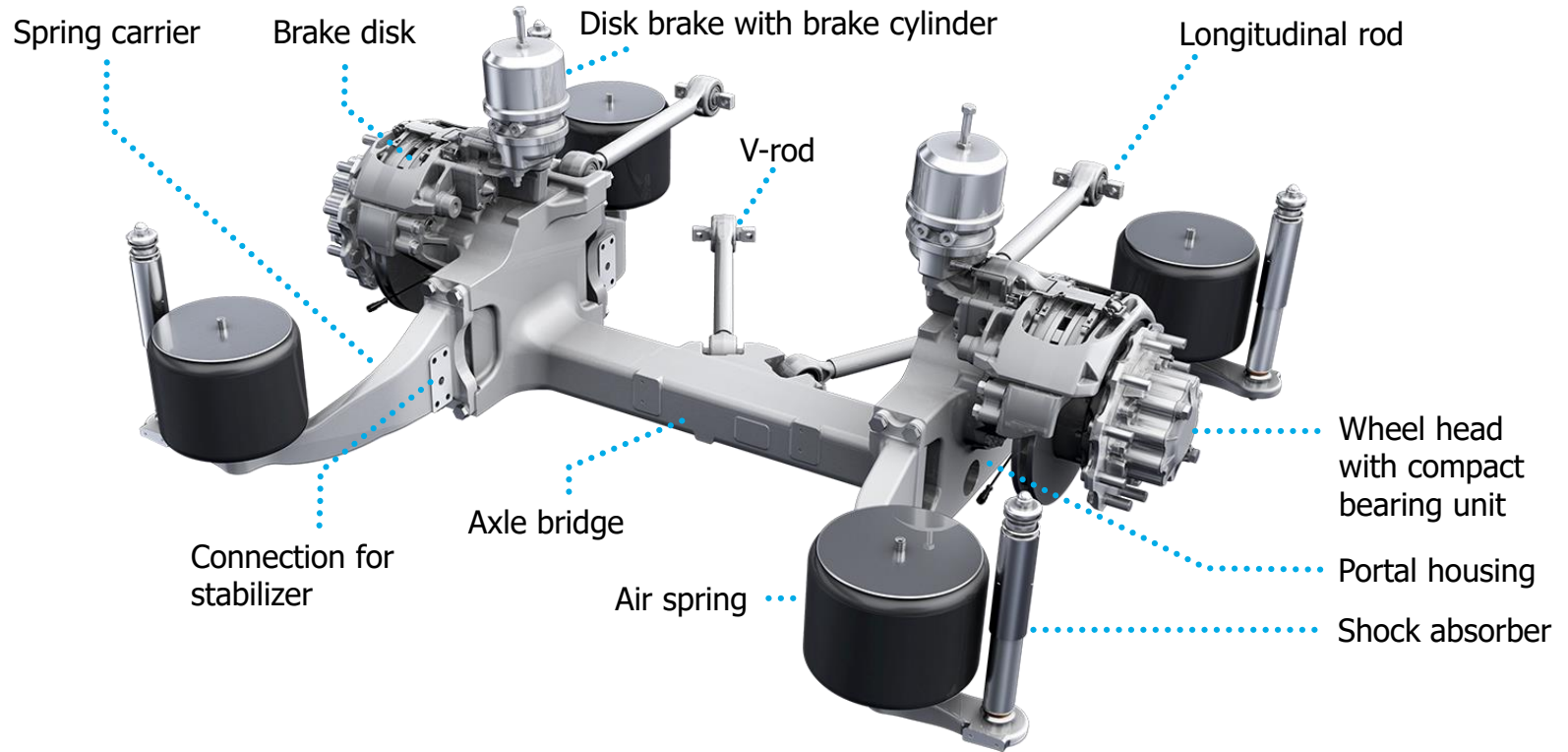
RL 75 A Tag Axle

Advantages for customers and manufacturers:

- Axle bridge design allows for a low floor all the way to the rear of the vehicle (space, e.g., for the propshaft)
- Ideal utilization of the passenger compartment
- Wheel head identical to that of the RL 75 A front axle system
- Modular design accounts for the individual installation situation in the vehicle



AVN 132 Tag Axle Axle Structure

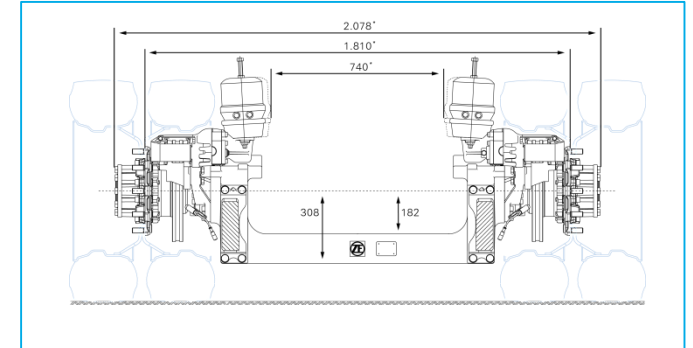
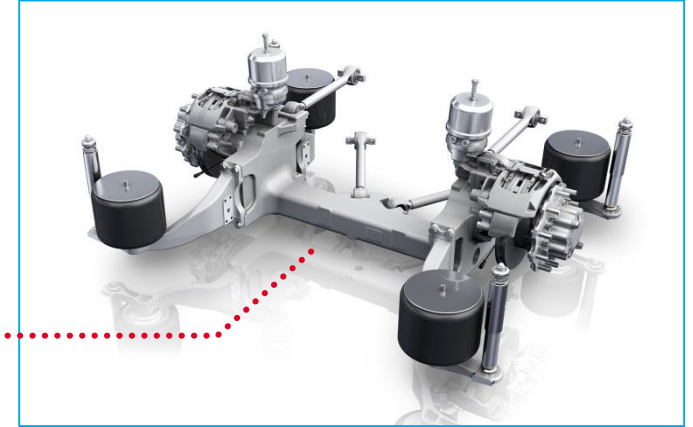


Axle Systems in City Buses

AVN 132

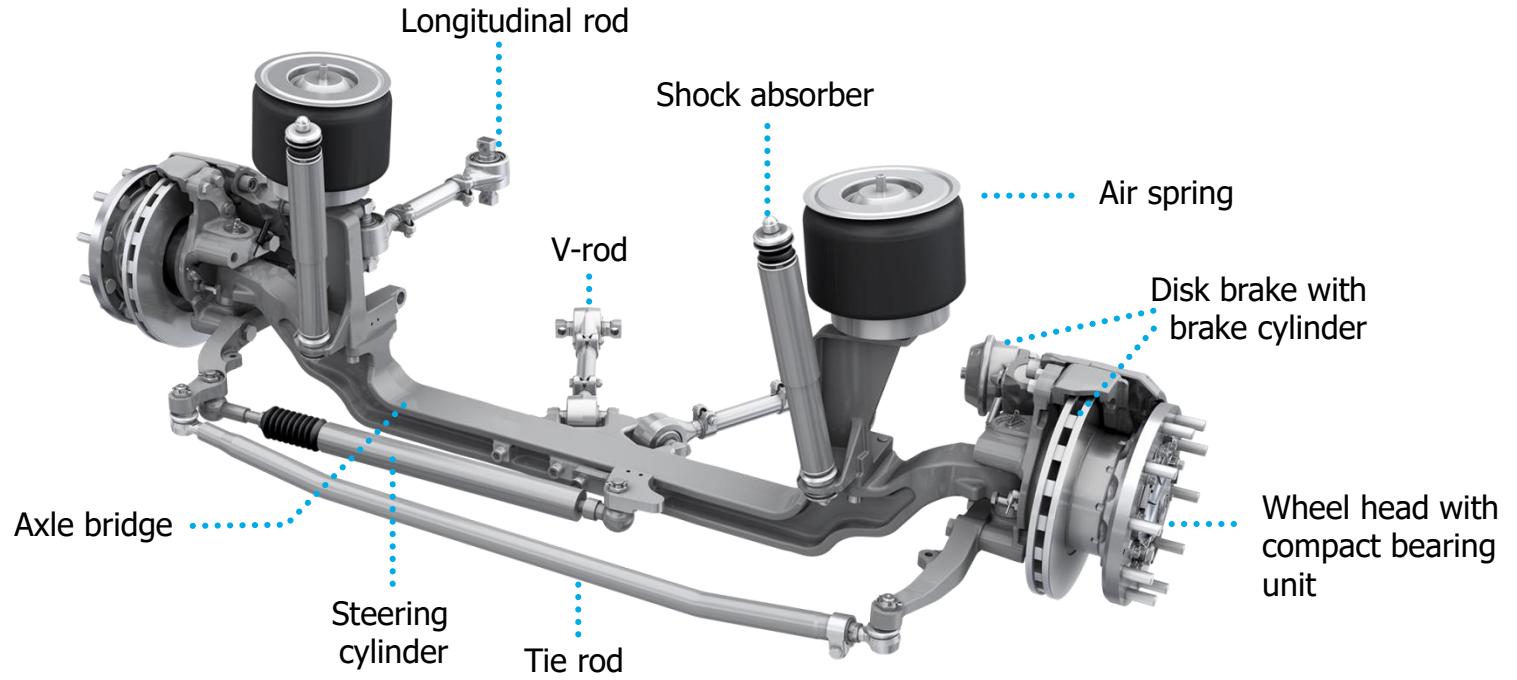
- Non-driven portal axle
- Can be used for mid- and rear-engine layouts
- Wheel head identical to that of AV 132
- Uniform maintenance

**Axle without
Drive components**



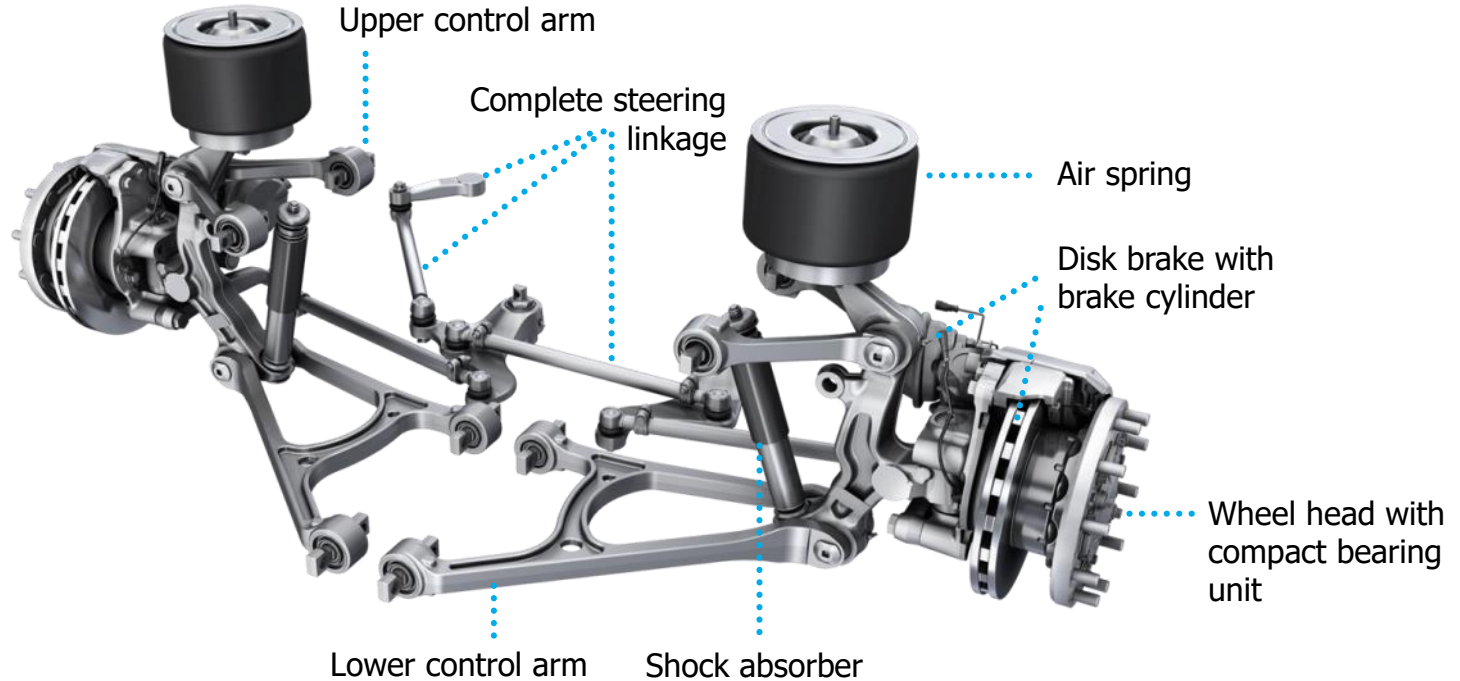
RL 75 A Tag Axle System

Axle Structure



RL 82 EC Tag Axle System

Axle Structure



Axle Systems in City Buses

RL 75 A / RL 82 EC Tag Axles

- Active or passive rear axle steering
- "Passive design" with steering dampers and pneumatically actuated locking cylinders
- Wheel heads identical to those of the respective front axles
- Installation dimensions identical to those of the respective front axles

