

# SUSPENSION COMPONENTS FOR MOTORHOMES AND VANS



# AT A GLANCE

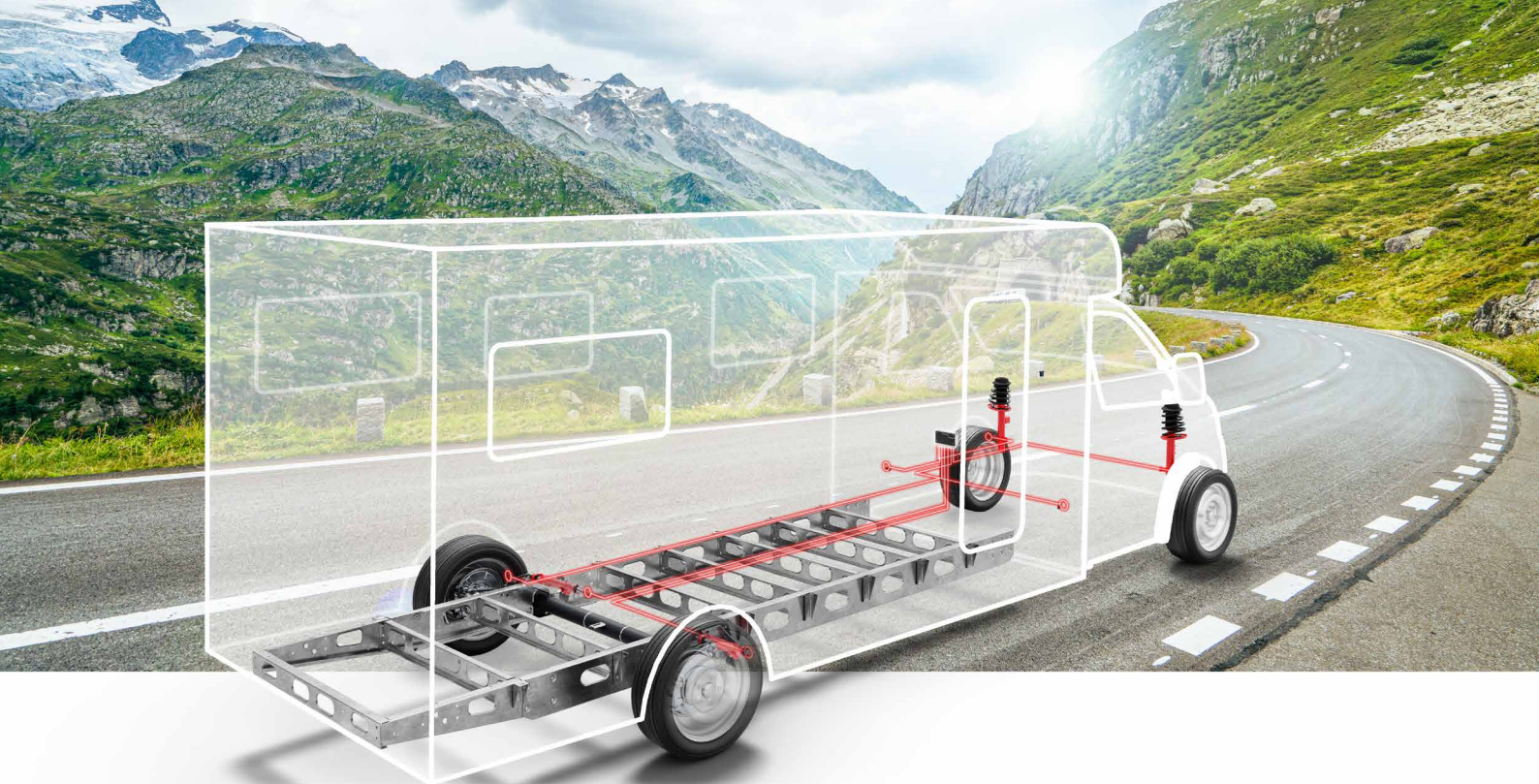
## Suspension components

PRODUCT	FIAT DUCATO PEUGEOT BOXER CITROËN JUMPER (from YoM 2006)		MERCEDES-BENZ SPRINTER (from YoM 2018)	
	Van	Motorhome	Van	Motorhome
ACS	•	•	—	—
<b>Vehicles with AL-KO AMC / VARIO SPACE chassis</b>				
Comfort Drive	—	—	—	• (2-axle vehicles)
AirPremium X2	—	•	—	•
AirPremium X4	—	•	—	•
AirPlus	—	•	—	—

Designation	Year of manufacture	Vehicle variant	Perm. front axle load	Part no.
ACS for vans based on Fiat, Peugeot and Citroen Type X250	from 2006	33 Light	1,750 kg	1710622
ACS for vans based on Fiat, Peugeot and Citroen Type X250	from 2006	35 Light	1,850 kg	1710623
ACS for vans based on Fiat, Peugeot and Citroen Type X250	from 2006	33 Light	1,750 kg	1710249*
ACS for vans based on Fiat, Peugeot and Citroen Type X250	from 2006	35 Light	1,850 kg	1710250*

Chassis manufacturer	Year of manufacture	Variant	Recom. front axle load range	Part no.
ACS for mobile homes with AL-KO Chassis	from 2006	Light	1,600 kg – 1,850 kg	1710620
		Heavy	1,800 kg – 2,100 kg	1710621
ACS for mobile homes with AL-KO Chassis	from 2006	Light	1,600 kg – 1,850 kg	1710038*
		Heavy	1,800 kg – 2,100 kg	1710039*
ACS for motorhomes with Fiat, Peugeot or Citroen original chassis	from 2006**	Light	1,480 kg – 1,640 kg	1710624
		Middle	1,600 kg – 1,850 kg	1710625
		Heavy	1,800 kg – 2,100 kg	1710626
ACS for motorhomes with Fiat, Peugeot or Citroen original chassis	from 2006**	Light	1,480 kg – 1,640 kg	1710287*
		Middle	1,600 kg – 1,850 kg	1710288*
		Heavy	1,800 kg – 2,100 kg	1710305*





# NEW: AL-KO COMFORT DRIVE

## Comfortable travel redefined

Development partner:

**KW** *automotive*

### SEMI-ACTIVE SUSPENSION

Together with damper specialist KW automotive, AL-KO VT presents a semi-active damping system for retrofitting and upgrading motorhomes. It calculates the expected vehicle movement and changes the shock absorbers' settings accordingly – automatically and practically in real time. This significantly reduces disruptive wobbling, pitching and rolling movements along the vehicle axle and noticeably decreases impacts on the chassis from potholes and bumps. AL-KO COMFORTDRIVE is available for motorhomes on the Mercedes-Benz Sprinter base in conjunction with the AL-KO AMC chassis. On Mercedes-Benz-based mobile homes, the original Mercedes-Benz spring is used in the front McPherson strut in order to achieve the standard standing heights.

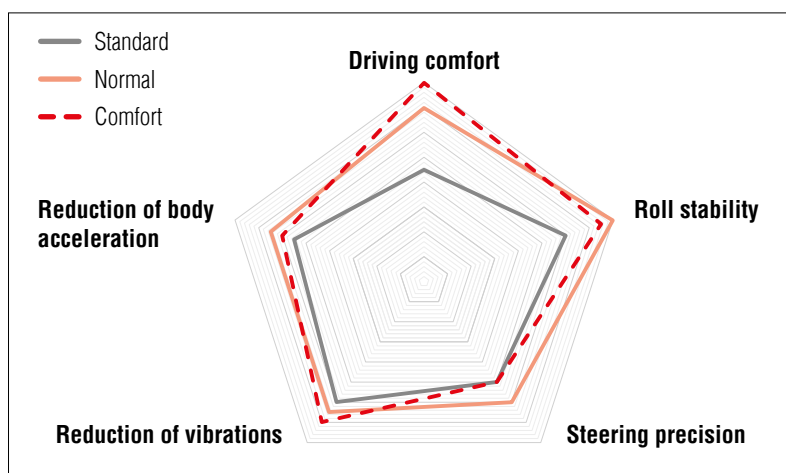
### PRODUCT ADVANTAGES

- | Choice between damping or driving performance mode (Normal & Comfort)
- | Enhanced comfort: Vibration reduced by 20%
- | Reduction of disturbing vibration amplitudes
- | Reduction of the noise level generated by vibrations by up to 1.5 dB
- | Filtering out impacts and clattering on the vehicle, Reduced tendency of the vehicle to pitch, roll and sway
- | Higher cornering power through automatic damper adjustment
- | Noticeably fewer rolling movements / vehicle tilt
- | Optimised damper/spring rate for vehicle weight/properties
- | Automatic scaling of the control intervention (e.g. due to different loading conditions)
- | The system can assist during emergency braking by changing the shock absorber characteristics

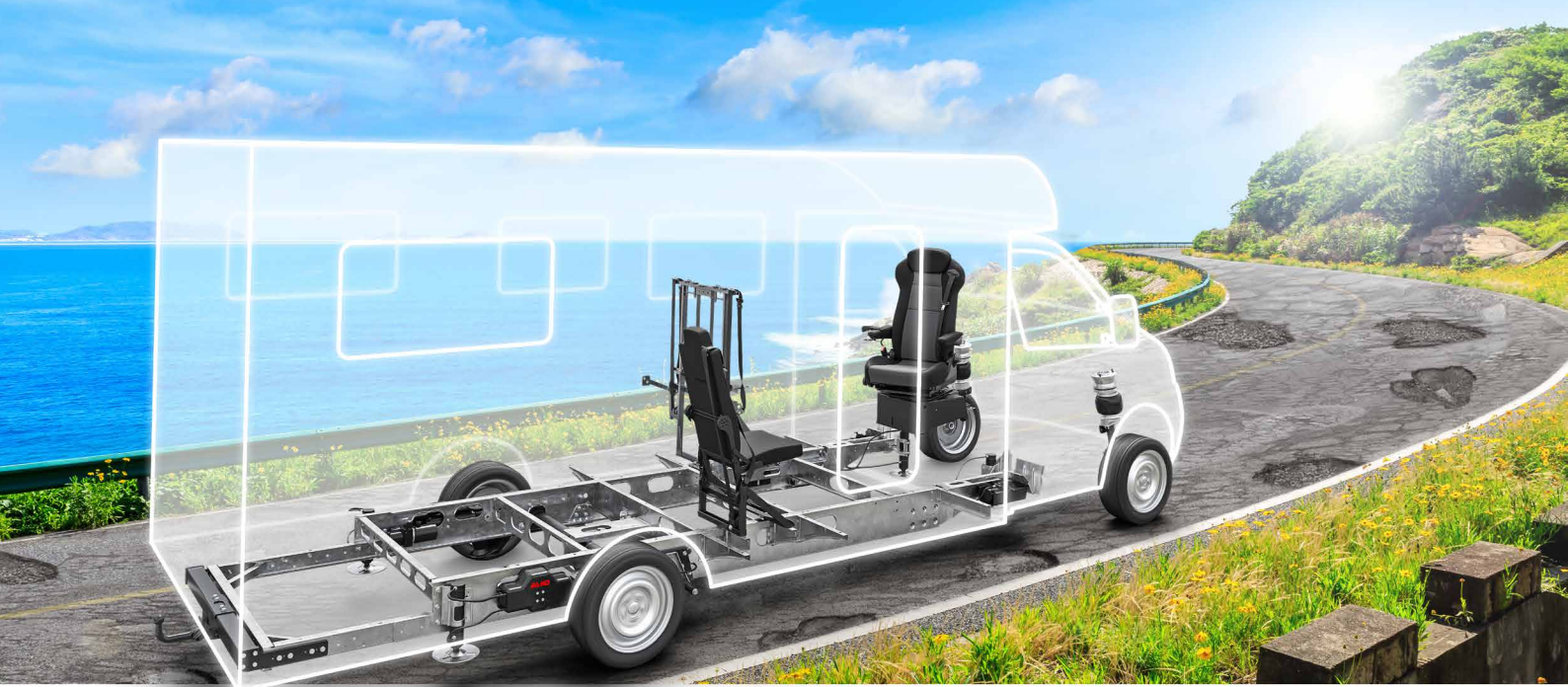
#### Driving modes selectable by control button:



- | **Normal** (Basic mode, permanently active): Improved comfort and tracking adjustment. Recommended for winding routes and a lot of steering behaviour.
- | **Comfort** (switchable mode): Significantly improved comfort. Recommended for mostly straight roads (e.g. motorway).







# AIR PREMIUM X4

## High-performance full air suspension

### YOU CAN'T GET MORE COMFORT THAN THIS

FRONT and AL-KO REAR AXLE(S) are equipped with an air suspension for the 4-circuit Air Premium X4 full air suspension. This helps to achieve a high level of suspension comfort. In addition, the vehicle remains at a constant level during a journey – regardless of overall vehicle weight.

Maximum raising of the front axle, maximum lowering of the rear axle enables easy loading of the rear garage and/or load-carrier

Maximum raising of the driving level at the rear and lowering at the front, e.g. for ramps

Kneeling function to assist complete tank emptying

Automatic levelling function for a balanced living area when parked

Activation / deactivation of the system and indicator lights (service display)



### COMPLETELY MAINTENANCE-FREE

The Air Premium X4 full air suspension allows the front axle to be raised by up to +70 mm and lowered by up to -60 mm\*. Above the rear axle, the vehicle can be raised up to +40 mm and lowered down to -50 mm\*. The complete system is maintenance-free and also suitable for vehicles with ESP.

# AIR PREMIUM X2

## The full air suspension for dynamics and comfort

### OPTIMAL COMFORT

The fully automatic and maintenance-free Air Premium X2 air suspension system ensures superior suspension comfort at the AL-KO REAR AXLE(S). The vehicle can be raised above the rear axle up to +40 mm and lowered down to -50 mm\* using the remote control.



*The prices for the Air Premium X2 and X4 products are individual and dependent on the vehicle in question. Prices are available on request.*

\*Dimensions may vary depending on the vehicle

### OPERATING UNIT

You can raise or lower the vehicle while going up to 25 km/h with just the push of a button. So driving onto a ferry is no longer a problem. The automatic levelling function, an electronic spirit level, automatically levels the vehicle when parked.



# AIR PLUS

## Comfort update for AL-KO rear axles

### PERFECT DRIVING COMFORT

The manually regulated Air Plus additional air suspension system for AL-KO CHASSIS enables you to change the rear gradient angle. The control panel enables you to easily change the level on the rear axle from the cockpit, raising it up to +40 mm and lowering it down to -50 mm\*. This enables you to achieve optimum chassis adjustment that ensures maximum driving stability.

\*Dimensions may vary depending on the vehicle

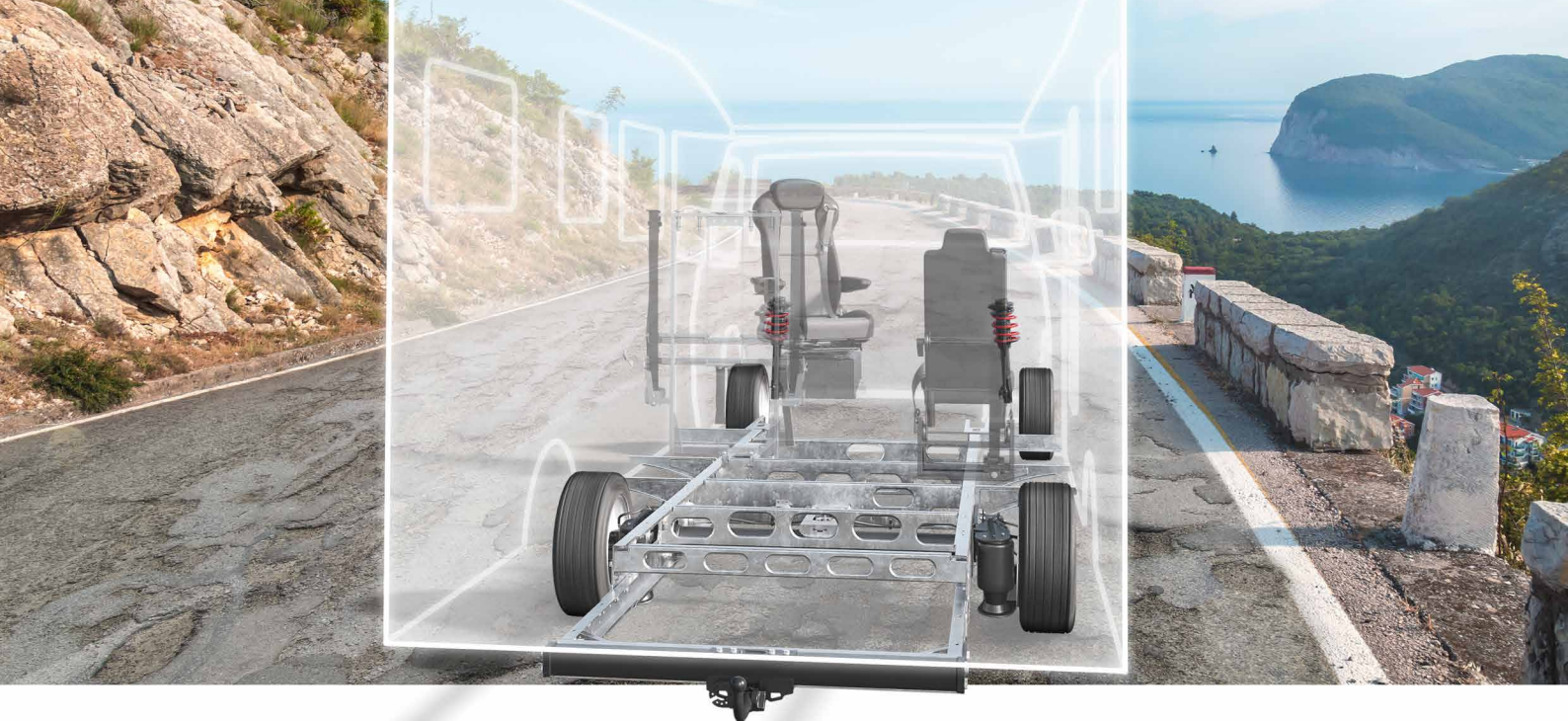


### COMPRESSOR KIT

An ergonomic control panel for the cockpit and compressor is available for the AIR PLUS additional air suspension.







# ACS – AL-KO COMFORT SUSPENSION

For motorhomes and vans

## MORE COMFORT

The ACS comfort suspension meets the highest comfort standards and was specially designed for the high demands of motorhomes. The suspension and absorption are optimised to each other and ensure an increase in driving stability on the front axle. Hard impacts are mitigated significantly and the vibration dampening on the steering wheel decreases driver stress and goes easy on the arms.



## UNIQUE

- | Impressive suspension comfort
- | Superb driving stability and enhanced driving safety
- | Reduced noise levels inside the vehicle
- | Robustness and durability
- | Maintenance-free
- | For 2- and 3-axle vehicles
- | Replaces the standard original front axle spring strut
- | Available for original equipment and retrofitting

# AL-KO

QUALITY FOR LIFE

Member of **DEXKO**  
GLOBAL

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