

*Cleaning Technology  
Municipal Technology  
Waterjet Technology*

**Hako**



**EURO VI-E**

## **Multicar M31**

*Multifunctional load and implement carrier in the 6-t class*

*Multifunctional. Economical. Powerful.*



### Comfortable

From a large, tinted windshield to power steering and armrest-integrated operation: The Multicar M31 makes everyday work easier with well thought-out details.

### Save

As safe as a lorry: with impact-tested space-frame cab, all-wheel drive, disc brakes, daytime running lights and much more.

### Sustainable

Saves emissions: with a powerful, fuel-efficient turbodiesel and exhaust emissions so low that it meets the strict limits of the Euro VI-E standard.

**„It's a great feeling to know that every challenge is doable!“**

### Multifunctional

Year-round, seasonal, stationary: Equipped with three attachment points for a wide variety of attachment combinations, the Multicar M31 is a true all-rounder for all situations.

# MULTICAR M31

Multifunctionality, economic efficiency and dynamics in a compact form: As a versatile implement carrier and powerful transporter, the Multicar M31 masters all tasks with ease – and sets new standards in terms of safety and comfort. Redefining sustainability and performance in the 6-t class, the vehicle is a genuine trendsetter. It fully complies with the Euro VI-E standard for lower exhaust emissions without sacrificing performance!



### As if made for the driver

Promotes productivity and counteracts fatigue: the standard comfort of the Multicar M31. The ergonomically optimised cab design with unique, DEKRA-tested safety features and a workstation that can be optimally adapted to the driver make driving a pleasure. And the ergonomically designed controls are easy on the user's health and make even long operations possible without causing any discomfort.



Variable: with a short or long wheelbase and 4x2 or selectable 4x4 drive.



## Typical Multicar!

Modularity is the great strength of the Multicar M31. Depending on individual requirements and areas of application, different, optimally matched equipment and fittings can be selected. Always on board: clever technical features that make the Multicar M31 efficient, economical and versatile.



Powerful: the ball head/pin coupling with a drawbar load of 150 and 250 kg respectively.



### Everything quickly under control

All operating and display elements are centrally and clearly arranged. For an optimum overview, the switches are equipped with LED technology.



Flexible: three-way tipper with variable hydraulic tipping directions.



Strong: with a total towing weight of up to 7.5 t, payload of up to 3.1 t and braked trailer load of up to 3.5 t.

Quickly ready for use: easy attachment pick-up via a front-mounted quick-change system with lifting, lowering or swivelling function.

Safe road holding: thanks to independent wheel suspension with coil springs and progressive leaf springs with telescopic dampers at the rear.



Simply see more: large exterior mirrors, optionally with additional wide-angle mirrors.

### Ready for all conditions

With a width of just 163 cm, a small turning circle and power steering as standard, the Multicar M31 can be manoeuvred easily and safely even in tight spaces. If necessary, all-wheel drive and creep speed can be engaged at the push of a button. And with a high transport speed of up to 90 km/h, the vehicle always gets to the next job site quickly.



## Comfortable – and safe!

When it comes to comfort and safety for the user, our standards cannot be high enough. That's why we conduct safety tests in accordance with ECE-R 29 and even ECE-R 13 (Multicar M31 Hydrostat) and support the driver with many well-thought-out details in his everyday work.

A keypad in the overhead console allows quick and easy selection and adjustment of work options such as front and rear work lights, windshield and mirror heating, and the front camera.

All buckled up? A contact in the seat cushion checks seat occupancy, another in the seat belt buckle checks seat belt use. If the seat belt is not fastened, visual and audible warning signals are emitted.



### Recognising dangerous situations

The optional camera system (available from Q1 2024) and rear-view cameras provide a complete all-round view of the vehicle. The optional turn-off assistant detects road users in the blind spot.

### Optimum illumination with LED

All the vehicle's lighting systems are equipped with energy-efficient LEDs with an optimum beam angle. For considerable energy savings and ideal working conditions.



### Protected against theft

After the ignition is switched off, the immobilizer is automatically activated. Only the remote-control key can deactivate it again when the ignition is switched on.

### Further safety features:

- Standard daytime running lights and large-area reflectors
- Large exterior mirrors – optionally heated and electrically adjustable, as well as additional wide-angle mirrors
- Double-skinned doors with load-tested steel and plastic
- Impact-tested space frame cab
- Hydrostatic drive and hydrostatic ABS for extra safety and stability – complies with guideline ECE-R 13 (Multicar M31 Hydrostat)

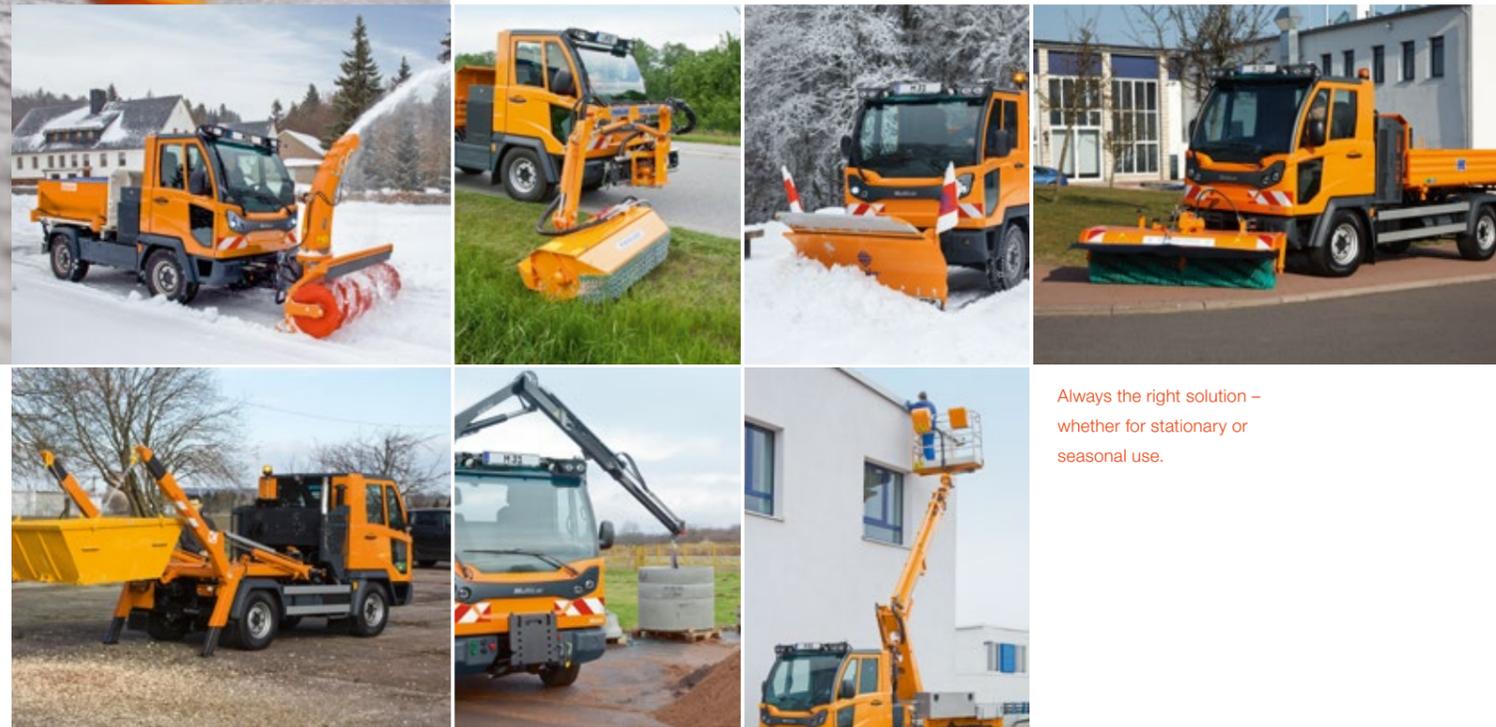


**Year-round application possibilities, e.g.:**

- Transport work with a three-way tipper or skip body, also in combination with a loading crane or grapple
- Disposal tasks in pedestrian zones, parks and narrow areas
- Repair and maintenance work with aerial work platforms
- Cleaning of gullies and sewer cleaning

**Seasonal application possibilities, e.g.:**

- Winter service with snow ploughs or snow brushes
- Sweeping with front-mounted and suction sweepers
- Cleaning with water pressure or hand-held cleaning/watering equipment
- Mowing work, tree and woody plant care, tree pruning, shredding and removal of clippings



Always the right solution – whether for stationary or seasonal use.

# Unbeatably versatile!

Whether in the city, in landscaping, in the construction industry or in waste disposal: The multifunctional talent Multicar M31 convinces with a multitude of application possibilities and the greatest possible flexibility. With its wide range of attachments and superstructures, it is not only extremely adaptable to any task and condition, but also particularly user-friendly – both in terms of preparation and execution.



 Green maintenance	 Sweeping	 Winter service	 Wet cleaning	 Weed control
 Waste disposal	 Transport	 Road maintenance	 Special operations	 Waterjet technology

**Technical benefits:**

- Three attachment points for a wide variety of optimally adapted implements and a quick-change system for fast and tool-free changeover
- High hydraulic output of up to 110 l
- Large reserve when operating front attachments due to a high front axle load (up to 2.7 t)
- High functionality in implement operation due to additional front and rear swivelling functions
- Possible to use the swivelling functions as a continuous consumer
- With comfort functions for more user-friendliness, for example, in winter service



With clever details, Hako ensures less noise and pollutant emissions in the field of Municipal Technology.

## For better air quality: Euro VI-E

With its high-performance exhaust gas purification system, the Multicar M31 meets the Euro VI-E standard – making municipal use even more sustainable and fit for the future. To comply with the strict limits, various exhaust gas purification systems such as a diesel oxidation catalyst and SCR-coated diesel particulate filter as well as a second SCR catalyst are integrated. With success:



- Exhaust gas aftertreatment is optimally ensured in all operating conditions
- Strong reduction of nitrogen oxide and particulate emissions
- Municipal use becomes even more sustainable and future-proof
- High hydraulic output of up to 110 l

### Four models for every challenge



#### Multicar M31 T

- With tipping hydraulics for three-way tipping body
- Payload of up to 2.9 t
- Trailer loads of up to 3.5 t



#### Multicar M31 B

- With robust chassis for a wide range of applications
- Stationary 1-circuit hydraulics
- Ideal for stationary superstructures



#### Multicar M31 C

- With powerful, continuously variable mobile hydraulics (3 versions)
- LS hydraulics for high drive power even at low speeds



#### Multicar M31 Hydrostat

- With hydrostatic drive (3 versions)
- No clutch, no wear
- With unique hydrostatic ABS

Multicar M31 at a glance

## Technical data

	Multicar M31 T	Multicar M31 B	Multicar M31 C	Multicar M31 Hydrostat
<b>Engine and transmission</b>				
Engine	high-volume engine, FPT turbodiesel, displacement 2,998 cm <sup>3</sup>			
Output	110 kW (150 hp) at 3,500 rpm			108 kW (147 hp) at 3,000 rpm
Max. torque	320 Nm at 1,200 rpm			370 Nm at 1,320 rpm
Pollutant emissions	exhaust emissions according to standard EG595/2009/EC (EURO VI)			
Transmission	5 forward gears and 1 reverse gear; with all-wheel drive incl. creeper: 10 forward and 2 reverse gears			continuously variable hydrostat with two driving modes: transport and work, selectable creeper gear
<b>Driving characteristics</b>				
Speed range class N2	0–90 km/h			0–70 km/h
Chassis	torsion-resistant steel profile frame in a modular design			
Wheelbase	2,450 mm (short), alternatively 2,995 mm (long)			
Axles/suspension front	independent suspension with telescopic shock absorbers and additional coil springs			
Axles/suspension at rear	with telescopic shock absorbers and additional progressive leaf springs			
Tyres	225/75 R 16 C (standard), other tyres available as an option			
Cab	tiltable space frame cab, safety cab, complies with ECE-R 29			
<b>Drive and steering</b>				
Drive	4 x 2-, optionally selectable		4 x 4 all-wheel drive (standard)	
Clutch	hydraulically operated, asbestos-free			
Steering	power steering (hydraulic steering), height and tilt adjustable			
Fuel tank	capacity 90 litres, AdBlue 17 litres			
Brakes	4-wheel disc brakes (internally ventilated) with 4-channel ABS, complies with ECE-R-13			additional hydrostatic brake slip control, complies with ECE-R 13
<b>Load values</b>				
Permissible total weight	up to 5.6 t			up to 5.7 t
Permissible front axle load	2.4 t/2.7 t		2.7 t	
Permissible rear axle load	up to 3.67 t			up to 3.8 t
Payload with 4 x 2 drive*	up to 2.9 t	up to 3.1 t	-	-
Payload with 4x4 drive*	up to 2.8 t	up to 3 t	up to 2.9 t	up to 2.9 t
Permissible trailer load	3.5 t (braked) / 0.75 t (unbraked)			
Total towing weight	7.5 t			
<b>Hydraulics</b>	Tipping hydraulics: max. 10 l/min max. working pressure 180 bar optional: preparation light winter service (swivelling/lifting/lowering front attachment – max. 5 l/min)	Stationary hydraulics: 1-circuit hydraulics up to 55 l/min at 200 bar up to 40 l/min at 250 bar (depending on variant)	Mobile hydraulics available in 3 variants: 1. 1 working circuit, gear pump, 1 x 55 l, max. working pressure 200 bar 2. 2 working circuits, double gear pump, 2 x 55 l, max. working pressure 200/250 bar 3. 2 working circuits, high-pressure comfort hydraulics, axial piston pump and gear pump, 110 l, max. working pressure 200/300 bar, switchable	
<b>Dimensions</b>	4180 x 1630 x 2200 mm	4180 x 1630 x 2200 mm	4180 x 1630 x 2200 mm	

\* Additional equipment reduces the payload



## Hako's all-round carefree solution

### Excellent service with Hako original spare parts

As soon as a service case occurs or maintenance becomes necessary, Hako-Fleet-Management informs you in real time. With our Germany-wide service network, we ensure maximum availability of your fleet – if the worst comes to the worst with precision-fit Hako original spare parts:

- Product and service quality from a single source
- Perfectly matched parts for high efficiency
- Safe and reliable operation – guaranteed!



### Attractive financing alternatives

High-performance machines and excellent service in a complete package with fixed calculable costs over the entire period of use. Tailored to your individual needs and with maximum flexibility.



Leasing options – tailored to our customers' individual needs.



Rental contract ALL-IN-plus: financing, maintenance and insurance included!



Hire purchase – special monthly instalments, tailored to your liquidity.



Seasons – adjust rent to seasonal sales

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In the interest of further technical development we reserve the right to colour-, structural or design modifications. Pictures may show optional equipment. The range of available products and services may vary from country to country.