



Mobile robotics_KUKA omniMove UTV-2



Now even XXL components can be set in motion.

The KUKA omniMove maneuvers aircraft, wind power plant and rail vehicle components to the exact location where they are required for the production process. e-mobility and KUKA intelligence make the production process quicker and more flexible than ever before.



KUKA omniMove

+



375 / 575

+



Options

=

Your solution

KUKA omniMove UTV-2

Maximum flexibility and precision for XXL components

The KUKA omniMove UTV-2 sets everything in motion, boosting your productivity. Never before has it been simpler to maneuver heavy and bulky loads into the right position – with pin-point accuracy. This is made possible by the unrestricted two-dimensional freedom of motion. The KUKA omniMove mobile platform concept ensures maximum flexibility. Moving underneath or lifting: the KUKA omniMove can lift payloads of up to 90 t with ease. Ten different standard vehicle variants with individual intermediate sizes and numerous customer-specific option packages ensure that you will find solutions to cover an extremely wide range of requirements.

In aircraft construction, the omniMove UTV-2 moves fuselage sections into their exact assembly position.

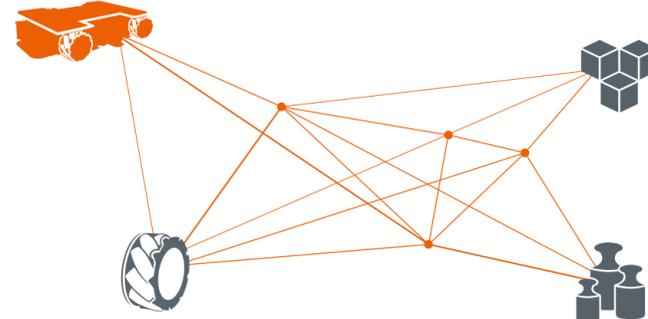


Maximum flexibility and unrestricted maneuverability. Remain mobile in every direction. The omnidirectional drive technology of the KUKA omniMove makes both translational and rotational motions possible – and does so from a standing position, in the tightest of spaces and with the load raised. The unrestricted 360° mobility reduces the time required for repositioning the vehicle to a minimum.



Utmost precision, simple operator control. The KUKA omniMove is a precision device on wheels. Optional tracking, positioning aids and mechanical guide elements allow it to achieve a positioning accuracy of up to ±1 mm. Yet it remains extremely straightforward to operate. The KUKA omniMove is manually controlled by means of radio control using a joystick. The optionally available KUKA Navigation Solution serves to ensure that work sequences are reliable, autonomous and flexible.

The KUKA omniMove is available in a number of standard variants. Choose the platform that best suits your application from our extensive portfolio.



Selectable wheel size
Irrespective of the required payload capacity, the KUKA omniMove is available with two different wheel sizes of 375 mm or 575 mm diameter.

Multitude of options
The dimensions and payload capacity of the KUKA omniMove UTV-2 can be tailored to your requirements. Additional equipment can also be incorporated.

Scalable payload
The payload of the KUKA omniMove models depends on the chosen wheel size and the number of wheels, with a maximum capacity of 90 t.



High load capacity and maximum safety. One KUKA omniMove on its own can maneuver enormous components. Even more can be achieved with two vehicles connected by means of an optional mechanical coupling. They can be deployed in a highly flexible manner for a wide range of transportation tasks. Coupling two vehicles with a payload capacity of 45 t each enables payloads of up to 90 t or components with a length of up to 30 m to be transported. The KUKA omniMove meets all safety standards required for industrial trucks.



Freely scalable modular system. Tailor your KUKA omniMove precisely to your requirements. The size, width and length can all be varied. Moreover, a selection of optional additional equipment is available. Use the flexible KUKA platform concept to get your productivity gain moving!

Mobile robotics from KUKA

Technical data

KUKA omniMove UTV-2

Wheel sizes E375	3000	8000	12000	16000	20000
Payload	3,000 kg	8,000 kg	12,000 kg	16,000 kg	20,000 kg
Height	415 mm	415 mm	415 mm	415 mm	415 mm
Length	2,400 mm	3,200 mm	3,200 mm	4,000 mm	4,800 mm
Width	1,700 mm	1,700 mm	2,200 mm	2,200 mm	2,200 mm
Number of wheels	4	8	12	16	20
Weight	3,000 kg	4,000 kg	6,000 kg	7,000 kg	8,000 kg
Velocity	3.0 km/h	3.0 km/h	3.0 km/h	3.0 km/h	3.0 km/h

Wheel sizes E575	7000	15000	25000	35000	45000
Payload	7,000 kg	15,000 kg	25,000 kg	35,000 kg	45,000 kg
Height	650 mm	650 mm	650 mm	650 mm	650 mm
Length	3,000 mm	4,200 mm	4,800 mm	6,000 mm	7,200 mm
Width	1,850 mm	1,850 mm	1,850 mm	1,850 mm	1,850 mm
Number of wheels	4	8	12	16	20
Weight	4,500 kg	7,500 kg	10,000 kg	12,500 kg	15,000 kg
Velocity	3.0 km/h	3.0 km/h	3.0 km/h	3.0 km/h	3.0 km/h

Operating condition

Ambient temperature	+5 °C to +40 °C
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Protection rating

Protection class	IP 54
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Power supply connection	3 * 400 V + PE AC; CEE 32 A
Control	Manual via radio control unit

KUKA omniMove additional options

Navigation options

Optical guidance	
Inductive guidance	
Fine positioning	
Location detection	
KUKA Navigation Solution	
WLAN interface	

Battery management

Variation of charging devices	
Floor charging contacts	
Charging device on board	
Battery tray	

Safety options

Safety laser scanners	
Radio-controlled enabling switch	
HYJET IV resistance	
Halogen-free cabling	

Additional options

Tandem mode	
LED work spotlight	
RFID transponder	

Load options

Lifting elements	
CupCone centering	
Load detection	



To find out more about additional options scan this QR code with your smartphone.



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