

**UNI CARRIERS**

# Exceptional performance... whatever the conditions

**AC**  
tech

24/7  
support



worldwide network

4  
models

MDW • MDE



## Exceptional performance... whatever the conditions

### Top features

- Sealed chassis offers protection against dirt, dust and other particles to reduce wear.
- Oil-filled, sealed transmission is shock-resistant, quiet and requires little maintenance.
- High-efficiency electronic system features waterproof components for maximum reliability – even in damp conditions.
- Robust forks with welded construction, and rounded tips for effortless pallet entry, providing extra strength and durability.

- Market-leading lift height of 135 mm allows easy handling on steep ramps and loading docks, even with damaged pallets.
- High stability is ensured by use of two linked castor wheels – next to the central drive wheel – in addition to the two load wheels.
- Versatile battery compartment accommodates DIN and BS size batteries with a variety of capacities for maximum compatibility with user's equipment and needs.
- Choice of two performance modes via key switch enhances safety, energy efficiency and productivity.

Rapid and/or double battery change device (MDW180 and MDW200)



### Options

- Choice of drive and load wheels for different applications
- Pallet entry and exit rollers
- Wide variety of fork dimensions
- Cold store modification (class III, -35°C)
- Load backrest
- LED working light (MDW and MDE)
- Multifunctional display with hour meter
- Equipment bar for mounting accessories
- Single load wheels (standard on MDW160)



## STANDARD SPECIFICATIONS

		Warehouse, power pallet trucks Designation according VDI 3586	Data sheet for materials handling equipment					VDI 2198 Registration note
		Manufacturers Data and Design Characteristics						
CHARACTERISTICS	1.1	Manufacturer			UniCarriers			
	1.2	Manufacturer's model designation			MDW160	MDW180	MDW200	MDE200
	1.3	Power source: (battery, diesel, LP gas, petrol)			Battery			
	1.4	Operator type: pedestrian, (operator) standing, seating			Pedestrian			
	1.5	Load capacity	Q*	(kg)	1600	1800	2000	2000/700
	1.6	Load centre distance	c*	(mm)	600			
	1.8	Load wheel axle to fork face (forks lowered)	x*	(mm)	960	960	960	852
	1.9	Wheelbase	y*	(mm)	1360	1424	1424	1509
WEIGHTS	2.1	Truck weight with maximum battery weight		kg	431	502	634	579
	2.2	Axle loadings with nominal load & maximum battery weight, drive/load side		kg	635/1396	806/1496	864/1770	770/1809
	2.3	Axle loadings without load & with maximum battery weight, drive/load side		kg	332/99	381/121	475/159	419/160
WHEELS & TIRES	3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/Vul			
	3.2	Tyre dimensions, drive side		[mm]	85x90	85x75	85x75	85x75
	3.3	Tyre dimensions, load side		[mm]	230x70			
	3.4	Castor wheel dimensions (diameter x width)		[mm]	100x40	100x40	100x40	100x40
	3.5	Number of the wheels drive/load side (x=driven)			2+1x/2	2+1x/4	2+1x/4	2+1x/4
	3.6	Truck width (centre of tyres), drive side	b <sub>10</sub> *	[mm]	480			
	3.7	Truck width (centre of tyres), load side	b <sub>11</sub> *	[mm]	355/375/495	355/375/495	355/375/495	375
DIMENSIONS	4.2	Height with mast lowered (see tables)	h <sub>1</sub> *	(mm)	–			
	4.4	Lift height	h <sub>3</sub> *	(mm)	135	135	135	135/735
	4.8	Seat or stand height		(mm)	–			
	4.9	Height of tiller arm/steering console (min./max.)	h <sub>14</sub> *	(mm)	1050/1372	1050/1372	1050/1372	1050/1372
	4.15	Fork height, fully lowered	h <sub>13</sub> *	(mm)	85			
	4.19	Overall length, platform up/down	l <sub>1</sub> *	(mm)	1648	1712	1712	1780
	4.20	Length to fork face, platform up/down	l <sub>2</sub> *	(mm)	498	562	562	653
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> *	(mm)	720			
	4.22	Fork dimensions (thickness, width, length)	s/e/l*	(mm)	55/165/1150	55/165/1150	55/165/1150	50/195/1150
	4.25	Outside width over forks	b <sub>5</sub> *	(mm)	520/540/660	520/540/660	520/540/660	540/570
	4.32	Ground clearance, centre of wheelbase (forks lowered)	m <sub>2</sub> *	(mm)	30			
	4.33	Working aisle width (Ast) with 1000 x 1200 mm pallet, load crosswise, platform up/down	Ast*	(mm)	1694	1758	1758	1874
	4.34	Working aisle width (Ast) with 800 x 1200 mm pallet, load lengthwise, platform up/down	Ast*	(mm)	1894	1958	1958	2074
	4.35	Turning circle radius	Wa*	(mm)	1454	1518	1518	1526
PERFORMANCE	5.1	Travel speed, with/without load		km/h	6.0/6.0			
	5.2	Lifting speed, with/without load		m/s	0.034/0.043	0.034/0.043	0.039/0.06	0.11/0.14
	5.3	Lowering speed, with/without load		m/s	0.099/0.076	0.099/0.076	0.099/0.078	0.13/0.12
	5.7	Gradeability, with/without load		%	10.0/20.0	10.0/20.0	10.0/20.0	10.0/20.0
	5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric			
DRIVE	6.1	Drive motor capacity (60 min. short duty)		kW	1.0			
	6.2	Lift motor output at 15% duty factor		kW	0.8	0.8	1.2	1.2
	6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24/150	24/250	24/250-375	24/150
	6.5	Battery weight		kg	151	212	212-294	151
OTHERS	8.1	Type of drive control			Stepless			
	8.4	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ		dB(A)	62/69/0	62/69/0	65/67/0	59/60/0
		Body tremble according to EN 13 059:2002		[m/s²]	–	–	–	–
		Hand tremble according to EN 13 059:2002		[m/s²]	< 2.5			

\* For further information please refer to the specification sheet.

It's all about  
the price.  
**But what  
price?**

## **Reduce your Total Cost of Operation with UniCarriers**

We agree. Price is everything. Or to be more specific: your Total Cost of Operation (TCO). That's why we're so focused on cutting costs and improving your material handling. The truck and its performance play an important role, but this is even more about how we can support you in optimising your warehouse operations to give you the best value for your money. Which – in the long run – is what creates a winner.