

MAVERICK
F O R K L I F T

**Sitting-on Multidirectional Reach Forklift
MDW 5.0**



PRODUCT OVERVIEW

Maverick MDW series electric multi-directional forklift is designed for handling of heavy-duty, bulky very long goods in a very narrow aisle. The load capacity is 5t and the lifting height is 3~10m (9,84 ft to 32,80 ft), with 3 kinds of driving model: forward/backward, driving sideways and 360° steering in place. This forklift combines several patented technologies, especially hydraulic synchronous cross control technology +all-wheels driving 3 support framework design which ensure the forklift can be operated in several kinds of complicated environments.



Forward/backward Driving



360° steering in place



Driving Sideways



APPLICATIONS

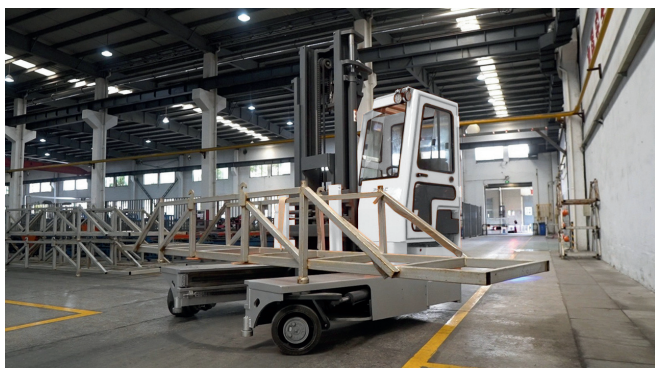
Applications: industries such as pipe, slab, timber log, furniture, mattress, fabric rolls, glass, mold cabinet, box, elevator and goods with standard pallets



STEEL



TILES



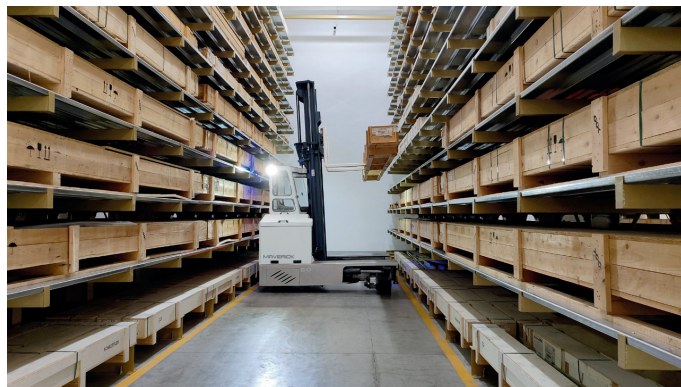
METALLURGY



WOOD



PIPES



LOGISTIC

PRODUCT FEATURES

- ▶ The forklift is designed for handling of very long (maximum 20 m / 65,61 ft), heavy-duty goods in narrow aisle <2750 mm (108,26 in) with turning radius in place < 1750mm. (68,90 ft).
- ▶ Full 3 driving wheels + solid rubber tyres with outstanding gradeability and adaptability to tough terrains.
- ▶ Several kinds of driving modes (forward, sideways, turning in place) for freely switching.
- ▶ Patented hydraulic synchronous cross steering control technology.
- ▶ Finger joystick frequency band control technology, mast inching and slow lowering make hydraulic movement more secure and stable.
- ▶ HMI human-machine interaction interface, industrial touch screen + all-wheels display.
- ▶ Independently developed CAN bus full AC electrical topology control technology highly integrated system, reliable and stable communication, efficient and convenient electrical maintenance.
- ▶ All wheel braking system makes braking safer and smoother.
- ▶ Bypass valve + differential pressure transmission hydraulic control technology, improving the safety of forklift and the service life of hydraulic components.
- ▶ The oil circuit adopts a wide press filter design which filtering accuracy <5pm, filtering efficiency >99.5%, reducing faults and extending the replacement cycle of hydraulic oil.
- ▶ Many optional configurations and available for customization.

- ▶ Multi-directional driving, suitable for operation in narrow aisles, easy to operate and switch working aisles, high efficiency and less faults.
- ▶ 80V full AC electric system, quick response and precise steering, highly integrated electric system with low power consumption
- ▶ High quality H type steel suitable for heavy-duty and high lifting operation environment
- ▶ All rubber tyres with big load capacity and suitable for different working environment. Outstanding obstacle surmounting ability and long service life.
- ▶ Imported spool for precise hydraulic movement and fewer faults.
- ▶ Modular electric control, CAN bus communication, easy to repair.
- ▶ Hydraulic synchronous cross steering control technology lowers the maintenance cost
- ▶ Real-time all wheels HD display makes micro adjustment in narrow aisle more convenient
- ▶ All-wheels braking makes deceleration smoother and safer.
- ▶ Safe and reliable large capacity specialized traction battery featured with convenient charging, long cycle life, and low maintenance cost.



Big H type cross section channel steel built with high performance for mast resisting to bending and twisting.



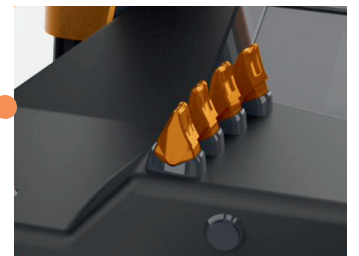
All wheels are imported wear-resistant rubber tyres suitable for outdoors operation and uneven floors. All wheels are equipped with service parking device for emergency braking on slope outdoors.



Full-closed cabin isolates the operation from noise and dust, suitable for working in rainy and snowy environment. Full view front windshield provides clear view to external environment.



Full suspended seat provides a more comfortable driving experience



Finger joystick + proportional valve technology for flexible and stable operation



Optional accessories: 4 forks + fork carriage fork positioner

PRODUCT SPECIFICATIONS

Specifications (5.0T / 4.0T / 3.5T / 3.0T)

Characteristic	1.1	Manufacturers		MAVERICK	MAVERICK	MAVERICK	MAVERICK
	1.2	Brand		Maverick	Maverick	Maverick	Maverick
	1.3	Model		MDW150/MDD50	MDW140/MDD40	MDW130/MDD30	MDW135/MDD30
	1.4	Power type		Electric	Electric	Electric	Electric
	1.5	Driving style		Seated	Seated	Seated	Seated
	1.6	Rated load	Q (lbs / kg)	11000-11200 lbs (5000 kgs)	8800-8900 lbs (4000kgs)	6600-6700 lbs (3000kgs)	7700-7800 lbs (3500kgs)
	1.7	load center distance	C (in./mm)	23.6 " (600mm)	23.6 " (600mm)	23.6 " (600mm)	23.6 " (600mm)
Weight	2.1	Truck weight (including battery)	Ibs (kg)	17300-17400 lbs (7800kgs)	14400-14500 lbs (6500kgs)	12000-12100 lbs (5400kgs)	11500-11600 lbs (5200kgs)
	2.2	Battery weight (+5%)	Ibs (kg)	3300-3400 lbs (1500kgs)	2800-2900 lbs (1300kgs)	2400-2500 lbs (1100kgs)	2200-2300 lbs (1000kgs)
Tyres	3.1	Tire Type Front/Rear		Solid rubber tire	Solid rubber tire	Solid rubber tire	Solid rubber tire
	3.2	Front load wheel (diameter x width) single tire	In.(mm)	15.9 " × 8.7 " (φ405×220)	15.9 " × 8.7 " (φ405×220)	15.9 " × 8.7 " (φ405×220)	15.9 " × 8.7 " (φ405×220)
	3.3	Rear drive wheel (diameter x width) single tire	In.(mm)	26.8 " × 9.8 " (φ680×248)	26.8 " × 8.7 " (φ680×220)	22.0 " × 8.7 " (φ560×220)	26.8 " × 8.7 " (φ680×220)
	3.4	Number of tires Drive/Load	pcs	1X/2	1X/2	1X/2	1X/2
Dimension	4.1	Lifting height series	In.(mm)	118 " -394 " (3000mm-10000mm)	118 " -394 " (3000mm-10000mm)	118 " -394 " (3000mm-10000mm)	118 " -394 " (3000mm-10000mm)
	4.2	Mast carriage tilt front/rear	α/β(°)	2/3	2/3	2/3	2/3
	4.3	Standard lifting height series	h1(mm)	See Table1	See Table1	See Table1	See Table1
	4.4	Chasis ground clearance	h7(In./mm)	6.1 " (156mm)	6.1 " (156mm)	5.9 " (150mm)	5.9 " (150mm)
	4.5	Height of left and right outriggers	h9(In./mm)	21.4 " (543mm)	21.4 " (543mm)	20.1 " (510mm)	21.4 " (543mm)
	4.6	Overall length (including forks)	l1(In./mm)	98.4 " (2500mm)	93.7 " (2380mm)	86.6 " (2200mm)	86.6 " (2200mm)
	4.7	Overall width	b2(In./mm)	89.8 " (2380mm)	88.6 " (2250mm)	76.8 " (1950mm)	76.8 " (1950mm)
	4.8	Fork specification	l/e/s(In./mm)	47.2 " /5.9 " /2.0 " (1200/150/50)	47.2 " /5.9 " /2.0 " (1200/150/50)	47.2 " /5.9 " /2.0 " (1200/150/50)	47.2 " /5.9 " /2.0 " (1200/150/50)
	4.9	Fork outer distance	b3(In./mm)	17.7 " -46.3 " (450mm-1175mm)	17.7 " -46.3 " (450mm-1175mm)	17.7 " -39.4 " (450mm-1000mm)	17.7 " -39.4 " (450mm-1000mm)
	4.10	Minimum side aisle (length x width x height) Pallet 3000 x 1200 x 1000 (23.6 " /600mm))	In./mm)	108.3 " (2750 ^{[1] mm})	106.3 " (2700 ^{[1] mm})	92.5 " (2350 ^{[1] mm})	92.5 " (2350 ^{[1] mm})
Performance	5.1	Driving speed load/unload	km/h	8/9	9/10	10/11	10/11
	5.2	Lifting speed load/unload	mm/s	220/280	240/320	260/320	260/320
	5.3	Lowering speed load/unload	mm/s	320/260	330/260	360/290	360/290
	5.4	Straight line maximum gradeability, load/unload (S2-5min)	%(tanθ)	12%	13%	15%	15%
	5.5	Braking type		Electric	Electric	Electric	Electric
	5.6	Parking brake		hydraulic/electric	hydraulic/electric	hydraulic/electric	hydraulic/electric
	5.7	Drive wheel position display		All wheel display	All wheel display	All wheel display	All wheel display
	5.8	Steering		hydraulic	hydraulic	hydraulic/electric	hydraulic/electric
Motor	6.1	Drive motor type		AC-full-time all-wheel drive [2]	AC-full-time multi-drive [2]	AC-timely multi-drive [2]	AC-timely multi-drive [2]
	6.2	Number of drive motors		3	3/2	3/2	3/2
	6.2	Drive motor power (S2-60min)	kw	Σ13 ^[1]	Σ11 ^[1]	Σ9/11 ^[1]	Σ9/11 ^[1]
	6.3	Lifting motor type		AC	AC	AC	AC
	6.4	Lifting motor power, (S3-15%)	kw	25	25	25	25
6.5	Battery voltage/rated capacity (Lithium type)	V/Ah	80V500Ah				
Option als	7.1	Visual aids for blind spot obstacles		Standard	Standard	Standard	Standard
	7.2	Energy Recovery (+15%)		Optional	Optional	Optional	Optional
	7.3	Extra wide distance adjustment fork		Optional	Optional	Optional	Optional
	7.4	Four forks + wide fork frame		Optional	Optional	Optional	Optional
	7.5	Camera + video display		Optional	Optional	Optional	Optional
	7.6	Driving Record		Optional	Optional	Optional	Optional
Remark	【1】 The total safety distance after installing the front and rear guide wheels is 100mm (3.93 in), and each side is 50mm (1.96 in): if the front and rear guide wheels are not added, the safety distance will increase, and the passage at this time will increase accordingly.						
	【2】 The selected model has one or more of the multiple drives, and the system can continuously or intermittently adapt to output and match power sources under specific working conditions.						
	【3】 Combine the driving numbers of the selected models to calculate the effective power released by the truck cumulatively.						
	The parameters listed in the above table are the parameters of standard models, and the above parameters will be changed when non-standard orders are made; the company reserves the right to modify the parameters listed in the above table! ! !						