



MANFORCE Electric Rough Terrain Forklift

3-in-1

Designed for rough terrain application
Perform like an IC forklift
With Li-ion battery



**HANGZHOU MANFORCE MATERIAL
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INTRODUCTION

Manforce is a distinguished forklift manufacturer specializing in Nichi and conventional forklifts, prioritizing rough terrain forklifts, multi-directional side loaders, telehandlers, ICE forklifts, and Li-ION forklifts. With over 25 years in the material handling equipment industry, Manforce excels in engineering design, marketing, after-service, OEM solutions, and industry resource integration. The company consistently delivers innovative solutions tailored to diverse industrial needs.

Manforce's Aspiration

Manforce aims to lead innovation within the forklift industry by solidifying its position as a premier NICHU product manufacturer. The company is committed to continuous investment in product R&D to ensure high cost-effectiveness and superior performance in conventional forklifts. Beyond providing exceptional products and services, Manforce strives to offer comprehensive logistics solutions, thereby adding significant value to all its partners. Their drive for innovation is directly influenced by market dynamics and the evolving needs of industries worldwide.



CONCEPT DESCRIPTION

Intelligent Control Systems

Equipped with advanced control systems like intelligent braking, precise handling, and user-friendly operations. These features enable operators to precisely control the forklift in complex terrains, boosting work efficiency.

Ease of Maintenance

Designed with simplicity and reliability in mind, reducing maintenance costs and time. This includes fewer electric motor components and easily detachable parts, facilitating maintenance and repair tasks.

Driver-centric Cabin

Offers a spacious and comfortable cabin space, ergonomically designed to provide a convenient control and operating experience, reducing operator fatigue.



The Manforce electric rough terrain forklift signifies an efficient, environmentally friendly, and reliable solution for material handling tasks. Its exceptional performance in challenging outdoor environments makes it an ideal choice across various industries.

Versatile Applications

Its multi-functional nature allows exceptional performance in various industrial and outdoor settings. From agriculture and construction to logistics and outdoor operations, it handles a wide range of loading, carrying, and stacking tasks efficiently.

Manforce's electric rough terrain forklift stands out as an ideal solution for efficient material handling tasks in challenging terrains. Its exceptional performance and advanced design excel in outdoor work scenarios, providing a dependable solution for material transport needs.

Eco-friendly and Energy-efficient Design

The Manforce electric rough terrain forklift incorporates an advanced electric drive system, emitting zero exhaust, minimal noise, and vibration, meeting environmental standards. This eco-friendly design reduces environmental impact while ensuring a comfortable working environment for operators.

Adaptability to Diverse Terrains

Specifically designed suspension systems and high-strength chassis enable easy maneuvering across rough and challenging terrains, including muddy, uneven surfaces, and slopes, ensuring stability and reliability.

High Efficiency

The electric drive system ensures reliable and efficient power output, guaranteeing excellent material handling capabilities, thereby enhancing work efficiency and operational flexibility.



GRADEABILITY

Up to **30%** , performance between diesel engine powered 2WD and 4WD, suitable for most of middle-low rough terrain application.

DRIVE SPEED

20 km/hours, the fastest electric forklift in market.

CHARGING TIME

Less than **2** hours, quick charge, high efficiency

OVERALL WIDTH

1450 mm, designed for Orchard constrains.

LIFTING SPEED

380 mm/Sec, perform like a IC engine powered forklift.

LOWERED HEIGHT

2135 mm, allows container and door ways operation.

GROUND CLEARANCE

270 mm, high ground clearance for rough terrain application.

TURNING RADIUS

2730 mm, independent drive wheel, great maneuverability.



Truck Specification

MAINFORCE

General	1	Model				R2B18-Li	R2B25-Li
	2	Power Type				Lithium battery	Lithium battery
	3	Rated capacity			Kg	1800	2500
	4	Load centre			mm	500	500
Characteristic & Dimension	5	Free lift height			mm	105	105
	6	Fork size	L×W×T		mm	1070×100×35	1070×122×35
	7	Fork regulating range	Min./Max.		mm	200-1000	250-1160
	8	Mast tilt angle	F/R		Deg	10/12	10/12
	9	Front overhang			mm	580	580
	10	Rear overhang			mm	475	475
	11	Min.ground clearance			mm	270	270
	12	Overall dimensions	Length to face of fork(without fork)		mm	2871	2871
	13		Overall width		mm	1450	1450
	14		Mast lowered height		mm	2230	2230
	15		Mast extend height(with backrest)		mm	4170	4170
	16		Overhead guard height		mm	2135	2135
	17	Turning radius			mm	2870	2870
	18	Min.right angle stacking aisle width		a=1000,b=1200	mm	4860	4860
	a=1200,b=800			mm	4460	4460	
Performance	20	Speed	Travel(laden/Unladen)		Km/h	18/20	18/20
	21		Lifting(Laden)		mm/s	380	350
	22		Lowering(Laden)		mm/s	400	410
	23	Max.Drawbar pull(Laden)			KN	30	30
	24	Max.Gradeability(Laden)			%	30	25
Tyre	25	Tyre	Front		12-16.5-12PR	12-16.5-12PR	
	26		Rear		27x10-12 -12PR	27x10-12 -12PR	
	27	Tread	Front	mm	1143	1143	
	28		Rear	mm	1205	1205	
	29	Wheelbase			mm	1840	1840
Weight	30	Self weight			Kg	3490	4080
	31	Weight Distribution	Laden	Front axle	Kg	4620	5800
	32			Rear axle	Kg	770	780
	33		Unladen	Front axle	Kg	1390	1700
	34			Rear axle	Kg	2100	2380
Power&Transmising	35	Battery		Voltage/Capacity	V/Ah	80/230	76.8/350
	36	motor	Manufacture			Superec	Superec
	37		Rated power		Kw	10	10
	38		Nominal voltage		V	50	50
	39		Rated speed		Rpm	2050	2050
	40		TMAX		N.m	170	170
	41	Transmission	Manufacture			PMP	PMP
	42		Input power		Kw	7-8	7-8
	43		Max input speed		Rpm	4400	4400
	44		Max continuous output torque		N.m	3000	3000
	45	Operating pressure			Mpa	14.5	17.5

Mast Specification

MAINFORCE

MAST		TYPE	LIFTING HEIGHT ON FORK (mm)	OVERALL HEIGHT MAST LOWERED (mm)	FREE LIFT ON FORKS (mm)		MAST TILTING ANGLE FRONT/REAR	CAPACITY AT MAX.HEIGHT (Kg)	
					WITH Bracket	WITNOUT Bracket		WITHOUT SIDE SHIFT CARRIAGE	WITH SIDE SHIFT CARRIAGE
Wide View 2 stage mast	3.00m	2.5T	3000	2230	165	165	10/12°	2500	2500
		1.8T		2230	165	165	10/12°	1800	1800
	3.30m	2.5T	3300	2380	165	165	10/12°	2500	2500
		1.8T		2230	165	165	10/12°	1800	1800
	3.50m	2.5T	3500	2485	165	165	10/12°	2500	2500
		1.8T		2485	165	165	10/12°	1800	1800
	3.70m	2.5T	3700	2580	165	165	10/12°	2500	2500
		1.8T		2580	165	165	10/12°	1800	1800
	4.00m	2.5T	4000	2780	165	165	10/12°	2500	2500
		1.8T		2780	165	165	10/12°	1800	1800
	4.5m	2.5T	4500	3030	165	165	10/12°	2200	2100
		1.8T		3030	165	165	10/12°	1500	1400
Full free 3 stage mast	3.70m	2.5T	3700	1985	783	1245	10/12°	2500	2400
		1.8T		1985	783	1245	10/12°	1800	1800
	4.00m	2.5T	4000	2075	893	1338	10/12°	2500	2400
		1.8T		2075	893	1338	10/12°	1800	1800
	4.35m	2.5T	4350	2200	1018	1463	10/12°	2400	2200
		1.8T		2200	1018	1463	10/12°	1800	1700
	4.70m	2.5T	4700	2315	1133	1578	10/12°	2100	1900
		1.8T		2315	1133	1578	10/12°	1650	1450
	5m	2.5T	5000	2450	1268	1716	6/6°	1900	1700
		1.8T		2450	1268	1716	6/6°	1500	1300
	5.5m	2.5T	5500	2615	1433	1878	6/6°	1600	1400
		1.8T		2615	1433	1878	6/6°	1200	1000
	6m	2.5T	6000	2800	1618	2063	6/6°	1200	1000
		1.8T		2800	1618	2063	6/6°	800	600
	6.5m	2.5T	6500	3015	1833	2278	6/6°	700	500
		1.8T		3015	1833	2278	6/6°	500	300

