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UN FORKLIFT

**4x2  
4x4**

**ROUGH TERRAIN  
FORKLIFT TRUCK (2.5-3.5TON)**

[www.unforklift.com](http://www.unforklift.com)  
**EFFICIENT/POWERFUL**  
**THE UN FORKLIFT TRUCK**

# N Series 2WD & 4WD Rough Terrain Forklift

## Capacity 2,500 to 3,500kg

UN's newly designed 2WD & 4WD rough terrain forklifts with compact design and powerful off-road capability make them ideal for most of the tough applications. Such as construction, forestry, mining, agriculture and other industries with different ground conditions and weather conditions. With mature and reliable transmission and axle technology, UN rough terrain allows customers to handle the loads with precision, safety and greater comfort. And it will definitely increase your productivity and become your reliable partner in tough job.

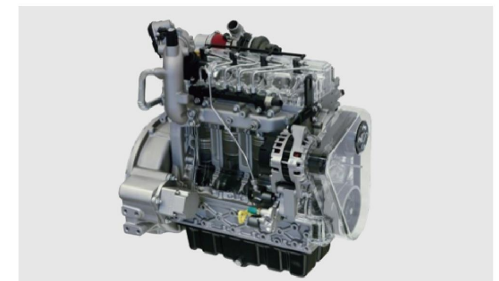


## PRODUCTIVITY & MANEUVERABILITY



### High Ground Clearance

2WD-High ground clearance up to 270mm.  
4WD-High ground clearance up to 300mm.



### Stage V / Tire4F Engine

Several durable and powerful engines are available for it, including the Euro & US market.



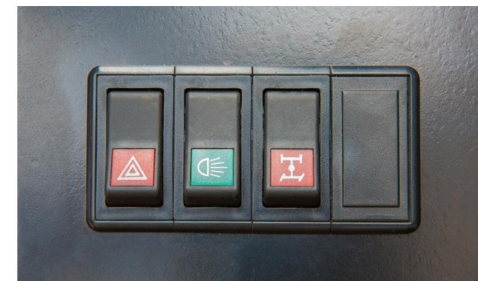
### Differential lock

2WD RTF has 100% differential lock.  
4WD RTF has 45% differential lock in both front and rear axle, so it could work well in slippery or muddy area.



### Strong Gradeability

The Gradeability of 4WD is up to 60%, which makes it easy to work on big slopes.



### 2WD/4WD Switch

The 4WD mode is particularly suitable for tough area, and it can be switched to 2WD mode if 4WD is unnecessary, which saves energy and extends the life of the transmission.



### Special Tires

Large size deep pattern off-road vacuum tire with excellent off-road capability and shock absorption performance.

# COMFORT & ERGONOMICS



## Super Visibility

Wide view mast ensures super visibility.



## Suspension OHG

Tough and suspension OHG protect the operator and reduce the vibration.



## Ergonomics Operation

The adjustable seat and steering wheel, as well as the ergonomic operating lever, are designed for comfortable operation.



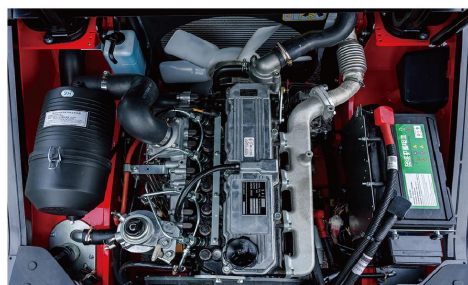
## Rear hand rail with horn

Forklifts often reverse at work, this rear hand rail with horn will make reversing safer.



## Large Steering Angle

The large steering angle (small turning radius) and compact structure design make the forklift could work well even if in space restricted area.



## Easy Maintenance

Nearly 90-degree engine hood makes daily maintenance easier, all parts can be reached quickly.

# 4WD ROUGH TERRAIN FORKLIFT MAIN SPECIFICATIONS

		UN									
		FD25T-DNJM1	FD30T-DNJM1	FD35T-DNJM1	FD25T-DNJE1	FD30T-DNJE1	FD35T-DNJE1	FD25T-DNJS1	FD30T-DNJS1	FD35T-DNJS1	
General	1 Manufacturer	UN									
	2 Model										
	3 Power Type	Diesel									
	4 Rated Load Capacity	Q(kg)	2500	3000	3500	2500	3000	3500	2500	3000	3500
	5 Load Centre	C(mm)	500								
	6 Rated Lift Height	H3(mm)	3000								
	7 Free Lift Height	H2(mm)	160	165	160	160	165	160	165	160	165
	8 Fork Size (L*W*T)	mm	1070*122*45	1070*125*50	1070*122*45	1070*122*45	1070*125*50	1070*122*45	1070*122*45	1070*125*50	1070*125*50
	9 Mast Tilt Angle (F/R, α/β°)	deg	10°/12°								
	Characteristic & Dimension	10 Fork Overhang (Wheel Center to Fork Face)	X1(mm)	585	605	585	585	605	585	605	605
11 Rear Overhang		X2(mm)	615								
12 Ground Clearance (Bottom of Mast)		H7(mm)	275								
13 Length to Face of Fork (Without Fork)		L1(mm)	3080	3100	3080	3080	3100	3080	3100	3100	
14 Overall Width		B1(mm)	1600								
15 Mast Lowered Height		H1(mm)	2215	2330	2215	2215	2330	2215	2330	2215	2330
16 Mast Extended Height (With Backrest)		H4(mm)	4122	4305	4122	4122	4305	4122	4305	4122	4305
17 Overhead Guard Height		H5(mm)	2256	2276	2256	2256	2276	2256	2276	2256	2276
18 Turning Radius (Outside)		Wa(mm)	3150								
19 Min.Aisle width for pallets		As1(mm)	4735	4750	4735	4735	4750	4735	4750	4735	4750
Performance	20 Travel Speed (Laden/Unladen)	km/h	17/18								
	21 Lifting Speed (Laden/Unladen)	mm/sec	560/600	520/560	470/500	600/650	530/560	480/510	600/650	530/560	480/510
	22 Lowering Speed (Laden/Unladen)	mm/sec	No Load:300 Full Load:600								
	23 Max. Drawbar Pull (Laden)	KN	38								
24 Max. Gradeability (Laden)	%	50	45	50	50	45	50	50	45	50	
Chassis	25 Tyre (Front x 2)	mm	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	
	26 Tyre (Rear x 2)	mm	10.0/775-15.3								
	27 Front Tread	B2(mm)	1250								
	28 Rear Tread	B3(mm)	1190								
	29 Wheelbase	Y(mm)	1880								
Weight	30 Total Weight	kg	4820	5300	5450	4820	5300	5450	4820	5300	5450
	31 Front Axle Weight Distribution (Full Load)	kg	6592	7265	7764	6592	7265	7764	6592	7265	7764
	32 Rear Axle Weight Distribution (Full Load)	kg	728	1035	1186	728	1035	1186	728	1035	1186
	33 Front Axle Weight Distribution (No Load)	kg	2165	2390	2430	2165	2390	2430	2165	2390	2430
	34 Rear Axle Weight Distribution (No Load)	kg	2655	2910	3020	2655	2910	3020	2655	2910	3020
Power & Transmission	35 Battery	V/Ah	12/90								
	36 Engine Model		S4S			4TNE98			D24(EU Stage V / Tier 4 Final)		
	37 Engine Manufacturer		MITSUBISHI			YANMAR			HYUNDAI		
	38 Rated Output / r.p.m.	kw	35.3/2250			43/2300			48.2/2600		
	39 Rated Torque / r.p.m.	N.m	177/1700			177.6-196.3/1700			214/1600		
	40 No. of Cylinder		4								
	41 Bore x Stroke	mm	94*120			98*110			90*94		
	42 Displacement	cc	3.331			3.319			2.392		
	43 Fuel Tank Capacity	L	55								
	44 Transmission Type		HYDRAULIC								
45 Transmission Stage (FWD/RVS)		2/1									
46 Operating Pressure (For Attachments)	Mpa	20									

Specifications and characteristics are subject to change without notice.

# MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)		Overall Height (mm)								Free Lift (mm)				Tilt Angle (Single)	Weight (Kg)		
					Lowered				Extended				Without Backrest		With Backrest					
					2.5T	3.5T	2.5T	3.5T	2.5T	3.5T	2.5T	3.5T	2.5T	3.5T	2.5T	3.5T				
Wide View Mast	M300	3000	2500	3500	2235	2330	3675	3840	4130	4320	105	165	105	165	10°/12°	4820	5300	5450		
	M330	3300	2500	3500	2385	2480	3975	4140	4430	4620	105	165	105	165	10°/12°	4850	5330	5480		
	M350	3500	2500	3500	2485	2580	4175	4340	4630	4820	105	165	105	165	10°/12°	4870	5350	5500		
	M370	3700	2500	3500	2585	2680	4375	4540	4830	5020	105	165	105	165	10°/12°	4880	5380	5510		
	M400	4000	2500	3400	2785	2880	4675	4840	5130	5320	105	165	105	165	10°/12°	4920	5400	5550		
	M450	4500	2200	3100	3035	3130	5175	5340	5630	5820	105	165	105	165	10°/12°	5015	5495	5645		
3 Stage Full Free Wide View Mast	TFM400	4000	2500	3400	2080	2210	4767	4845	5222	5232	1345	1394	890	1010	10°/12°	5095	5575	5725		
	TFM435	4350	2400	3000	2205	2335	5115	5205	5570	5590	1470	1519	1015	1135	10°/12°	5135	5615	5765		
	TFM470	4700	2100	2800	2320	2450	5455	5545	5910	5930	1585	1634	1130	1250	10°/12°	5170	5650	5800		
	TFM500	5000	1900	2600	2455	2585	5765	5855	6220	6240	1720	1769	1285	1385	6°/6°	5205	5685	5835		
	TFM550	5500	1500	2300	2620	2750	6265	6350	6720	6735	1885	1934	1430	1550	6°/6°	5250	5730	5880		
	TFM600	6000	1200	1900	2805	2935	6765	6855	7220	7240	2070	2119	1615	1735	6°/6°	5305	5785	5935		

With side shifter, load capacity subtract 200Kg.

## 2WD ROUGH TERRAIN FORKLIFT MAIN SPECIFICATIONS

		UN												
		FD25T-CNJM1	FD30T-CNJM1	FD35T-CNJM1	FD25T-CNGA7	FD30T-CNGA7	FD35T-CNGA7	FD25T-CNJE1	FD30T-CNJE1	FD35T-CNJE1	FD25T-CNJS1	FD30T-CNJS1	FD35T-CNJS1	
General	1 Manufacturer	UN												
	2 Model													
	3 Power Type	Diesel												
	4 Rated Load Capacity	Q(kg)	2500	3000	3500	2500	3000	3500	2500	3000	3500	2500	3000	3500
	5 Load Centre	C(mm)	500											
	6 Rated Lift Height	H3(mm)	3000											
	7 Free Lift Height	H2(mm)	160	165	160	165	160	165	160	165	160	165	160	165
	8 Fork Size (LxWxT)	mm	1070x122x45	1070x125x50	1070x122x45	1070x125x50	1070x122x45	1070x125x50	1070x122x45	1070x125x50	1070x122x45	1070x125x50	1070x122x45	1070x125x50
	9 Mast Tilt Angle (F/R, α/β°)	deg	10°/12°											
	10 Fork Overhang (Wheel Center to Fork Face)	X1(mm)	585	605	585	605	585	605	585	605	585	605	585	605
	11 Rear Overhang	X2(mm)	520											
	12 Ground Clearance (Bottom of Mast)	H7(mm)	275											
	13 Length to Face of Fork (Without Fork)	L1(mm)	2985	3005	2985	3005	2985	3005	2985	3005	2985	3005	2985	3005
	14 Overall Width	B1(mm)	1600											
	15 Mast Lowered Height	H1(mm)	2215	2330	2215	2330	2215	2330	2215	2330	2215	2330	2215	2330
	16 Mast Extended Height (With Backrest)	H4(mm)	4122	4305	4122	4305	4122	4305	4122	4305	4122	4305	4122	4305
	17 Overhead Guard Height	H5(mm)	2256	2276	2256	2276	2256	2276	2256	2276	2256	2276	2256	2276
	18 Turning Radius (Outside)	Wa(mm)	2900											
	19 Min.Aisle width for pallets	Ast(mm)	4730											
Performance	20 Travel Speed (Laden/Unladen)	km/h	17/18											
	21 Lifting Speed (Laden/Unladen)	mm/sec	580/600	450/540	580/600	450/540	580/600	450/540	580/600	450/540	580/600	450/540	580/600	450/540
	22 Lowering Speed (Laden/Unladen)	mm/sec	No Load≥300 Full Load≤600											
	23 Max Drawbar Pull (Laden/Unladen)	KN	21/17											
	24 Max Gradesability (Laden)	%	20											
Chassis	25 Tyre (Front x 2)	mm	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR	12-16.5-12PR	14-17.5-14PR
	26 Tyre (Rear x 2)	mm	27X10-12-12PR(Tube Tyres) / 27X10.5-15(Tubeless Tyres)											
	27 Front Tread	B2(mm)	1250											
	28 Rear Tread	B3(mm)	1205											
	29 Wheelbase	Y(mm)	1880											
Weight	30 Total Weight	kg	4215	4845	5135	4215	4845	5135	4215	4845	5135	4215	4845	5135
	31 Front Axle Weight Distribution (Full Load)	kg	5780	6880	7680	5780	6880	7680	5780	6880	7680	5780	6880	7680
	32 Rear Axle Weight Distribution (Full Load)	kg	935	965	955	935	965	955	935	965	955	935	965	955
	33 Front Axle Weight Distribution (No Load)	kg	1820	1990	2110	1820	1990	2110	1820	1990	2110	1820	1990	2110
	34 Rear Axle Weight Distribution (No Load)	kg	2395	2855	3025	2395	2855	3025	2395	2855	3025	2395	2855	3025
Power & Transmission	35 Battery	V/Ah	12/90											
	36 Engine Model		S4S			A498BPG			4TNE98			D24(EU Stage V / Tier 4 Final)		
	37 Engine Manufacturer		MITSUBISHI			XINCHAI			YANMAR			HYUNDAI		
	38 Rated Output / r.p.m.	kw	35.3/2250			45/2500			43/2300			48.2/2600		
	39 Rated Torque / r.p.m.	N·m	177/1700			193/1800			177.6-196.3/1700			214/1600		
	40 No. of Cylinder		4											
	41 Bore x Stroke	mm	94x120			98x105			98x110			90x94		
	42 Displacement	cc	3.331			3.168			3.319			2.392		
	43 Fuel Tank Capacity	L	55											
	44 Transmission Type		HYDRAULIC											
	45 Transmission Stage (FWD/RVS)		1/1											
	46 Operating Pressure (For Attachments)	Mpa	20											

Specifications and characteristics are subject to change without notice.

## MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)		Overall Height (mm)								Free Lift (mm)				Tilt Angle (Single)	Weight (Kg)		
					Lowered		Extended				Without Backrest		With Backrest		2.5T	3.0T		3.5T		
					2.5T	3.5T	2.5T	3.5T	2.5T	3.5T	2.5T	3.5T	2.5T	3.5T						
Wide View Mast	M300	3000	2500	3500	2235	2330	3675	3840	4130	4320	105	165	105	165	10°/12°	4350	4845	5135		
	M330	3300	2500	3500	2385	2480	3975	4140	4430	4620	105	165	105	165	10°/12°	4380	4875	5165		
	M350	3500	2500	3500	2485	2580	4175	4340	4630	4820	105	165	105	165	10°/12°	4400	4895	5185		
	M370	3700	2500	3500	2585	2680	4375	4540	4830	5020	105	165	105	165	10°/12°	4410	4905	5195		
	M400	4000	2500	3400	2785	2880	4675	4840	5130	5320	105	165	105	165	10°/12°	4450	4945	5235		
3 Stage Full Free Wide View Mast	M450	4500	2200	3100	3035	3130	5175	5340	5630	5820	105	165	105	165	10°/12°	4545	5040	5330		
	TFM400	4000	2500	3400	2080	2210	4767	4845	5222	5232	1345	1394	890	1010	10°/12°	4575	5070	5380		
	TFM435	4350	2400	3000	2205	2335	5115	5205	5570	5590	1470	1519	1015	1135	10°/12°	4615	5110	5400		
	TFM470	4700	2100	2800	2320	2450	5455	5545	5910	5930	1585	1634	1130	1250	10°/12°	4650	5145	5435		
	TFM500	5000	1900	2600	2455	2585	5765	5855	6220	6240	1720	1769	1265	1385	6°/6°	4685	5180	5470		
	TFM550	5500	1500	2300	2620	2750	6265	6350	6720	6735	1885	1934	1430	1550	6°/6°	4730	5225	5515		
	TFM600	6000	1200	1900	2805	2935	6765	6855	7220	7240	2070	2119	1615	1735	6°/6°	4785	5280	5570		

With side shifter, load capacity subtract 200kg.

### XINCHAI

Model: A498BPG  
 Rated output: 45KW/2500RPM  
 Rated torque: 193N.M/1600-1900RPM  
 No. of cylinder: 4  
 Bore x Stroke: 98x105MM  
 Displacement: 3.168L

### MITSUBISHI

Model: S4S  
 Rated output: 35.3KW/2250RPM  
 Rated torque: 177N.M/1700RPM  
 No. of cylinder: 4  
 Bore x Stroke: 94x120MM  
 Displacement: 3.331L

### KUBOTA

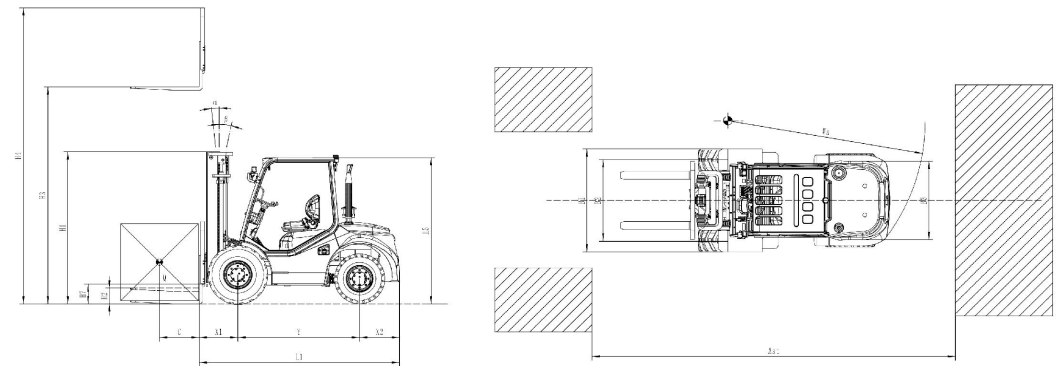
Model: V2403-CR-TE5 Stage V/ Tier4F  
 Rated output: 42.6KW/2400RPM  
 Rated torque: 195.6N.M/1500RPM  
 No. of cylinder: 4  
 Bore x Stroke: 87x102.4MM  
 Displacement: 2.434L

### YANMAR

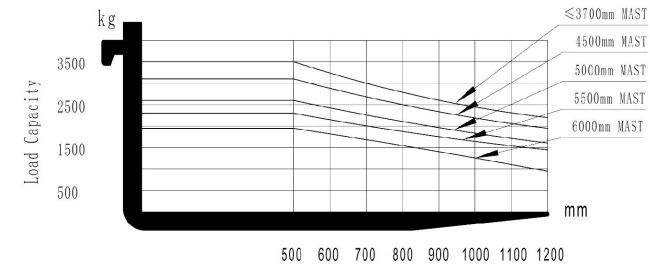
Model: 4TNE98  
 Rated output: 42.1KW/2300RPM  
 Rated torque: 186-206N. M/1700RPM  
 No. of cylinder: 4  
 Bore x Stroke: 98x110MM  
 Displacement: 3.318L

### HYUNDAI

Model: D24(DM02VB Stage V/ Tier4F)  
 Rated output: 48.2KW/2600RPM  
 Rated torque: 214N.M/1600RPM  
 Rated torque: 4  
 Bore x Stroke: 90x94MM  
 Displacement: 2.392L



SUBTRACT 200kg WITH SIDESHIFTER



Load Center Load Curve