



2WD/4WD Rough Terrain Forklift

with capacities of 5,000kg



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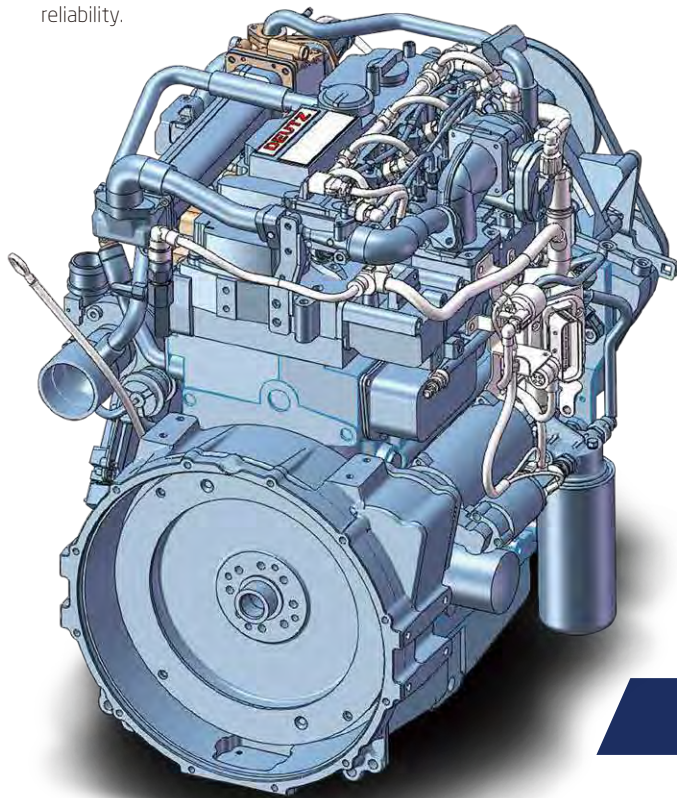


ALVOX be with you at every stage

Efficient, reliable solutions for your demands

STAGE V

With ALVOX you can meet all Stage V emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, turbocharged Inter-cooled ,EGR + DOC + DPF. Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.



DEUTZ



Used for Deutz engine



Interactive instrument: The instrument has CAN bus communication function. The communication protocol is compatible with CANopen and SAE J1939 standards.

Powerful/
Efficient/
Reliable



ALVOX Forklift with StageV

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)	Service brake
1	5.0t	RT	DEUTZ	TCD 3.6 L4 EU Stage V	Diesel	CPCD50-XW95E-RT2	Stage V	China	55.4/2300	Hydraulic
2	5.0t	RT	DEUTZ	TCD 3.6 L4 EU Stage V	Diesel	CPCD50-XW95C-RT4	Stage V	China	55.4/2300	Hydraulic

Note: Stage V applied for European Union also including Israel and Turkey

CONCEPT

ALVOX 5t rough terrain forklift with 2WD/4WD was developed on the basis of the XF series of ALVOX. It adopts the Deutz and Cummins engine, which is powerful and reliable, easy to maintain; It can adapt to the rugged roads in the stone market, timber market, construction sites, etc., as well as the wet and slippery roads in rain and snow.

2WD
ROUGH TERRAIN

4WD
ROUGH TERRAIN



Safety

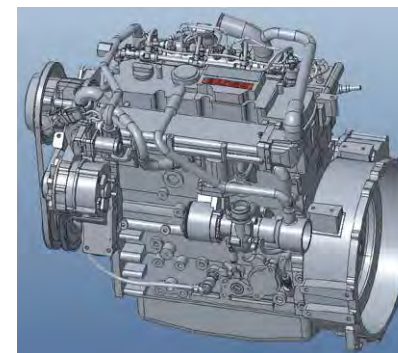
- / Thanks to the steering oil circuit and the brake oil circuit are independent of each other, thereby reducing the interference of the brake on the steering, the hydraulic braking system is very safe.
- / With the structure of brake valve plus the accumulator, it is safer and reliable.
- / The returned oil filtration device is taken as the standard configuration to extend the service life of the hydraulic elements.
- / OPS function is available for option, work is safer and reliable.

Comfort

- / With the suspension and integrated overhead guard, full-floating transmission, complex engine shock absorber and suspension seat, driving is more comfortable, and the vibration and noise of the truck can be reduced.
- / The extra foot space is provided to reduce operator fatigue significantly, non-slip step makes getting in and out easy and safe. The new designed steering wheel, new brake system and the easy-to-operate levers provide total handling operation.
- / Excellent upward visibility is provided by a large roof screen, in fact, visibility all-round is excellent.

Powerful and reliable engine

- / The 3.6-litre DEUTZ EURO III B/Tier4F-compliant engine produces its peak power (74.3hp/55.4kW) and torque (390Nm) at engine speeds as low as 1300 rpm for great responsiveness.



Easy maintenance

- / The two-piece design makes the floorboard easy to lift and remove for access to the power train.
- / The radiator cover can be turned easily by hand to enable quick inspections or servicing.



The easy-to-open hook provides quick access to the engine compartment



Three forward gears- Suspension hydraulic transmission with three forward gears, top speed reach 25km/h



Oscillating steer axle allows either wheel to step over obstacles keeping the truck and load level



To achieve maximum productivity, a rough terrain forklift operator needs to be comfortable and in control. We've created a workplace that gets the best from your operators and your machinery

Reliability

- / The reinforced truck chassis with CAE simulation software, optimized design is conducted for the tilt cylinder and steering drive axle installation.
- / Dual air filters and two-stage air filter are taken as the standard configuration to guarantee that the engine can operate for long time and under the optimal status.
- / Deutz engine adopt, "TCI+CR+EGR+DOC" technical route. Adopt EURO III B/Tier4F emission can be met, and it is energy-saving and environment-friendly; A turbo engine further enhances performance at low engine speeds for improved power and tractive effort.



The differential is specifically designed for rough terrain and features manual differential lock providing ultimate traction during inclement weather conditions and rough operating surfaces, it differerntial lock prevents power loose when one wheel spins.



Full-floating hydraulic drive gear box has the function of switching between 2WD and 4WD, and can provide higher run speed and stronger climbing ability;

Higher specification fork mounting level-3B, more weight can be loaded.



Front tyre

Rear tyre



Productivity

The transmission system gets the maximum performance from the engine without reaching high revolutions, which provides fuel saving, noise level reduction and engine life increase.



The new Dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic and improve energy efficiency.



The new efficiency lighting system employs LED illuminant and new type reflector to reduce energy consumption, improve significantly illumination performance and prolong work time.



Wet brake offers maximum service life for your brake system.

Maneuverability

The distance to ground is 370mm, it offers greater maneuverability and keep the truck moving in the roughest of applications, and yet we keep a very low center of gravity, by using a distributed weight in the forklift, giving it an excellent stability.





Standard specification

- / Counterweight cover
- / Full-suspension seat
- / Dual air filters
- / High-position exhaust
- / Fuel tank cover (with lock)
- / Fan protection device
- / Rear working light
- / Alarm light
- / Emergency switch
- / Right and left reflective mirrors
- / PVC ceiling
- / Wet brake

Options

- / Front windshield and wipers
- / Cab (warm air blower and fan are available for option)
- / Solid tyre
- / Engine cover with lock
- / Engine cover with dual sound insulation cushion
- / Engine cover with lock+ dual sound insulation cushion
- / Mud baffle provided with rigging hole
- / 3rd/4th/5th valve
- / Voice type reversing buzzer
- / Blue light lamp
- / Low-temperature cold start-up battery (-20 °C)
- / OPS system
- / OPS system & Compatible with Sequential Seat Belt Interlock System



2WD/4WD Rough Terrain Forklift

Distinguishing mark	1.1	Manufacturer		ALVOX					
	1.2	Manufacturer's type designation		CPCD50-XW65C-RT4	CPCD50-XW70C-RT4	CPCD50-XW95C-RT4	CPCD50-XW65E-RT2	CPCD50-XW70E-RT2	CPCD50-XW95E-RT2
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	5000	5000	5000	5000	5000	5000
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	735	735	735	735	735	735
	1.9	Wheelbase	y (mm)	2150	2150	2150	2150	2150	2150
Weight	2.1	Service Weight	kg	9050	9050	9050	9050	9050	9050
	2.2	Axle loading, laden front/rear	kg	12300/1750	12300/1750	12300/1750	12300/1750	12300/1750	12300/1750
	2.3	Axle loading, unladen front/rear	kg	4280/4770	4280/4770	4280/4770	4280/4770	4280/4770	4280/4770
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tyre size, front		445/65-22.5	445/65-22.5	445/65-22.5	445/65-22.5	445/65-22.5	445/65-22.5
	3.3	Tyre size, rear		12.5/80-18	12.5/80-18	12.5/80-18	12.5/80-18	12.5/80-18	12.5/80-18
	3.5	Wheels, number front / rear (x = driven wheels)		4x4	4x4	4x4	4x2	4x2	4x2
	3.6	Tread, front	b10 (mm)	1660	1660	1660	1660	1660	1660
	3.7	Tread, rear	b11 (mm)	1760	1760	1760	1760	1760	1760
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha / \beta (^{\circ})$	15/15	15/15	15/15	15/15	15/15	15/15
	4.2	Height, mast lowered	h1 (mm)	2685	2685	2685	2685	2685	2685
	4.3	Free lift	h2 (mm)	260	260	260	260	260	260
	4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	4534	4534	4534	4534	4534	4534
	4.7	Height of overhead guard (cabin)	h6 (mm)	2575	2575	2575	2575	2575	2575
	4.19	Overall length	l1 (mm)	4865	4865	4865	4865	4865	4865
	4.20	Length to face of forks	l2 (mm)	3665	3665	3665	3665	3665	3665
	4.21	Overall width	b1 (mm)	2105	2105	2105	2105	2105	2105
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	60×150×1220	60×150×1220	60×150×1220	60×150×1220	60×150×1220	60×150×1220
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		B	B	B	B	B	B
	4.24	Fork-carriage width	b3 (mm)	1950	1950	1950	1950	1950	1950
	4.25	Distance between fork-arms	b5 (mm)	290-1950	290-1950	290-1950	290-1950	290-1950	290-1950
	4.31	Ground clearance, laden, below mast	m1 (mm)	385	385	385	385	385	385
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	370	370	370	370	370	370
	4.34	Aisle width	Ast (mm)	6305	6305	6305	6305	6305	6305
	4.35	Turning radius	Wa (mm)	4150	4150	4150	3550	3550	3550
Performance Data	5.1	Travel speed, laden/unladen	km/h	25/25	25/25	25/25	25/25	25/25	25/25
	5.2	Lift speed, laden	m/s	0.45/0.52	0.45/0.52	0.45/0.52	0.45/0.52	0.45/0.52	0.45/0.52
	5.3	Lowering speed, laden	m/s	0.5/0.43	0.5/0.43	0.5/0.43	0.5/0.43	0.5/0.43	0.5/0.43
	5.5	Drawbar pull, laden	N	85000	95000	86000	77000	82000	78000
	5.7	Gradeability, laden	%	45	55	45	39	42	41
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
		Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Combustion-engine	7.1	Engine manufacturer/type		DEUTZ TCD 3.6 L4	QSF3.8t3TC115	DEUTZ TCD 3.6 L4	DEUTZ TCD 3.6 L4	QSF3.8t3TC115	DEUTZ TCD 3.6 L4
		Emission STD		EURO IIIB/Tier4F	EURO IIIA/GB3	EURO Stage V	EURO IIIB/Tier4F	EURO IIIA/GB3	EURO Stage V
	7.2	Engine power according to DIN ISO 1585	kw/t/min	55.4/2300	86/2200	55.4/2300	55.4/2300	86/2200	55.4/2300
	7.3	Rated speed	N·m/t/min	390/1300	470/1100-1700	405/1300	390/1300	470/1100-1700	405/1300
	7.4	Number of cylinders/displacement	(-)/(cm³)	4/3620	4/3760	4/3620	4/3620	4/3760	4/3620
	7.10	Battery voltage/nominal capacity	V/Ah	24/90	24/90	24/90	24/90	24/90	24/90
Addition data	10.3	Hydraulic Tank - capacity (drain & refill)	liter	115	115	115	115	115	115
	10.4	Fuel tank capacity	liter	120	120	120	120	120	120

5t Mast: (pneumatic)

Type	Model	Max.fork height	Overall height				Free lift		Front Overhang	Tilt range		Capacity max height Load Center 600mm		Capacity max height Load Center 24in(600mm)	
			Lowered (mm)	Extended		Without backrest (mm)	With backrest (mm)	ISO 22915-2 Counterbalanced trucks with mast				ISO 22915-13 Rough-terrain trucks with mast	ISO 22915-2 Counterbalanced trucks with mast	ISO 22915-13 Rough-terrain trucks with mast	
				Without backrest (mm)	With backrest (mm)										
				mm	5t					5t	5t				5t
Wide view mast	RTC50M300	3000	2685	4183	4534	160	160	735	15	15	5000	4700	11000(5000)	10360(4700)	
	RTC50M330	3300	2835	4483	4834	160	160	735	15	15	5000	4700	11000(5000)	10360(4700)	
	RTC50M350	3500	2935	4683	5034	160	160	735	15	15	5000	4700	11000(5000)	10360(4700)	
	RTC50M370	3700	3035	4883	5234	160	160	735	15	15	5000	4700	11000(5000)	10360(4700)	
	RTC50M400	4000	3185	5183	5534	160	160	735	15	15	5000	4700	11000(5000)	10360(4700)	
	RTC50M450	4500	3485	5685	6034	160	160	735	15	15	4600	4100	10140(4600)	9040(4100)	
	RTC50M500	5000	3735	6185	6534	160	160	735	15	15	4100	3650	9040(4100)	8050(3650)	
Wide view full free triplex mast	RTC50N400	4000	2760	5470	5534	1300	1051	804	15	15	5000	4000	11000(5000)	8820(4000)	
	RTC50N430	4300	2850	5740	5834	1420	1141	804	15	15	4700	3800	10360(4700)	8380(3800)	
	RTC50N450	4500	2910	5920	6034	1500	1201	804	15	15	4300	3300	9480(4300)	7275(3300)	
	RTC50N480	4800	3010	6220	6334	1600	1301	804	15	15	3700	3000	8160(3700)	6610(3000)	
	RTC50N500	5000	3060	6399	6534	1671	1351	804	10	15	3300	2700	7275(3300)	5950(2700)	
	RTC50N550	5500	3260	6970	7034	1800	1551	804	10	15	2400	1900	5290(2400)	4190(1900)	
	RTC50N600	6000	3410	7420	7534	2000	1701	804	10	15	2000	1700	4410(2000)	3750(1700)	

Note: ISO 22915-2 for industrial use; ISO 22915-13 for rough terrain use.

