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Four-Wheel Drive Rough Terrain Forklift

with capacities of 11,000lbs



Making Material Handling Easier

CONCEPT

The Hangcha 11,000lb rough terrain forklift with 4WD was developed from the XF Series forklifts that Hangcha Group manufactures. It uses the reliable Cummins diesel engine to give it the power needed to navigate through any terrain. This forklift, with a 11,000lb load capacity, easily navigates through the rugged roads found in the stone industry, lumber industry, and at construction sites. The 4WD system works with the unique tire tread to provide traction in wet and slippery conditions. The 11,000lb rough terrain forklift, because the road isn't always smooth.



Safety

- / The steering hydraulic circuit and the brake hydraulic circuit are independent of each other reducing the interference between the braking and steering systems. This creates a safer hydraulic braking system.
- / Designed with an accumulator, the valve in the braking system is now safer and more reliable.
- / The optional Operator Presence Sensing (OPS) system will cut off all actions of the mast and running actions of the truck to increase safety when the operator leaves the seat.

Comfort

- / Working in unison, the suspension, overhead guard, full-floating transmission, engine shock absorbers, and the suspension seat provide a comfortable working environment with reduced noise and vibrations.
- / The extra foot space is provided to significantly reduce operator fatique.
- The non-slip step makes getting in and out of the forklift easy and safe.
- A newly designed steering wheel, new brake system, and easy-to-operate levers provide the operator with comfortable operating experience.
- / This forklift is designed to provide excellent all around visibility. Upward visibility is also great thanks to redesigned overhead guard.

Easy Maintenance

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





The easy-to-open maintenance hatch provides



reach a top speed of 15.5 miles per hour.



The large instrument display panel is attached to the overhead guard for clear visibility.



The oscillating steer axle allows either wheel to step over obstacles while keeping the truck and level



To achieve maximum productivity, a rough terral 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

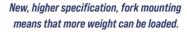
- / The truck chassis was reinforced using CAE simulation software. The tilt cylinder and steering drive axle were also optimally designed using this
- / Dual air filters and a two-stage air filter are the standard configuration to quarantee that the engine can operate reliably for a long time.
- / Deutz engine adopted the "TCI+CR+EGR+DOC" technical route so that Tier 4F emissions can be met. This is both energy-saving and environmentally friendly. Being a turbocharged engine further enhances engine performance at low RPMs for improved power and tractive efforts.
- / The oil filtration return device is part of the standard configuration to extend the service life of the truck's hydraulic elements.



This rough terrain forklift features a manual locking differential to provide traction during inclement weather conditions and on rough operating surfaces. The operator locks the differential by pressing the switch. This prevents power loss when one wheel spins.



The full-floating hydraulic drive gearbox has the function of switching between 2WD and 4WD, provides a higher running speed, and has a stronger climbing ability.









Productivity

The transmission system is geared to get the maximum performance from the Cummins diesel engine without reaching a high RPM. This improves fuel consumption, a reduction in noise, and increases the engine's life.



The new dynamic load sensing hydraulic steering system improves hydraulic efficiency and reliability.









Wet brakes offer the maximum amount of service life for your brake system without sacrificing stopping power.

Maneuverability

The 11,000lb Rough Terrain forklift has a ground clearance of 14.6". This keeps the truck moving through the roughest of applications. Hangcha Group also designed it to have a very low center of gravity by distributing the weight in the forklift. This gives it excellent stability when navigating through tough terrain.





Standard Specification

- / Counterweight Grill
- / Full Suspension Seat
- / Pre-Cleaner
- / Overhead Guard Exhaust
- / Fuel Tank Cap (with lock)
- / Fan Protection Device
- / Rear Workling Light
- / Strobe Light
- / Emergency Switch
- / Right and Left Reflective Mirrors
- / PVC Roof
- / Wet Brakes
- / Reverse Grip with Horn
- / Operator Presence Sensing System (OPS)

Options

- / Front Windshield and Wipers
- / Full Cabin
- / Solid Pneumatic Tires
- / 3rd/4th/5th Valve
- / Blue Light
- / Heater / Air Conditioning
- / Operator Fan
- / Side Shifter
- / Side Shifter & Fork Positioner



Four Wheel Drive Rough Terrain Forklift

	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.					
		HCFA Model		RT50					
Distinguishing Marks	1.2	Manufacturer's Type Designation		CPC050-XW70C-RT4					
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel					
	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Seated					
	1.5	Rated Capacity/Rated Load	Q lb(kg)	11000(5000)					
	1.6	Load Centre Distance	c in(mm)	24(600)					
	1.8	Load Distance, centre of drive axle to fork	x in(mm)	28.9(735)					
	1.9	Wheelbase	y in(mm)	84.6(2150)					
	2.1	Service Weight	lb(kg)	19620(8900)					
Weight	2.2	Axle Loading, laden front/rear	lb(kg)	27100/3520(12300/1600)					
>	2.3	Axle Loading, unladen front/rear	lb(kg)	9370/10250(4250/4650)					
	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic					
	3.2	Tire Size, front		445/65-22.5					
Tires & Chassis	3.3	Tire Size, rear		12.5/80-18					
S & CI	3.5	Wheels, number front / rear (x = driven wheels)		4x4					
Tire	3.6	Tread, front	b10 in(mm)	65.3(1660)					
	3.7	Tread, rear	b11 in(mm)	69.3(1760)					
	4.1	Tilt of Mast/Fork Carriage Forward/Backward	α/β(°)	15/15					
	4.2	Height, mast lowered	hı in(mm)	104.6(2685)					
	4.3	Free Lift	h2 in(mm)	10.2(260)					
	4.4	Lift	hs in(mm)	118.1(3000)					
	4.5	Height, mast extended	h4 in(mm)	178.5(4534)					
	4.7	Height of Overhead Guard (Cabin)	he in(mm)	101.4(2575)					
	4.19	Overall Length	l1 in(mm)	191.5(4865)					
S	4.20	Length to Face of Forks	l2 in(mm)	144.3(3665)					
Dimensions	4.21	Overall Width	b ₁ in(mm)	82.9(2105)					
Dime	4.22	Fork Dimensions ISO 2331	s/e/l in(mm)	2.4×5.9×47.2(60×150×1200)					
	4.23	Fork Carriage DIN 15 173 ISO 2328, class/type A,B		В					
	4.24	Fork-Carriage Width	b3 in(mm)	76.8(1950)					
	4.25	Distance between Fork-Arms	bs in(mm)	11.4-76.8(290-1950)					
	4.31	Ground Clearance, laden, below mast	mı in(mm)	15.1(385)					
	4.32	Ground Clearance, centre of wheelbase	m ₂ in(mm)	14.6(370)					
	4.34	Aisle Width	Ast in(mm)	248(6305)					
	4.35	Turning Radius	Wa in(mm)	163.4(4150)					
	5.1	Travel Speed, laden/unladen	mph(km/h)	15.5/15.5(25/25)					
Performance Data	5.2	Lift Speed, laden	ft/min(m/s)	88.6/102.4(0.45/0.52)					
	5.3	Lowering Speed, laden	ft/min(m/s)	98.4/84.7(0.5/0.43)					
	5.5	Drawbar Pull, laden	N	95000					
Per	5.7	Gradeability, laden	%	55					
	5.10	Service Brake		Hydraulic					
		Parking Brake		Mechanical					
Combustion Engine	7.1	Engine Manufacturer/Type		QSF3.8t3TC115					
	7.2	Engine Power According to DIN ISO 1585	hp/r/min(kw/r/min)	115/2200[86/2200]					
	7.3	Rated Speed	N-m/r/min	470/1100-1700					
	7.4	Number of Cylinders/Displacement	(-)/(cm ³)	4/3760					
	7.10	Battery Voltage/Nominal Capacity	V/Ah	24/90					
Additional Data	10.3	Hydraulic Tank - capacity (drain & refill)	gal(liter)	30.4(115)					
	10.4	Fuel Tank Capacity	gal(liter)	31.7(120)					

11,000lb Mast

Туре	Model	Max. Fork Height	Overall Height			Free Lift		Front	Tilt Range		Load Capacity Max Height Load Center 24" (600mm)	
			Lowered in(mm)	Extended		Without Backrest	With Backrest	Overhang	FWD	BWD	ISO 22915-2 Rough Terrain	ISO 22915-13 Rough Terrain
			Lower ca mining	Without Backrest in(mm)	With Backrest in(mm)	in(mm)	in(mm)	in(mm)	'""	5115	Forklift with Mast	Forklift with Mast
		in(mm)	11000lb(5t)	11000lb(5t)	11000lb(5t)	11000lb(5t)	11000lb(5t)	11000lb(5t)	(°)	(°)	lb(kg)	lb(kg)
Limited Free Lift 2 Stage Mast	RTC50M300	118.1(3000)	105.7(2685)	164.7(4183)	178.5(4534)	6.3(160)	6.3(160)	28.9(735)	15	15	10360(4700)	10360(4700)
	RTC50M330	129.9(3300)	111.6(2835)	176.5(4483)	190.3(4834)	6.3(160)	6.3(160)	28.9(735)	15	15	10360(4700)	10360(4700)
	RTC50M350	137.8(3500)	115.5(2935)	184.4(4683)	198.2(5034)	6.3(160)	6.3(160)	28.9(735)	15	15	10360(4700)	10360(4700)
	RTC50M370	145.7(3700)	119.5(3035)	192.2(4883)	206.1(5234)	6.3(160)	6.3(160)	28.9(735)	15	15	10360(4700)	10360(4700)
	RTC50M400	157.5(4000)	125.4(3185)	204.1(5183)	217.9(5534)	6.3(160)	6.3(160)	28.9(735)	15	15	10360(4700)	10360(4700)
	RTC50M450	177.2(4500)	137.2(3485)	223.8(5685)	237.6(6034)	6.3(160)	6.3(160)	28.9(735)	15	15	10472(4750)	10141(4600)
	RTC50M500	196.9(5000)	147(3735)	243.5(6185)	257.2(6534)	6.3(160)	6.3(160)	28.9(735)	15	15	9259(4200)	9039(4100)
	RTC50N400	157.5(4000)	108.7(2760)	215.4(5470)	217.9(5534)	51.2(1300)	41.4(1051)	31.7(804)	15	15	11000(5000)	11000(5000)
	RTC50N430	169.3(4300)	112.2(2850)	226(5740)	229.7(5834)	55.9(1420)	44.9(1141)	31.7(804)	15	15	10141(4600)	9921(4500)
Full Free Lift 3 Stage Mast	RTC50N450	177.2(4500)	114.6(2910)	233.1(5920)	237.6(6034)	59.1(1500)	47.3(1201)	31.7(804)	15	15	9480(4300)	9039(4100)
	RTC50N480	189(4800)	118.5(3010)	244.9(6220)	249.4(6334)	63(1600)	51.2(1301)	31.7(804)	15	15	9039(4100)	8598(3900)
	RTC50N500	196.9(5000)	120.5(3060)	251.9(6399)	257.2(6534)	65.8(1671)	53.2(1351)	31.7(804)	10	15	8598(3900)	7716(3500)
	RTC50N550	216.5(5500)	128.3(3260)	274.4(6970)	276.9(7034)	70.9(1800)	61.1(1551)	31.7(804)	10	15	7055(3200)	5732(2600)
	RTC50N600	236.2(6000)	134.3(3410)	292.1(7420)	296.6(7534)	78.7(2000)	67(1701)	31.7(804)	10	15	6173(2800)	5071(2300)
	RTC50N650	255.9(6500)	140.2(3560)	316.3(8034)	311(7899)	85.5(2171)	80(2036)	31.7(804)	10	15	5071(2300)	3968(1800)
With sideshifter, subtract 880(bis/400kg). With interval sideshifter, subtract 660(bis/300kg).												

