



HC FORKLIFT AMERICA CORPORATION

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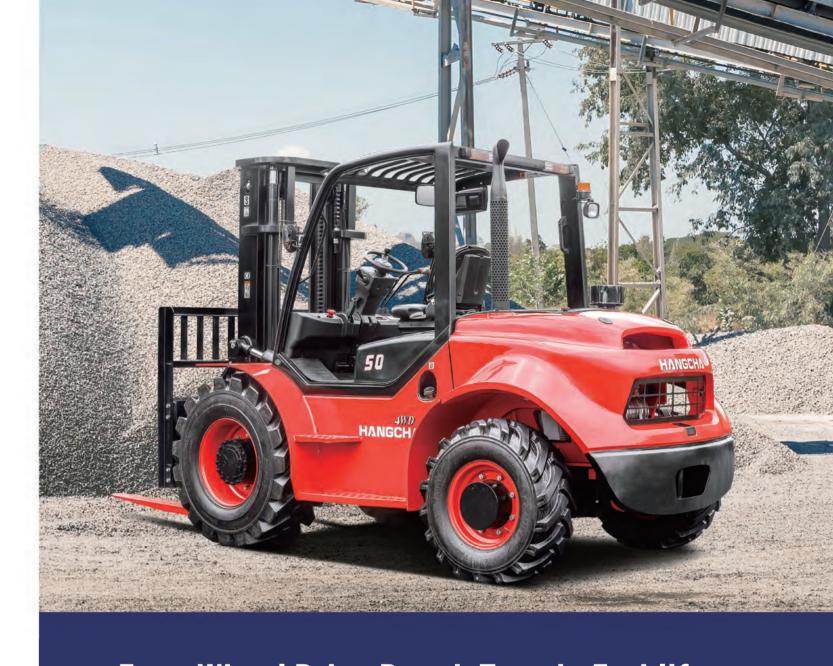
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Four-Wheel Drive Rough Terrain Forklift

with capacities of 10,000lbs



Making Material Handling Easier

CONCEPT

The Hangcha 10,000lb rough terrain forklift with 4WD was developed from the XF series forklifts that Hangcha Group manufactures. It uses the reliable Deutz diesel engine to give it the power needed to navigate through any terrain. This forklift, with a 10,000lb 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 10,000lb rough terrain forklift, because the road isn't always smooth.



Safety

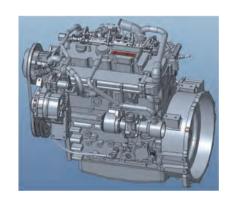
- / The steering hydraulic circuit and the brake hydraulic circuit are independent of each other reducing the interference between the braking and steering systems. This creates a safer hydraulic braking system.
- / Designed with an accumulator, the valve in the braking system is now safer and more reliable.
- / 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 fatigue.
- / 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.

Powerful and reliable engine

/ The Tier 4F compliant 3.6-litre DEUTZ engine produces its peak power (74.3hp) and torque (390Nm) at engine speeds as low as 1,300 rpm. This allows for great engine responsiveness and better fuel consumption.



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 provide



reach a top speed of 15.5 miles per hour.



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



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



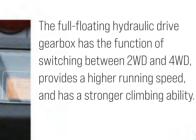
To achieve maximum productivity, a rough terrain forklift operator needs to be comfortable and in control. We've created a workplace that gets the best from your operators and your machinery.

Reliability

- / The 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.





New, higher specification, fork mounting





Productivity

The transmission system is geared to get the maximum performance from the Deutz 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.



The new efficient lighting system uses LED's and a new type of reflector to reduce energy consumption. This significantly improves illumination performance while also prolonging operation time.

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

Maneuverability

The 10,000lb 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

	11	Manufacture		HANDONA ODDINO O TTD
	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
		HCFA Model		RT50
	1.2	Manufacturer's Type Designation		CPCD50-XW65C-RT4
ning	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel
Distinguishing Marks	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Seated
Distin	1.5	Rated Capacity/Rated Load	Q lb(kg)	10000(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
assis	3.3	Tire Size, rear		12.5/80-18
Tires & Chassis	3.5	Wheels, number front / rear (x = driven wheels)		4x4
i ii	3.6	Tread, front	b ₁₀ in(mm)	65.3(1660)
	3.7	Tread, rear	bn 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	h ₂ in(mm)	10.2(260)
	4.4	Lift	h3 in(mm)	118.1(3000)
	4.5	Height, mast extended	h4 in(mm)	178.5(4534)
	4.7	Height of Overhead Guard (Cabin)	hs in(mm)	101.4(2575)
	_	Overall Length	lı in(mm)	191.5(4865)
	4.20	Length to Face of Forks	l ₂ in(mm)	144.3(3665)
ions		Overall Width	b ₁ in(mm)	82.9(2105)
Dimensions	-	Fork Dimensions ISO 2331	s/e/l in(mm)	2.4×5.9×47.2(60×150×1200)
ā	_	Fork Carriage DIN 15 173 ISO 2328, class/type A,B	0,0,1()	B B
	\vdash	Fork-Carriage Width	b3 in(mm)	76.8(1950)
		Distance between Fork-Arms	bs in(mm)	11.4-76.8(290-1950)
	_			
		Ground Clearance, laden, below mast Ground Clearance, centre of wheelbase	mı in(mm)	15.1(385)
	-	<u> </u>	m2 in(mm)	14.6(370)
	4.34	Aisle Width	Ast in(mm)	248(6305)
	40-	Turning Dedice	We to come	400 464503
	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)
ance	5.1 5.2	Travel Speed, laden/unladen Lift Speed, laden	mph(km/h) ft/min(m/s)	15.5/15.5(25/25) 88.6/102.4(0.45/0.52)
formance Data	5.1 5.2 5.3	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden	mph(km/h) ft/min(m/s) ft/min(m/s)	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43)
Performance Data	5.1 5.2 5.3 5.5	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden	mph(km/h) ft/min(m/s) ft/min(m/s) N	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000
Performance Data	5.1 5.2 5.3 5.5 5.7	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden	mph(km/h) ft/min(m/s) ft/min(m/s)	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45
Performance Data	5.1 5.2 5.3 5.5	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden	mph(km/h) ft/min(m/s) ft/min(m/s) N	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000
Performance Data	5.1 5.2 5.3 5.5 5.7	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden	mph(km/h) ft/min(m/s) ft/min(m/s) N	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45
Performance Data	5.1 5.2 5.3 5.5 5.7	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake	mph(km/h) ft/min(m/s) ft/min(m/s) N	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic
	5.1 5.2 5.3 5.5 5.7 5.10	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake Parking Brake	mph(km/h) ft/min(m/s) ft/min(m/s) N	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic Mechanical
	5.1 5.2 5.3 5.5 5.7 5.10	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake Parking Brake Engine Manufacturer/Type	mph(km/h) ft/min(m/s) ft/min(m/s) N	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic Mechanical DEUTZ TCD 3.6 L4
Combustion Performance Engine Data	5.1 5.2 5.3 5.5 5.7 5.10	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake Parking Brake Engine Manufacturer/Type Emission STD	mph(km/h) ft/min(m/s) ft/min(m/s) N %	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic Mechanical DEUTZ TCO 3.6 L4 Tier 4F
	5.1 5.2 5.3 5.5 5.7 5.10 7.1	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake Parking Brake Engine Manufacturer/Type Emission STD Engine Power According to DIN ISO 1585	mph(km/h) ft/min(m/s) ft/min(m/s) N % hp/r/min(kw/r/min)	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic Mechanical DEUTZ TCD 3.6 L4 Tier 4F 74.3/2300(55.4/2300)
Combustion Engine	5.1 5.2 5.3 5.5 5.7 5.10 7.1 7.2	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake Parking Brake Engine Manufacturer/Type Emission STD Engine Power According to DIN ISO 1585 Rated Speed	mph(km/h) ft/min(m/s) ft/min(m/s) N % hp/r/min(kw/r/min) N-m/r/min	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic Mechanical DEUTZ TCD 3.6 L4 Tier 4F 74.3/2300(55.4/2300) 390/1300
	5.1 5.2 5.3 5.5 5.7 5.10 7.1 7.2 7.3	Travel Speed, laden/unladen Lift Speed, laden Lowering Speed, laden Drawbar Pull, laden Gradeability, laden Service Brake Parking Brake Engine Manufacturer/Type Emission STD Engine Power According to DIN ISO 1585 Rated Speed Number of Cylinders/Displacement	mph(km/h) ft/min(m/s) ft/min(m/s) N % hp/r/min(kw/r/min) N-m/r/min [-]/(cm³)	15.5/15.5(25/25) 88.6/102.4(0.45/0.52) 98.4/84.7(0.5/0.43) 85000 45 Hydraulic Mechanical DEUTZ TCD 3.6 L4 Tier 4F 74.3/2300(55.4/2300) 390/1300 4/3620

10,000lb Mast

Туре	Model	Max. Fork Height	Overall Height			Free Lift		Front	Tilt Range		Load Capacity
			Lowered in(mm)	Extended		Without Backrest	With Backrest	Overhang	FWD	BWD	Load Center
				Without Backrest in(mm)	With Backrest in(mm)	in(mm)	in(mm)	in(mm)		5115	24in (600mm)
		in(mm)	10000lb(5t)	10000lb(5t)	10000lb(5t)	10000lb(5t)	10000lb(5t)	10000lb(5t)	(°)	(°)	lb(kg)
# #	RTC50M300	118.1(3000)	105.7(2685)	164.7(4183)	178.5(4534)	6.3(160)	6.3(160)	28.9(735)	15	15	10000(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	10000(4700)
Wa ee	RTC50M350	137.8(3500)	115.5(2935)	184.4(4683)	198.2(5034)	6.3(160)	6.3(160)	28.9(735)	15	15	10000(4700)
d Fr	RTC50M370	145.7(3700)	119.5(3035)	192.2(4883)	206.1(5234)	6.3(160)	6.3(160)	28.9(735)	15	15	10000(4700)
Limited 2 Stag	RTC50M400	157.5(4000)	125.4(3185)	204.1(5183)	217.9(5534)	6.3(160)	6.3(160)	28.9(735)	15	15	10000(4700)
. Ei	RTC50M450	177.2(4500)	137.2(3485)	223.8(5685)	237.6(6034)	6.3(160)	6.3(160)	28.9(735)	15	15	9040(4100)
	RTC50M500	196.9(5000)	147(3735)	243.5(6185)	257.2(6534)	6.3(160)	6.3(160)	28.9(735)	15	15	8050(3650)
	RTC50N400	157.5(4000)	108.7(2760)	215.4(5470)	217.9(5534)	51.2(1300)	41.4(1051)	31.7(804)	15	15	8820(4000)
	RTC50N430	169.3(4300)	122.2(2850)	226(5740)	229.7(5834)	55.9(1420)	44.9(1141)	31.7(804)	15	15	8380(3800)
Lift	RTC50N450	177.2(4500)	114.6(2910)	233.1(5920)	237.6(6034)	59.1(1500)	47.3(1201)	31.7(804)	15	15	7275(3300)
Full Free Lift 3 Stage Mast	RTC50N480	189(4800)	118.5(3010)	244.9(6220)	249.4(6334)	63(1600)	51.2(1301)	31.7(804)	15	15	6610(3000)
	RTC50N500	196.9(5000)	120.5(3060)	251.9(6399)	257.2(6534)	65.8(1671)	53.2(1351)	31.7(804)	10	15	5950(2700)
	RTC50N550	216.5(5500)	128.3(3260)	274.4(6970)	276.9(7034)	70.9(1800)	61.1(1551)	31.7(804)	10	15	4190(1900)
	RTC50N600	236.2(6000)	134.3(3410)	292.1(7420)	296.6(7534)	78.7(2000)	67(1701)	31.7(804)	10	15	3750(1700)

With sideshifter, subtract 880lb's(400kg). With integral sideshifter, subtract 660lb's (300kg).

