

**HANGCHA**

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## Four-Wheel Drive Rough Terrain Forklift

with capacities of 5,000 to 7,000lbs



**Making Material Handling Easier**  
SINCE 1956



## Design

Hangcha's line of compact rough terrain forklifts were designed around the idea of being a multipurpose forklift. This concept refers to a forklift's ability to work in many different environments, providing great performance, no matter how hard the conditions get. We studied all the specifications of the best forklifts around the world determining the characteristics that make a forklift work well in an industrial and rough terrain environment. We used this information to design a group of forklifts that can handle a multitude of different environments while remaining extremely productive. We designed the Hangcha 5,000-7,000lb 4WD Rough Terrain Forklift.

## INTRODUCTION

Our line of Hangcha 5,000-7,000lb 4WD Rough Terrain Forklifts are a group of tough, compact forklifts with a four-wheel drive system. Powered by the Kubota engine, these forklifts provide both the power and maneuverability to traverse through the toughest of terrain. This is the reason they are world-renowned for their superior performance, economy, and longevity.



# 6 Reasons

to choose the  
Four-Wheel Drive  
Rough Terrain Forklift

- ▶ **RELIABILITY**
- ▶ **PRODUCTIVITY**
- ▶ **ENVIRONMENTAL FRIENDLINESS**
- ▶ **COMFORTABLE OPERATION**
- ▶ **EASY MAINTENANCE**
- ▶ **HIGH PERFORMANCE**



## RELIABILITY

The full-floating hydraulic transmission and the 4WD functionality work together to provide a higher running speed and stronger gradeability.



### The "Go Anywhere" Forklift

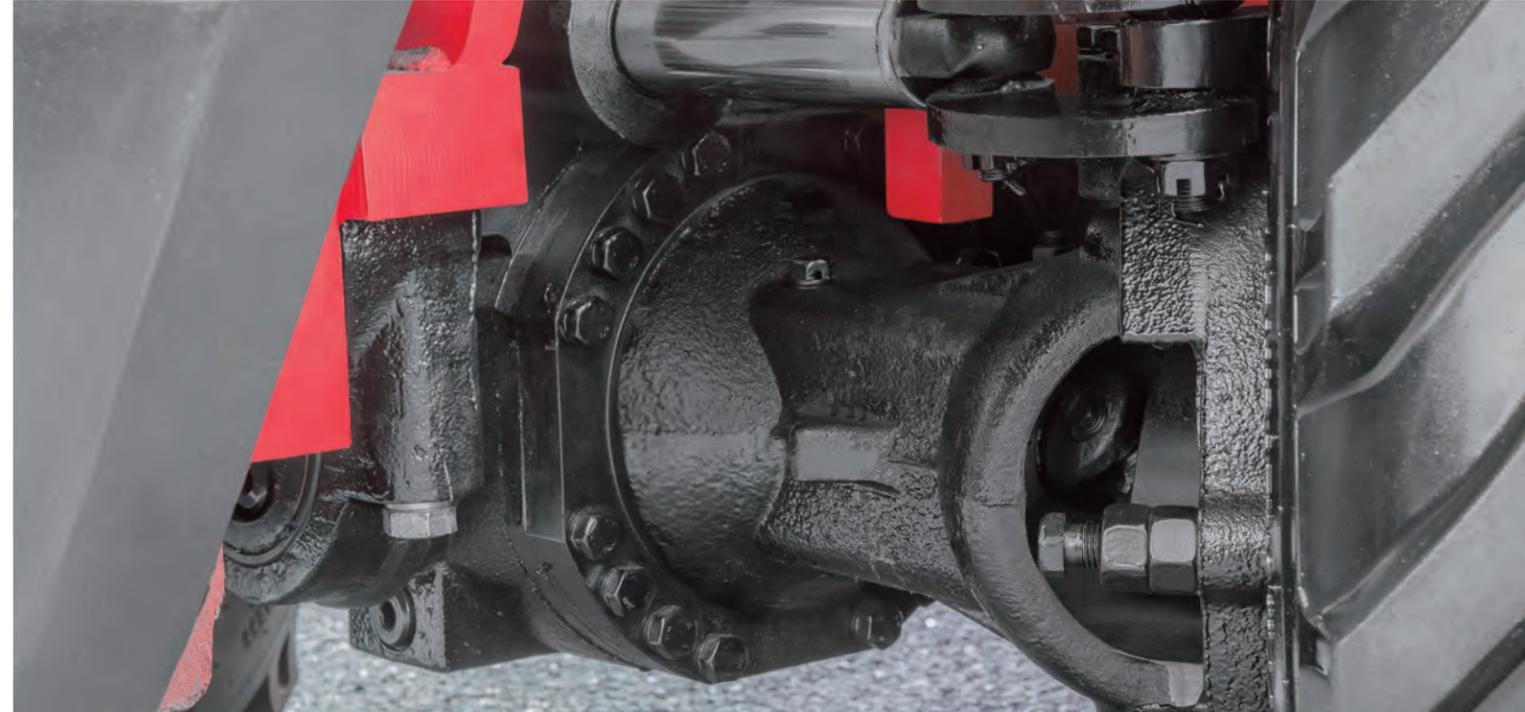
The drive axle is equipped with wide deep-tread tires, wet brakes, an electronic locking differential, and a reinforced oscillating steering drive axle, to better adapt to special working conditions.

Front Tire: 14-17.5

Rear Tire: 10.0/75-15.3

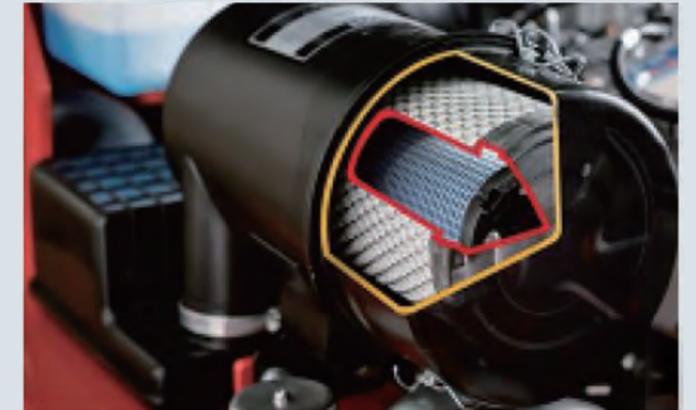


*New, higher specification, fork mounting means that more weight can be loaded.*



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

The Kubota engine uses a pre-cleaner to filter dirt, debris, and water out of the air intake prior to the air filter. By keeping these particulates out, the engine can run more reliably in heavy-duty off-road applications. This also allows the end-user to go longer intervals in-between air filter changes.



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.

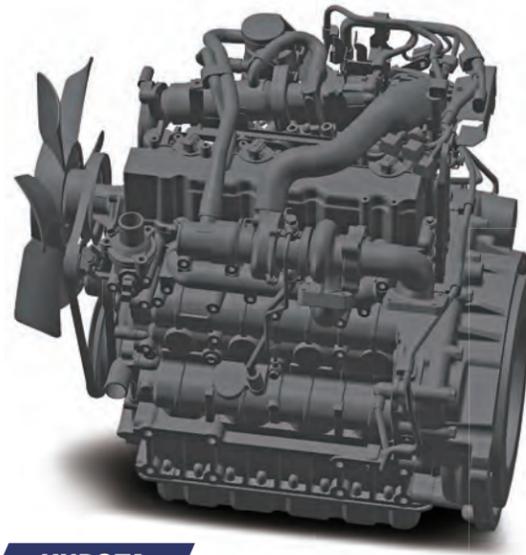


## Environmentally Friendly

Green without sacrificing power

### TIER 4F

Hangcha uses the powerful turbocharged Kubota diesel engine in our rough terrain forklifts. The Kubota engine is Tier 4F compliant. The engine uses common rail fuel systems, diesel oxidation catalysts (DOC), and diesel particulate filters (DPF) to meet the Tier 4F compliance. This engine helps the Hangcha rough terrain forklifts maximize their efficiency and reliability for the end-user.



**KUBOTA**



The instrument cluster uses an easy-to-see 4" color LCD display with four interactive buttons and one CAN bus communication function. The communication protocol is compatible with SAE J1939 standards.

## PRODUCTIVITY



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.

## COMFORTABLE OPERATION

*When developing the rough terrain forklift, comfort and ease of operation were taken into account. For example, the amount of vibration that the operator felt was decreased thanks to compound engine dampers and a full floating seat.*

*We understand that operator comfort leads to an increase in productivity and have designed the rough terrain forklifts based on this.*



**1.** The rubber damper between the frame and the steering axle, the compound engine damper, and the full floating powertrain achieves a flexible connection between the frame and the driving system. As a result, vibrations are significantly reduced to increase operator comfort.



**2.** 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 a comfortable operating experience.



**3.** The overhead guard is optimized to provide great rear visibility when traveling in reverse.



**4.** The newly designed mast provides broad forward visibility due to the longer distance between the inside of the mast.

Simple  
Smart  
Solid



## EASY to MAINTAIN



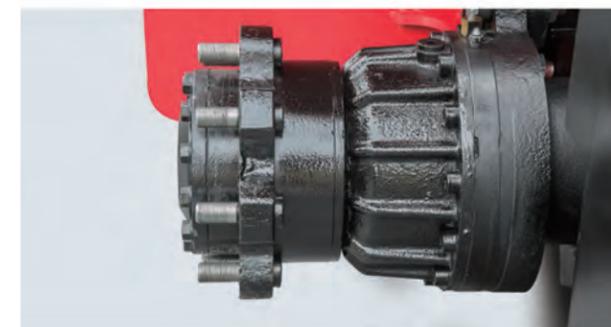
The newly-developed 4" LCD instrument cluster has more comprehensive functions and offers more stable performance. The cluster displays the full truck state, fault codes, and other important information. This allows the operator to have a better understanding of the truck's state and makes maintenance convenient.



The forklift is now equipped with a next-generation integrated fuse box which makes maintenance and repair more convenient. The fuse box is laid out more intuitively and now offers better water-proof performance.



The easy-to-open maintenance hatch provides quick access to the engine compartment.



Wet brakes offer the maximum amount of service life for your brake system.

- / The cover on the panel can be lifted up to easily check the brake fluid level.
- / 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.



# FOUR-WHEEL DRIVE ROUGH TERRAIN FORKLIFT



## HIGH PERFORMANCE



### Maneuverability

The 6000lb rough terrain forklift has a ground clearance of 10.6". This offers greater maneuverability and 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.

### Three Speed Transmission

The hydraulic transmission can shift between its three forward gears using the shifter stalk on the steering wheel column to reach a top speed of 16.2 miles per hour.

### Standard Specification

- / Hydraulic Transmission
- / Electronic Locking Differential
- / 4-Wheel Drive System
- / Suspension Seat
- / Return Oil Filter

- / Large Capacity Aluminum Radiator
- / Air Pre-Cleaner
- / Front Working Light
- / Strobe Light
- / Boot Cover for Tilt Cylinder

- / Rear Grip with Horn Button
- / Wide Fork Carriage
- / Wide Load Backrest
- / LED Combination Lights
- / Operator Presence Sensing System (OPS)

### Options

- / Full Cabin
- / Heater
- / Front Window
- / L/R Mirror
- / Fire Extinguisher

- / Blue Light
- / Auxiliary Hydraulic Valve
- / Rear Working Light
- / Full Free-Lift 3 Stage Mast
- / Special Forks

- / Specialty Attachments
- / Customized Paint
- / Air Conditioning
- / Foam Filled Tires

## Four-Wheel Drive Rough Terrain Forklift 5000-7000lb

		HANGCHA GROUP CO.,LTD.				
		RT25	RT30	RT35		
Distinguishing Marks	1.1 Manufacturer	HANGCHA				
	1.2 HCFA Model	RT30				
	1.3 Drive: electric (battery or mains), diesel, petrol, fuel gas	Diesel				
	1.4 Operator Type: hand, pedestrian, standing, seated, order-picker	Seated				
Weight	1.5 Rated Capacity/Rated Load	5000(2289)	6000(2750)	7000(3208)		
	1.6 Load Centre Distance	24(600)	24(600)	24(600)		
	1.8 Load Distance, centre of drive axle to fork	23(585)	24(600)	24(600)		
	1.9 Wheelbase	74(1880)	74(1880)	74(1880)		
	2.1 Service Weight	1069(24850)	1177(26340)	1234(5600)		
	2.2 Axle Loading, laden front/rear	1364(6190)/2557(1160)	1587(7200)/2513(1140)	1741(7900)/2645(1200)		
	2.3 Axle Loading, unladen front/rear	4696(2130)/5996(2720)	5158(2340)/6613(3000)	5071(2300)/7275(3300)		
	Tires & Chassis	3.1 Tires: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic			
		3.2 Tire Size, front	12-16.5-14PR	14-17.5-14PR	14-17.5-14PR	
		3.3 Tire Size, rear	10.0/75-15.3-14PR	10.0/75-15.3-14PR	10.0/75-15.3-14PR	
3.5 Wheels, number front / rear (x = driven wheels)		2x/2x	2x/2x	2x/2x		
3.6 Tread, front		b10 in(mm)	49.2(1250)	49.2(1250)	49.2(1250)	
3.7 Tread, rear		b11 in(mm)	46.9(1190)	46.9(1190)	46.9(1190)	
Dimensions		4.1 Tilt of Mast/Fork Carriage Forward/Backward	α/β(°)			
	4.2 Height, mast lowered	h1 in(mm)	87.2(2215)	92.5(2350)	92.5(2350)	
	4.3 Free Lift	h2 in(mm)	5.5(140)	5.7(145)	5.7(145)	
	4.4 Lift	h3 in(mm)	118.1(3000)	118.1(3000)	118.1(3000)	
	4.5 Height, mast extended	h4 in(mm)	162.3(4122)	163(4142)	163(4142)	
	4.7 Height of Overhead Guard (cabin)	h6 in(mm)	94.1(2390)	95.3(2420)	95.3(2420)	
	4.19 Overall Length	l1 in(mm)	169.5(4305)	170(4320)	170(4320)	
	4.20 Length to Face of Forks	l2 in(mm)	121.5(3085)	122(3100)	122(3100)	
	4.21 Overall Width	b2 in(mm)	61.3(1557)	63(1599)	63(1599)	
	4.22 Fork Dimensions ISO 2331	s/e/r in(mm)	1.6*4.8*48.3(40*122*1220)	2*4.8*48.3(50*122*1220)	2*4.8*48.3(50*122*1220)	
	4.23 Fork Carriage DIN 15 173 --- ISO 2328, class/type A/B	B				
	4.24 Fork-Carriage Width	b3 in(mm)	45.3(1150)	45.3(1150)	45.3(1150)	
	4.25 Distance between Fork-Arms	bs in(mm)	11.4-45.3(290-1150)	11.4-45.3(290-1150)	11.4-45.3(290-1150)	
	4.31 Ground Clearance, laden, below mast	m1 in(mm)	9.4(240)	10.6(270)	10.6(270)	
	4.32 Ground Clearance, centre of wheelbase	m2 in(mm)	10.2(260)	11.4(290)	11.4(290)	
4.34 Aisle Width	Ast in(mm)	208.9(5305)	209.4(5320)	209.4(5320)		
4.35 Turning Radius	Wa in(mm)	129.9(3300)	129.9(3300)	129.9(3300)		
Performance Data	5.1 Travel Speed, laden/unladen	mp/h(km/h)	14.3/15.5(23/25)	14.3/15.5(23/25)	14.3/15.5(23/25)	
	5.2 Lift Speed, laden	fpm(m/s)	122/7.26(0.62/0.64)	92.5/100.4(0.47/0.51)	88.6/100.4(0.45/0.51)	
	5.3 Lowering Speed, laden	fpm(m/s)	98.4/86.6(0.5/0.44)	98.4/86.6(0.5/0.45)	98.4/86.6(0.5/0.45)	
	5.5 Drawbar Pull, laden	N	42000	47000	49000	
	5.7 Gradeability, laden	%	60	58	54	
	5.10 Service Brake		Hydraulic	Hydraulic	Hydraulic	
	Parking Brake		Mechanical	Mechanical	Mechanical	
Combustion Engine	7.1 Engine Manufacturer/Type	KUBOTA V2607-CR-TE5B				
	7.2 Emission STD	EPA/CARB Tier4 F				
	7.3 Engine Power According to DIN ISO 1585	hp(kw)/r/min	63.4(47.3)/2400	63.4(47.3)/2400	63.4(47.3)/2400	
	7.4 Rated Speed	ft-lb(N·m)/r/min	163.6(221.7)/1500	163.6(221.7)/1500	163.6(221.7)/1500	
Additional Data	7.4 Number of Cylinders/Displacement	(-)/Cu in(cm³)	4/159.6(2615)	4/159.6(2615)	4/159.6(2615)	
	7.10 Battery Voltage/Nominal Capacity	V/Ah	12/90	12/90	12/90	
	10.3 Hydraulic Tank - Capacity (Drain & Refill)	gal(liter)	16(60)	16(60)	16(60)	
10.4 Fuel Tank Capacity	gal(liter)	14.5(55)	14.5(55)	14.5(55)		

## 5000-7000lb Mast:

Type	Model	Max.Fork Height	Overall Height				Free Lift		Front Overhang		Tilt Range	Load Capacity							
			Lowered in(mm)	Extended		Without Backrest in(mm)	With Backrest in(mm)	in(mm)		FWD		BWD	Load Center 24inch						
Wide View Mast	RTE25/35M300	118.1(3000)	5000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	(°)	5000bs	6000bs					
			6000/7000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	5000bs	6000/7000bs	6000/7500	7000/3200				
			7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200				
			6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500				
			7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200				
			6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500	7000/3200	6000/7500				
Full Free Lift 3 Stage Mast	RTE25/35N400	157.5(4000)	83.3(2115)	90.6(2300)	191.3(4860)	197.8(5025)	201.7(5122)	207.4(5269)	49.4(1255)	50.2(1275)	39.1(993)	40.6(1031)	23.7(603)	24.3(618)	10	12	4000(1830)	4600(2100)	4800(2200)
			90.6(2300)	191.3(4860)	197.8(5025)	201.7(5122)	207.4(5269)	49.4(1255)	50.2(1275)	39.1(993)	40.6(1031)	23.7(603)	24.3(618)	10	12	3800(1730)	4200(1925)	4400(2000)	
			191.3(4860)	197.8(5025)	201.7(5122)	207.4(5269)	49.4(1255)	50.2(1275)	39.1(993)	40.6(1031)	23.7(603)	24.3(618)	10	12	3400(1550)	3800(1740)	3800(1740)		
			201.7(5122)	207.4(5269)	49.4(1255)	50.2(1275)	39.1(993)	40.6(1031)	23.7(603)	24.3(618)	10	12	2800(1280)	3000(1375)	3000(1375)				
			49.4(1255)	50.2(1275)	39.1(993)	40.6(1031)	23.7(603)	24.3(618)	10	12	2200(1000)	2400(1100)	2400(1100)						
			50.2(1275)	39.1(993)	40.6(1031)	23.7(603)	24.3(618)	10	12	1600(730)	1800(825)	1800(825)							

With sideshifter, subtract 440lb(200kg). With integral sideshifter, subtract 220lb(100kg).