

## CONCEPT

The multipurpose concept refers to the capability of the forklift truck to work in many different areas, with a great performance no matter how hard the conditions are.

We studied all the specifications of the best forklifts in the world, specialized in industrial and rough terrain types, determining the characteristics that makes a forklift work well in an industrial environment. After that, we combined such information, to prepare the basis of the design of our product.

## INTRODUCTION

Hangcha 2.5~3.5t 4W rough terrain forklifts is a tough, compact forklift with a four-wheel drive system. It is based on two-wheel drive rough terrain forklift. It is world renowned for superior performance, economy and longevity.



# 6 reasons

choose  
Four-Wheel Drive  
Rough Terrain Forklift

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



KUBOTA



Interactive Instrument: The instrument panel is equipped with four interactive buttons, and has a CAN bus communication system. The communication protocol is compliant with SAE J1939 standards.

HANGCHA Forklift with StageV and T4F

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1				Y2607-DI155		30/35-XW98C-BT4	StageV / Tier4 final		47.3/2400

RELIABILITY



## PRODUCTIVITY



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.



## COMFORTABLE OPERATION

*In developing the rough terrain forklift, comfort and easy operation is always considered, for example, improved vibrating levels, compound engine damper and full floating seat and cabin are all applied.*

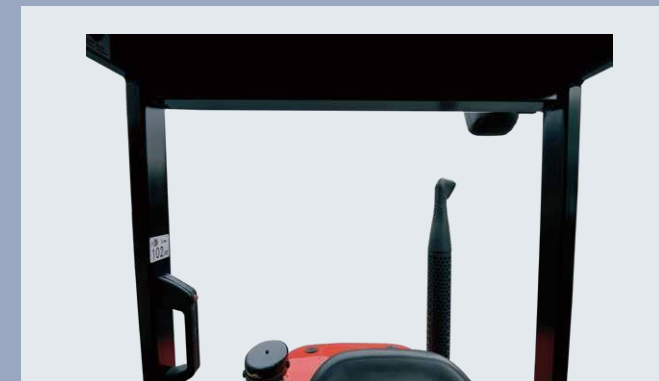
*Comfortable also contribute to increased productivity and reduced the noise.*



1. In addition to rubber damper between overhead and frames, compound engine damper and full floating power train achieve flexible connection between frames and driving system, as a result, traveling vibrations and vibrations from the driving system are significantly reduced.



2. 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.



3. Optimized designing structure to offer a good visibility.



4. The new design mast provides broad forward visibility due to the longer distance between inside mast.



# FOUR-WHEEL DRIVE ROUGH TERRAIN FORKLIFT



## HIGH PERFORMANCE



### Maneuverability

The distance to ground is 270mm for 3.0t, 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.



### Three forward gears

Suspension hydraulic transmission with three forward gears, top speed reach 26km/h.

## Standard specification

- / Suspension transmission
- / Differential lock
- / 2-wheel drive, 4-wheel drive system
- / Suspension seat
- / Return oil filter
- / Big capacity aluminum radiator
- / Air filter
- / Rear working light
- / Warning lamp
- / Cover for tilt cylinder
- / Reversing assist grip
- / Wider fork carriage
- / Wider load backrest
- / LED light

## Options

- / Cabin
- / Heater
- / Front window
- / L/R mirror
- / Extinguisher
- / Customer painting
- / OPS system
- / Sparkle arrester
- / Purified exhaust system
- / Auxiliary hydraulic valve
- / Front working light
- / Triplex wide view free-lift mast
- / Special forks
- / Weigher system
- / Attachments
- / Net cover of radiator



# FOUR-WHEEL DRIVE ROUGH TERRAIN FORKLIFT SPECIFICATION:

Distinguishing mark	6	Manufacturer	HANGCHA GROUP CO.,LTD.		
	1.2	Manufacturer's type designation	CPCD25-XW33C-RT4 CPCD25-XG72C-RT4		
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Diesel	Diesel	
	1.4	Operator type: hand, pedestrian, standing, seated, order- picker	Seated	Seated	
	1.5	Rated capacity/rated load	Q (kg)	2500	2500
	1.6	Load centre distance	c (mm)	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	585	585
	1.9	Wheelbase	y (mm)	1880	1880
	Weight	2.1	Service Weight	kg	4850
2.2		Axle loading, laden front/rear	kg	6190/1160	6190/1160
2.3		Axle loading, unladen front/rear	kg	2130/2720	2130/2720
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic		
	3.2	Tyre size, front	12-16.5-14PR	12-16.5-14PR	
	3.3	Tyre size, rear	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	
	3.6	Tread, front	b10 (mm)	1250	1250
	3.7	Tread, rear	b11 (mm)	1190	1190
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/B(°)	10/12	10/12
	4.2	Height, mast lowered	h1 (mm)	2215	2215
	4.3	Free lift	h2 (mm)	140	140
	4.4	Lift	h3 (mm)	3000	3000
	4.5	Height, mast extended	h4 (mm)	4122	4122
	4.7	Height of overhead guard (cabin)	h6 (mm)	2390	2390
	4.19	Overall length	l1 (mm)	4305	4305
	4.20	Length to face of forks	l2 (mm)	3085	3085
	4.21	Overall width	b1(mm)	1557	1557
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	40x122x1220	40x122x1220
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		B	B
	4.24	Fork-carriage width	b3 (mm)	1150	1150
	4.25	Distance between fork-arms	b5 (mm)	290-1150	290-1150
	4.31	Ground clearance, laden, below mast	m1 (mm)	240	240
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	260	260
4.34	Aisle width	Ast (mm)	5305	5305	
4.35	Turning radius	Wa (mm)	3300	3300	
Performance data	5.1	Travel speed, laden/unladen	km/h	24/26	24/26
	5.2	Lift speed, laden	m/s	0.62/0.64	0.62/0.64
	5.3	Lowering speed, laden	m/s	0.5/0.44	0.5/0.44
	5.5	Drawbar pull, laden	N	40000	40000
	5.7	Gradeability, laden	%	58	58
	5.10	Service brake		Hydraulic	Hydraulic
	Parking brake		Mechanical	Mechanical	
Combustion- engine	7.1	Engine manufacturer/type		YANMAR 4TNE98	XINCHAI 4D32XG30-011
		Emission standard		StageIIIA / EPA Tier3	/
	7.2	Engine power according to DIN ISO 1585	kw/r/min	42.1/2300	45/2500
	7.3	Rated speed	N·m/r/min	196/1700	200/1500~1800
	7.4	Number of cylinders/displacement	(-)/(cm³)	4/3319	4/3168
7.10	Battery voltage/nominal capacity	V/Ah	12/90	12/90	
Additional data	10.3	Hydraulic Tank - capacity (drain & refill)	liter	60	60
	10.4	Fuel tank capacity	liter	60	60

