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ISO 45001
ISO 45001:2018



ISO 14001
ISO 14001:2015



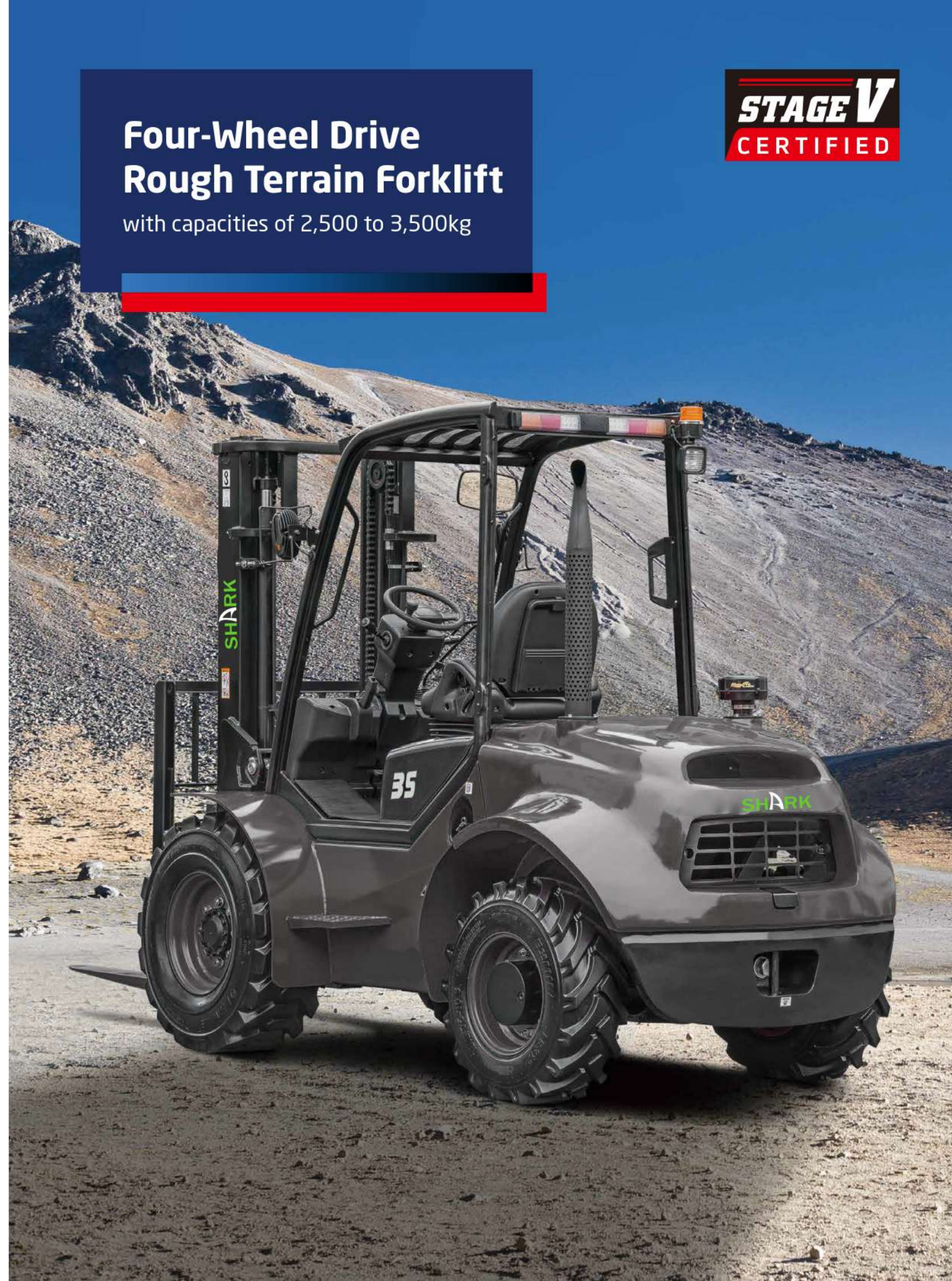
ISO 9001
ISO 9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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2024 VERSION 2103P/RIGHT 2024/10



Four-Wheel Drive Rough Terrain Forklift

with capacities of 2,500 to 3,500kg



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

Shark 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**

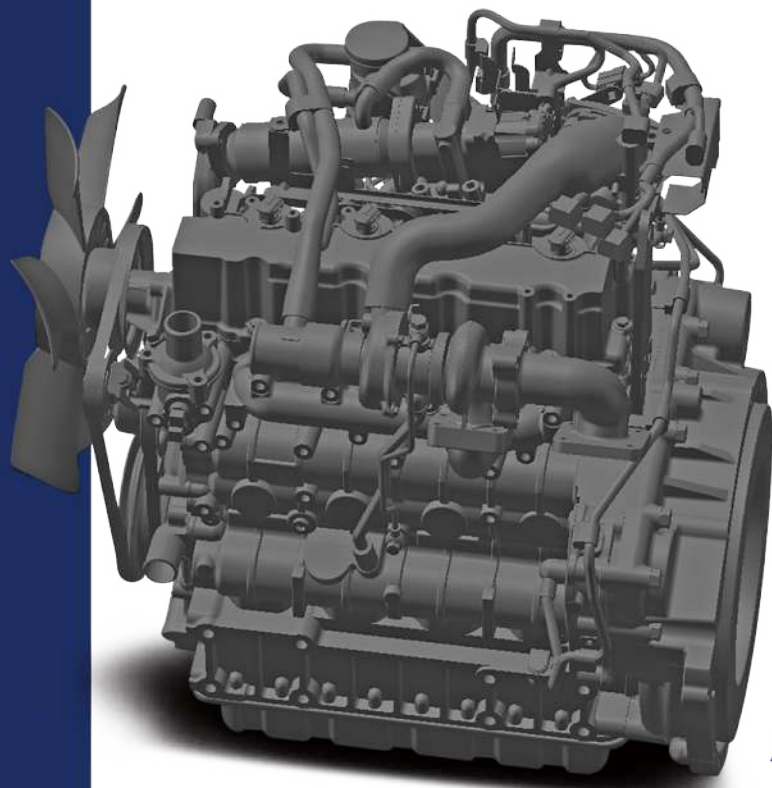


SHARK be with you at every stage
Efficient, reliable solutions for your demands

STAGE V & TIER 4F

With Shark you can meet all Stage V/Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.

**Powerful/
Efficient/
Reliable**



KUBOTA



Interactive instrument: The instrument adopts 4.0-inch color LCD display with four interactive buttons, and has one CAN bus communication function. The communication protocol is compatible with SAE J1939 standards.



SHARK Forklift with StageV and T4F

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1	2.5-3.5t	RT	KUBOTA	V2607-CR-T65B	Diesel	CPCD25/30/35-XW98C-RT4	StageV / Tier4 final	CHINA	47.3/2400

Note: RT means 2WD/4WD Rough Terrain forklift

RELIABILITY

The full-floating hydraulic transmission gearbox, with 2WD and 4WD switch function, can provide higher running speed and stronger gradeability;



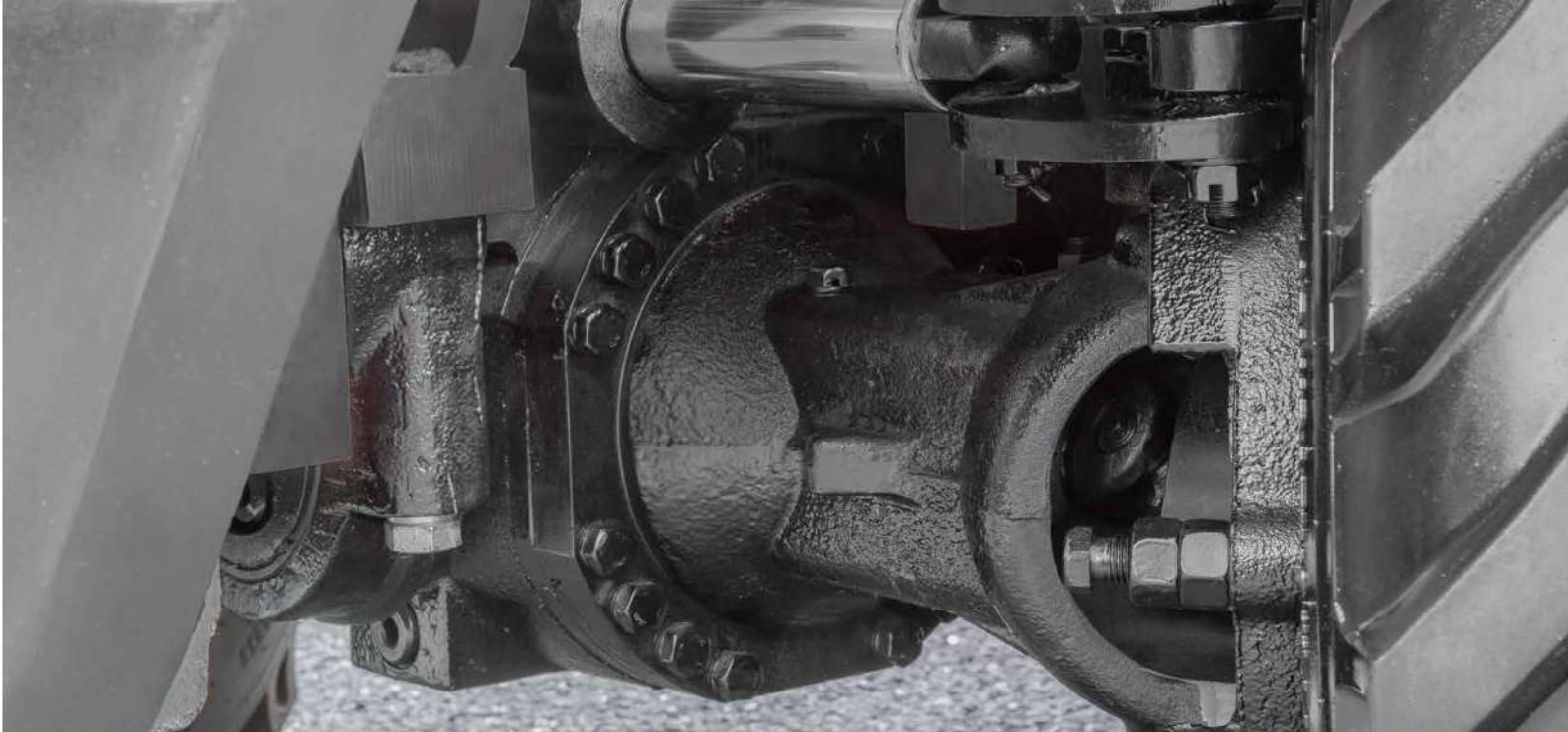
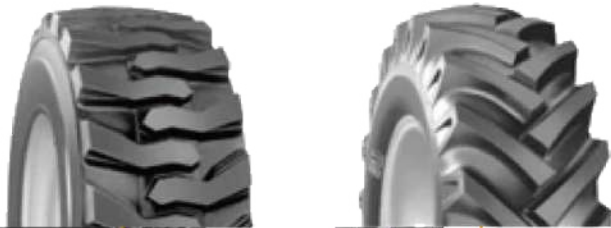
Higher specification fork mounting level-3B, more weight can be loaded.

Wide-base deep tread tyres

The drive axle is equipped with wide-base deep tread tires, wet brake, differential mechanism with electronic lock, as well as reinforced steering drive axle, and can better adapt to special working conditions.

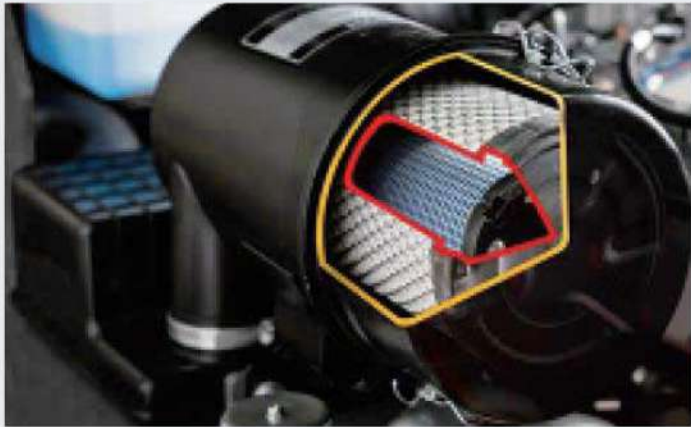
Front tyre:14-17.5

Rear tyre:10.0/75-15.3



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

Dual air filter、extra capacity combined radiator with serpentine wave and optimized heat dissipation channel enhance the heat dissipation capability to keep engine reliability even in heavy-duty applications.



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 differntial lock prevents power loose when one wheel spins.



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.



EASY MAINTENANCE



Newly-developed LCD instrument has more comprehensive functions and more stable performance and entirely displays the full truck state, fault code and other important information, which can make the operator more intuitively and conveniently have a better knowledge of truck state and make the maintenance conveniently.



Adoption of new generation integrated electric box makes maintenance and repair convenient, layout becomes more reasonable and with better water-proof performance.



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



Wet brake offers maximum service life for your brake system.

- / The cover on the Panel can be lifted up simply to check the brake fluid.
- / The two-piece design makes the floorboard easy to lift and remove for access to the power train.
- / The fasteners of the radiator cover can be turned easily by hand to enable quick inspections or servicing.



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

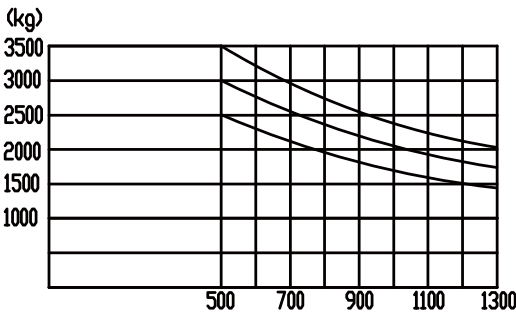
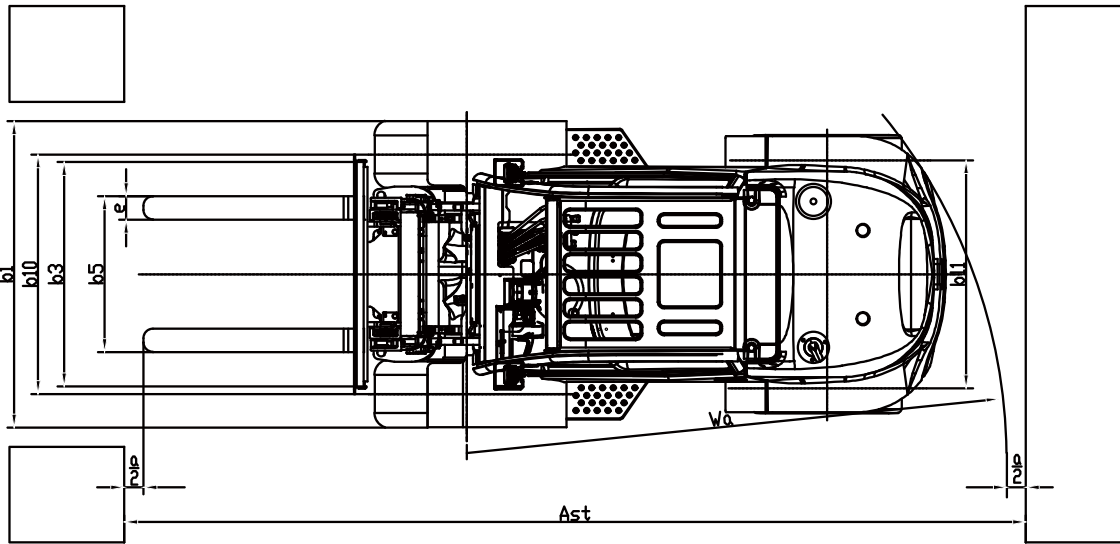
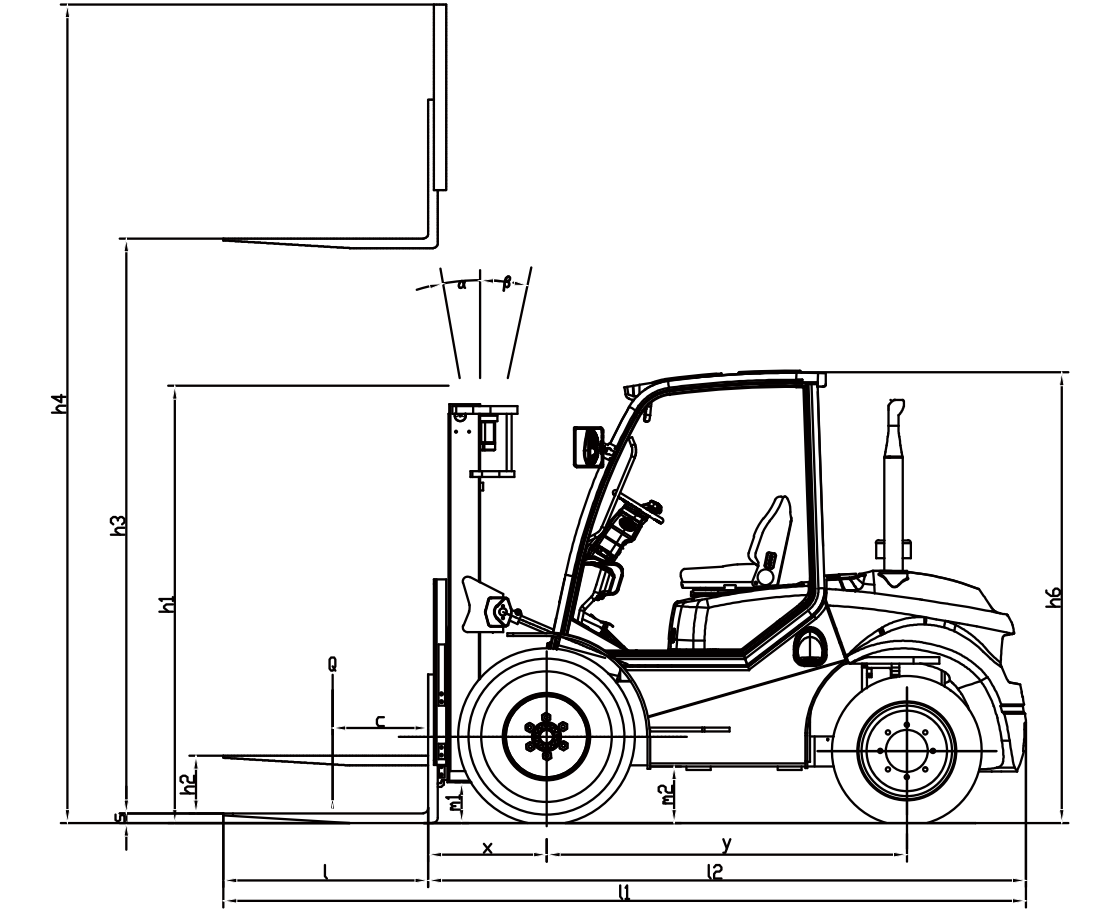
- / Suspension transmission
- / Differential lock
- / 2-wheel drive、 4-wheel drive system
- / Suspension seat
- / Return oil filter
- / Big capacity aluminum radiator
- / Air filter
- / Rear working light
- / Warning lamp
- / Cover for tilt cylinder
- / Reversing assist grip
- / Wider fork carriage
- / 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	1.1	Manufacturer		SHARK									
	1.2	Manufacturer's type designation		CPCD25-XW33C-RT4	CPCD30-XW33C-RT4	CPCD35-XW33C-RT4	CPCD25-XW98C-RT4	CPCD30-XW98C-RT4	CPCD35-XG72C-RT4	CPCD30-XG72C-RT4	CPCD35-XG72C-RT4		
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated		
	1.5	Rated capacity/rated load	Q (kg)	2500	3000	3500	2500	3000	2500	3000	3500		
Weight	1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500		
	1.8	Load distance, centre of drive axle to fork	x (mm)	585	600	600	585	600	585	600	600		
	1.9	Wheelbase	y (mm)	1880	1880	1880	1880	1880	1880	1880	1880		
	2.1	Service Weight	kg	4850	5340	5600	4850	5340	4850	5340	5600		
	2.2	Axle loading, laden front/rear	kg	6190/1160	7200/1140	7900/1200	6190/1160	7200/1140	7900/1200	6190/1160	7200/1140		
Tyres,chassis	2.3	Axle loading, unladen front/rear	kg	2130/2720	2340/3000	2300/3300	2130/2720	2340/3000	2300/3300	2130/2720	2300/3300		
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic		
	3.2	Tyre size, front		12-16.5-14PR	14-17.5-14PR	14-17.5-14PR	12-16.5-14PR	14-17.5-14PR	12-16.5-14PR	14-17.5-14PR	14-17.5-14PR		
	3.3	Tyre size, rear		10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR	10.0/75-15.3-12PR		
	3.5	Wheels, number front / rear (x = driven wheels)		2x/2x	2x/2x	2x/2x	2x/2x	2x/2x	2x/2x	2x/2x	2x/2x		
Dimensions	3.6	Tread, front	b ₅₀ (mm)	1250	1250	1250	1250	1250	1250	1250	1250		
	3.7	Tread, rear	b ₁₁ (mm)	1190	1190	1190	1190	1190	1190	1190	1190		
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	10/12	10/12	10/12	10/12	10/12	10/12	10/12	10/12		
	4.2	Height, mast lowered	h ₁ (mm)	2215	2350	2350	2215	2350	2350	2215	2350		
	4.3	Free lift	h ₂ (mm)	140	150	150	140	150	150	140	150		
	4.4	Lift	h ₃ (mm)	3000	3000	3000	3000	3000	3000	3000	3000		
	4.5	Height, mast extended	h ₄ (mm)	4122	4269	4269	4122	4269	4269	4122	4269		
	4.7	Height of overhead guard	h ₅ (mm)	2390	2420	2420	2390	2420	2420	2390	2420		
	4.19	Overall length	l ₁ (mm)	4345	4360	4360	4345	4360	4360	4345	4360		
	4.20	Length to face of forks	l ₂ (mm)	3125	3140	3140	3125	3140	3140	3125	3140		
	4.21	Overall width	b ₁ (mm)	1557	1599	1599	1557	1599	1599	1557	1599		
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	40×122×1220	50×122×1220	50×122×1220	40×122×1220	50×122×1220	50×122×1220	40×122×1220	50×122×1220		
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		B	B	B	B	B	B	B	B		
	4.24	Fork-carriage width	b ₃ (mm)	1150	1150	1150	1150	1150	1150	1150	1150		
	Performance data	4.25	Distance between fork-arms	b ₅ (mm)	290-1150	290-1150	290-1150	290-1150	290-1150	290-1150	290-1150	290-1150	
4.31		Ground clearance, laden, below mast	m ₁ (mm)	240	270	270	240	270	270	240	270		
4.32		Ground clearance, centre of wheelbase	m ₂ (mm)	260	290	290	260	290	290	260	290		
4.34		Aisle width	A _{st} (mm)	5305	5320	5320	5305	5320	5320	5305	5320		
4.35		Turning radius	W _a (mm)	3300	3300	3300	3300	3300	3300	3300	3300		
5.1		Travel speed, laden/unladen	km/h	24/26	24/26	24/26	23/25	23/25	24/26	24/26	24/26		
5.2		Lift speed, laden/unladen	m/s	0.62/0.64	0.49/0.51	0.43/0.51	0.62/0.64	0.47/0.51	0.62/0.64	0.49/0.51	0.43/0.51		
5.3		Lowering speed, laden/unladen	m/s	0.5/0.44	0.5/0.45	0.5/0.45	0.5/0.44	0.5/0.45	0.5/0.44	0.5/0.45	0.5/0.45		
5.5		Drawbar pull, laden	N	40000	45000	45000	42000	47000	49000	40000	45000		
5.7		Gradeability, laden	%	58	55	52	60	58	54	58	52		
5.10		Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic		
Combustion-engine			Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
		7.1	Engine manufacturer/type		YANMAR 4TNE98	YANMAR 4TNE98	YANMAR 4TNE98	KUBOTA V2607-CR-TE5B	KUBOTA V2607-CR-TE5B	KUBOTA V2607-CR-TE5B	XINCHAI 4D32XG30-011	XINCHAI 4D32XG30-011	
			Emission standard		StageIIIA / EPA Tier3	StageIIIA / EPA Tier3	StageIIIA / EPA Tier3	EU StageV / Tier 4f	EU StageV / Tier 4f	EU StageV / Tier 4f	/	/	
		7.2	Engine power according to DIN ISO 1585	kw/r/min	42.1/2300	42.1/2300	42.1/2300	47.3/2400	47.3/2400	47.3/2400	45/2500	45/2500	
	7.3	Rated speed	N·m/r/min	206/1700	206/1700	206/1700	221.7/1500	221.7/1500	221.7/1500	200/1500 – 1800	200/1500 – 1800		
Addition data	7.4	Number of cylinders/displacement	(-) / (cm ³)	4/3319	4/3319	4/3319	4/2615	4/2615	4/3168	4/3168	4/3168		
	7.10	Battery voltage/nominal capacity	V/Ah	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90		
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	60	60	60	60	60	60	60	60		
	10.4	Fuel tank capacity	liter	60	60	60	55	55	55	60	60		



Note: ISO 22915-2 for industrial use; ISO 22915-13 for rough terrain use.
With integral sideshifter minus 200kg; with sideshifter minus 300kg.