MATERIAL HANDLING SOLUTIONS
Via Buffalora, 3 – 25135 Brescia
info@mhs.srl · www.mhs.srl

HANGCHA
CANADA

HANGCHA FORKLIFT CANADA INC.

100-3801 F.-X.-Tessier,
Vaudreuil-Dorion, QC J7V 5V5

Follow us on Facebook

Follow us on YouTube

Follow us on WeChat

Download "Hangcha Forklift" App

ISO45001
ISO45001:2018

ISO14001
ISO14001:2015

ISO9001
ISO9001:2015

HANGCHA trucks conform to the European Safety Requirements.

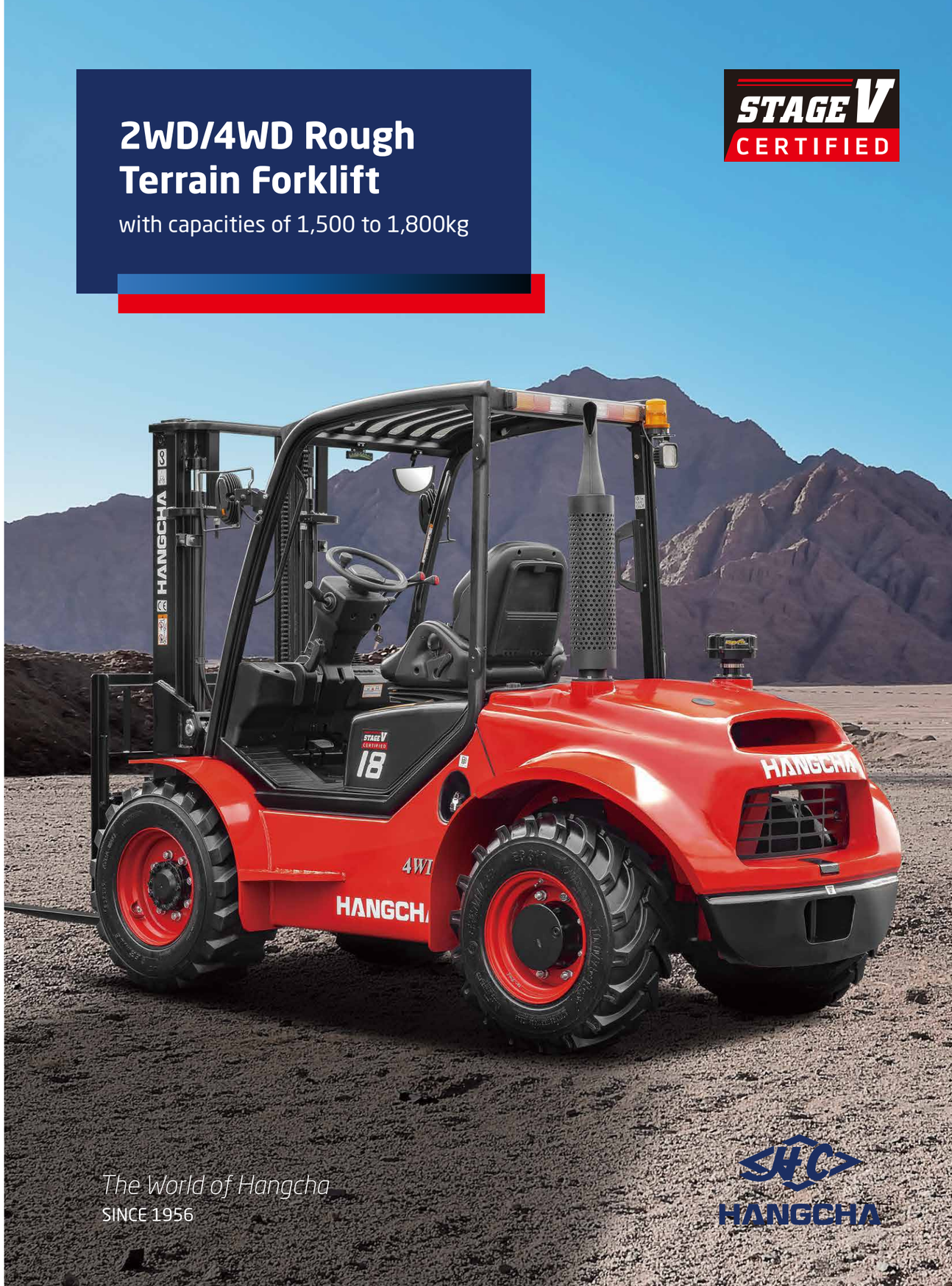
2024 VERSION 2/COPYRIGHT 2024/08

colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.

2WD/4WD Rough Terrain Forklift

with capacities of 1,500 to 1,800kg

STAGE V CERTIFIED



The World of Hangcha
SINCE 1956

HANGCHA

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 1.5~1.8t 2WD/4WD rough terrain forklifts is a tough, compact forklift. It is world renowned for superior performance, economy and longevity.

6 reasons

choose 2WD/4WD
Rough Terrain Forklift

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



HANGCHA be with you at every stage

Efficient, reliable solutions for your demands

STAGE V & TIER 4F

With Hangcha 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.



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.

HANGCHA Forklift with StageV and T4F

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1	1.5-1.8t	RT	KUBOTA	V2607-CR-E5B	Diesel	CPCD15/18-XW97E-RT2	StageV / Tier4 final	CHINA	37.4/2400
2	1.5-1.8t	RT	KUBOTA	V2607-CR-E5B	Diesel	CPCD15/18-XW97C-RT4	StageV / Tier4 final	CHINA	37.4/2400

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

Powerful/ Efficient/ Reliable

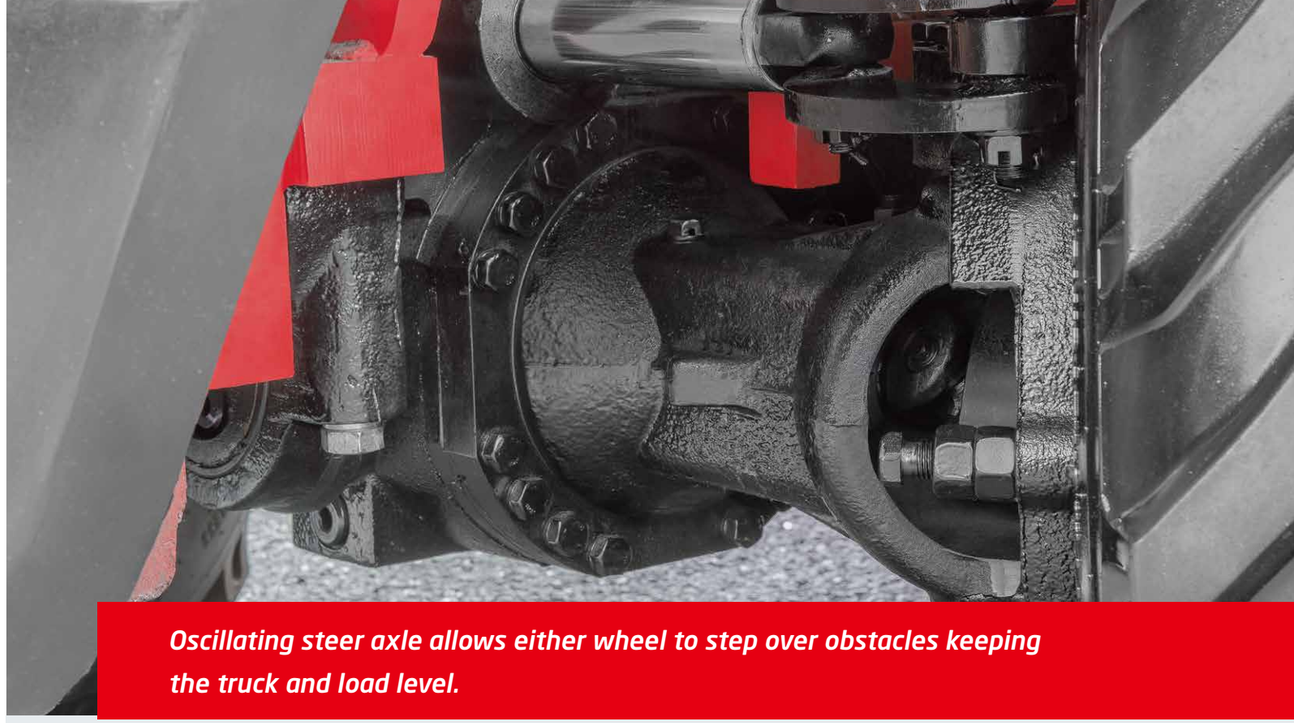
RELIABILITY

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-2B, more weight can be loaded.

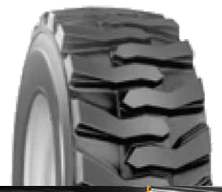


Oscillating steer axle allows either wheel to step over obstacles keeping the truck and load level.

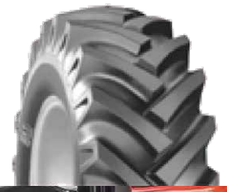
Wide-base deep tread tyres

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.

2WD/4WD
Front tyre:12-16.5



4WD
Rear tyre:10.0/75-15.3

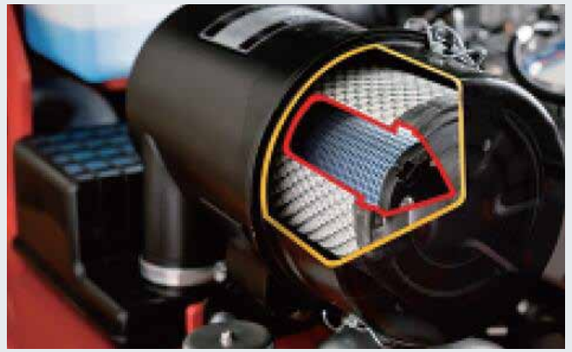


2WD
Rear tyre:27x10-12

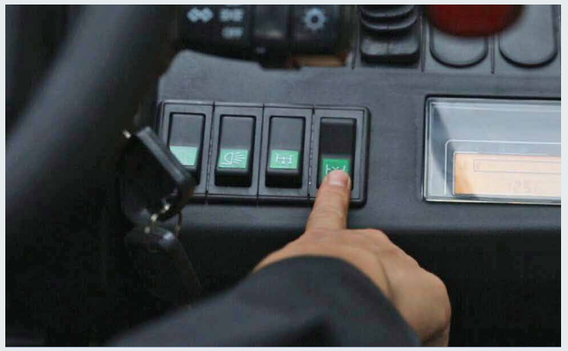




Dual air filter、extra capacity combined radiator with serpentine wave and optimized heat dissipation channel enhance the heat dissipation capability to keep engine reliability even in heavy-duty applications.



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 differerntial 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.

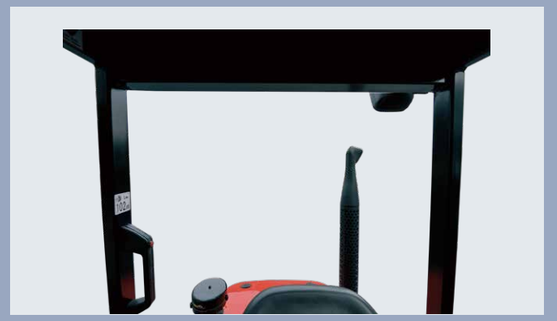




1. In addition to rubber damper between overhead and frames, compound engine damper and full floating power train achieve flexible connection between frames and driving system, as a result, traveling vibrations and vibrations from the driving system are significantly reduced.



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.

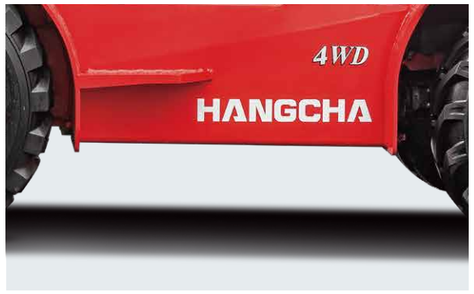
- / The cover on the Panel can be lifted up simply to check the brake fluid.
- / The two-piece design makes the floorboard easy to lift and remove for access to the power train.
- / The fasteners of the radiator cover can be turned easily by hand to enable quick inspections or servicing.



2WD/4WD ROUGH TERRAIN FORKLIFT



HIGH PERFORMANCE



Maneuverability

The distance to ground is 280mm, 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 25km/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

2WD/4WD ROUGH TERRAIN FORKLIFT SPECIFICATION:

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.								
	1.2	Manufacturer's type designation		CPCD15-XW97E-RT2	CPCD18-XW97E-RT2	CPCD15-XW33E-RT2	CPCD18-XW33E-RT2	CPCD15-XW97C-RT4	CPCD18-XW97C-RT4	CPCD15-XW33C-RT4	CPCD18-XW33C-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)	1500	1800	1500	1800	1500	1800	1500	1800
	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)	510	510	510	510	510	510	510	510
	1.9	Wheelbase	y (mm)	1880	1880	1880	1880	1880	1880	1880	1880
Weight	2.1	Service Weight	kg	3800	3950	3800	3950	3900	4050	3900	4050
	2.2	Axle loading, laden front/rear	kg	4400/900	4750/1000	4400/900	4750/1000	4450/950	4800/1050	4450/950	4800/1050
	2.3	Axle loading, unladen front/rear	kg	1710/2090	1730/2220	1710/2090	1730/2220	1750/2150	1770/2280	1750/2150	1770/2280
Tyres,chassis	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	12-16.5-14PR	12-16.5-14PR	12-16.5-14PR	12-16.5-14PR	12-16.5-14PR	12-16.5-14PR	12-16.5-14PR
	3.3	Tyre size, rear		27×10-12-12PR	27×10-12-12PR	27×10-12-12PR	27×10-12-12PR	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/2	2x/2	2x/2	2x/2	2x/2x	2x/2x	2x/2x	2x/2x
	3.6	Tread, front	b_{10} (mm)	1140	1140	1140	1140	1140	1140	1140	1140
	3.7	Tread, rear	b_{11} (mm)	1168	1168	1168	1168	1186	1186	1186	1186
Dimensions	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)	2165	2165	2165	2165	2165	2165	2165	2165
	4.3	Free lift	h_2 (mm)	155	155	155	155	155	155	155	155
	4.4	Lift	h_3 (mm)	3000	3000	3000	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h_4 (mm)	4031	4031	4031	4031	4031	4031	4031	4031
	4.7	Height of overhead guard (cabin) Std.	h_6 (mm)	2200	2200	2200	2200	2200	2200	2200	2200
	4.19	Overall length	l_1 (mm)	4120	4120	4120	4120	4120	4120	4120	4120
	4.20	Length to face of forks	l_2 (mm)	3050	3050	3050	3050	3050	3050	3050	3050
	4.21	Overall width	b_1 (mm)	1450	1450	1450	1450	1450	1450	1450	1450
	4.22	Fork dimensions	s/e/l (mm)	35×100×1070	35×100×1070	35×100×1070	35×100×1070	35×100×1070	35×100×1070	35×100×1070	35×100×1070
	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
	4.25	Distance between fork-arms	b_5 (mm)	200-1150	200-1150	200-1150	200-1150	200-1150	200-1150	200-1150	200-1150
	4.31	Ground clearance, laden, below mast	m_1 (mm)	235	235	235	235	235	235	235	235
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	280	280	280	280	280	280	280	280
	4.34	Aisle width for pallets 800 x 1200 lengthways	A_{st} (mm)	4710	4710	4710	4710	5110	5110	5110	5110
	4.35	Turning radius	W_a (mm)	2800	2800	2800	2800	3200	3200	3200	3200
Performance data	5.1	Travel speed, laden/unladen	km/h	23/25	23/25	23/25	23/25	23/25	23/25	23/25	23/25
	5.2	Lift speed, laden/unladen	m/s	0.620/0.640	0.620/0.640	0.620/0.640	0.620/0.640	0.620/0.640	0.620/0.640	0.620/0.640	0.620/0.640
	5.3	Lowering speed, laden/unladen	m/s	0.500/0.450	0.500/0.450	0.500/0.450	0.500/0.450	0.500/0.450	0.500/0.450	0.500/0.450	0.500/0.450
	5.5	Drawbar pull, laden	N	31000	33000	31000	33000	31000	33000	31000	33000
	5.7	Gradeability, laden	%	60	60	63	63	60	60	63	63
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
		Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Combustion-engine	7.1	Engine manufacturer/type		KUBOTA V2607-CR-E5B	KUBOTA V2607-CR-E5B	YANMAR 4TNE98	YANMAR 4TNE98	KUBOTA V2607-CR-E5B	KUBOTA V2607-CR-E5B	YANMAR 4TNE98	YANMAR 4TNE98
	7.2	Engine power according to DIN ISO 1585	kW/r/min	37.4/2400	37.4/2400	42.1/2300	42.1/2300	37.4/2400	37.4/2400	42.1/2300	42.1/2300
	7.3	Rated speed	N·m/r/min	171.5/1500	171.5/1500	206/1700	206/1700	171.5/1500	171.5/1500	206/1700	206/1700
	7.4	Number of cylinders/displacement	(-)/(cm^3)	4/2615	4/2615	4/3319	4/3319	4/2615	4/2615	4/3319	4/3319
	7.10	Battery voltage/nominal capacity	V/Ah	12/90	12/90	12/90	12/90	12/90	12/90	12/90	12/90
Addition data	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	60	60	60	60	60

1.5-1.8t Mast:(pneumatic)

Type	Model	Max.fork height	Overall height			Free lift		Front Overhang	Tilt range		Capacity max height			
			Lowered (mm)	Extended		Without backrest (mm)	With backrest (mm)		FWD	BWD	Load Center 500mm			
				Without backrest (mm)	With backrest (mm)			(mm)			ISO 22915-2		ISO 22915-13	
		mm	1.5/1.8t	1.5/1.8t	1.5/1.8t	1.5/1.8t	1.5/1.8t	1.5/1.8t	(°)	(°)	1.5t	1.8t	1.5t	1.8t
Wide view mast	RTC18M300	3000	2165	3759	4031	155	155	510	10	12	1500	1800	1500	1800
	RTC18M330	3300	2315	4059	4331	155	155	510	10	12	1500	1800	1500	1800
	RTC18M350	3500	2415	4259	4531	155	155	510	10	12	1500	1800	1500	1800
	RTC18M370	3700	2565	4459	4731	155	155	510	10	12	1500	1800	1500	1800
	RTC18M400	4000	2765	4759	5031	155	155	510	10	12	1500	1800	1500	1800
	RTC18M450	4500	3015	5259	5531	155	155	510	10	12	1500	1800	1500	1800
Wide view full free triplex mast	RTC18N400	4000	2080	4819	5031	1271	1059	522	10	12	1500	1800	1500	1800
	RTC18N430	4300	2180	5119	5331	1371	1159	522	10	12	1500	1800	1500	1800
	RTC18N450	4500	2230	5319	5531	1421	1209	522	10	12	1500	1800	1500	1800
	RTC18N470	4700	2330	5519	5731	1521	1309	522	10	12	1500	1800	1400	1550
	RTC18N500	5000	2480	5819	6031	1671	1459	522	6	6	1400	1700	1200	1450
	RTC18N550	5500	2680	6319	6531	1871	1659	522	6	6	800	1000	500	800
	RTC18N600	6000	2930	6819	7031	2121	1909	522	6	6	500	800	400	650

With integral sideshifter minus 100kg,with sideshifter minus 200kg.

