



HANGCHA GROUP CO., LTD.

Factory site: 666 Xiangfu Road,  
Hangzhou, Zhejiang, China (311305)

Tel: +86-571-88926735 88926755  
Fax: +86-571-88926789 88132890

sales@hcforklift.com  
www.hcforklift.com



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ISO45001  
ISO45001:2018



ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## A Series Man-down Turret Truck

with capacities of 1,200kg

The World of Hangcha  
SINCE 1956



# A Series Man-down Turret Truck

A series Man-down Turret Truck is applicable for use in warehouses that need to be upgraded or have limited storage space. The attachment can rotate 180 degrees and can stack goods left and right from the aisle. This greatly improves the space utilization rate. The ergonomically-designed comfortable vehicle has a wide operating vision and a stable control system and is further optimized and improved in terms of configuration, parameter, performance, safety, cost, etc.



## Comfort

- / With its optimized ergonomic design and the imported Grammer fingertip system, proportional adjustments can improve the comfort and reliability greatly.
- / The soft and comfortable mechanical shock-absorbing seat can reduce the operator's fatigue.
- / The LORD sensor with an adjustable damping mechanism enables a good hand feel and a limiting function.
- / Spacious cab, suspension seat and intuitive layout of all controls all provide comfortable compartment. Low step in height is easy for access.



A perfect interface between operator and truck has been achieved with the HANGCHA ergonomic design concept

## Safety

- / With mature technology, the ZF transmission assembly is highly reliable.
- / The regenerative braking system provides safer and more reliable driving.
- / Speed reductions functions makes the driving smoother and safer.
- / The smart of HANGCHA control system continuously monitors the truck's technical potential in order to deliver optimum simultaneous travel speeds relative to lift height.
- / All round visibility with the ergonomically designed structure improve the safety greatly.



Camera systems for driving and pallet handling



Rail or wire guidance

## Stability

- / The center of gravity of the vehicle is moved backwards and the reduced load distance provides great longitudinal stability.
- / Proportional acceleration and proportional braking enable less impact during acceleration and braking.



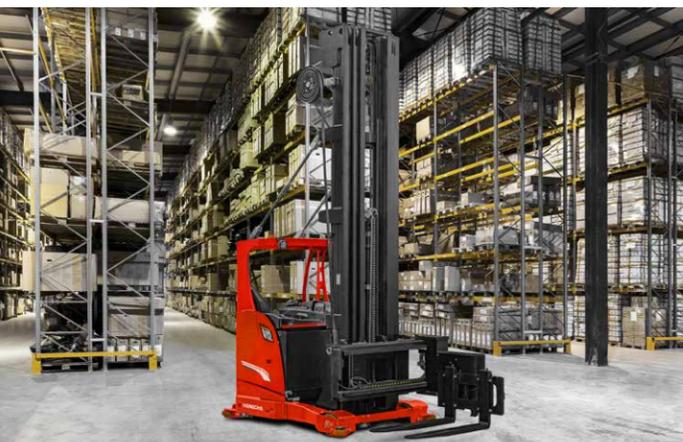
Fully open door enables easy repair and maintenance

## Maintainability

- / AC drive motor and lifting motor are all maintenance-free.
- / AC steering motor is maintenance-free also.



Battery side roll out



## Productivity

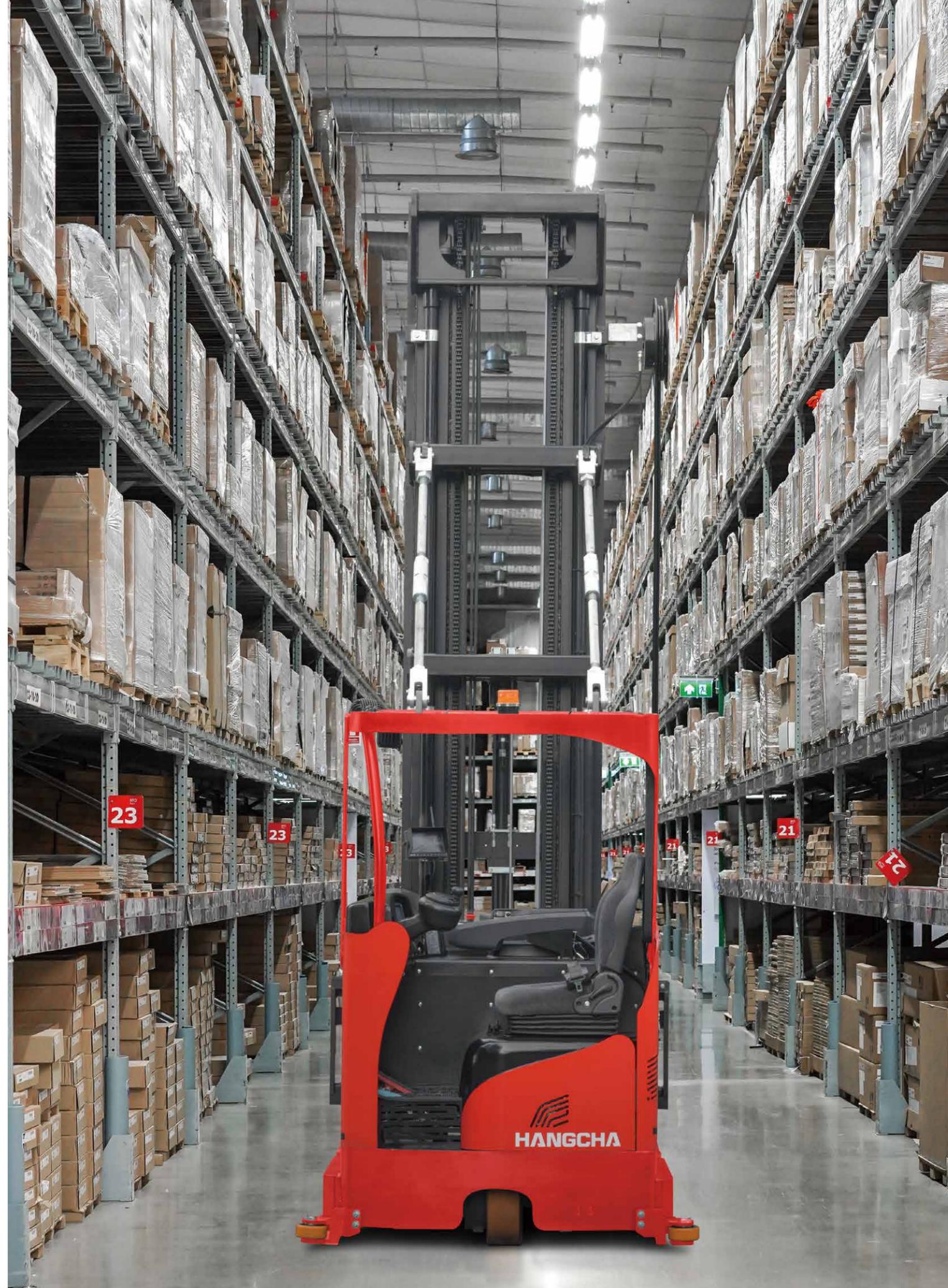
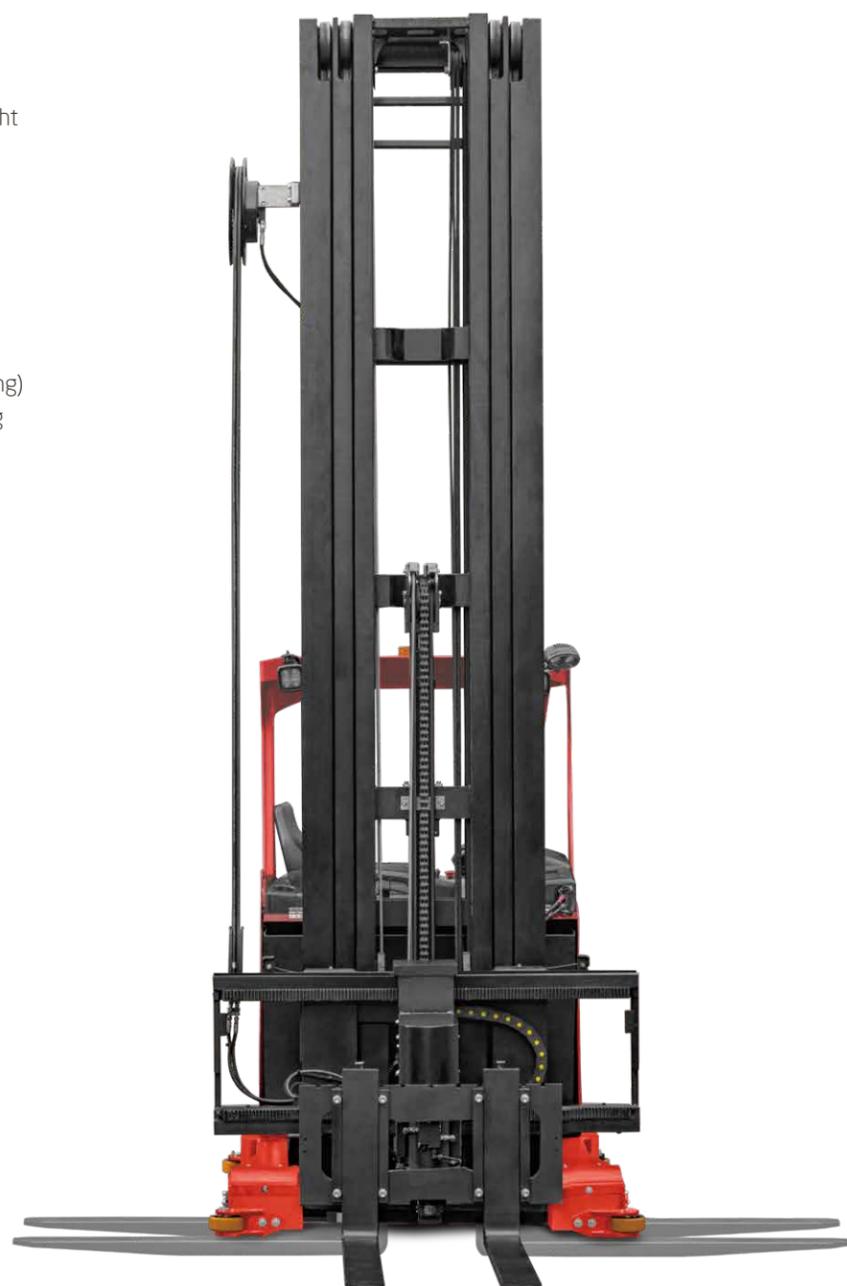
- / The unique modular design ensures that an individual truck specification can match the application precisely in order to maximise productivity at all times.
- / The driving system adopts a gearbox with a large speed ratio, so that the motor requires a higher speed and a smaller torque.
- / The LED headlights and alarm lights provided high brightness and low energy consumption.

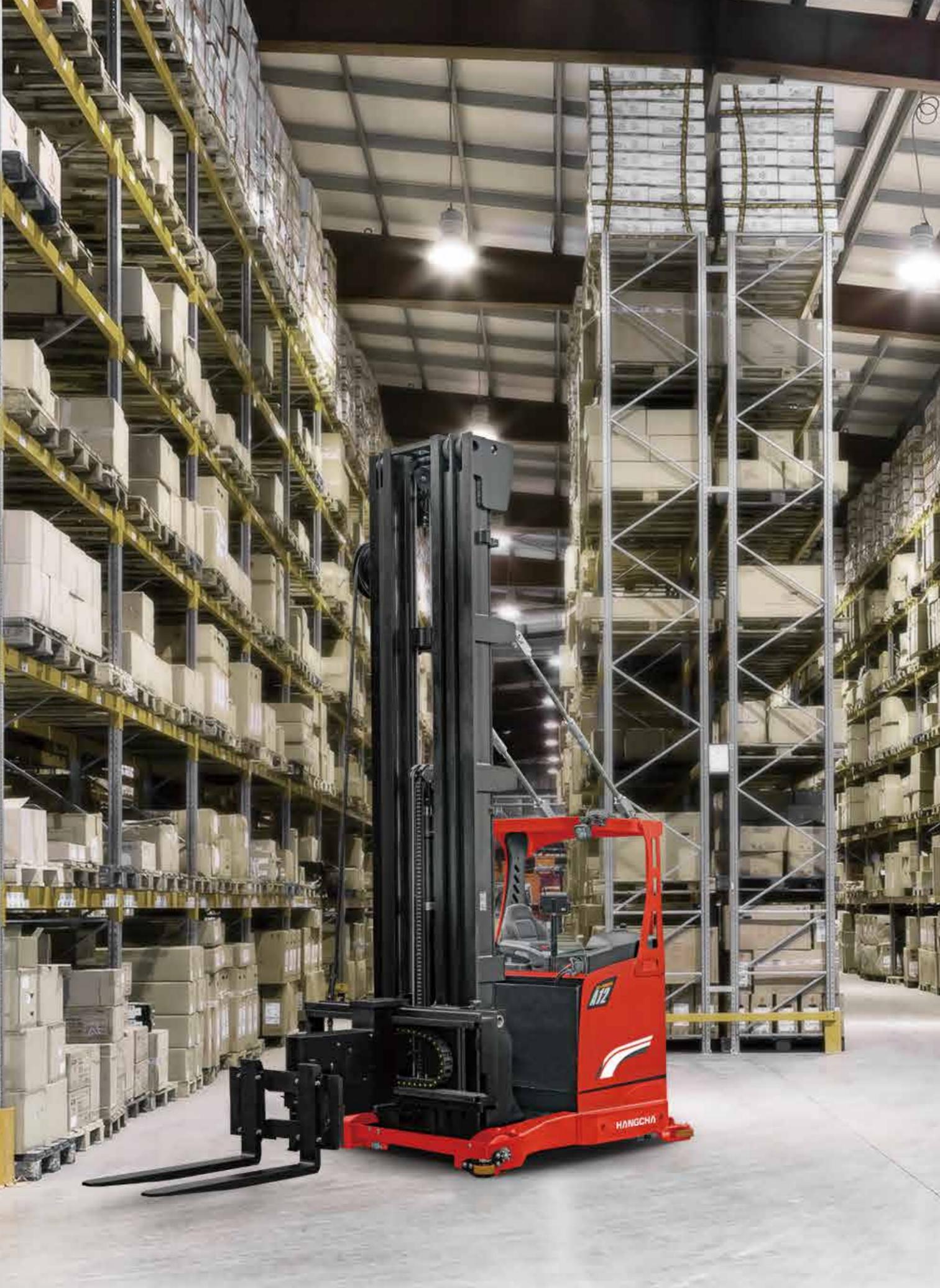
## Standard configuration

- / Headlights (LED) + alarm lights (LED) + blue light
- / Sauer Danfoss quadruple valve
- / AC driving (6.5kw) + AC lifting (12.8kw)
- / EPS system
- / Fingertip system
- / Inmotion AC control system
- / Battery side roll out
- / LORD sensor
- / Regenerative braking (reversing, neutral, braking)
- / Camera systems for driving and pallet handling
- / Standard battery: 48V/525Ah
- / Duplex 5m mast
- / Lowering locking
- / Reversing buzzer

## Options configuration

- / Altimeter
- / Pin code access
- / Retroreflector
- / Fire extinguisher
- / Maximum battery capacity: 775Ah
- / Lifting buffering
- / Lift height preselection
- / Fire extinguisher
- / Magnetic stripe guidance
- / Triplex mast
- / Soft landing
- / Lithium battery 51.52V/500Ah





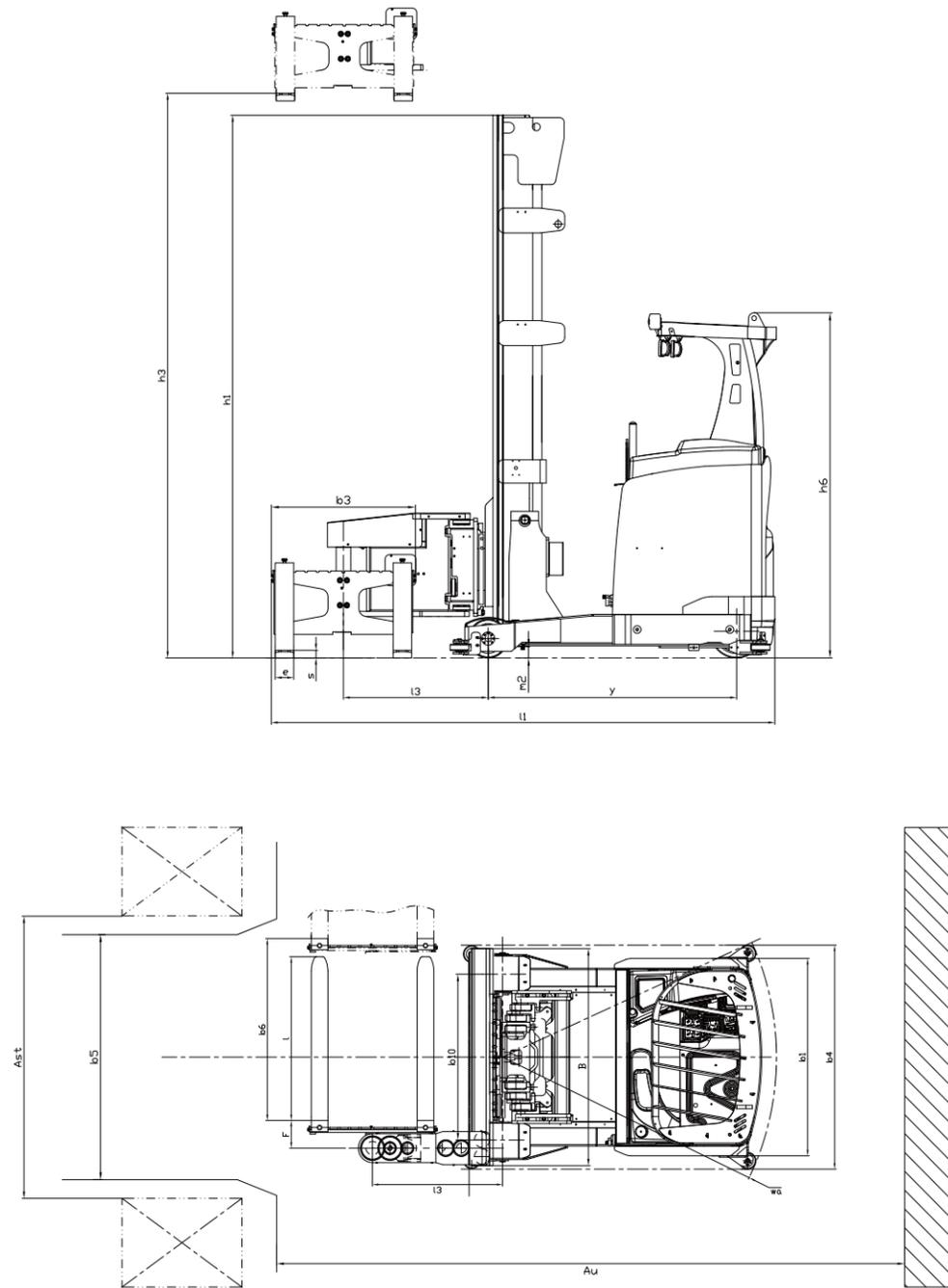
## A Series 1.2t Man-down Turret Truck Specification

Characteristics	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
	1.2	Manufacturer's model designation		CSD12-AED6*
	1.3	Power unit		Electric
	1.4	Operation		Seated
	1.5	Load carrying capacity	Q(kg)	1200
	1.6	Load centre	c(mm)	600
	1.9	Wheelbase	y(mm)	1610
Weight	2.1	Weight(incl.battery)	Kg	5065
Wheels	3.1	Tyres		Polyurethane
	3.2	Tyre size,front	mm	Ø343×140
	3.3	Tyre size,rear	mm	Ø250×105
	3.5	Wheels,number front/rear(x=drive wheel)		4/1 ×
	3.6	Track width,rear	b1o(mm)	1184
	Basic Dimensions	4.2	Height of mast,lowered	h1(mm)
4.4		Lift height	h3(mm)	5000
4.5		Height,mast raised	h4(mm)	6000
4.7		Height to top of overhead guard	h6(mm)	2216
4.19		Over length(incl.forks)	l1(mm)	3264
4.21		Over width	b1/b2(mm)	1410/1500
4.22		Fork dimensions	s/e/l(mm)	50×122×1220
4.24		Width of fork carriage	b3(mm)	900
4.27		Width over side guide rollers	b4(mm)	1600
4.29		Lateral reach travel	b6(mm)	1300
4.32		Ground clearance at centre of wheelbase	m2(mm)	65
4.34		Aisle width	Ast (mm)	1750
4.35		Turning radius	Wa(mm)	1975
4.38		Centre of axle to fork pivot	l3(mm)	938
4.40		Width of reach carriage	B(mm)	1550
4.41	Head width	F(mm)	155	
4.42	Transfer aisle width(min.)	Au(mm)	3800	
Performance	5.1	Travel speed,with/without load	Km/h	6/8
	5.2	Lift speed,with/without load	m/s	0.300/0.400
	5.3	Lowering speed,with/without load	m/s	0.400/0.300
	5.4	Reach speed,with/without load	m/s	0.100/0.100
	5.10	Brakes		Regenerative
	E-motors	6.1	Drive motor,power S2 60 min	kW
6.2		Lift motor,Power at S3 15%	kW	AC 12.8
6.3		Battery		DIN-C
6.4		Battery type,voltage,capacity(5h)	V/Ah	48/525
6.5		Battery weight(±5%)	kg	1119
Misc	8.1	Type of drive control		INMOTION
	8.4	Noise level at operator's ear	dB(A)	< 75

Note: \* CE model

## Mast Specification

Type	Model	Lifting height h3	Mast lowered h1	Mast extended h4	Free lifting height h2	Load capacity center at 600mm	
						1.2t	kg
Wide view duplex mast	ASEL2M	5000	3500	6000	/	1200	1200
		5500	3700	6500	/	1150	1150
		6000	4000	7000	/	1100	1100
		6500	4250	7500	/	1050	1050
		7000	4500	8000	/	1000	1000
		7500	4750	8500	/	950	950
		8000	5000	9000	/	900	900
		8500	5250	9500	/	850	850
		9000	5500	10000	/	800	800
		10000	5750	10500	/	750	750
Full free triplex mast	ASEL2N	5000	2800	6100	1700	1200	1200
		5500	2970	6620	1850	1150	1150
		6000	3140	7140	2000	1100	1100
		6500	3310	7610	2200	1050	1050
		7000	3480	8130	2350	1000	1000
		7500	3650	8650	2500	950	950
		8000	3810	9110	2700	900	900
		8500	3980	9630	2850	850	850
		9000	4140	10140	3000	800	800
		9500	4300	10600	3200	750	750
		10000	4500	11150	3350	700	700



RATED CAPACITY AND LOAD DIAGRAM

