



ZHEJIANG HANGCHA IMP. & EXP. 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



Follow us on  
Facebook



Follow us on  
YouTube



Follow us on  
WeChat



Download "Hangcha  
Forklift" App



ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

2022 VERSION 1.1 COPYRIGHT 2022/08

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning 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.



## A Series Man-down Turret Truck

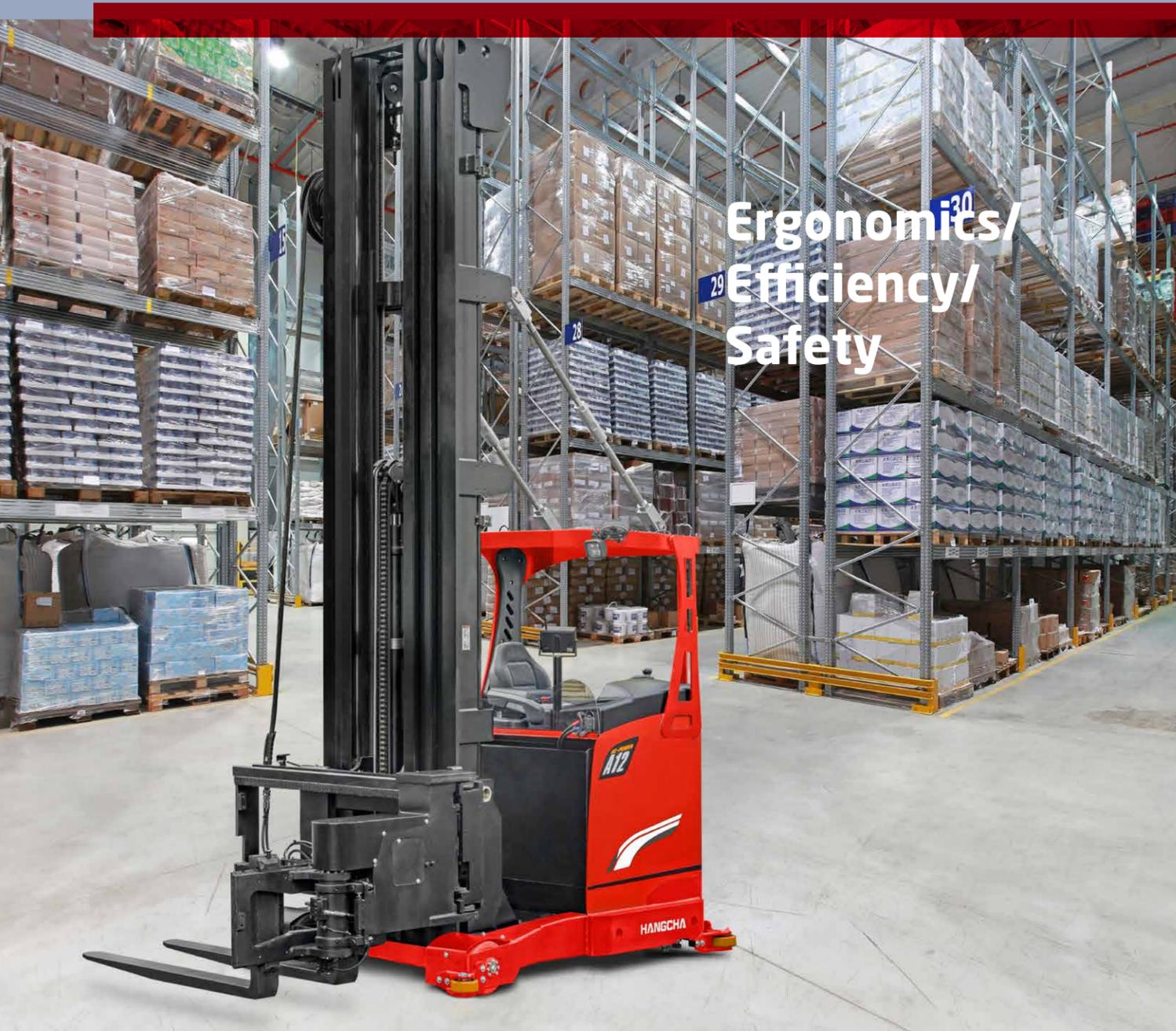
with capacities of 1,200kg

*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.



Ergonomics/  
Efficiency/  
Safety

## 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.
- / Synchronous swivel with stop at 90 degrees.
- / 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.



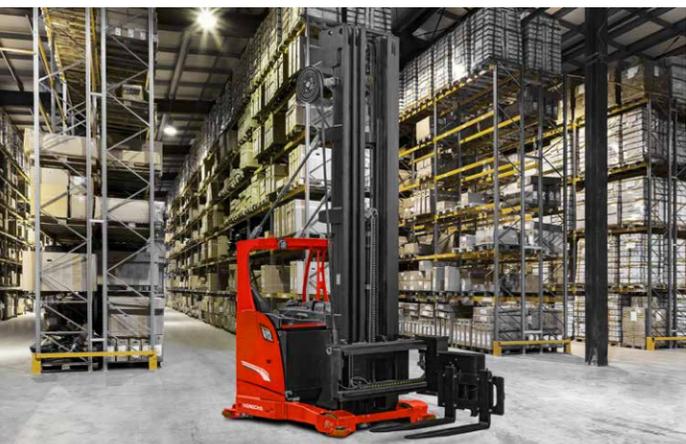
Fully open door enables easy repair and maintenance

## Maintainability

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



Battery side roll out



## Productivity

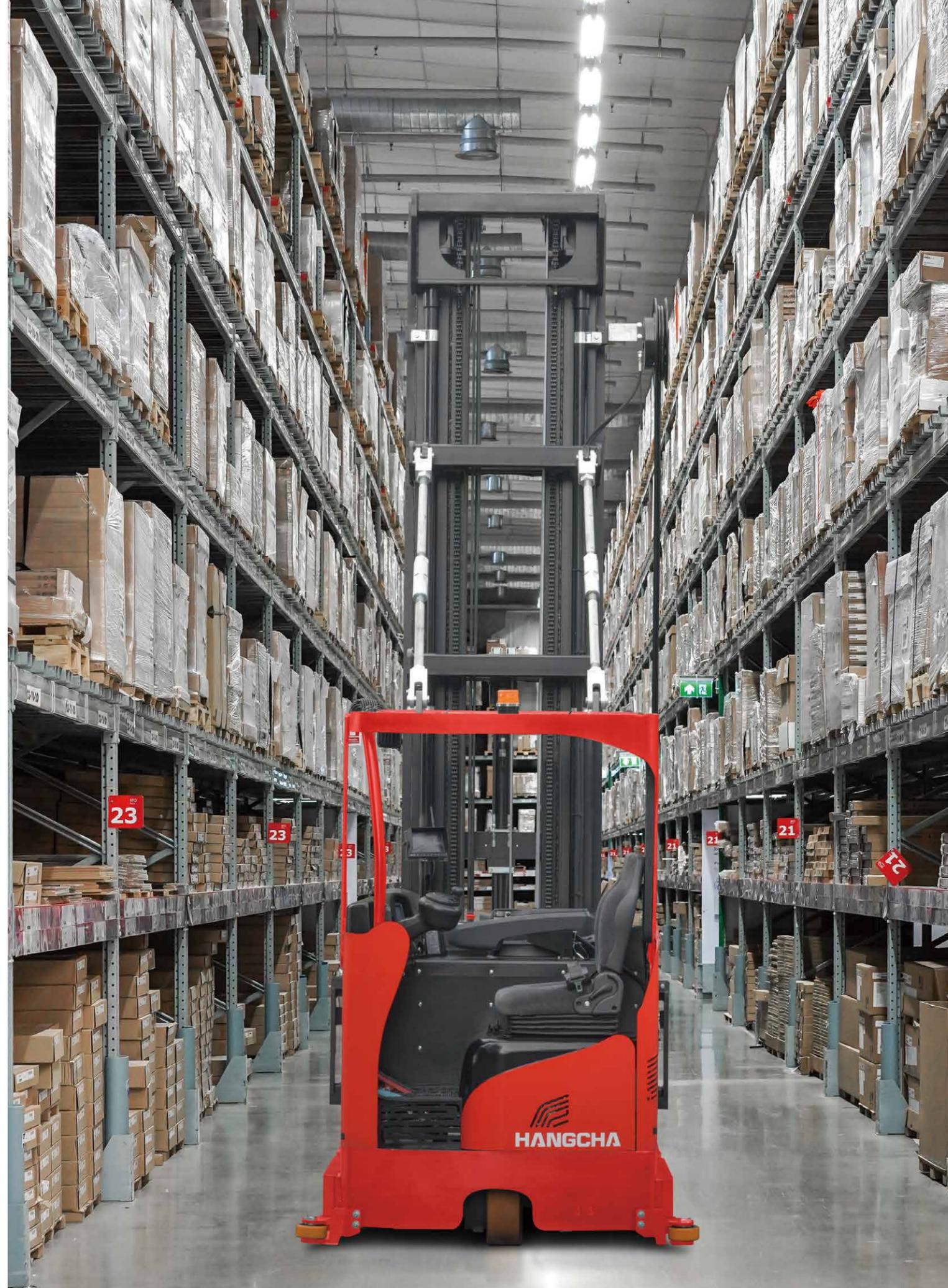
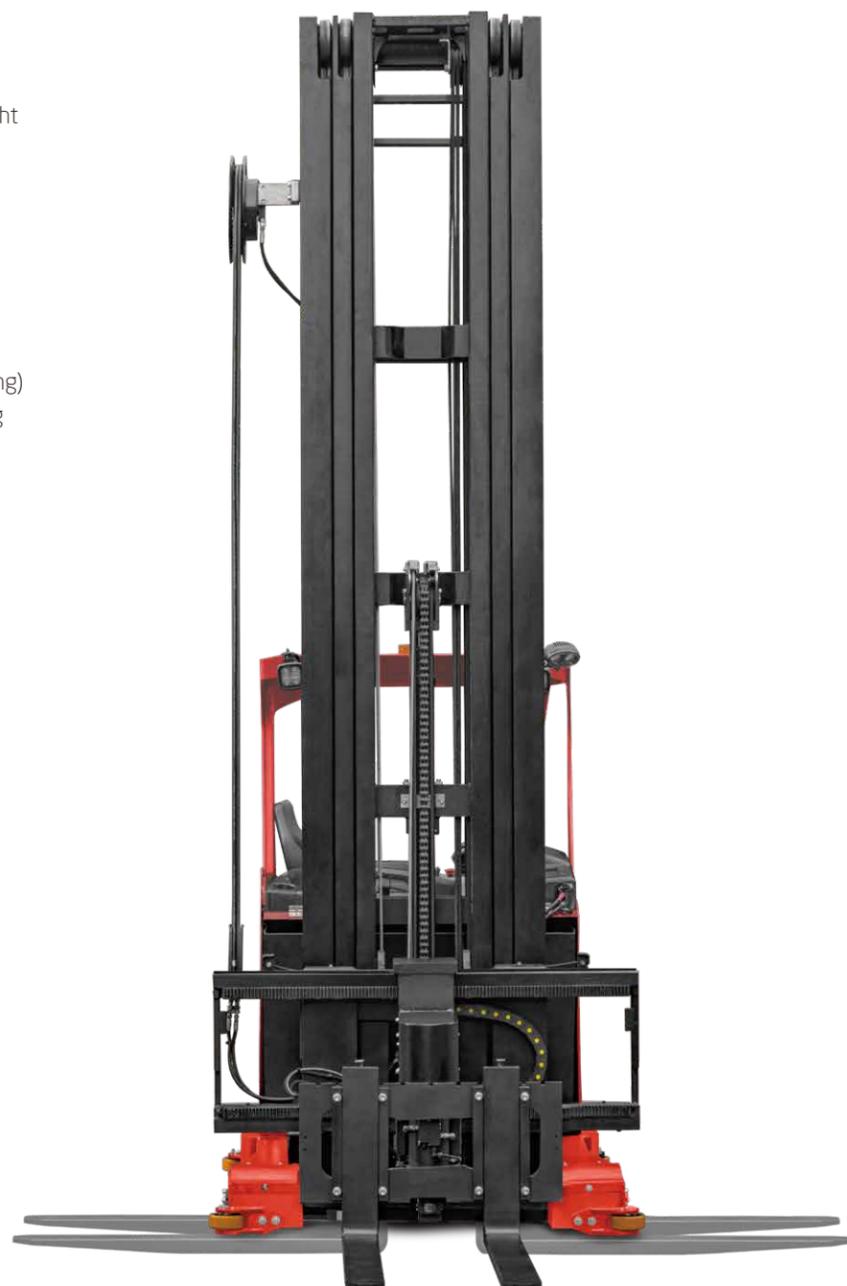
- / The unique modular design ensures that an individual truck specification can match the application precisely in order to maximise productivity at all times.
- / The driving system adopts a gearbox with a large speed ratio, so that the motor requires a higher speed and a smaller torque.
- / The LED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



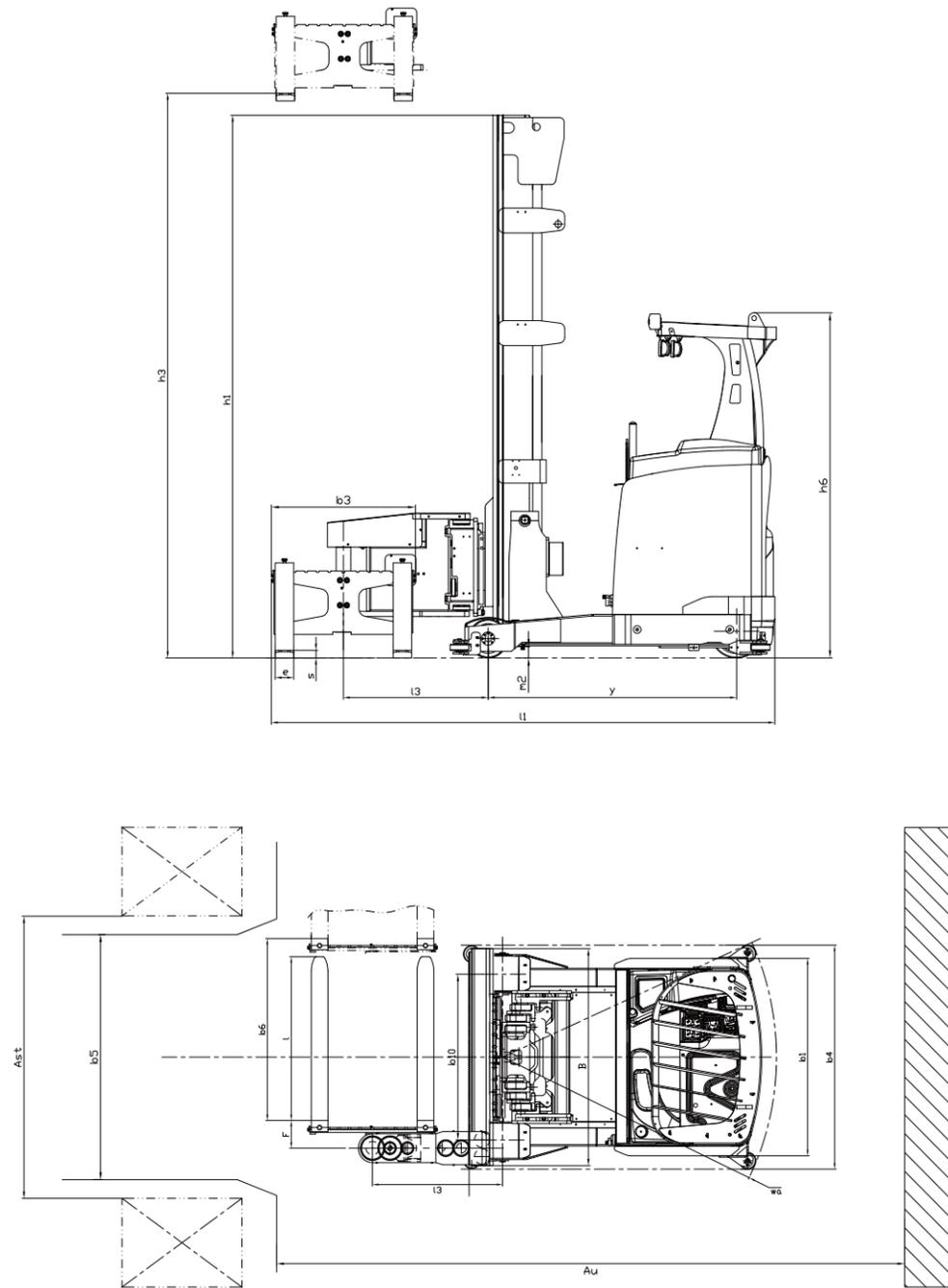


## A Series 1.2t Man-down Turret Truck Specification

		HANGCHA GROUP CO.,LTD.		
Characteristics	1.1	Manufacturer		
	1.2	Manufacturer's model designation	CSD12-AED2	
	1.3	Power unit	Electric	
	1.4	Operation	Seated	
	1.5	Load carrying capacity	Q(kg)	1200
	1.6	Load centre	c(mm)	600
Weight	1.9	Wheelbase	y(mm)	1610
	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	b <sub>10</sub> (mm)	1184
Basic Dimensions	4.2	Height of mast,lowered	h <sub>1</sub> (mm)	3500
	4.4	Lift height	h <sub>3</sub> (mm)	5000
	4.5	Height,mast raised	h <sub>4</sub> (mm)	6000
	4.7	Height to top of overhead guard	h <sub>6</sub> (mm)	2216
	4.19	Over length(incl.forks)	l <sub>1</sub> (mm)	3264
	4.21	Over width	b <sub>1</sub> /b <sub>2</sub> (mm)	1410/1500
	4.22	Fork dimensions	s/e/l(mm)	50×122×1220
	4.24	Width of fork carriage	b <sub>3</sub> (mm)	900
	4.27	Width over side guide rollers	b <sub>4</sub> (mm)	1600
	4.29	Lateral reach travel	b <sub>6</sub> (mm)	1300
	4.32	Ground clearance at centre of wheelbase	m <sub>2</sub> (mm)	65
	4.34	Aisle width	Ast (mm)	1750
	4.35	Turning radius	Wa(mm)	1975
	4.38	Centre of axle to fork pivot	l <sub>3</sub> (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	AC 6.5
	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

## Mast Specification

Type	Model	Lifting height h <sub>3</sub>	Mast lowered h <sub>1</sub>	Mast extended h <sub>4</sub>	Free lifting height h <sub>z</sub>	Load capacity center at 600mm	
						1.2t	kg
Wide view duplex mast	ASE12M	5000	3500	6000	/	1200	
		5500	3700	6500	/	1150	
		6000	4000	7000	/	1100	
		6500	4250	7500	/	1050	
		7000	4500	8000	/	1000	
		7500	4750	8500	/	950	
		8000	5000	9000	/	900	
		8500	5250	9500	/	850	
		9000	5500	10000	/	800	
		Full free triplex mast	ASE12N	5000	2800	6100	1700
5500	2970			6620	1850	1150	
6000	3140			7140	2000	1100	
6500	3310			7610	2200	1050	
7000	3480			8130	2350	1000	
7500	3650			8650	2500	950	
8000	3810			9110	2700	900	
8500	3980			9630	2850	850	
9000	4140			10140	3000	800	
9500	4300			10600	3200	750	
10000	4500	11150	3350	650			



RATED CAPACITY AND LOAD DIAGRAM

