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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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A Series Electric Forklift Truck

with capacities of 1,000 to 3,500kg

The World of Hangcha



Move freely, lift freely

The newest generation A series 1-3.5t electric counter balance truck is new product series of HANGCHA. The totally new designed outline, safety, comfortable and reliability are fully improved, and the whole truck's performance is also increased.



Appearance

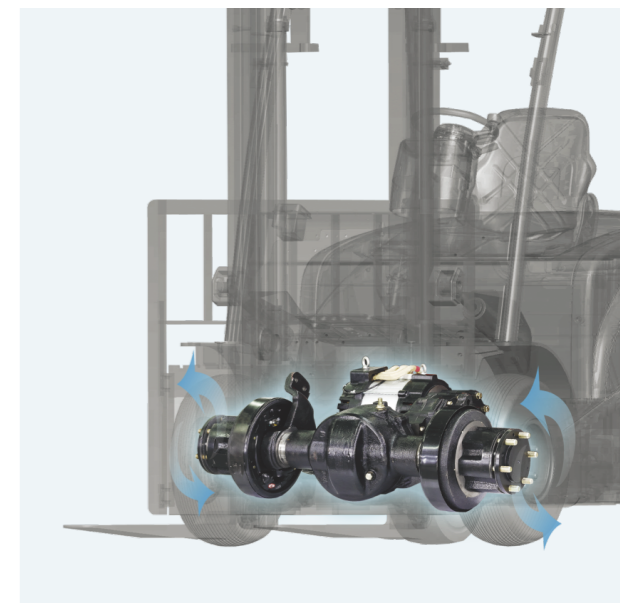
Applied advanced new designing method, world famous designing company designed, make the eye catchable stream outline of the truck chassis. Small dimension, simple appearance, and metal material applied for the exposed parts, all provide robust construction of the A series.

Power Train



Stability

Advanced parallel layout of drive motor and lower located battery up to chassis bottom provide good stability to the truck.



Intelligent

- / First-class R&D and testing facility.
- / First-class production quality management system.
- / First-class manufacturing facility.
- / First-class environment and control.



Comfortable Operation

Ergonomic

The new designed steering wheel, new brake system and the easy-to-operate levers provide total handling operation.



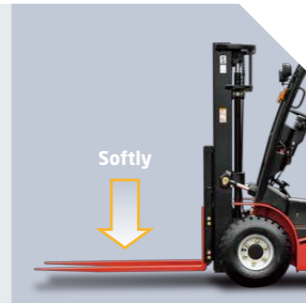
Seat

The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.



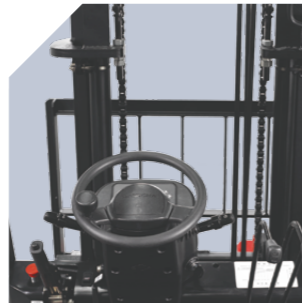
Soft landing

In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free dup-lex mast), as a result, the noise and shock of the mast significantly decreases.



Wide view mast

New designed wide view mast provides better forward view ability.



Advanced

High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance, and better matches the motor. Regenerative braking, reverse current braking and anti-slide on slop function guarantee the operation safety.

Multi functions big LED dashboard provides running hours, battery power, and self diagnosis functions, and with high accuracy even in bad environment.

Regenerative braking is more energy saving and efficiency during truck's deceleration, direction changing, and driving on downwards slope.

C3/C4 system

CURTIS big LED dashboard. Non-handset Operation



Imported high performance, and new generation AC controller

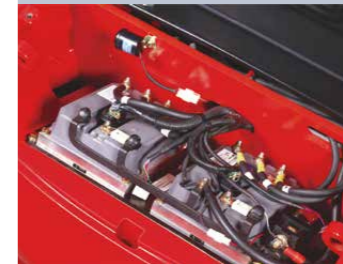


D2 system

Inmotion dashboard



Inmotion GEN 6 controller



1. Low center of gravity provides good turning stability, and better operator's driving comfort. 150mm adjustable distance of seat provides better operator's comfort of different operators.
2. Soft landing system is applied for A series. When the forks lower to 60-100mm to ground, the soft landing system is auto operated, and to avoid the forks dashing against the ground. New designed broad view mast provides better forward visibility.
3. Easy to see LED dashboard provides friendly interaction.
4. Low noise, no exhaust emission, and low energy consumption, all meet environment friendly requirement.



Service Ability

Full open battery cover, easy for battery service easy opened counter weight cover, to protect internal controller to avoid water and dust World famous brand electronics are applied in motor controller, contactor, power plug, emergency switch, dashboard, and accelerators.

Overloaded protection system is applied for electronics and hydraulics.

CE certificate is available.



Battery cover with auto lock spring for easy battery service and replacing, and clean the oil tank



Side battery changing solution is applied for heavy and long time application



Big dimension anti-slide rubber pad



Protective roof











Easy opened counterweight cover is to protect the internal controllers to avoid water and dust

Accessory

Standard Features	Options
/ High efficiency AC driving motor	/ Side way battery change (Using pallet truck or trolley)
/ Special for truck's lifting motor	/ Big capacity Chinese made battery
/ Multi-functions dashboard	/ Cold store application
/ Full electronic controlled travelling, lifting and steering	/ High performance import battery
/ Front lighting system, turning indicator, LED combined three colors rear lights	/ Battery charger
/ Big dimension rubber pad	/ Rear lighting system
/ Sheet metal stamping made front and rear bottom plate	/ Front dual tyre
/ Sheet metal stamping made left and right cover and battery cover	/ SE tyre
/ Reversing beeper	/ Non-marking tyre
/ Full hydraulic steering	/ Suspension seat with higher OHG
/ Storage box	/ Left and right rear view mirror
/ Soft landing system	/ Reversing hand grip with horn button
/ Standard forks in red	/ Wide fork carriage
/ 3m duplex wide view mast	/ Wide or higher load backrest
/ Tow coupling	/ Other dimension forks
/ Center located rear view mirror	/ Duplex mast with full free lift
	/ Triplex mast
	/ Integrated side shift
	/ Other attachments
	/ OPS
	/ Blue spot light
	/ Other specification on demand

Color Selection

	Color NO. STD. Yellow		Color NO. STD. Red
	Color NO. RAL2000 Yellow Orange		Color NO. RAL6018 Traffic Green
	Color NO. RAL7032 Pebble Grey		Color NO. RAL6029 Mint Green
	Color NO. RAL5018 Truquoise Blue		Color NO. PANTONE 584C Grass Green

A Series 1.0-3.5t Electric Forklift Specification

		HANGCHA GROUP CO.,LTD.									
		CPD10-AC3/C4/D2	CPD15-AC3/C4/D2	CPD18-AC3/C4/D2	CPD20-AC3/C4/D2	CPD25-AC3/C4/D2	CPD30-AC3/C4/D2	CPD35-AC3/C4/D2	CPD35-AC3/C4/D2	CPD35-AC3/C4/D2	
Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.								
	1.2	Manufacturers type designation	electric	electric	electric	electric	electric	electric	electric	electric	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	seated	seated	seated	seated	seated	seated	seated	seated	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Q (kg)	1000	1500	1750	2000	2500	2500	3000	3500
	1.5	Load capacity/rated load	c (mm)	500	500	500	500	500	500	500	500
	1.6	Load centre distance	x (mm)	406	406	406	455	455	455	475	475
	1.8	Load distance, centre of drive axle to fork	y (mm)	1380	1380	1380	1485	1485	1625	1625	1625
	1.9	Wheelbase	kg	2940	2940	3090	3880	4180	4380	4850	5300
	Weight	2.1	Service Weight	kg	3900/540	3900/540	4300/590	5196/684	5920/760	6140/740	7060/790
2.2		Axle loading, laden front/rear	kg	1353/1587	1353/1587	1440/1650	1728/2152	1780/2400	1930/2450	2324/2526	2380/2920
2.3		Axle loading, unladen front/rear	kg	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	super elastic
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	6.00 - 9	6.00 - 9	21x8 - 9	23x9 - 10	23x9 - 10	23x9 - 10	23x9 - 10	23x10 - 12	
	3.2	Tyre size, front	5.00 - 8	5.00 - 8	5.00 - 8	18x7 - 8	18x7 - 8	18x7 - 8	18x7 - 8	200/50-10	
	3.3	Tyre size, rear	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	
	3.5	Wheels, number front rear (x = driven wheels)	b ₁₀ (mm)	888	888	938	1058	1058	1058	1058	1068
	3.6	Tread, front	b ₁₁ (mm)	897.5	897.5	897.5	960	960	960	960	960
	3.7	Tread, rear	a/β(°)	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10
	4.1	Tilt of mast/fork carriage forward/backward	h ₁ (mm)	1976	1976	1976	2006	2006	2006	2036	2186
Dimensions	4.2	Height, mast lowered	h ₂ (mm)	145/135/135	145/135/135	145/135/135	140	140	140	145	145
	4.3	Free lift	h ₃ (mm)	3000	3000	3000	3000	3000	3000	3000	3000
	4.4	Lift	h ₄ (mm)	3955	3955	3955	4056	4056	4056	4152	4152
	4.5	Height, mast extended	h ₅ (mm)	2130	2130	2130	2155	2155	2190	2190	2190
	4.7	Height of overhead guard STD.	h ₆ (mm)	2050	2050	2050	2075	2075	2110	2110	2110
	4.8	Height of overhead guard OPT.	h ₇ (mm)	1045	1045	1045	1070	1070	1070	1070	1070
	4.8	Seat height	h ₁₀ (mm)	275	275	275	303	303	303	303	303
	4.12	Coupling height	l ₁ (mm)	3018	3018	3018	3412	3412	3552	3572	3652
	4.19	Overall length	l ₂ (mm)	2098	2098	2098	2342	2342	2482	2502	2582
	4.20	Length to face of forks	b ₁ (mm)	1120	1120	1138	1265	1265	1265	1265	1302
	4.21	Overall width	s/e/l (mm)	35/120/920	35/120/920	35/120/920	40/122/1070	40/122/1070	40/122/1070	45/125/1070	50/125/1070
	4.22	Fork dimensions	b ₂ (mm)	1072	1072	1072	1118	1118	1118	1200	1200
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B	b ₃ (mm)	240/1000	240/1000	240/1000	240/1038	240/1038	240/1038	290/1100	290/1100
	4.24	Fork-carriage width	m ₁ (mm)	100	100	100	112	112	112	115	115
	4.25	Distance between fork-arms	m ₂ (mm)	110	110	110	120	120	125	125	125
	4.31	Ground clearance, laden, below mast	A _{st} (mm)	3506	3506	3506	3745	3745	3885	3905	3985
	4.32	Ground clearance, centre of wheelbase	A _{st} (mm)	3706	3706	3706	3945	3945	4085	4105	4185
	4.34.2	Aisle width for pallets 1000 x 1200 crossways	W _a (mm)	1900	1900	1900	2090	2090	2230	2230	2310
	4.34.2	Aisle width for pallets 800 x 1200 Lengthways	b ₁₃ (mm)	620	620	680	730	730	730	730	730
	4.35	Turning radius	km/h	14/14	14/14	13.5/14	14/14	14/14	14/14	14/14	12/13
4.36	Internal turning radius	m/s	0.29/0.44	0.29/0.44	0.285/0.44	0.28/0.44	0.23/0.43	0.23/0.43	0.25/0.4	0.21/0.4	
Performance data	5.1	Travel speed, laden/unladen	m/s	0.3/0.41	0.3/0.41	0.275/0.42	0.285/0.42	0.215/0.41	0.215/0.41	0.26/0.39	0.26/0.37
	5.2	Lift speed, laden/unladen	N	9000 /10000	9000 /10000	9500/11000	12000/12500	16000/17000	16000/17000	20000 /21000	20500/21000
	5.3	Lowering speed, laden/unladen	N	11000	11000	12000	14000	18000	18000	22000	23000
	5.5	Drawbar pull, laden/unladen	%	12/13	12/13	12/13	11/12	11/12	11/12	11/12	11/12
	5.6	Max. Drawbar pull, laden/unladen	%	15/16	15/16	15/16	13/14	13/14	13/14	13/14	13/14
	5.7	Gradeability, laden/unladen	s	5.3/5.0	5.3/5.0	5.3/5.1	5.2/4.6	5.3/4.7	5.3/5	5.3/5	5.5/5.2
	5.8	Max. gradeability, laden/unladen	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.9	Acceleration time, laden/unladen (0-10m)	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	5.10	Service brake	8 AC	8 AC	8 AC	11 AC	11 AC	11 AC	15AC	15AC	15 AC
	6.1	Drive motor rating S2 60 min	8.2 DC/8.6 AC/ 8.6 AC								
Electric engine	6.2	Lift motor rating at S3 15%	8.6 DC/8.6 AC/8.6 AC								
	6.3	Battery acc.to DIN 43 531/35/36 A,B,C,no	10 DC/10 AC/10 AC								
	6.4	Battery voltage, nominal capacity K5	no	no	no	no	no	no	no	no	no
	6.5	Battery weight	48/420	48/420	48/420	48/630	48/630	80/500	80/500	80/500	80/500
	6.5	Min. battery weight	760	760	760	1050	1050	1530	1530	1530	1530
	6.5	Max. battery weight	700	700	700	930	930	1200	1200	1200	1200
	6.5	Battery dimensions	kg	900	900	900	1200	1200	1550	1550	1550
6.6	Energy consumption acc. to VDI cycle	l/b/h(mm)	980*465*780	980*465*780	980*465*780	1028*570*780	1028*570*780	1028*710*780	1028*710*780	1028*710*780	
8.1	Type of drive control	kWh/h	4.4	4.4	4.6	5.0	5.8	5.8	6.5	6.7	
Addition data	9.1	Manufacturer	MOSFET/AC								
	10.1	Operating pressure for attachments	CURTIS / CURTIS / INMOTION GEN6								
	10.2	Oil volume for attachments	bar	145	145	145	175	175	175	175	175
	10.3	Hydraulic Tank - capacity (drain & refill)	l/min	65	65	65	65	65	65	65	65
	10.7	Sound pressure level at the driver's seat	liter(gal)	22	22	22	22	22	22	24	24
	10.7	Sound pressure level at the driver's seat	dB (A)	72	72	73	73	74	74	74	74
	10.8	Towing coupling, type DIN 15170	φ24 Pin	φ24 Pin	φ24 Pin	φ24 Pin	φ24 Pin	φ24 Pin	φ24 Pin	φ24 Pin	φ24 Pin

AC3: means Curtis AC traveling system with DC Pump system, semi-AC system

AC4: means Curtis AC traveling system with AC Pump system, full-AC system

AD2: means Inmotion AC traveling system with AC Pump system, full-AC system

