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A Series 3-Wheel Electric Forklift

with capacities of 2,600 to 4,000lbs







Appearance

/ Compact design meets the limited space operation requirement. Eyeball catching designed smooth outline and metal material applied for exposed parts, all provide robust construction of the A series three-pivot electric counterbalance forklift truck.

Maneuverability

/ Front dual separated driving motors can realize the wheels forward or backward independently, the small turning radius is suitable for narrow channel; Imported reducer, high power driving motor provides a reliable and strong performance.

High Efficiency

/ High power pump motor and low noise gear pump, both improve the lifting speed and work efficiency.

/ Regenerative braking during deceleration is more energy saving and effectively .

Comfort

/ Thanks to the new designed adjustable levers, the operator can work more comfortable. New designed dashboard is easy to see and provides friendly human-computer interaction and with running hours, self diagnosis functions and the battery power show.

/ Both the steering column and seat can be adjusted easily, every operator can find the best driving position.
 / Low vibration and suspension seat reduce the driver's

Stability

fatigue.

/ Sinking type battery layout provides good stability especially during cornering.

/ The soft landing system protects the forks from dashing against the ground.

Safety

/ Emergency switch is standard specification which meets the Euro safety regulation.

/ Both electronics and hydraulic system are equipped with overloading protection system.

/ Driving speed is automatically reduction during cornering.

Maintenance

/ Full opened battery cover is easy for battery service and changing.

/ The service engineer can remove the front floor board without any tool, it is convenient for the maintenance.

Advance

/ World famous controller, connectors, battery plug and emergency switch are applied to ensure the reliability of the performance and provides easy service.

/ High frequency MOSFET integrated control system provides accurate control of travelling, lifting and better adjustable performance that better matchs with the motor. No roll-back on ramp is also provided thanks to MOSFET controller. Motor brake is for regenerative braking during deceleration, direction changing, and downward slope.

Standard Specification

- / High efficiency AC driving motor
- / Multi-functions instrument
- / Front dual driving motors
- / Rubber floor mat
- / Solid tyre
- / Emergency disconnect switch
- / 2-valve inside chassis
- / LED headlight
- / Rear combination LED light
- / Panoramic rearview mirror (in the middle position of the overhead guard)
- / 118.1 inch duplex wide view mast
- / Adjustable steering column
- / Full electronic controlled travelling, lifting and steering
- / Horn and reversing buzzer
- / Toolbox and file folder
- / CAN-BUS system
- / Low noise gear pump (Brand: Shimadzu, Made in Japan)
- / Full hydraulic steering
- / Soft landing system
- / Non suspension seat: Grammer GS12 with switch
- / ZF reducer and SCHABMULLER traveling motor

Options

- / 3rd or 4th hydraulic function
- / 98.4~177.2 inch duplex mast
- / 169.3~255.9 inch triplex mast
- / Rear working LED light
- / Reversing assist grip with horn button
- / Integrated sideshifter
- / Other attachments
- / Other dimension forks
- / Special carriage and backrest
- / Big capacity battery

- / Non-marking tyre
- / Battery charger
- / Battery side roll-out (Using pallet truck)
- / Fingertip control on the adjustable armrest
- / Cold store protection
- / Suspension seat
- / Full closed cabin
- / Socket for other equipment
- / Blue spot light
- / OPS system



ront dual senarated motors



Panoramic rearview mirror



the levels forward



he small turning radius is suitable fo arrow aisle



A Series 3-Wheel Electric Forklift Truck

	1.1	Manufacturer						
<u></u>	1.2	Manufacturers type designation		CPDS15-AC6	HANGCHA GROUP CO.,LTD. CPDS16-AC6	CPDS18-AC6	CPDS20-AC6	
Distinguishing mark	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		electric	electric	electric	electric	
∣કું≥	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		seated	seated	seated	seated	
l ager	1.5	Load capacity/rated load	Q (lbs)	3000	3200	3500	4000	
│ ·듩	1.5 Coad capacity/rated load Q (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii			24	24	24	24	
) is	Load define distance Load distance, centre of drive axle to fork Wheelbase		x (in)	14.0	14.0	14.2	14.2	
-			y (in)	49.2	53.5	53.5	57.7	
=		2.1 Service Weight		6575	6884	7149	7657	
Weight	2.2	Axle loading, laden front/rear	lbs lbs	8583/1302	9047/1368	9598/1522	10481/1589	
ا ق	2.3	Axle loading, unladen front/rear	lbs	2978/3597	3177/3707	3177/4148	3376/4281	
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	103	solid	solid	solid	solid	
l	3.2	Tyre size, front		18x7 - 8	18x7 - 8	18x7 - 8	200/50-10	
sis	3.3			15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	
Tyres, chassis		3.5 Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	
6.5	3.6			35.8	35.8	35.8	36.0	
l	3.7	Tread, rear	b10 (in) b11 (in)	6.9	6.9	6,9	6.9	
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/6	6/6	6/6	6/6	
		Height, mast lowered	hı (in)	78.5	78.5	78.5	78.5	
	4.2			5.7	5.7	5.7	5.7	
H	4.4	Lift	h₂ (in) h₃ (in)	118.1	118.1	118.1	118.1	
	4.5	Height, mast extended	h ₄ (in)	155.3	155.3	155.3	155.3	
	4.7	Height of overhead guard STD.	hs (in)	80.3	80.3	80.3	80.3	
	7.7	Height of higher overhead guard OPT.	h ₆ (in)	83.9	83.9	84.8	84.8	
-	4.8	Seat height	h ₇ (in)	39.4	39.4	39.4	39.4	
	4.12	Coupling height	h10 (in)	19.7	19.7	19.7	19.7	
Dimensions	4.19	Overall length	lı (in)	106.7	110.9	111.1	115.4	
잃	4.20	Length to face of forks	Iz (in)	70.5	74.7	74.9	79.1	
i ii	4.21	Overall width	b1 (in)	42.8	42.8	42.8	44.1	
ا قِ ا	4.22	Fork dimensions	s/e/l (in)	1.4/3.9/36.2	1.4/3.9/36.2	1.4/3.9/36.2	1.6/4.8/36.2	
	4.23	Fork carriage DIN 15 173 ISO 2328, class/type A,B	(,	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	
	4.24	Fork-carriage width	b₃ (in)	39.4	39.4	39.4	39.4	
l	4.25	Distance between fork-arms	bs (in)	7.9/39.3	7.9/39.3	9.4/39.3	9.4/39.3	
l h	4.31	Ground clearance, laden, below mast	mı (in)	3.9	3.9	3.9	3.9	
l	4.32	Ground clearance, centre of wheelbase	m ₂ (in)	4.3	4.3	4.3	4.3	
			Ast (in)	123.4	127.4	127.4	131.6	
		Aisle width for pallets 800 x 1200 lengthways	Ast (in)	128.2	132.3	132.3	136.4	
	4.35			57.2	61.2	61.2	65.4	
	4.36	Internal turning radius	Wa (in) b13 (in)	24.4	26.8	28.7	28.7	
	5.1	Travel speed, laden/unladen	mph	9.9/9.9	9.9/9.9	9.9/9.9	9.3/9.3	
	5.2	Lift speed, laden/unladen	fpm	76.8/92.5	74.8/92.5	72.8/88.6	68.9/88.6	
ا س	5.3	Lowering speed, laden/unladen	fpm	90.6/86.6	90.6/86.6	90.6/82.7	92.5/82.7	
اقا	5.5	Drawbar pull, laden/unladen	lbf	764/888	742/877	719/854	686/832	
E ta	5.6	Max. Drawbar pull, laden/unladen	lbf	2698/2698	2608/2585	2585/2563	2518/2473	
formar Data	5.7	Gradeability, laden/unladen	%	16/18	16/18	15/17	13/15	
 	5.8	Max. gradeability, laden/unladen	%	20/20	20/20	18/20	15/18	
ا م	5.9	Acceleration time, laden/unladen (0-10m)	S	4.6/4.2	4.7/4.3	4.8/4.4	4.9/4.5	
[5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	
[5.11	Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	
	6.1	Drive motor rating S2 60 min	kW	4.75x2 AC	4.75x2 AC	4.75x2 AC	4.75x2 AC	
[6.2	Lift motor rating at S3 15%	kW	9.5 AC	9.5 AC	9.5 AC	9.5 AC	
, [6.3	Battery acc. to DIN 43 531/35/36 A,B,C, no		DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A	
Electric- engine	6.4	Battery voltage, nominal capacity K5	V/Ah	48/400	48/500	48/500	48/600	
اهنا	6.5	Battery weight	lbs	1545	2030	2030	2207	
e E		Battery dimensions	l/b/h(in)	32.7×20.6×24.7	32.7×24.8×24.7	32.7×24.8×24.7	32.7×29×24.7	
[6.6	Energy consumption acc. to VDI cycle	kWh/h	4.4	4.6	5.0	5.5	
		Min. battery weight	lbs	1346	1876	1876	1986	
		Max. battery weight	lbs	1655	2207	2207	2427	
	8.1	Type of drive control		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	
	9.1	Manufacturer		CURTIS	CURTIS	CURTIS	CURTIS	
	10.1	Operating pressure for attachments	bar	150	150	150	150	
ا مق	10.2	Oil volume for attachments	I/min	35	35	35	35	
를 끌	10.3	Hydraulic Tank - capacity (drain & refill)	gal	6.34	6.87	6.87	7.66	
	20.5							
Addition data	10.7 10.8	Sound level at the driver's ear according to EN / DIN 12 053 Towing coupling, type DIN	dB (A)	72 Φ24 Pin	73 Ф24 Pin	73 024 Pin	74 Φ24 Pin	

Ast

| Mark | Ma

X: Load distance B: Length of load or forks which is longer

 $Ast=a+Wa+\sqrt{(X+B)^2+(W/2)^2}$

Mast Specification:

AC6: means Curtis AC traveling system with AC Pump system, full-AC system

NO.	Туре	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range		Capacity			
						Without		Without backrest	Forward	Backward .	Load center@24Inch			
						backrest					3000lb	3200lb	3500lb	4000lb
			in	in	in	in	in	in	(°)	(°)	lbs	lbs	lbs	lbs
1	Duplex wide view mast	M300	118.1	78.5	155.3	140.4	5.7	5.7	5.5	6	3000	3200	3600	4000
2	Dup wii view	M330	129.9	84.4	167.1	152.2	5.7	5.7	5.5	6	3000	3200	3600	4000
1	ıst	U300	118.1	78.5	155.7	141.5	41.3	55.5	5.5	6	3000	3200	3600	4000
2	Duplex full-free lifting mas	U330	129.9	84.4	167.5	153.3	47.2	61.4	5.5	6	3000	3200	3600	4000
3	ų ų	U350	137.8	88.4	175.4	161.2	51.2	65.4	5.5	6	3000	3200	3600	4000
1		N450	177.2	81.7	214.8	200.6	44.5	58.7	3.5	5	2600	2800	3200	3600
2	lex iree mast	N480	189.0	85.6	226.6	212.4	48.4	62.6	3.5	5	2400	2600	3000	3400
3	Triplex full-free lifting mast	N500	196.9	88.2	234.4	220.3	51.0	65.2	3.5	5	2200	2400	2800	3200
4		N550	216.5	94.9	254.1	240.0	57.7	71.9	3.5	5	2000	2200	2500	3000

