

2.5t A series long wheelbase mast specification:

Type	Model	Lifting height	Lowered	Overall height		Free lifting height		Tilting range		Capacity (Mast vertical to ground)			
				With backrest	Without backrest	With backrest	Without backrest	FWD	BWD	Load center@500mm Single Tire	Load center@500mm Front Dual Tire	Load center@24in Single Tire	Load center@24in Front Dual Tire
				mm	mm	mm	mm	(°)	(°)	kg	kg	lbs	lbs
2-stage wide mast	M250	2500	1786	3656	3234	140	140	5	10	2500	2500	5000	5000
	M270	2700	1886	3756	3434	140	140	5	10	2500	2500	5000	5000
	M300	3000	2006	4056	3734	140	140	5	10	2500	2500	5000	5000
	M330	3300	2186	4356	4034	140	140	5	10	2500	2500	5000	5000
	M350	3500	2286	4556	4234	140	140	5	10	2500	2500	5000	5000
	M360	3600	2336	4656	4334	140	140	5	10	2500	2500	5000	5000
	M400	4000	2586	5056	4734	140	140	5	10	2500	2500	5000	5000
	M430	4300	2751	5356	5034	140	140	5	8	2500	2500	5000	5000
	M450	4500	2861	5556	5234	140	140	5	8	2300	2500	4800	5000
	U250	2500	1766	3556	3185	720	1061	5	10	2500	2500	5000	5000
2-stage full-free tilting mast	U270	2700	1866	3756	3385	820	1181	5	10	2500	2500	5000	5000
	U300	3000	1966	4056	3685	920	1281	5	10	2500	2500	5000	5000
	U330	3300	2116	4356	3985	1070	1441	5	10	2500	2500	5000	5000
	U360	3600	2266	4656	4285	1220	1581	5	10	2500	2500	5000	5000
	U400	4000	2516	5056	4885	1470	1841	5	10	2500	2500	5000	5000
3-stage full-free tilting mast	N430	4300	1976	5356	5019	930	1267	5	8	2300	2500	4800	5000
	N450	4500	2096	5656	5219	1050	1387	5	8	2200	2360	4400	4700
	N480	4800	2196	5856	5519	1150	1487	5	8	2100	2200	4200	4400
	N500	5000	2261	6056	5719	1216	1562	5	8	1900	2100	3800	4200
	N550	5500	2426	6556	6219	1380	1717	3	8	1400	1900	2800	3600
	N600	6000	2641	7056	6719	1595	1932	3	8	1000	1700	2000	3400
	N650	6500	2820	7556	7219	1774	2111	3	8	850	1500	1700	3000
	N650	6500	2820	7556	7219	1774	2111	3	8	850	1500	1700	3000

\* With sidehilt minus 150kg,with integrated sidehilt minus 100kg. \* With solid tyre,load capacity increase 80kg.

3.0-3.5t A series mast: ( 3.0t with pneumatic,3.5t with solid tyre)

Type	Model	Lifting height	Lowered overall height		Overall height				Free lifting height				Tilting range		Capacity (Mast vertical to ground)							
					With backrest		Without backrest		With backrest		Without backrest		FWD	BWD	Load center @500 mm				Load center @24 in			
			3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t			Single Tire	Front Dual Tire	Single Tire	Front Dual Tire	Single Tire	Front Dual Tire	Single Tire	Front Dual Tire
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg	lbs	lbs	lbs	lbs
2-stage wide view mast	M250	2500	1786	1936	3652	3652	3297	3394	145	145	145	145	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	M270	2700	1886	2036	3852	3852	3497	3664	145	145	145	145	5	10	3000	3600	3000	3600	6000	7000	6000	7000
	M300	3000	2036	2186	4152	4152	3797	3884	145	145	145	145	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	M330	3300	2186	2336	4452	4452	4097	4184	145	145	145	145	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	M350	3500	2286	2436	4652	4652	4297	4384	145	145	145	145	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	M360	3600	2336	2486	4752	4752	4397	4484	145	145	145	145	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	M400	4000	2586	2686	5152	5152	4797	4884	145	145	145	145	5	10	2850	3250	2900	3600	5700	6500	5800	7000
	M430	4300	2751	2836	5452	5452	5097	5184	145	145	145	145	5	8	2700	3000	2750	3400	5400	6000	5500	6800
	M450	4500	2861	2936	5652	5652	5297	5384	145	145	145	145	5	8	2550	2850	2800	3350	5100	5700	5100	6700
	M480	4800	3026	3086	5952	5952	5697	5684	145	145	145	145	5	8	2250	2450	2500	2950	4800	4900	6000	6900
2-stage full-free tilting mast	U250	2500	1826	1936	3652	3652	3247	3292	884	794	1089	1194	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	U270	2700	1926	2036	3852	3852	3447	3492	784	894	1189	1264	5	10	3000	3600	3000	3600	6000	7000	6000	7000
	U300	3000	2036	2186	4152	4152	3747	3792	884	1053	1299	1413	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	U330	3300	2186	2336	4452	4452	4047	4092	1044	1194	1448	1554	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	U360	3600	2345	2485	4752	4752	4347	4392	1203	1353	1608	1713	5	10	3000	3500	3000	3500	6000	7000	6000	7000
	U400	4000	2585	2705	5152	5152	4747	4792	1413	1563	1818	1923	5	10	2850	3250	2900	3500	5700	6500	5800	7000
3-stage full-free tilting mast	N430	4300	2041	2141	5452	5452	5083	5092	899	999	1286	1359	5	8	2550	2850	2750	3350	5100	5700	5600	6700
	N450	4500	2121	2221	5652	5652	5283	5292	979	1079	1348	1439	5	8	2400	2700	2700	3200	4800	5400	5400	6400
	N480	4800	2221	2321	5852	5852	5583	5592	1078	1178	1448	1539	5	8	2250	2450	2800	2950	4500	4900	5200	5800
	N500	5000	2287	2387	6152	6152	5783	5792	1145	1245	1614	1605	5	8	2100	2300	2500	2750	4200	4800	6000	6700
	N550	5500	2451	2551	6652	6652	6283	6292	1309	1409	1678	1769	3	8	1650	1800	2350	2800	3600	4700	5400	5700
	N600	6000	2617	2717	7152	7152	6783	6792	1475	1575	1844	1935	3	8	1200	1300	2050	2300	2400	2600	4100	4800
	N650	6500	2845	2945	7652	7652	7283	7292	1703	1804	2072	2164	3	8	900	1000	1850	1900	1800	2000	3700	3800
	N650	6500	2845	2945	7652	7652	7283	7292	1703	1804	2072	2164	3	8	900	1000	1850	1900	1800	2000	3700	3800

\* With sidehilt minus 200kg,with integrated sidehilt minus 100kg. \* For 3t truck, with solid tyre,load capacity increase 100kg.

## GLOBAL SALES NETWORK



CE CERTIFICATE



ISO14001

ISO14001: 2004



ISO9001

ISO9001: 2008

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A Series  
1.0/1.5/1.8/2.0/2.5/3.0/3.5t  
Electric Forklift Truck

HANGCHA GROUP CO., LTD.



**T**He 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.

#### OUTLINE

Eyeball attractive designed streamlined outline, small dimension, and metal material applied for exposed parts, all provide robust construction of A series.

#### COMFORTABLE

Thanks to the new designed ergonomically operator's cab, the operator can work in relax, low fatigue, and even during long shift.

Sinking type designed battery layout provides battery stability especially during turning.

Ergonomically designed small radius turning wheel, and 150mm adjustable distance of seat, both provide better operator's comfort of different operators.

Soft landing system is applied for A series. When the forks lows 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 view ability.

Big LED dashboard is easy to see and provides friendly human-computer interaction and with running hours, self diagnosis function and the battery power shown.

Low noise, energy saving and no exhaust emission, all meet environment friendly requirement.

#### STANDARD SPECIFICATIONS

- High efficiency AC driving motor
- Special for truck's lifting motor
- Multi-functions dashboard
- Full electronic controlled travelling, lifting and steering
- Front lighting system, turning indicator, LED combined three colors' rear lights
- Big dimension rubber pad
- Sheet metal stamping made front and rear bottom plate

- Sheet metal stamping made left and right cover and battery cover
- Standard battery
- Reversing beeper
- Full hydraulic steering
- Storage box
- Soft landing system
- Standard forks in red
- 3m duplex mast
- Tow coupling
- Center located rear view mirror

#### OPTIONS

- Side way battery change
- Big capacity Chinese made battery
- Cold store application
- High performance import battery
- Battery charger
- Rear lighting system
- Front dual tyre
- SE tyre
- Non-marking tyre
- Suspension seat with higher OHG

#### AC TECHNOLOGY

The AC technology offers numerous advantages to HANGCHAA series trucks.

Maintenance free driving motor is no need to replace the carbon brush, low service cost.

High efficiency AC system is not only with full protection functions but also with the self equipped temperature sensor, speed sensor, which provides better reliability and long working life time.

#### SAFETY SYSTEM

High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance and better match with the motor.

Secure stopping on ramp function is also provided thanks to MOSFET controller.

Motor brake is for regenerative braking during deceleration, direction changing, and downward slope. The regenerative braking is more energy saving and effectively.

#### EASY MAINTENANCE

Full opened battery cover is easy for battery service.

The controller is enclosed to avoid dust and water, and the cover is easy opened.

The applied world famous controllers, connectors, battery plug, emergency switch, and dashboard are to ensure the reliability of the performance and provide easy service.

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

There's overloading protection for electronics and hydraulic system.

The whole truck meets CE certificate.



- Left and right rear view mirror
- Reversing hand grip with horn button
- Wider fork carriage
- Wide or higher load backrest
- Other dimension forks
- Duplex mast with full free lift
- Triplex mast
- Integrated side shift
- Other attachments

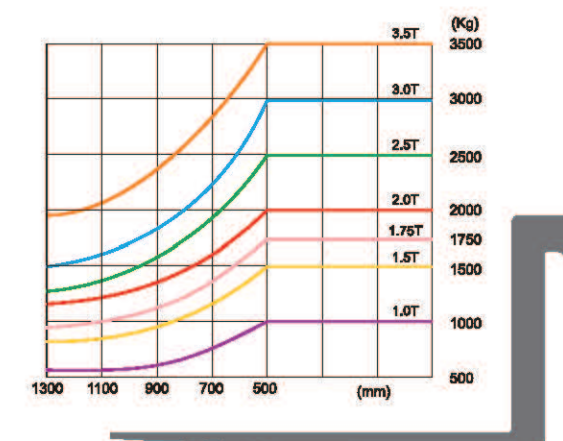




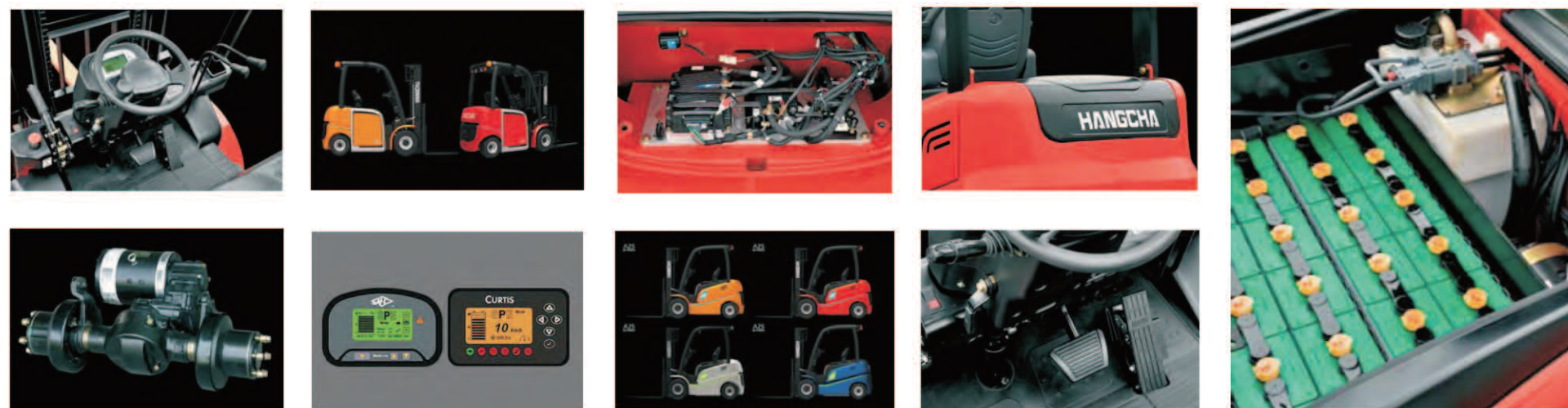
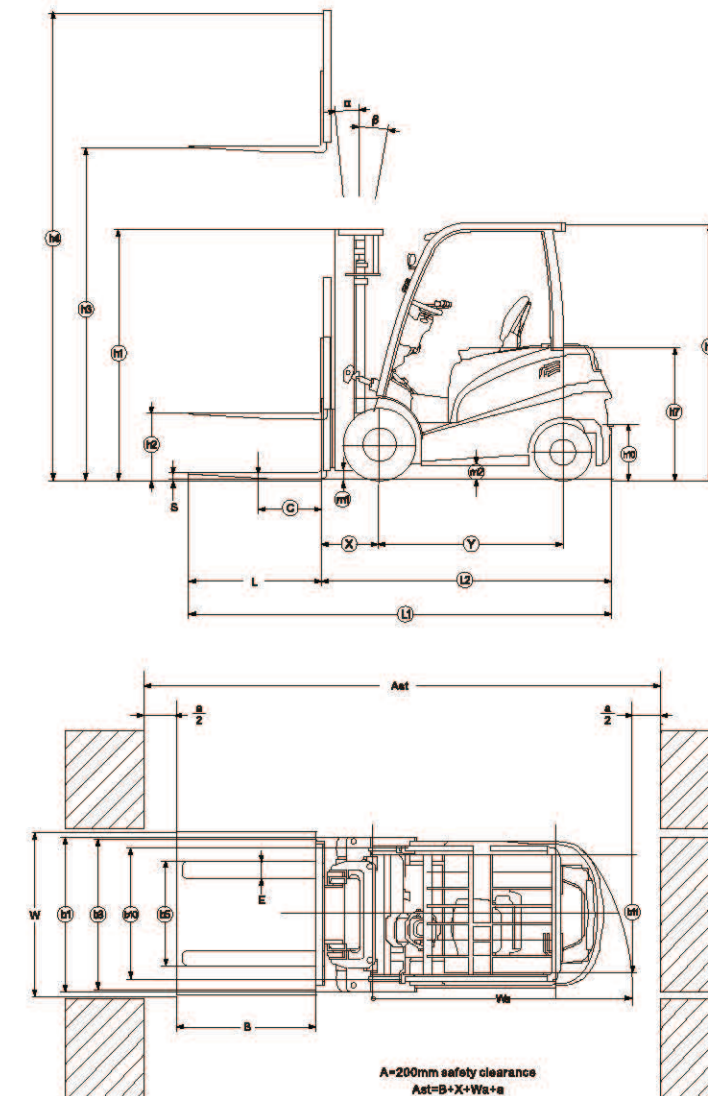
**New designed sideway battery changing is an option to meet different customer requirement. And which is very suitable for two or three shifts working.**

- Advance ergonomically design cab, better operator comfort
- Parking brake design meets ISO3691
- Customaries color
- Battery cover with auto lock spring for easy battery service and replacing
- Advanced Import AC controller (new series)
- Easy opened counter weight cover, to protect internal controller to avoid water and dust.
- Advanced transverse layout driving component.
- Sideway battery change option, easy to replacing battery
- Battery with lifting holes, no need to equip trolley, and battery can be put on ground to saving space and cost.
- Big LED dashboard, fault code shown in English
- Big dimension rubber pad

#### LOAD CHART



#### DIMENSIONS





A series 1.0-3.5t electric forklift specification:

Distinguishing mark	Manufacturer (abbreviation)	HANCOCHA																									
		CPD10-AC3	CPD15-AC3	CPD18-AC3	CPD20-AC3	CPD25-AC3	CPD25-ALC3	CPD30-AC3	CPD35-AC3	CPD10-AC4	CPD15-AC4	CPD18-AC4	CPD20-AC4	CPD25-AC4	CPD25-ALC4	CPD30-AC4	CPD35-AC4	CPD10-AD2	CPD15-AD2	CPD18-AD2	CPD20-AD2	CPD25-AD2	CPD25-ALD2	CPD30-AD2	CPD35-AD2		
1.2	Manufacturers type designation	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric		
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas																										
1.4	Operator type: hand, pedestrian, standing, seated, order-pickler	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated		
1.5	Load capacity/rated load	Q (kg)	1000	1500	1750	2000	2500	2500	3000	3500	1000	1500	1750	2000	2500	2500	3000	3500	1000	1500	1750	2000	2500	2500	3000	3500	
1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
1.8	Load distance, centre of drive axle to fork	x (mm)	406	406	406	455	455	455	475	475	406	406	406	455	455	455	475	475	406	406	406	455	455	455	475	475	
1.9	Wheelbase	y (mm)	1380	1380	1380	1485	1485	1625	1625	1625	1380	1380	1380	1485	1485	1625	1625	1380	1380	1380	1485	1485	1625	1625	1625	1625	
2.1	Service Weight	kg	2940	2940	3090	3700	4180	4580	5050	5450	2940	2940	3090	3700	4180	4580	5050	5450	2940	2940	3090	3700	4180	4580	5050	5450	
2.2	Axis loading, laden front/rear	kg	3900/540	3900/540	4300/590	5016/684	5920/760	6335/725	7160/890	8020/930	3900/540	3900/540	4300/590	5016/684	5920/760	6355/725	7160/890	8020/930	3900/540	3900/540	4300/590	5016/684	5920/760	6355/725	7160/890	8020/930	
2.3	Axis loading, unladen front/rear	kg	1353/1587	1353/1587	1440/1650	1628/2072	1780/2400	2130/2450	2424/2626	2450/3000	1353/1587	1353/1587	1440/1650	1628/2072	1780/2400	2130/2450	2424/2626	2450/3000	1353/1587	1353/1587	1440/1650	1628/2072	1780/2400	2130/2450	2424/2626	2450/3000	
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	super elastic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	super elastic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	super elastic	super elastic	
3.2	Tyre size, front		6.00 - 9	6.00 - 9	21x8 - 9	23x9-10	23x9-10	23x9-10	23x9-10	23x10-12	6.00-9	6.00-9	21x8-9	23x9-10	23x9-10	23x9-10	23x10-12	6.00 - 9	6.00 - 9	21x8 - 9	23x9-10	23x9-10	23x9-10	23x9-10	23x10-12		
3.3	Tyre size, rear		5.00 - 8	5.00 - 8	5.00 - 8	18x7 - 8	18x7 - 8	18x7 - 8	18x7 - 8	200/50-10	5.00-8	5.00-8	5.00-8	18x7 - 8	18x7 - 8	18x7 - 8	18x7 - 8	200/50-10	5.00 - 8	5.00 - 8	5.00 - 8	18x7 - 8	18x7 - 8	18x7 - 8	18x7 - 8	200/50-10	
3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	
3.6	Tread, front	b10(mm)	888	888	938	1058	1058	1058	1058	1068	888	888	938	1058	1058	1058	1068	888	888	938	1058	1058	1058	1058	1068	1068	
3.7	Tread, rear	b11(mm)	897.5	897.5	897.5	960	960	960	960	960	897.5	897.5	897.5	960	960	960	960	897.5	897.5	897.5	960	960	960	960	960	960	
4.1	Tilt of mast/fork carriage forward/backward	Grad	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	
4.2	Height, mast lowered	h1(mm)	1976	1976	1976	2006	2006	2006	2186	2186	1976	1976	1976	2006	2006	2006	2186	1976	1976	1976	2006	2006	2006	2186	2186	2186	
4.3	Free lift	h2(mm)	145	145	145	140	140	140	145	145	135	135	140	140	140	145	145	135	135	135	140	140	140	145	145	145	
4.5	Lift	h3(mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
4.6	Height, mast extended	h4(mm)	3955	3955	3955	4056	4056	4056	4152	4152	3955	3955	3955	4056	4056	4056	4152	3955	3955	3955	4056	4056	4056	4152	4152	4152	
4.7	Height of overhead guard STD.	h6(mm)	2050	2050	2050	2075	2075	2110	2110	2110	2050	2050	2050	2075	2075	2110	2110	2110	2050	2050	2050	2075	2075	2110	2110	2110	
4.8	Height of higher overhead guard OPT.	h6(mm)	2130	2130	2130	2155	2155	2190	2190	2190	2130	2130	2130	2155	2155	2190	2190	2190	2130	2130	2130	2155	2155	2190	2190	2190	
4.9	Seat height/stand height	h7(mm)	1045	1045	1045	1070	1070	1070	1070	1070	1045	1045	1045	1070	1070	1070	1070	1045	1045	1045	1070	1070	1070	1070	1070	1070	
4.12	Coupling height	h10(mm)	275	275	275	303	303	303	303	303	275	275	275	303	303	303	303	275	275	275	303	303	303	303	303	303	
4.19	Overall length	l1(mm)	3018	3018	3018	3412	3412	3552	3572	3652	3018	3018	3018	3412	3412	3552	3572	3652	3018	3018	3018	3412	3412	3552	3572	3652	
4.20	Length to face of forks	l2(mm)	2098	2098	2098	2342	2342	2482	2502	2582	2098	2098	2098	2342	2342	2482	2502	2582	2098	2098	2098	2342	2342	2482	2502	2582	
4.21	Overall width	b1(mm)	1120	1120	1138	1265	1265	1265	1265	1302	1120	1120	1138	1265	1265	1265	1302	1120	1120	1138	1265	1265	1265	1265	1302	1302	
4.22	Fork dimensions	s/e/f(mm)	35/100/920	35/100/920	35/100/920	40/122/1070	40/122/1070	40/122/1070	45/125/1070	50/125/1070	35/100/920	35/100/920	35/100/920	40/122/1070	40/122/1070	40/122/1070	45/125/1070	50/125/1070	35/100/920	35/100/920	35/100/920	40/122/1070	40/122/1070	40/122/1070	45/125/1070	50/125/1070	
4.23	Fork carriage DIN 15 173 — ISO 2328, class/type A,B		ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 3A	ISO2328 3A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 3A	ISO2328 3A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 3A	ISO2328 3A	ISO2328 3A	
4.24	Fork-carriage width	b3(mm)	1072	1072	1072	1118	1118	1118	1200	1200	1072	1072	1072	1118	1118	1118	1200	1200	1072	1072	1072	1118	1118	1118	1200	1200	
4.25	Distance between fork-arms	b5(mm)	240/1000	240/1000	240/1000	240/1038	240/1038	240/1038	290/1100	290/1100	240/1000	240/1000	240/1000	240/1038	240/1038	290/1100	290/1100	240/1000	240/1000	240/1000	240/1038	240/1038	240/1038	290/1100	290/1100	290/1100	
4.31	Ground clearance, laden, below mast	m1(mm)	100	100	100	112	112	112	115	115	100	100	100	112	112	115	115	100	100	100	112	112	112	115	115	115	
4.32	Ground clearance, centre of wheelbase	m2(mm)	110	110	110	120	120	125	125	125	110	110	110	120	120	125	125	110	110	110	120	120	125	125	125	125	
4.33	Aisle width for pallets 1000 x 1200 crossways	As1(mm)	3506	3506	3506	3745	3745	3885	3905	3985	3506	3506	3506	3745	3745	3885	3905	3985	3506	3506	3506	3745	3745	3885	3905	3985	
4.34	Aisle width for pallets 800 x 1200 crossways	As1(mm)	3706	3706	3706	3945	3945	4085	4105	4185	3706	3706	3706	3945	3945	4085	4105	4185	3706	3706	3706	3945	3945	4085	4105	4185	
4.35	Turning radius	Wa(mm)	1900	1900	1900	2090	2090	2230	2230	2310	1900	1900	1900	2090	2090	2230	2230	2310	1900	1900	1900	2090	2090	2230	2230	2310	
4.38	Internal turning radius	b13(mm)	620	620	680	730	730	730	730	730	620	620	680	730	730	730	730	620	620	680	730	730	730	730			