标准配置和选项 Standard and Optional Equipment

标准配置 Standard Equipment

→ 赫德载荷控制器(LLC)比例控制门架提升、下降的速度
→ 货叉软着陆功能：货叉着陆前自动减速(与赫德载荷控制器(LLC) 配合作用)
→ 电子伺服转向(赫德电子转向系统LES)
→ 赫德交流数字控制器(LAC)
→ 自动制动功能(赫德制动控制LBC)
→ 橡胶驱动轮
→ 带防护架的聚氨酯双承载轮
→ 聚氨酯双稳定轮
→ 货叉长度1150mm
→ 货叉外间距560mm
→ -10°C冷库保护
→ 电池电缆和插头

→ Proportional control of lifting and lowering motions by LLC
→ Soft landing by reducing fork carriage speed when lowering to floor (in conjunction with LLC)
→ Active electric steering (Linde Electrical Steering, LES)
→ Linde LAC digital controller
→ Active electronic braking (LBC)
→ Rubber drive wheel
→ Tandem polyurethane load wheels with string guard
→ Polyurethane twin swivel caster wheel
→ Fork length 1150mm
→ Fork spread 560mm
→ Operating environment to -10°C
→ Battery cable and plug

可选配置 Optional Equipment

→ 不同门架类型和提升高度可选(带或不带自由提升，提升高度1924-5316mm)
→ 多种货叉尺寸可选
→ 挡货架
→ 载荷小于300kg时的提升速度推进器
→ 国际标准货叉架及悬挂式货叉
→ 冷库保护装置-35°C
→ 可润滑式初始提升系统
→ 金属网格门架防护屏
→ 聚氨酯或槽纹式橡胶驱动轮
→ 侧面推出式电池更换方式
→ 双电池更换支架

→ Alternative mast types and lift heights (with or without free lift, lift height from 1924-5316mm)
→ Alternative fork sizes
→ Load backrest
→ Lift speed booster for loads up to 300kg
→ ISO fork carriages with hook-on forks
→ Cold store protection -35°C
→ Greasable initial lift system
→ Wire mesh mast shield
→ Polyurethane or grooved solid rubber drive wheel
→ Side roll-out battery change
→ Two-battery change stand

其它满足客户要求的可选配置
Other Options Available on Request

站驾式电动托盘堆垛叉车
L14AP, L16AP
Stand-on Electric Pallet Stackers 1400, 1600kg

1168

Linde Material Handling 赫德叉车

安全性 Safety

三套制动系统：松开行驶控制开关，叉车自动制动；舵柄在垂直极限位置实现电磁制动；按下反向行驶开关实现反向电流制动。电源隔离开关切断所有电路，启动电磁制动。
Three-way braking system: automatic braking by LBC on releasing travel control switch; Electromechanical braking when tiller is moved fully up; Electronic braking by reversing travel control switch. Emergency stop button interrupts all electric circuits and actuates electromechanical brake.

高性能 Performance

3kW提升电机结合2.3kW交流驱动电机使叉车最大可实现10km/h的行驶速度，确保了卓越的性能和高效性。优化的车身及门架设计保证较高的承载能力。赫德独有的OptiLift® 比例提升系统，精确控制门架提升、下降。800mm宽车身保证车体能够在狭窄的空间内使用。
3 kW lift motor combines with 2.3 kW AC traction motor giving a top speed of 10 km/h unloaded, ensuring a superior performance and optimum productivity. The advanced chassis design and mast construction results in market leading in residual capacity. The Linde OptiLift® control provides true proportional lifting and lowering. The 800 mm width of the chassis allows the stacker to work easily in narrow aisle.

舒适性 Comfort

根据人机工程原理设计的侧面护臂表面带有高密度的泡沫保护垫，以保证安全舒适。站板表面也配有柔软的减震垫以减少震动。
The ergonomic lateral side guards are covered with a high-density foam protection to provide safe and comfortable holding. The platform is fitted with a flexible anti-vibration carpet which dampens impacts.

可靠性 Reliability

站驾式电动托盘堆垛车经过一系列工艺测试保证了其坚实的可靠性，能够长期地在重负荷的工业环境中更加高效、安全地搬运货物。
These rugged trucks incorporate tried and tested technology and components to ensure consistent reliability. They have already proved their ability to deliver faster, safer load handing over an extended working life in the toughest industrial environments.

易维护 Service

多年来，赫德托盘堆垛车旨在降低维护成本，提高生产效率。所有部件触手可及，电子元件密封在铝盒中，使其免受灰尘、水气和路面颠簸影响，确保车辆稳定运行。
Linde Pallet Stackers are designed to reduce maintenance costs and deliver the highest levels of productivity over many years. Fast, easy access to all components, electronics sealed in aluminium housings isolating them from road shocks, dust and humidity all play a part in guaranteeing high availability.

特点 Features

主要特性 Main Features

→折叠式站板使工作效率提高50%
→精确的比例提升、下降控制功能由布置在舵柄头部的赫德载荷控制 (LLC) 独立完成
→依据人机工程学原理设计的舵柄对驾驶员的双手提供全面的保护
→新型赫德交流数字控制模块融精确、平稳和快速反应为一体
→电子转向功能只需要最小的转向力就可以轻松、方便的控制叉车
→低重心、四支点的设计方案，使叉车具有卓越的稳定性和较高的剩余承载能力
→车体宽度与托盘相同，避免搬运过程中车体与障碍物碰撞
→松开行驶控制按钮实现电磁制动功能(赫德制动控制 LBC)

→Productivity increased 50% by fold-down rider stand platform
→Precise proportional load lifting and lowering by Linde load Control(LLC) directly on tiller head
→Operator's hands safely protected by ergonomic Linde tiller design
→Combines precision, progressiveness and fast response thanks to the new LAC digital control
→Superior driving comfort with minimum effort due to electric steering
→Excellent stability due to the low centre of gravity and 4-point design for high residual capacities
→Chassis same width as pallet, avoids snagging on obstacles
→Automatic electronic braking on releasing travel control switch (Linde Brake control, LBC)

车体 Chassis

由高强度钢板制成的圆弧形车体保证在狭窄的空间内作业依然方便灵活。最优化的部件数量和优质的焊接使车体具有强度高、寿命长等特点，整车重心低，稳定性好。所有内部元件都布置在可方便拆卸的钢制罩板下面，触手可及，维护方便。

Convenient maneuvering in tight places is no problem with the rounded contours of the heavy gauge steel chassis. Optimized number of parts and long life. Low truck center of gravity adds to stability. All internal components and servicing points well accessible behind detachable steel hood.

站板平台 Rider stand platform

悬浮式的站板可以吸收振动，站板橡胶垫使叉车操作非常舒适。两侧的护臂与车体合为一体，为操作者提供全面保护。护臂可以方便地加装衬垫，并可轻松地锁定在选择的位置上以提供更安全的保护。

Soft mat platform for high operator comfort. Platform suspension absorbs vibration and shock.Side guard arms integral with truck contours afford high level of operator protection. Side arms are comfortably padded and lock at selected position for enhanced safety.

驱动系统 Drive

2.3kW大功率交流驱动电机可实现最高行驶速度10km/h。先进的赫德交流数字控制器(LAC)带有可编程的微处理器，叉车起步平稳，加速有力，在选定的速度上平稳行驶，并能准确地进行货物提升定位。其它优点：
→ 斜坡起步不下滑
→ 每次接通电源时，安全继电器都将进行电路自检
→ 电流限制器避免叉车超载，延长叉车使用寿命
→ 数字控制器的参数可以根据客户的实际应用工况进行设置

Fast travel at speeds up to 10km/h available with powerful 2.3kW traction AC motor designed for heavy duty. Advanced Linde LAC Digital Control (LAC) system contains a programmable microprocessor and controls the truck to give smooth, precise starting, powerful acceleration, accurate travel at selected speed and exact load positioning. Other benefits:
→ Special starting circuit prevents truck from rolling back when starting on up-gradients
→ Safety circuit cutout performs self-test every time power is turned on
→ Current limiter avoids overloading and lengthens truck life
→ LAC digitalcontrol parameters can be programmed for specific truck applications

赫德(中国)叉车有限公司
Linde (China) Forklift Truck Corp., Ltd.
400-878-1999
http://www.linde-china.com

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Linde Material Handling 赫德叉车

1168_L14AP/L16AP_D-01_201606

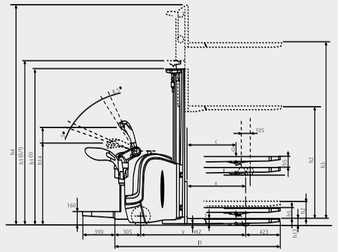
叉车技术参数 Technical Data

特性 Characteristics	1.1	制造厂商	Manufacturer		Linde	Linde
	1.2	型号	Model designation		L14AP	L16AP
	1.3	动力	Power unit		Battery 蓄电池	
	1.4	驾驶方式	Operation		步行式 / 站驾式 Pedestrian/Rider stand	
	1.5	额定承载能力	Load capacity	Q(kg)	1400	1600
	1.6	载荷中心距	Load center	c(mm)	600	600
	1.8	前悬距	Axle centre to fork face (fork raised/lowered)	x(mm)	727	727
	1.9	轴距	Wheelbase (fork raised/lowered)	y(mm)	1304	1304
重量 Weights	2.1	自重	Service weight (with battery item 6.5)	kg	1395 [1)]	1400 [1)]
	2.2	满载时的桥负荷，驱动侧 / 承重侧	Axle load with load, drive/load side	kg	-	-
	2.3	空载时的桥负荷，驱动侧 / 承重侧	Axle load without load drive/load side	kg	-	-
车轮 Wheels	3.1	轮胎，驱动侧 / 承重侧：橡胶实心胎，聚胺酯胎	Tyre,operator/load side: Rubber(R), polyurethane(PU)		R+PU/PU	
	3.2	轮胎尺寸，驱动侧	Tyre size, drive side	mm	Ø230x90	Ø230x90
	3.3	轮胎尺寸，承重侧	Tyre size, load side	mm	Ø85x85(85x60)	Ø85x85(85x60)
	3.4	稳定轮尺寸	Auxiliary wheel, size	mm	2x140x50	2x140x50
	3.5	车轮数量，驱动侧 / 承重侧 (x= 驱动轮)	Wheels number, drive/laod side (x=driven)		1x+1/4	
	3.6	轮距，驱动侧	Track width, drive side	mm	530	530
	3.7	轮距，承重侧	Track width, load side	mm	380	380
尺寸 Dimensions	4.2	门架回缩时高度	Height of mast, lowered	h1 mm	1990	1990
	4.3	自由提升高度	Free lift	h2 mm	150	150
	4.4	提升高度	Lift height	h3 mm	2924	2844
	4.5	作业时门架最大高度	Height of mast, extended	h4 mm	3460	3380
	4.6	初始提升高度	Initial lift	h5 mm	-	-
	4.9	作业时手柄高度，最小 / 最大	Height of tiller am in operation position, min./max.	h14(mm)	1095/1217	1095/1217
	4.15	下降后货叉距地高度	Fork height, lowered	h13(mm)	86	86
	4.19	总体长度 (站板收起 / 打开)	Overall length	l1(mm)	2089(2421) [4)]	2089(2421) [4)]
	4.20	车体长度 (站板收起 / 打开)	Length to fork face	l2(mm)	939(1272) [4)]	939(1272) [4)]
	4.21	车体宽度	Overall width	b1(mm)	800	800
	4.22	货叉尺寸	Fork dimensions	s/e/l(mm)	71/180/1150	71/180/1150
	4.24	货叉架宽度	Fork carriage width	mm	780	780
	4.25	过货叉距离	Fork spread	b5(mm)	560/680	560/680
	4.32	轴距中心离地间隙	Ground clearance, center of wheelbase min./max.	m2(mm)	30	30
	4.33	直角堆垛通道宽度，托盘 1000x1200 (1200 跨货叉放置)	Aisle width, 1000x1200mm pallet crosswise	Ast(mm)	2644/2924 [4)]	2644/2924 [4)]
	4.34	直角堆垛通道宽度，托盘 800x1200 (1200 沿货叉放置)	Aisle width, 800x1200mm pallet lengthwise	Ast(mm)	2604/2884 [4)]	2604/2884 [4)]
	4.35	转弯半径 (货叉提升)	Turning radius (fork raised)	Wa(mm)	1785(2065) [4)]	1785(2065) [4)]
性能 Performances	5.1	行驶速度，满 / 空载	Travel speed, with/without load	km/h	6/6(8/10) [2)4)]	6/6(8/10) [2) 4)]
	5.2	提升速度，满 / 空载	Lift speed, with/without load	m/s	0.16/0.25(0.40) [5)]	0.14/0.22(0.37) [5)]
	5.3	下降速度，满 / 空载	Lower speed, with/without load	m/s	0.45/0.45	0.40/0.35
	5.8	最大爬坡能力，满 / 空载	Maximum climbing ability, with/without load	%	11.0/24.0	10.0/24.0
	5.10	行车制动	Service brake		电磁制动 Electromechanical	
驱动 Drive	6.1	驱动电机功率 (60 分钟)	Drive motor output (60 min. rating)	kw	2.3	2.3
	6.2	提升电机功率，15% 功率	Lift motor output (15% rating)	kw	3	3
	6.3	蓄电池，根据 DIN 标准	Battery according to DIN 43531/35/36A, B, C, no		43535/B	
	6.4	蓄电池电压 / 额定容量 (5 小时放电量)	Battery voltage/rated capacity (5h)	V/Ah	24/270	24/270
	6.5	电池重量 (+5%)	Battery weight (5%)	kg	243	243
其他 Others	8.1	驱动控制方式	Type of Drive control		赫德数字控制系统 Linde Digital control (LDC)	
	8.4	驾驶员耳边噪音水平	Sound level at driver's ear	dB(A)	<72	

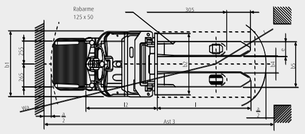
选用可选装备时，标准叉车的参数随之改变。
1) 包含 6.4/6.5 栏中蓄电池重量
2) (±5%)
3) 货叉及支腿各承载 1000kg, 总承载 2000kg
4) 站板收起 / 打开
5) 括号内数值适用于选配的提升速度推进器

Figures fpr standard version may vary when options equipment is fitted
1) Including battery weight stated in Line 6.4 /6.5
2) (±5%)
3) Load distribution e.g. 1000kg on the fork arms. Total load max.2000kg
4) With platform folded/lowered
5) Figures in parentheses for optional lift speed booster

载荷曲线图 Load Capacity Diagrams

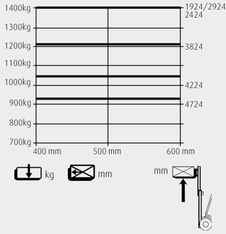


转弯半径 Ast=Wa+r+a
Tuining radius Ast=Wa+r+a

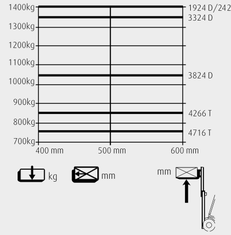


安全距离 a=200mm
safety distance a=200mm

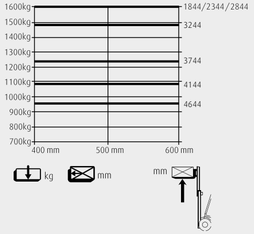
L14AP-560 标准门架
L14AP-560 S mast



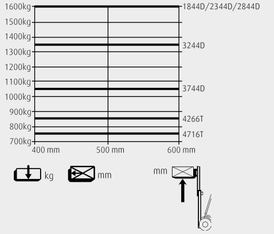
L14AP-560 二级/三级门架
L14AP-560 D/T mast



L16AP-560 标准门架
L16AP-560 S mast



L16AP-560 二级/三级门架
L16AP-560 D/T mast



门架参数表 Mast Datasheet (in: mm)

门架 Masts (in mm)		L14	1924S	2424S	2924S	3324S	3824S	4224S	4724S	1924D	2424D	2924D	3324D	3824D	4224D	4266T	4716T
门架提升高度	Lift	h_3	1924	2424	2924	3324	3824	4224	4724	1924	2424	2924	3324	3824	4224	4266	4716
货叉提升高度	Lift+fork height	h_3+h_{13}	2010	2510	3010	3410	3910	4310	4810	2010	2510	3010	3410	3910	4310	4352	4802
回收高度	Height, lowered	h_1	1490	1740	1990	2190	2440	2640	2890	1415	1665	1915	2115	2365	2565	1915	2065
作业最大高度	Height, extended	h_4	2460	2960	3460	3860	4360	4760	5260	2460	2960	3460	3860	4360	4760	4802	5252
自由提升高度	Free lift	h_2	150	150	150	150	150	150	150	862	1212	1462	1662	1912	2112	1379	1529

门架 Masts (in mm)		L16	1844S	2344S	2844S	3244S	3744S	4144S	4644S	1844D	2344D	2844D	3244D	3744D	4144D	4266T	4716T
门架提升高度	Lift	h_3	1844	2344	2844	3244	3744	4144	4644	1844	2344	2844	3244	3744	4144	4266	4716
货叉提升高度	Lift+fork height	h_3+h_{13}	1930	2430	2930	3330	3830	4230	4730	1930	2430	2930	3330	3830	4230	4352	4802
回收高度	Height, lowered	h_1	1490	1740	1990	2190	2440	2640	2890	1415	1665	1915	2115	2365	2565	1915	2065
作业最大高度	Height, extended	h_4	2380	2880	3380	3780	4280	4680	5180	2380	2880	3380	3780	4280	4680	4802	5252
自由提升高度	Free lift	h_2	150	150	150	150	150	150	150	879	1129	1379	1579	1829	2029	1379	1529

其他规格门架根据需求提供。 Other masts on request.