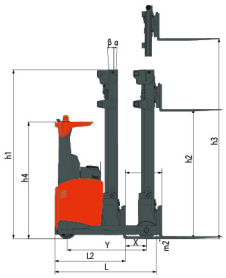
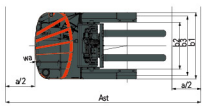
宽视野三节全自由门架 WIDE VIEW FULL FREE 3-STAGE MAST

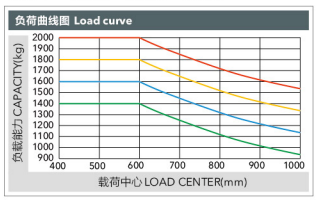
门架型号 Mast model	起升高度 h3 Lifting height (mm)			自由起升高度 h2 Free lifting height (mm)			门架落地高度 h1 Mast height, lowered (mm)			额定起重量① Load capacity (kg)				门架倾角(前后) Mast tilt forward backward α/β
	ETV114n/ ETV116n	ETV118n	ETV120n	ETV114n/ ETV116n	ETV118n	ETV120n	ETV114n/ ETV116n	ETV118n	ETV120n	ETV114n	ETV116n	ETV118n	ETV120n	
ZSM500	5000	5000	5000	1700	1700	1700	2200	2300	2300	1400	1600	1800	2000	1°/5°
ZSM530	5300	5300	5300	1800	1800	1800	2300	2400	2400	1400	1600	1800	2000	1°/5°
ZSM590	5900	5900	5900	2000	2000	2000	2500	2600	2600	1400	1560	1800	2000	1°/3°
ZSM620	6200	6200	6200	2100	2100	2100	2600	2700	2700	1400	1520	1800	2000	1°/3°
ZSM650	6500	6500	6500	2200	2200	2200	2700	2800	2800	1400	1480	1650	1900	0.5°/2°
ZSM680	6800	6800	6800	2300	2300	2300	2800	2900	2900	1400	1440	1650	1900	0.5°/2°
ZSM710	7100	7100	7100	2400	2400	2400	2900	3000	3000	1340	1400	1650	1900	0.5°/2°
ZSM770	7700	7700	7700	2600	2600	2600	3100	3200	3200	1100	1300	1550	1700	0.5°/1°
ZSM842	8420	8420	8420	2840	2840	2840	3340	3440	3440	990	1190	1450	1600	0.5°/1°
ZSM902	9020	9020	9020	3040	3040	3040	3540	3640	3640	750	900	1350	1500	0.5°/1°
ZSM911	-	-	9110	-	-	3070	-	-	3670	-	-	-	1480	2/5
ZSM962	-	-	9620	-	-	3240	-	-	3840	-	-	-	1350	2/5
ZSM995	-	-	9950	-	-	3350	-	-	3950	-	-	-	1330	2/5
ZSM1022	-	-	10220	-	-	3440	-	-	4040	-	-	-	1300	2/5
ZSM1052	-	-	10520	-	-	3540	-	-	4140	-	-	-	1280	2/5
ZSM1070	-	-	10700	-	-	3600	-	-	4200	-	-	-	1240	2/5
ZSM1088	-	-	10880	-	-	3660	-	-	4260	-	-	-	1220	2/5
ZSM1112	-	-	11120	-	-	3740	-	-	4340	-	-	-	1130	2/5
ZSM1151	-	-	11510	-	-	3870	-	-	4470	-	-	-	1000	2/5

注①：额定起重量根据蓄电池容量大小而定，请咨询销售或技术人员。
NOTE①:Detailed information about load capacity, please contact our salesmen or engineer.





ETV114 ETV116 ETV118 ETV120



注：竖轴表示承载量，横轴表示载荷中心。载荷中心是从货叉正面计算起，标准载荷的基点是指负荷边长为1000毫米的立方体中心位置。当门架前倾、使用非标准货叉或装载超过正常宽度的负荷时，将会使承载量减少。通过负荷曲线图，能及时地了解标准门架在各种载荷中心时的承载能力。

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. the standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

能量再生技术
Renewable energy technologies

应用交流控制能量再生技术，叉车更节能，蓄电池单作业循环时间最大延长15%

With the use of AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

↑15%
蓄电池单作业循环时间延长
THE PERFORMANCE OF BRTTERY INCRERSES

制造商和技术参数 Manufacturer's Data and Design Characteristics

	特性 Character						
1.01	制造厂商 Manufacturer			永恒力 Jungheinrich			
1.02	型号 Model			ETV			
1.03	配置号 Configuration number			114n	116n	118n	120n
1.04	额定承载能力 Load capacity	Q	kg	1400	1600	1800	2000
1.05	载荷中心距 load center distance	C	mm	600			
1.06	动力形式 Power mode			蓄电池 Battery			
1.07	驾驶方式 Driving mode			座驾式 Seated			
1.08	轴距 Wheel base	Y	mm	1410	1468	1560	1586
	轮胎 Tyre						
2.01	轮胎类型 Tyre type			聚氨酯 Polyurethane			
2.02	轮胎数量，驱动轮/承重轮（x=驱动轮） Wheels, number front/rear (x=driven wheels)			1x/2			
2.03	轮距（承载轮） Track width, rear	b3	mm	1136			
2.04	承载轮尺寸 Wheel size, rear		mm	ϕ285x100			
2.05	驱动轮尺寸 Wheel size, front		mm	ϕ343x114			
	尺寸 Size						
3.01	标准门架起升高度 Lift height	h3	mm	5000			
3.02	自由起升高度（不带挡货架） Free lift(without backrest)	h2	mm	1700			
3.03	门架落地高度 Mast height, lowered	h1	mm	2200	2200	2300	2300
3.04	货叉尺寸，厚度/宽度/长度 Fork size:thickness×width×length	s/e/l	mm	40x122x1150			
3.05	货叉调节宽度 Fork adjusting width		mm	335-709			
3.06	门架倾角（前/后） Mast tilt angle (front/rear)	α/β		1°/5°			
3.07	货叉侧移量 Fork sideshifting		mm	±70			
3.08	车体长度（不含货叉） Truck body length (fork excluded)	L	mm	1792	1842	1942	1942
3.09	车体宽度 Truck body width	b1	mm	1270	1270	1270	1270
3.10	支腿内宽 Distance between support arms	b2	mm	932	932	932	932
3.11	前移距离 Reach distance	l4	mm	550	600	670	670
3.12	护顶架高度 Height of overhead guard (cab)	h4	mm	2265	2265	2265	2265
3.13	最小离地间隙（门架处） Ground clearance, below mast	m2	mm	80	80	80	80
3.14	最小转弯半径 Turning radius	Wa	mm	1613	1705	1775	1775
3.15	货叉前端面至承载轮中心距 Load distance, centre of support arm wheel to face of forks	x	mm	345	395	465	465
3.16	直角堆垛宽度（托盘800x1200，沿货叉） Aisle width for pallets 800x1200 lengthways	Ast	mm	2692	2805	2812	2812
3.17	直角堆垛宽度（托盘1000x1200，跨货叉） Aisle width for pallets 1000x1200 crossways	Ast	mm	2650	2760	2780	2780
	性能 Performance						
4.01	行驶速度，满/空载 Travelling speed: with/without load		km/h	10/10	10/10	10/10	10/10
4.02	起升速度，满/空载 Lifting speed: with/without load		m/s	0.37/0.65	0.33/0.6	0.33/0.6	0.33/0.6
4.03	下降速度，满/空载 Lowering speed: with/without load		m/s	0.5/0.35	0.48/0.35	0.45/0.38	0.44/0.38
4.04	前移速度，满/空载 Reach speed, with/without load		m/s	0.2/0.2	0.2/0.2	0.2/0.2	0.2/0.2
4.05	最大爬坡能力，满/空载 Maximum climbing ability, with/without load		%	10/15	10/15	10/15	10/15
	重量 Weight						
5.01	整车自重②（含蓄电池） Total weight (with battery)		kg	2950	3070	3960	4030
5.02	空载桥负荷，驱动轮/承重轮（货叉后移） Axle load,fork retracted,without load,front/rear		kg	1770/1180	1842/1228	1932/1568	1984/1586
5.03	满载桥负荷，驱动轮/承重轮（货叉前移） Axle load,fork outreached,with load,front/rear		kg	522/3828	560/4110	1009/4291	958/4612
5.04	满载桥负荷，驱动轮/承重轮（货叉后移） Axle load,fork retracted,with load,front/rear		kg	1566/2784	1681/2989	1765/3535	1798/3772
	蓄电池 Battery						
6.01	蓄电池电压/额定容量（5小时放电量） Battery voltage/capacity K5		V/Ah	48/465		48/620	
6.02	蓄电池重量 Battery weight		kg	861		1054	
6.03	蓄电池箱体尺寸 Battery box dimension		mm	1220x280x784		1220x352x784	
	电机及控制 Motor and controller						
7.01	驱动电机功率 Drive motor power		kW	6.9			
7.02	起升电机功率 Lifting motor power		kW	10			
7.03	转向电机功率 Steering motor power		kW	0.9			
7.04	驱动控制方式 Type of driving control			MOSFET/AC			
7.05	起升控制方式 Type of Lifting control			MOSFET/AC			
7.06	转向控制方式 Type of Steering control			MOSFET/AC			
	制动方式及工作压力 Brake and operating pressure						
8.01	行车制动 Service brake			电磁制动 Electromagnetic brake			
8.02	属具工作压力 Operating pressure for attachments		Mpa	15			

注②：蓄电池具体品牌及其容量大小，请咨询销售或技术人员。 NOTE②: *Detailed information about battery, please contact our salesmen or engineer.

HELI

可靠的专用仪表将整车运行状态，故障检测等重要信息完整地显示出来，使操作者更直观、方便地了解车辆状态。

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.

标准配置 Standard configuration

AC行走电机	AC travelling motor
AC起升电机	AC lifting motor
AC转向电机	AC steering motor
电磁制动	Electromagnetic brake
5000mm三节全自由门架	5000mm three stage full free lift mast
整体式侧移器	Integral sideshifter
标准货叉	Standard fork
聚氨酯轮胎	Polyurethane tyre
LED液晶仪表	LED meter
电池电量显示	Residual time display with on-board battery
前工作灯	Front working light
单功能集成手柄	Solo-PILOT
龟速开关	Slow travel switch
钥匙开关	Key switch
弯道行驶减速控制	Curve control
180° 转向	180° steering mode
制动能量回收	Energy recovery during braking
门架倾斜	Mast tilt
球面后视镜	Rearview mirror

选用装置 Optional device

其他高度三节全自由门架	Three-stage full free lift mast(other lifting height)
其他长度货叉	Fork with other length
密码锁启动	Pin-code
冷库改装	Cold store
负载轮护罩	Load wheel cover
监控系统	Monitoring system
蓄电池侧拉	Battery side pull
行驶减速控制	Drive control
360° 转向	360° steering mode
货叉倾斜	Fork tilt
其他蓄电池	Other battery
集成手柄	Multi-PILOT

HELI 安徽合力股份有限公司 ANHUI HELI CO., LTD.

地 址：中国合肥经开区芳兴大道668号
电 话：(86 551)63639068,63639258,63639358
传 真：(86 551)63639966
网 址：http://www.helichina.com
服 务：400 160 0761

ADD:NO. 668 Fangxing Street, Economical & Development Zone, Hefei, P.R. China
TEL:(86 551)63639068,63639258,63639358
FAX:(86 551)63639966
WEBSITE:http://www.helichina.com
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HELI 中国合力 提升未来

始于 1958

ETV 114n-120n

座式前移式交流蓄电池叉车

AC ELECTRIC REACH TRUCK-SIT-DOWN TYPE

ETV114n-120n

座式前移式交流蓄电池叉车

AC ELECTRIC reach truck-sit-down type

整车优势 FEATURES OF THE COMPLETED TRUCK

高效的三相交流电机技术
More efficient with 3-phase AC technology

- 强大的加速性
- 变换行驶方向灵敏迅速、无迟滞
- 无碳刷的免维护电机寿命更长，维护费更低
- 当减速时能进行能量回充，因此操作时间更长

- Powerful acceleration
- Fast reversing without delay
- High availability through maintenance-freemotors without carbon brushes
- Longer operating times due to energy reclamation on reducing the travel speed

高性能的门架
High performance mast

- 在负载方向拥有绝佳的视野
- 整体式侧移
- 提升高度高而闭合门架高度低
- 高质量零部件保证了超长的使用寿命
- 在高处时,剩余载荷仍然很大
- 配备门架倾仰且最大提升高度可达9020mm

- Excellent visibility towards the load
- Integrated side shift
- Lowest closed mast height with high lift heights
- Extremely long service life due to high quality mast profiles
- High residual capacities up to high lift heights
- Lift heights up to 9020mm with mast tilt

卓越的整机性能
Excellent performance truck

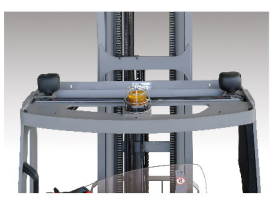
- 紧凑型车体设计提高驾驶的灵活性
- 弯道控制技术确保了高度的操作安全性

- Improved manouvrability through compact chassis design
- High operating safety with Curve Control

人体工学设计座舱
Ergonomic cab

- 座椅可调（座椅位置/靠背角度/体重）以适应不同的操作者
- 更多的储物空间
- 所有重要操作部件皆可直接控制
- 更多自由空间
- 三相交流转向控制（180° /360° 转向可选）
- 方向盘水平/垂直位置调节

- Comfortable seat with adjustment options(sitting position/backrest/boby weight) for every operator
- Various storage facilities
- The important operating functions are easily accessible without reaching round
- Generous space
- 3-phase AC steering (180°or as an option 360 °) with stress-free steering wheel position
- Horizontal/vertical steering wheel adjustment



分立式控制手柄
Effortless operation with SOLO-PILOT

- 所有的操作功能一目了然
- 增加的属具，如货叉调距（选配），也通过分立式手柄进行操作
- 灵敏的控制系统实现精确操作
- 手扶可调节使得操作更舒适

- All operating functions are in view
- Additional attachments , such as fork spreaders(optional) ,are also easily controlled with the SOLO-PILOT
- Precise operation through sensitive control of all functions
- Comfortable working position with adjustable armrest

清晰简单的操作显示器
Easily read operator display

- 行驶方向和驱动轮位置显示
- 180° /360° 转向模式显示
- 电量电瓶与剩余操作时间显示
- 三种行驶程序可调
- 累计工时和时钟显示
- 高度显示（选配）

- Travel direction display of important operating information
- 180°/360°steering mode
- Battery discharge display with residual running time
- Three adjustable travel programs to suit every requirement
- Operating hours and time
- Lift height(optional)