



# Mantall®

## 锂电专用车

NEW LITHIUM FORKLIFT  
PERFORMANCE PARAMETERS

1.5-3.5T

Mantall® 美通重工有限公司  
Mantall Heavy Industry Co., Ltd



# Mantall®

美通重工



**Mantall**

R&D Principles 研发原则

市场需求为核心，“三高一宽”为原则进行产品研发。  
Market demand is the core, and product research and development is carried out on the principle of 'three heights and one width'.



Shapes and Colors 造型与色彩

SHAPES AND COLORS

**Classic Red**

**Tech Grey**

**Ice Blue**

**1** 全新造型 实现家族化设计  
Brand-new shape to achieve family design

**2** 标准色沿用红色经典款 丰富选配色  
The standard color is the classic red with a variety of optional colors

**3** 提炼品牌元素 增加市场辨识度  
Refine brand elements and increase market recognition



- 整体铸造桥壳，强度高，半轴油封设计，减少渗漏

Integral cast axle housing, high strength, half-axle oil seal design to reduce leakage.

- 电动花纹轮胎，行驶阻力低，续航性提升

tread tires, low driving resistance and improved endurance.

- 液压油箱尺寸大，侧置在车架外侧，散热性高

The hydraulic oil tank is large in size and placed on the outside of the frame for high heat dissipation.

- 管路采用24°锥面密封，低渗漏

The pipeline adopts 24° cone seal, low leakage.

- 高置旋转式转向桥，横向稳定性高

Extended entry handle with universal height adaptation - accommodates operators of all statures.

- 铸造式桥体，圆锥滚子轴承，使用寿命长

Cast axle body, tapered roller bearings, long service life.

- 全系标配电池加热，寒冷天气无忧使用

Battery heating is standard on all models, worry-free use in cold weather.

- 整体式护顶架顶棚，强度高

Integral roof guard, high strength

- 机罩压在侧罩上，密封性提升

The hood is pressed against the side cover to improve the sealing

- 电池中置下沉布置，横向稳定性提升

The battery is placed in the middle and sinks down to improve lateral stability

- 泵电机上置在电池左侧，维护性好

Wide-view mast design ensures optimal visibility, and mast lowering function to reduce impact noise

- 控制器在配重上部，散热性好，上部隔水板提升防水性

The controller is on the top of the counterweight, which has good heat dissipation, the upper water barrier improves waterproofness

动力 Power

锂电池动力，性能分“双15”和“双18”两种。

Lithium battery power, performance is divided into "double 15" and "double 18".

电气系统 Electrical System

▶ 电池 Battery

标配REMA插件65A充电机，选配国标枪。

Standard: REMA plug 65A charger | Optional: GB/T-compliant charging gun.

3-3.5吨可选202-608Ah，综合工况使用时间5-15h；

Optional 3-3.5 tons with 202-608Ah battery, offering 5-15 hours of runtime under typical working conditions;

2-2.5吨可选150-460Ah；综合工况使用时间5-15h；

Optional 2-2.5 tons with 150-460Ah battery, offering 5-15 hours of runtime under typical working conditions;

1.5-1.8吨可选125-304Ah；综合工况使用时间6-13h。

Optional 1.5-1.8 tons with 125-304Ah battery, offering 6-13 hours of runtime under typical working conditions.

▶ 电机 Motor

AC交流电机，免维护

AC induction motor, maintenance-free

▶ 控制器 Controller

国产：嘉晨ACMLLL（批量在麒麟系列应用）

嘉晨ACMIICE款（外销标配）

Domestic Model: Jiachen ACMIII (Batch applied in HE CROSS series)

Jiachen ACMIII CE Version (Standard for Export Models)

进口：Inomtion/Curtis

Import Model: Inomtion/Curtis

▶ 充电器 Charger

| 和鼎<br>He Ding       | 充电时间/h<br>Charging time/h |      |      |
|---------------------|---------------------------|------|------|
|                     | 65A                       | 100A | 200A |
| 容量 (Ah)<br>Capacity |                           |      |      |
| 125                 | 1.9                       | 1.3  |      |
| 150                 | 2.3                       | 1.6  |      |
| 173                 | 2.6                       | 1.8  |      |
| 202                 | 3.0                       | 2.0  | 1.7  |
| 230                 | 3.4                       | 2.3  | 1.9  |
| 250                 | 3.7                       | 2.5  | 1.7  |
| 280                 | 4.1                       | 2.7  | 1.5  |
| 304                 | 4.4                       | 2.9  | 1.6  |
| 346                 | 5.0                       | 3.3  | 1.8  |
| 404                 | 5.8                       | 3.8  | 2.0  |
| 460                 | 6.6                       | 4.3  | 2.3  |
| 560                 | 8.0                       | 5.2  | 2.7  |
| 608                 | 8.6                       | 5.7  | 2.9  |

- 行驶三挡速度可调，满足不同工况作业需求

The driving speed is adjustable in three gears to meet different working conditions.

- 整车无动作30分钟，主动进入休眠状态，安全且节能

Enter power-saving sleep mode automatically when idle for 30 minutes.

- 液压操纵阀杆右置，操作省力，舒适性好

Right-positioned hydraulic lever: Smooth control, More comfort.

- 宽视野门架，驾驶员视野开阔，门架下降缓冲，减小冲击噪音

Wide-view mast design ensures optimal visibility, and mast lowering function to reduce impact noise.

- 上车把手加长设计，不挑驾驶员身高

Extended entry handle with universal height adaptation - accommodates operators of all statures.

- 倒车喇叭（选配），全车LED光源，半包围OPS座椅，驾驶更安全

Optional reverse alarm, full LED lighting, and semi-enclosed OPS seat for enhanced driving safety.

- 水杯盒、手机槽、USB充电，让你体验车生活

Cup holder, phone slot & USB charging — designed for your mobile lifestyle.

- 加大防滑上车踏板

Oversized non-slip boarding step.

- 智能保护：坡道缓慢溜坡，电气系统过热、短路、低电量保护，弯道限速（选配），未系安全带提醒（选配）

Smart Protection System: Anti-rollaway on ramp, Triple-electrical safeguards (overheat/short-circuit/low-voltage cutoff), Speed limiter in curves (optional), Seatbelt reminder (optional).



锂电专用车 1.5-3.5吨  
1.5-3.5ton New Lithium Forklift Performance Parameters

| Type  | 项目 Item   | 单位 unit  | 车型 Model                   |             |                            |             |                            |             |                            |             |                                   |             |                                   |             |           |
|---|---|--|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|-----------------------------------|-------------|-----------------------------------|-------------|-----------|
| 特性 Features   | 型号 Model  |  | CPD15                      | CPD18       | CPD15                      | CPD18       | CPD20                      | CPD25       | CPD20                      | CPD25       | CPD30                             | CPD35       | CPD30                             | CPD35       |           |
|   | 配置号 Mode  |  | 动力型POWERFUL                |             | 高性能FUNCTIONAL              |             | 动力型POWERFUL                |             | 高性能FUNCTIONAL              |             | 动力型POWERFUL                       |             | 高性能FUNCTIONAL                     |             |           |
|   | 额定起重量 Rated load  | kg   | 1500                       | 1800        | 1500                       | 1800        | 2000                       | 2500        | 2000                       | 2500        | 3000                              | 3500        | 3000                              | 3500        |           |
|   | 载荷中心距 Load center distance  | mm   | 500                        | 500         | 500                        | 500         | 500                        | 500         | 500                        | 500         | 500                               | 500         | 500                               | 500         |           |
|   | 动力方式 Power mode   |  | 锂电池 Lithium                | 锂电池 Lithium | 锂电池 Lithium                | 锂电池 Lithium | 锂电池 Lithium                | 锂电池 Lithium | 锂电池 Lithium                | 锂电池 Lithium | 锂电池 Lithium                       | 锂电池 Lithium | 锂电池 Lithium                       | 锂电池 Lithium |           |
|   | 驾驶方式 Driving mode   |  | 坐驾式Seat                    |             | 坐驾式Seat                    |             | 坐驾式Seat                    |             | 坐驾式Seat                    |             | 坐驾式Seat                           |             | 坐驾式Seat                           |             |           |
|   | 前悬距 Front overhang  | mm   | 407                        |             | 407                        |             | 464                        |             | 464                        |             | 469                               |             | 484                               |             |           |
|   | 轴距 Wheelbase  | mm   | 1475                       |             | 1475                       |             | 1660                       |             | 1660                       |             | 1750                              |             | 1750                              |             |           |
|   | 重量 Weight   | 总重 (含电池/不含电池) Service weight (including battery/excluding battery)   | kg                         | 2840/2610   | 2955/2780                  | 2850/2675   | 2965/2790                  | 3520/3345   | 3850/3675                  | 3530/3345   | 3860/3675                         | 4535/4325   | 4845/4615                         | 4550/4320   | 4860/4630 |
|   |   | 桥负载 (满载, 前/后) Axle load (full load, front/rear)  | kg                         | 3865/475    | 4185/570                   | 3870/480    | 4190/575                   | 4940/580    | 5715/635                   | 4945/585    | 5720/640                          | 6745/790    | 7555/790                          | 6740/810    | 7560/800  |
| 桥负载 (空载, 前/后) Axle load (no load, front/rear)                           |   | kg   | 1280/1560                  | 1280/1675   | 1285/1565                  | 1285/1680   | 1685/1835                  | 1715/2135   | 1690/1840                  | 1720/2140   | 2045/2490                         | 2015/2830   | 2050/2500                         | 2020/2840   |           |
| 轮胎 Type   | 轮胎类型 Tire type  |  | 充气胎 Pneumatic tire         |             | 充气胎 Pneumatic tire         |             | 充气胎 Pneumatic tire         |             | 充气胎 Pneumatic tire         |             | 前充气/后实心 Pneumatic tire/Solid tyre |             | 前充气/后实心 Pneumatic tire/Solid tyre |             |           |
|   | 轮胎尺寸 (前) Front tire size  |  | 6.50-10-10PR               |             | 6.50-10-10PR               |             | 7.00-12-14PR               |             | 7.00-12-14PR               |             | 28*9-15-14PR                      |             | 28*9-15-14PR                      |             |           |
|   | 轮胎尺寸 (后) Rear tire size   |  | 16*6-8-10PR                |             | 16*6-8-10PR                |             | 18*7-8-14PR                |             | 18*7-8-14PR                |             | 200/50-10                         |             | 200/50-10                         |             |           |
|   | 车轮数量, 前/后 (x=驱动轮) Number of wheels, front/rear (x=drive wheels)   | n  | 2/2                        |             | 2/2                        |             | 2/2                        |             | 2/2                        |             | 2/2                               |             | 2/2                               |             |           |
|   | 前轮距 Front wheel tread   | mm   | 934                        |             | 934                        |             | 970                        |             | 970                        |             | 1000                              |             | 1000                              |             |           |
| 尺寸 Dimensions   | 后轮距 Rear wheel tread  | mm   | 920                        |             | 920                        |             | 960                        |             | 960                        |             | 970                               |             | 970                               |             |           |
|   | 门架倾角 (前倾/后倾) Mast tilt angle(FR/RR)                               | °  | 6/8                        |             | 6/8                        |             | 6/10                       |             | 6/10                       |             | 6/10                              |             | 6/10                              |             |           |
|   | 门架全高 (货叉落地, 门架垂直) Mast lowered height                             | mm   | 2010                       |             | 2010                       |             | 2000                       |             | 2000                       |             | 2075                              |             | 2075                              |             |           |
|   | 自由起升高度 Free lift height   | mm   | 115                        |             | 115                        |             | 125                        |             | 125                        |             | 140                               |             | 140                               |             |           |
|   | 起升高度 (标准) Lift height   | mm   | 3000                       |             | 3000                       |             | 3000                       |             | 3000                       |             | 3000                              |             | 3000                              |             |           |
|   | 作业时最大高度(带挡货架) Mast height at maximum lift (with backrest)         | mm   | 3935                       |             | 3935                       |             | 4025                       |             | 4025                       |             | 4210                              |             | 4210                              |             |           |
|   | 护顶架高度 Height of overhead guard                                    | mm   | 2130                       |             | 2130                       |             | 2170                       |             | 2170                       |             | 2180                              |             | 2180                              |             |           |
|   | 座椅SIP点高度 (到地面) Seat SIP point height (to the ground)              | mm   | 1125                       |             | 1125                       |             | 1155                       |             | 1155                       |             | 1165                              |             | 1165                              |             |           |
|   | 牵引销位置高度 The height of the traction pin position                   | mm   | 250                        |             | 250                        |             | 300                        |             | 300                        |             | 310                               |             | 310                               |             |           |
|   | 全长 (带货叉) Overall length(with forks)                               | mm   | 3117                       |             | 3117                       |             | 3358                       |             | 3508                       |             | 3358                              |             | 3508                              |             |           |
|   | 全长 (不带货叉) Overall length(without forks)                           | mm   | 2197                       |             | 2197                       |             | 2438                       |             | 2438                       |             | 2555                              |             | 2590                              |             |           |
|   | 车体宽度/车轮宽度 Overall width   | mm   | 1120                       |             | 1120                       |             | 1180                       |             | 1180                       |             | 1260                              |             | 1260                              |             |           |
|   | 货叉架, ISO2328标准 Backrest, ISO2328 standard                         |  | 2A                         |             | 2A                         |             | 2A                         |             | 2A                         |             | 3A                                |             | 3A                                |             |           |
|   | 货叉尺寸: 长*宽*厚 Fork size:L*W*H                                       | mm   | 920*100*35                 |             | 920*100*35                 |             | 920*122*40                 |             | 1070*122*40                |             | 920*122*40                        |             | 1070*122*40                       |             |           |
|   | 货叉外侧间距, 最大/最小 Outer spacing of forks, maximum/minimum             | mm   | 970/200                    |             | 970/200                    |             | 1038/244                   |             | 1038/244                   |             | 1100/250                          |             | 1100/250                          |             |           |
|   | 离地间隙 (满载, 门架处) Ground clearance(Full load, at mast)               | mm   | 110                        |             | 110                        |             | 115                        |             | 115                        |             | 130                               |             | 130                               |             |           |
|   | 离地间隙 (满载, 轴距中心处) Ground clearance(Full load, at wheelbase Center) | mm   | 95                         |             | 95                         |             | 125                        |             | 125                        |             | 135                               |             | 135                               |             |           |
|   | 性能 Performance  | 直角堆垛通道宽度 托盘1000*1200 (1200跨货叉放置) Minimum right angle stacking aisle width, Pallet1000*1200 (1200 forks placed) | mm                         | 3665        |                            | 3665        |                            | 3750        |                            | 3750        |                                   | 3929        |                                   | 3959        |           |
|   |   | 直角堆垛通道宽度 托盘800*1200 (1200沿货叉放置) Minimum right angle stacking aisle width, Pallet800*1200 (1200 forks placed)   | mm                         | 3865        |                            | 3865        |                            | 3950        |                            | 3950        |                                   | 4129        |                                   | 4159        |           |
|   |   | 最小外侧转弯半径 Minimum turning radius  | mm                         | 2010        |                            | 2010        |                            | 2270*1.05   |                            | 2137        |                                   | 2260        |                                   | 2275        |           |
| 行驶速度 (满载/空载) Maximum travel speed(full load/no load)                    |   | km/h   | 15/15                      |             | 18/18                      |             | 15/15                      |             | 18/18                      |             | 15/15                             |             | 18/18                             |             |           |
| 起升速度 (满载/空载) Maximum lift speed(full load/no load)                      |   | mm/s   | 320/440                    | 300/440     | 400/520                    | 380/520     | 320/440                    | 300/440     | 420/530                    | 400/530     | 330/440                           | 310/450     | 400/500                           | 360/490     |           |
| 下降速度 (满载/空载) Lowering speed (full load/no load)                         |   | mm/s   | 400/400                    |             | 400/400                    |             | 400/400                    |             | 400/400                    |             | 400/400                           |             | 400/400                           |             |           |
| 最大牵引力 (满载/空载) Maximum drawbar pull(full load/no load)                   |   | KN   | 10.2/9.7                   | 10.2/9.8    | 12/10.7                    | 12/11       | 13.6/13                    | 14.5/13.5   | 14.5/14                    | 15.5/14.5   | 16.5/16                           | 17.5/17     | 19.5/17.5                         | 20/18       |           |
| 最大爬坡能力(满载/空载) Maximum gradeability(full load/no load)                   |   | %  | 17/27                      | 15/26       | 20/27                      | 18/26       | 17/26                      | 15/25       | 22/26                      | 20/25       | 17/26                             | 15/23       | 20/26                             | 18/25       |           |
| 加速时间 (10米) (满载/空载) Acceleration time (10 meters) (full load/empty load) |   | S  | 5.5/5.3                    | 5.6/5.3     | 5.5/5.1                    | 5.7/5.4     | 5.9/5                      | 6.1/5       | 5.9/5                      | 6.1/5       | 5.7/5.1                           | 6.2/5.2     | 5.7/5                             | 6.1/5.1     |           |
| 电池 Battery  |   | 锂电池电压/容量 Lithium battery voltage/capacity  | V/Ah                       | 80/125      |                            | 80/150      |                            | 80/150      |                            | 80/175      |                                   | 80/202      |                                   | 80/230      |           |
|   | 锂电池重量 Lithium battery weight                                      | kg   | 165                        |             | 175                        |             | 175                        |             | 185                        |             | 215                               |             | 230                               |             |           |
| 电机和控制器 Motor and controller   | 驱动电机功率 Drive motor power  | kW   | 11                         |             | 11                         |             | 14                         |             | 14                         |             | 17                                |             | 17                                |             |           |
|   | 起升电机功率 Lifting motor power  | kW   | 14                         |             | 14                         |             | 18                         |             | 18                         |             | 22                                |             | 22                                |             |           |
|   | 控制方式 Way of control   |  | AC                         |             | AC                         |             | AC                         |             | AC                         |             | AC                                |             | AC                                |             |           |
| 其它 others   | 行车制动/驻车制动 Driving brake/parking brake                             |  | 液力/机械 Hydraulic/mechanical |             | 液力/机械 Hydraulic/mechanical |             | 液力/机械 Hydraulic/mechanical |             | 液力/机械 Hydraulic/mechanical |             | 液力/机械 Hydraulic/mechanical        |             | 液力/机械 Hydraulic/mechanical        |             |           |
|   | 属具工作压力 Operating pressure   | Mpa  | 16                         |             | 16                         |             | 16                         |             | 16                         |             | 16                                |             | 16                                |             |           |

|                                | 项目 Items  | 标准配 Standard & Options |
|--------------------------------|---|------------------------|
| 基本项 Basic items                | 充气胎* Pneumatic tyre   | ●                      |
|                                | 实心胎 Solid tyre  | ○                      |
|                                | 单胎(前轮) Single tyre (front wheel)  | ●                      |
|                                | 双胎(前轮) Double front tyres (front wheels)                                | ○                      |
|                                | 两片阀 2th valve   | ●                      |
|                                | 三片或四片阀 3th & 4th valve  | ○                      |
|                                | 基本型3米起升高度门架 3m duplex mast  | ●                      |
|                                | 其它型及其它高度系列门架 Other types and different height masts                     | ○                      |
|                                | 标准系列货叉 Standard forks   | ●                      |
|                                | 非标系列货叉、属具 Non-standard forks and attachments                            | ○                      |
| 安全类 Security items             | 标准车身颜色 Standard colors  | ●                      |
|                                | 其它车身颜色(客户定制) other colors(customized)                                   | ○                      |
|                                | 转弯限速 Turning speed limit  | ○                      |
|                                | 倒车扶手带喇叭开关 Reversing handrail with horn switch                           | ○                      |
|                                | 超速5km/h报警 Alarm for speeding at 5km/h                                   | ○                      |
|                                | 超速8km/h报警 Alarm for speeding at 8km/h                                   | ○                      |
|                                | 超速10km/h报警 Alarm for speeding at 10km/h                                 | ○                      |
|                                | 紧急断电开关 Emergency power-off switch                                       | ●                      |
|                                | 全套ops功能 OPS functions   | ●                      |
|                                | 座椅安全带开关 Seat belt start switch (Seat belt fastening required to start.) | ○                      |
| 舒适类 Comfort items              | 多路阀过载 Multi-way valve overload protection                               | ●                      |
|                                | 干粉灭火器(2kg) Dry powder fire extinguisher (2kg)                           | ○                      |
|                                | 倒车蜂鸣器 Back-up buzzer  | ●                      |
|                                | 倒车中文语音喇叭 Reversing Chinese voice speaker                                | ○                      |
|                                | 配通用钥匙 Non-universal key   | ●                      |
|                                | 配通用钥匙 Universal key   | ○                      |
|                                | 电子起升上缓冲 Electronic lifting buffer                                       | ○                      |
|                                | 中央广角后视镜 Central wide-angle rearview mirror                              | ●                      |
|                                | 两侧后视镜+中央广角后视镜 Side mirrors + central wide-angle rearview mirror         | ○                      |
|                                | 半包围座椅 Half-enclosed seat  | ●                      |
| 驾驶室及空调 Cab and air conditioner | 全悬浮座椅 Suspension seat   | ○                      |
|                                | USB接口(5V/1A) USB port(5V/1A)  | ●                      |
|                                | 方向盘启动转向 Rotable steering wheel in place                                 | ○                      |
|                                | 同步转向 Synchronous steering   | ○                      |
|                                | 方向盘带手柄球 Steering wheel with handle ball                                 | ●                      |
|                                | 电风扇 Fan   | ○                      |
|                                | 贴片驾驶室(含风扇+雨刮器) Cab (including fan + wiper)                              | ○                      |
|                                | 暖风机 heater  | ○                      |
|                                | 单冷空调 Cooling air conditioner  | ○                      |
|                                | 暖风机+单冷空调 heater + Cooling air conditioner                               | ○                      |
| 非标护顶架 Overhead guard           | 前挡风玻璃(含雨刮器) Front windshield (with wiper)                               | ○                      |
|                                | 后挡风玻璃 Rear windshield   | ○                      |
|                                | 防雨顶棚 Rainproof roof   | ○                      |
|                                | 不同高度护顶架 Overhead guards of different heights                            | ○                      |
|                                | 护顶架带防护网 Overhead guards with protective cover                           | ○                      |
| 灯光类 Lighting items             | 车后方LED后工作灯 Rear LED light   | ○                      |
|                                | 车前方LED红/蓝光灯 Forward LED red/blue light                                  | ○                      |
|                                | 车后方LED红/蓝光灯 Rear LED red/blue light                                     | ○                      |
|                                | 左右后三面红/蓝光灯 Red/blue light on the left, right and back three sides       | ○                      |
|                                | LED闪烁式警示灯 LED flashing warning light                                    | ●                      |
|                                | LED旋转警示灯 LED rotating warning light                                     | ○                      |
| 其它 others                      | LED旋转蜂鸣警示灯 LED rotating buzzer warning light                            | ○                      |
|                                | REMA320充电接口 REMA320 charging port                                       | ●                      |
|                                | 国标充电枪 National standard charging gun                                    | ○                      |
|                                | 车载充电机 board charger   | ○                      |

注: ●标配;○选配;部分非标选项需要定制,选购前请咨询当地销售人员。  
 ●Standard; ○Optional; Some non-standard options need to be customized. Please consult the local salesperson before purchasing.

\*3-3.5吨后轮标配实心胎Standard solid tyres for 3-3.5ton's rear wheel