

AIRPORT EQUIPMENT SERVICES PTE. LTD.

41 Kallang Pudding Road, #03-10 Golden Wheel Building, Singapore 349316 Phone: (65) 65421160 Fax: (65) 65421160 Email: aessg@singnet.com.sg Website: www.aessg.com

(Business Registration No: 199400661M)



新能源牵引车 New Energy Tractor

TB 系列 新能源牵引车采用磷酸铁锂电池作为动力源,其结构形式为:前桥纵置摆臂式独立悬架,采用螺旋弹簧加筒式液压减振器组成的阻尼减振系统;驱动桥采用纵置板簧式悬架,多片式钢板弹簧加液压筒式减振器减振;制动系统为真空助力、前鼓后湿式四轮双回路液压行车制动,机械式驻车制动;转向系统为液压助力转向,由转向油泵驱动液压油作用于循环球式动力转向器,辅助转向。具有性能卓越、造型美观、驾乘舒适、无污染、低噪音、可靠性高等优点,能广泛运用于机场、港口、车站、库房等场所的牵引作业。

TB25L new energy tractor is equipped with Lithium iron phosphate battery by a vertical swing arm suspension system for the front axel and the shock absorber damping system with spiral spring and hydraulic cylinder type shock absorption. The driving axel adopts the vertical plate spring suspension system and multi-plate spring with hydraulic cylinder type shock absorbing system. The braking system adopts vacuum power assisted, four-wheel double circuit hydraulic service braking and mechanical parking braking. The steering system is a hydraulic power steering system, hydraulic oil is driven by the steering oil pump to act on the circulating ball power steering gear. The tractor is widely used in airport, shipyard, railway station, warehouse and other location for its excellent performance, beautiful outlook, convenient driving experience, low noise, high reliability, and no revolution.

主要特点 Main features

- ◆前桥采用独立悬架 具有较小的转弯 半径;
- ◆液压助力循环球式转向,回正良好, 操作轻便灵活;
- ◆前鼓后湿式、液压双回路四轮制动, 安全可靠;
- ◆瑞典进口 Inmotion 电控系统,精准 高效,具有故障自我诊断功能;
- ◆意大利进口 PMP 驱动桥, 具有高承载, 大扭矩的特点;
- ◆一体化易观察组合仪表 ,合理布置的 操作空间 ;
- ◆LED 大灯,让操作区域更加明亮

- ◆Independent suspension at front axle with small turning radius.
- ◆The hydraulic power circulation ball steering system providing a easy and flexible operation.
- ◆ Vacuum booster hydraulic dual re-circulation four wheel braking , safe and reliable.
- ◆ The precise Inmotion control system imported from Sweden has a self diagnosis function.
- ◆ Italian PMP drive axle has the characteristics of high load and large torque
- ◆Integrated instrument cluster, reasonable operation space.
- ◆LED headlights make the operation area brighter.

主要配置 Main configuration



- ◆CAN 通讯大屏幕 LED 仪表,显示信息量大,具有良好的电磁兼容及防水防尘特性;
- ◆ CAN, LED Meter, Integrated display, EMC and Water-dust prevention.



- ◆驱动桥和驱动电机集成为一体, 支持车辆紧凑的动力布局,具有高 承载,大扭矩的特点;
- ◆ The drive axle and reducer are integrated to support the compact power layout of the vehicle.



- ◆磷酸铁锂电池,具有效率高、寿命长、高安全、无污染等特点;
- ◆ The lithium iron phosphate battery has the characteristics of high efficiency, long life, high safety and no pollution



- ◆Inmotion电控系统能实现电机参数的自动匹配,通过配套 CAN 及无线通信的车载仪表可进行远程控制;
- ◆ The system can realize the automatic matching of motor parameters, and can be controlled remotely by CAN and wireless communication.



- ◆汽车专用手排挡,荧光显示 档位,带锁定功能,防误操作;
- Vehicle transmission,

fluorescent display, lock-out function for mistake operation.



- ◆牵引车左侧后方配备微动开 关,可在连接、解除牵引销作 业时进行微动操作;
- ◆ The rear left side of the tractor is equipped with a microswitch, which can operate when connecting and releasing the traction pin

样本中涉及的图片及数据仅供参考,如有变更,恕不另行通知。

Pictures for reference only.

·主要技术参数 Technical parameter

型号	特性	Characteristic				
自重	型号	Model		TB20L	TB25L	TB30L
尺寸参数 Dimension parameter 总长 Overall length mm 3170 总宽 Overall width mm 1440 总高 Overall height mm 1450 轴距 Wheelbase mm 1600 前轮距 Front wheel tread mm 1230 后轮距 Rear wheel tread mm 1200 牵引栓高度 Towing coupler height mm 305/405 最小离地间隙 Ground clearance mm 150 最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter 行驶速度 (满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 M	额定牵引重量	Rated traction	kg	20000	25000	30000
总长 Overall length mm 3170 总宽 Overall width mm 1440 总高 Overall height mm 1450 轴距 Wheelbase mm 1600 前轮距 Front wheel tread mm 1230 后轮距 Rear wheel tread mm 1200 牵引栓高度 Towing coupler height mm 305/405 最小离地间隙 Ground clearance mm 150 最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter 行驶速度(满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定担矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade 拉刺器 Controller 工作电压 Working voltage V 80	自重	Service weight	kg	3550	3700	3850
总宽 Overall width mm 1440 总高 Overall height mm 1450 轴距 Wheelbase mm 1600 前轮距 Front wheel tread mm 1230 后轮距 Rear wheel tread mm 1200 牵引栓高度 Towing coupler height mm 305/405 最小离地间隙 Ground clearance mm 150 最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter 行驶速度(满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定抽矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade 控制器 Controller 工作电压 Working voltage V 80	尺寸参数	Dimension parameter				
总高	总长	Overall length	mm		3170	
### ### ### #########################	总宽	Overall width	mm		1440	
Front wheel tread	总高	Overall height	mm		1450	
后轮距 Rear wheel tread mm 1200 牵引柱高度 Towing coupler height mm 305/405 最小离地间隙 Ground clearance mm 150 最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter	轴距	Wheelbase	mm		1600	
牵引栓高度 Towing coupler height mm 305/405 最小离地间隙 Ground clearance mm 150 最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter 行驶速度 (满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定担矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电压 Rated current A 408 绝缘等级 Insulation grade H 在的 Controller V 80	前轮距	Front wheel tread	mm		1230	
最小离地间隙 Ground clearance mm 150 最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter 行驶速度(满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续获业星程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定扭矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电压 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller 工作电压 Working voltage V 80	后轮距	Rear wheel tread	mm		1200	
最小转弯半径 Turning radius mm 2950 性能参数 Performance parameter 行驶速度(满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定扭矩 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade Tre电压 Working voltage V 80	牵引栓高度	Towing coupler height	mm		305/405	
性能参数 Performance parameter 行驶速度(满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续映里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定扭矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller 工作电压 Working voltage V 80	最小离地间隙	Ground clearance	mm		150	
行驶速度(满载/空载) Speed(loaded/unloaded) km/h 27/12 27/11 27/10 前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定扭矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H	最小转弯半径	Turning radius	mm		2950	
前载荷 Frond axle load kg 1450 1430 1400 后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定租矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller 工作电压 Working voltage V 80	性能参数	Performance parameter				
后载荷 Rear axle load kg 2100 2270 2450 最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定扭矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller T工作电压 Working voltage V 80	行驶速度(满载/空载)	Speed(loaded/unloaded)	km/h	27/12	27/11	27/10
最大牵引力 Max drawbar pull kN 23 25 27 续驶里程 Mileage km 220 215 210 电动机 Motor 额定功率 Rated output kW 28.7 额定扭矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller 工作电压 Working voltage V 80	前载荷	Frond axle load	kg	1450	1430	1400
续驶里程Mileagekm220215210电动机Motor额定功率Rated outputkW28.7额定扭矩Rated torqueN.m112额定转速Rated speedr.p.m2420额定电压Rated voltageV50额定电流Rated currentA408绝缘等级Insulation gradeH控制器Controller工作电压Working voltageV80	后载荷	Rear axle load	kg	2100	2270	2450
电动机Motor额定功率Rated outputkW28.7额定扭矩Rated torqueN.m112额定转速Rated speedr.p.m2420额定电压Rated voltageV50额定电流Rated currentA408绝缘等级Insulation gradeH控制器Controller工作电压Working voltageV80	最大牵引力	Max drawbar pull	kN	23	25	27
额定功率Rated outputkW28.7额定扭矩Rated torqueN.m112额定转速Rated speedr.p.m2420额定电压Rated voltageV50额定电流Rated currentA408绝缘等级Insulation gradeH控制器Controller工作电压Working voltageV80	续驶里程	Mileage	km	220	215	210
额定扭矩 Rated torque N.m 112 额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller 工作电压 Working voltage V 80	电动机	Motor				
额定转速 Rated speed r.p.m 2420 额定电压 Rated voltage V 50 额定电流 Rated current A 408 绝缘等级 Insulation grade H 左制器 Controller 工作电压 Working voltage V 80	额定功率	Rated output	kW		28.7	
额定电压Rated voltageV50额定电流Rated currentA408绝缘等级Insulation gradeH控制器Controller工作电压Working voltageV80	额定扭矩	Rated torque	N.m		112	
额定电流 Rated current A 408 绝缘等级 Insulation grade H 控制器 Controller 工作电压 Working voltage V 80	额定转速	Rated speed	r.p.m		2420	
绝缘等级Insulation gradeH控制器Controller工作电压Working voltageV80	额定电压	Rated voltage	V		50	
控制器Controller工作电压Working voltageV80	额定电流	Rated current	Α		408	
工作电压 Working voltage V 80	绝缘等级	Insulation grade			Н	
	控制器	Controller				
最大工作电流 Max working current A 550	工作电压	Working voltage	V		80	
	最大工作电流	Max working current	Α		550	
电池电压/电量 Battery voltage/capacity V/Ah 80/831	电池电压/电量	Battery voltage/capacity	V/Ah		80/831	

车辆外形图 Vehicle dimensions



