



北圭汽车

CHINA VEHICLE INDUSTRY

江苏北圭汽车科技有限公司

China Vehicle Industry Co.,Ltd

Subdivision

/Leading/Specialization

/concentration

江苏北圭汽车科技有限公司

CHINA VEHICLE INDUSTRY CO.,LTD

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2023年01月01日

2023

Engineering The Impossible

Powering Your Future

Focus on One-Stop Service for Full Spectrum of Vehicles

Committed to Electrification Platform & New Energy R&D

Contribute to Sustainable Energy

致力于一站式解决新能源平台方案

北 佳 汽 车

CHINA VEHICLE INDUSTRY



CHINA VEHICLE INDUSTRY

Powering Your Future

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PART 01 Company Profile

公司简介

One-Stop Service for Full
Spectrum of Vehicles

Electrification Platform & New
Energy R &D

Sustainable Energy



北汽汽车

CHINA VEHICLE INDUSTRY



Company Profile

20+ Years Experience

50+ Famous Customers

10+ Countries

CHINA VEHICLE INDUSTRY CO., LTD. Founded in JiangSu Province, China, was initiated and established by the Chinese Academy of Engineering in conjunction with advantageous R&D resources of First Tier universities of China and Leading with iconic and representative project for national science and technology system reform and innovation, a National High-Tech Enterprise driven by technological innovation, specializing in precision and newness.

CHINA VEHICLE INDUSTRY
Powering Your Future

01 Company Profile

Company Overview



CHINA VEHICLE INDUSTRY

Powering Your Future

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The Enterprise has the capability of Supplying the One-Stop Service including: Manufacturer Factory Building, Production Line Established, KD Parts Supplied and Electrification Platform of core components such as electric control system and electric drive system, which can provide efficient electrification solutions for various application scenarios to guarantee the great performance of the EV.





CHINA VEHICLE INDUSTRY

Powering Your Future

PART 02

One-Stop Service Introduction 一站式服务介绍

Construction Suggestions

项目规划建议

Automatic Equipment

自动化生产设备

KD Parts Supply

KD部件供应

EV Solutions

纯电解决方案

Oil to Electric

油改电





Vehicle Manufacturer Factory (Providing a Complete Solution)

Factory Building



Plant Planning

Tailor-Made detailed factory layout based on the real production requirement and Local Government Policy

工厂厂房介绍

3D Simulation Design

Simulate the actual factory area, so that customers can experience the real factory in advance

3D方案介绍

Exporting & Construction

Supply the High quality Steel Structure with Lowest Price and Assist to Build the Factory

出口运输及建设

工厂厂房介绍

Vehicle Production Line (Tailor-Made Vehicle Production Solution)

Production Line



Customized Design Solution

Design the whole Production Line and Associated Equipment based on the Produced Quantity and Vehicle Type.

客户非标定制方案

Installation & Debugging

Install and debugging the Production line & inspection line to proper condition

安装调试

Training & After-Sale

Traning the client to operate the related equipments in order to guarantee the smooth production .

培训及售后服务

汽车生产线

KD & Technique Support (Assist to Realizing the Local Manufacturing)

KD & Technique Support



KD Parts

Vechile's parts supplied to assembly in Client's Factory in order to save the cost and localizing the production

KD部件供应

Parts Localized

Auto Parts manufactured locally in order to meet the policy of Local Government

本土化供应

Techniue Support

Assist to programming the vehicle's system and guarantee the performance

技术支持

KD部件和技术支持

Sustainable Power Supply Solution Provider

Sustainable Power Solution



Retrofitting

Assist to Repurposing the traditional vehicle to Electric vehicle in order to meet the clean energy development

技术改造升级

Vehicle Electrification

Assist the local vehicle industry getting into sustainable mode and realize electrification

电动整车服务

Clean Energy Solution

Solar Panel/ Energy Storage/ Charging Solution planned and assit the clients to save cost

新能源解决方案

Factory Building



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PART 03

Factory Building 厂房建设

3D Presentation

3D设计方案

Customized CAD Drawing

全套设计图纸

Tips for Pre-Consideration

Ceiling Reference Drawing of Showroom

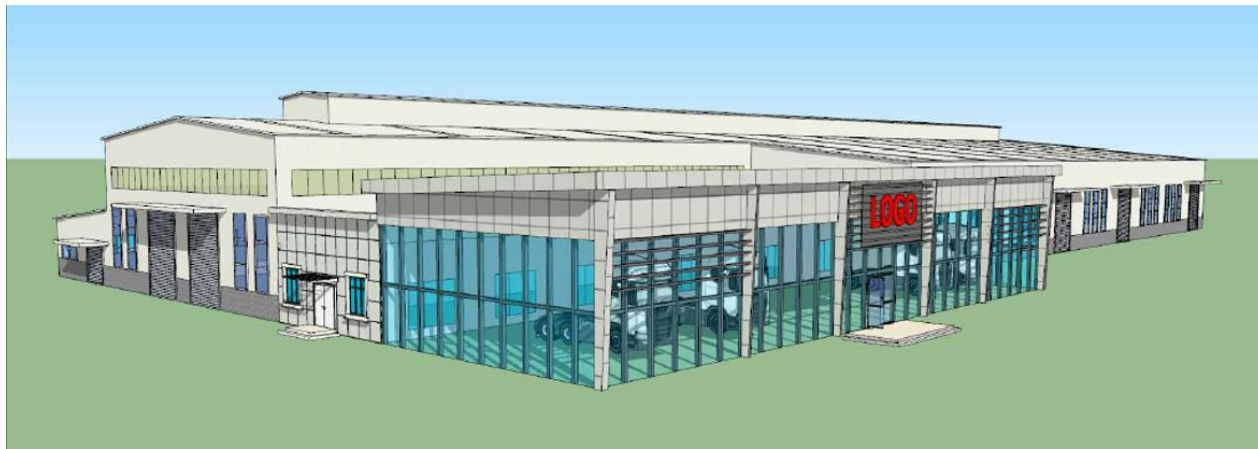
结合汽车产线的建议，室内装修及4S销售店的设计

On-Site Installation

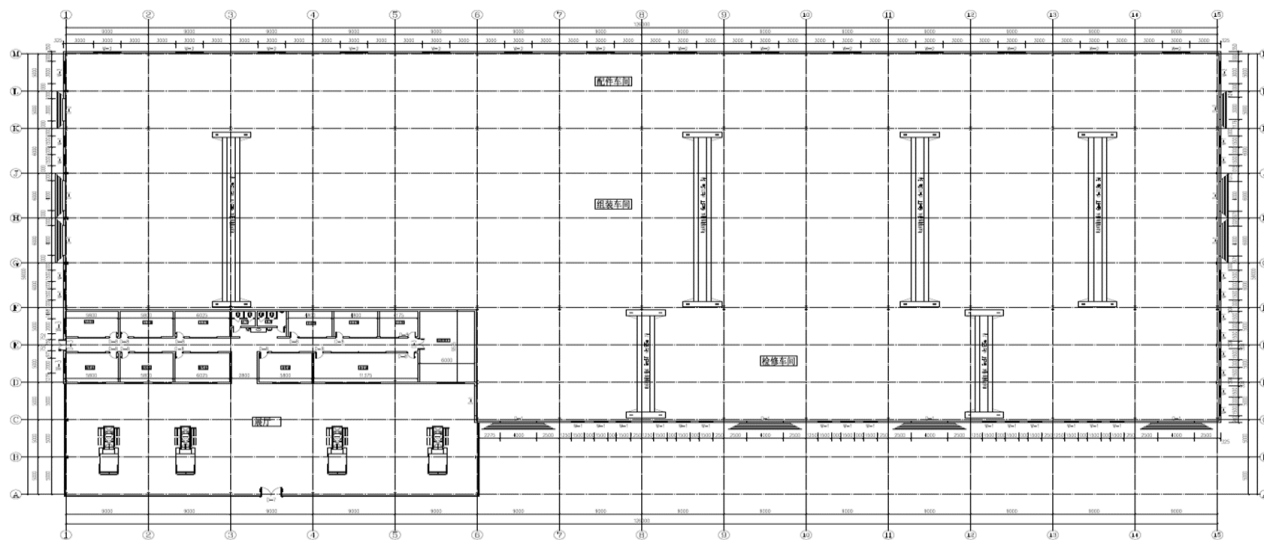
现场安装服务



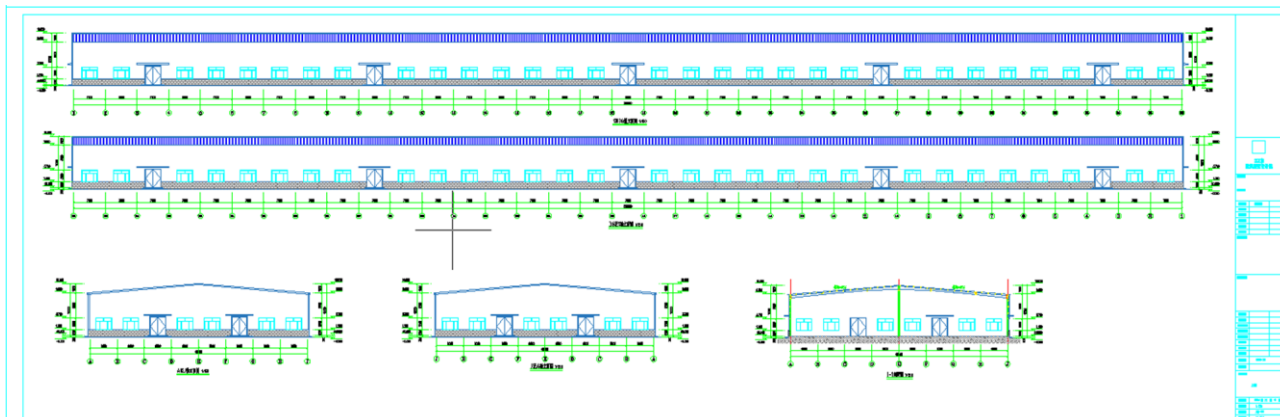
Workshop(3D Presentation)



Workshop(Customized CAD Drawing)



Workshop(Construction Drawing)



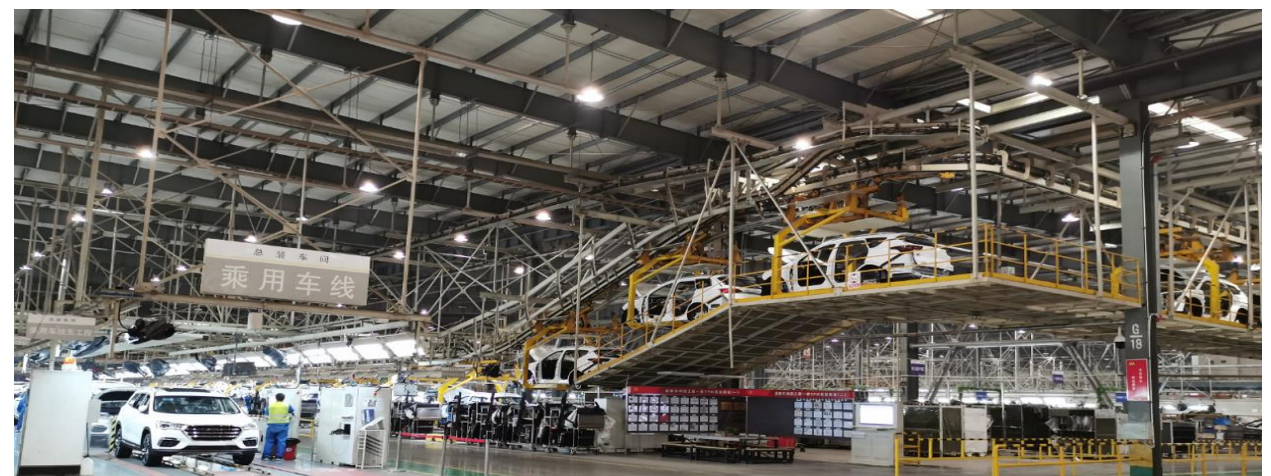
Ceiling Reference Drawing of Showroom



Office Ceiling Reference Drawing



Workshop(Tips for Pre-Consideration)





PART 04

Production Line

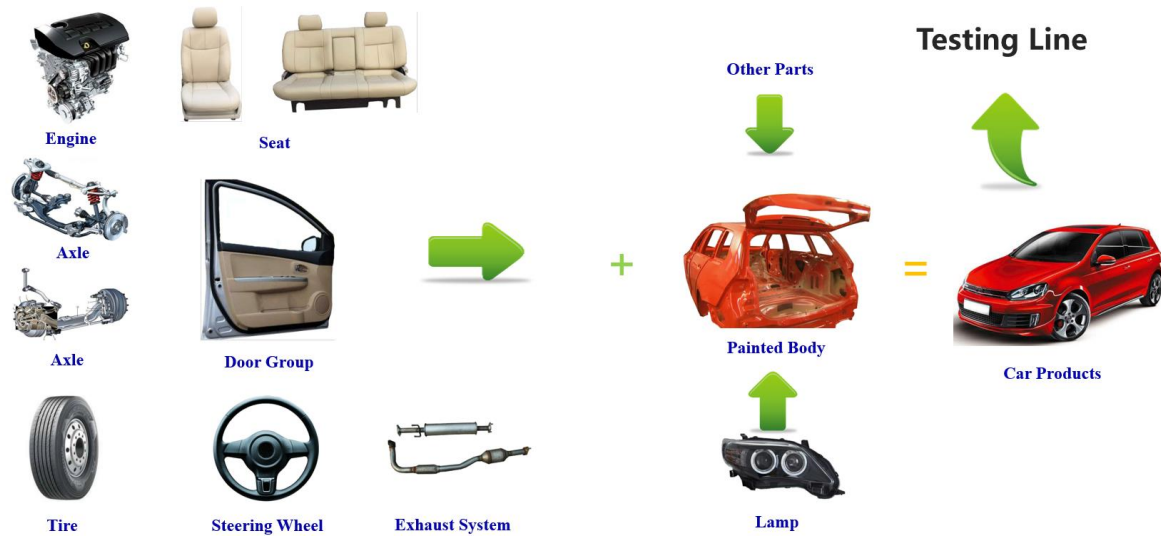
汽车生产线

- Definition & Presentation of CKD/SKD
- CKD和SKD的定义和相关模式介绍
- Different Production Line Introduction
- 汽车生产线介绍
- Factory & Investment/厂房展示和投资预算
- Production Line & Main Equipment
Presentation
- 生产线主要设备展示
- of Full Spectrum Vehicle Models
- 全类型车辆车产线和主要设备展示

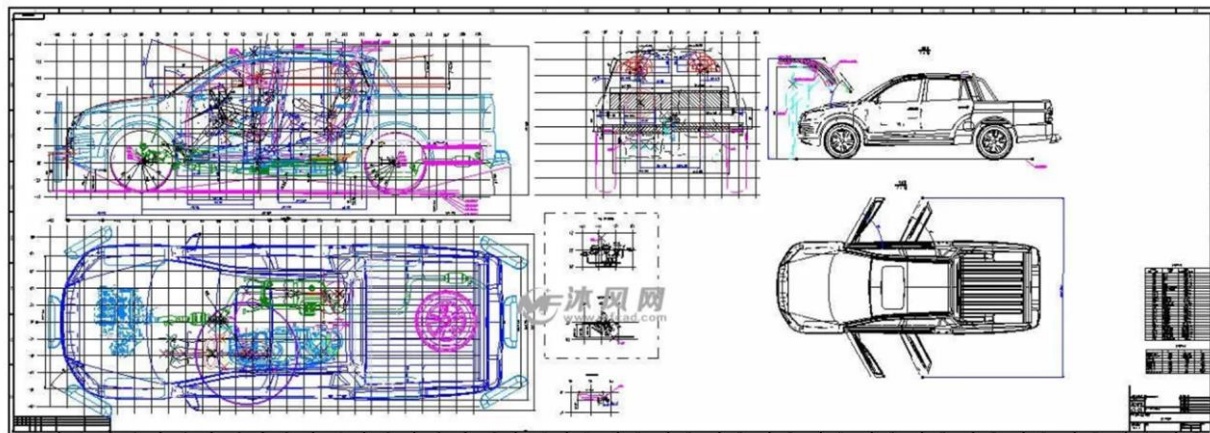
Definition of CKD/SKD

- SKD: Semi Knocked Down
SKD Line Consist of Assembly Line and Testing Line
- CKD: Completely Knocked Down
CKD production line Consist of Welding line, Painting line, Assembly line and Testing line.

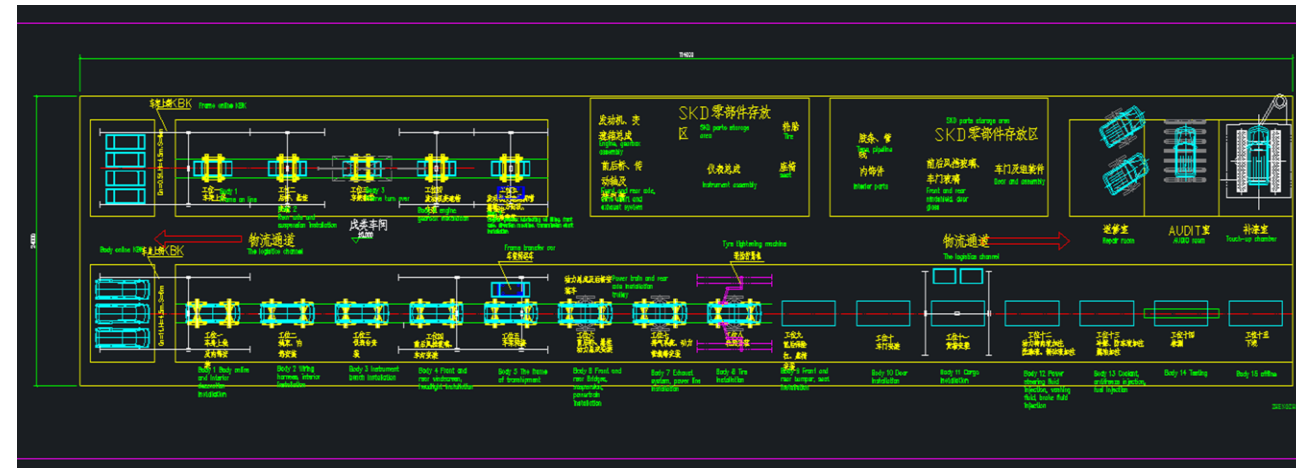
SKD or CKD Line advantages, Compared with CBU, the SKD and CKD Automobile parts import duty should be 5-8% or free, the CBU automobile import duty should be 30-40% or higher



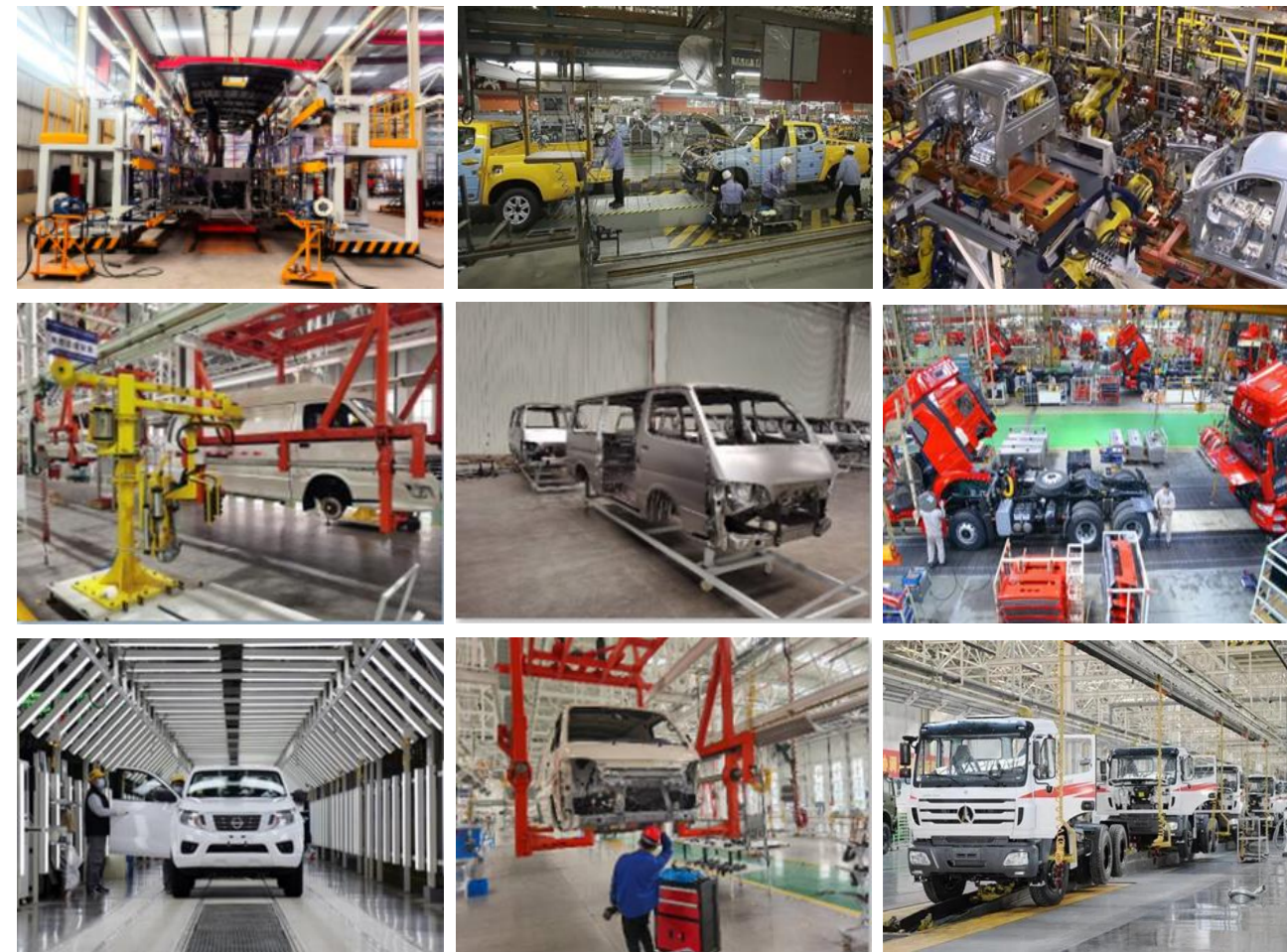
CKD/SKD Parts Sub-Assembly



CAD Drawings of the Assembly Line



Bus/Car/Pickup/Truck Assembly Line



Test Equipment



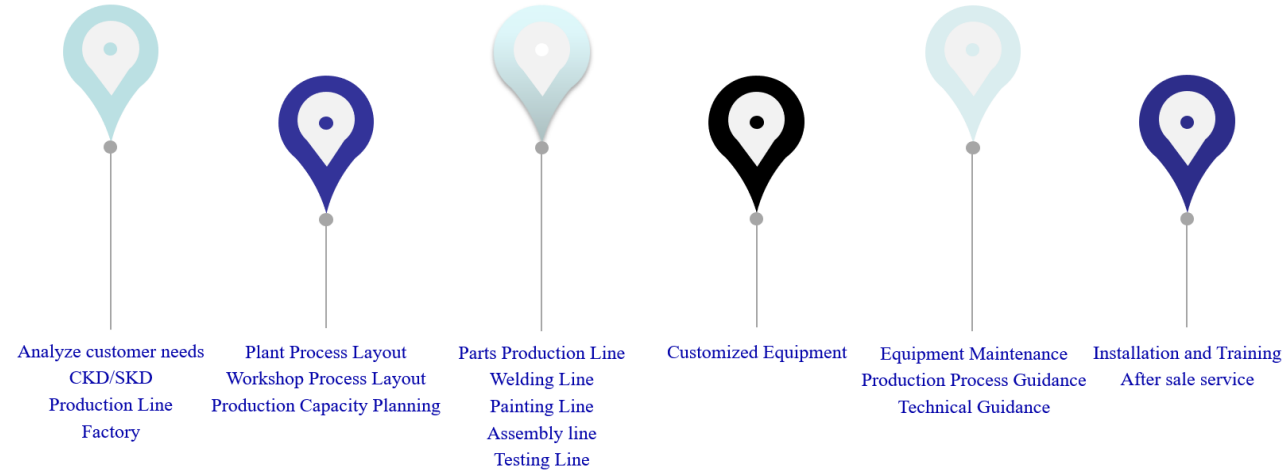
Main Equipment of Assembly Line



Investment of Assembly Line

Item	Assembly Line	Painting Line	Testing Line	Sub-total	Output Per Year
Car	2 Million	100,000.00 Repair Painting	250,000.00	2.35 Million	20000 Units
Pick-up	2 Million	100,000.00 Repair Painting	300,000.00	2.40 Million	15000 Units
Minibus Auto	3 Million	200,000.00 Repair Painting	300,000.00	3.50 Million	6000 Units
Minibus Manual	1.5 Million	200,000.00 Repair Painting	300,000.00	1.70 Million	6000 Units

What We Can Do For You





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Powering Your Future
e-Axle

PART 05

KD Parts & Technique Support

KD部件和技术支持

- Stamped Part of Vehicle
- 汽车冲压件
- Chassis Parts
- 底盘配件
- Parts Localized/ All Category
- 部件本地化供应
- Technique Support
- 技术支持

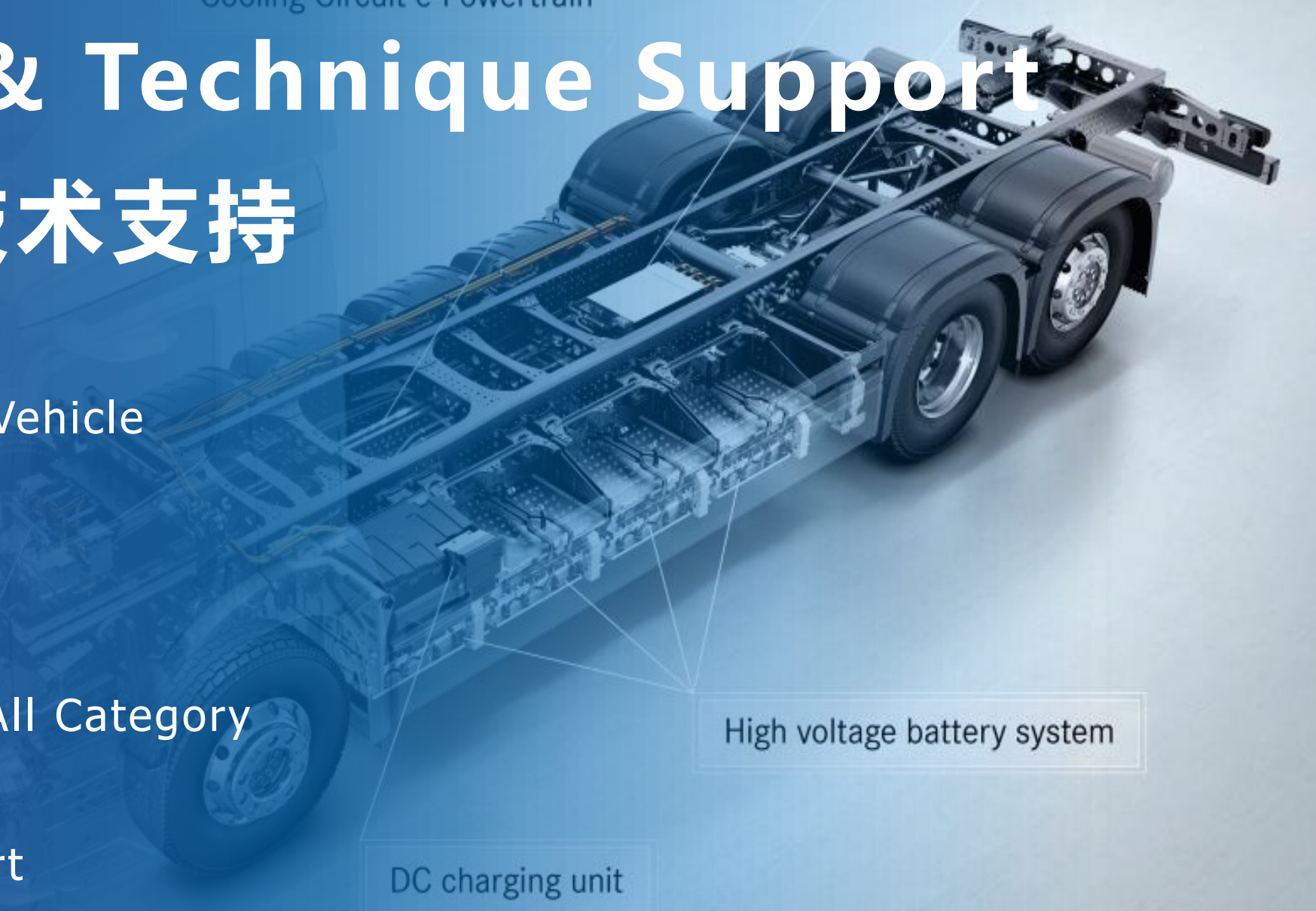
with HV & LV components

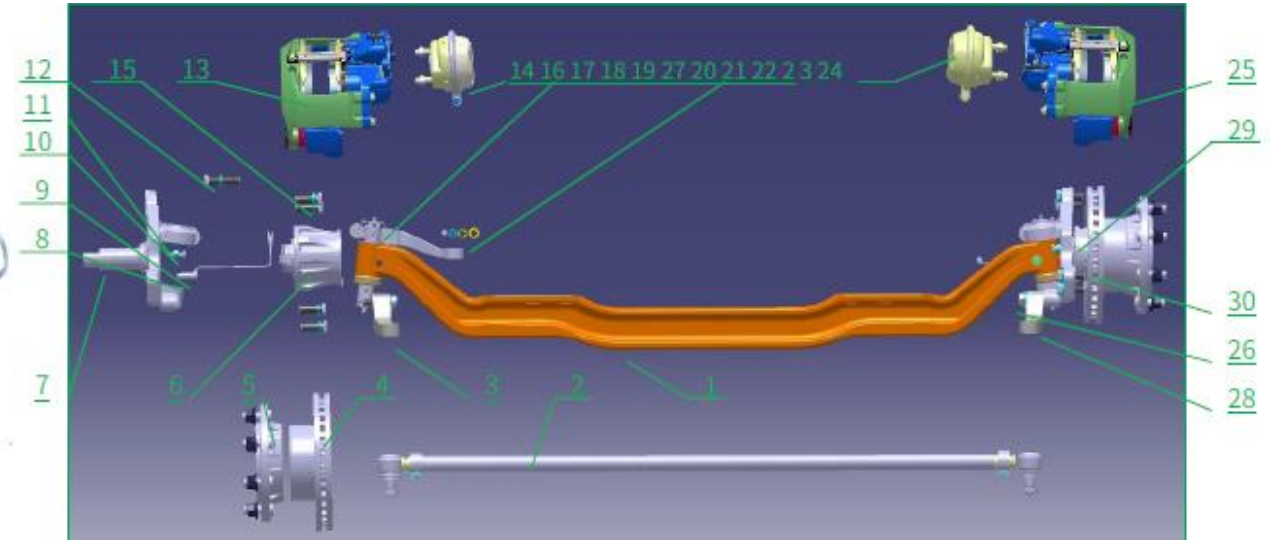
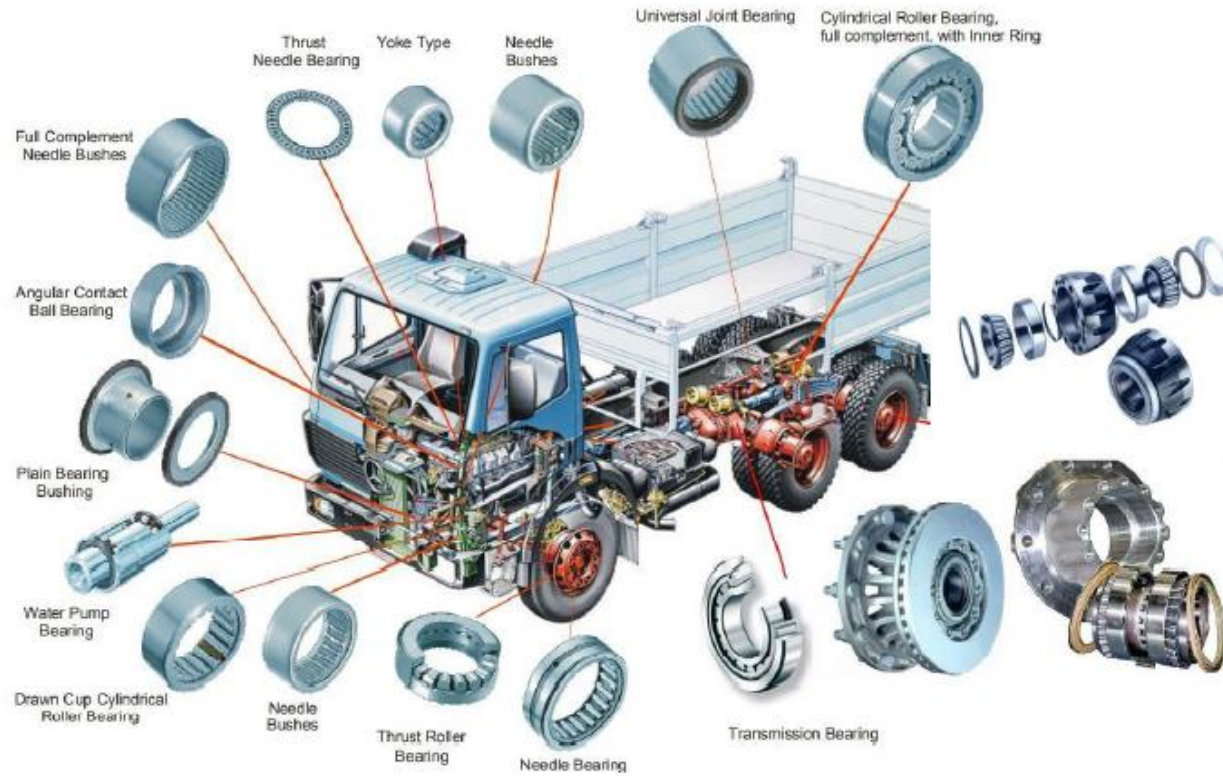
Cooling Circuit e-Powertrain

Inverter

High voltage battery system

DC charging unit





Rear Disc Hub



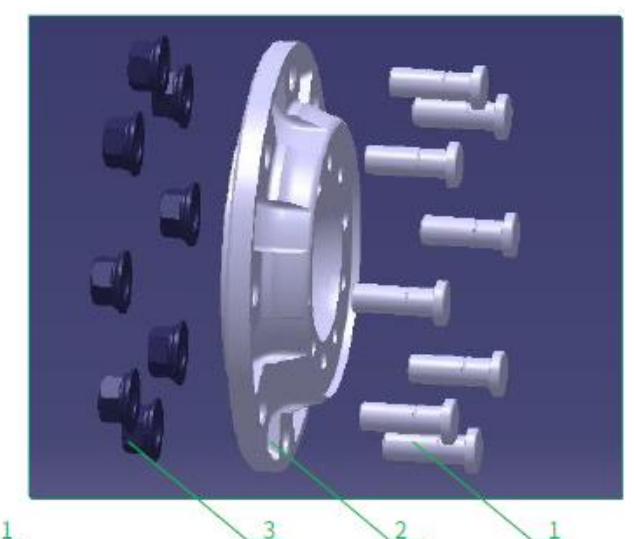
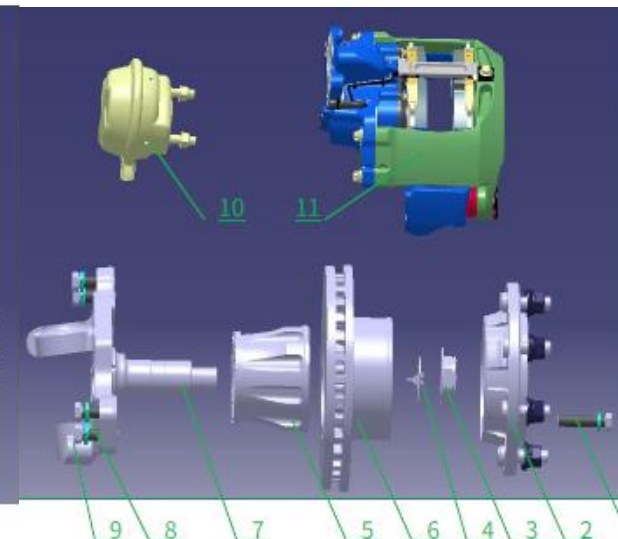
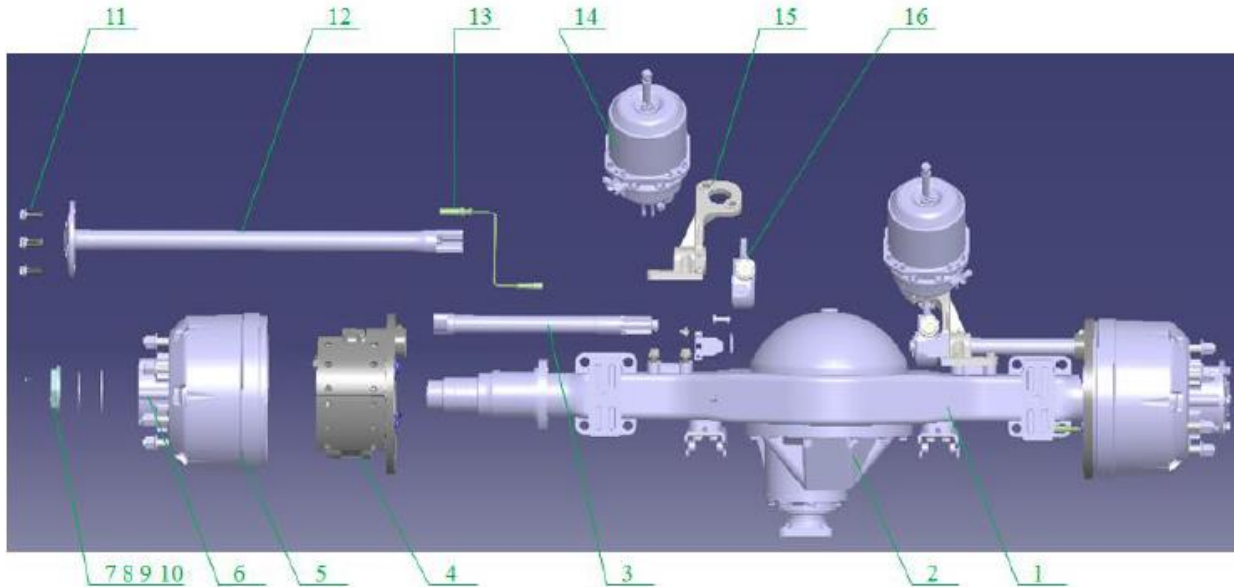
Rear Drum Hub



Split Hub Unit



Aluminum Hub



- 1-Axle housing 2-Main reduction 3-Brake camshaft 4-Brake 5-Brake drum 6-Bearing unit hub
- 7,8,9,10-Wheel End locking mechanism (Bearing Retaining ring, Anti-friction plate, Locking Nut, Tightening Screw)
- 11-Semi-shaft bolt 12-Semi-Shaft 13-ABS sensor 14-Brake air chamber 15-Air-Chamber bracket 16-Air-Chamber Adjusting Arm

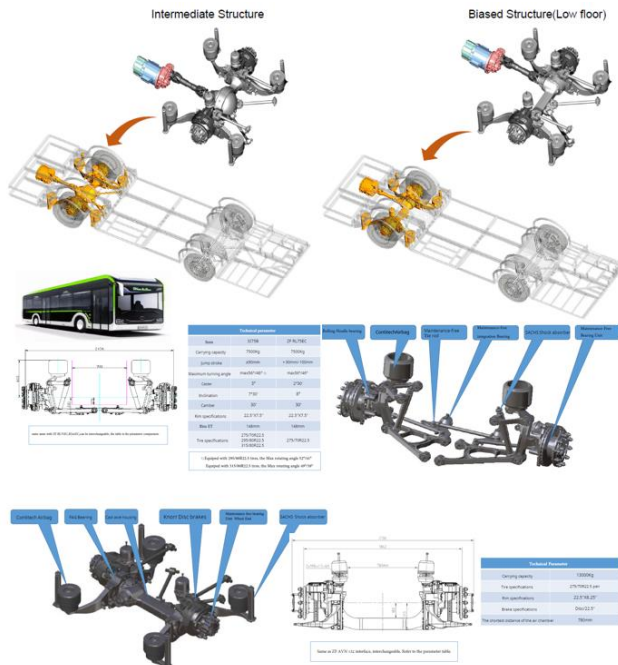


Stamping Parts



Bus Passenger Seats

Chassis Parts



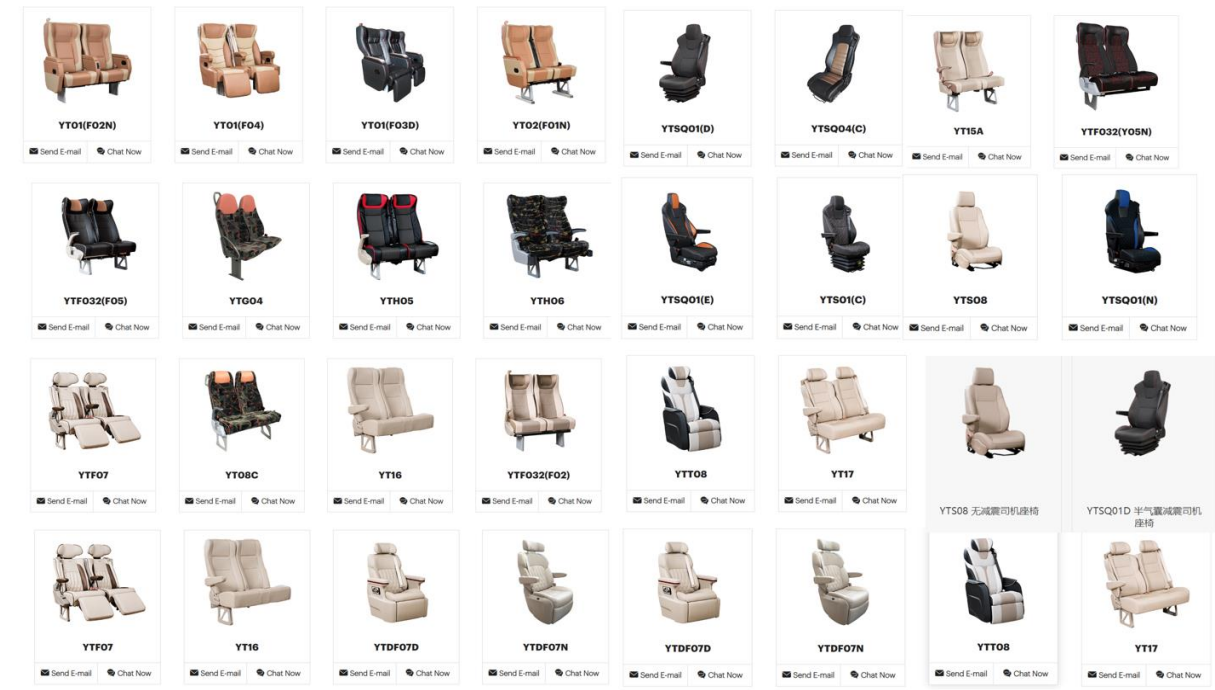
产品型号 (Product model) : EA38-1		额定载荷 (Rated Load)	3.5 t
速比 (Ratio)	19.22 (或选装最大输入扭矩320Nm)		
轮轴安装间距 (Rim installation Surface Distance)	1942 mm		
弹簧中心距 (Distance between leaf spring center)	1180 mm		
最大输出扭矩 (Max torque)	4370 Nm		
制动形式 (Brake form)	液力盘式 (Hydraulic disc)		
制动规格 (Brake specifications)	2x4x8		
驻车形式 (Parking form)	中央驻车 (Central parking lock)		
制动力矩 (Braking torque)	2x2800 Nm		
驻车制动力矩 (Parking brake torque)	8000 Nm (800kg阻力)		
车轮轴分布 (The tire studs P.D.C)	Φ222.25 mm		
轮毂轴承 (Hub bearing)	球笼单元 (Bearing unit)		
ABS	主动式 (独立)		
总重量 (Weight)	276 kg		

电机主要参数 Specification	
额定峰值功率 (Core/Peak Power)	65/120 kW
额定峰值扭矩 (Core/Peak Torque)	170/355 Nm
额定最高转速 (Core/Peak Speed)	3800/12000 rpm
峰值扭矩时间 (Peak duration)	480 s
最高效率 (Peak Efficiency)	437%

Bearing Series



Seats Parts





Air Conditioning



Air Bag Parts



Evaporator Blower



Valve Series





Build a complete technology system of electrification platform

We also has the ability to develop and manufacture the basic components of the three electric systems, as well as the ability to develop and match from the system to the vehicle level, which can completely realize the total solution and end-scene application of the electrification of commercial vehicles and construction machinery, and has the advantage of electrification platform technology.

Electrical control system

- Absorb Mordern technology, independent innovation, and research
- Complete product series, a wide range of applications
- The highest working efficiency point can reach 99.6%
- Good environmental adaptability and high reliability

Electrical drive system

- Domestic leading independent brand high-speed asynchronous motor
- Adopting the leading domestic permanent magnet synchronous motor technology
- High-precision electronic control system is perfectly matched to give maximum efficiency

PACK R&D

- Standardized dimensions, facilitating iterative development.
- Wide coverage of the full range of C-type, T-type, air-cooled, liquid-cooled, and explosion-proof products.
- Provide customized solution service for customers.

Electrified platforms

- Industry vehicle technology expert
- Complete vehicle development system
- Sound vehicle verification system

Electrical control system



VCU



MCU



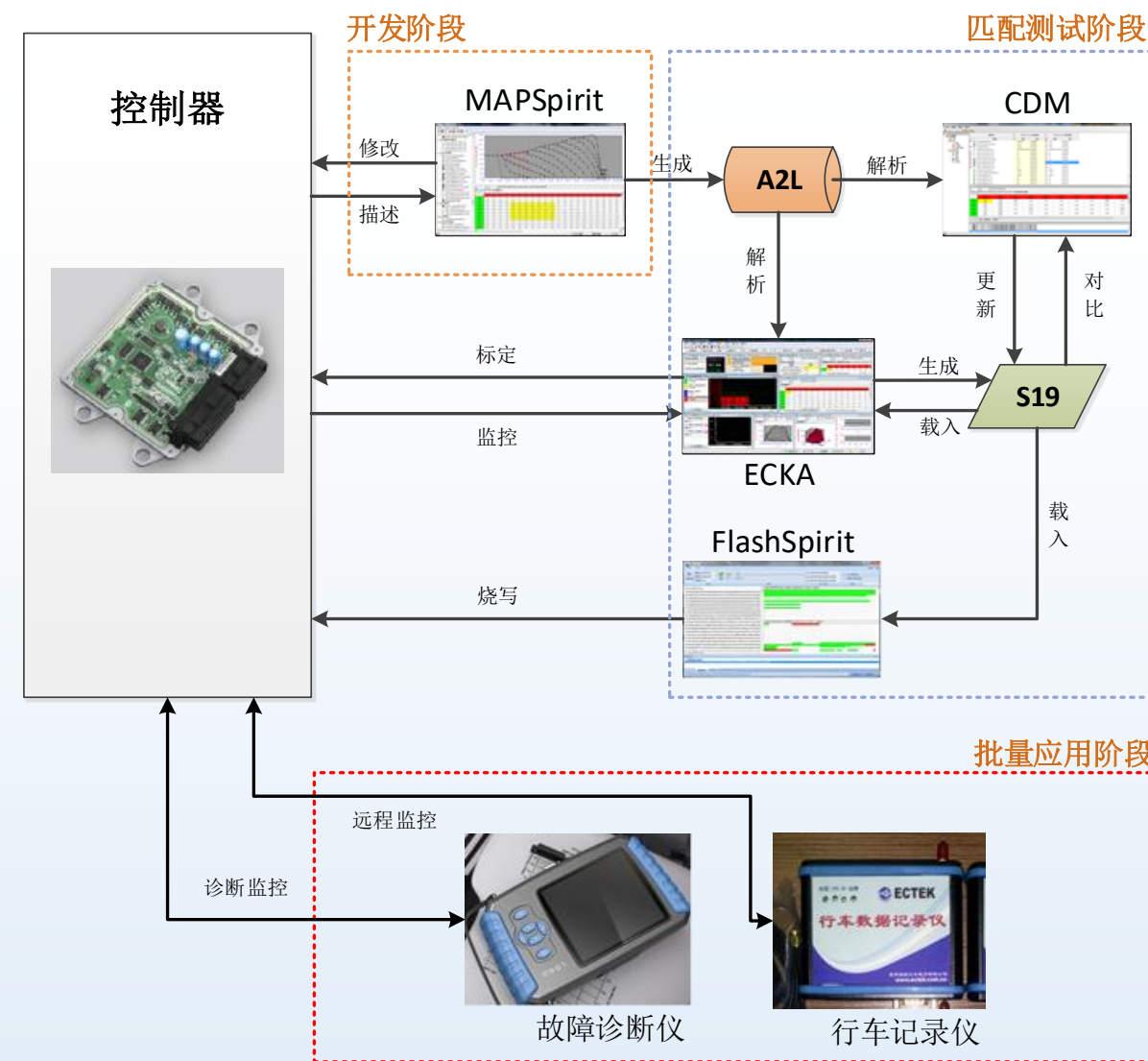
Auxiliary drive controller



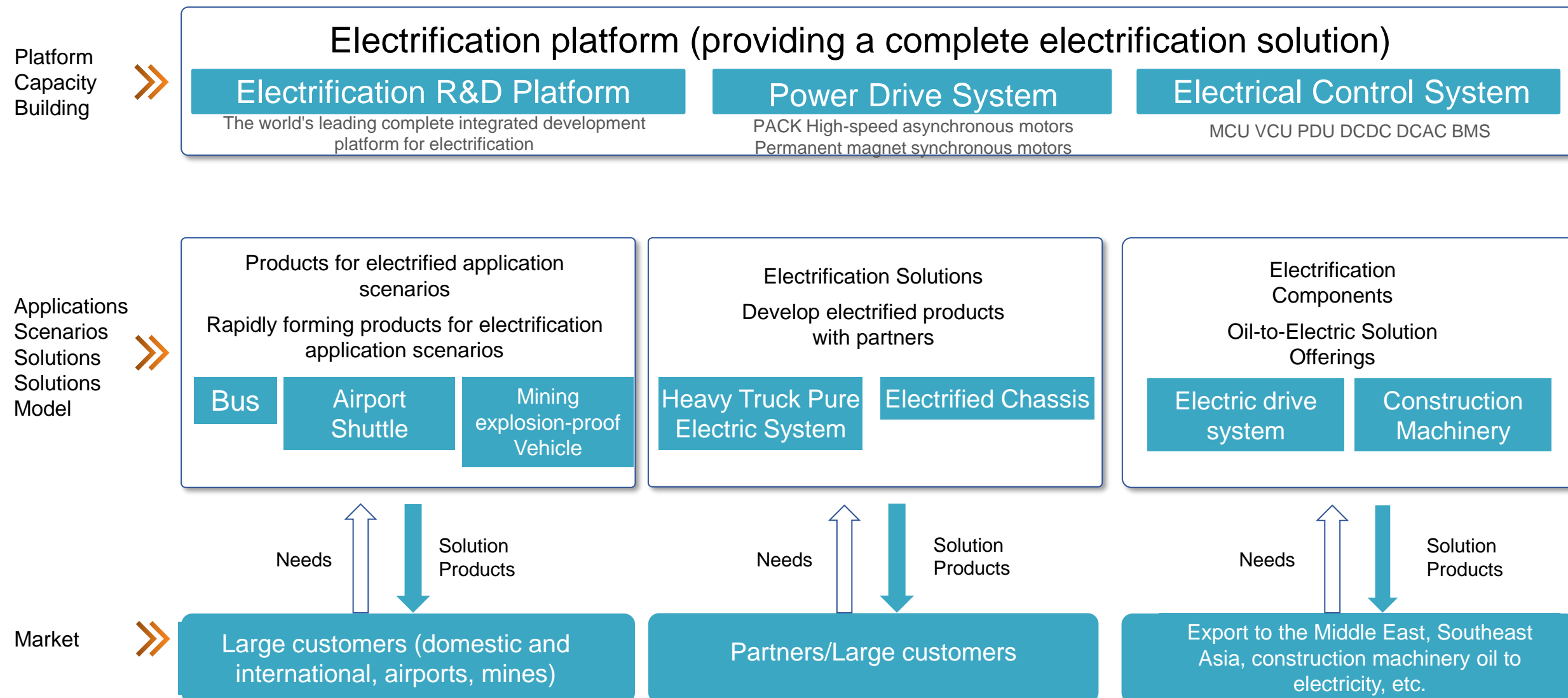
All-in-one integrated controller

6 platform products: 30kW, 50kW, 80kW, 100kW, 150kW, 250kW

Applicable application scenarios: 6-12m new energy buses, heavy trucks, electrified construction machinery, and other application scenarios



High-speed rail electronic control system downsizing development

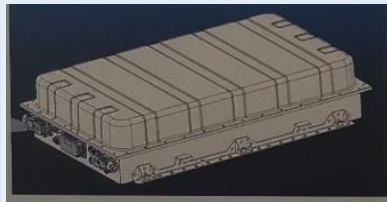


KD Parts & Technique Support
Technique Support
Battery Pack
电池包

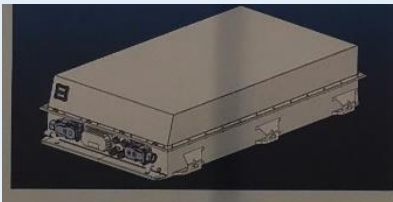


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PACK system



**First generation
lightweight standard
C box**



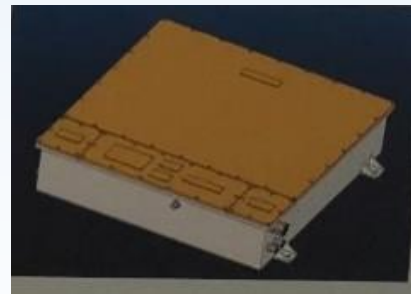
**Second generation
liquid-cooled
standard C-box**



**Logistics truck
standard box**



Mining explosion-proof battery A box



**Mining explosion-
proof battery B box**



**Switch Battery of
heavy truck battery
box**

**Internal module
structure design**



KD Parts & Technique Support
Technique Support
Supply Chain Resource



CHINA VEHICLE INDUSTRY
Powering Your Future

Supplier

Partners

R&D Resources

CATL 宁德时代





CHINA VEHICLE INDUSTRY

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PART 06

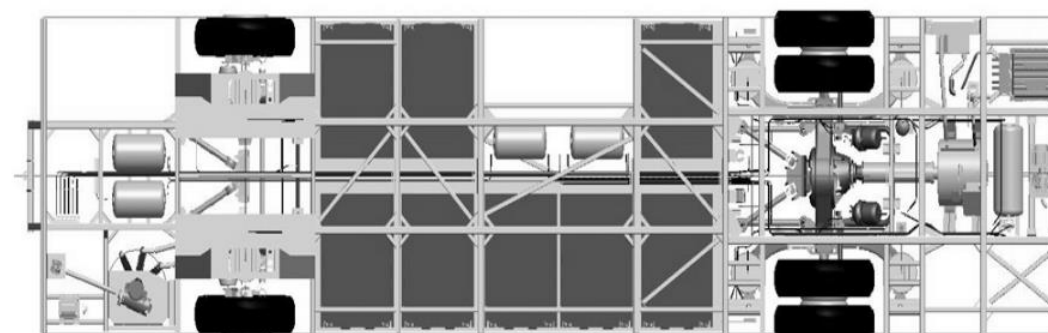
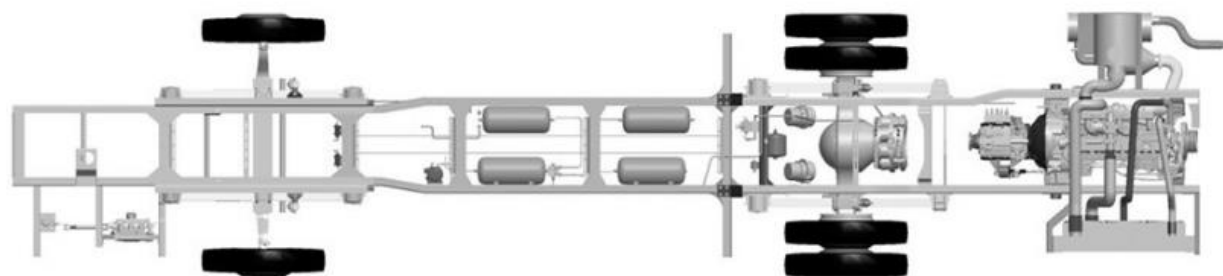
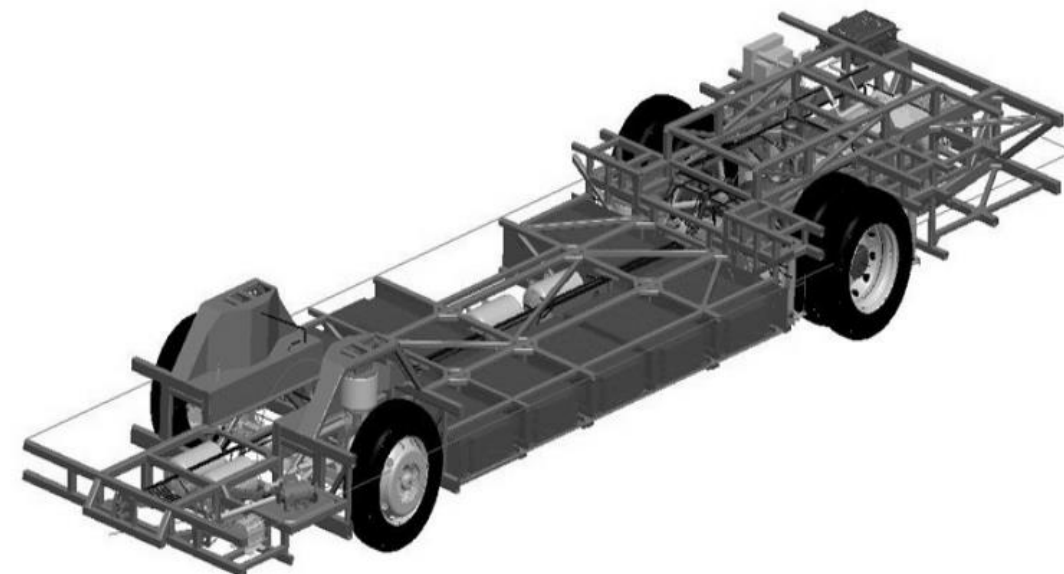
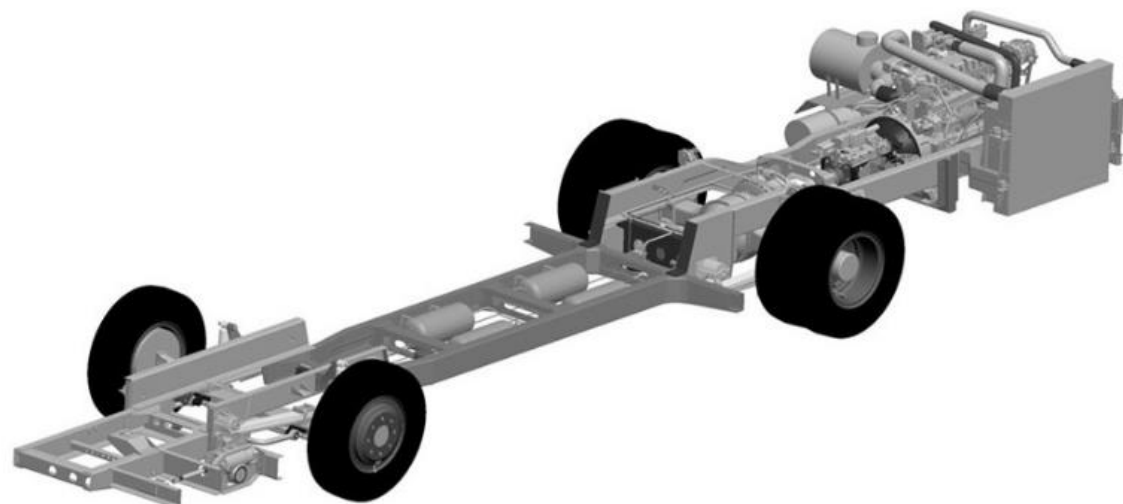
Sustainable Power Solution

可持续能源解决方案

- ✓ Retrofitting/Oil to Electric
- ✓ 油改电技术
- ✓ Vehicle Electrification/
- ✓ All EV Series Presentation
- ✓ 全系列新能源车型谱展示
- ✓ Clean Energy Solution/
- ✓ 清洁能源方案
- ✓ Solar Panel/
- ✓ Energy Storage/Charging Station
- ✓ 光,储,充方案



Sustainable Power Solution
Retrofitting
Bus--Oil to Electric
客车-油改电



Traditional Chassis

Electric Chassis



Sustainable Power Solution

Retrofitting

Truck--Oil to Electric

卡车油改电



Remove the Oil system



Battery Mounted on Both Sides



Battery Mounted on Back of the Cab

Construction Loader -Oil to Electric



Construction Cost -Oil to Electric

No.	Item	Material Status	Set	Price(CNY)
1	Drive system	Drive system, connection flange, motor controller, suspension soft pad, 3-in-1, high voltage distribution cabinet, drive shaft	1	100000
2	Cooling system	Cooling water tank, water pump, water pipe, expansion tank		8000
3	Air conditioning system	Air conditioner compressor, condenser, PTC, piping		10000
4	Low voltage system	Car controller, gas pedal, shift handle, low-voltage distribution box, simple instrument, insulation monitoring module, driving recorder, etc.		10000
5	Wiring	L/H voltage wiring		12000
6	Bracket Accessories	Bracket, auxiliary materials, wear and tear parts, outer shell		10000
7	Battery	350kwh		520000
8	Labor cost	Assembly and commissioning fees		30000
9	Total			¥ 700,000 (CNY)



 产品目录 Products Catalog

K系列

K series



大轿车

公路客车

城市客车

双层观光客车

Large Limousine

Coach

City Bus

Double-decker

Z系列

Z series



机场专用

环卫专用

军警专用

矿卡专用

Airport Bus

Garbage Truck

Police Vehicle

Mine Truc

W series

W系列



微面物流

轻卡物流

轻客物流

Logistics Van

Logistics Truck

Logistics Hiace

Core components

零部件



电机产品

电机控制

电池pack

Motor

MCU

Battery pack

Sustainable Power Solution Vehicle Electrification



CHINA VEHICLE INDUSTRY

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K 系列产品 | 高端商务系列 High-end Business Series



- 全球首创、正向研发、拥有自主知识产权的新能源商务车
- 可定制化空间，满足商务、客运多种需求
- 仪表台采用轿车设计理念，布置大面积贯穿左右的桃木纹面板、富有厚重的质感
- 四驱、四轮独立悬挂技术，驾乘更舒适
- The new energy business limousine is the world-first and original design with independent intellectual property China;
- Customization available to meet different requirements.
- The dashboard adopts car design concept, and is arranged with large area of peach wood pattern panel and rich in heavy texture.
- Four wheel drive and four wheel independent suspension technology for better driving feeling.

K 系列产品 | 公交系列 City Bus



- 5.9米-18米的长度段设计，满足各线城市公交主线、支线、最后一公里个性需求；
- 一级踏步、双通道中开门等设计，最大化的满足了城市公交乘客上下的舒适性和便捷性；
- 一线品牌电池、电机、电控的布置和适配，车辆能耗更低、故障率更少；
- Length of 5.9m-18m to meet the individual needs of the main line, branch line and the last kilometer of urban public transport.
- The design of first step and double channel middle door opening can maximize the comfort and convenience of urban bus passengers.
- The arrangement and adaptation of battery, motor and electronic control of first-line brands can reduce the energy consumption and failure rate of vehicles.

K 系列产品 | 公路客车系列 Coach Series



- 仿生设计，从海豚、蜻蜓提取造型元素设计前后围造型，充分利用LED技术，对灯组造型及灯光效果进行设计，使整车造型更具识别性。
- 全承载鸟笼式结构，确保车辆内人员乘坐的舒适性和安全性；
- 车辆长度段从8米-13.4米，满足各类型客运、旅游、通勤的个性化座椅布置要求；
- Bionic design, extracted modeling elements from dolphins and dragonflies, designing front and rear wall modeling, by use of LED technology, designing lamp group modeling and lighting effect, making the vehicle modeling more recognizable.
- Full bearing birdcage mono structure ensures the comfort and safety of people in the vehicle.
- Length from 8 m to 13.4m, meeting the personalized seat arrangement requirements for passenger transport, tourism and commuting.

Z 系列产品 | 机场专用 Airport Bus



- TAM品牌授权、共同研发；
- 前、后盘式制动、塞拉门布置、电子倒车镜等尊享标配，提升乘客使用档次，降低车辆安全风险；
- 26㎡超大站立面积，112+2的乘客区布置，保证了摆渡车使用效率最大化；
- 机场牵引车、吹雪车、清扫车等专用设备内容满足机场多元化的使用需求；
- Tam brand authorization, joint research;
- Front and rear disc brakes, sliding door layout, electronic reverse mirror and other standard accessories can improve the use level of passengers and reduce vehicle safety risks.
- 26 m² standing area, 112 + 2 passenger area layout, to ensure the maximum use efficiency of the bus.
- Airport tractor, snowblower, sweeper and other special equipment content to meet the diversified needs of the airport.

Sustainable Power Solution Vehicle Electrification



CHINA VEHICLE INDUSTRY

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Z 系列产品 | 环卫专用 Garbage Truck

Z series products



- 可卸式垃圾车、扫路车、洗扫车、餐厨垃圾车等多品种、多吨位，提供多样选择；
 - 核心动力总成的自主程序设计及布置，能耗更低、使用更可靠；
 - 同吨位底盘上装箱体容量更大、清洁更高效。
- Many kinds and tonnages of unloadable garbage trucks, road sweeper, washing sweeper, kitchen garbage truck, etc., providing a variety of choices.
 - Independent program design and layout of the core power train can reduce energy consumption and make it more reliable;
 - The chassis with the same tonnage is equipped with larger container capacity for more efficient cleaning.

Z 系列产品 | 矿卡专用 Mine Vehicle

Z series products



- 矿用自卸车采用磷酸铁锂电池，装备大功率永磁同步电机，直流双枪快充模式，满足矿区装载要求；
 - 矿用SUV采用成熟中道天上装布置，防爆动力电池PACK设计，完全符合矿下车辆使用标准；
 - 换电式结构可实现5分钟更换电池操作，使用效率可与传统动力相媲美。
- LiFePO4 battery, high-power permanent magnet synchronous motor, DC double gun fast charging mode to meet the loading requirements of mining area;;
 - Mine SUV adopts explosion proof power battery pack, to meet the use standard in the mine.
 - The battery can be replaced in 5 minutes, the efficiency is comparable to that of the traditional power.

Z 系列产品 | 军警专用 Police Vehicle

Z series products



- 重型卡车设计，动力强劲，突破能力强；
 - 防弹重装甲，液压升降，不惧复杂路面；
 - 防爆护面，防爆防护网，可选装车体自防火装置，不惧复杂情况。
- Heavy truck design, strong power, strong breakthrough ability.
 - Bullet proof heavy shovel, hydraulic lifting, suitable for complex road situation.
 - Explosion proof cover. The explosion-proof protective net can be equipped with self-protection and fire-extinguishing device for car body, not afraid of complex situations.

W 系列产品 | 轻客物流 Light Bus Logistic 厢式物流 Van Logistic 微面物流 Mini Van Logistic

W series products



- 自主核心动力总成设计布置，效率及运行里程优于行业同类车型10%；
 - 货箱大容量、平地板设计，确保同类长度车型使用空间最大；
 - 物流系列涵盖2.5吨微卡、微面、3.5T微卡、轻客、4.5T轻卡、8.5T轻卡等产品平台；
- Independent autonomous design of core powertrain ensuring 10% higher mileage and efficiency than the similar type of vehicles in the industry.
 - A larger capacity and flat floor design of the container ensuring the maximum use space of the same length vehicle
 - 2.5T mini truck, mini van, 3.5T mini truck, light bus, 4.5T light truck, 8.5T light truck available for logistic market

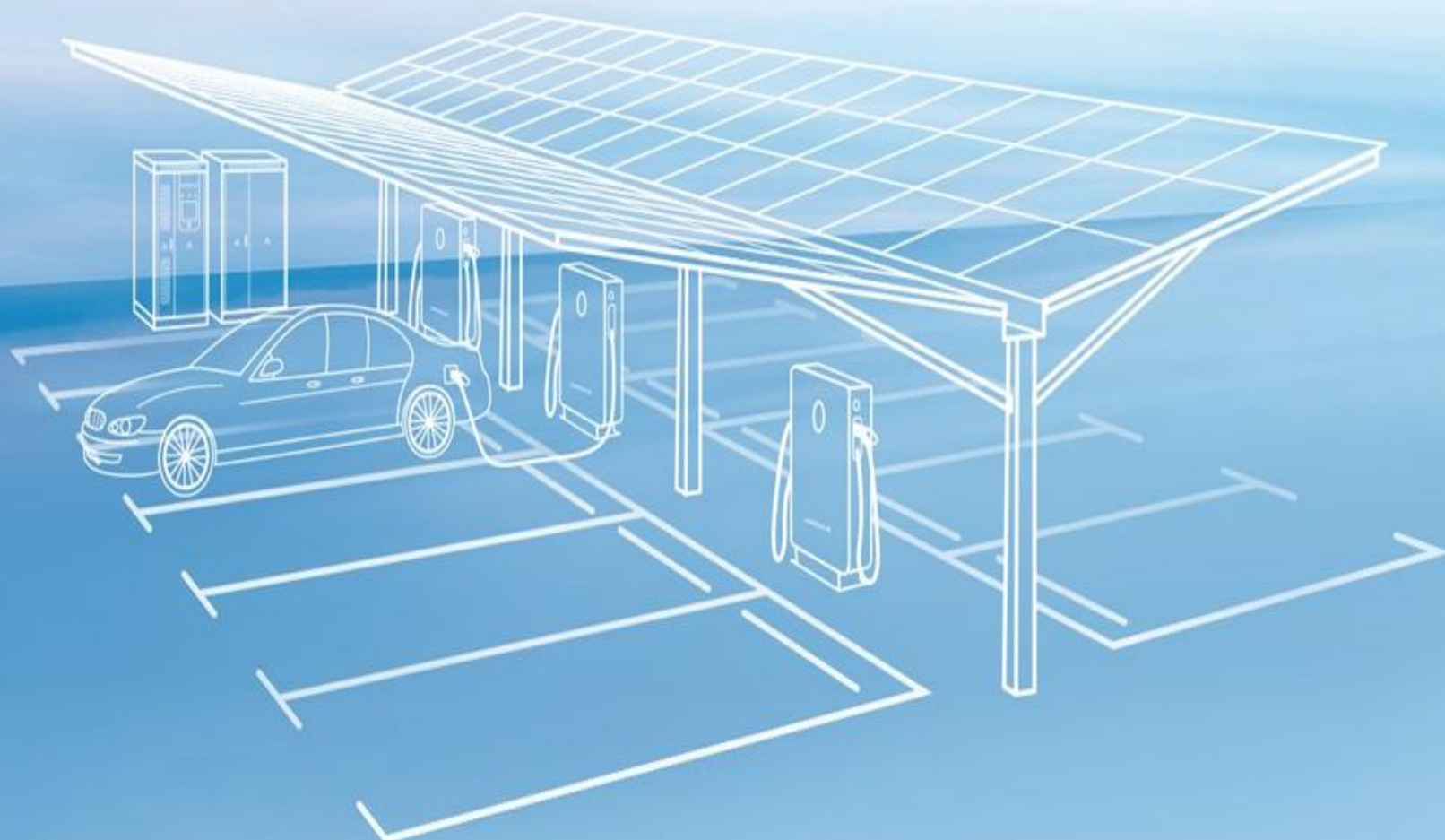
Sustainable Power Solution
Vehicle Electrification
Solar Panel
光伏能源



CHINA VEHICLE INDUSTRY

Powering Your Future

- ✓ Solar Panel
- ✓ 太阳能组件
- ✓ Energy Storage
- ✓ 储能
- ✓ Charging Station
- ✓ 充电桩
- ✓ Energy Storage/Charging Station
- ✓ 光,储,充一体解决方案



	核心设备	集成开发	平台及服务
 光	 逆变器	 大型电站  分布式光伏  户用光伏  水面光伏  智能清扫	 云平台  智能运维
 风	 风电变流器	 风电场	 数字能源服务
 储	 储能变流器	 储能系统  家庭光储	 虚拟发电
 电	 充电桩  电控	 光储充  V2G	 碳资产管理
 H ₂ 氢	 制氢设备	 制氢系统  氢能发电	 区块链

Solar Panel/Energy Storage/Charging Station

Sustainable Power Solution Clean Energy Solution

光伏逆变器



新能源投资开发业务



储能变流及储能系统



风电变流器



电动汽车充电设备



新能源汽车驱动系统



智慧运维业务



水面光伏系统



光伏智能清扫业务



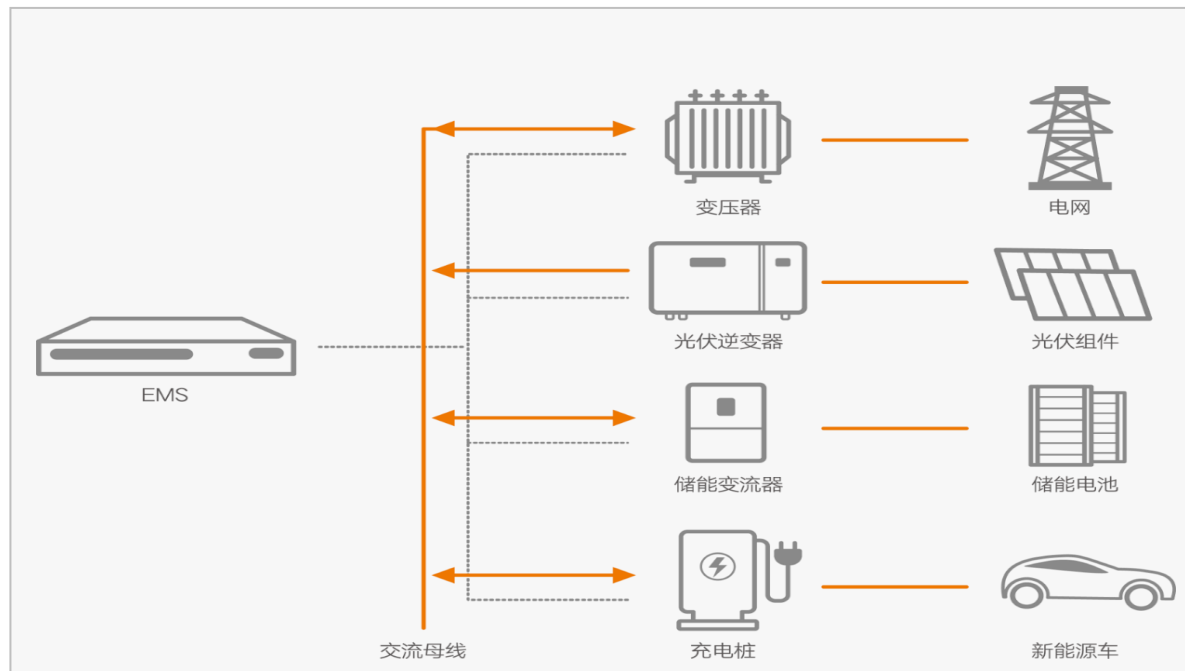
可再生能源制氢系统



Solar Panel/Energy Storage/Charging Station

Optical Storage and Charging Solutions— Local and Remote Solutions

Local Solution

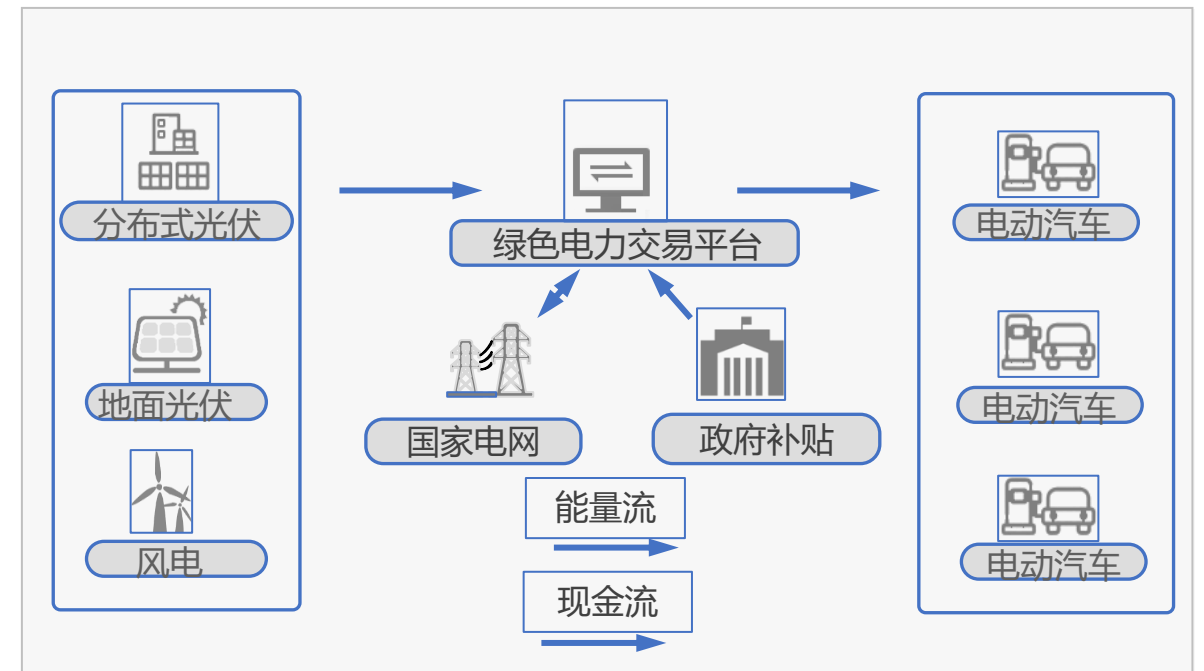


光伏+储能系统+充电

- 弥补配电容量不足，节省扩容成本
- 盈利模式多元化
- 新能源车用新能源电



Remote Solution



远端绿电+跨区域交易

- 绿电持续供应
- 电力、交通系统脱碳
- 助力碳中和



Sustainable Power Solution

Clean Energy Solution

Photovoltaic



CHINA VEHICLE INDUSTRY

Powering Your Future

标准薄膜组件

ASP-S1



组件参数

产品尺寸	重量	功率温度系数	电压温度系数	电流温度系数
L1200*W600*D6.8mm	11.8kg	-0.214%/°C	-0.321%/°C	0.060%/°C
输出功率保证	输出功率 10年内保证达到额定输出功率的90%， 25年内保证达到80%。			
材料和制造工艺	保证期：10年			

S1组件参数

规格	ASP-S1-80	ASP-S1-85	ASP-S1-90
额定功率 (Pm)	80W	85W	90W
开路电压 (Voc)	118.9V	120.5V	123V
短路电流 (Isc)	0.95A	0.98A	1.04A
工作电压 (Vm)	94.1V	96.6V	97.8V
工作电流 (Im)	0.85A	0.88A	0.92A

测试条件: STC 1000W/m², AM1.5, 25°C

光伏真空组件

ASP-SHP



光伏真空组件参数

功率温度系数	电压温度系数	电流温度系数	
-0.214%/°C	-0.321%/°C	0.060%/°C	
输出功率保证	输出功率 10年内保证达到额定输出功率的90%， 25年内保证达到80%。		
材料和制造工艺	保证期：10年		
规格	ASP-SHP		
传热系数	0.8W/m ² K		
导热系数	0.023W/mK		
产品尺寸	L1200*W600*D20mm		
额定功率 (Pm)	72W	54W	48W
开路电压 (Voc)	116V	116V	116V
短路电流 (Isc)	0.88A	0.78A	0.59A

标准透光组件参数

产品尺寸	重量	功率温度系数	电压温度系数	电流温度系数
L1200*W600*D7.0mm	11.8kg	-0.214%/°C	-0.321%/°C	0.060%/°C
输出功率保证	输出功率 10年内保证达到额定输出功率的90%， 25年内保证达到80%。			
材料和制造工艺	保证期：10年			

规格	ASP-ST1-48	ASP-ST1-64	ASP-ST1-72
额定功率 (Pm)	48W	64W	72W
开路电压 (Voc)	116V	116V	116V
短路电流 (Isc)	0.59A	0.78A	0.88A
工作电压 (Vm)	87V	87V	87V
工作电流 (Im)	0.55A	0.73A	0.82A
透光率	40%	20%	10%

测试条件: STC 1000W/m², AM1.5, 25°C



St组件透光效果



透光率可调



图案、颜色可定制



Sustainable Power Solution

Clean Energy Solution-Project Application



CHINA VEHICLE INDUSTRY

Powering Your Future

光伏农业大棚Photovoltaic agricultural greenhouse



光伏外立面 Photovoltaic facade



光伏车棚
Photovoltaic
Vehicle shed



光伏公交车亭
Photovoltaic CityBus
Station

Sustainable Power Solution

Charging Station

AC Charger Serious



CHINA VEHICLE INDUSTRY

Powering Your Future

GB

EC

US



Pillar & Wall & Ground Charger
柱式，立式和挂式充电桩



Advertisement Charger
广告展示充电桩



Mobile Charger
移动充电桩

DC Charger Serious



Advertisement Display DC
Charger 广告展示直流充电桩



Distributed Large Output DC Charger
分布式直流充电桩



CHINA VEHICLE INDUSTRY

Powering Your Future



Engineering the Impossible, Powering your Future.