CATL 时代智能

承载您的自由移动时代

Free the era of **mobility**



CATL 时代智能



公司简介
Our Company

宁德时代(上海)智能科技有限公司(简称“时代智能”),是国际领先的新能源科技公司,致力于为全球移动出行行业的客户及合作伙伴,提供以电池为核心的宁德时代磐石底盘产品和技术服务。

Contemporary Amperex Intelligent Technology (Shanghai) Co., Ltd. (abbreviated as "CAIT") is a subsidiary of CATL. At CAIT we are committed to delivering advanced battery-centric Bedrock Chassis products and technical services to clients and partners in the global mobility industry.

2021.11
成立时间
CAIT Established

研发中心
上海·临港
R&D Center
Shanghai

智造基地
江西·宜春
Intelligent Manufacturing Base
Yichun Jiangxi

测试验证中心
上海·临港
Testing and Validation Center
Shanghai

一套底盘架构 百变车型

Universal Chassis Architecture for Multi-Model Adaptation



承载您的自由移动时代

FREE THE ERA OF MOBILITY

FREE
THE ERA OF MOBILITY

承载您的自由移动时代

INNOVATIVE

创新

上下车体解耦
Top hat decoupled from chassis

软硬件解耦
Software-hardware decoupling

平台化产品
Platform based products

模块化设计
Modular Design

INTEGRATED

集成

CTC技术
Cell to Chassis Technology

三电集成
Power Management

热管理集成
Thermal Control

域控制器集成
Chassis Domain Controller

INTELLIGENT

智能

标准接口
Standard interfaces

灵活适配
Flexible adaptation

数字孪生健康诊断
Digital Twin Health Diagnostics

软硬可拓展
Expandable hardware and software

INFINITE

自由

造型定义
Model Flexibility

空间定义
Space Configurability

功能定义
Customer Focused Feature Selection

软件定义
Intelligent Software Definition

INSPIRING

效益

投资价值提升
Investment Minimization

研发效率提升
R&D Effort Reduction

维护效率提升
Intelligent and Predictive Maintenance

更节能
Energy-Saving optimization

更安全
Enhanced Safety Performance

宁德时代磐石底盘

DESIGN CONCEPT
设计理念

上下解耦
Top hat decoupled from chassis

标准化的智能底盘将让客户更加省时、省心、省力，最大程度解放精力，更加聚焦用户体验和消费者需求，实现差异化的场景落地和个性化应用。

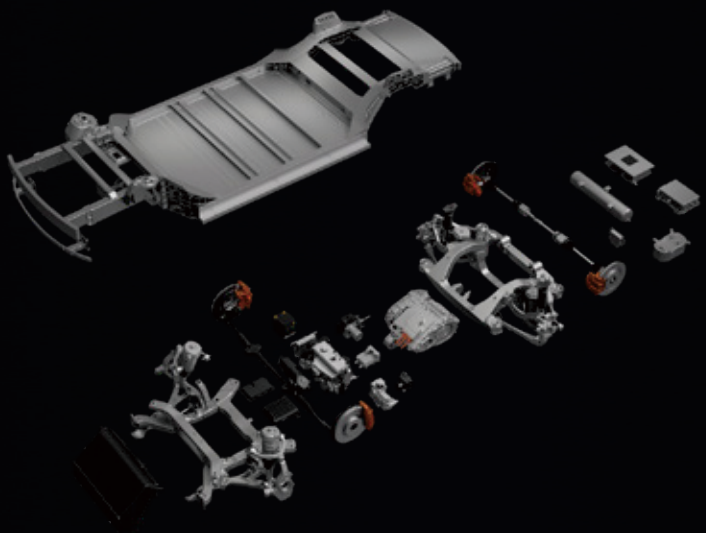
Our standardized intelligent chassis is helping mobility developers save time, effort and money, freeing up their energy to the greatest extent possible, focusing more on user experience and consumer needs, while also realizing differentiated scenario-based implementation and personalized applications.



高度集成
Highly integrated

宁德时代磐石底盘的核心设计理念是将五大核心技术及零部件创新集成到物理底盘车架中,通过标准化的机械接口、电气接口、软件接口,实现上下车体从物理硬件到智能软件的全栈解耦,让平行开发、同步迭代成为可能。

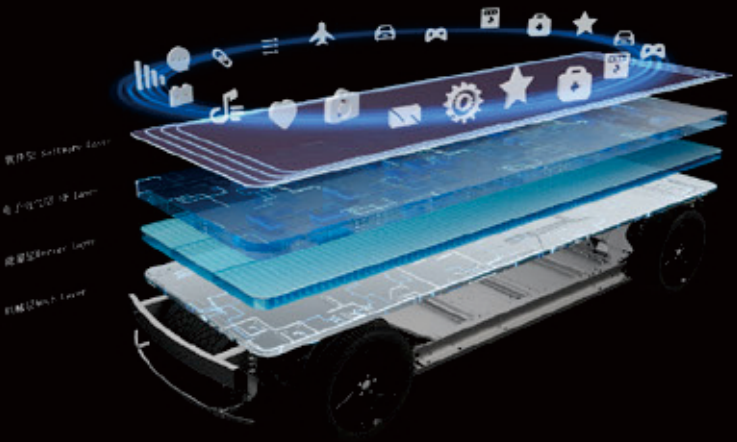
The core design philosophy of CATL Bedrock Chassis is to integrate five core technologies and the component innovations into the physical chassis frame. It aims at realizing full-stack decoupling between the top hat and chassis from hardware to intelligent software through standardized mechanical, electrical and software interfaces, thus making parallel development and synchronous iteration possible.



对外开放
Open to the public

基于分层式架构实现宁德时代磐石底盘的软硬解耦、软软解耦。其中安全实时的系统支持高等级智能驾驶开发，丰富的中间件支持多场景智能应用部署。

Based on layered architecture, the CATL Bedrock Chassis realizes soft-hard decoupling and soft-soft decoupling, where the secure real-time system supports development of high-level intelligent driving, and the diverse middleware supports the deployment of multi-scenario intelligent application.



PRODUCT MATRIX

产品矩阵



磐石底盘
CATL Bedrock Pro

高安全旗舰版
The Ultra-high Safe Flagship Edition

120km/h正面碰撞不起火，不爆炸
120km/h Frontal Impact, No Fire, No Explosion



CATL Bedrock - S

性价比家用&运营
Cost-effective for home usage and business operation

Sedan
SUV
MPV
……



CATL Bedrock - M

越级空间，高性能载人
Superior space, high-performance passenger carrier

Sedan
SUV
MPV
One-box
Cross
……



CATL Bedrock - L

技术旗舰，多场景兼顾
Technology flagship, multi-scenarios considered

全尺寸Sedan　Full-size Sedan
全尺寸MPV　Full-size MPV
Off road SUV
LCV
VAN
Pickup
专用车　Purpose-built vehicle
……

FREEDOM OF MOBILITY

CATL BEDROCK CHASSIS ADAPTIVE SOLUTIONS

解决方案套件

基于创新的软硬件架构设计，匹配多样化的模块解决方案套件，实现宁德时代磐石底盘软硬件及功能的灵活可拓展。

Based on the innovative hardware and software architecture design while matching with diverse modular solution kits, realize the flexibility and scalability of CATL Bedrock Chassis hardware and software and features.

解决方案
Solutions



电池全栈解决方案(CTC、换电)
Battery full-stack solution
(CTC、battery swapping)



全栈800V电驱动解决方案
Full-stack 800V
electric drive solution



快充全栈解决方案(神行超充)
Fast charging full-stack
solution(Shenxing Supercharger)



X-By-Wire全栈解决方案
X-By-Wire full-stack solution



底盘EEA&域控解决方案
Chassis EEA&domain control solution



安全及智能驾驶冗余解决方案
Secure and intelligent driving
redundancy solution



基于热泵的热管理系统解决方案
Heat-pump-based thermal
management system solution



低压智能供配电解决方案
Low-voltage intelligent power supply
and distribution solution

通用模块
Universal Modules



能量仓
Energy Unit

- CTC-LFP磷酸铁锂
  CTC-LFP Lithium Iron Phosphate
- CTC-NCM三元锂
  CTC-NCM Lithium Ternary
- CTC-SIB钠离子
  SIB(Sodium Ion Battery)
- 智能换电
  Intelligent Battery Swapping



电驱动
Electric Drive

- 400V
- 800V SiC 集中式
  800V SiC Centralized
- 800V SiC 分布式
  800V SiC Distributed



热管理
Electric Drive

- 多通阀&PTC+
  基础算法
  Multi-way Valve&PTC+ Basic Algorithm
- 热泵集成模块+
  智能控制算法
  Heat Pump Integration Module+
  Intelligent Control Algorithm



SICC
Smart Integrated Chassis Controller

- Bas
- Pro
- Max

标准接口
Standard Interface

- 机械接口
  Mechanical Interfaces
- 电气接口
  Electrical Interfaces
- 软件接口
  Software Interfaces

高能一体
坐享「集」成
High-Energy Integrated All-in-One Design

基于CTC技术 各子系统高度集成
Based on CTC technology, each subsystem is highly integrated

更长续航，更加省电
Longer range, more energy efficient

更大空间，更加安全
More space, more safety

创新多元
随「机」应变
Adaptable Configuration for Diverse Scenarios

上下解耦，解放多元可能
Top hat decoupled from chassis
Emancipating Multiple Possibilities

缩短研发周期，节约研发资源
Accelerate R&D timelines and optimize resources

积累测试验证赋能场景定义汽车
Cumulative Test Validation Enabling Scenario-Defined Vehicles

自由匹配
软硬兼「适」
Customizable Software & Hardware Compatibility

灵活套件拓展，自选解决方案
Flexible suite expansion, custom solutions

宁德时代磐石底盘解决方案套件
CATL Bedrock Chassis modular solution kits

软硬件及功能的灵活可拓展
The flexibility and scalability of CATL Bedrock Chassis hardware and software and features

CATL 时代智能



扫码关注

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