# 解决方案
THE SOLUTION

## 汽车动力系统试验台解决方案
Automotive powertrain test bed solution

### 不同的试验台 Different Test Bed

- 高速电机试验台
- 动力总成试验台
- 整车试验台/底盘测功机
- 大功率齿轮箱测试台
- 其他试验台
- High speed Emotor test bed
- Powertrain test bed
- Vehicle test bed/ chassis dynometer
- High power gearbox test bed
- Other test bed

### 试验台模块化集成 Modular Integration Of Test Bed

- 交流电力测功机
- 高性能变频器
- 高精度扭矩测量
- 数据采集系统
- Ac motor dynamometer
- High performance converter
- High precision torque measurement
- Data acquisition system

### 技术服务 Technical Service

- **自动化控制系统** automation system
- Ctest AUS
- Ctest RT
- Ctest EOL
- Ctest SIM

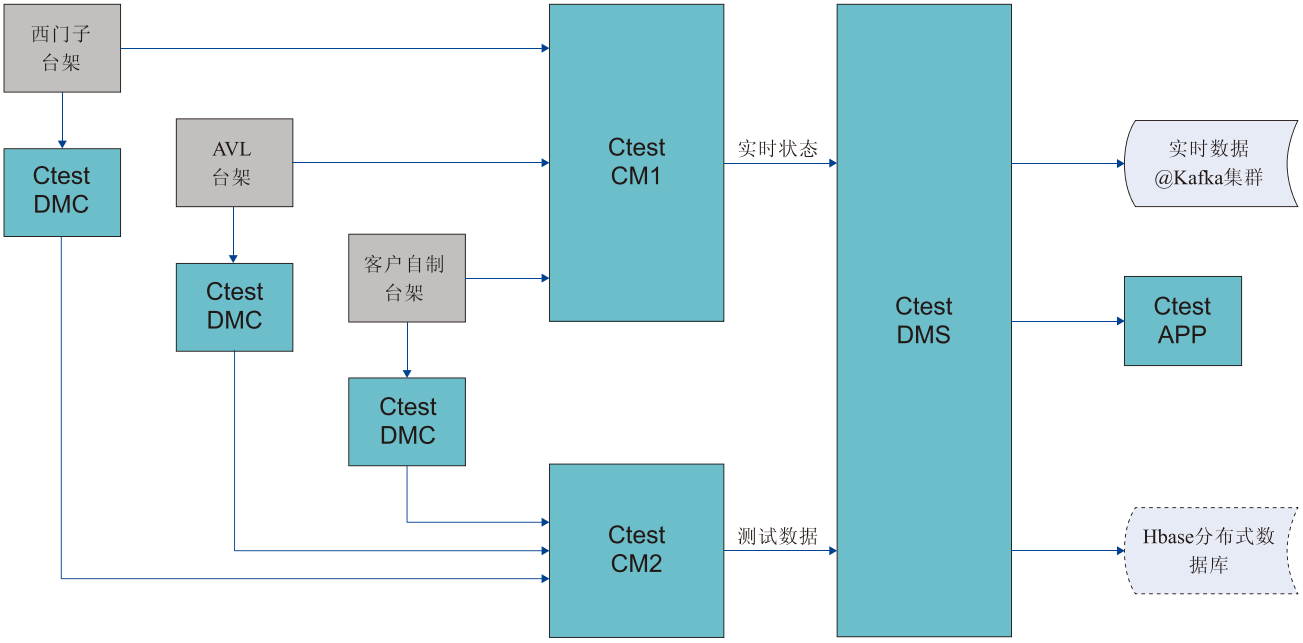
- 安装调试
- 机械制造与维修
- 工程设计
- 电气成套
- 售后服务与维护保养
- Installation and commissioning
- Mechanical manufacturing and maintenance
- Engineering design
- Electrical integration
- After sales service and maintenance

## 系统集成技术
System Integration Technique

| | |
|---|---|
| 工控机 IPC | SIMATIC IPC |
| PLC控制器 PLC controller | SIMATIC S7-300/400, S7-1200/1500-F, ET200 |
| 实时控制器 Real time controller | Ctest RT |
| 仿真技术 Simulation technology | Matlab Simulink，SIEMENS LMS Amesim |
| HMI | SIMATIC OP, MP, KP, TP |
| 网络通讯 Network communication | ETHERNET, PROFIBUS, PROFINET |
| 变频器 Frequency converter | SINAMICS S120 / S150, ABB |
| 测功机 Dynamometer | 1SH8, 1PH8, AKH, SCHORCH, K&A, Parker, Baldor, ABB |

# 实验室管理系统

Test center management system

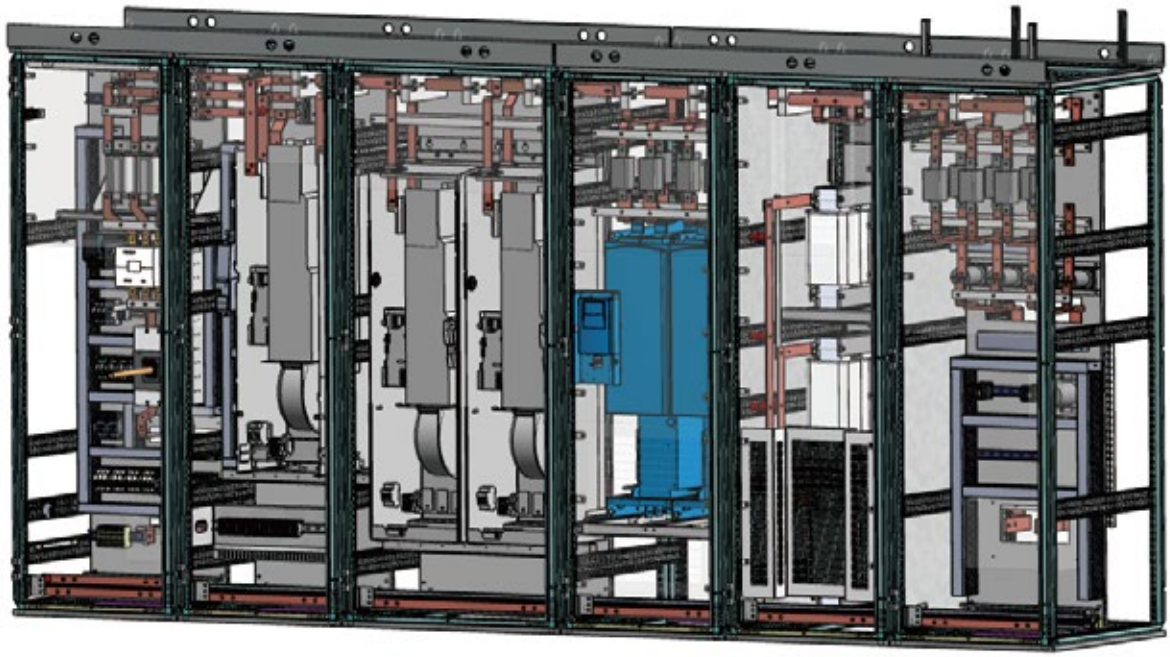



适用于试验中心多台试验设备的实时状态和试验数据的集中监控与管理，同时具有试验流程管理、试验档案管理、DVP过程管理、设备管理、样品管理、计量器具管理等功能。

It is suitable for the centralized monitoring and management of the real- time status and test data of several test equipment in the test center,with testing process management, the test results management, the DVP process management, the equipment management, the sample management, the measurement instrument management and so on.

# Ctest 测控软件
## Ctest Measure And Control Software

# 电气结构设计
## Electrical Structure Design



# 电气成套
## Assembly Of Electric Equipment

采用专业的3D软件，对柜体、钣金件、铜排等进行设计，充分考虑柜体散热、振动、EMC等。

Professional 3D software is used to design the cabinet, sheet metal parts, copper bars, etc., fully considering the cabinet heat dissipation, vibration, EMC, etc.