

# Shanghai Jiyu Technology Co., Ltd.

## Redundant Drive-By-Wire System & Chassis Provider



*Offering Super Running Shoes for Autonomous Driving!*

Xia Cunliang (Axel), Co-Founder  
Email: [xiacunliang@drivitech.com](mailto:xiacunliang@drivitech.com)  
TEL: (+86) 150 215 77 414

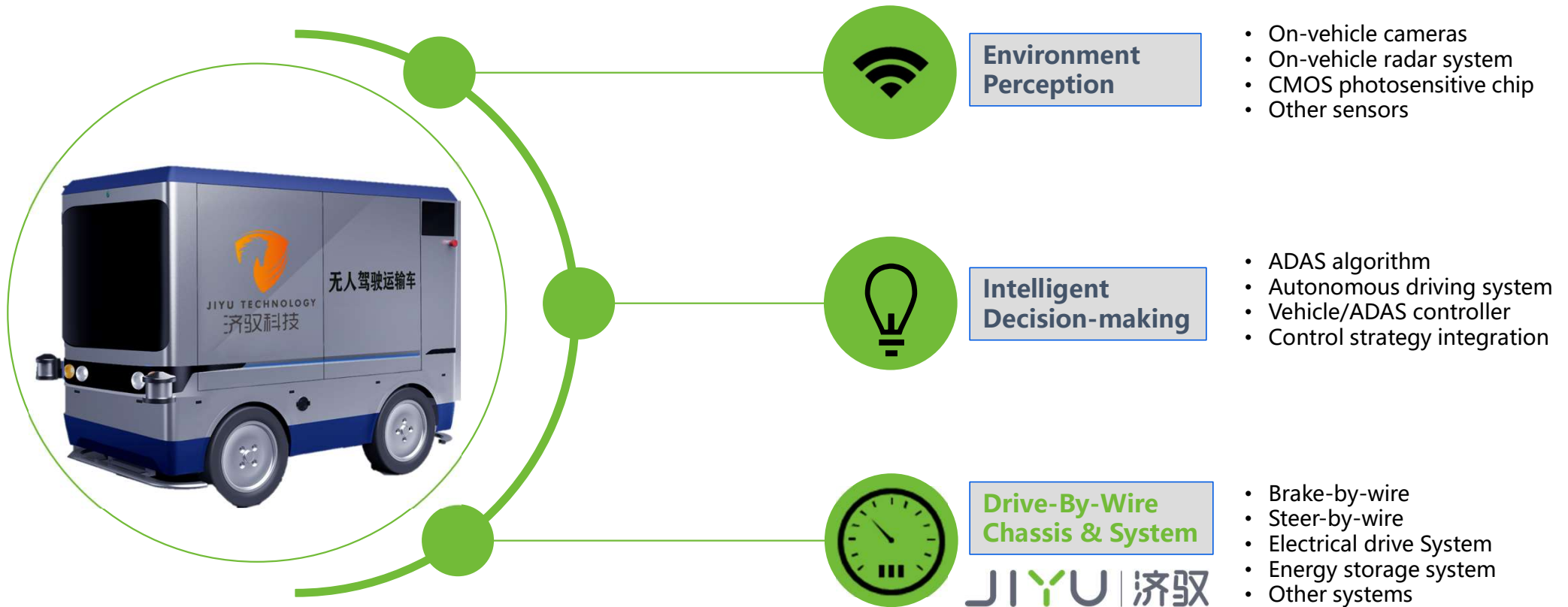
<https://www.youtube.com/@JIYU-Chassis-DriveByWire>



- 01 Company Introduction
- 02 Product Portfolio
- 03 Cooperative Partners & Application Cases



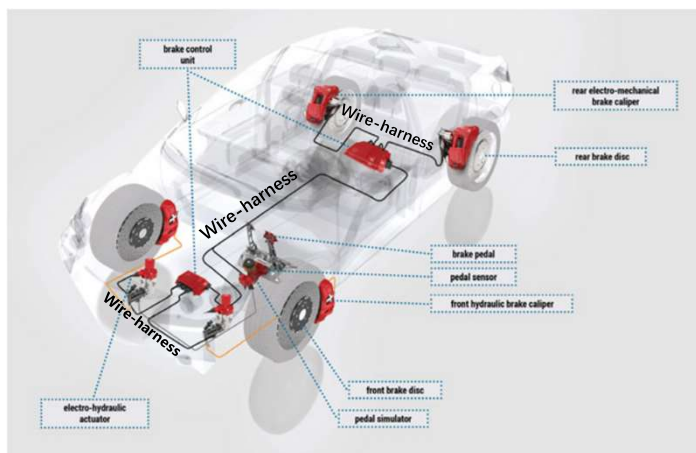
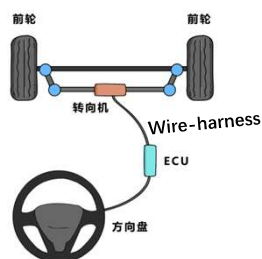
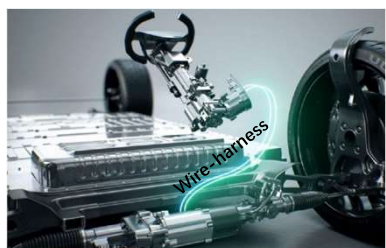
# Company Introduction





## Understanding of By-Wire-Chassis

Mechanical connection replaced by **Wire-harness**:



& Driving/shifting/lamp/horn...by-wire.



Controlled by  
Wires/Signals

**By-Wire-Chassis**  
(JIYU Tech Focus Area)

Enabling



Joy of driving.  
(Tunable & Fast Response)

Comfort & Safety.

Intelligent vehicles.

Autonomous Driving.

Shanghai JIYU Technology Co., Ltd. was established on July 14<sup>th</sup> 2020, focusing on the R&D and production of the driverless chassis-by-wire for autonomous driving. The founding team mainly comes from Tongji University, Delphi and Volvo Cars.

**Shining Fairy S series, Magic Carpet M series, Legendary Heracles L series, & Combat Wings W series**, as Four series of by-wire chassis, have been put on market, covering unmanned logistics, unmanned distribution, unmanned disinfection and sterilization, unmanned special vehicles, etc., which have been applied in multiple scenes and put into long-term operation.

JIYU Technology provides precise and adaptive **Super Running Shoes** for autonomous driving.

### Four series of X-by-wire chassis products:

Shining Fairy S series,



Magic Carpet M series,



Legendary Heracles L series,



Combat Wings W series.



Jiangsu Province  
Manufacturing base



Shanghai  
R&D center



**罗永昌**  
**Mr. Luo Yongchang, Founder and CEO**

Founding partner of Aoteka New Energy Technology Co., LTD.  
Founding partner of Shanghai Tongyu Automobile Technology Co., LTD.

Technical Strengths:

15+ years of core parts development experience for new energy vehicle chassis;  
Successfully developed and launch support for VCU, MCU, BMS, ACC, PTC, EHB, EPB;  
10 cases granted for invention/utility patents.



**孙永正**  
**Mr. Sun Yongzheng, PhD, Partner**

EMS Development engineer in Delphi China R&D Center.  
Senior Manager of VCU software Development in Auteca New Energy Technology Co., LTD.

Technical Strengths:

15+ years SW & algorithm development experience;  
Expert in engine EMS software development & calibration; Proficient in hybrid HCU software development;  
Skilled in VCU software development for BEV & NEV;  
Experienced in model-based development process and deployment for ISO 26262 function safety.



**夏存良**  
**Mr. Xia Cunliang, Partner**

Chassis engineer of Ford China R&D Center (Nanjing) Co., Ltd;  
Chassis manager (Brakes & Tyres) at Volvo Car China R&D center.

Technical Strengths:

17+ years' experience in chassis development, with dedicated 12+ years in brake system development (EHB/ESC/EPB/One-Box & others);  
Profound architecture expertise for brake, steering, suspension and wheels/tyres development.  
Familiar with legal requirements for global markets within chassis area.



Dozens of invention patents, utility model patents and software copyrights have been obtained, in the area of by-wire chassis core technologies.

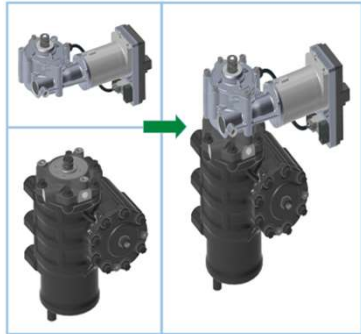




## Product Portfolio

Drive-By-Wire Systems & Drive-By-Wire Chassis

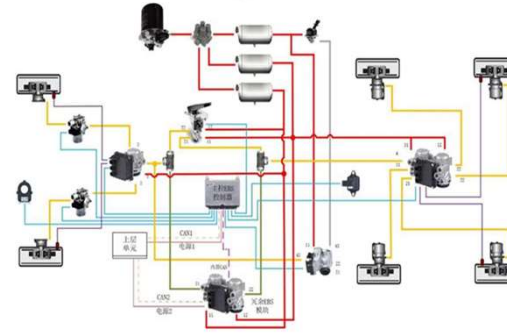
# Redundant Steering & Brake & other X-By-Wire Systems



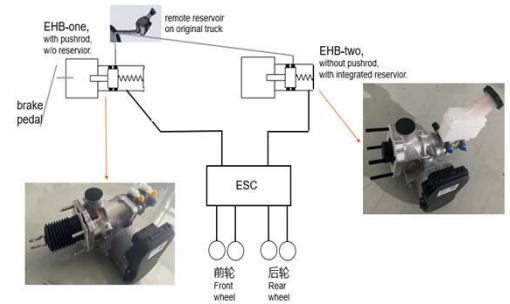
**Redundant** By-Wire-EPS/EHPS, for heavy-duty commercial vehicles



**Redundant** By-Wire-EPS, for light/mid-duty vehicles, with Road Force Feedback



**Redundant** Air-Brake-By-Wire, for mid/heavy-duty vehicles



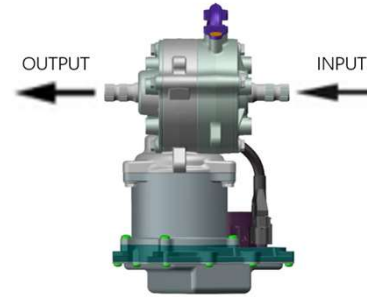
**Redundant** Brake, with one/two EHBs & ESC, for mid-duty vehicles



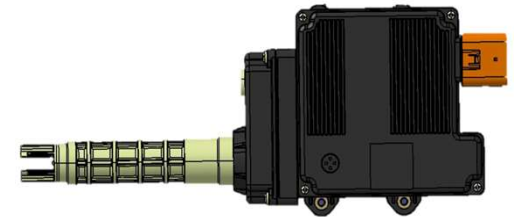
VCU: Vehicle Control Unit



EHB, Electrical-Hydraulic Brake Module



By-Wire Column-EPS, Drive-By-Wire trucks adaption



Cable-EPB, Cable controlled Electrical Parking Brake Unit



- **In-house developed & produced VCU, mass production for passenger cars;**
- >0.5M pcs of mass production for OEM until now, w/o critical issues;
- Supports UDS (Unified Diagnostic Services) and Bootloader;
- Support rapid prototype development, automatic code generation, hardware in the loop testing, calibration and verification;
- 2 channels CAN with communication function;
- 2 channels CAN communication with wake up function;
- MCU maximum dominant frequency 200MHz.

**Technical parameters as follows:**

**Electrical test:**

Normal voltage: 12VDC & 24VDC

Specification: ISO16750-2 (GBT 28046-2)

**EMC (Electro Magnetic Compatibility) test:**

Electrostatic discharge test (ESD): ISO10605 (GBT 19951)

Transient disturbance/interference: ISO 7637-2 (GB 21437-2)/ISO 7637-3

Electromagnetic disturbance/interference: CISPR 25 (GB 18655)/ISO 11452

**Dustproof and waterproof grade:**

Seal class: IP 67

Specification: ISO16750-5 / ISO 20653 (GB 28046-4)

**Mechanical vibration & shock:**

Vibration, shock and drop tests: ISO 16750-3 (GBT 28046-3)

**Climatic environment test:**

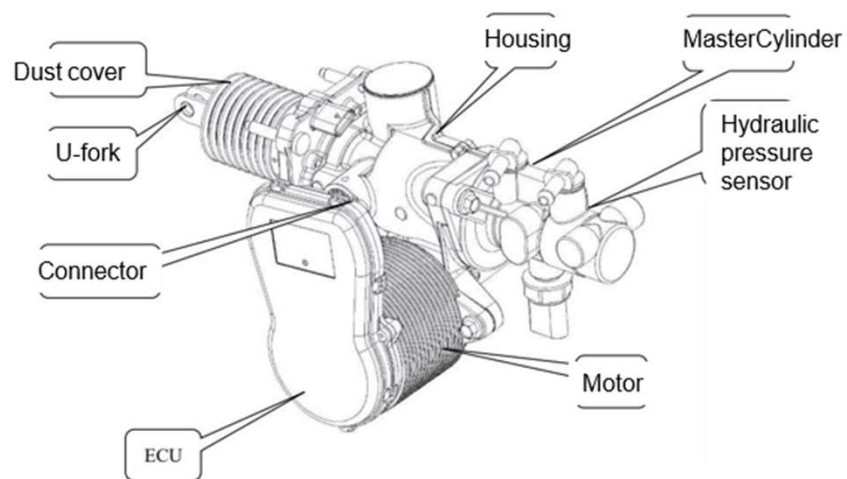
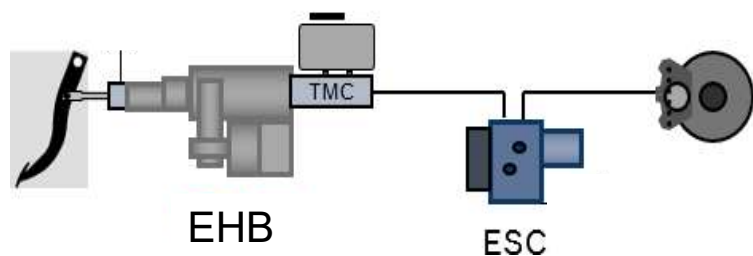
Temperature parameters: storage (-40~125 °C), operating (-40~85 °C)

Specification: ISO 16750-4 (GBT 28046-4)

Note: If required operating temperature exceeds 85 degrees, please contact the vendor directly.



## Redundant Brake-By-Wire, EHB + ESC.



EHB (Electro-Hydraulic Brake Module)

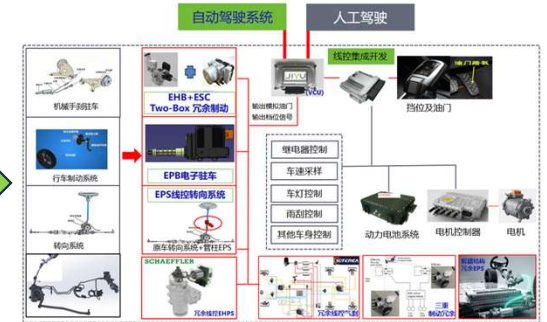


- In-house developed EHB, & in-house algorithm development;
- Mass production for 30+ OEMs, conventional cars & AD-cars;
- Dedicated design with bigger power for light/mid-duty pickup;
- Redundency brake together with EHB and original ESC;
- Full-time regenerative brake for reduced CO2 & increased range;
- Supports UDS (Unified Diagnostic Services) and Bootloader;
- Control accuracy  $\leq 1\text{bar}$ ; pressure building time (10%-->90%)  $\leq 100\text{ms}$ ;
- Pressure relief time (90% to 10%)  $\leq 150\text{ms}$ .

EHB (Electro-Hydraulic Brake Module) parameters	
12V power supply	9V~16V
24V power supply	18V~32V
Working temperature	-40~125 °C
Maximum pressure build-up	>14MPa
10MPa pressure build-up time	~200ms
TTL (Time-To-Lock)	~250ms
Dimension (mm)	357*222*185
Mass (kg)	5.9kg
Waterproof grade	IP67



## 支持L4级自动驾驶的冗余线控底盘系统解决方案



- 1, The EBS system redundancy function is mainly composed of: a redundant EBS module, two double-way check valves and wiring harness;
2. When the basic EBS ECU fails, the upper unit supplies power to the redundant EBS module and sends braking instructions through the standby power supply 2 and CAN2. The redundant EBS module will replace the foot valve, and the standby braking system works as the traditional braking system to provide air control signals for the front and rear axle modules and trailer modules.
- 3, The basic EBS ECU and redundant EBS module, also meet the EBS internal CAN communication, monitoring and switching.

## Redundant Steering-By-Wire, both upper & lower steering.

### Front Steering Actuator

#### Lead Bar

- Lead Screw Length: customizable
- Lead Screw Diameter:  $\varnothing 26, \varnothing 28, \varnothing 30, \varnothing 32$
- Virtual track-angle ratio
- Lead Screw Travel: (according to spec.)

#### Motor/PPK ASSy

- 6-phase redundant motor
- BLAC SPM / (8 poles, 12 sockets)

#### BNA Mechanism

- Tube structure
- Ball screw travel: 7mm or 8mm
- Pulley ratio: customizable



#### IBJ & OBJ

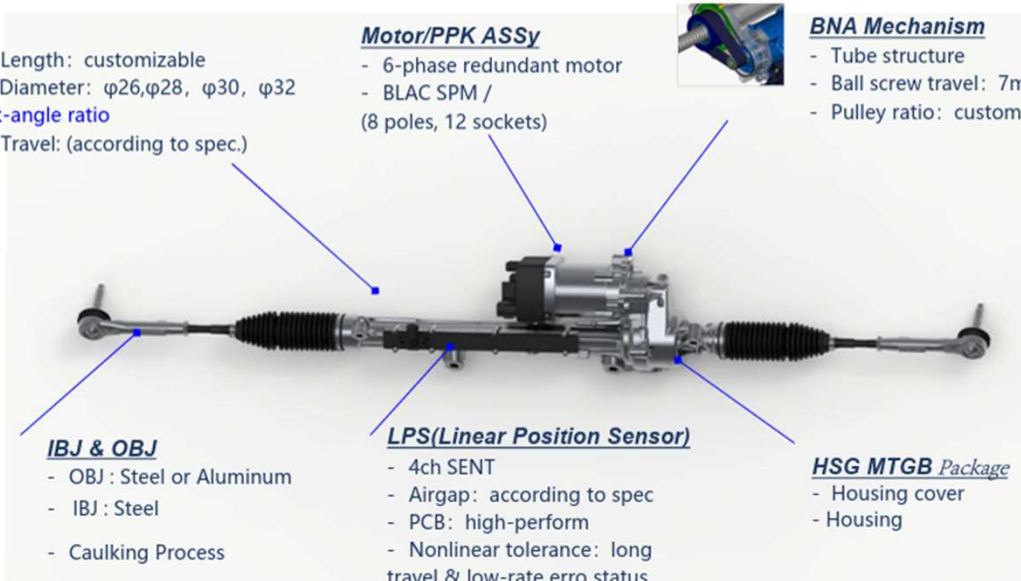
- OBJ : Steel or Aluminum
- IBJ : Steel
- Caulking Process

#### LPS(Linear Position Sensor)

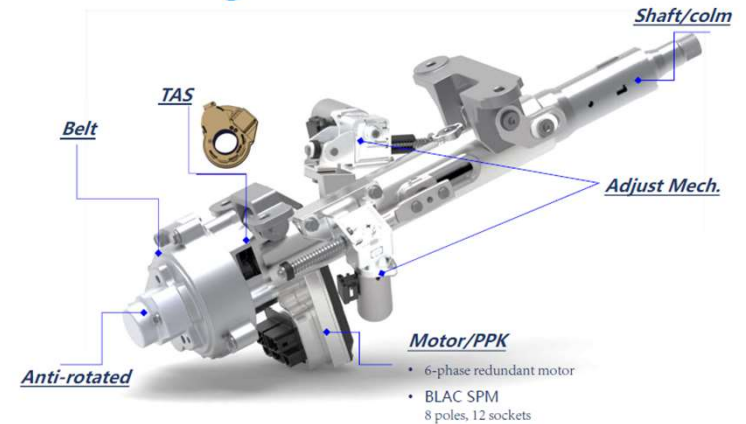
- 4ch SENT
- Airgap: according to spec
- PCB: high-perform
- Nonlinear tolerance: long travel & low-rate erro status.

#### HSG MTGB Package

- Housing cover
- Housing



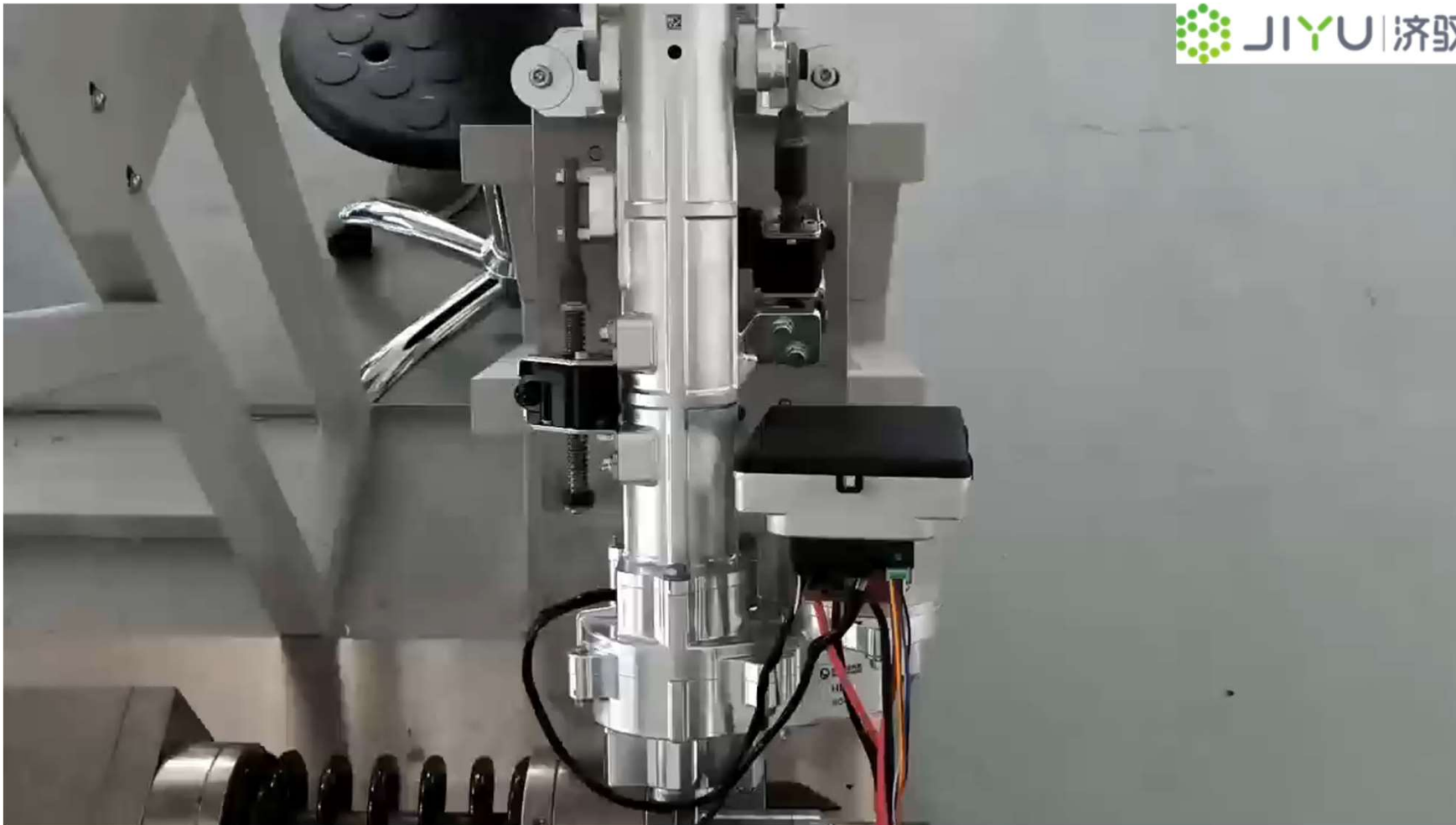
### Handing Feedback Actuator



- ❑ Two ECU Circuits Independent Design;
- ❑ Dual Power chipset & Dual PMIC to secure safe power supply;
- ❑ Dual MCU Chipsets, no primary or secondary difference;
- ❑ Dual Motor Control IC, to secure its robotness;
- ❑ Dual Motor position check, for reliable position check;
- ❑ Dual-redundant & 4 channel LPS, offering SENT signal for two ECUs respectively;
- ❑ Support ASIL D for fulfilment of ISO26262;
- ❑ Ambient Temperature:  $-40^{\circ}\text{C} - 125^{\circ}\text{C}$ ;
- ❑ Water Proof: IP69K.

## Redundant Steering-By-Wire, In-house Developed System

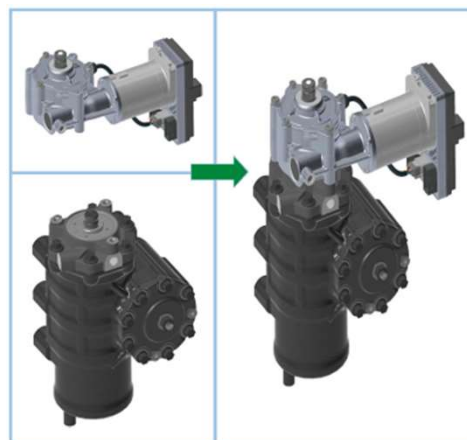
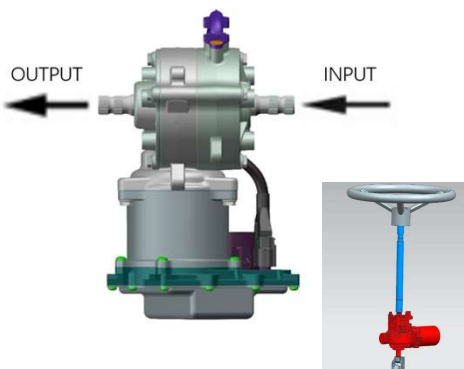
JYU | 济驭



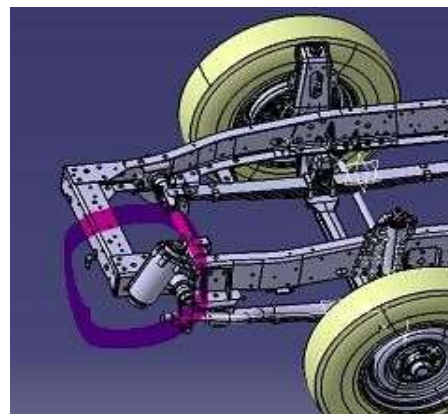
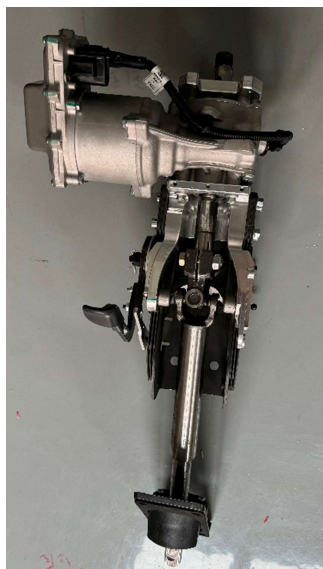
- ❑ Two ECU Circuits Independent Design;
- ❑ Dual Power chipset & Dual PMIC to secure safe power supply;
- ❑ Dual MCU Chipsets, no primary or secondary difference;
- ❑ Dual Motor Control IC, to secure its robustness;
- ❑ Dual Motor position check, for reliable position check;
- ❑ Dual-redundant & 4 channel LPS, offering SENT signal for two ECUs respectively;
- ❑ Support ASIL D for fulfilment of ISO26262;
- ❑ Ambient Temperature: -40°C - 125°C;
- ❑ Water Proof: IP69K.



# In-house Steering-By-Wire Integration & Calibration



Circular ball type for trucks,  
**Redundant** EPS/EHPS.

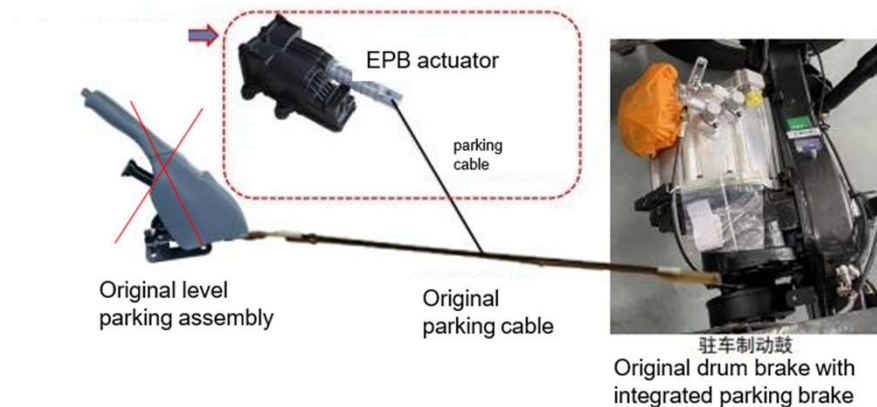
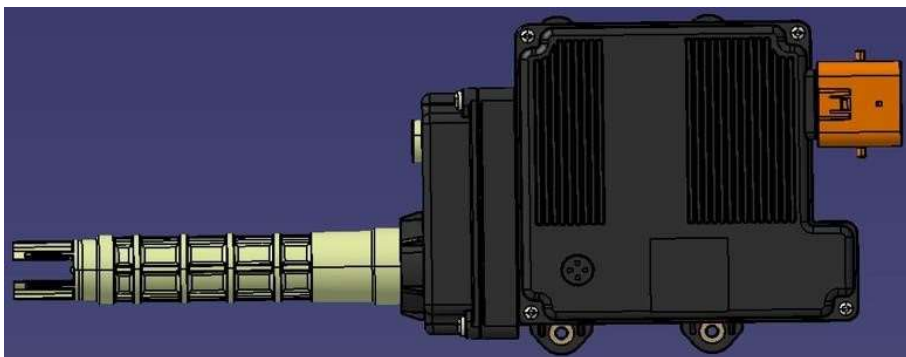


适配车辆 APPLICATIONS	UTV/无人车 UTV/Autonomous vehicle
结构型式 TYPE	C-EPS
最大供电电流 RATED CURRENT	80A@DC12V
工作电压 OPERATING VOLTAGE	DC12V
最大输出扭矩 MAXIMUM OUTPUT TORQUE	54Nm
转向轴最大载荷 (参考) STEERING AXLE LOAD	850Kg
防护等级 PROTECTION LEVEL	IP67
传感器类型 SENSOR TYPE	TAS
角度控制精度 ANGLE CONTROL ACCURACY	1°
响应时间 RESPONSE TIME	< 50ms

内容 Contents	性能参数 Performance Parameters
前轴载荷 front axle load	8000kg
最大液压输出扭矩 max torque output by oil	8800Nm (90% efficiency @ 17Mpa)
最大油压 max oil pressure	17Mpa
最大流量 maximum flow	25L/min
HPS传动比 HPS ratio	22.2~26.2
电机最大扭矩 max motor torque	130Nm (8Nm*20.5*80%)
工作电压 Voltage	24V (18~32V)
传感器 TAS Sensors	4+2
电机 Electrical Motors	6相双绕组 6-phase double winding
控制器 ECU Controller	双ECU冗余 Dual ECU redundancy
电源供电 Power supply	双供电冗余 Dual redundant power supply
CAN 通讯 CAN communication	双CAN通讯冗余 Dual CAN redundant communication
重量 weight	53kg

## In-house developed Cable-EPB Actuator

- In-house developed cable-EPB, in-house developed control algorithm integrated in EPB unit;
- Perfect solution for parking-by-wire on heavy-duty commercial vehicles.



### EPB actuator parameters

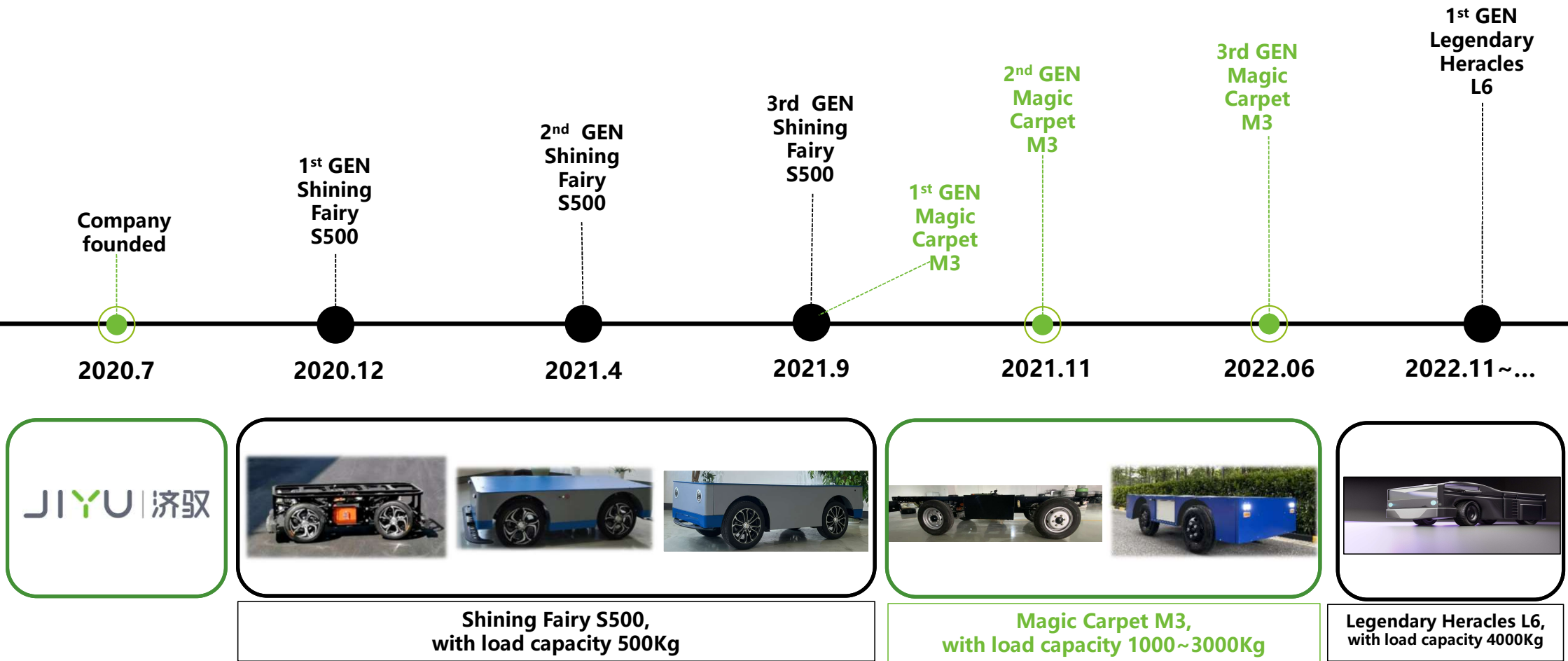
24V power supply	18V~32V
Working temperature	-40~125 °C
Maximum pulling force	2500N@27V
Response time	1600N 30mm ≤1.5s
Mass (kg)	<b>1.6kg</b>
Waterproof grade	IP67

### Typical EPB Functions:

1. Manual Parking:
2. Manual Release:
3. Automatic Parking:
4. Automatic Release:
5. External parking and external release:
6. Limp-home mode:
7. Maintenance Mode:
8. Dynamic and static diagnostics of vehicles status;
9. ....

## Drive-By-Wire Chassis Development Milestones

JYU | 济驭





## Drive-By-Wire Chassis Product Portfolio



### Shining Fairy S Series

Payload  $\leq 500\text{kg}$



### Magic Carpet M Series

M1A payload  $\geq 1000\text{kg}$



M1B platform payload  $\geq 1200\text{kg}$   
Specifically developed for mobile  
charging and energy storage

### Legendary Heracles L series

Payload 3~5 tons



### Combat Wings W Series

Four-wheel distributed  
drive skateboard chassis



Unmanned  
patrolling



Unmanned grocery  
retail & delivery



Unmanned delivery



mobile charging  
and energy storage



Unmanned transportation  
for heavy load parts



Autonomous driving algorithm  
verification, Distributed drive algorithm  
research, Turning to redundant algorithm  
research, Research on four-wheel  
independent braking algorithm. . .

## Chassis Platform Development & Delivery Milestones



**By-Wire-Chassis delivery for autonomous grocery transportation vehicle**



2020.12

**Chassis-By-Wire for autonomous grocery delivery vehicle**



2021.4

**By-Wire-Chassis update & adaption for Deeproute Pickup**



2021.9

**Chassis-By-Wire for autonomous disinfection vehicle**



2021.11

**By-Wire-Chassis update & adaption for Robotaxi AD**



2022.06

**By-Wire-Chassis for autonomous grocery delivery vehicle**



2022.11~...

**Shining Fairy S500-Chassis**



**Shining Fairy S500-Chassis**



**4.5 tons pickup X-by-wire Chassis**



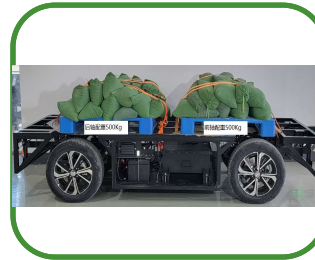
**Magic Carpet M3-Chassis**



**Passenger Car X-by-wire Chassis**



**Magic Carpet M3-Chassis**







Chassis parameters with 300kg load capacity	
Chassis size (L*W*H) (mm)	1100*740*400 (customizable)
Wheelbase (mm)	600 (customizable)
Chassis weight (kg)	160
Load capacity (kg)	300
Min ground clearance (mm)	70
Max speed (km/h)	5
Max gradeability with full load	20% (11.31°)
Propulsion	Rear drive
High voltage battery	Lithium Iron Phosphate
Battery voltage (V)	72 or 48
Communication	CAN2.0B

### Main application Scenarios:



unmanned delivery & grocery retail



unmanned disinfection & patrol

**Shining Fairy S300 Series:**  
High Frequency,  
Rigid demand,  
Ready for mass production.



## Product -- Shining Fairy S500, Small-Size X-By-Wire Chassis

JYU | 济驭



### Chassis parameters with 500kg load capacity

Chassis size (L*W*H) (mm)	2120*900*655 (customizable)
Wheelbase (mm)	1000~1600 (customizable)
Chassis weight (kg)	350
Load capacity (kg)	500
Power Supply (V)	72
Peak power of electrical Motor (kw)	6
Range (km)	120
Max speed (km/h)	35
Max gradeability with full load	20% (11.31°)
Parking slope	20% (11.31°)
Hydraulic brake pressure control accuracy (bar)	≤1
Steering angle control accuracy (°)	≤1
Wading height (mm)	≥120
Propulsion	Rear drive
Front brake	Disc brake
Rear brake	Disc brake
Parking brake	Electrical parking brake
Tyre pressure monitoring	Direct TPMS
Communication	CAN2.0B

### Main application scenarios



unmanned delivery & grocery retail



unmanned disinfection & patrol

Shining Fairy S500 Series:  
High Frequency,  
Rigid demand,  
Ready for mass production.



## Product -- Magic Carpet M1A-1T, Mid-Size X-By-Wire Chassis

JYU | 济驭



### Chassis parameters with 1 ton load capacity

Chassis size (L*W*H) (mm)	3300*1200*700 (customizable)
Wheelbase (mm)	2000 (customizable)
Chassis weight (kg)	800
Load capacity (kg)	1000
Min ground clearance (mm)	120
Parking slope	20% (11.31°)
Max gradeability with full load	20% (11.31°)
Min steering radius (m)	4.5
Propulsion	Rear axle drive
Front brake	Disc brake
Rear brake	Disc brake
Parking brake	Electrical parking brake
Peak power of electrical Motor (kw)	15
Peak torque of electrical Motor (Nm)	90
Range with full load (km)	120
Max speed (km/h)	40
High voltage battery	Lithium Iron Phosphate
Battery voltage (V)	73.6
Battery capacity (Ah)	280
Communication	CAN2.0B

### Main application scenarios



unmanned delivery,  
retail & disinfection

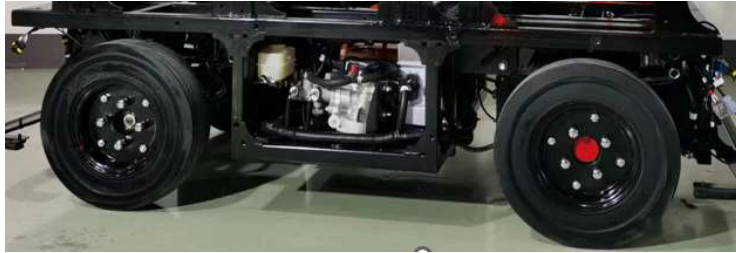


unmanned towing & bus.

**Magic Carpet M series:**  
Customized X-by-wire  
chassis with 1~3 tons load.

## Product -- Magic Carpet M1B-1.2T, Mid-Size X-By-Wire Chassis

JYU | 济驭



### Chassis parameters with 1.2 ton load capacity

Chassis size (L*W*H) (mm)	1655*850*470 (customizable)
Wheelbase (mm)	1100 (customizable)
Chassis weight (kg)	250
Load capacity (kg)	1200
Min ground clearance (mm)	100
Parking slope	20% (11.31°)
Max gradeability with full load	20% (11.31°)
Min steering radius (m)	2.5
Propulsion	Rear axle drive
Front brake	Drum brake
Rear brake	Drum brake
Parking brake	Electrical parking brake
Peak power of electrical Motor (kw)	6
Range with full load (km)	Depending on battery capacity
Max speed (km/h)	35
High voltage battery	Lithium Iron Phosphate
Battery voltage (V)	72V /320V / 800V
Battery capacity (Ah)	customizable
Communication	CAN2.0B



### Main application scenarios



unmanned delivery,  
retail & disinfection



unmanned towing & bus.

**Magic Carpet M series:**  
Customized X-by-wire  
chassis with 1~3 tons load.

## Product -- Legendary Heracles L3-3T, Mid-Size X-By-Wire Chassis

JYU | 济驭



### Chassis parameters with 3 tons load capacity

Chassis size (L*W*H) (mm)	3700*1660*900 (customizable)
Wheelbase (mm)	2000
Chassis weight (kg)	1200
Load capacity (kg)	3000
Min ground clearance (mm)	230
Parking slope (%)	20% (11.31°)
Max gradeability with full load (%)	20% (11.31°)
Min steering radius (m)	4.8
Propulsion	Rear axle drive
Front brake	Drum brake
Rear brake	Disc brake
Parking brake	Electrical parking brake
Peak power of electrical Motor (kw)	36
Peak torque of electrical Motor (Nm)	160
Range with full load (km)	60
Max speed (km/h)	25
High voltage battery	Lithium Iron Phosphate
Battery voltage (V)	96
Battery capacity (Ah)	270
Communication	CAN2.0B

### Main application scenarios



unmanned delivery,  
retail & disinfection



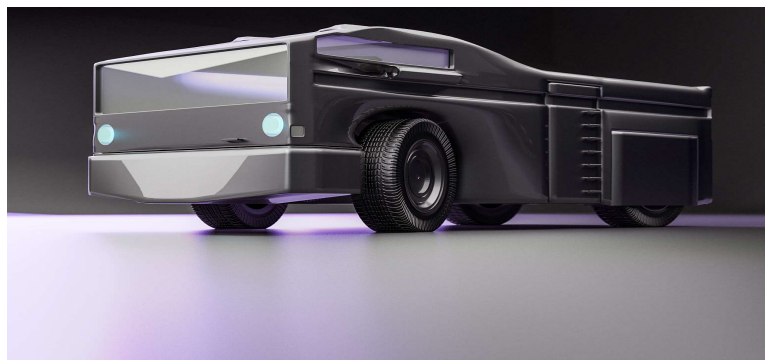
unmanned towing & bus.

**Magic Carpet M series:**  
Customized X-by-wire  
chassis with 1~3 tons load.



## Product -- Legendary Heracles L6, Large-Size X-By-Wire Chassis

JYU | 济驭



### Chassis parameters with 5 tons load capacity

Chassis size (L*W*H) (mm)	5000*2000*900
Wheelbase (mm)	2400
Chassis weight (kg)	2000
Load capacity (kg)	5000
Min ground clearance (mm)	230
Parking slope	20% (11.31°)
Max gradeability with full load	20% (11.31°)
Min steering radius (m)	5
Propulsion	Front & Rear axle drive
Front brake	Drum brake
Rear brake	Drum brake
Parking brake	Electrical parking brake
Peak power of electrical Motor (kw)	40
Peak torque of electrical Motor (Nm)	300
Range with full load (km)	60
Max speed (km/h)	15
High voltage battery	Lithium Iron Phosphate
Battery voltage (V)	350
Communication	CAN2.0B

### Main application scenarios



unmanned delivery,  
retail & disinfection



unmanned towing & bus.

**Legendary Heracles L6 series:**  
Customized X-by-wire  
chassis with 4 tons load.



## Combat Wings W Series, Skateboard Chassis

Chassis size (L*W*H) (mm)	4800*1850*1660 (customizable)
Wheelbase (mm)	2875 (customizable)
Chassis weight (kg)	1200
Load capacity (kg)	800
Min ground clearance (mm)	158
Parking slope	20% (11.31°)
Max gradeability with full load	20% (11.31°)
Min steering radius (m)	Only front steering: < 6m; Front & Rear Steering: < 3.5m.
Propulsion	Four In-wheel motor
Steering	Front and/or Rear Steering
Front brake	Disc brake
Rear brake	Disc brake
Parking brake	Electrical parking brake
Peak power of electrical Motor (kW)	6kW for each in-wheel motor, 24kW in total.
Range with full load (km)	100
Max speed (km/h)	80
High voltage battery	Lithium Iron Phosphate
Battery voltage (V)	73.6
Battery capacity (Ah)	260 Ah or 350 Ah
Communication	CAN2.0B

## Key Features:

**1) Independent distributed drive,** with four in-wheel motors.

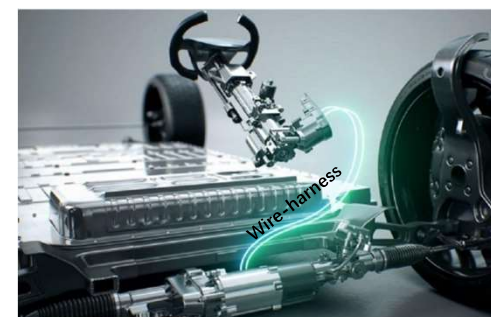
**2) Three steering modes:**

- 2.1) Only the front wheels steering;
- 2.2) Steering in same direction for front and rear steering wheels;
- 2.3) Steering in opposite direction for front and rear steering wheels.

**3) Three driving modes:**

- 3.1) Remote control mode;
- 3.2) Unmanned driving mode;
- 3.3) Manual driving mode.

**4) Decoupled Upper Steering Column & Lower Steering Gear.**





无人驾驶移动充电及分布式储能机器人



分布式驱动线控底盘



麦克纳姆轮线控底盘



3吨载重 线控底盘

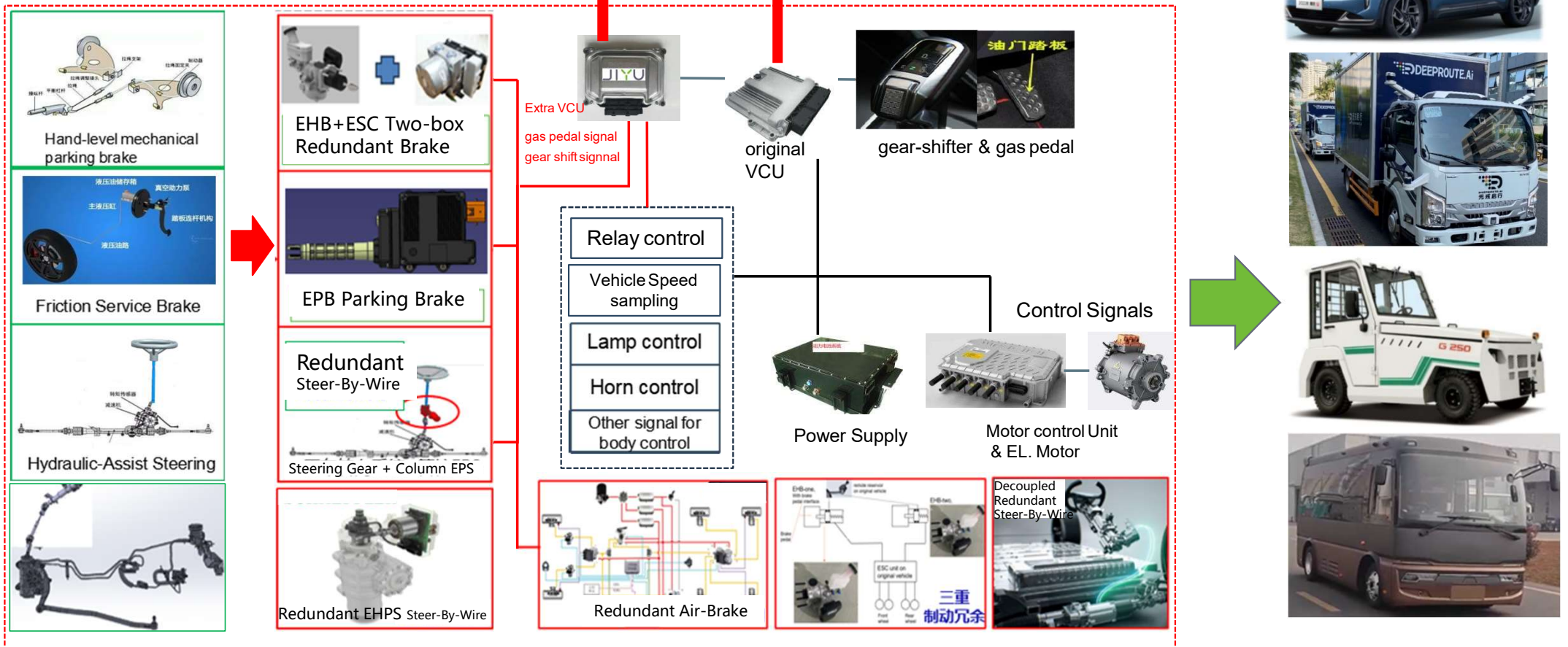




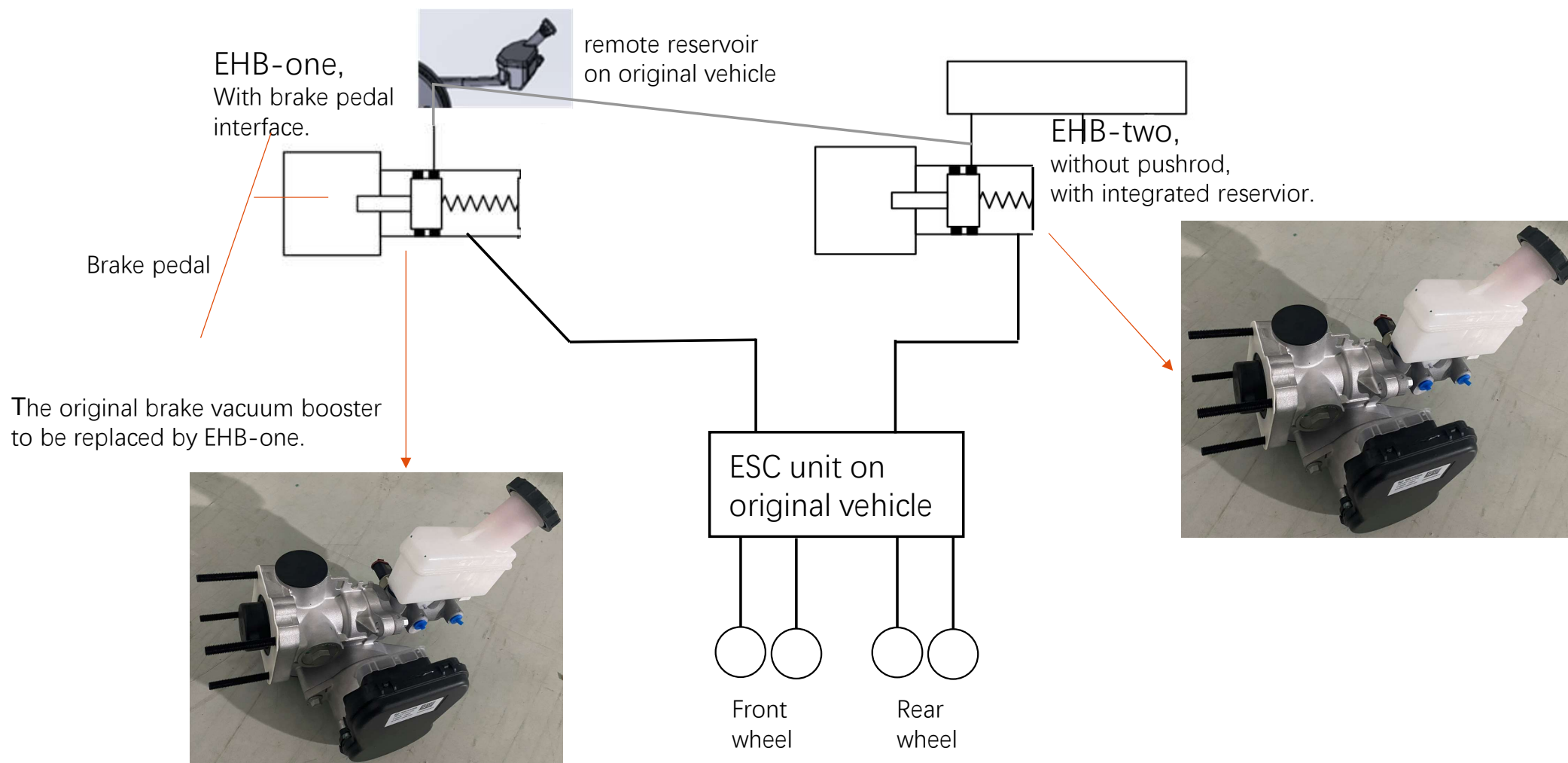
# Drive-By-Wire Chassis upgrade & adaption

## L4 Autonomous Driving

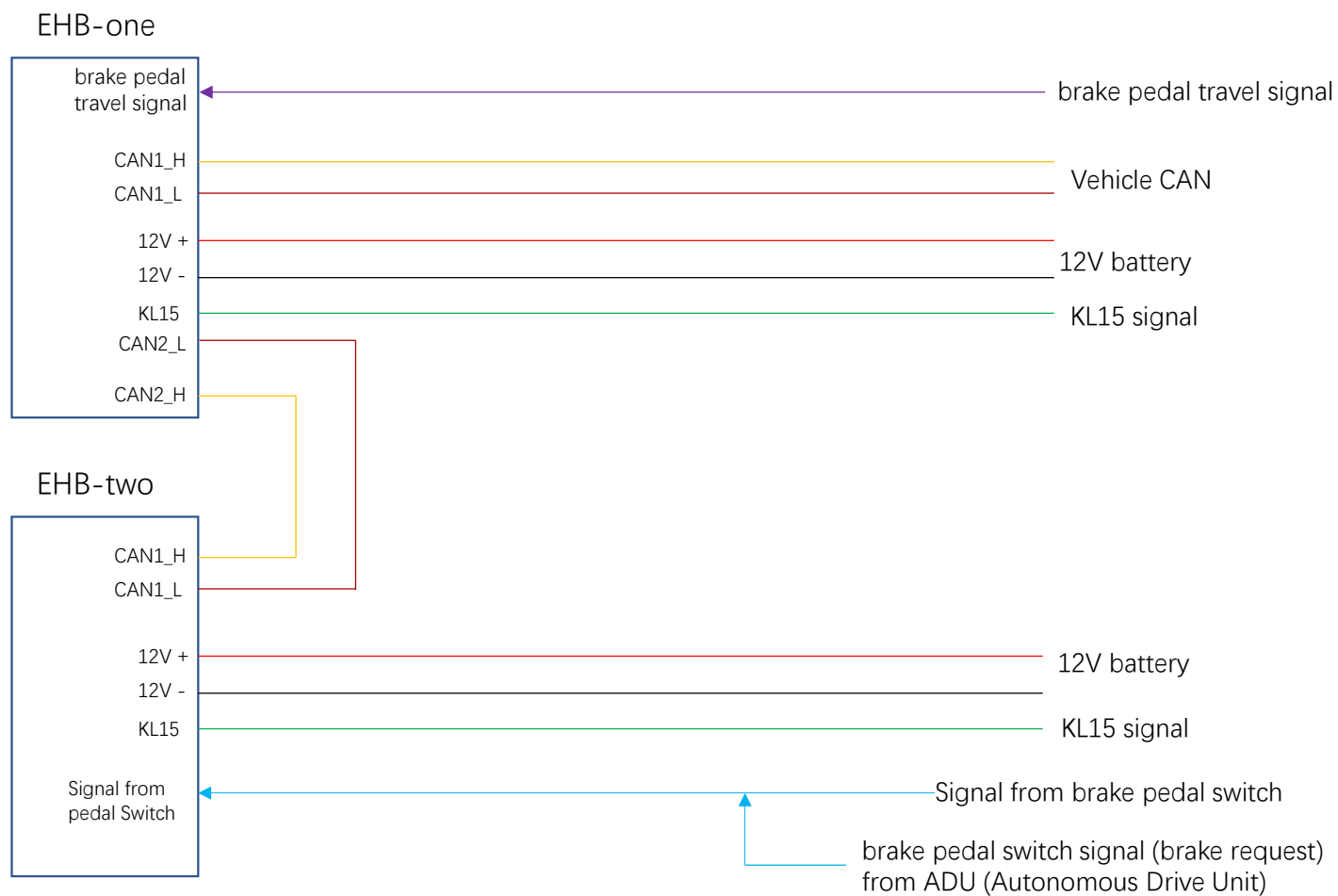
## Manual Driving



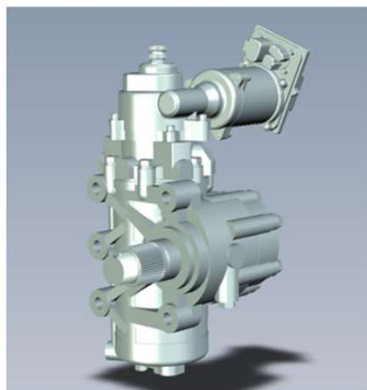
## Customer Case 1 - ISUZU USA Project, Redundant



## Customer Case 1 - ISUZU USA Project, Redundant



## Customer Case 1 - ISUZU USA Project, Steering System



Option 1:  
Non-Redundant-By-Wire-EHPS.  
Not Applicable for ISUZU.

**SCHAEFFLER**

specifically designed to steer the front axle of commercial vehicles.

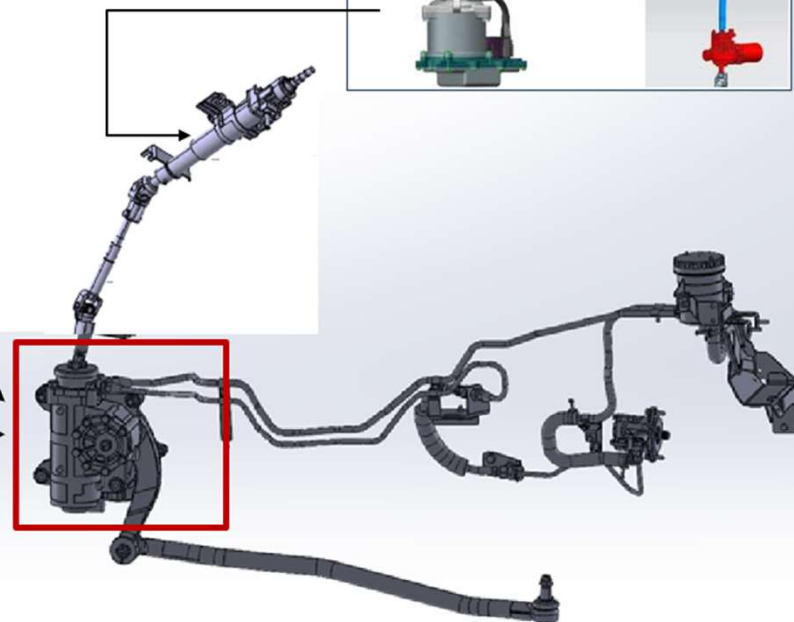
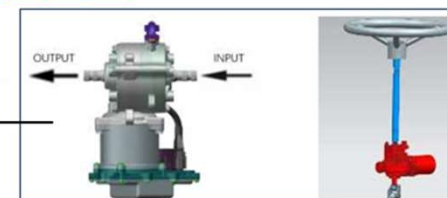


Option 2:  
Schaeffler Redundant-By-Wire-EHPS.

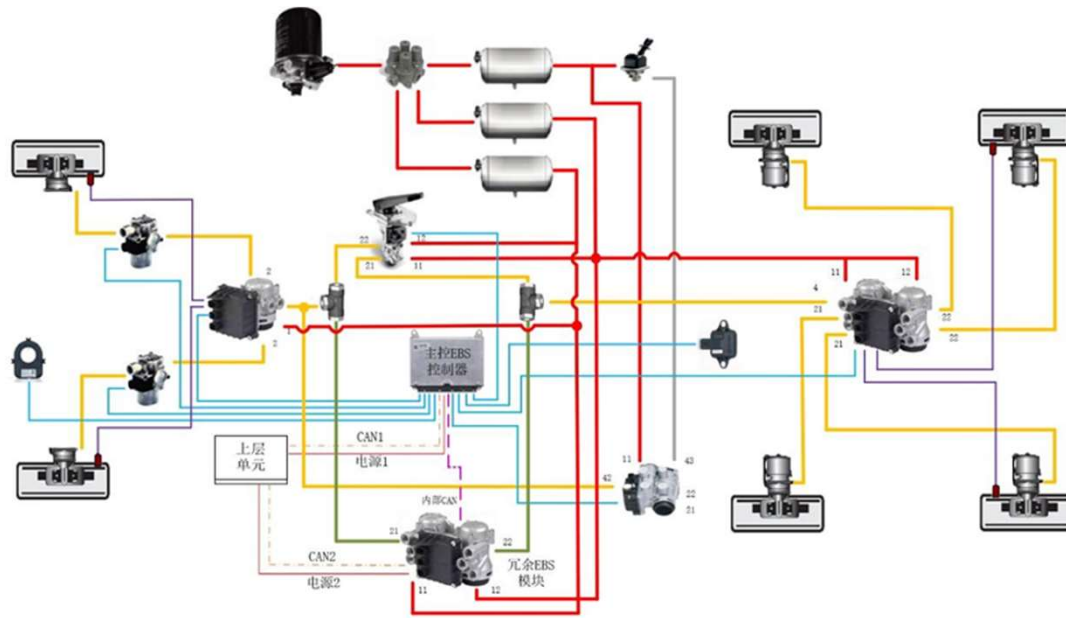
Development on-going.

Option 3:  
Non-Redundant-By-Wire Column EPS.

Deployed.

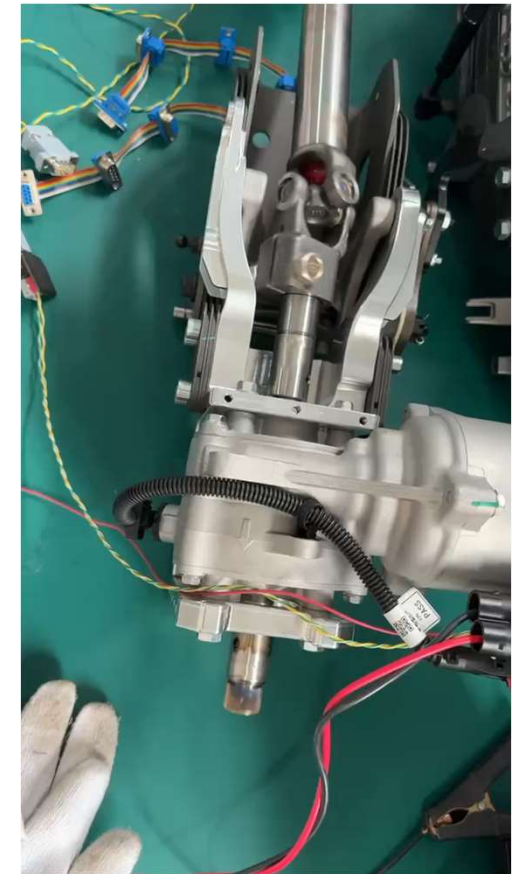
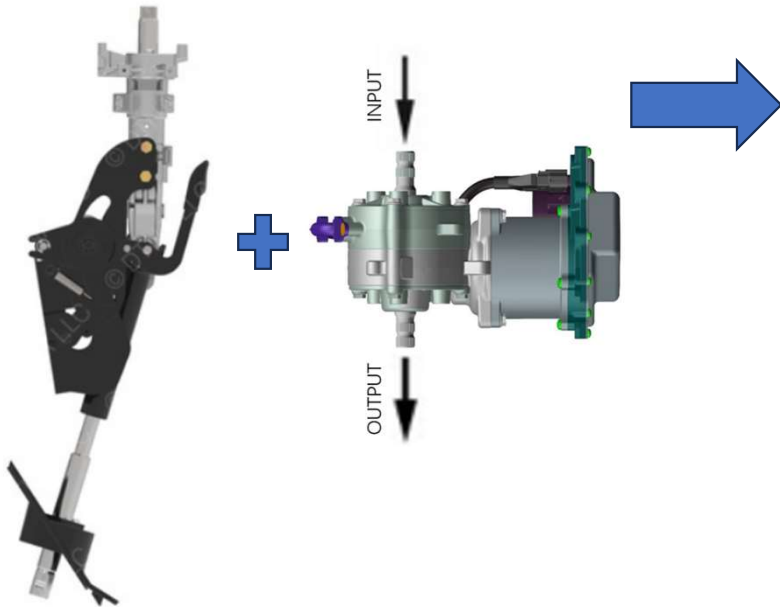


## ISUZU USA New Project - Redundant Air Brake





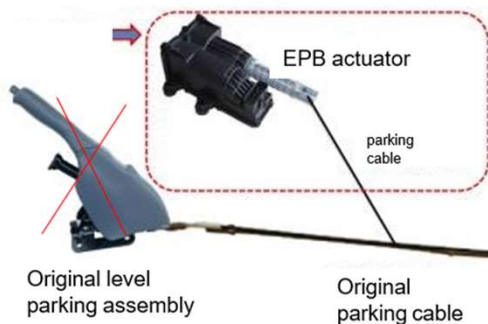
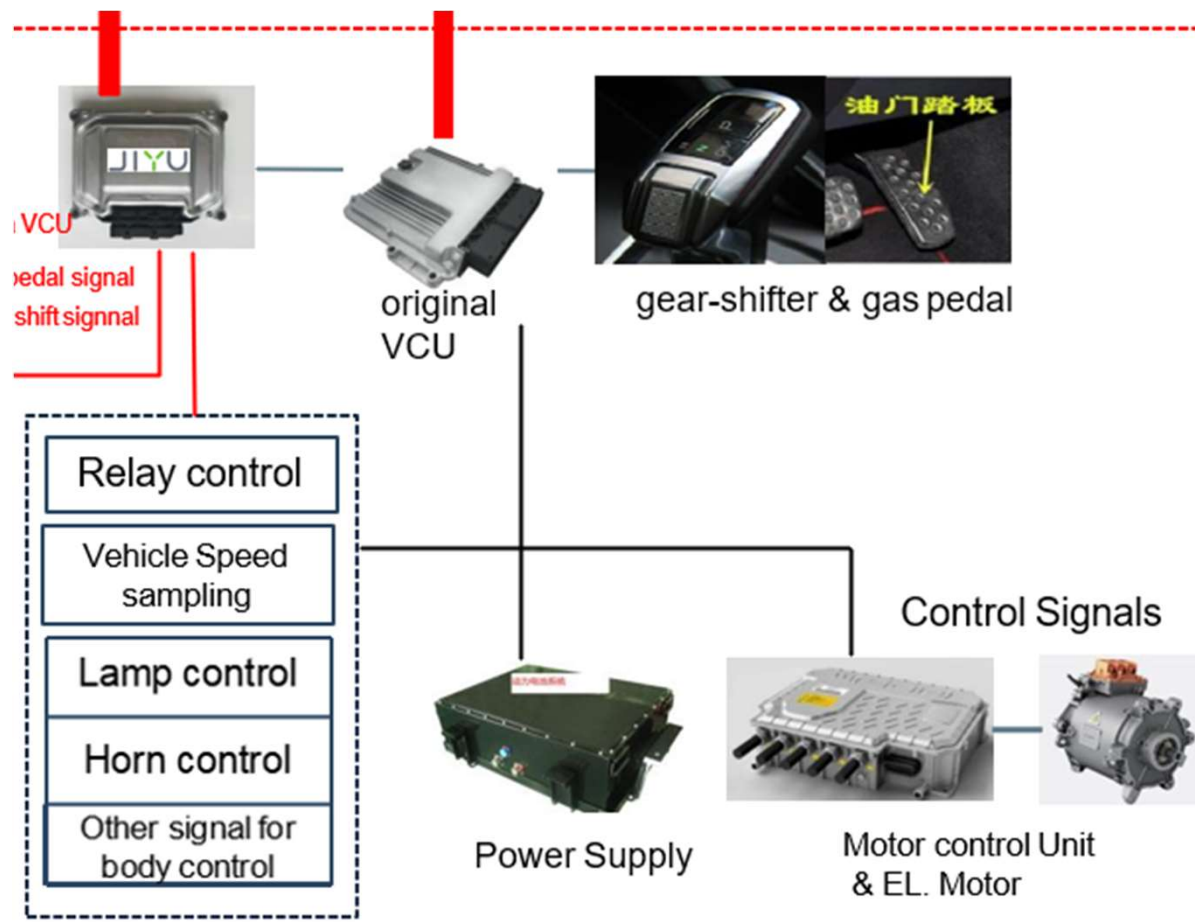
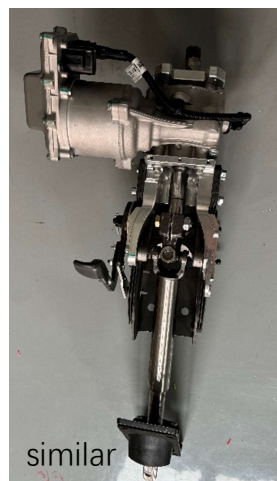
## Customer Case 2 - Steering for Robo-Truck in Texas



## Customer Case 3 - ISUZU-China 4.5 tons pickup



JYU | 济驭



A white Mercedes-Benz T800 coach is shown driving on a two-lane asphalt road that curves through a lush, green mountainous landscape. The bus is viewed from a front-three-quarter angle, moving away from the viewer. The background features steep, forested hills under a cloudy sky. The bus has a large windshield, multiple side windows, and a prominent front grille with the Mercedes-Benz logo.

该图展示了JYU底盘VCU的制动系统架构。系统由MCU、JYU Chassis VCU、ADAS传感器及控制器、Rear/Front EHPS、EPB模块阀、EPB开关、EBS主控制器、SAS、VSC、电子制动脚阀、ABS电磁阀、前/后桥控制模块、储气筒1/2、制动气室、轮速传感器和磨损传感器组成。系统通过气路（蓝色）、CAN总线（绿色）、控制气路（黑色）和电信号（红色）进行连接。





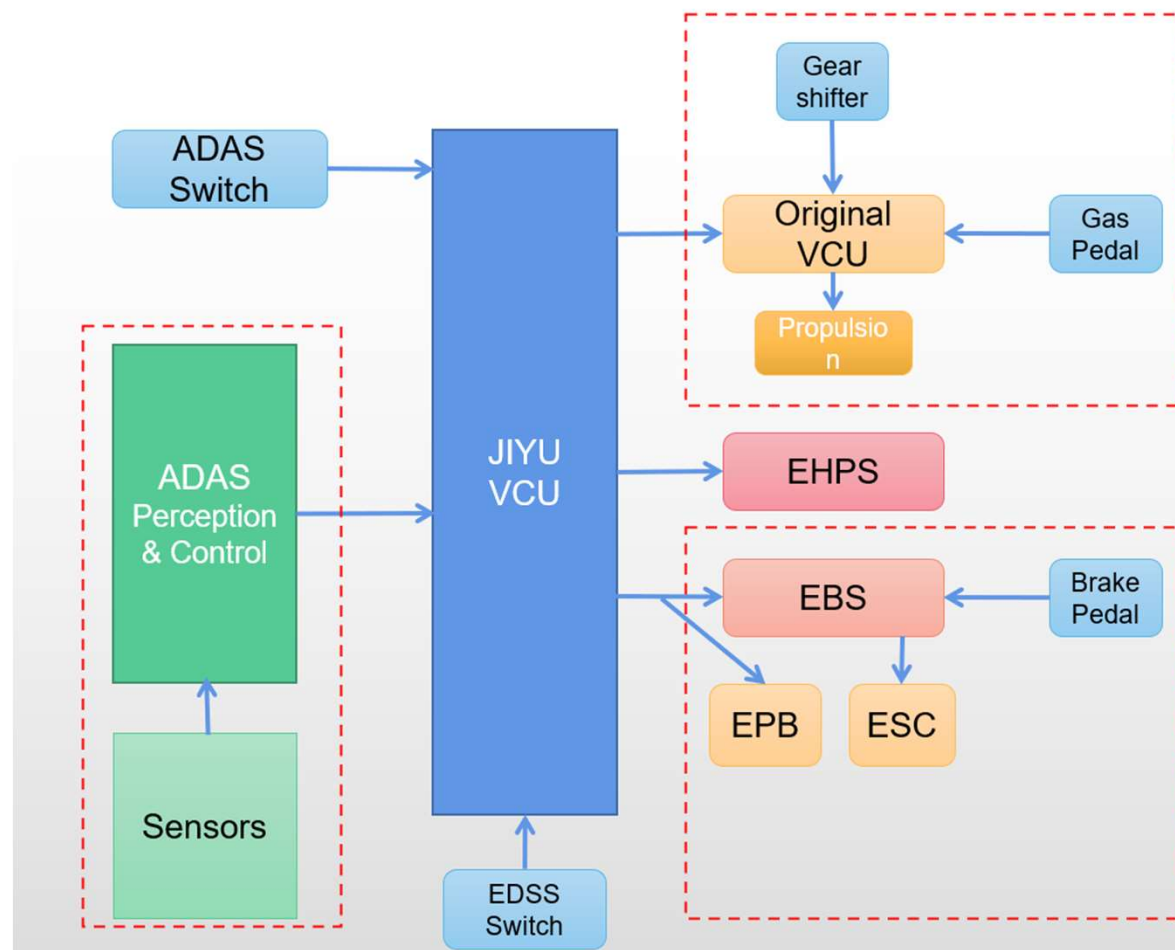
## AEBS Electrical Architecture



6 meters & 7 meters Mini-Bus

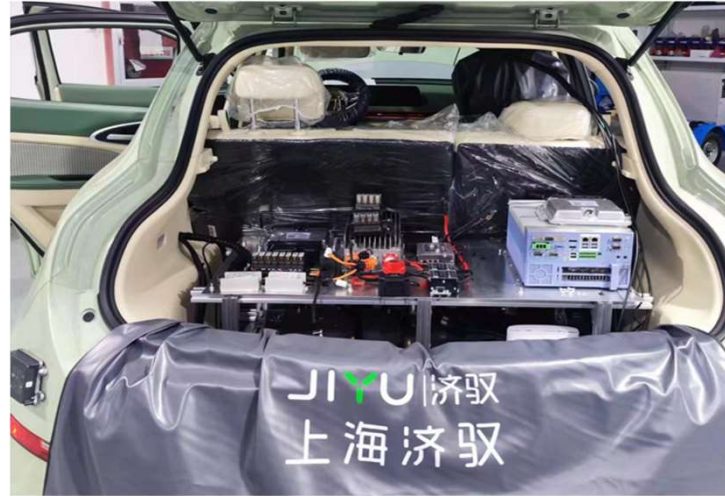


12 meters Tourist Bus



## More Customer Cases - Passenger Cars Adaption for Robo-taxi

JYU | 济驭

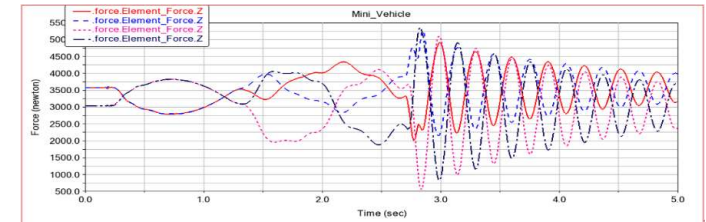
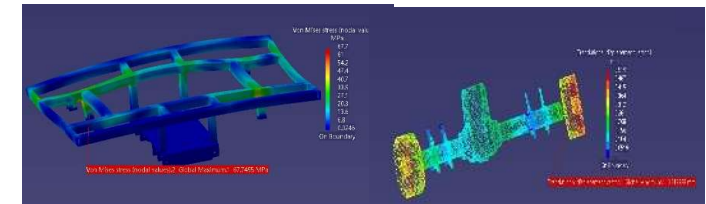
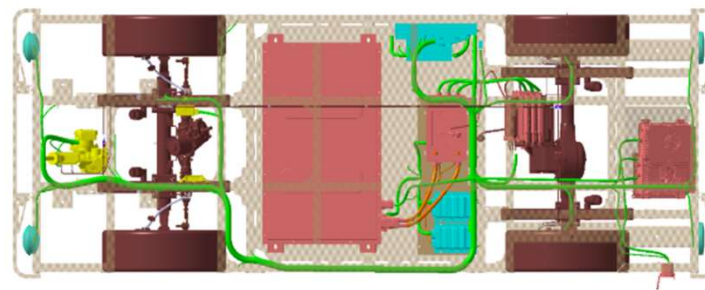
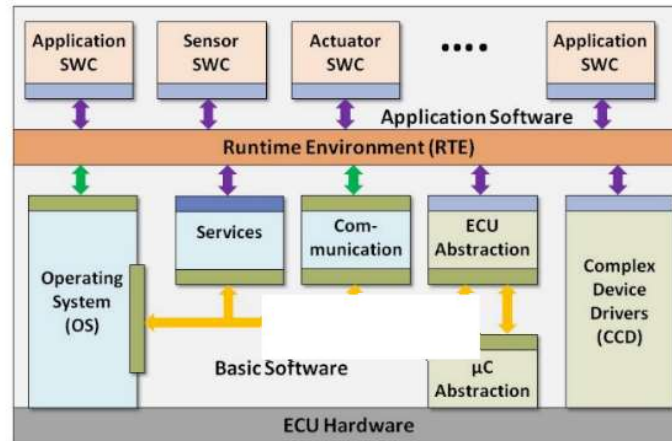
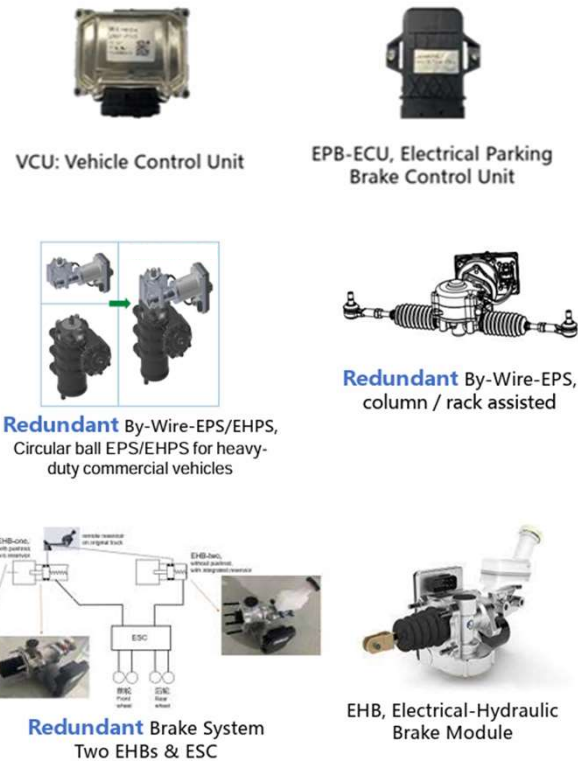




## Automotive grade components

## In-house SW & HW architecture

## Chassis design/CAE/Integration



轮胎接地垂直力 红: 左前轮 蓝: 右前轮 粉: 左后轮 深蓝: 右后轮<sup>41</sup>

Prototype development, design,  
testing and verification capabilities



Chassis-By-Wire durability dynamometer  
& performance test dynamometer.



20% (11.31°) and 25% (14.04°) standard slopes

Product assembly testing  
and verification capabilities



Mass production  
delivery capability



Suzhou Intelligent Manufacturing Factory  
More than 11,000 units/year





## Cooperative Partners & Application Cases

JYU | 济驭

### Some of partnership



### Strategic cooperation



## Commercial usage scenarios

JIYU | 济驭

### Public Road

Rivian, Canoo, PIX Moving....

JIYU X-by-wire chassis  
application scenarios:  
Low Speed, cargo  
carrier, closed roads  
(including highways  
for robo-trucks)

Unmanned delivery  
& grocery retails  
(Shining Fairy S500  
& Magic Carpet M1)



Transportation inside  
of logistics parks  
(Magic Carpet M3 &  
Legendary Heracles L6)



X-By-Wire  
chassis upgrade  
& adaption



## *Offering Super Running Shoes for Autonomous Driving!*

JYU | 济驭

YouTube Link, JYU-Chassis-By-Wire:



[www.shanghaijiyu.com](http://www.shanghaijiyu.com)