



Weibang Europe Tour

In December 2022, when epidemic policy was still tight, Weibang general manager Simon Sun and BD manager Wei CAI conducted their business trip to Europe, main activities was contacted potential customers, got an in-depth understanding of Punch major bases in Europe, visited Punch headquarters and management and participated in Punch 2022 global Townhall.

Europe is the key EV market after the United States and China. In recent years, Punch electric drive products are increasingly

influential among new energy customers in Europe. As a JV and transmission partner, Weibang deeply participates in the EDS projects of Europe customers, and provides competitive transmission solutions.

Weibang team had well visited and understood of production, manufacturing and marketing status of each bases, and reached a number of consensus on external customer projects.

It is believed that this trip will have significance for Webang understanding of the European market and promote the continued deepening of cooperation with European partners.

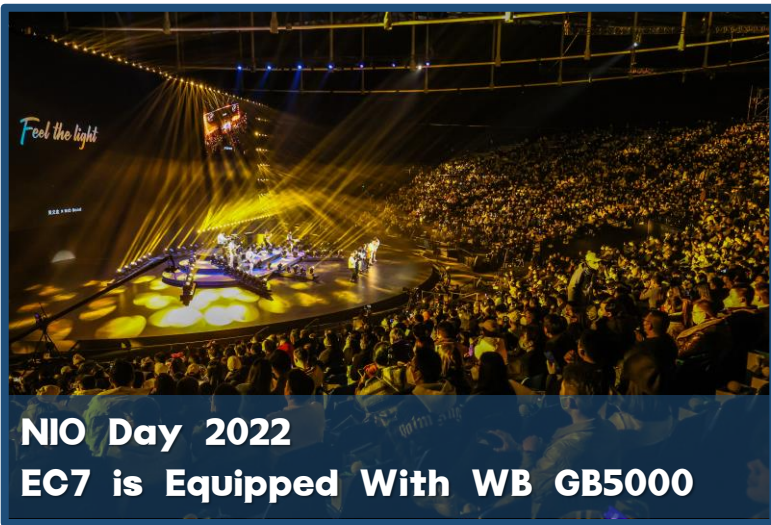


欧洲考察

2022年12月，在疫情仍吃紧之际，蔚邦总经理孙宝祥和市场经理蔡伟一行对欧洲进行了市场调研和考察，接洽了潜在客户，深入了解邦奇的欧洲几大基地，拜会了邦奇总部和管理层并参与了邦奇2022年的global Townhall。

欧洲是继美国、中国之后的新能源重点市场，近年来，邦奇的电驱动产品在欧洲新能源客户中影响力渐增，作为邦奇子公司，和减速箱的重点配套企业，蔚邦深度参与了欧洲大客户的电驱方案，并提供了有竞争力的解决方案。蔚邦此行对邦奇各工厂的研发，生产制造和市场情况等进行了了解，并在外部合作项目上达成了多项共识。相信此行将为蔚邦加深欧洲市场认识，促进和欧洲伙伴合作的继续深化产生积极意义。

December 24, 2022 – Hefei, China. The new model is equipped with Weibang GB5000 gearbox. NIO Day 2022 was held in Hefei, China. NIO launched smart electric flagship coupe SUV EC7, and the all-around smart electric flagship SUV, the all new ES8. Both models are derived from NIO's latest second-generation platform, bringing users an experience beyond expectations in terms of design, performance, comfort, intelligence, safety, and sustainability.



The design of the EC7 renders elegance and power in a well-balanced manner. This mid-large flagship coupé SUV comes standard with smart air suspension and inherits NIO's high-performance DNA marked by the latest high-efficiency electric drive platform. The combination of 300 kW high-performance induction motor and 180 kW high-efficiency permanent magnet motor outputs rapid mighty power and maintains power continuity and low energy consumption. The EC7 accelerates from 0 to 100 km/h in only 3.8 seconds and comes to a complete stop from 100km/h in 33.9 meters. EC7 is equipped with Weibang GB5000 gearbox; The new gearbox has many advantages such as high power and high integration. Weibang continues to optimize its product line and strives to provide customers with more excellent products and more choices.



2022年12月24日，2022蔚来日（NIO Day 2022）在合肥举行。新车型搭载蔚邦最新减速器-GB5000。

蔚来发布智能电动旗舰轿跑SUV EC7 和全场景智能电动旗舰SUV全新ES8。两款车型均诞生自蔚来最新的第二代技术平台，在设计、性能、舒适、智能、安全等方面为用户创造了超越期待的体验。

智能电动旗舰轿跑SUV EC7，是蔚来全新设计的中大型旗舰轿跑SUV，它将蔚来的优雅特征诠释到了极致，将成为轿跑SUV的审美标杆。EC7搭载空气悬架，采用蔚来新一代高效电驱平台，前后双电机最大功率480kW，百公里加速时间为3.8秒；最短百公里制动距离为33.9米。EC7搭载蔚邦全新减速箱-GB5000；新减速箱具有大功率、高集成度等诸多优势。蔚邦持续优化产品线，努力为客户提供更加优秀的产品，提供更多选择。





## Continual Improvement 持续改进 群策群力

Product quality is the foundation of enterprise development, and the pursuit of quality improvement is endless.

Recently, during the process improvement, the quality department found that the OP1150 station had the phenomenon of manual missing or re-punching torque of box closing bolts not up to the standard, and there was the risk of defective product outflow and customer complaints.

In order to reduce the potential risk, the Quality Department, together with the Equipment Department, modified the OP1150 box closing bolt station: instead of replacing the original one, the equipment program automatically

identified missed bolts and replaced them. It effectively reduces the uncertainty of human operation, ensures process stability, and improves product quality and customer satisfaction.

产品质量是企业之本，追求质量提升之路永无止境。

近期蔚邦质量部在过程改进中发现，OP1150工位，有合箱螺栓人工漏打或补打扭矩不达标现象，存在不良品流出及客户投诉风险。为降低潜在风险，质量部汇同设备部，对OP1150合箱螺栓工位进行改造：由原本人为补打螺栓，改为设备程序自动识别漏打螺栓并补打。有效降低了人为操作的不确定性，保证了过程稳定，提升了产品质量和客户满意度。

(编辑 施季雯 Edit by Sage.Shi)

## Professional Knowledge 专业知识

### 7 Principles of Supply Chain Management 供应链管理的七项原则

1. Divide customer groups according to the service characteristics required by customers; 根据客户所需的服务特性来划分客户群;
2. Design the logistics network of the enterprise according to customer needs and the profitability of the enterprise; 根据客户需求和企业可获利情况，设计企业的后勤网络;
3. Listen to market demand information and design products closer to customers; 倾听市场的需求信息,设计更贴近客户的产品
4. Time delay; 时间延迟
5. Strategically determine the source of goods and establish a win-win cooperation strategy with suppliers; 策略性的确定货源和采购与供应商建立双赢的合作策略;
6. Establish information system in the whole supply chain; 在整个供应链领域建立信息系统;
7. Shorten cash turnover time; 缩短现金周转时间

## Difference Between Closed-loop and Open-loop Control of Servo Motor

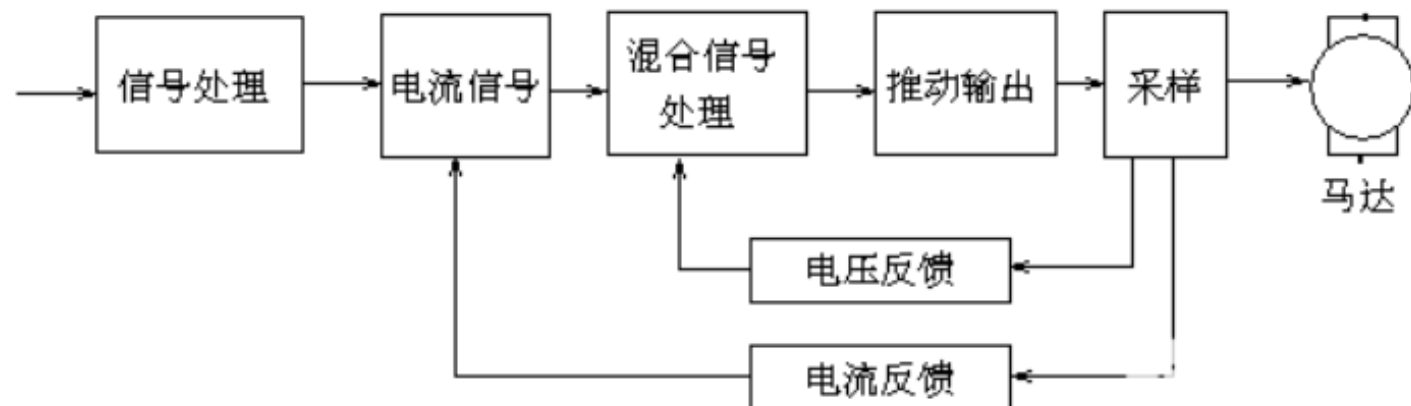
## 1. What is closed-loop control

Closed-loop control is also known as "closed-loop feedback control". It superimposes the output feedback (acquisition) loop and the input, compares and corrects it with the quantitative value, and then adjusts the output value according to the error value to make the output value more stable within the given range. At present, most of our existing servo motor drives adopt internal double closed-loop, i.e. voltage and current closed-loop, with speed control accuracy of 1% and speed regulation ratio of 1:100



## 2. What is open-loop control

Open loop, i.e. input and output do not form a closed loop.



## 3. Difference between open-loop control and closed-loop control

The speed accuracy of the ordinary open-loop governor is not high (the maximum speed accuracy can reach 1%), so the requirements for the application are not high. Relatively speaking, the speed closed-loop accuracy is high, the control is stable, the dynamic response is fast, the follow-up is good, and the torque can be constant

## 1. 什么是闭环控制？

闭环控制也称为“闭环反馈控制”，它把输出量反馈（采集）回路和输入量叠加起来，与定量比较和校正，然后根据误差值调整输出值，使输出值更稳定在给定的范围内。目前我们现有的伺服电机驱动器大多采用内部双闭环，即电压电流闭环，转速控制精度为1%，调速比1:100。

## Difference Between Closed-loop and Open-loop Control of Servo Motor

### 什么是开环控制？

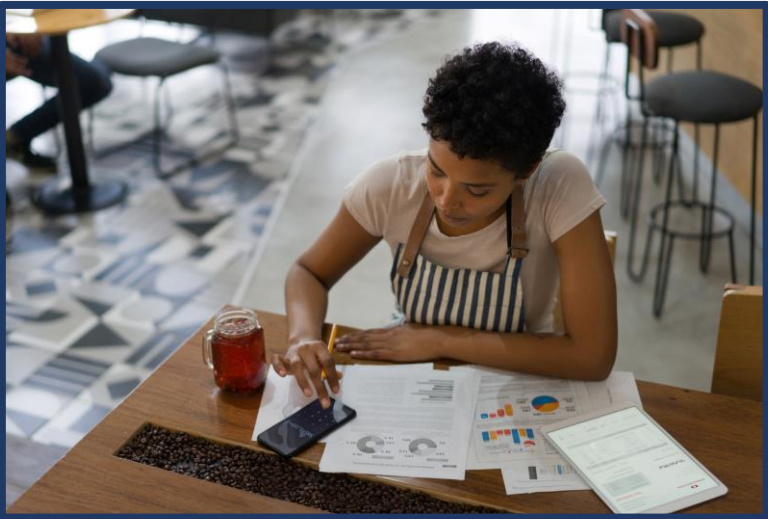
开环，即输入与输出没有形成闭合环路。

### 开环控制与闭环控制的区别

普通开环的调速器转速精度不高（最高转速精度可达1%），这样对使用场合的要求也不高，相对来说，速度闭环精度高，控制稳定，动态相应快，跟随性好，可恒转矩等优点。

(编辑 李蕾 Edit Lei.Li)

## Five Principles of Reasonable Tax Planning 合理税筹五大原则



1. Plan ahead: Only the planning in advance is called tax planning, and after the fact, they may be tax evasion, so they must be carried out before the business operation occurs.

2. Declare truthfully: Never make false invoices, pay taxes truthfully and declare according to law.

3. Four streams in one: Invoice flow, fund flow, contract flow and goods flow

should be uniformly corresponded, Inconsistency may result in tax inspection.

4. Business real: There is actual real operation, and do not engage in shell companies to falsely open, change invoices, transfer accounts or "spin off" for profit

5. Reasonable business coordination: Find the legal basis, carry out planning legally, rather than exploiting loopholes in gray areas.

1.事前规划：只有事前规划的才叫税筹，事后的都可能是偷税漏税，所以一定要在企业经营行为发生之前进行

2.如实申报：千万别虚开发票，如实纳税，依法申报

3.四流合一：发票流、资金流、合同流、货物流，要相统一相对应，不一致就可能会被税务稽查

4.业务真实：有实际真实经营，不搞空壳公司虚开、变票、走账或者“分拆”牟利

5.合理进行业务配合：找准法律依据，合法进行筹划，而不是在灰色地带钻空子



## Post-subsidy Era of Energy Vehicles 新能源汽车的后补贴时代

The purchase subsidy policy for EV ends on December 31, 2022, which means that the "state subsidy", which has lasted for 13 years, will officially withdraw from the historical stage in 2023. With the complete withdrawal of subsidies, EV enterprises will enter the stage of survival of the fittest, and those relying on subsidies and weak strength may be difficult to survive in the competition. For car companies with profitability and brand dividends, they need to rely on their own product core



technology competitiveness, stable supply chain capabilities to build brands and product solid barriers. After more than ten years of development, the domestic market has explored the law of every link from manufacturing to sales, and at the same time, it has also prospectively seen the development trend of EV. This has also laid the concept, technology and market foundation for the sustainable development of automobile enterprises in the EV market.

新能源汽车购置补贴政策于2022年12月31日终止，这意味着延续了13年的“国补”于2023年正式退出历史舞台。随着补贴完全退出，新能源车企会进入优胜劣汰阶段，依赖补贴、实力较弱的车企在竞争中或难以生存，对于具有盈利能力和品牌红利的车企而言，需凭借自身的产品核心技术竞争力、稳定的供应链能力等构筑品牌和产品坚实壁垒。经过十余年的发展，国内市场已经摸索到从生产制造到销售各个环节的规律，同时也前瞻性地看到新能源汽车发展的趋势，这也为车企在新能源汽车市场的持续发展奠定了理念、技术和市场基础。“在国内汽车市场，智能化和数字化同样是吸引消费者购买新能源汽车的主要因素。”



颜景辉认为，随着新能源汽车市场进入全新发展阶段，电动化、网联化、智能化是新能源汽车产业未来发展的主要方向。从供应侧来看，车企在提高自身产品核心竞争力的同时，也应该进一步关注智能化水平的提升，以及在数字化转型背景下，如何构建数字车生活同样是车企竞争的重要课题。

- A collection place inherited from history in Nanjing
- Old books, antiques, and old goods are everywhere, and old porcelain and old wooden pieces can be found
- The market is full of four floors, and there are many kinds of jade treasures, and the more you stroll, the more interesting it is

The building is basically a dedicated physical store, the quality is guaranteed, but the price will be slightly higher.

The categories outside are very mixed, most of them are placed on the ground, interesting and interesting, but the price level is uneven, everyone must polish their eyes!



Nanjing Chaotiangong Antique Market  
南京朝天宫古玩市场

📍 Address: Nanjing Chaotiangong Antique Market (Phase II)

🕒 Hours: 9:00-19:30 Saturdays and Sundays

🚗 Transportation: Nanjing Metro Line 1 Sanshanjie Station Exit 2 walk 1000 meters



- 南京从历史遗传下来的藏品聚集地
- 旧书、古玩、旧货遍布，老瓷器、老木件都能淘到

- 市场足足四层，各式玉石宝器超多，越逛越有趣

楼里面基本都是专门的实体店，质量有保证，但价格也会稍微高一点。

外面的品类很杂，大部分都是摆在地上的，有趣有看头，但价格层次不齐，大家一定要擦亮双眼！

📍地址：朝天宫古玩市场（二期）

🕒营业：9:00-19:30 周六、周日

🚗交通：南京地铁1号线三山街站2号口步行1000米

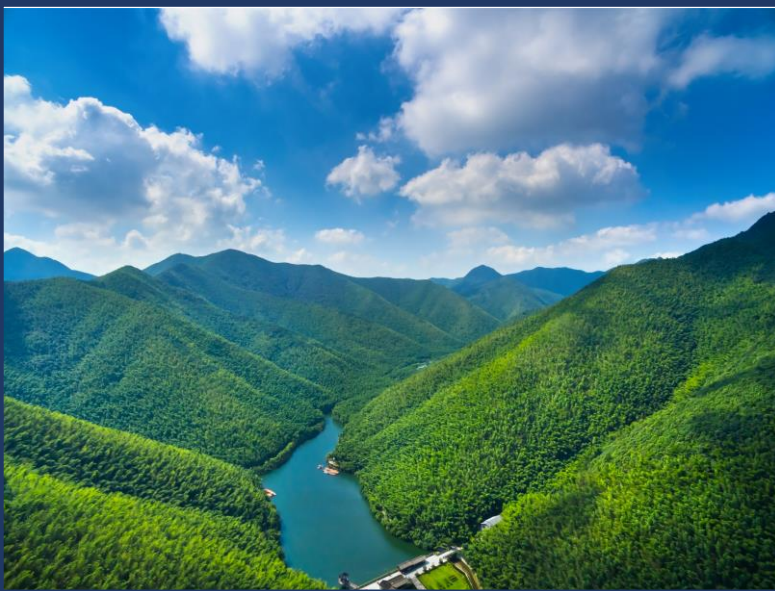


In the crisp autumn weather, I still want to go on a trip. Liyang Nanshan Bamboo Sea is recommended. Surrounded by mountains, 35,000 mu of bamboo forests are boundless. It contains the poetry and charm of green mountains and green waters, and has the reputation of "Paradise Nanshan, Dream Bamboo Sea". Those who like climbing mountains can take the climbing route directly, shuttle through ten thousand acres of bamboo forests, climb to the top of the mountain and enjoy the beauty

of the other mountains all appear dwarfs under the sky.; Children with children can also take the online celebrity small train and cable car, shuttle over the bamboo sea, feel the comfort of "the landscape is not gorgeous, the landscape is at my feet", go to the Panda Pavilion to see the panda, birds of paradise's cute interest, Jiming Village to enjoy the lion dance performance, listen to the birds on the bamboo raft and enjoy the beautiful scenery of the mountain forest.



Nanshan Bamboo Sea  
南山竹海



遇到秋高气爽的天气，还是想来一场说走就走的旅行。推荐溧阳南山竹海，群山环抱，3.5万亩竹林苍茫连绵，深蕴着青山绿水的诗意和神韵，有着“天堂南山，梦幻竹海”的美誉。喜欢爬山的可以直接走登山路线，穿梭于万亩竹林，登上山顶领略一览众山小的美景；带着小孩的也可以乘坐网红小火车、缆车，穿梭于竹海之上，感受“山水不在华丽，山水在我脚下”的惬意，前往熊猫馆看熊猫、小鸟天堂的萌趣、鸡鸣村欣赏舞狮表演、在竹筏上听着鸟叫、欣赏山林美景