



新能源行业
首选品牌
The preferred brand in the
new energy industry

新能源行业
传动方案专家

THE PREFERRED BRAND IN THE
NEW ENERGY INDUSTRY

浙江恒齿传动股份有限公司
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EVERGEAR[®]
恒齿传动



44698m²



200+ 员工



100,000+ 台/年

恒齿一号工厂



63658m²



500+ 员工



200,000+ 台/年

恒齿二号工厂



先进的生产设备 是确保产品质量最好的物质基础

环保-污水处理 / 化工搅拌 / 新能源汽车 / 钢铁冶金 / 筑路机械 / 包装机械 / 塑料机械
物流自动线 / 光伏行业 / 电力水泥设备 / 动车轮毂设备 / 纺织设备 / 港口起重设备 / 金属拉丝设备
盾构机 / 啤酒饮料设备 / 粮食机械设备 / 电子专用设备 / 煤炭输送...

environmental protection sewage treatment / chemical mixing / new energy vehicles / steel metallurgy
road construction machinery / packaging machinery / plastic machinery / automatic logistics lines / photovoltaic industry
power cement equipment / wheel hub equipment / textile equipment / port lifting equipment
metal drawing equipment / Shield boring machine / Beer and beverage equipment
Grain machinery and equipment / Electronic special equipment / Coal transportation

COMPANY BRAND:

公司品牌:

EVERGEAR 恒齿传动 恒齿减速机 恒齿机械 恒齿 恒齿工 EVERGEAR



浙江恒齿传动股份有限公司是一家集减速机产品研发、生产制造、销售服务于一体的知名企业。

公司主导系列产品有：ER、EK、EF、ES、EH/EB、EQ、EZ等12种之多，配套功率0.18-4000KW，数万种传动比，并通过 ISO9001 质量管理体系、ISO14001 环境管理体系、ISO45001 职业健康安全管理体系和欧盟 CE 认证，以高品质著称的“恒齿”产品供广大客户选择。

公司坚持以科技创新为本，具有“省级企业研究院”称号，致力于国际、国内减速机设备的研制、开发和数字化设计，目前已取得 10 多项发明专利，70 多项实用新型专利。

公司作为中国减速机标准化委员会委员单位已组织制定多项行业标准，获评“国家高新技术企业”“品字标浙江制造”“浙江省科技型企业”“浙江省专利示范企业”“中国行业减速机十大品牌”“浙江省企业成长之星”“省级 AAA 级重合同守信用企业”、“省专精特新中小企业”“省级知识产权示范企业”“浙江制造精品名单”“生产制造方式转型示范项目名单”等多项荣誉称号。

我们秉承“恒之以心，齿之以恒”的理念，热忱欢迎国内外新老朋友，莅临恒齿公司参观指导。

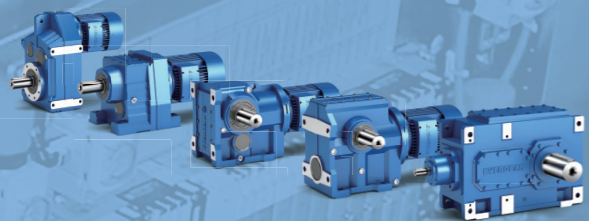
Zhejiang EVERGEAR Drive Co.,Ltd is a national high-tech enterprise that integrates the research and development, production, manufacturing, sales and service of gear reducer products.

Company Leading products: ER, EK, EF, ES, EH/EB, EQ, EZ, etc twelve series. Motor power range: 0.18 ~ 4000KW, nearly tens thousands of ratios. The company has passed ISO9001 quality management system, ISO14001 environmental management system, ISO45001 occupational health and safety management system, and CE certification. Serial "EVERGEAR" products are for your choice.

The company adheres to technological innovation and has the title of "Provincial Enterprise Research Institute". It is committed to the research, development, and digital design of international and domestic reducer equipment. At present, it has obtained 10 invention patents and 70 utility model patents.

As a member unit of the China Reducer Standardization Committee, it has established many industry standards, the company has been awarded the titles of "National High-tech Enterprise", Label certification of Zhejiang Made- "品" (product), "Zhejiang Science and Technology Enterprise", "Zhejiang Patent Demonstration Enterprise", "Top Ten Chinese Reducer Brands", "Zhejiang Province Growing Star Enterprise", "Provincial AAA Level Contract Abiding and Trustworthy Enterprise", "Provincial specialized, Refined, and New small and Medium Enterprise", "Provincial Intellectual Property Demonstration Enterprise", "List of quality products made in Zhejiang" "List of demonstration projects for transformation of production and manufacturing methods" etc honorary titles.

We adhere to the concept of "Persist in heart, Persistent gears", we warmly welcome new and old friends from domestic and abroad to visit EVERGEAR for guidance.



SPECIAL REDUCER FOR LITHIUM BATTERY MANUFACTURING

我们制造高效、耐用、低维护的 锂电池制造专用减速机，

以满足我们
新能源领域客户的需求

采用免维护设计，正常情况下更换润滑油周期长
结构紧凑，可以空间六方位安装，更高的效率使系统经济运行且节约成本
一体成型技术，确保产品有极高的可靠性、密封性、具有低维护及使用寿命长等特点

高精度双面磨齿，辅以特殊齿轮修形，齿轮精度高，运转平稳，噪音低，震动小。
齿轮与轴承使用了飞溅润滑和强制润滑相结合的方式，确保减速机的安全运转。
输出轴采用双油封密封结构和干井式脂润滑密封结构，充分保证润滑油不渗漏。

WE MANUFACTURE EFFICIENT, DURABLE, AND LOW MAINTENANCE LITHIUM BATTERY MANUFACTURING SPECIALIZED REDUCERS TO MEET THE NEEDS OF OUR NEW ENERGY CUSTOMERS

Maintenance-free design, under normal circumstances, the replacement period of lubricating oil is long
Compact structure, can be installed in six directions in space,
higher efficiency enables the system to operate economically and save costs Integrated molding technology ensures high reliability, sealing, low maintenance and long service life of the product

High-precision double-sided grinding, supplemented by special gear modification, the gear has high precision, stable operation, low noise and small vibration.
Gears and bearings use a combination of splash lubrication and forced lubrication to ensure the safe operation of the reducer.
The output shaft adopts a double oil seal structure and a dry well type grease lubrication seal structure, which fully guarantees that the lubricating oil does not leak.



EFFICIENT



DURABLE



LOW MAINTENANCE

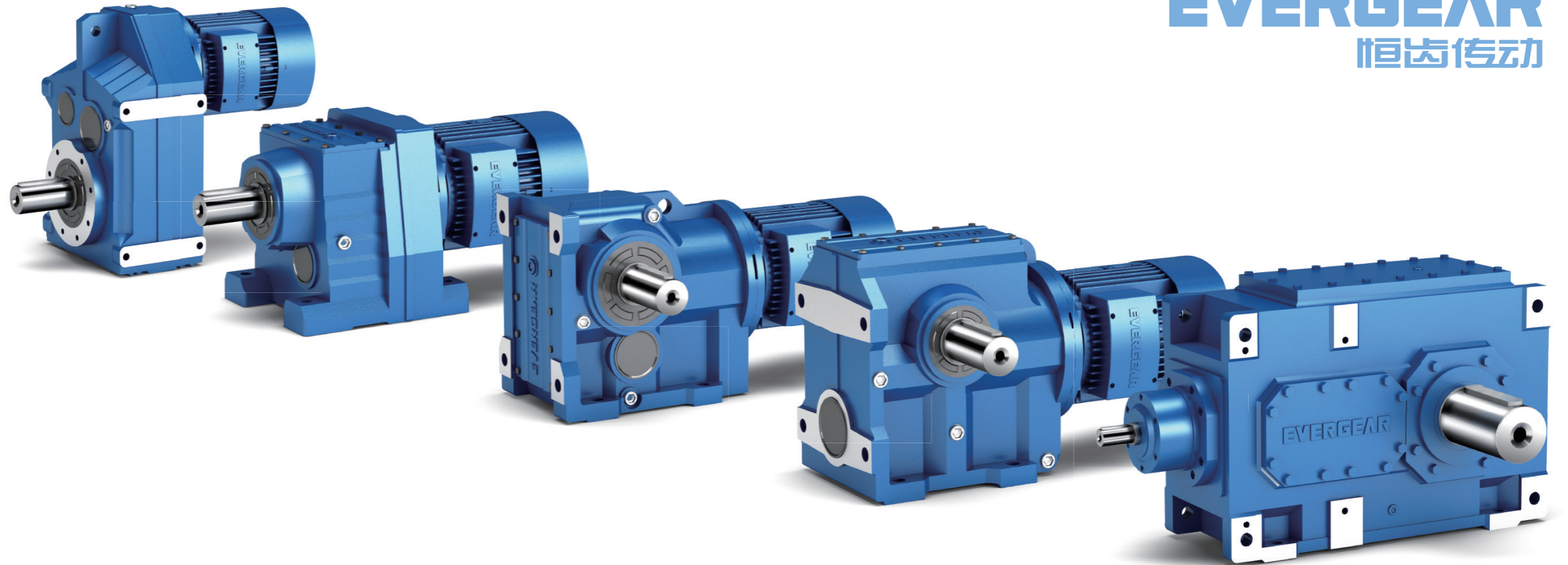
新能源领域中的应用

- 1.风力发电 2.太阳能发电 3.汽车电机驱动 4.飞轮储能 5.锂电池生产制造

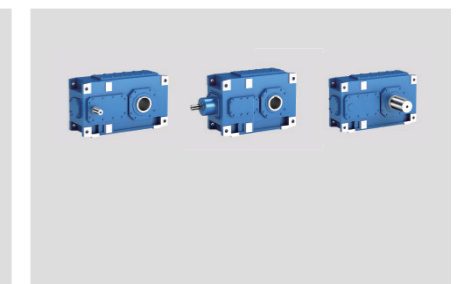
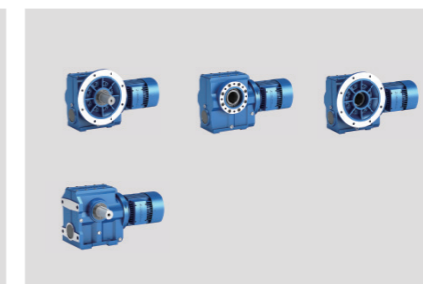
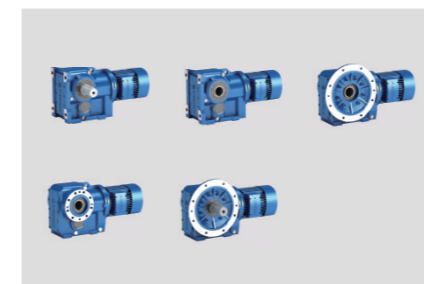
APPLICATIONS IN THE FIELD OF NEW ENERGY

1. WIND POWER GENERATION 2. SOLAR POWER GENERATION 3. AUTOMOTIVE MOTOR DRIVE
4. FLYWHEEL ENERGY STORAGE 5. LITHIUM BATTERY MANUFACTURING





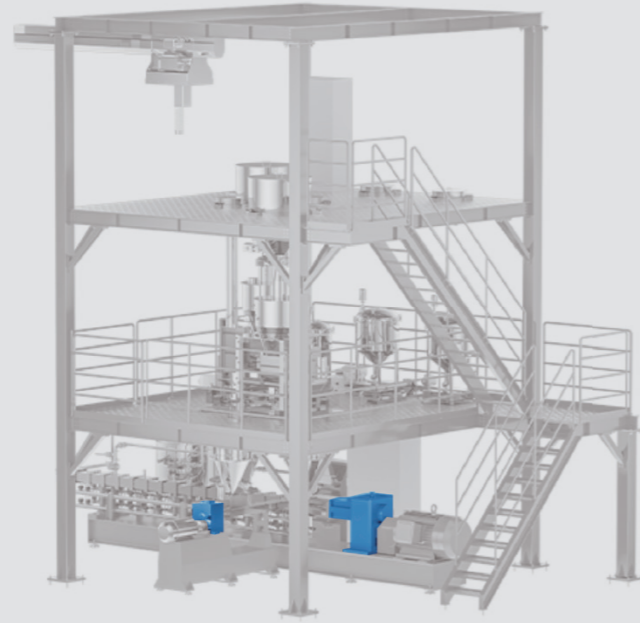
MODEL 型号	ER	EF	EK	ES	EH/EB
NAME 名称	HELICAL GEAR MOTOR 斜齿轮硬齿面减速机	PARALLEL SHAFT HELICAL GEAR MOTOR 平行轴斜齿轮减速机	HELICAL BEVEL GEAR MOTOR 斜齿轮-弧齿锥齿轮减速机	HELICAL-WORM GEAR MOTOR 斜齿轮-蜗轮蜗杆减速机	HIGH POWER GEAR REDUCER 大功率齿轮减速机
OUTPUT SPEED 输出转速	0.13~1116r/min	0.12~310r/min	0.11~276r/min	0.3~150r/min	2.2~1440r/min
OUTPUT TORQUE 输出转矩	最大UP To 32000N.m	最大UP To 32000N.m	最大UP To 50000N.m	最大UP To 4000N.m	最大UP To 900N.m
MOTOR POWER 电机功率	0.18~200kw	0.18~200kw	0.18~200kw	0.18~22kw	2.2~5366kw
MOUNTING FORM 安装形式	FOOT/ FLANGE MOUNTED 底脚安装/法兰安装	FOOT/ FLANGE / SHAFT MOUNTED 底脚安装/法兰安装/轴装安装	FOOT/ FLANGE / SHAFT MOUNTED 底脚安装/法兰安装/轴装安装	FOOT/ FLANGE / SHAFT MOUNTED 底脚安装/法兰安装/轴装安装	FOOT/ SHAFT MOUNTED 底脚安装/轴装安装



PULPING MACHINE 制浆机

该设备集成输送、混合、分散、排气于一体，可实现物料连续加工连续出料，功能上实现自由搭配，满足不同工况需求，解决因功能单一导致成本、能源的损耗问题。

This equipment integrates transportation, mixing, dispersion, and exhaust into one. It can achieve continuous processing and discharge of materials, and achieve free matching in function, Meet the needs of different working conditions, Solve the problem of cost and energy loss caused by single function.



SAND MILL 砂磨机

针对电池材料特性开发的专业研磨设备，全自动配料系统保证研磨连续式生产，提供持续高效率的纳米研磨。

Developed for the characteristics of battery materials Professional grinding equipment, The fully automatic batching system ensures continuous grinding production, Provide continuous and efficient nano grinding.



电池材料生产解决方案 | PRODUCTION SOLUTIONS TO BATTERY MATERIAL

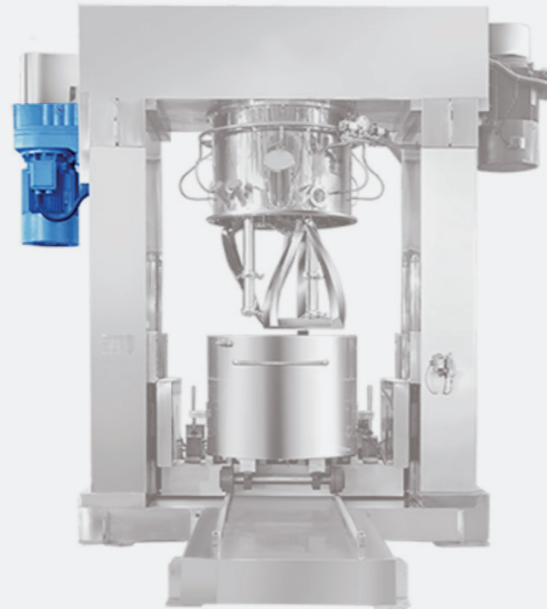
ZHEJIANG EVERGEAR DRIVE CO.,LTD.

EVERGEAR

DOUBLE PLANETARY REDUCER MIXER 双行星搅拌机

双行星搅拌机主要用于粉料和液料之间的搅拌、混合及分散。搅拌机的分散盘与搅拌桨实现既公转、又自转的行星运动，其速度可通过变频器进行调整。特殊的搅拌方式使物料受到强烈分散和挤压，保证物料充分分散和混合。

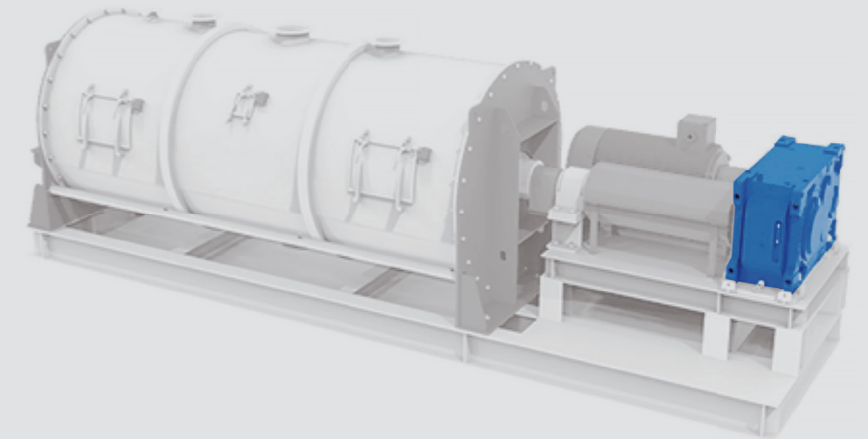
The Double planet mixer is mainly used for Mixing, mixing, and dispersion between powder and liquid materials. The dispersing disc and stirring paddle of the mixer achieve planetary motion of both revolution and rotation. Its speed can be adjusted through a frequency converter. The special mixing method causes the material to be strongly dispersed and squeezed, Ensure sufficient dispersion and mixing of materials.



MIXER 混合机

混合机主要用于粉体与粉体、由于粘性物料清洗困难的特点，较为适用于产量大、不经常更换品种的场所。针对新能源行业，具有一套完善的减少磁性异物产生的方法模块化设计，可根据需要对设备进行针对性改造、升级优化

The mixer is mainly used for powder and powder. Due to the difficulty in cleaning sticky materials, More suitable for high yield Occasions where varieties are not frequently changed. For the new energy industry, Modular design with a comprehensive set of methods to reduce the generation of magnetic foreign objects, Targeted modifications, upgrades, and optimizations can be made to equipment as needed



BATTERY PRODUCTION SOLUTIONS

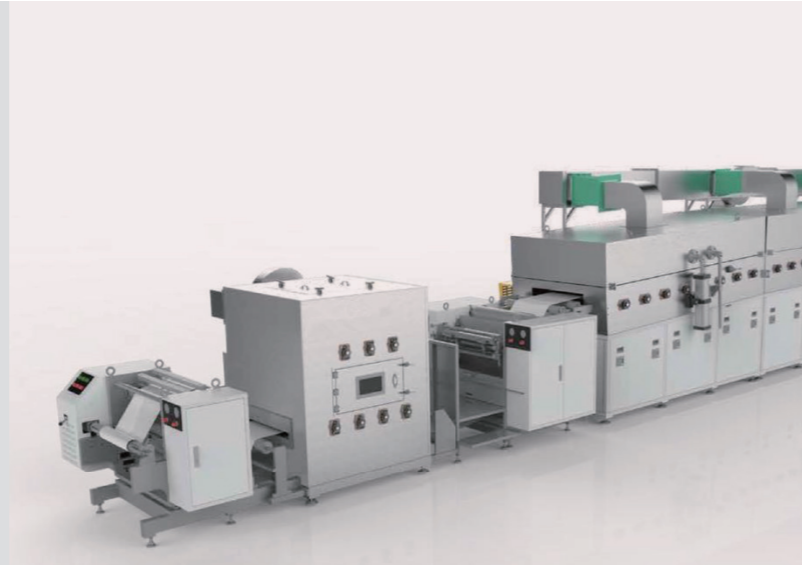
电池生产解决方案



SLURRIES 合浆

既是把正负极活性物质，增稠剂，粘结剂，溶剂通过一定的比例，在合浆罐中经过充分的搅拌得到正负极浆料。搅拌一般分为六种(均相混合，液液分散，气液分散，固液悬浮(电池常用)，固体溶解(电池常用)，结晶，悬浮又由底部悬浮、分离悬浮、均匀悬浮。

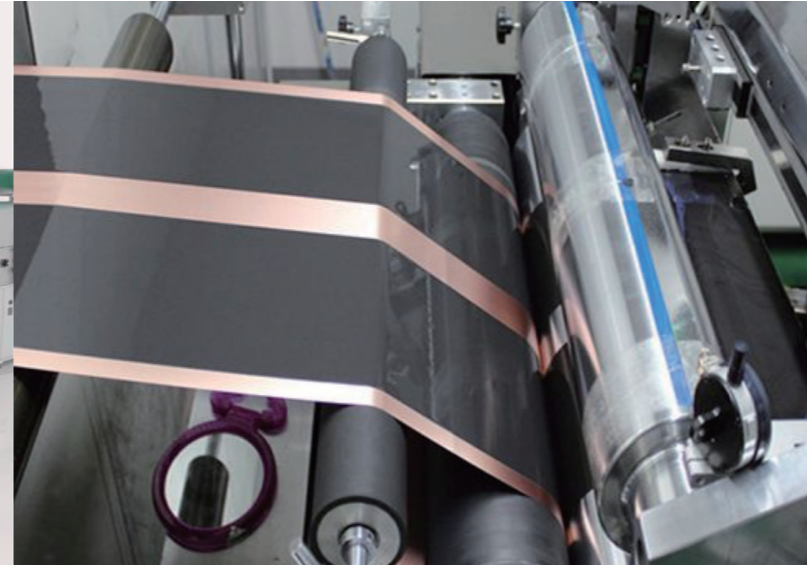
Both the positive and negative active materials, Thickener, binder, solvent through a certain proportion, The positive and negative electrode slurry is obtained through sufficient stirring in the slurry mixing tank. Stirring is generally divided into six types (homogeneous mixing, Liquid-liquid dispersion, gas-liquid dispersion, solid-liquid suspension (commonly used in batteries), solid dissolution (commonly used in batteries), crystallization), Suspension is suspended from the bottom-separated suspension-uniform suspension.



COATING 涂布

涂布就是指糊状聚合物、熔融态聚合物或聚合物溶液，就是锂电池行业中常说的电池浆料，涂布于薄膜。对于锂离子电池而言，涂布的薄膜我们称为集流体，一般是金属箔，通常正极集流体采用的是铝箔，而负极集流体采用的是铜箔。

Coating refers to a paste like polymer Molten polymer or polymer solution, It is commonly referred to as battery paste in the lithium battery industry, Apply to the film. For lithium-ion batteries, The coated thin film is called a collector, usually a metal foil, Usually, aluminum foil is used as the positive current collector, The negative current collector uses copper foil.



ROLLING 辊压

将附着有正负极材料的极片进行辊压，一方面让涂覆的材料更紧密，提升能量密度，保证厚度的一致性。另一方面也会进一步管控粉尘和湿度。

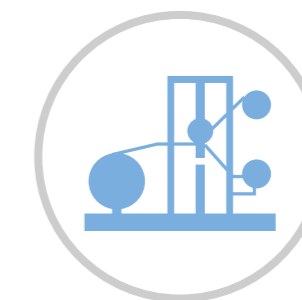
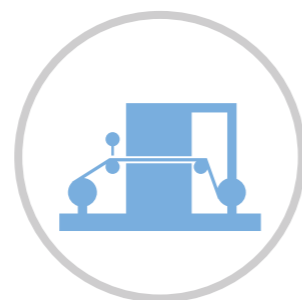
The pole piece with the positive and negative materials attached is rolled, On the one hand, it makes the coated material more compact, increase energy density, Ensure consistency of thickness. On the other hand, dust and humidity will be further controlled.



CUTTING 分切

多孔电极经过涂布及辊压后，需极片切割才能达到所需的设计结构和尺寸。极片切割主要具有三种方式：1、圆盘分切；2、模具冲压；3、激光切割；圆盘分切和模具的传统冲压方式，都是使用刀具或模具，利用材料受力后的塑性变形，产生裂缝后相互分离的原理来裁切极片。

After the porous electrode is coated and rolled, Pole piece cutting is required to achieve the required design structure and size. There are three main ways to cut pole pieces: 1. Disk slitting; 2. Die stamping; 3. Laser cutting; Disk slitting and traditional punching of dies, All use tools or molds to utilize the plastic deformation of the material after stress, The pole pieces are cut according to the principle of separating from each other after cracks are generated.



CHARACTERISTICS AND ADVANTAGES

特点和优势

1. 速比划分细

满足各种高低速运转需求

BIG RANGE OF REDUCTION RATIO AVAIABLE

Satisfy all kinds of high and low speed operation requirements

2. 高效节能

为您提供节能型三相电机，它不仅将为您提供卓越的效率，同时运行成本被大大降低

HIGH EFFICIENCY AND ENERGY SAVING

Provide you with energy-saving three-phase motor. It will not only provide you with excellent efficiency, At the same time, the operation cost has been greatly reduced.



3. 优质齿轮

作为享誉全国的齿轮减速机专业制造商，齿轮材质选用高强度低碳合金钢，经渗碳淬火和抛丸磨削，齿面硬度为 HRC58-62，芯部硬度为 HRC32-38。精度达到 6 级。

除此之外，我们与全国知名的轴承厂商“哈瓦洛”等精诚合作，选择满足设计要求的轴承，确保减速机整体品质

HIGH QUALITY GEARS

As a well-known professional manufacturer of gear reducer in China, The gear material is made of high strength low carbon alloy steel. After carburizing, quenching and shot blasting grinding, The hardness of the tooth surface is HRC58-62. The core hardness is HRC32-38. The accuracy is up to 6 levels. Besides, We cooperate with Havarro, a well-known bearing manufacturer in China. Select bearings that meet the design requirements. Ensure the overall quality of reducer



4. 专业润滑

不同的季节，以及白天和夜晚的温差，都会导致减速机润滑油膨胀和冷却，从而使减速机的油位调节显得非常重要，恒齿公司在新能源专用减速机上配置了膨胀油杯，确保对减速机的好润滑。

PROFESSIONAL LUBRICATION

Different seasons, as well as the temperature difference between day and night, Will cause the lubricating oil of the gearbox to expand and cool, This makes the oil level adjustment of the gearbox very important, EVERGEAR Company has equipped expansion oil cups on new energy dedicated reducers, Ensure good lubrication of the gearbox.

5. 减速机（含电机）

表面附件及喷涂材料不含铜锌。

REDUCER (INCLUDING MOTOR) SURFACE ACCESSORIES AND SPRAYING MATERIALS FREE OF COPPER AND ZINC.

6. 防腐处理

减速机长期运行在腐蚀性环境，其内外表面都做了特殊的防腐处理，电机采用的防护等级为 IP55 以上防腐电机，其防雨罩做喷塑处理。

ANTI-CORROSION TREATMENT

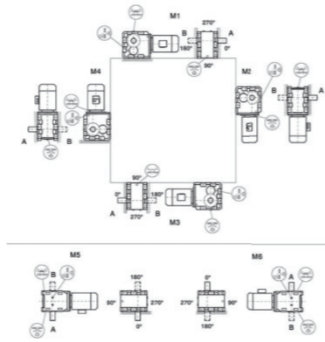
Long term operation of reducer in corrosive environment, Its inner and outer surfaces are treated with special anticorrosion, The protection grade of the motor is over IP55, Its rainproof cover does spray model processing.

10. 安装形式多样方便

VARIOUS INSTALLATION POSITION IS AVAIABLE

满足新能源减速机安装要求，大大提高了设备的自由度

Meet the installation requirements of new energy reducers, Greatly improves the freedom of the device



7. 安全密封

新能源专用减速机的输出轴上的密封，采用双油封形式，避免漏油的发生。

SECURITY SEAL

Special reducer for new energy The seal on the output shaft adopts a double oil seal form, Avoid oil leakage.



8. 防爆需求

EXPLOSION-PROOF REQUIREMENTS

9. 满足伺服驱动控制

MEETS SERVO DRIVE CONTROL

11. 提供电机与联接法兰之间的联接螺栓，方便客户直接安装

PROVIDE THE CONNECTING BOLTS BETWEEN THE MOTOR AND THE CONNECTING FLANGE, CONVENIENT FOR CUSTOMERS TO INSTALL DIRECTLY

INDUSTRY PERFORMANCE

行业业绩



CUSTOMER CASE

客户案例

