



旻成齒輪股份有限公司

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企業沿革

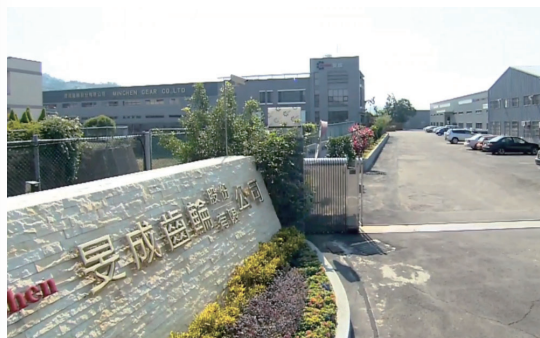
- 1993年 ● 成立
- 2005年 ● 通過ISO-9001 2000認證
- 2008年 ● 通過ISO/TS-16949認證
- 2010年 ● 購置土地
- 2011年 ● 新廠動土
 - 榮獲國家發明專利:『齒輪成型方法』專利證書
- 2012年 ● 榮獲國家發明專利:『直傘齒輪鍛造成形方法及其使用之模具』專利證書
- 2013年 ● 新廠落成
- 2017年 ● 通過ISO-9001 2015及新版IATF16949 2016認證
- 2019年 ● 榮獲第三屆台灣優良商標獎
- 2021年 ● 榮獲第20屆金手獎
- 2022年 ● 榮獲第25屆小巨人獎

主要產品

- 一、傘齒輪/戟齒輪
- 二、斜齒輪/正齒輪
- 三、鍛造齒輪
- 四、差速器/LSD限滑差速器
- 五、齒輪箱/減速機/方向機
- 六、中空旋轉平台
- 七、直齒/曲齒離合器

企業簡介

旻成齒輪股份有限公司成立於西元1993年，是台灣第一家高精度螺旋傘齒輪設計、製造的專業齒輪廠，在楊岳卿董事長的帶領之下，29年來一直秉持【技術領先、品質第一、服務至上】的經營理念，旻成齒輪不以高精度螺旋傘齒輪國產化的先驅者自滿，且不斷致力於技術創新、精進與突破；更榮獲兩張國家發明專利，為齒輪產業第一家。所生產的高精度齒輪產品主要應用於工具機、汽機車、船外機、堆高機與農業機等大中型機具產業。全廠設置了全台灣為數最多的美國Gleason系列齒輪製造設備：磨刀機、組刀機、切齒機、齒印嚙合測試機及研齒機，能執行各種Gleason公司所發展的切製法；也有德國Klingelnberg最新的齒輪檢測機、切齒機及齒研機。旻成以專業技術結合兩家工藝，滿足客戶要求。隨設備及生產技術不斷提升與精進，目前齒輪產品精度已可達航太等級的JIS0級，至今在國內齒輪製造同業中仍持續保有領先地位。作為專業的齒輪製造商，未來我們仍將秉持創新、進步的企業精神，持續提供具有競爭力的優良產品，以滿足顧客的需求與期望為主要宗旨，立足台灣，放眼世界。





國際競爭力

- 一、製造能力：累積豐富機械加工製程參數與數量龐大的刀具、模具，並具備上、中、下游供應鏈的技術整合豐富經驗，能快速協助客戶完成產品開發與降低開發成本，以爭取市場導入最佳時效創造競爭優勢。
- 二、研發能力：目前廠內開發人員 11 位中，其中有 8 位具有齒輪專業背景，分別是 2 位博士及 6 位碩士學歷，並擁有 2 項國家發明專利。可根據客戶之速比、馬力轉速、輸出扭矩進行客製化齒輪箱的設計，可進行齒輪受力後的運動曲線模擬、壽命計算、機械強度、傳動效率等分析與測試，可協助客戶解決齒輪與齒輪箱從設計到製造的問題並提出確切有效的解決方案。
- 三、品質能力：通過 ISO9001/IATF16949 系統認證，並取得美國、德國、日本等多國原廠產品認證。不斷的引進最先進的生產及檢驗設備，以確保產品應用效能，提供 MIT 製造比肩歐美日品質的高價值型 OEM/ODM 齒輪應用服務。
- 四、業務行銷能力：持續參與美國、日本、歐洲等國際性專業展會及拓銷團增加曝光機會，通過產品認證與國際一線大廠對接，擴增產品應用領域與銷售渠道。



營運管理

- 一、經營理念：品質至上、創新卓越、共同成長、永續經營、佈局全球。
- 二、經營願景：成為產業界的標竿企業，帶領企業、員工與社會共存共榮。
- 三、經營目標：成為全台灣甚至全世界最好的齒輪設計製造商，邁步前進；跨足國際。
- 四、行動計畫：短期 _ 穩固精密齒輪 OEM 代工服務、中期 _ 齒輪 ODM 代工與齒輪箱應用服務並重、長期 _ 續齒輪箱業務之拓展並加速電動汽車、自動化產品的開發。



綜合評語

- (1) 主要從事傘齒輪、斜齒輪、正齒輪、鍛造齒輪等設計加工製造，主要出口至日本、美國、澳大利亞，為臺灣第一家從事高精度螺旋傘齒輪設計製造之專業齒輪廠。
- (2) 取得多項認證，朝智慧化生產線邁進，導入閉迴路製造技術及雲端科技，利用大數據分析優化製程，提升生產效率。
- (3) 呼應綠色經營理念，空壓機已改用變頻、申請增設太陽能發電板、新建廠房採納綠建築規範。

MINCHEN GEAR CO., LTD.

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Business Items

- Spiral bevel gears, Straight bevel gears, Cylindrical gear
- Spur gear, Helical gear
- Forging gear,
- Differential, Limited Slip Differential.
- Gear Box, Speed Reducer, Direction machine.
- Hollow Rotary Table
- Straight Teeth Clutch, Curve Clutch



History

- 1993** • Established in 1993.
- 2005** • Passed ISO-9001 2000.
- 2008** • Passed ISO/TS-16949.
- 2010** • Land reserved
- 2011** • Groundbreaking Ceremony
 - Awarded patent certificate of gear forming method in 2011.
- 2012** • Developed forging straight bevel gear forming of method and mold of patent certificate in 2012.
- 2013** • New Factory Inauguration Ceremony.
- 2017** • Passed ISO 9001 2015 and IATF 16949 2016 .
- 2019** • Awarded of best trademark in Taiwan
- 2021** • Awarded of Golden Hand Award of outstanding SMES.
- 2022** • Awarded of Rising Star Award.

Introduction

Minchen gear was established in 1993 and is the most experienced, specialized developer and manufacturer of bevel gears in Taiwan. As the first gear company in Taiwan that is awarded two national invention patents, Minchen's discipline has remained the same for 29 years: Innovation, Quality and Satisfaction. The gears we produce are mostly applied to machine tools, vehicles, outboard motor, stacker and agricultural machines. Furthermore, the entire factory is equipped with GLEASON and KLINGELNBERG machines: Minchen owns the most GLEASON machines in Taiwan: hypoid cutter sharpeners, cutter inspection machines, hypoid generators, hypoid testers, hypoid lappers that can carry out any cutting methods developed by GLEASON. Moreover, Minchen also has the newest KLINGELNBERG gear testing machine, gear cutting machines and gear grinding machines.





Combine the professional techniques of GLEASON and KLINGELNBERG, Minchen is competent to achieve customers' requirements. With the more advanced equipment and production technology, the accuracy of our gear products has reached the JISO level of aerospace grade. So far, Minchen is in the leading position of domestic gear manufacturing industry and in the future, we will keep providing competitive and excellent products to achieve the needs and expectations of our customers.

Export Competitiveness

- I. Manufacture Ability: We accumulate data of machining and procedures and big amounts of cutters and molds. We also have many experiences to integrate upstream, midstream and downstream supply chain's technology, allowing us to develop the products very fast and to lower the cost of RD to create the competitive advantages at the best time into the market.
- II. Development Ability: We have eleven RD engineers; eight of them have gear background with two PhD and six master's degree educations. We also have two National Invention Patents that enable us to design customized gear box according to customer's ratio, rpm and output torque. We could proceed the test and analyze the motion curve simulation, life test calculation, mechanical strength, transmission efficiency, to solve the issues from gear to gear box, from design to manufacture and provide good solutions.
- III. Quality Ability: We have passed ISO9001/IATF16949 certificate and own many certificates from USA, Germany and Japan original products. Also, we possess the newest manufacture and inspection equipment to ensure the effective application of our products, providing high value MIT OEM/ODM gear application service.
- IV. Marketing business Ability: We continuously attend international professional expo and sales group of USA, Japan and Europe to increase exposure rate. Through product certificate and getting in touch with international TOP 1 factory, we are expecting to expand the application of the product and distribution channel.

Operation Management

- I. Operation Philosophy: Quality First, Innovation, Sustainable development, and Globalization
- II. Business Vision: To become benchmarking enterprise of the industry. Leading our team and employees to prosper with the society.
- III. Business Target: To become the best gear design manufacturer of the world.
- IV. Action Plan: Short term: Focus on precision gear OEM service. Medium term: ODM in gear and also focus on management in gearbox application. Long term: continue to expand the gearbox business, and development of electric vehicles and automation products.

