

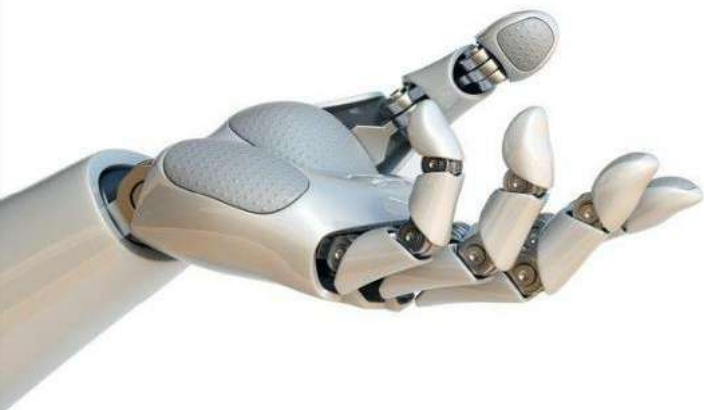
和大工業股份有限公司(1536.TW)

Hota Industrial Mfg. Co., Ltd.

法人說明會

Investor Briefing

沈千慈
2026.07.22



**TAIWAN TOP
1
GEAR MAKER**

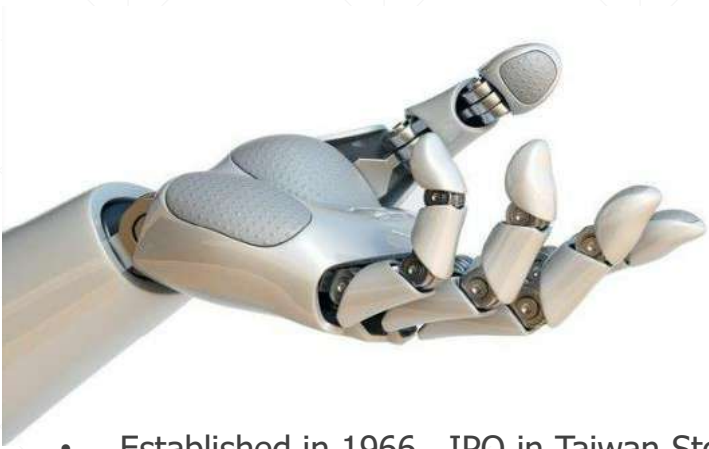
**OVER
60 YEARS
KNOW - HOW**

**PRODUCE
>20 MILLION
PIECES/YEAR**

- 和大成立於1966年，於2001年成功上市。
- 核心競爭力在於高精密傳動系統零組件之設計與製造，為客戶創造高附加價值。
- 為歐美日車廠之一階供應商，亦為多家國際一階客戶的主要合作夥伴。
- 產品應用於電動車、燃油車、重機、航太、機器人、電輔車、農機及產業機械。
- 建構鍛造、軟加工、熱處理至精密加工之完整垂直整合製程。
- 配備高精密檢驗設備，實現與客戶標準同步，有效降低檢驗誤差及縮短比對時間。
- 自製並銷售高精度齒輪加工、檢驗及智能自動化設備。



Rotation Creates Advancement • Advancement Makes Perfection
 因 轉 動 而 前 進 • 因 前 進 而 精 進



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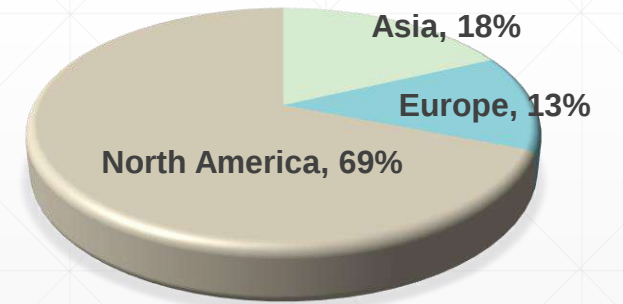
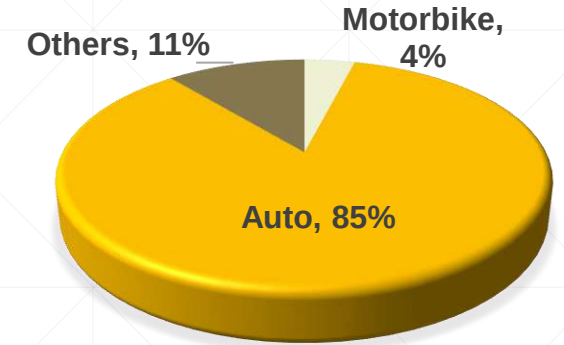
**PRODUCE
>20 MILLION
PIECES/YEAR**

- Established in 1966. IPO in Taiwan Stock Exchange in 2001.
- Core competency in high precision powertrain component design & manufacturing to deliver high valued-added to customers.
- Major Tier 1 supplier for global OEMs in the US, EU and Japan, and serve as a key strategic partner for multiple global Tier 1 customers.
- Application includes automotive, EV, motorcycles, aerospace, robotics, e-bikes, agriculture, and industrial machinery.
- Vertical process integration includes forging, soft finishing, heat treat and hard finishing.
- High-Precision Inspection Equipment: Syncing with customer standards to reduce alignment errors and accelerate verification times.
- Develops & sales various types of machines, inspection equipment & automation equipment for high precision gear.



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Global Footprint



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Core Competency

變速箱零組件 Transmission Components and Assemblies



傳動軸 Drive Shaft



差速器 Differential



扭力轉換系統零組件 Components for Torque Transfer System



➤ 減速箱齒輪組及差速器 Reduction Gear Box and Differential



➤ 電機軸及馬達軸

Generator and Rotor Shafts



Application



APPLICATION

Automotive Transfer Case & AWD Components

產品應用 | 汽車分動箱及四輪驅動零組件



APPLICATION

Super Car Engine & Transmission Components

產品應用 | 超級跑車變速箱零件



APPLICATION

Agriculture Tractor Transmission Components

產品應用 | 農機變速箱零組件



Application



MERITOR

SCANIA

R730

EFF 816

APPLICATION

Heavy-duty Truck Drive Shafts & Suspension Arm

產品應用 | 卡車傳動軸&懸臂



AEROSPACE

APPLICATION

Rocket Engine & Satellite Components

產品應用 | 火箭推進器零件&衛星零件



BMW

APPLICATION

Motorcycle Gearbox

產品應用 | 重型摩托車齒輪箱組



Application

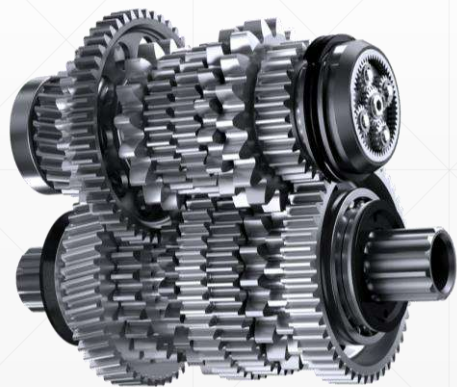


E-bike Reduction Gearbox

高精密高效能電輔車變速齒輪組 Gearbox Components



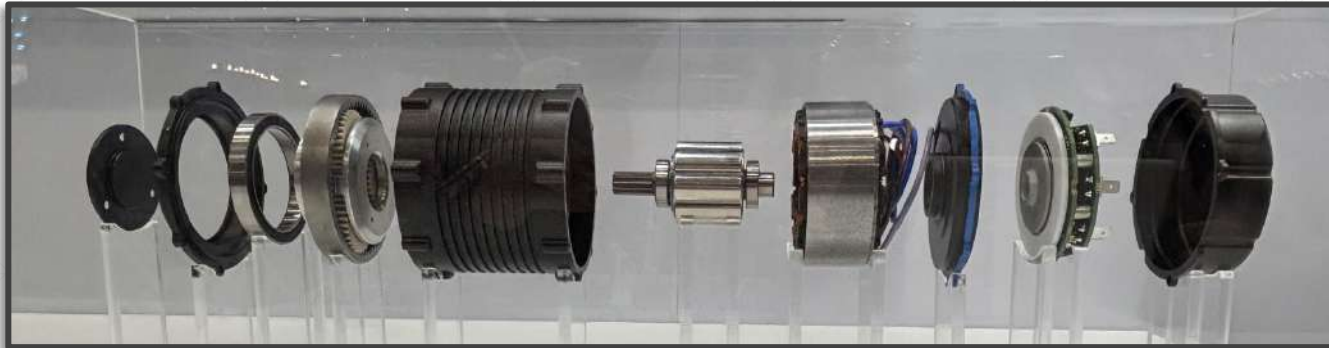
ODM電輔車中置電機 Mid-drive Unit



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Humanoid Robot Components

諧波減速器
Harmonic Drive
行星減速器
Planetary Gear
複合材料
Composite Material



脖子 Neck
肩膀 Shoulder
腰 Waist
髖關節 Hip Joint



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材料冶金

- 金相組織檢測儀
- 勃式硬度檢測儀
- 維式硬度檢測儀
- 洛式硬度檢測儀
- 分光儀

齒形測定機

- 齒形測定機
- 嚙合測試機
- 單齒腹齒輪嚙合測試機

檢驗能力

幾何及尺寸類

- 三次元量測儀
- 真圓度檢測儀
- 輪廓儀
- 光譜儀
- 非接觸式影像量測儀及投影機
- 面粗度儀
- 電子檢具
- 高度規

非破壞性檢測

- 裂痕檢測儀 (超音波檢測儀 / 渦電流 / 敲擊法 / 磁粉探傷)
- 鹽霧測試機
- 清潔度檢測儀 (vacuum / ultrasonic)
- 齒輪研磨燒灼測試 (蝕刻法 / 感測法)

Metallurgy

- Microstructure tester
- Hardness testers: Brinell, Vickers, Rockwell
- Spectrometer

Gear Measurement Machine(GMM)

- Gear tester
- Mesh tester
- Single flank rolling

Inspection Capabilities

Geometry & Dimensional

- CMM
- Roundness tester
- Contour measuring
- Optical contour
- VMM (Micro view 2.5D) & Projector
- Roughness tester
- Electronic gages
- Height gage

Non Destructive Test

- Cracking test include ultrasonic tester, eddy current, resonant acoustics inspection system (RAIS), magnetic particle inspection (MPI)
- Salt spray tester
- Cleanliness tester (vacuum & ultrasonic)
- Grinding burn detection include nital etch and Barkausen sensor

1

軟加工製程

車削
銑削
鑽孔 / 槍鑽
轉造 (rack/roller)
拉齒
冷軸向花鍵成形
滾齒
鏟齒
刮齒

2

硬加工製程

硬滾齒
硬拉齒
外徑 / 內徑 / 表面研磨
珠擊
校直
齒研
珩齒

3

其他重要製程

冷鍛 / 熱鍛
熱處理，包括滲碳 / 高週波 /
正常化 / 調質 / 深冷處理 / 真
空處理
電子束熔接
雷射焊接
雷射切割
線切割
刀具磨銳與塗層
各式組裝及測試，包括差速
器模組 / 電動車減速箱 / 摩托
車變速箱

1

Soft State Finish

Turning.
Milling.
Drilling, gun drilling.
Spline rolling (rack/roller).
Broaching.
Cold axial spline form.
Gear hobbing.
Gear shaping.
Gear shaving.

2

Hard Finish

Hard hobbing.
Hard broaching.
OD / ID / surface grinding.
Shot peening.
Straightening.
Gear grinding.
Power honing.

3

Other Critical Processes

Cold and hot forging.
Heat treatment include carburizing, induction hardening, normalizing, quench & tempering, cryogenic treatment, vacuum treatment.
Electronic beam welding.
Laser welding.
Laser cutting.
Wire DEM.
Cutter re-sharpening & coating.
Assembling & EOL testing include differential and gearbox for all applications.

Quality System Certification

Premium Quality



IATF 16949
Quality Management System for the Automotive Industry
汽車業品質管理系統認證

AS 9100
Quality Management System for the Aerospace Sector
航太品質管理系統認證

ISO 45001
Occupational Health and Safety Management System
職業安全衛生系統認證

ISO 50001
Energy Management System
能源管理系統認證

ISO 14001
Environment Management System
環境管理系統認證

ISO 14064
Greenhouse Gas Emissions Verification
組織溫室氣體盤查與查證

ISO 14067
Verification of Product Carbon Footprint
產品碳足跡查證

ISO 27001
Information Security Management System
資訊安全管理系統認證



精密傳動科技領航者
臺灣第一、全球領先

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Advancement Makes Perfection

Thank You

*Looking Forward to Being Your
Best Global Strategic Partner*

www.hota.com.tw

Taiwan - USA - China - Japan