



FUKUTA®

富田電機股份有限公司

Fukuta Elec. & Mach. CO., LTD.



董事長 張金鋒先生
Chairman: Mr. Chang, Chin-Feng

負責人：張金鋒

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推薦單位：1.財團法人車輛研究測試中心

2.國立高雄應用科技大學

營業項目：1.電動機、發電機、減速機及各種電機之開關製造裝配加工買賣

2.前各項產品之器材製造加工買賣(原料材料工具及工作母機等)

產品名稱：1.標準型、輕量型低壓三相感應電動機

2.變頻馬達、變頻專用馬達

3.交流感應伺服馬達、交流同步伺服馬達

4.減速機、變頻器、伺服驅動器及各類傳動零組件

5.全電式電動車、電動巴士、電動船等專用動力馬達

6.風力發電機組

Owner : Chin-Feng Chang

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Recommended by :

1.Automotive Research & Testing Center(ARTC)

2.National Kaohsiung University of Applied Sciences (K.U.A.S)

Business Items :

1.Motor, generator, gearbox and variety of motor design and manufacturing.

2.Above items manufacturing and process equipment. (materials and tools or machine tools, etc.)

Main Products :

1.IEC AC Induction Motor.

2.Inverter/Inverter Duty Motor

3.AC Induction Servo Motor, Synchronous Servo Motor

4.Gearbox, inverter, servo driver and all kind of transmission accessories.

5.Motor for pure electrical vehicles, electric bus, electric boat and other customized application.

6.Wind turbine.



標準馬達 IEC AC Induction Motor



感應伺服馬達 AC Induction Servo Motor



變頻專用馬達 Inverter Duty Motor



電動載具馬達 Motor for Pure Electrical Vehicles



<http://www.fukuta-motor.com.tw>



作業情形 Production Line

富田電機由創辦人張金鋒先生創立於1988年。馬達為產業之動力來源亦為機械工業動力傳動不可或缺的元件。富田不但是馬達供應者，也是自動化機電整合整體解決方案的提供與諮詢者。隨著環保意識的抬頭以及科技的進步，傳統產業勢必要朝向高效率與節能方向轉型、創新方能有競爭力。

苟日新、日日新、又日新

求新，不要一成不變！所以富田積極投入綠能與節能研發，1997年投入伸線專用變頻轉矩伺服馬達的研發，降低國內伸線業、螺絲製造業與紙棧板製造業者製造成本，得以進軍海外，同時節約外匯，迫使進口伺服馬達降價；2005年投入綠能—永磁外轉子發電機及其應用垂直式風力發電機、水產養殖節電曝氧機等產品，自有永磁外轉子馬達與輪轂馬達技術，吸引日本業者委託製造外轉子發電機並銷往日本。2006年投入高效率馬達與銅轉子馬達之研發，吸引電動車車廠的注意。經過嚴苛的測試

與製程驗證，擊敗其他競爭者，取得電動跑車馬達的製造合約，同時投入電動清運車(垃圾車)電動壓縮艙之研製，有效減少電動清運車業者製造成本。

要求品質 客戶為先

設計技術與製程品管如同逆水行舟不進則退，產品品質穩定可靠是確保客戶與

服務客戶的最佳準則，尤其汽車車廠對品質要求甚高，故積極引進ISO/TS16949品管方法與策略。為激發員工潛能與參與度，將客訴等議題列入會議討論與檢討。員工亦能自我要求，做好自主性管理，期使達到零客訴之目標，因為客戶高滿意度就是最好的廣告。

不斷創新 增加產品競爭力

中國的崛起為企業帶來挑戰，中國製產品對全球物料供應鏈帶來衝擊，為減少紅色供應鏈帶來之影響，唯有不斷創新產品，給予產品新生命、新價值以增加競爭力。正因為能本著「苟日新、日日新、又日新」之精神，富田成立近30年來，不僅平安渡過1997年的金融風暴，由初期簡易廠房到如今嶄新工業標準廠房，產品也由傳統交流感應馬達、變頻專用馬達、伺服馬達、輪轂馬達、外轉子風力發電機、IE2/IE3高效率馬達演進到電動車銅轉子馬達等，並獲得數十項專利。筆路藍縷、辛勤耕耘，實為富田電機一路走來的最佳寫照。



三次元量測 3D Measurement

的市場遂為兵家爭奪之所在。富田無雄厚之資金購買技術，靠自行研發取得銅轉子高效率馬達製程專利，以及對核心技術的掌握，贏得歐美日車商的信賴。富田相信，時機不好更應朝新技術之研發與精進，研發人員更應提出次一世代之產品新技術，以期注入公司產品的新生命。

惜福惜緣 誠心正意

擁有核心技術 穩固根基 看遠未來

富田藉由參加世界各地工業展打開知名度，如德國漢諾威世界工業自動化展、美國電動車展及東協泰國工業自動化展等，讓臺灣富田FUKUTA能被世界所熟知，進而以自有品牌進軍美日等國並取得專利；也藉由參展學習，吸收先進國家的經驗，省思自有產品進步的空間。近年來歐美日等科技先進國家積極推動節能減碳，尤其以工業耗能與交通工具耗能之污染為甚，因此高效率馬達與銅轉子高效率馬達

富田秉持飲水思源，以「惜福惜緣、誠心正意」，回饋社會的經營理念，不僅推動鄉里生態環保認養，也對弱勢團體進行關懷、參與與贊助。以將青山綠水的美麗臺灣留給子孫為願景，積極投入綠能研發，並以永續經營為目標進行人才培育，鼓勵員工在職進修，提供學校獎助學金等；亦與產官學界進行多項技術的策略聯盟及研究，且與多所學校簽訂產學合作及人才培育計畫。未來，富田也將堅持朝「根留臺灣，胸懷世界，永續經營」的目標邁進。■



全體員工早操 Staff Morning Exercises



員工教育訓練 Staff Education and Training



富田文化室 Fukuta Culture Room

Innovation, the pursuit of customer satisfaction and sustainable management

Fukuta was established by Gordon Chang in 1988, starting as a motor manufacturer to produce the essential source for the industrial power transmission. Not only being a motor supplier but also providing total system solution and consultation. With environmental consciousness and technological advancements, industrial transformation is an important issue for the conventional industries which should be develop toward high efficient and energy-saving to be more competitive.

If you renew yourself for one day, you can renew yourself daily, and continue to do so.

FUKUTA keep going forward for more product development and dedicated to research on the field of green energy and energy-saving. The development project of servo motor for drawing machines used in 1997 decrease the production cost for the manufacturer as drawing machines, screw machines and paper made pallet and export these machine to oversea market. Moreover, the development of servomotor also forced the import product to decrease the price in Taiwan market. In 2005, we keep developed the green energy product generator and its application, vertical wind turbine and aerator of an aqua-farm. With our own technology, Fukuta attracted the Japanese company to work on OEM project and sold to Japan. We started to develop high

efficiency motor and copper rotor in 2006 and its quality catches EV carmaker's attention.

The stability of product quality is the optimal criteria to retain the customer, especially for the EV carmaker. We build our quality system on ISO/TS16949 structure and keep improvement, for example, we treat every customer complain as an important issue and its become one of the necessary issues for the monthly directors meeting to have more solutions and improvement through the brainstorm. Every member makes continuous effort to provide a good quality to our every customers, high customer satisfaction is the best advertisement for FUKUTA.

Innovative and strengthen the product competitive.

The rising of China and its products become more powerful and affect the global material supply chain. The only way to reduce the economic damage from red supply chain is to constantly innovate, increase a new value to the product instead of refusal to change. Keep going forward is the principle of



作業情形 Production Line



FUKUTA, our product line has been expanded from AC standard induction motor, inverter motor, servo motor, wheel motor, wind turbine, IE2/IE3 high efficiency motor to EV motor and copper rotor and owned several patents.

No recession but depression!

Through attending the international shows, FUKUTA has been steadily gaining ground in the motor market and learn the state of art technology from these experience, we also think what we could do to improve our product and how we could have more opportunity to promote our product to the international market.

In recent years, the advanced countries promote to energy saving and carbon reduction, especially for the energy consumption on industry and the pollution of vehicle. As a result, every company started to develop high efficiency motor and cooper rotor and try to play a role on this market. FUKUTA don't have abundant capital but we develop the technology

by own ourselves and get the reputation of EV car marker from America, Japanese and European countries. Even on the recession, we should keep development and advancement our own technology to give a new life to the product.

Be pragmatic and excellent

With the gratitude for the source of benefit, FUKUTA participate to adopt and promote the eco-environmental protection and subsidize to the disadvantaged family. We develop into green-energy technology field and hope to give a clean environment to our descendants, besides, we cooperate with several universities to have on-the-job training course and provide scholarship to encourage our staff. FUKUTA will insist on “continuous operation in Taiwan and bridge to the world” for the future.



國外員工旅遊-日本 Foreign Staff Travel-Japan



國內員工旅遊-桃園 Domestic Tourism Employees-Taoyuan



綜合評語 Commentary

為全國第一家投入變頻專用馬達、交流感應伺服馬達研發之專業馬達製造廠商。公司注重研發，擁有多項專利，以研發能力及快速交期見長，在業界已塑造「馬達問題解決者」之優良企業形象。近年與美國電動車大廠合作，順利跨入電動車產業鏈，營收逐年增長，獲利情形良好。並能秉持「根留臺灣」之原則，足堪楷模。

As Taiwan's first specialist motor manufacturer to embark on the research and development of inverter/invert duty motors and AC induction servo motors, Fukuta is characterized by research and development and has many patents. It is famous for its R&D capabilities and short lead-time, which have earned it the fame of being the “motor problem terminator.” With this excellent corporate image, it has started cooperating with leading US electric vehicle makers in recent years to successfully enter the EV supply chain. The annually increasing sales manifests in its high profitability. Most importantly, it deserves as an exemplar of outstanding SME for its “cultivation of Taiwan.”