

The Introduction of Taiwan Water Corporation

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Aqua A-Team. Taiwan (AATT)

**台灣水資源精英團隊**

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**汙水處理**

## 1. Taiwan Water Corporation

### Chairman **Kuo, Chun-Ming**

Title :

Chairman of Taiwan Water Corporation (TWC)

Education :

Bachelor degree of Material Engineer in National Cheng-Kung University

Experience :

- Legislator ( 5<sup>th</sup> & 6<sup>th</sup> )
- Provincial congressman ( 10<sup>th</sup> )
- National Excellence Environment Protection Volunteer ( 1<sup>st</sup> )
- President of Eco-Environment Association in Da-Jia River
- President of Rotary Club
- GM of Yang-Te Technology Company
- Engineer of SANPANY



### General Manager **Hu, Nan-Tzer**

Title :

General Manager of Taiwan Water Corporation (TWC)

Education :

Master degree of Environment Engineering Department in National Cheng-Kung University

Experience :

- Deputy General Manager of TWC
- Chief Engineer of TWC
- Manager of 2<sup>nd</sup> Branch of TWC
- Manager of Public Works Dept. of TWC
- Engineer of Water Supply Dept. of TWC
- Engineer of 6<sup>th</sup> Branch of TWC
- Section Manager of 11<sup>th</sup> Branch of TWC











## 一、台灣自來水公司

### 首長

#### 董事長 郭俊銘

現職：台灣自來水公司董事長

學歷：國立成功大學材料工程系學士

經歷：

- 立法院立法委員 (第 5、6 屆)
- 台灣省議會省議員 (第 10 屆)
- 全國特優環保義工 (第 1 屆)
- 大甲溪生態環境維護協會會長
- 扶輪社社長
- 揚特科技公司總經理
- 三光儀器公司工程師



#### 總經理 胡南澤

現職：台灣自來水公司總經理

學歷：國立成功大學環境工程學系碩士

經歷：

- 台灣自來水公司副總經理
- 台灣自來水公司總工程師
- 台灣自來水公司第二區管理處經理
- 台灣自來水公司工務處處長
- 台灣自來水公司供水處工程師兼組長
- 台灣自來水公司第六區管理處工程師
- 台灣自來水公司第十一區管理處課長



台灣自來水公司(以下稱台水公司)擁有 144 個供水系統，是全世界最大的水務公司，每日產水量超過 860 萬噸，水源來自河川、水庫、地下水、鹽化水及海水等不同的水源，供應約 1800 萬人，管線總長度超過 60,000 公里。全體員工數約 5,400 人，分別由 12 個區管理處經營管理，3 個區工程處執行工程規劃及施工，總公司 15 個部門負責各項業務之規劃、推動。

在 30 年前，台灣經歷了工業快速發展所帶來的水質汙染問題，而這些年來為因應這些水質處理的困境，產官學界共同研究開發了許多高級淨水處理技術，如薄膜技術；近年來，台灣亦經歷極端氣候、旱澇不均的供水危機，台水公司發展了颱風汛期、停電不停水的穩定供水機制，諸如石門水庫分層取水、中庄調整池、南化水庫壩頂取水、南化高屏聯通管、開發伏流水等。這些經驗與技術已達國際水準。

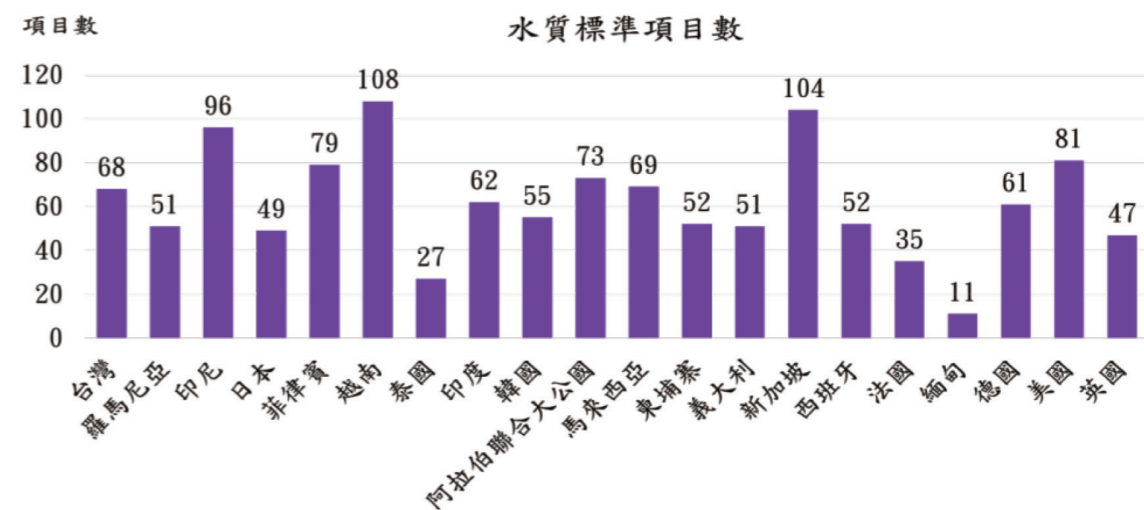


## 二、高級技術處理受工業、畜牧污染水源

高雄市是沒有水庫之大都會，人口約 277 萬人，20 年前水源高屏溪曾經遭到工業廢水、數百萬頭養豬畜牧廢水嚴重污染，為改善飲用水源水質，高屏溪採取離牧政策，台水公司配合建立全國第一套高級技術處理設備，使用的活性碳過濾、UF+RO, 台灣擁有專利技術的 Bio Net 生物科技，有效降低水質硬度並改善口感。高雄各淨水廠每日供水約 155 萬噸 (17,940 L/S)，已經將過去民衆買水飲用習慣完全改變，可以直接飲用自來水。

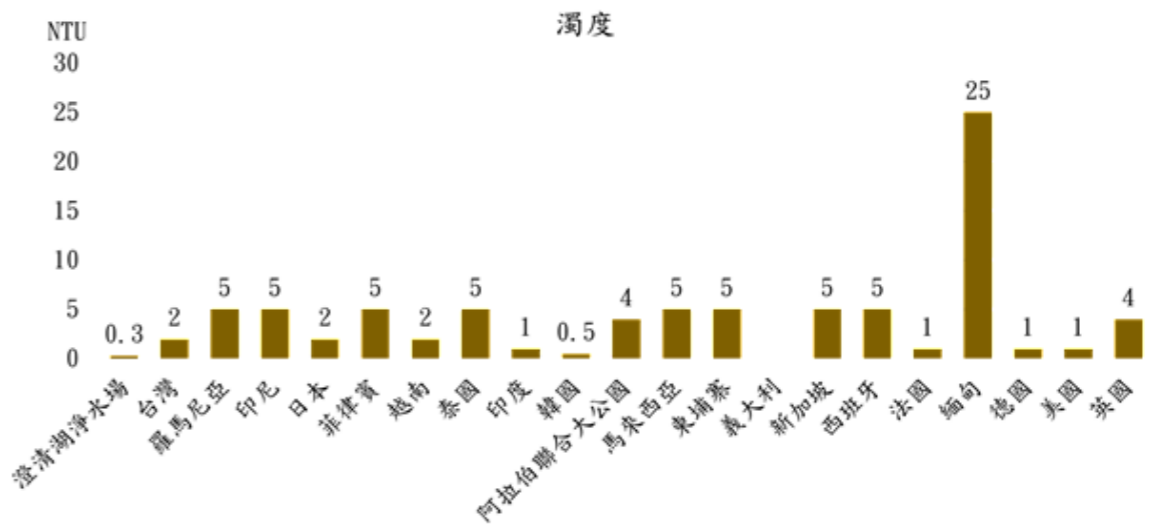
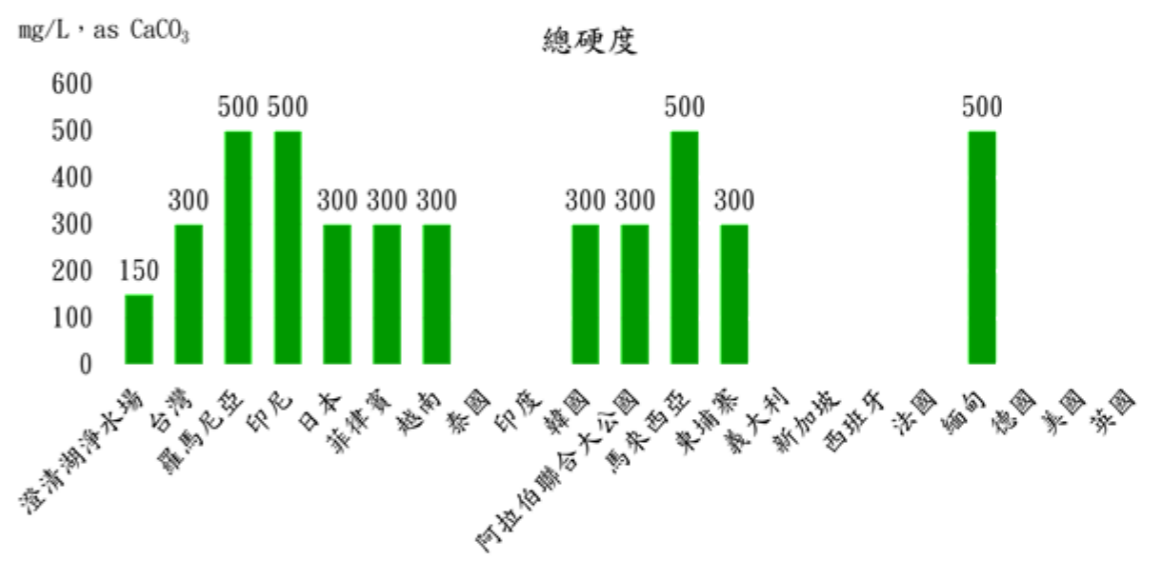
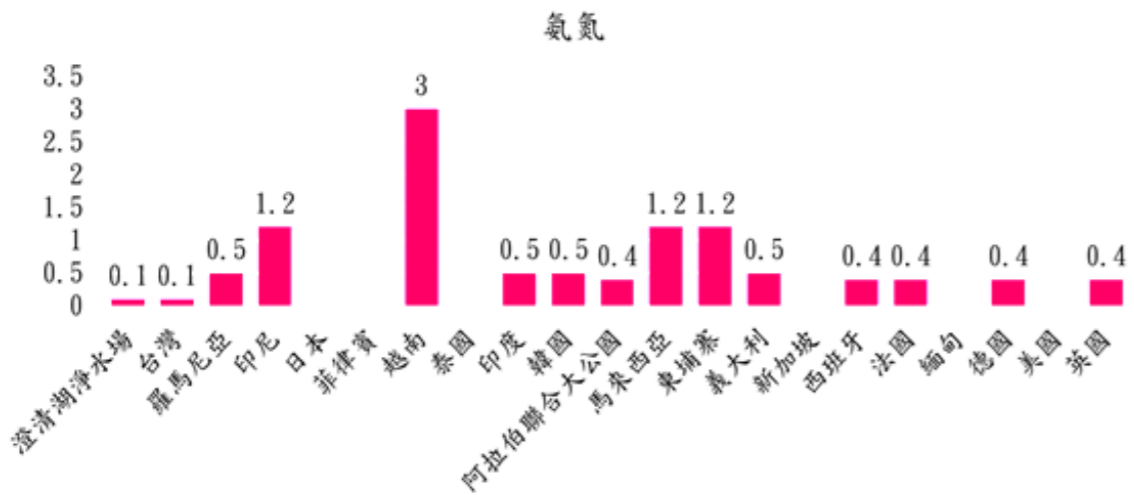
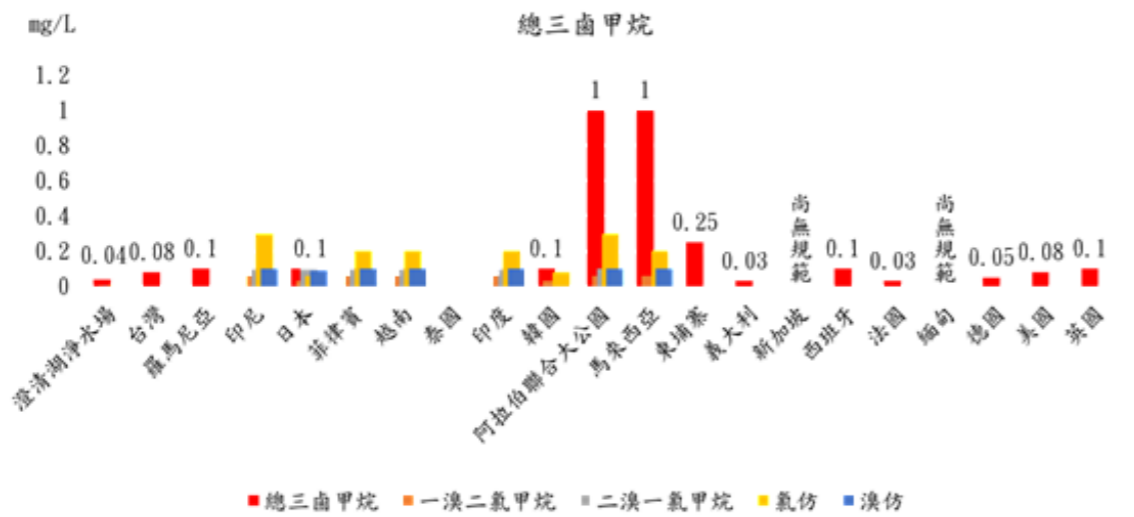


### 各國飲用水水質標準比較





澄清湖淨水場清水水質與各國水質標準比較



台水為國人健康把關 每年自行檢驗超過215,000項次  
環保署與各縣市環保局每年不定期抽驗9,400件以上 合格率達99.94%以上

使用世界上最精密儀器檢驗水質

- 檢測水中氯乙醯類 (HAAs) 及有機氯農藥  
氣相層析儀/電子捕獲偵測器 (GC/ECD)
- 檢測水中消毒副產物  
自動液相層析儀  
氣相層析儀/電子捕獲偵測器
- 檢測水中重金屬含量  
感應耦合電漿質譜儀 (ICP/MS)
- 檢測水中臭味物質 (Geosmin/2-MIB)  
氣相層析儀 (GC/MS)
- 檢測亞胺化劑、環境荷爾蒙及有機磷農藥  
高效能液相層析/串聯式質譜儀 (HPLC/MS-MS)

### 三、擁有多國專利技術

東港溪上游受到農業、畜牧業及生活污水影響，溪水長期優養化並含氨氮、總有機碳（TOC）非常高。台水公司採用台灣自行研發建立全國第一套生物（BioNET）淨化處理，有效去除汙染源中高含量的氨、氮，有效降低總有機碳，達到符合自來水水質標準。對於飽受汙染之水源，台灣已擁有先進技術可以去除農業、畜牧業及生活污水汙染。



### 四、處理高濁度原水能力

#### （一）中庄調整池

過去颱風汛期期間或是豪雨季節，台灣的河川濁度飆高，使得台水公司轄內各淨水場處理能力大幅下降，為穩定供應新北市、桃園市 3 百萬人飲用的主要水庫。石門水庫下游設置中庄調整池，可以提供 6.2 日（約 492 萬噸）的清潔水源，每日供應板新給水廠 50 萬噸（5,700 L/S）及大湳給水廠 30 萬噸（3,500 L/S）供水，已使颱風期水質濁度升高時，民衆仍有量足質優之自來水可用。



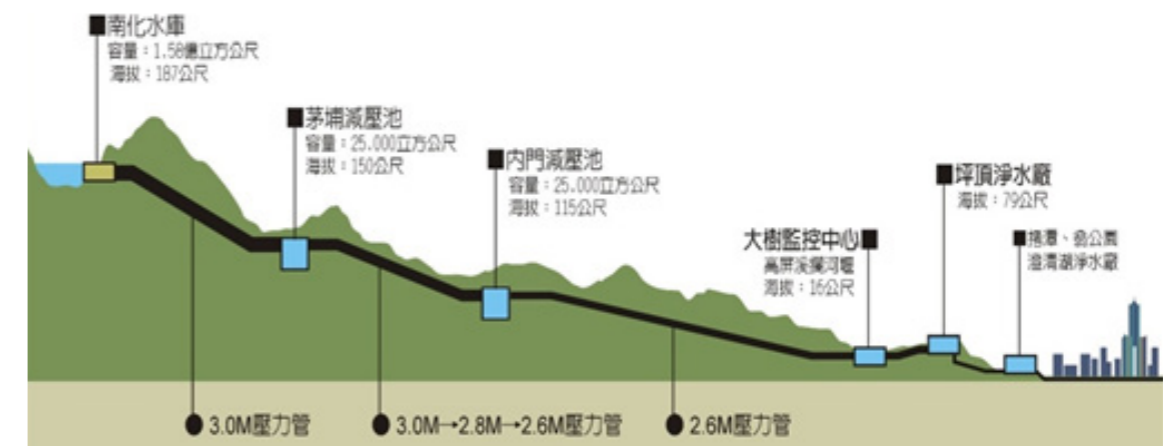
#### （二）南化壩頂取水

為了在颱風或豪大雨期間能夠取得濁度較低的原水，台水公司在南化水庫設置了壩頂取水的工程，當濁度超過 6,000NTU 時，壩頂取水設施就會啟動，抽取水面濁度較低的水，每日可以抽取 100 萬噸（11,500 L/S）供應台南 60 萬噸（6,900 L/S）、高雄 40 萬噸（4,600 L/S）提供台南地區及高雄地區市民每天使用。



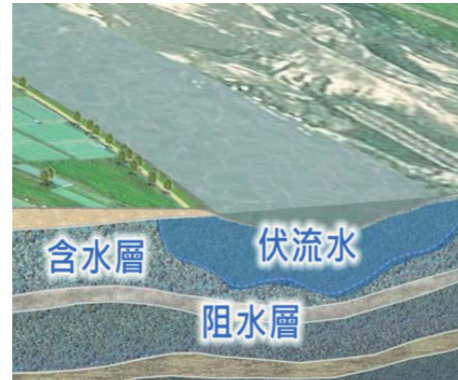
#### （三）南化高屏聯通管

為了讓沒有水庫的高雄市在枯水期間或是汛期洪水季節濁度太高無法引用高屏溪水源，透過 58 公里長 2,600mm 直徑鋼襯預力混凝土管（PCCP），由南化水庫取水供應輸送至高雄市淨水場，每日導水量約 45 萬噸（5,208 L/S），屬於不同縣市北水南送緊急調度供水系統。



#### (四) 伏流水工程

許多國家都面臨河川高濁度問題，高屏溪是高雄市 277 萬人口最重要的水源，梅雨季颱風期間河川原水濁度經常飆高到 25,000 NTU 以上，大幅降低淨水場處理能力，台水公司在高屏溪砂石沖積層埋設不鏽鋼過濾管系統，最高每日可抽取潔淨的伏流水約 22 萬噸（2,500 L/S）以上，濁度僅有 0.5 NTU，大幅降低原水濁度飆高的壓力，未來台水公司將擴大增加約每日 40 萬噸（4,600 L/S）的伏流水供水能力。



#### 五、海水淡化廠

澎湖縣因屬海島地型，年平均降雨量約 1,000mm，水資源缺乏，歷經了台水澎運、軍艦協助送水時代。自來水供應水源，從 1970 年代完全以開鑿地下深水井水源，接續朝向地面水源開發，前、後興建成功、興仁、東衛等八座水庫，因地面水蓄水量同樣受到年降雨量影響，水源仍有不足。1996 年以後，自來水公司積極開發興建鹽井水淡化廠與海水淡化廠，海淡水供應每日 1.4 萬噸（165 L/S），目前已由「補充水源」轉型為「主要水源」，提供澎湖地區量足、質優且穩定的自來水，目前台水公司海淡廠設備系統係台灣製造，已穩定使用 20 年以上。



#### 六、解決地層下陷問題

台灣自來水公司配合湖山水庫計畫之推動，斥資新台幣一百三十億元（US\$430,000,000），建置前處理設備、湖山淨水場及下游輸水管網，解決雲林地區地下水超抽造成之地層下陷問題，每日總供水量約 60 萬噸（6,900 L/S），提供雲林、北嘉義及南彰化地區之公共給水。雲林給水廠轄下之林內及湖山淨水場，聯合運用集集攔河堰及湖山水庫水源，為彰雲嘉水資源調配中心。湖山淨水場，用地 46.59 公頃，保留 30% 為保育地，依環境影響評估之承諾，認證「湖山自來水環境教育園區」。

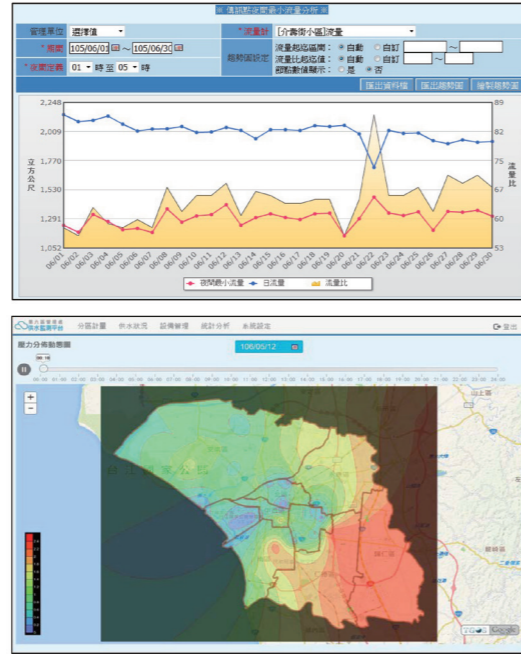


湖山淨水場設計出水量約每日 40 萬噸（4600 L/S），水源主要引用自湖山水庫，在水庫枯水期水源由集集攔河堰支援，由於攔河堰之水質具有高濁度之特性，常態期間濁度約在 1000NTU，當降雨後水源濁度上升至 10,000NTU 以上。如此高濁度原水由前處理設備做初級處理後，再由湖山淨水場做正常的淨水處理。



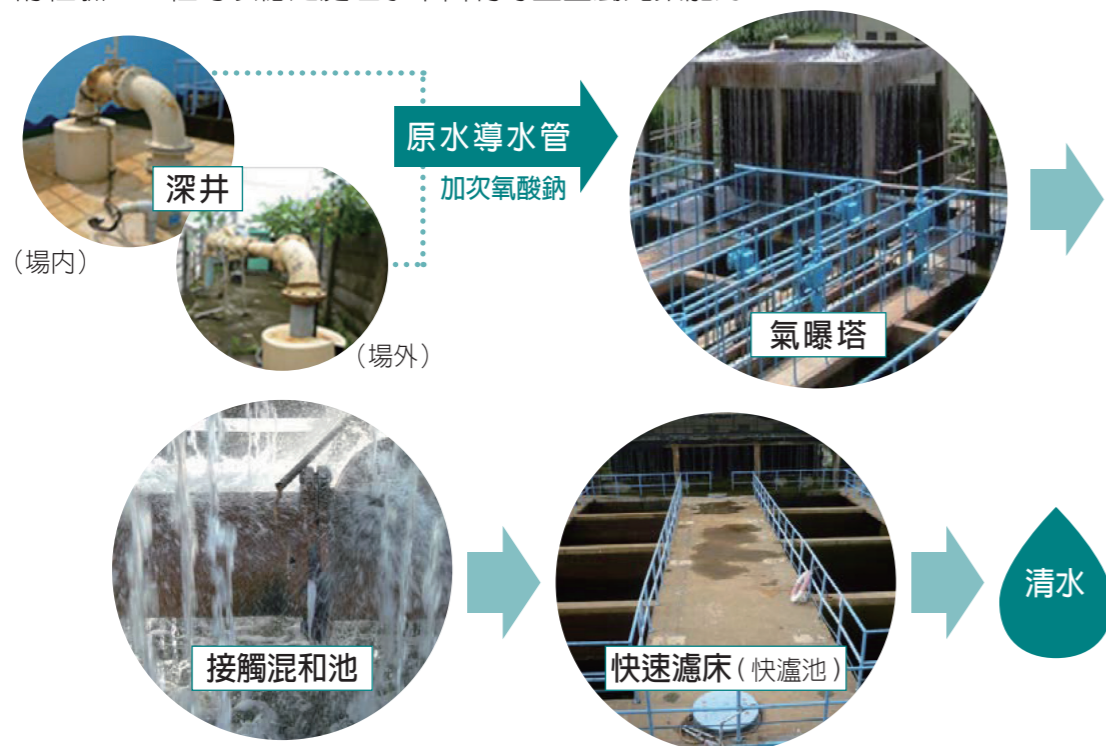
## 七、自動供水監測系統

台水公司有很多獨立的供水系統，由自動水壓監控系統測得數據，操作人員據以進行供水調節，確保供水區域末端及高地地區之供水無虞，亦可降低漏水、破管風險，有效提升供水穩定度。目前台水公司各個營業據點，已經可以透過手持裝置（手機或平板電腦）來監測每一個加壓站或管網外的流量、壓力、水質等資訊，是一個即時性的監測系統。



## 八、高鐵錳地下水處理技術

台灣彰化地區因地面水水源不足，水源來自於地下水，但水質含有極高鐵及錳，台水公司利用曝氣、混合沉澱、過濾等技術處理後去除鐵及錳。台水公司經過數十年的經驗，已經可以穩定處理水中含有等重金屬元素能力。



## 九、小系統之快速過濾設備

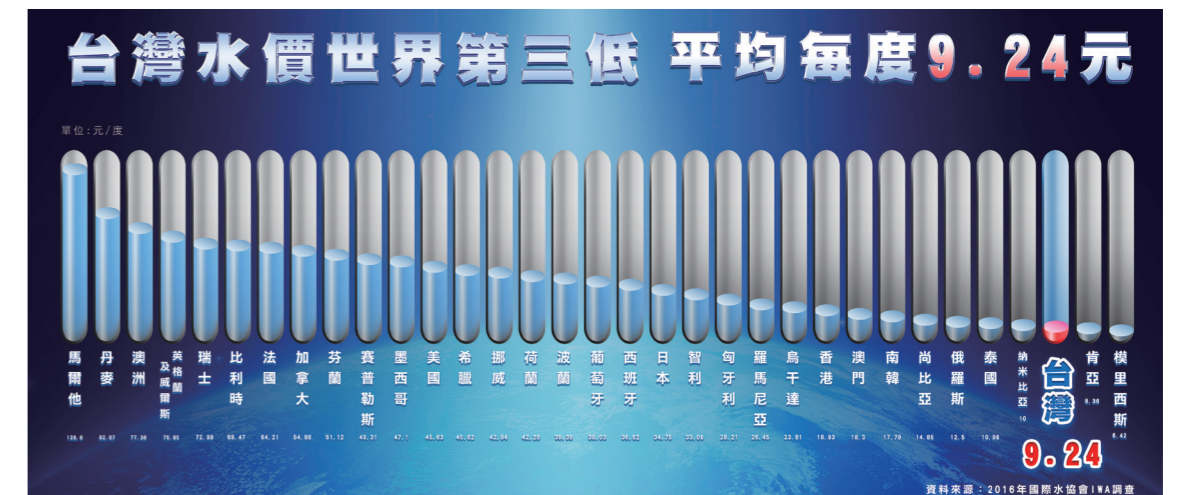
對每個國家來講，水源保護是最重要的。台灣有許多小系統的水源非常乾淨，因此台水公司使用非常便宜及有效的快速過濾系統，來處理這些清淨的水源，水質能符合飲用水水質標準。



## 我們擁有全世界最多元的供水系統

台水公司大規模的供水系統可以獨立供應 200 萬人左右，甚至小規模僅供應幾百人的供水系統，都有能力設計，台水公司擁有 144 個獨立的系統，服務的人口高達 1800 萬人，而台灣水資源 A-Team 可以提供所有設備及管線，提供完整的供水系統建構。

又，歷經台灣水價長期偏低、微利的經營環境，台灣水資源 A-Team 是低成本、高效率的服務團隊，能滿足小至幾百人的村落，大到幾百萬人的城市，可以提供技術服務各國。





## 丰元國際科技股份有限公司 Feng Yung International Technology Ltd.

ADD : 10544 台北市松山區民權東路三段 106 巷 15 弄 10 號  
No.10, Aly. 15, Ln. 106, Sec. 3, Minquan E. Rd., Songshan Dist., Taipei City 10544, Taiwan (R.O.C.)  
TEL : +886-2-87121208

Has 42 cases of public works and private enterprises, including sewage (wastewater) treatment works 26, water purification projects 15, seawater desalination 1. Feng Yung International Technology Ltd. establish 1988, Major are Public Project mainly included : sewage(wastewater) treatment, seawater desalination, purify water Turn-key design and construction.

### Main business activities

#### ◎ Sewage (Wastewater) Project

- Hsinchu County Zhubei sewerage water recycling system implementation plan center Phase I of new construction. 20,000CMD (turn-key design)
- Chiayi Water Resources Recycling Center Phase I Turn-key Project. 24,000CMD (turn-key design)
- Chunan Water Resources Recycling Center Phase I Turn-key Project. 15,500CMD (turn-key design, construction)

#### ◎ Dinking Water

- Private participation in the construction of Ma Gong 5500 + 7000 tons of desalination plant construction and operation (engineering design, supervision)
- Pei Shen water purification plant Capacity : 300,000CMD (Turn-key design)
- Lu Zhu water purification plant Capacity : 120,000CMD (Turn-key design)



公司成立於 1998 年，專業於污（廢）水處理、淨水處理及海水淡化統包工程之設計與執行。已承攬 42 件公共工程及私人企業案件，其中污（廢）水處理工程 26 件、淨水場工程 16 件。

### 主要營業項目

#### ◎ 污水下水道系統工程

- 新竹縣竹北市污水下水道系統第一期實施計畫水資源回收中心新建工程 20,000CMD（統包工程設計）
- 嘉義水資源回收中心第一期統包工程 24,000CMD（統包工程設計）
- 竹南水資源回收中心第一期統包工程 15,500CMD（統包工程設計、施工）

#### ◎ 淨水工程

- 民間參與增建馬公 5500+7000 噸海水淡化廠興建及營運（工程設計、監造）
- 平鎮淨水場第二期淨水處理設備統包工程 300,000CMD（統包工程設計）
- 路竹淨水場統包工程 120,000CMD（統包工程設計）



## 美商傑明工程顧問股份有限公司台灣分公司 Stantec Consulting Services Inc., Taiwan Branch (Formerly MWH Global)



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The Stantec community unites more than 22,000 employees working in over 400 locations globally. We collaborate across disciplines and industries to bring water, energy and resources, environmental, buildings, and infrastructure projects to life. Our work – professional consulting in planning, engineering, and management services – begins at the intersection of community, creativity, and client relationships.

We have serviced our clients in Taiwan and across Greater China for over 27 years. Our local strength, knowledge, and relationships, coupled with our world-class expertise, have allowed us to go anywhere to meet our clients' needs in more creative and personalized ways. With a long-term commitment to the people and places we serve, Stantec has the unique ability to connect to projects on a personal level and advance the quality of life in communities across the globe. Stantec trades on the TSX and the NYSE under the symbol STN.

### Main business activities

- ◎ Water supply planning & management
- ◎ Advanced water treatment
- ◎ Asset management system planning
- ◎ Ecological restoration engineering
- ◎ Pipeline engineering services
- ◎ Water resources management & planning
- ◎ Soil & groundwater remediation
- ◎ Wastewater treatment & reuse
- ◎ Catchment water quality management
- ◎ Project & program management

傑明公司集團歷史可回溯至 1820 年，為全球首屈一指的大型工程與建築顧問集團，不但擁有超過 22,000 名專業員工，且設有遍佈全球的 400 個營運據點。透過在台灣與大中華地區 27 年的深耕與成長，我們結合了各領域精英，提供客戶涵蓋環境、水利、能源、社區發展等基礎建設的全方位諮詢服務。我們的服務宗旨為追求創新、人性化服務，並創造更高的人類福祉。

### 專業服務領域包括：

- ◎ 供水規劃與漏水管理
- ◎ 淨水與高級處理工程
- ◎ 資產管理系統規劃
- ◎ 生態水質淨化工程
- ◎ 上下水道系統規劃設計
- ◎ 水資源管理與規劃
- ◎ 土壤及地下水污染整治
- ◎ 污廢水處理與再生回用
- ◎ 水體污染防治與削減
- ◎ 專案與計畫管理

Stantec (STN) 同時為美國紐約 NYSE 與加拿大 TSX 公開發行股票之上市公司。

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1F., No.234, Hebei 2nd Rd., Sanmin Dist., Kaohsiung City 807, Taiwan (R.O.C.)  
TEL : +886-7-2152225

Darcy Engineering Consultants Co., Ltd.(DARCY), was established in 2010,are qualified sub-contractors for Taiwan water corporation(TWC). In keeping with our commitment to offering clients the most reliable engineering services, enabling us to deliver results on-schedule with targeted performance and good quality.

DARCY offers project development, investment, consultancy, feasibility study, engineering, procurement, and construction management services for the water supply market. Our expertise extends across water resources planning, water intake engineering, piping engineering and water treatment plants. It is a reputation we have carried out more than 30 projects in Taiwan, are trusted by government and TWC.

### Our expertise

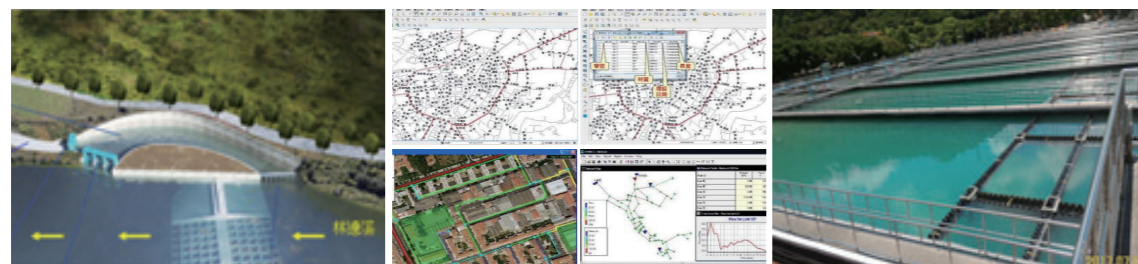
- ◎ **Water resources assessments and planning**  
surface water, groundwater, hyporheic water and sea water
- ◎ **Water intake engineering**  
river intake, radial well and collecting gallery
- ◎ **Piping engineering**  
DMA planning, cost analysis and facility design
- ◎ **Water treatment plants**  
Engineering, procurement and construction

達西工程顧問股份有限公司（簡稱 DARCY）創立於 2010 年，為台灣自來水公司合格之協力廠商。提供給業主最佳工程品質，並如期如質完成，是我們的核心理念。

DARCY 於自來水工程市場，提供專案開發、投資、諮詢顧問、可行性研究、設計、採購及工程管理等服務。我們的專業領域涵蓋水源開發規劃、取水工程、輸水工程，淨水場等。在台灣已完成 30 個以上案例，皆獲得政府及台水公司之信任及好評。

### 專業服務

- ◎ **水源開發規劃**  
地面水，地下水，伏流水及海水
- ◎ **取水工程**  
河川取水工，輻射井，集水廊道
- ◎ **輸水工程**  
小區管網規劃，成本分析及管材設備設計
- ◎ **淨水場工程**  
設計，採購及施工



▶ River intake

▶ DMA planning

▶ Water treatment plants

ADD : 40848 臺中市南屯區大墩 17 街 137 號 3 樓  
3F. NO. 137 Dadun 17th St., Nantun Dist., Taichung City 40848, Taiwan (R.O.C.)  
TEL : +886-4-23208051 Website : www.limi.com.tw/

### A SMALL SELECTION OF OUR SERVICES :

- ◎ **Infrastructure**
  - Tunnel Design
  - Roads & Bridges
  - Water Engineering
  - Waste to energy solutions
  - River restoration
- ◎ **Planning**
  - Economic planning
  - Flood risk management
  - Town planning and Urban Design
- ◎ **Technical Consulting**
  - Geotechnics
  - Geographic information systems
  - Building retrofit
  - Sustainable buildings design
  - Structural engineering
  - Mechanical engineering
  - Electrical engineering

### 專業服務項目：

- ◎ **公共工程**
  - 隧道設計
  - 道路及橋樑工程
  - 水利工程
  - 下水道工程
  - 河川汙染整治
- ◎ **工程規劃**
  - 經濟規劃
  - 洪患治理
  - 都市規劃
- ◎ **技術諮詢**
  - 大地工程
  - 地理資訊系統
  - 建物裝修
  - 綠建築設計
  - 結構工程
  - 機械工程
  - 電機工程

ADD : 80284 高雄市苓雅區中正一路 120 號 8 樓之 4  
8F-4, No.120, Zhongzheng 1st Rd., Lingya Dist., Kaohsiung City 80284, Taiwan (R.O.C.)  
TEL : +886-7-7166180

As for interflow construction projects, we have finished the Zhuliao collection pipes project of Gaoping River (Total length : 1233m) and interflow mode field project of Gaoping River Dam. Now, the project of interflow for Gaoping River Dam (Total length : 1500m) is under construction. Our tailored-made winding-type collection pipes and excellent team works have made great contributions, such as providing an abundance of high quality water with low turbidity.

**Business :** Road、Bridge、Earthwork、Development of Industrial Areas、Sewerage Projects、Land Improvement、Soil and water conservation、Hydraulic Engineering、High-Tech Factories、Business Building

就伏流水工程，本公司已完成高屏溪竹寮集水管工程（埋設長度 1233 米）及高屏堰伏流水模場工程，現承攬高屏堰伏流水工程（埋設長度 1500 米），本公司自製之繞線式集水管 與優秀施工團隊，為水資源貢獻，達到低濁度高水質之豐沛水量。

**業務範圍：**道路、橋涵、土方整地、工業區開發、下水道工程、土地改良、水土保持、水利 工程、科技廠房、辦公大樓

**Project Achievements 特殊工程實績**



1. Kaohsiung interflow construction Zhuliao collection Pipe Project. 高雄地區增設伏流水工程—竹寮集水管
2. Interflow mode field construction of upstream of Gaoping River Dam. 高屏堰上游傍河取用伏流水模場工程
3. Interflow construction of upstream of Gaoping River Dam. 高屏堰上游傍河取用伏流水工程



4. 2017 Golden Award of Public Construction 勞動部 106 年公共工程金安獎
5. Certificate of Appreciation of AIDC 漢翔航空工業股份有限公司感謝狀
6. 2014 Civil Work Award from MOEA 經濟部 103 年度公共工程優質獎 - 土建工程類
7. Certificate of Appreciation of World Vision Taiwan 台灣世界展望會感謝狀

ADD : 80272 高雄市苓雅區六合路 42 之 2 號  
No.42-2, Liouche Rd. Lingya District, Kaohsiung City 80272, Taiwan (R.O.C.)  
TEL : +886-7-2268989 Website : www.jenyi.com.tw

**Business Scope**

- ◎ **Underground Pipeline Engineering :**  
Shield tunnel, Pipe jacking, Horizontal direction drilling, open-cut, Pipeline Rehabilitation
- ◎ **Architecture Engineering :**  
High-Tech Plant, Government Building, Private Building
- ◎ **Turnkey Project (Design + Construction) :**  
Water Treatment Plant, Power underground tunnel by shield tunnel and pipe jacking with mechanical and electrical appurtenance, Power tower & suspension cable

- ◎ 地下管路工程（潛盾、曲線推管、導向鑽掘、明挖、管線更新反轉工法）
- ◎ 建築工程（高科技廠房、公家建築工程、私人建築工程）
- ◎ 統包工程（淨水場、台電地下推管潛盾洞道土建機電、台電鐵塔）



1. Sheild tunnel  $\psi$  2400mm, insert DIP  $\psi$  1500mm, Taiwan water corp. 台灣自來水公司嶺口場至鳳山厝送水管 (二) 潛盾工程環片內徑  $\psi$  2400mm, 內穿 DIP 管  $\psi$  1500mm
2. Completion of tunnel tunnel excavation, Taiwan water corp. 嶺口場至鳳山厝送水管 (二) 潛盾貫通
3. DIP  $\psi$  1200mm by open-cut 嶺口場至鳳山厝送水管 (二) DIP 管  $\psi$  1200mm 明挖管路
4. Catcher Tech. CO., LTD. Yongkang industry park high-tech plant 可成科技永康工業園區廠房



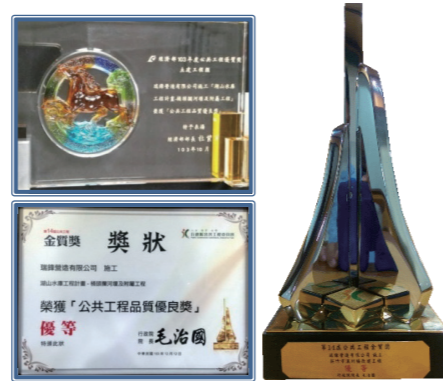
5. 2010 Taiwan power company appreciation certificate for zero accident 台電供處北施處零重大職災感謝狀
6. 2013 Taiwan power company appreciation certificate for completion ahead schedule 台電抗爭提前完工感謝狀
7. 2015 Taiwan OSHA Gold Safety Award "Outstanding" 台灣勞動部職安署第 9 屆金安獎佳作
8. 2017 Taiwan OSHA Gold Safety Award "Excellent" 台灣勞動部職安署第 11 屆金安獎優等

## 瑞鋒營造有限公司 JUI FENG CONSTRUCTION CO.LTD

ADD : 81358 高雄市左營區富國路 185 號 9 樓之 1  
9F-1, No.185, Fuguo Rd., Zuoying Dist., Kaohsiung City 81358, Taiwan (R.O.C.)  
TEL : +886-7-5575566

### ◎ HONOR

- 100 selected the 11th [Public Works Gold Award] finalists of the fine manufacturers
- 103 years won the Economic Department selected as [public works quality award] of the award-winning manufacturers
- 103 years won the 14th Public Works Gold Award - excellent civil and water class
- 103 years received the Economic Department selected as [public works quality award] fine manufacturers
- 106 received the Ministry of Economic Affairs selected as [public works quality award] fine manufacturers
- 106 won the eleventh gold medal masterpiece



### ◎ Items of bussiness

- Architectural Engineering : office buildings and residential area
- Factory building Engineering : steel structure factory and related projects.
- Construction Engineering : section of the collection (re-engineering), industrial development, roads, bridges, tunnels, conservation of soil and water and other related projects.
- Dock and harbor Engineering : dredging wharf, embankment, river remediation, revetment and wharf rear line facilities and other related projects.

### ◎ 榮譽

- 100 年度獲選第 11 屆【公共工程金質獎】入圍之優良廠商
- 103 年獲得經濟部品選為 [公共工程優質獎] 之得獎優良廠商
- 103 年獲得第 14 屆公共工程金質獎 - 土木類優等及水利類優等
- 103 年獲得經濟部品選為 [公共工程優質獎] 優良廠商
- 106 年獲得經濟部品選為 [公共工程優質獎] 優良廠商
- 106 年獲得第十一屆金安獎佳作

### ◎ 營業項目

- 【建築工程】辦公大樓、集合住宅。
- 【廠房工程】鋼構廠及相關廠房工程。
- 【土木工程】區段徵收(重劃工程)、工業區開發、道路、橋樑、隧道、水土保持等相關工程。
- 【港灣工程】浚疏碼頭、防坡堤、河川整治、護岸及碼頭後線設施等相關工程。

### ◎ 以往業績 (約四百件) 列舉



## 廣達營造工程有限公司 JUI FENG CONSTRUCTION CO.LTD

ADD : 24142 新北市三重區正義南路 119 號 14 樓  
14F, No.119, Zhengyi S. Rd., Sanzhong Dist., New Taipei City 241, Taiwan (R.O.C.)  
TEL : +886-2-29702558

Quanta Construction Company established in 1990. At the beginning, we have participated in sewage purifier projects, pipeline projects, pool constructions, landscape planting and infrastructure constructions, hoping to improve people's quality of life, and served as the category A in integrated business unit. In addition, we have been rewarded both National Quality Gold Medal on October in 2014 and Outstanding Award of Public Construction and Gold Quality Award in 2016.

We believe in that both quality and honesty are the priority and serve us our business philosophy. We look for continuous improvements with steady steps and participate in public construction with the spirits of sustainable developments. At the same time, we have continued to upgrade our professional knowledge to comply with clients requests and demands; therefore, we have provided quality construction and controlled the projects strictly to show the efficiency and quality of the construction projects.



廣達營造工程有限公司 (以下簡稱本公司) 成立於民國 79 年, 創立之初即以參與國內污水淨化、管線埋設、水池興建、植栽綠美化、基礎建設等公共工程建設、提昇國民生活品質為宗旨, 為甲級綜合營造業。本公司分別於 103 年 10 月榮獲國家品質金牌獎; 105 年榮獲公共工程優質獎並入圍第 16 屆金質獎; 秉持著『品質優先、誠信至上』的經營理念, 以穩健踏實的脚步追求企業持續改善、永續經營的精神參與公共建設, 並同時不忘提升本身專業水平期能對於工作進度與業主單位之需求, 以優良的建造品質、嚴謹地工期管控, 以求有效率且兼顧品質的執行工程。





ADD : 40755 台中市西屯區工業區七路 20 號  
No.20, 7th R.D., Taichung Industrial Park, Situn Dist., Taichung City 407, Taiwan (R.O.C.)  
TEL : +886-4-23592997 Website : www.kin-tech.com.tw

### Start From Taiwan, Toward Into International !

Since 1998 , Kintech Technology Co. distinguish the unique direction of business development differentiate with domestic and foreign water companies . When all the water companies focus on the pure water system, Kintech expand the business to water environmental protection , waste water treatment and recycle , standard pure water system, community water supply and high-end supply .

### Global Attention, The Glory of Taiwan !

#### World's Biggest High-end Double Membrane Water Purification Station

Since 2008, Kintech Technology Co. to undertake Taiwan Water Corporate “Kao-Tan and Wong Park high-end water process construction” . We increase the facilities of activated carbon adsorption treatment equipment and film high-end water treatment equipment, truly meet the water quality improvement goals, to provide the average daily 320,000 tons of resident using water ,and the best effective solution to people's livelihood demend.

Kintech Technology Co. had been ready for the earth to make contribution at environmental protection when the government promoted the green technology, resource regeneration. The major mission of Kintech is to become the water and process integration and ensure the water resource achieve new milestone.

### 以金業為起點，邁向國際舞台！

自 1998 年成立至今，即與國內、外一般純水公司區隔出特有的發展方向，當大家把焦點集中在純水系統時，金業科技除了純水系統外，更將業務目標拓展至水資源環保、廢水處理回收、標準量產化純水系統、社區式飲水供應系統、自來水高級處理及薄膜製造等事業。

### 全球矚目，台灣榮耀！世界最大雙膜法高級淨水廠！

自 2008 年起承接台灣自來水公司「拷潭及翁公園淨水場增設高級淨水處理工程」，增設活性碳吸附處理設備及薄膜高級淨水處理設備，真正符合水質改善目標，提供大高雄地區平均每日約 30 萬噸高級淨水，有效解決民生用水需求。

在政府提倡綠色技術、資源再生的同時，金業科技早已準備好，為地球環保盡一份心力，展現自行研發的成果，成為水與製程的整合者，讓水資源利用進入新的里程碑！

▼ Kaotan High-End-Water Purification Plant  
拷潭淨水廠



▲ LPRO System    ▲ UF System

ADD : 813 高雄市左營區大順 1 路 91 號 5 樓之 3  
5F-3, No.91, Ta Shun 1st Rd., Zuoying Dist., Kaohsiung 813, Taiwan (R.O.C.)  
TEL : +886-7-5573755 Website : www.kti.com.tw

Founded in 1978, Kuo-Toong Co., Ltd specializes in the professional design, production and assembly of large size water supply and division pipes including (1) concrete pipe products (2) steel pipes and (3) ductile iron pipes. We also offer service of the design, manufacturing and construction of water supply and division pipes by no-dig jacking methods, the specific mechanical equipment and plant set up and operation of Seawater desalination, Water and Sewage water.

In 1981, Kuo Toong Co., Ltd was awarded with the first degree of excellent CNS mark. It was certified ISO-9002 by the Bureau of Standards, Metrology and Inspection, M.O.E.A., R.O.C. in 1998. Up to date with the principles of high quality, technology, innovation and service, we have enhanced our production and construction capacity, improved our professional design ability, taken part in important national construction, expanded our presence in the international market, improved our competitiveness and contributed to the water resources industry.

國統公司成立於西元 1978 年，以專事設計、製造及裝配大口徑輸配水管線為主，產品包含 (1) 混凝土管製品、(2) 鋼管製品、(3) 延性鑄鐵管等三大類，並擴及管線輸配水監控管理、免開挖推進管線工程、隧道管線工程、潛盾工程、施工用特殊機具、海水淡化及淨水或污水處理等整廠設備之設計、施工與操作營運。

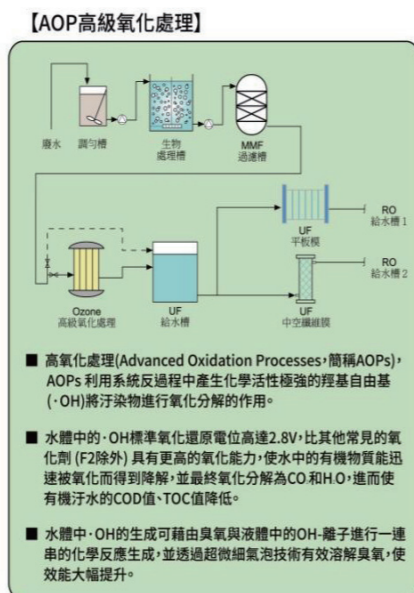
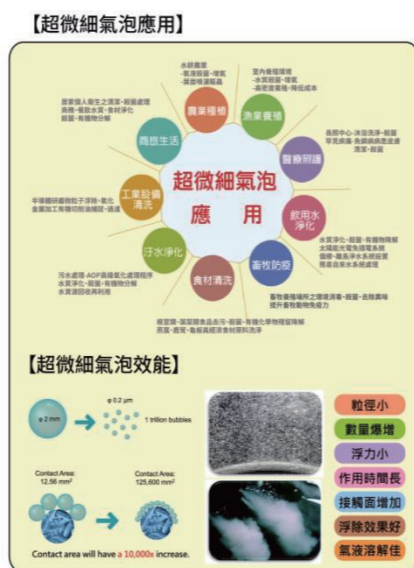
本公司於 1981 年，即獲中央標準局列為正字標記之甲等優良廠商，於 1998 年通過經濟部商品檢驗局 ISO-9002 國際品質認證，設立至今一直秉持著品質、技術、創新與服務之原則，除不斷提升製作與施工能力外，並積極培養專業設計能力，參與國家重大建設，並擴及國際市場，提升企業競爭力，為水利事業盡一份力量。

**CASHIDO Cashido Corporation**

ADD : 苗栗縣竹南鎮竹南科學園區科西一路 8 號  
 No.8, Kexi 1st Rd., Zhunan Science Park, Miaoli County, Taiwan (R.O.C.)  
 TEL : +886 3-7585575 Website : www.cashido.com.tw

Cashido's ozone Micro Bubble can be used for AOP (Advanced Oxidation Processes) in the wastewater treatment to reduce COD and TOC. In the AOP, the oxidation effect with the addition of ozone is significant. Ozone Micro bubble can turn the ozone bubbles into nanometer to increase the contact areas of the bubbles so that the bubbles can stay in the water for a longer period to reduce the ozone spillover and enhance the dissolution rate. High oxidation works first to break the carbon-nitrogen bond, and continues to oxidize the carbon and other single-bond compounds. Cashido is good at the design and planning of AOP systems and enhance the efficiency of organic decomposition, which improves the drawback of traditional ozone aeration. Cashido can customize the system based on the customer's water capacity (CMD) to meet their needs.

華仕德的臭氧微氣泡技術可以應用在廢水處理流程中的 AOP 高級氧化處理來降低 COD 及 TOC。在 AOP 高級氧化程序，添加臭氧的氧化效果很顯著。微氣泡臭氧可以將臭氧氣泡奈米化，讓氣泡表面積增加，停留時間加長，減少逸散率，增加溶解率。高溶解率的氧化反應主要是先將碳氫鍵予以打斷，並持續將碳氫等單鍵化合物氧化，達到降低 COD、TOC 的效果。華仕德擅長於 AOP 的系統設計規劃及提升有機物分解的效率，改善傳統大氣泡曝氣不足的地方。華仕德臭氧微氣泡的規模可以擴大，可以視客戶的水池容量大小，以及每日廢水排放量 (CMD) 客製化系統來因應客戶的需求。



**友騰工業股份有限公司**  
**YEOU TERNG INDUSTRIAL CO.,LTD**

ADD : 22168 新北市汐止區長江街 45 號 1 樓  
 No.45, Chang Jiang St., Xizhi Dist, New Taipei City 22168, Taiwan (R.O.C.)  
 TEL : +886-2-26413328

Founded in 14th of Nov, 1994 and with capital of 4 million USD, YEOU TERNG Industrial Co., Ltd is located on 1st floor, NO. 45, Changjiang St., Xizhi Dist., New Taipei City, Taiwan (R.O.C.) and the factory is located in No.260, Yongfu Rd., Sinwu Dist., Taoyuan City 32744, Taiwan (R.O.C.), with 50 employees, covering an area of 16 528.925 m2.



Main products include water pipes, wastewater pipes, industrial water pipes, ductile iron pipes for agricultures, pipe fittings and accessories (bolts & nuts) and the productions and processing of different boxes.

Production standard : direct pipes comply with CNS-10808-G3219; Pipe fittings complies with CNS-13272-G3253; Pipes inner & outer painting and cement lining complies with CNS.

We have aggressively developed U type, T type, S type and above 1500mm ductile iron pipes and will plan to add more production equipments and molds to elevate our competitiveness.

**Products**

- ◎ Direct pipes, 100~150mm K type pipes, 1000~1500mm U type pipes.
- ◎ Pipe fitting, 75mm~1500mm K type fittings, 1000~1500mm U type fittings.
- ◎ Casting, check valve boxes, Hydrant boxes, various size of meter boxes, manholes and the foundation.

**產品**

- ◎ 直管—管徑 100~1500mm K 型管，管徑 1000~1500mm U 型管。
- ◎ 管件—管徑 75mm~1500mm K 型之管件，管徑 1000~1500mm U 型之管件。
- ◎ 鑄件—制水閥盒、消防栓盒、大中小水表箱、人孔蓋及其基座等。

友騰於 1994 年設立，資本額新台幣壹億貳仟萬元整，公司位於新北市汐止區長江街 45 號 1 樓，工廠設在桃園市新屋區永安里永福路 260 號，佔地 5000 坪，目前員工人數 50 人。

主要生產項目為適用於自來水管、污水管、工業用水管及農業用水管之延性鑄鐵管、管件及其配件接頭附件 ( 螺栓及螺母 ) 等及各種箱類之製造、加工等。

製造規範：直管依照 CNS-10808-G3219 標準製造，管件依照 CNS-13272-G3253 標準製造，管內外面之塗裝及水泥襯裡均依照 CNS 標準規定製造。

未來將積極研發製造生產 U 型、T 型、S 型及 1500mm 以上大口徑之延性鑄鐵直管，並計劃增添生產設備及開發管模模具，以利在產業界增加更多的競爭機會。

ADD : 10476 台北市中山區民權東路三段 66 號 8 樓  
8F, No.66, Sec.3, Ming Chuan E. Rd., Taipei 10476, Taiwan (R.O.C.)  
TEL : +886-2-25012901

Ming Kuan Machinery MFG. ENT. Co., Ltd. (Referred as MK below) is a professional valve manufacturer for more than 47 years. Throughout the year, MK has supplied valves for the major project domestically and internationally.

MK is mainly manufacturing in special valve. We have not only sold to South East Asia region but also to the developed country like the United States of America, France and etc. MK owns large-scale of testing facilities. These test facilities are used to test MK's valves and new product development. All the valves that are manufacture at MK needs to pass our high standard quality control test before shipping out. MK has rewarded as excellent manufacturer by Taiwanese government.

#### Primary product :

##### 1. Nozzle check valve :

Nozzle check valve can install at the outlet part of the pumping station as non-return function or check valve at the pressurize water main to prevent water hammer occur.

##### 2. Multi-Jet Sleeve Valve :

Multi-Jet Sleeve Valve has excellent linear flow control and energy dissipation effect. It can be used as pressure reducing and flow control function at water delivery pipe.

##### 3. Fixed Cone Valve :

Fixed Cone valve has excellent linear flow control and energy dissipation effect. It can be used as the drain valve at the dam or flow control valve at water delivery pipe.

##### 4. Flange Butterfly Valve :

The flange butterfly frame disc designed provide excellent fluid diversion and embedded seat could prevent leakage. It is the best cut-off function valve at water main.

##### 5. Hydraulic Control Valve :

The Hydraulic Control Valve is a high reliability pressure control valve. It can be used as remote float control valve, pressure reducing valve, pressure release valve, pressure sustaining valve and pump control valve and other multi-function valve.

明冠造機企業股份有限公司(以下簡稱明冠)為一具有 47 年歷史的閥類專業製造廠商, 長期以來供應國內外各大工程及廠商使用。



明冠產品目前主要生產特殊閥類, 除外銷東南亞地區並已銷至美國、法國等先進國家。明冠擁有大型的試水設備、排氣閥測試設備及可撓管試驗設備, 以供各型閥類之測試與研究。產品出貨前皆有嚴格的品質控制, 曾獲政府機構頒發優良廠商之一。

#### 主要產品 :

##### 1. 單瓣環向噴流式逆止閥 :

使用於加壓站的泵浦出口端, 作逆止功能使用, 或使用於壓力輸水幹管, 作為中間逆止閥用, 以阻隔水錘串聯。

##### 2. 多噴孔錐型控制閥 :

此閥流量控制線性極好, 具極佳的減壓控制及消能效果, 作為清水輸水幹管減壓或流量控制功能使用。

##### 3. 固定錐型閥 (單噴孔錐型控制閥) :

此閥流量控制線性極好, 並具極佳的消能效果, 作為水庫的壩底洩放閥使用, 或原水輸水管之流量控制閥使用。

##### 4. 法蘭式蝶閥 :

本閥設計閥瓣為具框架式閥瓣, 有極佳導流作用, 嵌入式的閥座設計具極佳的止漏效果, 作為幹管截流制水的最佳閥門。

##### 5. 水力控制閥 :

為一種可靠性極高的壓力控制閥, 可作為遙控浮球閥、減壓閥、洩壓閥、持壓閥、泵浦控制閥等多功能性閥門。

ADD : 804 高雄市鼓山區博愛一路 534 號 6 樓  
6F, No. 534, Bo-ai 1st Rd., Gushan Dist, Kaohsiung City 804, Taiwan (R.O.C.)  
TEL : +886-7-5581488 Website : www.kawanishi.com.tw

#### Leaders in Water Pipe Joint

##### ◎ Over 2,700 joints developed with 65 years

with 65 years of expertise and experience, for easy connection of different pipe types.

##### ◎ Rapid, Safe, and Durable

Just insert pipes and fasten with nuts.

##### ◎ Shockproof and Corrosion-Resistant

Made of F.C.V, no rusting due to galvanic corrosion, coated with corrosion-resistant epoxy powder.

##### ◎ No Adhesives/Lubricants Required, Free from Adhesive Failure Risk

Teflon film gasket ensures watertight fit with piping.

##### ◎ 2700 餘種產品—適用異口徑、異材質之接合

##### ◎ 快速施工、安全、耐久

只需將左右兩端的水管分別插入接頭, 將螺帽鎖緊即完工。

##### ◎ 防震及耐腐蝕

縮狀石墨鑄鐵 (F.C.V) 單一材質, 無金屬電位差所導致的生鏽問題, 內外表面為高防腐蝕性的環氧樹脂粉體塗裝。

##### ◎ 不須使用任何黏著劑 / 潤滑劑—絕無退膠風險

特殊鐵氟龍薄膜墊片, 具有接頭與管件絕佳之水密性構造。



- Simply slide on for repair and connection
- Instant water supply, no waiting
- Odorless and no leakage

可在管件上滑動完成修漏及接合, 施工後立即恢復供水, 無任何異臭, 不再漏水



ADD : 92343 屏東縣萬巒鄉佳興路 83 號  
 No.83, Chia-Hsing Rd., Wan-Luan, Pingtung 92343, Taiwan (R.O.C.)  
 TEL : +886-8-7833834 Website : www.skvalves.com.tw

### 1. MAIN PRODUCTS

SLEEVE CONTROL VALVE, DIAPHRAGM HYDRAULICAL CONTROL VALVE, PIPE BURST CONTROL VALVE, METAL SEATED BALL CONTROL VALVE, VARIOUS CHECK VALVES, BUTTERFLY, GATE VALVE, FLEXIBLE EXPANSION JOINT, HYDRANT, AIR RELEASING VALVE.

### 2. BETTER QUALITY, BETTER SERVICE

Cooperated by "National Pingtung University Of Science and Technology", "Cheng Shiu University" to offer "the best solution". Plan to get CE certification. Quality, Efficiency, Service are guaranteed and be a problem-solving consultant.

#### 一、主要產品

主要產品為各類套筒錐型閥、隔膜控制閥、緊急遮斷閥、金屬閥座球型閥、各類逆止閥、蝶閥、彈性座封、可撓管、消防栓、排氣閥。

#### 二、產學合作及未來展望

研發團隊和國立屏東科技大學、正修科技大學整合各項資源，提供「最好的解決方案」，並計劃申請 CE 認證。不僅品質、效率及服務的保證，更可以提供客戶技術支援及相關諮詢。



ADD : 70462 臺南市永康區鹽洲里洲尾街 72 號  
 No.72, Jou Wei St., Yen Jou Li, Yung Kang Dist., Tainan City 70462, Taiwan (R.O.C.)  
 TEL : +886-6-2534185 Website : www.snpipe.com

### Company Profile

Shin Nan Casting Factory Co., Ltd. is one of the leading manufacturers of Ductile Cast Iron Pipes and Fittings in Taiwan, and enjoys an excellent reputation of business experience since 1955. We have successfully exported our products to Hong Kong, Vietnam, Philippines, Sri Lanka and Cambodia etc. Our motto is "Keep customers satisfied with quality product and service".

### Product

The diameter of Ductile Cast Iron Pipes and Fittings are from DN80~2600 for Potable water, Reclaimed water, Sewerage and Gas application with push-on joints, flanged joints and restrained joints conform to ISO 2531/7186 & BS EN 545/598, all quality & product systems are ISO 9001, Kitemark, SLS, WRAS and SGS accredited.



#### The Advanced Pipeline –

The "Fusion Bonded Epoxy" for internal coating of pipes has become our newest product which is the best solution for tap water and meets the requirement of drinking water



#### 公司簡介

本公司於 1955 年創立迄今已逾 60 年，信譽優良並擁有豐富的商業經驗，在台灣是延性鑄鐵管和管件的領先製造商，亦成功外銷至香港、越南、菲律賓、斯里蘭卡、柬埔寨等多處國家，我們的經營理念是“提供客戶滿意的品質和保證永續經營的服務”。

#### 產品服務

本公司主要產品為裝配於各式水道和瓦斯管線專用之延性鑄鐵管、管件、閥，搭配推進、法蘭、機械和防脫等各式接頭，口徑從 75 厘米到 2600 厘米，符合 ISO2531/7186 和 BS EN545/598 的國際規範，並取得有 ISO 9001、Kitemark、SLS、WRAS 和 SGS 等國際認證。

#### 我們的管內塗裝技術再升級 ~ 延性鑄鐵管 內襯環氧樹脂粉體塗裝





**錦源集團**  
Gin Yuang Group

ADD : 10489 臺北市中山區建國北路 1 段 69 號 9 樓  
9F., No.69, Sec. 1, Jianguo N. Rd., Zhongshan Dist., Taipei City 10489, Taiwan (R.O.C.)  
TEL : +886-3-4839540

### Introduction

Supplying the international standard pipe and fitting from premium material, as well as importing state-of-the-art piping technology from advanced countries to provide the best life quality to public are an invariable principle of Gin Yuan Groups. Having grown for more than 30 years, the group is a longest established, most honest and eligible pipe manufacturer to fill the requirements for international standard.

### Group companies

#### ◎ Gin Yuang Cast Industrial Co., Ltd.

The main production - Ductile iron pipes / Fittings / Valves. Other accessories and mechanical parts.

#### ◎ GinYuang Cement Products Co., Ltd.

The main production -Prestressed concrete non-cylinder pipes, Prestressed concrete cylinder pipes, Concrete pipes for jacking method, Steel pipes for water works.

#### ◎ Yuan Soong Plastic Industrial Co., Ltd.

The main production-High density polyethylene pipe & fittings. Applicable to pipes for water works, natural gas pipes...etc. and pipes for various industrial uses.



### 集團簡介

錦源集團主要供給國內管路渠道最具國際品質的管材、引進先進國家高科技的管路施工技術、帶給百姓最佳的生活品質，一直是錦源集團不變的宗旨。錦源集團歷經 30 多年來的成長，已成為國內歷史最悠久、最誠信、最具國際水準的製管企業。

### 集團企業

#### ◎ 錦源鑄造工業股份有限公司

主要生產－離心球狀石墨鑄鐵直管、管件及配件，球狀石墨鑄鐵人孔、手孔及閥類，機械另件。

#### ◎ 錦源水泥製品股份有限公司

主要生產－無鋼襯預力混凝土管、鋼襯預力混凝土管、推進管、自來水用鋼管。

#### ◎ 錦源鑄造工業股份有限公司

主要生產－高密度聚乙烯管 HDPE。適用於自來水輸送管、天然氣瓦斯輸送管…等各種工業用管路。



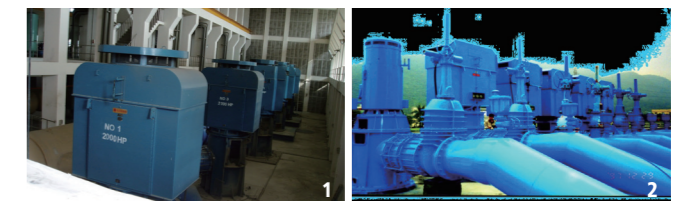
**大同股份有限公司**  
TATUNG CO., Ltd.

ADD : 23743 新北市三峽區溪東路 352 號  
No.352, Shitong Road, Sanhsia, New Taipei City 23743, Taiwan (R.O.C.)  
TEL : +886-2-86766888 Website : www.tatung.com

Established in 1918 and headquartered in Taipei, Tatung Company is the first publicly listed company in Taiwan and has evolved into a conglomerate. During one century's development from its inception, Tatung has abided by its founding values of "Integrity, Honesty, Industry, and Frugality". Tatung was reported by Taiwan media as "The brand that best represents Taiwan". Tatung Company holds 3 business groups, Power Business Group, Consumer Business Group, System Business Group, which include 6 business units, Motor BU, Power Equipment BU, Smart Solution BU, System Integration BU, Advanced Electronics BU, and Home Appliances BU.

Starting to produce electric motors since 1949, Tatung is the pioneer and established the base of Taiwan electric motor industry. Tatung had collaboration with the leading motor makers, Westinghouse Electric and Toshiba, and has gained plenty manufacturing experience and progressive technology. Tatung is now an ISO9001 qualified manufacturer, which can supply various type of electric motors up to 50,000HP, such as large high voltage motors, premium efficiency motors, wound rotor motors, explosion proof motors, high temperature-resistant motors, vertical high thrust motors, inverter duty motors, oil pump motors, water pump motors, steel-rolling motors, EV motors and even the smart motor monitoring cloud module...etc..

Tatung has supplied numerous motors for a wide range of industrial equipment with much experience for applications in the water plant or water treatment plant. Therefore, Tatung can support Taiwan Water A-Team to serve the global water industry.



1. Tatung 2000HP 10P vertical pump motor supplied for Taiwan Water corporation  
2. Tatung 3000HP 10P vertical pump motor supplied for Taiwan Water corporation

大同公司創立於 1918 年，為台灣第一個上市企業，集團總部位於台北市，為全球性綜合大廠。近一世紀的淬鍊，大同公司始終秉持「正、誠、勤、儉」之創業精神為最高經營原則，被台灣媒體評選為最能代表台灣的品牌。大同公司主要分為「電力事業群」、「消費事業群」、「系統事業群」三大事業群，旗下包含馬達、電力設備、智慧解決方案、系統整合、先端電子、家電電子等六大事業部。

大同公司自 1949 即開始生產馬達，是台灣工業馬達製造的先驅，奠定我國馬達製造之基礎。曾先後與美國西屋電氣與日本東芝兩大馬達領導廠商技術合作，累積豐富製造經驗與精進工藝技術，以符合 ISO9001 品質體系的作業流程，持續創造優質的產品，目前可生產 5 萬馬力以下各種交流馬達，廣泛應用在各種產業設備及系統工程，包括大型高壓馬達、超高效率馬達、繞線型馬達、防爆馬達、耐高溫馬達、立式高推力馬達、變頻馬達、油泵馬達、水泵馬達、軋鋼馬達、EV 馬達乃至於智慧馬達中央監控雲端模組…等。

大同馬達供應各種產業設備成果斐然，於自來水廠或水處理廠應用之馬達經驗豐富，台灣各水廠都可見到大同馬達蹤跡，可配合台灣自來水公司組成之 A-Team 共同服務全球水事業版圖。

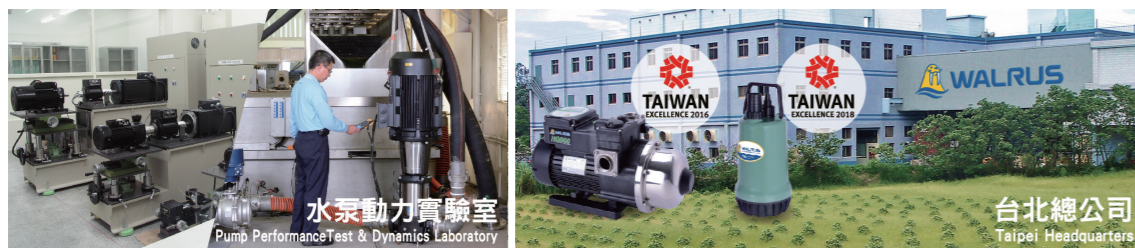
## 大井泵浦工業股份有限公司 WALRUS PUMP CO., Ltd.

ADD : 252 新北市三芝區後厝里大片頭 83 之 14 號  
No.83-14, Dapiantou Dist., Sanzhi District, New Taipei City 252, Taiwan (R.O.C.)  
TEL : +886-2-26361123 Website : www.walruspump.com/en-global/#

WALRUS Pump Co., Ltd is the leading manufacturers of pumps located in Taiwan since 1967, our value is to satisfy customers with a range of comprehensive products, innovative technology and superior quality, value and service. We continuously invest in new product research and development to bring you the best in the industry.

WALRUS is honored by Taiwan Excellence Award, High Efficiency Motor Award, and The National Brand Yushan Award. Besides, we are successfully approved by High Efficiency Motor Alliance of Industrial Technology Research Institute for IE3 Motor inside mark. We continuously develop IE3-IE4 motor to improve the pumps efficiency and meet national IE3 efficiency standard. WALRUS has also established a pump dynamic laboratory which is certificated by TAF and TÜV NORD. The laboratory develops pumps with the national standard of spare parts, materials, and efficient motor concepts. WALRUS established two primary factories in Taiwan, which located in Taipei and Kaohsiung. We invest the state of art CNC facilities to upgrade the quality of our manufacture. Industrial water pump products (TPH, TPHK, TPAK) were tested to ensure the quality and reliability.

Currently, WALRUS is already the number 1 brand in Taiwan's home use market, its products are exported to over 100 countries, and it has received 5 global certifications : European CE & RoHS, Canadian CSA-C/US, Chinese 3C and ISO 9001. Now, WALRUS is laying out regional markets in the US, Mainland China, Japan, Europe, India, Southeast Asia, Canada, Brazil, Australia, etc.



台灣大井泵浦工業股份有限公司創立於 1967 年，在水泵設計研發、製造生產與銷售服務已有五十年的歷程。

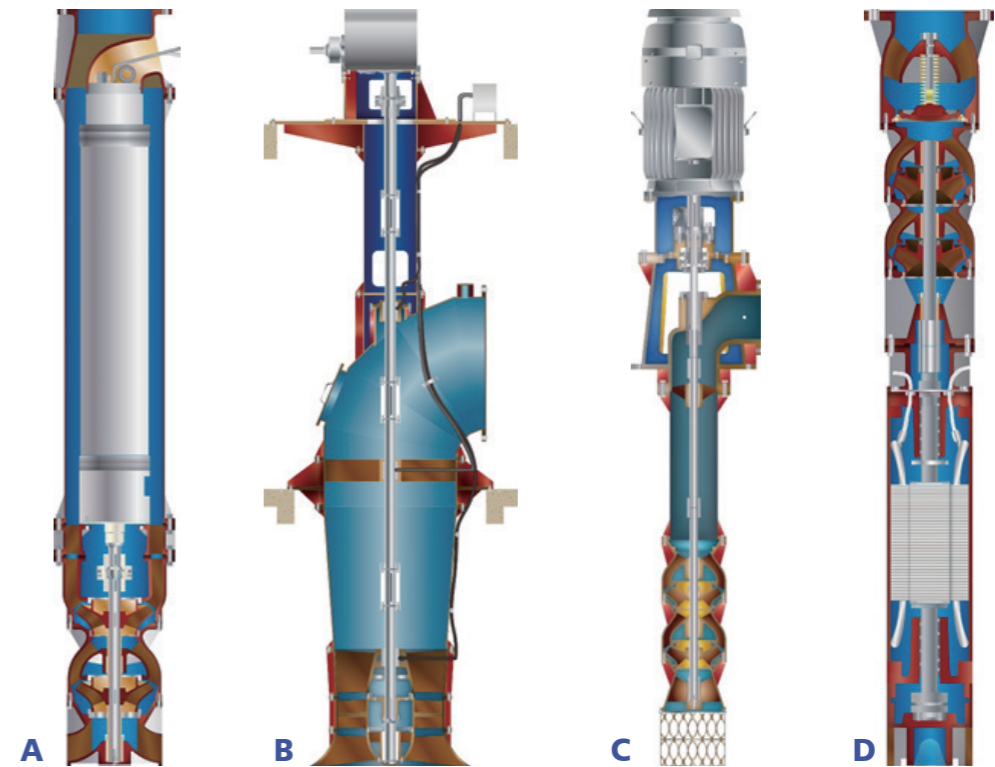
大井 WALRUS 泵浦榮獲「台灣精品獎」、「馬達產業設備金能獎—高效節能獎」、及「國家品牌玉山獎」的肯定，並成功申請使用「IE3 Motor inside」標章，持續導入與開發 IE3-IE4 馬達，增加授權產品項目。為落實新品研發管理與驗證，我們建立了大井 WALRUS 水泵動力實驗室，提升產品效能以符合世界潮流與規範，除了台灣台北、高雄兩大廠，在中國大陸也設有蘇州廠。TPH、TPHK、TPAK 等工業設備應用之系列泵浦，並採工業級品保險證。

大井 WALRUS 水泵，透過直接和間接方式銷售全球百餘國，並獲得：歐洲 CE&RoHS、北美 CSA-C/US、大陸 3C 以及 ISO9001 等全球五大國際專業認證，更擁有國內、外百餘項專利，是台灣最專業的水泵領導品牌。



## 井寶產機企業股份有限公司 CHING PAO Machinery Manufacturing Co., LTD.

ADD : 41154 臺中市太平區工業二十路 80 號  
No.80, Gongye 20th Rd., Taiping Dist., Taichung City 41154, Taiwan (R.O.C.)  
TEL : +886-4-22712456 Website : www.cpmp.com.tw



### A. Bottom Suction Submersible Pumps.

Low noise, low rate of failure rate, easy maintenance, operate in low water level, less assembling spare parts.

### B. Axial and Mixed Flow Pumps for Large Volume Pumping (work with Engine or Motor).

Low heads lift, large water quantity (up to 10CMS), quickly solve water rising suddenly and sharply.

### A. 低吸式電動抽水機

無噪音，低故障率，易於維護保養，低水位可運轉，組成結構簡易零件少

### B. 引擎防洪抽水機

低揚程，大水量（最高可達 10CMS），迅速解決水位暴漲

### C. Vertical turbine Pumps.

Long-wearing, multiple uses, can be customised change.

### D. Submersible Pumps.

Small outside diameter, suitable for various caliber deep wells, high efficiency, high head lift, high performance with good price.

### C. 豎軸式電動抽水機

極耐用，用途廣泛，可客製化更改

### D. 沉水式電動抽水機

外徑尺寸小，適合小口徑深井，高效率，高揚程，性能價格比高

**泉溢電機工廠股份有限公司**  
**CHUANYI ELECTRIC MACHINERY WORKS CO., LTD.**

ADD : 40246 臺中市南區五權南路 175 號 1 樓  
 1F., NO.175, Wuquan S Rd., South Dist., Taichung City 40246, Taiwan (R.O.C.)  
 TEL : +886-4-22627171 Website : www.cpem.com.tw

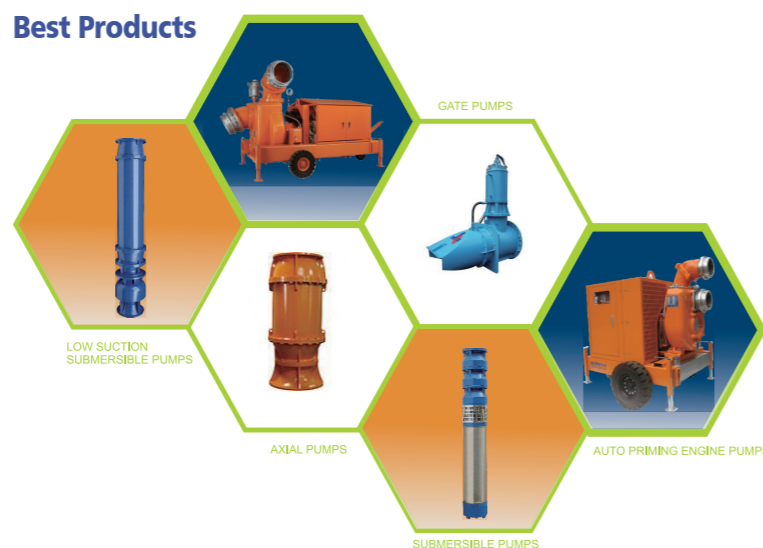


We always target to strengthen our design and produce ability to provide a better services and high-tech products to our customers. Through a constant, steady growth, CHUAN YI has amassed the capability to integrate a diverse water resource equipments, coupled with the entire staff's united efforts, has enabled CHUAN YI to gain a significant market share and became a leading enterprise.

Self priming engine pump set is the best selling products in the market. With ICT and DISP platform, self priming engine pump becomes a smart flood control equipment and increase products efficiency. CHUAN YI will commit customers a convenient and complete water resources services.

本公司致力於抽水機設計及專業製造能力以提供客戶更好的服務及更高端的抽水設備。泉溢歷年來穩健成長。近年來本公司更整合了各式的水資源設備，加上數十多年的專業的服務團隊，使得泉溢在抽水機市場佔有一席之地，領先業界。

移動式抽水機是目前市場上銷售最佳的產品。近年來我們結合 ICT 系統及 DISP 平台，使產品晉升為智慧化防汛工具，提升產品效能，為客戶帶來更便利及完整性的水資源的服務。



**台灣好表**  
**智慧水管理**  
 EMS

**弓銓企業股份有限公司**  
**ENERGY MANAGEMENT SYSTEM CO.,LTD.**

ADD : 74144 臺南市台南科學工業園區善化區大利三路 8 號  
 No.8, Dali 3rd Rd., Shanhua District, Southern Taiwan Science Park (STSP), Tainan 74144, Taiwan (R.O.C.)  
 TEL : +886-6-5050207 Website : www.ems.com.tw

Founded in 1991, EMS Co. Ltd is the only metering technology company located in Tainan Science Park in Taiwan. With more than 30 years experiences in water management systems, EMS focus on the development of Smart water meters, including digital water meter, electromagnetic flow meter, ultrasonic flow meter, Wireless transmission dataloggers, AMR (Automatic Meter Reading) systems to monitor flow, pressure and quality with real-time data, DMA and Submetering solutions for households. EMS considers the data as the foundation, renovates the diversity of the water resource management and fulfill the ideas of the smart water networks. The Smart water meter has been rewarded by Invention & New Product Exposition (INPEX) and Taiwan Excellence since 2016.

EMS has successfully supported utilities, industries, campuses and smart buildings to reduce leakage and increase management efficiency. We have expanded the market abroad, including South Africa, Malaysia, Vietnam, India, Bangladesh, Indonesia and Thailand. EMS metering solutions has been recognized by the clients and we will keep searching for excellence to bring better smart management solutions for the clients worldwide.

1991 年成立，為台灣唯一進駐科學園區的智慧水表廠家，累積近三十年水資源管理經驗，從智慧水表的研發開始，銷售產品包含電子水表、電磁式流量計、超音波式水表、無線傳訊記錄器等，並逐步擴展到通訊介面、系統軟體，即時監測水量、水壓、水質狀況，建置分區計量管網，提供家庭住宅集抄方案。弓銓將以數據為基礎，重新開創水資源管理的多元性，實踐智慧水網的藍圖。產品已榮獲美國匹茲堡發明獎，並自 2016 年起連續三年獲得台灣精品獎肯定。

目前已成功協助國內外自來水事業單位、工廠園區、校園機關、智慧住宅降低漏水浪費，提高管理效能。目前事業版圖已擴展到海外，成功外銷至南非、馬來西亞、越南、印度、孟加拉、印尼、泰國等國家，深受國內外客戶信賴與肯定，弓銓將持續精益求精，為客戶帶來更完善的智慧水管理方案。



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A company based on the integration of microelectronic and water measurement, has devoted to the design and manufacturing of instruments for water measurement and systems for environmental monitoring over 30 years. TWSI has made conventional sensors and systems with more precision and user friendly. Besides, TWSI has embarked on the development of a series of revolutionary instrumentations to provide solutions for the growing demands of water resources management and problems due to flood.

### Products & Applications

- ◎ **Precision sensors** : Level, position, flow, volume, sediments, EC profile
- ◎ **Smart transmitters** : RS-485/ModBus, Lightning-free FSK, Wireless, GPRS
- ◎ **Digital** Wire Extensometer, wireless Event Transmitter, Smart Monitoring Panel
- ◎ **Early warning system** for Flood, Landslide, Debris-flow and Water Pollution.
- ◎ **Smart remote monitoring** on Intake, for flow, sediment and storm-water.

台禹監測科技股份有限公司，係台灣最早且持續從使用者角度出發、專注於創新研發水環監測儀器及系統之升級改良，以提升水資源管理、環境保護及防災預警之應用效能。

台禹公司長期專精於水土環感測儀器研發，近年幸運地發展出革命性感測技術與創新性監測系統，其突破傳統水土環監測瓶頸之新效能，可提供精準與完整的即時監測（原先做不到或做不好的）；本技術可因應不同監測需求而組配特用外型與架構，包括搭配各等級區域系統之最佳化傳訊與通信設備，



對絕大多數水環建設，皆能以相對微小的成本，精準掌握管理需用之資訊，促進監控精進化，且能普及化，能有效監測而提昇減災節能穩水新境界。此亦『智慧城市』與『物聯網』落實之關鍵器件。

### 主要產品及應用（水土環感測器及監測系統）

- ◎ **各類精密感測器 / 傳感器**：水位、閘位、流量、容積、淤積、高含砂濃度，電導度剖面儀
- ◎ **各型傳訊設備**：訊號變送器、耐雷傳訊器、多工顯示器、區域無線傳訊、GPRS 雲端傳送器
- ◎ **各式水文監測及洪水預警報系統、多功能高濁預警型取水口監控系統**
- ◎ **高精度污泥沉降監測系統、水處理流程精密監控系統、水污染監測即時警報系統**

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TEL : +886-3-6235061 Website : www.anasystem.com.tw

AnaSystem is a system integration company which uses cloud IoT platform as the core of data acquisition system. AnaSystem specializes in developing all-in-one IoT products integrated sensor, power, communication and cloud software like smart data logger, smart monitor box and smart water level gauge. The cloud software Senslink integrates communication systems, database systems, cloud computing technology, on-line analysis and display functions to build the core of cloud IoT platform used in the environment, hydrology, meteorology, transportation, medical, smart city, smart agriculture, etc. monitoring systems. Furthermore, Senslink can combine with big data analysis model to provide the basis of decision-making and behavior prediction.

AnaSystem received Microsoft Small Business Specialist, Microsoft Silver Data Platform, Microsoft Silver Software Development and Microsoft Silver Web Development certification in 2011. All products are developed by AnaSystem and the major product Senslink won 2012 TAITRONICS Technology Innovation Award, and SensSmart WLS won 2017 Taipei Smart City Innovative Application Award.

### Products

- ◎ **Data Acquisition & Cloud Computing Platform – Senslink**  
2012 TAITRONICS Technology Innovation Award
- ◎ **Smart Water Level Sensor – SenSmart WLS**  
2017 Taipei Smart City Innovative Application Award
- ◎ **Smart Data Logger – SensMini M4**  
2012 TAITRONICS Technology Innovation Award
- ◎ **Smart Monitor Box – SensMini A4**

安研科技是以雲端物聯網平台為核心之自動化資料收集系統整合廠商，專精雲端監測系統開發與物聯網平台應用，整合嵌入式系統、通訊系統、中央管理系統、資料庫系統、雲端計算等開發技術，建立雲端物聯網運算核心，應用於環境、水文、氣象、交通、醫療、智慧電網、智能建築、智能城市等監測系統，實現全球虛擬監測網路，並進而結合巨量資料分析，作為決策與應用之基礎。公司於 2011 年即獲得微軟銀級中型企業解決方案提供者認證、軟體開發專長認證、以及資料平台專長認證，公司之系統產品皆自行研發，具有優越之市場競爭力。

### 主要產品：

- ◎ **雲端物聯網資料收集平台 Senslink**  
榮獲 2012 年第一屆雲端與物聯網展 —— 科技創新獎
- ◎ **智慧型傳訊水位計 SenSmart WLS**  
榮獲 2017 年智慧城市展 —— 創新應用獎
- ◎ **智慧型傳訊記錄器 SensMini M4**  
榮獲 2012 年第一屆雲端與物聯網展 —— 科技創新獎
- ◎ **智慧監測盒子 SensMini A4**



### Product and Service

As one of the largest leaders in automation system as well as comprehensive after-service programs, which allow us to help our clients successfully implementing varintegrators and related product manufacturers, we are equipped with a wide range of technical solutions, top-ranked engineers, ious kinds of automation systems, ranging from FPD transportation equipment, computer integration, robot application, industrial programmable controllers, material handling, and Solar cell equipments.

#### ◎ Water Treatment Product

- SIL2 Programmable Logic Controller (FS-800)

- Redundant Programmable Logic Controller(SoftPLC)



- Water Supply and Distributed Controller (SC-600)



- Gefran Water treatment industrial inverters (ADV-200WA)



#### ◎ Features and Benefits

- International functional safety standard IEC 61508

- Redundant controller with built-in optical fiber ring I/O capability /CPU with high execution efficiency/ Rich application instructions / Enhanced isolated modules / User-friendly programming package

- CPU with high execution efficiency / Rich application instructions / Enhanced isolated modules / User-friendly programming package

- For 230V / 400V / 690V, 0.75~1800kW Featured several control modes for water treatment industry Used for LCD programming interface Certification EN 61800-3CE,UL, cUL

### 主要產品及服務

盟立為台灣大型自動化系統整合之相關產品製造公司，為客戶提供自動倉庫與物流輸送設備，資訊網路設備與金融服務、機器人 應用、工業可編程控制器、自動儲運系統，和太陽能電池設備，提供整廠設備服務。

#### ◎ 水處理相關產品

- SIL2 可編程式控制器 (FS-800)

- 複聯式可編程式控制器 (SoftPLC)

- 配水加壓可編程式控制器 (SC-600)

- Gefran 水處理變頻器 (ADV-200WA)

#### ◎ 特點 & 優勢

- 符合國際功能安全標準 IEC 61508 之高階 PLC

- 具內建光纖環網 /O 能力之複聯式控制器 / 採高效 CPU 執行效率 佳 / 豐富的應用指令集 / 強化隔離型模組 / 人性化編輯軟體

- 採高效 CPU 執行效率佳 / 豐富的應用指令集 / 強化隔離型模組 / 人性化編輯軟體

- 支援 230V/400V/690V, 0.75~1800kW 多種控制模式應用於水處理產業 搭載 LCD 編程介面 通過 EN 61800-3CE, UL, cUL 認證

### About us

KetechInstrument, founded since 1992, has established its profound status as a professional instrument company with focus on water quality in-line monitoring analyzers, process instrumentation and system integration. Owing to our quality-guaranteed product and through after-sales service system, we are trusted and recognized as distributors and agents for many famous manufacturers. With wide range of product mix, we can fulfill various requirements for different customers. We also created our own brand, a pure 100% Taiwan manufactured ChemMITseries.

### ChemMITSeries : Ketech'sown brand product

Ketechhas developed its own brand product, ChemMITseries, since 1999 and has been recognized as a professional analyzer provider ever since. Its factory is situated in Kaohsiung where provides a good environment for developing state-of-the-art products and technologies for customers. ChemMIT' smain products include on-line heavy metal analyzers (Cu, Zn, Ni, Cr6+...), toxic ion analyzers (fluoride ion, cyanide...), and environmental analyzers, such as COD, ammonia, nitrogen, phosphate, pH , ORP, flow meter for various applications in science parks, industrial parks, power plants, water utilities andpetrochemical companies, electronic, chemical, printing & dying, steel industries.

### 公司簡介

儀展科技自 1992 年成立以來，已邁入第 25 個年頭，自詡為環保儀器、製程儀錶及系統整合之專業服務廠商，積極代理國外知名廠牌之環保與工業分析儀，也創立了自主研發、純正台灣製造的自有品牌 ChemMIT。

### ChemMIT 系列：儀展科技之自創品牌

自 1999 年開始研發一系列線上水質分析以及監測儀器，擁有許多的操作經驗與實績。專門從事污染源線上監測設備的研究開發，更進一步生產製造、銷售自創品牌 ChemMIT，因產品特色鮮明成功打入國際市場。

本公司的產品主要生產包括：

- ◎ 重金屬線上分析儀 (Cu、Zn、Ni、Cr6+ 等)
- ◎ 有毒離子分析儀 (氟離子、氰化物等)
- ◎ 環境檢測分析儀 如 COD、氨氮、磷酸鹽、銅離子、矽土等

應用範圍涵蓋科學園區、工業園區、電廠、自來水公司、廢水處理廠、塑化工廠、石油、電子、化工、印染、鋼鐵等相關企業。



YUAN TEAI CO. LTD. was established in Jia-Li Industry Park, Tainan City in 1967. As a professional water meter manufacturer, we set up a new pattern of new manufacturing, inventing and service model to lead in the field.

Our customers are over the country of Asia. All the product are widely used in water meters, water supply equipment and other related fields.

We have various certificate of type approval from 13mm up to 100mm water meter. We are the first water meter manufacturer to get water meter test laboratory certification of TAF which meets the standard of ISO 17025 in 2004. We also obtain self verification and inspection certificate issued by BSMI.

In the future we will focus to create more operational efficacy based on innovation. To become world leader of manufacturing water meter is our primary goal.

源泰公司成立於民國五十六年，總部設立於台灣台南佳里工業園區，領先業界設立專業水量計製造與服務模式。

源泰公司的客戶遍布國內與亞洲，為客戶生產的零組件被廣泛地運用在水量計、給水設備與其他相關應用領域。

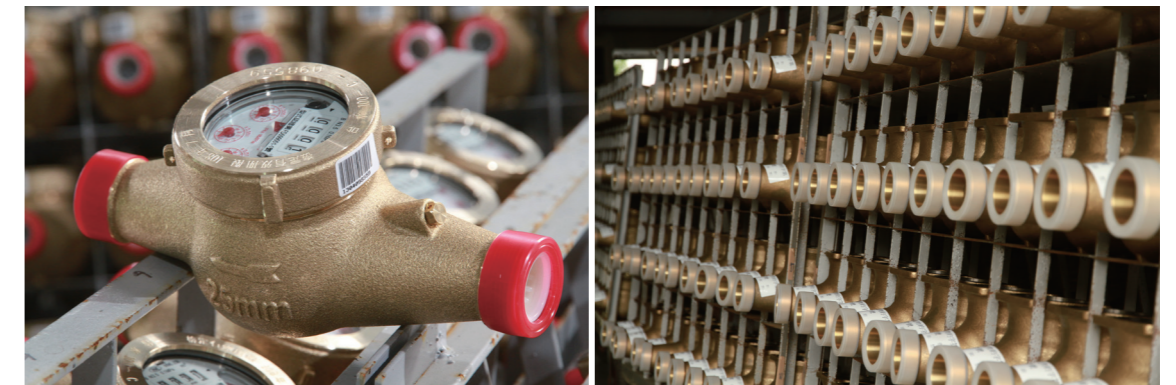
我們取得許多由口徑 13 公厘到 100 公厘的水量計形式認證，民國九十三年率先取得 TAF 水量計測試實驗室認證，符合 ISO17025 規範；並取得標準檢驗局自行檢定許可證書。

未來將強化營運效能，並以創新為核心，走向世界，成為全球卓越水量計經營集團。



Established in 2003, WME company is the professional domestic water meter manufacturer and has been cooperated with TWC (Taiwan Water Corporation) for many years.

In addition to produce mechanical water meter, WME also provides digital water meter for clients to develop AMR (Automatic Meter Reading) systems so as to capture real-time flow information to conduct data analysis. In terms of quality, WME considers QC as the priority and has been approved by ISO 9001. When it comes to services, we listen to clients requests and consistently search for innovation. WME will continue to provide the quality products for clients and measure every drop accurately.



銓準科技有限公司於 2003 年成立，台灣小口徑水量計專業製造廠家，主要生產家庭用水表，為台灣自來水事業單位長期的合作夥伴。

自來水計量上，除了生產機械型水量計產品，更提供數位電子式水量計，利於客戶建置自動讀表系統 (AMR)，即時掌握水量數據，進行後端數據分析。在品質上，致力於產品的品質管理，已通過 ISO9001 品質管理系統認證，替用戶計量品質嚴格把關；在服務上，用心傾聽每位客戶的需求，創新腳步不間斷。未來銓準將持續提供更精良產品，為每滴水準確計量。

## YI 儀鎮精機股份有限公司 YI-TZEN PRECISION INSTRUMENT CO., LTD

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TEL : +886-6-5701277 Website : www.yigen.mymailer.com.tw

The company was established on March 1979 which primarily focuses on manufacturing variety of water meters. We have been the supplier for Taiwan Water Corporation and Taipei Water Department for many years; and certified by Bureau of Standards, Metrology & Inspection, M.O.E.A; ROC and Metal Industries Research & Development centre. In addition, we are also the first company to receive international quality assurance certification ISO 9001 (CNS 12681) as a professional water meter manufacture. Base on these highest quality guidelines, we are continuing to focus on new product development and further strengthen on the quality to meet international standards of water meter production.

According to Article 27 of the Weights and Measures Regulations, all our products have been certified base on CNPA49 third edition, and the product performance meets the requirements of ISO4064 and CNS14866. On top of that, in accordance with Article 14 of the Weights and Measures Regulations, every product has been evaluated by the agency responsible for weights and measures, and meet the CNMV49 standard (Technical Specification Verification and Inspection of Water Meters).

On July 2004, we have been evaluated by National Accreditation Foundation of TAF Foundation as a national standard of compliance water meter testing laboratory. Our Laboratory utilizes advanced hardware and software equipments. With qualified technical personnel operate in accordance with standardize procedures, each test were obtained with high confidence (Reliability) which can help customers to test any brands of below 50 mm water meters.



本公司成立於民國 68 年 3 月，專營各種專業水表（水量計）之生產製造，多年來一直提供台灣及臺北自來水公司用戶產品，並於民國 87 年 9 月經商檢局與金屬工業研究中心評鑑通過，為國內第一家獲得國際品保認證 ISO9001 (CNS12681) 之水表專業製造廠商，並以此品保系統做為公司最高品質指導原則，不斷致力於新產品之研發以持續強化品質改善，以達到符合國際標準之水量計。

本公司產品依度量衡法第 27 條規定，均已取得 CNPA49 第三版之認可證書，性能符合 ISO 4064 和 CNS14866 要求。並依度量衡法第 14 條規定，由度量衡專責機關施予檢定，符合 CNMV49 (水量計檢定檢查技術規範)。

民國 93 年 7 月通過 TAF 財團法人全國認證基金會評鑑，成為符合國家標準之合格水量計測試實驗室。本實驗室使用先進設備之軟、硬體，並由合格技術人員依照法定的程序進行作業，得出每次測試皆是具有高可信 (Reliability) 之測試值，可幫客戶測試 50 公厘以下任何廠牌之水量計。

## 禾邇股份有限公司 GREAT HARVEST Ltd.

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No. 15, Aly. 1, Ln. 50, Sec. 2, Huanshan Rd., Neihu Dist., Taipei city, Taiwan (R.O.C.)  
TEL : +886-2-26578911

GREAT HARVEST Ltd. has been the largest water loss management company in Taiwan for more than 20 years.

We keep researching the technologies on varieties of water supply systems by implementing knowledge and instruments from all around the world. Besides being the local leadership, we have the experience working with foreign water utilities to solve the leakage problems in the United States.

禾邇公司為國內規模最大的漏水管理專業公司，成立已超過二十年。

導入國外先進的漏水管理觀念及設備，並積極研究適用於國內自來水系統的專業技術。除取得國內領導地位外，並輸出技術人員至美國，協助解決該地之自來水系統漏水問題。





## 敏泰資訊股份有限公司 Mintei Information Co., Ltd.

ADD : 11490 臺北市內湖區民權東路六段 245 巷 31 號  
No.31, Ln. 245, Sec. 6, Minquan E. Rd., Neihu Dist., Taipei 11490, Taiwan (R.O.C.)  
TEL : +886-2-27932705 Website : www.mintei.url.tw

Mintei Information Co., Ltd. (hereafter referred to as Mintei) was established in 2004. Mintei signed a technology transfer contract with “Japan Rikuchi Water Leakage Detection Corporation” to introduce Japanese professional techniques and equipment to Taiwan market. This makes Mintei the only one company which has fully transferred Japanese technology in Taiwan. We specialize in the areas of underground pipeline leak detection, underground pipeline survey, district meter areas (DMAs) and flow meter change business.

Realizing the importance of the work we are doing, Mintei continuously devote ourselves to train professional personnel as well as pick up a good deal of expertise. After 13 years of effort, we can proudly say that we earned recognition we deserve.

Currently, Mintei has 50 staffs, who have accomplished more than 100 projects in Taiwan.

敏泰資訊股份有限公司成立於民國 93 年，與「日本株式會社リクチ漏水調査公司」簽署技術提攜基本契約，引進日本專業技術及儀器，成為全台灣唯一擁有日本技術完全轉移的台灣測漏公司，致力於地下管線漏水檢測業務、地下管線調查、分區計量管網建置及水表更換業務。

由於體認到防漏事業及管線調查的重要性，敏泰公司不斷培養專業技術人員並研習防漏及探管的相關技術。經過 13 年的努力，我們可以很驕傲地說，我們已得到各方的認同。

敏泰公司目前員工共 50 名，由於訓練精良紮實及儀器精密準確，承蒙諸多公司惠顧指導，已有上百個工程實績在台灣不同的角落

## 中宇環保公司 China Ecotek Corporation

ADD : 80661 高雄市前鎮區成功二路 88 號 8 樓  
8F, No.88, Chenggong 2nd Road, Cianjhen District, Kaohsiung City 80661, Taiwan (R.O.C.)  
TEL : +886-7-3336138 Website : www.ecotek.com.tw

China Ecotek Corp. (CEC), established in March 1993. Having been devoted to cultivating its quality and enforcing its technology, CEC is currently an EPC professional in environmental, mechanical & electrical engineering, providing clients comprehensive services including system design, procurement, construction to commissioning, operation, as well as maintenance.



CEC's main business covers engineering projects of water treatment, air pollution control, conveyor systems, metallurgy, incineration plants, co-generation plants, power plants, and turnkey biotech & pharmaceutical plants. In addition, it is capable of operating plants and providing mechanical and electrical maintenance. Regarding overseas businesses, CEC has set foot in China and Southeast Asia for further businesses.

CEC employs its professionalism in engineering to expand businesses in material and mechanical equipment trading and to carry on the responsibility to protect our earth through cooperating with China Steel Corporation(CSC) to develop air, water, and waste-related environmental protection techniques.

中宇公司成立於 1993 年 3 月，目前已發展成為環保工程、公共工程與產業機電工程之 EPC 統包工程公司，可為顧客提供自系統設計、採購、建造、試車到操作與維護之一條鞭式的全面性服務。

中宇公司業務以垃圾焚化、水處理、空污防治、輸送系統及冶金、汽電、生技建廠工程等業務為主，且作必要的技術延伸，例如廢水回收、海水淡化、排氣脫硫、脫硝及脫戴奧辛等技術建立；並以工廠代營運與機電維護為輔。在海外業務拓展部分，已佈局中國大陸與東南亞等地區，包括成立「武漢華德環保工程公司」、「廈門茂宇進出口貿易有限公司」、「中宇越南責任有限公司」，以配合執行相關業務。

長期發展目標以既有核心工程為基礎，藉由建立工程生命週期與管理系統，提高 EPC 統包能力，為顧客創造價值；另外，利用工程專業開拓原、材料及機械設備的貿易事業，並配合中鋼環保產品研發，落實空、水、廢等環保工程領域，期望善盡保護地球的責任。



力麗集團 – 環工事業群 **山林水環境工程股份有限公司**  
Lealea Group - environment engineering business group **FOREST WATER ENVIRONMENTAL ENG'G LTD.**

ADD : 10459 臺北市中山區吉林路 99 號 3 樓  
3F., No.99, Jilin Rd., Zhongshan Dist., Taipei City 10459, Taiwan (R.O.C.)  
TEL : +886-2-21002195 Website : www.mfw.com.tw

Considering that environmental protection is the trend of the future, and with sewage system construction being categorized into the governmental administrative priority, for these reasons, in June 2004, the Group established "Forest Water Environmental Engineering Ltd." and recruited experienced specialists for full support, providing professional innovative technological services, pursuing perfection, together with the Group's philosophies of "Service", "Quality", "Professionalism" and "Technology", the purpose is to do our best for the environmental protection of Taiwan. Additionally, the water resource developments such as the desalination engineering, wastewater recycling and reuse and the water purification process engineering, which are the Company's major business developments.

The Company has a public offering (stock code : 8473) on September 8th, 2016, with actually paid capital of NT \$ 1,322,122,970 and currently has more than 500 employees distributing 27 business locations in Taiwan.

**Main business activities**

- ◎ Sewerage system works
- ◎ Water treatment works
- ◎ Wastewater recycling
- ◎ Underground pipeline laying works
- ◎ Industrial wastewater treatment works
- ◎ Desalination project
- ◎ Wastewater treatment plant operation and management
- ◎ Soil and groundwater pollution remediation

有鑑於環境保護是未來的趨勢，尤其是污水下水道系統建設更列入政府施政之重點，所以本集團遂於九十三年六月成立「山林水環境工程股份有限公司」，延攬經驗豐富的專業人員，在集團充沛的支援、專業創新的技術服務與堅持做到最好的理念下，並秉持本集團「服務」、「品質」、「專業」、「科技」的理念，為台灣的環境保護盡一份心力，另外對於水資源之開發，諸如海水淡化工程、廢水回收再利用、淨水處理工程是本公司業務發展重點。

本公司於 2016 年 9 月 8 日公開發行上市 ( 股票編號 : 8473 )，實收資本額為新台幣 1,322,122,970 元，目前擁有超過 500 名員工分布台灣 27 個營業據點。

**主要營業項目**

- ◎ 污水下水道系統工程
- ◎ 淨水處理工程
- ◎ 廢水回收再利用
- ◎ 地下管線埋設工程
- ◎ 工業廢水處理工程
- ◎ 海水淡化工程
- ◎ 污水處理廠營運管理
- ◎ 土壤及地下水污染防治

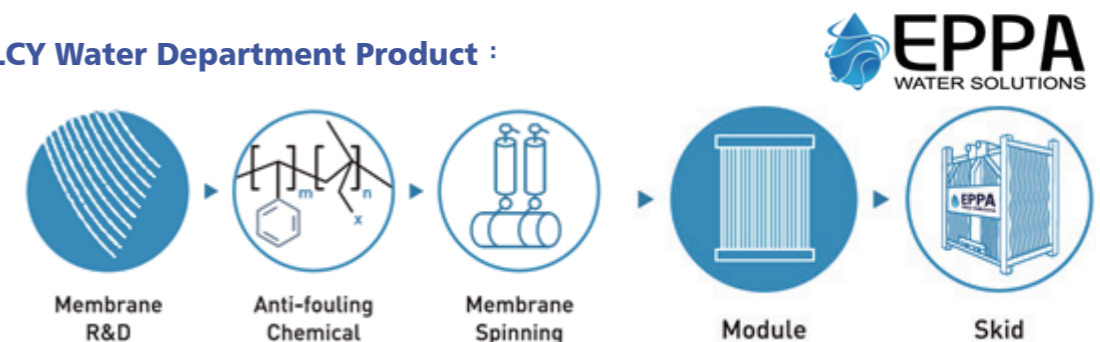


**李長榮化學工業股份有限公司**  
**LCY CHEMICAL CORP.**

ADD : 105 台北市八德路四段 83 號 4 樓  
4th Fl, 83, Sec.4, Bade Road, Taipei 105, Taiwan (R.O.C.)  
TEL : +886-2-27631611#110394 Website : www.lcygroup.com

Founded in 1965 and headquartered in Taipei, Taiwan, LCY Chemical Corp. has been in petrochemical business for more than 40 years and became listed on Taiwan Stock Exchange in 1977. Mr. Bwei Lee is currently President of LCY CHEMICAL CORP. Under his leadership since 1990, the goal is to be a world-class and state-of-the-art chemical company with revenue and profit growing 18 folds in 23 years. LCY integrates its operations into the business divisions of methanol, solvents, electronic-grade chemicals, rubber, performance plastics, water and energy. To enhance competitiveness, and increase revenue and profitability, each business division formulates their own future business strategies in the aspects of raw material procurement, production integration, product marketing, customer service, technological development and future development based on their short, medium and long-term needs.

**LCY Water Department Product :**



**MBR (Membrane BioReactor)**

- In-house technology from membrane fabrication, module potting, skid assembly to operation control
- Permeate quality meets the recycled water standard :
- SS<1.0mg/L; turbidity< 0.3NTU
- Provide MBR pilots for on-site performance evaluation
- Provide technical service for evaluating water treatment design and recycling

李長榮化學工業股份有限公司成立於 1965 年，經營石化原料領域逾 40 餘年，總部位於台灣台北市，1977 年起於台灣證券交易所上市。李謀偉先生自 1990 年起接任總經理，目前為李長榮化工的總裁，領導企業成為世界級先進化學公司，在李董事長的帶領下於 23 年內創造高達 18 倍的營收與獲利成長。李長榮化工依策略事業單位規畫，將公司營運策略整合為甲醇、溶劑、電子化學品、橡膠、高性能塑膠、水及能源等事業單位。各事業單位在原料採購、生產統合、產品行銷、客戶服務、技術開發、及未來發展，均依短、中、長期之需求，擬定未來經營策略，以增強競爭力，提高營收及獲利能力。



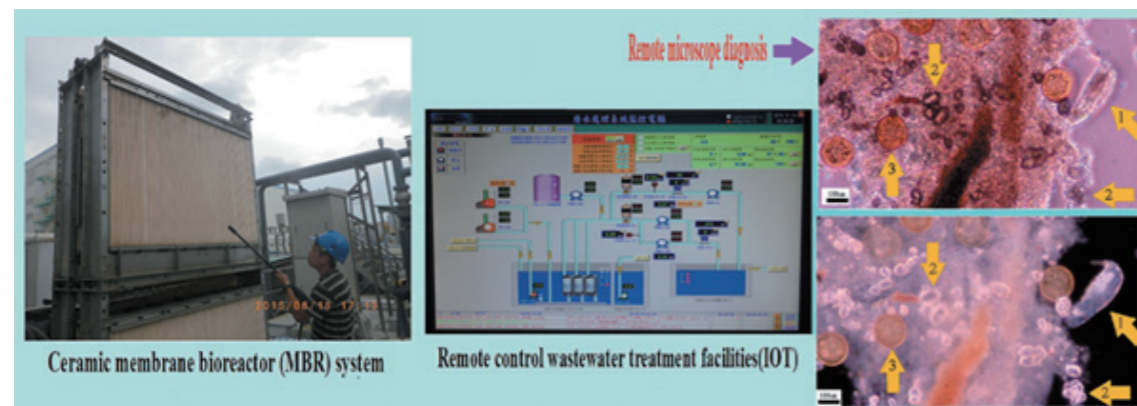
## 祥泰綠色科技有限公司 HT Green Technology Co., Ltd

ADD : 10595 臺北市松山區復興北路 1 號 14 樓之 7  
14F-7, NO.1, Fuxing N. Rd., Taipei City 10595, Taiwan (R.O.C.)  
TEL : +886-2-77308819 Website : www.htgreen.com.tw

HT Green Technology Co., Ltd(HTG) was established in 2013. The president of HTG is Frank who is APEC engineer and has 32 years on environmental engineer and monitoring.

### The core technology of HTG :

- ◎ big data and Cloud computing to diagnose pollution problems instantly.
- ◎ Internet of things(IOT) to remote control water and wastewater treatment facilities.
- ◎ waterproof multirotor UAV in environment take samples and long term monitoring.
- ◎ ceramic membrane bioreactor (CMBR) system to water treatment and recycling.



祥泰綠色科技有限公司於 2013 年所創立，創始人林正祥亞太工程師有 32 年環境工程經驗。

### 祥泰公司核心技術：

- ◎ 運用大數據雲端技術立即診斷各種水體的污染狀況。
- ◎ 應用物聯網遠端監控水資源及廢水處理與水回收操作。
- ◎ 防水多軸飛行水體採樣器，有利於水體長期監測。
- ◎ 應用陶瓷平版 MBR 處理廢水與進行水回收。

## H+R 健鑫環境工程股份有限公司 H PLUS R ENVIRONMENTAL ENG'G CO., LTD.

ADD : 32667 桃園市楊梅區高青路 39 號  
No.39, Gaoqing Rd., Yangmei Dist., Taoyuan City 32667, Taiwan (R.O.C.)  
TEL : +886-3-4785478 Website : www.hplusr.com.tw

- ◎ DESIGN, CONSTRUCTION OF WASTEWATER TREATMENT PLANT.
- ◎ DESIGN, CONSTRUCTION OF WATER PURIFICATION SYSTEM.
- ◎ MANUFACTURE, SUPPLY OF HYDRAULIC EQUIPMENT

- ◎ 工廠廢水、社區污水、畜牧養殖污水處理之設計及施工
- ◎ 工業用水、軟水、純水處理之設計及施工
- ◎ 環保設備之專業製造



1. Gate and General Lifting Device 閘門及吊門機設備
2. Cable Operated Bar Screen 鋼索式耙污機
3. Traveling Band Screen 迴轉式攔污柵
4. Drum Screen and Micro Screen 細節機及超微細節機



5. Chain Sludge Collector 鏈條式刮泥設備
6. Sludge Scraper 刮泥機設備
7. Dissolving Air Flotation System 超高速加壓浮選設備
8. Aerated Grit and Grease Removal Equipment 曝氣沉砂除油設備