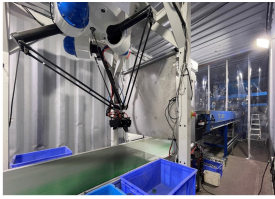


應用案例 / Applications

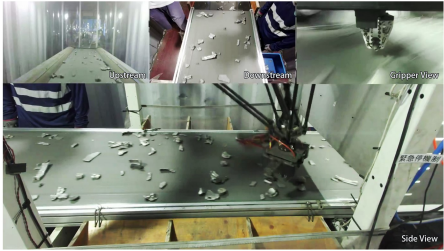


部署於客戶現場的
MightySort™原型機
MightySort™ prototype
deployed at client's site

@ 香港-元朗
Yuen Long, Hong Kong

@150mt/d | ↓74% | 11 months

客戶一間日吞吐量為150公噸的工廠，藉助8臺MightySort™智能機械人分選系統，可節約74%人力開銷(相當於每月節省63萬港元)，進而在11個月內收回前期投入。同時，可顯著提升生產線自動化水平，並大幅降低噪聲及揚塵污染。
The client's factory, with a daily throughput of 150 metric tonnes, can save 74% on labour costs (equivalent to a saving of HK\$ 630,000 per month) by using eight MightySort™ intelligent robotic sorting systems, and the payback period is only 11 months. In addition, the level of automation is improved and noise and dust are drastically reduced.



多視角系統實際運行情況
Multi-view screen of the actual operation of the system



公司網站 / Website:



sotarobotics.com

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公司地址 / Address: R15, RCC 2.0, 1/F, 19W,
Hong Kong Science Park,
Pak Shek Kok, N.T., Hong Kong

Version: 2023.1



時宜機械人科技(香港)有限公司
SOTA Robotics (HK) Limited

#資源回收 #固廢審計 #ESG 先進自動化解決方案

Advanced automation solutions for
#waste sorting #auditing and #ESG

香港首家工業級有色金屬負向分選機械人系統提供商

Hong Kong's first industrial-grade non-ferrous metal
negative sorting robot system provider

獲大學科技初創企業資助計劃/
香港科學園創科培育計劃支持

ITC HKSTP
TSSSU Incubation
2023-2024 2023-2026



願景: 用尖端機械人科技賦能全球回收鏈
Vision: Empowering the global recycling chain with
state-of-the-art (SOTA) robotics technology

使命: 路不拾遺, 時宜拾遺
Mission: 揀多點, 揀少點
Sort more. Dump less.

公司簡介 / Company Info

時宜機械人科技2022年成立於香港中文大學。致力於研發和銷售高價值固廢分選、審計和ESG自動化解決方案。推動全球回收鏈技術革新和社會可持續發展。通過紮實的研發和與行業的密切合作，已開發多種先進機械人產品，包括有色金屬負向分選機械人系統，智能分選回收桶，以及芯片回收微工廠。公司專有的感知、識別、機構和控制技術為客戶提供了精確、高效、高性价比的產品。

目前，固體廢物的拆解、分離和分選仍依賴人工。時宜致力於利用最先進的機械人及人工智能技術，以客戶需求為導向解決這一問題，為環境保護和社會的可持續發展做出積極貢獻。

SOTA Robotics was founded in 2022 at The Chinese University of Hong Kong. We are committed to the R&D and sales of automated waste sorting, auditing and ESG solutions, and to promote technological innovation and sustainability in the global recycling chain. Through solid research and close collaboration with the industry, we have developed advanced robotic products, including non-ferrous mixed metal sorting system, smart recyclables sorting bin and IC recycling microfactory. Our proprietary perception, recognition, mechanism and control technologies provide customers with accurate, cost-effective and efficient (ACE) products.

To date, the disassembly, separation and sorting of solid waste still relies on manual labour. SOTA Robotics is committed to using state-of-the-art robotics and AI to solve this problem based on customer needs, thus making a positive contribution to environmental protection and sustainable development of society.

創始團隊 / Founding Team



陳菲 助理教授
Prof Fei CHEN
董事會主席, 首席執行官
Chairman, CEO



董志鵬 博士
Dr Zhipeng DONG (Damon)
首席運營官
COO



王世雄 博士
Dr Shixiong WANG
首席技術官
CTO

技術實力 / Technologies

15+ yrs

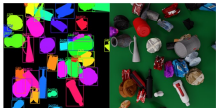
機械人及人工智能研發經驗
Experience in robot and AI R&D

8+

知識產權
Intellectual property

4+

自主研發智能分選多項關鍵技術
Domains mastered for smart sorting



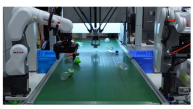
大數據&人工智能技術
Big data & AI technology



多傳感器融合&識別定位技術
Multi-sensor fusion & detection technology



機電一體化氣動機構技術
Mechatronics & pneumatic technology



高速高精度協同控制技術
High-speed & precision control technology

主要客戶 / Major Clients

大正金屬
Delta Metal

中國再生鋁合金生產龍頭企業
China's leading secondary aluminum
alloy production enterprise

威立雅
Veolia

法國跨國環保集團
French multinational environmental
protection group

碧瑤
Baguio

港股上市公司, 香港主要固廢管理承包商
Hong Kong listed company and major
solid waste management contractor

義合環保
Yee Hop

持牌芯片回收及處理商, 微軟合作夥伴
Licensed chip recycler and processor,
Microsoft selected partner

服務保障 / Service Guarantee

我們提供包括產品選型、應用部署、維修質保、在線診斷等產品全生命週期服務。
We provide full lifecycle service, including product selection, application deployment, maintenance warranty, online diagnostics, and more.



7×24h
全天候響應
Response



<12h
提出解決方案
Solution



<36h
恢復設備運行
Repair

核心產品 / Core Products



MightySort™

有色金屬負向分選機械人系統
Non-ferrous metal negative
sorting robotic system

掃碼了解更多
Scan qr-code to
learn more



10+

可分選混合鋁金屬廢料中10種雜質，
並可根據用戶需求進一步拓展
Sorts more than 10 types
(expandable) of impurities in scrap
metal (mainly aluminium)



分離度 (DoS): >80%

單機可分離來料中80%以上的雜質
Separates more than 80% of the
impurities in incoming materials

處理量 (HC): 30mt/d

單機日處理量達30公噸, 替代4-5名工人
The daily handling capacity reaches up
to 30 tonnes and replaces 4-5 workers



MagicSort™

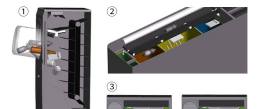
城市可回收物智能分選回收箱
Urban recyclables smart
sorting recycling bin

掃碼了解更多
Scan qr-code to
learn more



4+1

可識別並分選4類可回收物及雜質
Can identify and sort 4 types of
recyclables and impurities



3+20

3項核心功能, 20餘項支撐功能
3 core functions, more than 20
supporting functions



MicroSort™

集裝箱式芯片自動回收微工廠
Containerised automatic IC
recycling microfactory

主要功能:
Main Functions:



解焊
Desoldering

芯片質檢
Chip quality inspection



按類及質量分選
Sort by category and quality



SOTABrain™

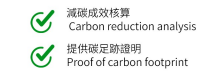
通用智能回收設備運維及
碳資產綜合管理雲平台
General cloud platform for smart
recycling equipment O&M and
carbon asset management

主要功能:
Main Functions:



雙源同步數字孿生
Digital twin

遠程運維支持
Remote support



減碳成效核算
Carbon reduction analysis

提供碳足跡證明
Proof of carbon footprint