

AEL



MOBILE REFUSE COMPACTOR 流动式压缩机

Associated Engineers, Ltd. (AEL) was established in 1961 as a specialist electrical and mechanical equipment repair and maintenance services provider for airports. Over half a century, we have broadened our service offerings to encompass in construction structural steel, material handling system, solid waste management, biological food waste treatment and aircraft maintenance docking system. With extensive experience and professional technical knowledge, AEL offers one-stop services from consulting, design, manufacturing, project management, commissioning and after-sales maintenance. Appreciating the importance of product quality, production safety and environmental protection, AEL is accredited with various international achievements including ISO9001, ISO14001, ISO50001 and OHSAS18001.

香港联谊工程(联谊)成立于1961年,成立初期致力于提供机场设备的维修和维护服务,其后业务逐渐扩展至其他领域,包括钢结构建造、机械运输系统、固体垃圾处理、生物式处理厨余废弃物和飞机维修系统。凭借专业的技术和卓越的服务,联谊致力提供一站式服务,从咨询、设计、生产、项目管理、委托到售后维修。联谊一直视产品质量、生产安全和环境保护为企业的先要,并已获得ISO9001、ISO14001、ISO50001、OHSAS18001国际认证。

Why choose AEL? 为何选择联谊？

A waste management team you can rely on 您可以信赖的废物处理专业

Fostering excellence through knowledge and experience

承传知识 屡创佳绩

AEL introduces the know-how of refuse transfer stations from Australia to China. Through consistent R&D in optimizing compaction system, AEL has designed and manufactured over 1,000 refuse compaction facilities widely used in China. One of our milestones is being selected among nearly 20 international companies' tenders as the waste management solutions provider at the 2008 Olympic Games in Beijing.

联谊将转运站概念由澳洲引进中国。经过不断研发压缩处理技术，联谊先后在内地城市设计及建造近一千个垃圾压缩设备。我们更成功于 2008 年在近 20 個國際企業標書中拿下北京奥运会项目，于奥运会期间提供垃圾处理服务，为联谊创下下一个里程碑。

A commitment to a greener future

建设绿色未来

AEL strives to provide a greener future for customers and communities through expanding business in the environmental field over the past 20 years, including Residential Refuse Handling Systems, Automated Refuse Collection Systems and Mobile Refuse Compactors. Our waste compacting business started in the early 90s with the acquisition of 'Waste Compaction Co Ltd' from Melbourne, Australia. We further refine this technology with enhanced water-proofing and robustness to handle waste in Asia. Till now, we have sold over 1,000 compactor systems to a diverse range of users from municipality, waste operators, private businesses and theme parks.

联谊的使命是为客户和社会提供一个绿色的美好将来。联谊在过去二十年已积极开拓环境卫生工程业务，如住宅区垃圾槽、中央垃圾收集系统、固定和流动垃圾压缩机等。他们在亚洲原有的垃圾处理科技技术，包括其防水功能及耐用性。直至今日，我们已成功卖出逾一千个压缩系统及有效地将这技术发展至不同的范畴，例如由当地市政府、废物处理商、私营企业以至主题公园。



Mobile Refuse Compactor 流动式压缩机

As one of AEL's self-developed environmental products, Superpak is suitable for collection, short-term storage, compaction and transport in city streets, residential areas, tourist attractions and commercial centers. Superpak has a feature of double sealed structure that fully encloses the refuse and wastewater. Its design not only prevents the breeding of vectors, but also blocks the odour, reducing the spreading of germs while maintaining a healthy and safe environment. With flexible installation, Superpak can be simply transferred among sites by hook lift trucks, which is a perfect solution for managing municipal solid waste.

流动式压缩机是联谊自主开发研制的环卫系列产品之一，适用于城市街道、生活小区、旅游景区、商业中心的垃圾收集，短时储存及减容转运。垃圾压缩机具双重密闭结构，垃圾完全封闭储存，污水不外溢，完全避免蚊虫及病媒的滋生，更可阻隔垃圾臭味，减少病菌传染，安全卫生。流动式压缩机安置灵活，无需固定建筑，与钩臂车配合使用，将压缩机从一个地方移动到另一个地方，是城市生活垃圾处理的理想设备。

Remote Access 远程监测

To achieve smart waste management and promote automation in refuse transfer, remote access to our mobile refuse compactors is provided through our cloud based system.

为了实现智能废物管理和促进垃圾中转站自动化，我们透过云端系统提供流动式压缩机的远程监测给您。



Real-time loading monitoring 实时负荷监测

Loading of each mobile refuse compactor is monitored real-time for users to check the conditions of the compactors remotely.

每部流动式压缩机均对负荷作出实时监测，以供用户远程监测压缩机的运行状态。

Global Positioning System (GPS) Tracking 全球定位系统

Through GPS modules, locations of all mobile refuse compactors are constantly tracked by our cloud based system and displayed to users for enhancing waste management efficiency.

透过全球定位模块，云端系统不断跟踪所有流动式压缩机的位置并显示给用户，以提高垃圾管理的效率。



Indication of capacity 剩余容量指示

Through our online database, our cloud based system indicates the remaining capacity of each mobile refuse compactor for users to facilitate planning of smart refuse collection.

通过我们的线上数据库，我们的云端系统指示每部流动式压缩机的剩余容量，为用户实现智能垃圾收集的规划。

Product Features 产品特色

Structural and mechanical design tailor-made for wet waste, fitting waste characteristics in China and South East Asia

结构及机械以处理湿垃圾为依据，对准中国和东南亚的垃圾特性

Automatic operation with options of bin lifter or tipper to enhance refuse collection efficiency and reduce labour costs

翻桶式或翻斗式设计，操作自动化，提高垃圾收集效率并节省人事费用

High compaction ratio with volume reduction to 75%. Fast compaction cycle, ideal for frequent and regular refuse collection

高强度压缩，有效实现垃圾减容高达 75%。快速压缩周期，非常适合经常和定期的垃圾收集

Hydraulic compaction system with reduced machine wear and high thermal resistance, suitable for tropical climate

液压动力系统推动，耐热性强，减少机器损耗

Stainless steel double-layered structure and multi-lock of tailgate door ensure 100% leakproof

不锈钢内槽双层密闭结构，尾门双重锁紧装置，100% 防滴漏

Visual operating control panel with wireless remote functions to enhance safety and reliability

液压可视操作控制面板，同时增加无线遥控功能，安全可靠

Tapered sides and rounded guides present in containers to allow complete unloading during infeed

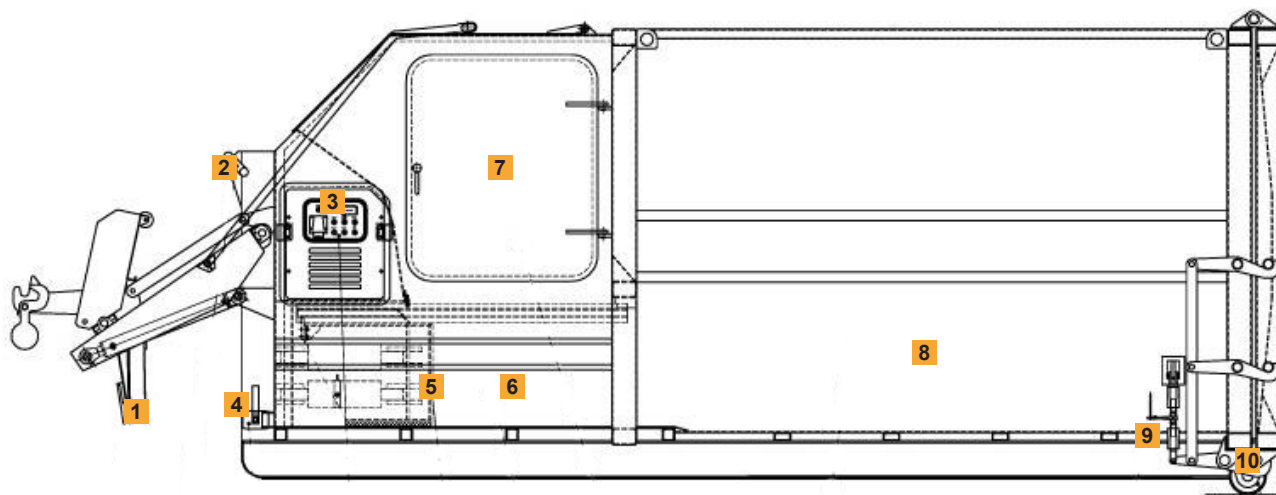
箱内采用三面锥度及圆角导流设计，卸料完全

Integrated body design with hydraulic and mechatronic systems complying with international standards

机箱一体化设计，液压及电控系统符合国际标准

Product Description

流动式压缩机外型结构图



- | | | |
|--|--------------------------------|---|
| 1. Bin lifter
翻起机构 | 4. Drain valve
排污阀 | 8. Refuse container
垃圾集装箱 |
| 2. Lifting lug
吊耳 | 5. Compaction head
压缩头 | 9. Rear door with locking devices
尾门连动锁紧装置 |
| 3. Control panel, electrical enclosure,
hydraulic pump cabinet
控制面板及电控箱和液压泵站 | 6. Compaction chamber
不压缩腔体 | 10. Transport wheel
滚动轮 |
| | 7. Side access door
侧门 | |

Operation Sequence

流动式压缩机运作流程

01

The refuse bin is attached to the bin lifter / Refuse is deposited into the tipper.
垃圾桶接驳翻桶机 / 垃圾投放于翻斗。

02

Refuse is transferred into the compaction chamber by the bin lifter or the tipper.
垃圾由翻桶机或翻斗投进压缩腔体。

03

Refuse is compacted in the chamber and transferred to the container.
垃圾在腔体内进行压缩并转移至集装箱里。

04

The mobile refuse compactor is transported away by a hook lift vehicle.
流动式压缩机由挂钩型车辆运走。



Job References 工程实绩

AEL has supplied and installed refuse compaction facilities in numerous provinces and cities in China, earning acclaim from government officials and public citizens. Here are some of our most characteristic cases:

联谊已为中国多个省市制造及安装垃圾压缩设备，深受国内环卫部门及各地市民好评，以上是部份流动式压缩机代表性案例：



Product Specifications

系列规格说明

Model 型号	APC08	APC15	APC18
Container capacity (m ³) 装载容积	8	15	18
Maximum compaction force (kN) 最大压缩力	≥280	≥300	≥300
Disposal amount per cycle (m ³) 每循环垃圾处理量	≥1	≥1	≥1
Infeed method 上料方式	Bin lifter or tipper 翻桶或翻斗	Bin lifter or tipper 翻桶或翻斗	Bin lifter or tipper 翻桶或翻斗
Compaction cycle time (s) 推头每循环时间	≤40	≤40	≤40
Compaction stroke (mm) 压缩头行程	950	1280	1280
Noise (dB) 噪音	≤75	≤75	≤75
Compaction piston size (mm) 压缩头尺寸	500(L) x 1880(W)	500(L) x 1880(W)	500(L) x 1880(W)
Feeding hole size (mm) 投料口尺寸	1400(L) x 1880(W)	1400(L) x 1880(W)	1400(L) x 1880(W)
Length (mm) 长	4500	5700	6200
Width (mm) 宽	2490	2490	2490
Height (mm) 高	2200	2400	2460
Gross weight (kg) 总重量	4700	5200	5500
Electrical power (kW) 电机功率	5.5	5.5	5.5
Power supply 电源供应	380V, 15A	380V, 15A	380V, 15A



联谊工程有限公司
Associated Engineers, Ltd
 香港九龙新蒲岗太子道东698号宝光商业中心23楼
 23/F Stelux House, 698 Prince Edward Road East,
 San Po Kong, Kowloon, Hong Kong
 电话 Tel: (852) 2767 1000
 传真 Fax: (852) 2767 2000
 电邮 Email: info@ael.hk
 网页 Website: www.ael.hk

珠海经济特区联谊机电工程有限公司
Associated Engineers Zhuhai S.E.Z. Ltd.
 中国广东省珠海市前山造贝工业区
 Zaobei Industrial Zone, Qianshan, Zhuhai City,
 Guangdong, PRC
 电话 Tel: (86) (756) 861 5663
 传真 Fax: (86) (756) 861 5303
 电邮 Email: gmo@zael.cn
 邮编 Postal code: 519070