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1. About Yeloworld

关于Yeloworld



上海乐橘科技有限公司(简称“乐橘”)致力于为企业客户打造基于智能包装及智能物流的工业物联网平台,旗下品牌包括 Yeloflex 乐橘管理平台、Yelopack 乐橘云盘、Yelotour 乐橘云途、Yelospace 乐橘云仓和 Yelolife 乐橘新生等。

本着“连接全球商业”的原则,用户可以在乐橘高效庞大的技术平台上,轻松使用智能包装、智能仓储以及智能物流,并与乐橘一起构建工厂、包装服务商、物流企业的物联网新生态。

乐橘重视塑料制品的循环利用,旗下包装产品均按国家标准进行循环回收,同时运用更为环保的材料,保护自然环境、节约原油资源。除了提供包装回收服务,乐橘也在为搭建高效的循环物流网络竭尽所能。基于乐橘自研的物联网芯片与核心算法,用户将享受到成本更低的智能包装服务。

定位 专注于基于智能包装、智能物流、智能仓储的工业物联网服务企业。

理念 基于“连接全球商业”的理念,通过高效庞大的技术平台,让客户轻松使用智能包装、物流、仓储,构建物联网新生态。

目标 将移动互联网、物联网、大数据、云计算以及高精度的定位技术融入到智能包装中,实现包装自主定位并上传数据,从而达成货物信息与包装的深度连接,实现货物间的轻松“对话”。

Shanghai Yeloworld Technology Co., LTD.(referred to as "Yeloworld") is devoted to creating the Industrial NB-IoT platform based on intelligent packaging and logistics for enterprise clients, wherein our brands include the Yeloflex, Yelopack, Yelotour, Yelospace, Yelolife, etc.

Based on the principle of "click to global business", users can easily use intelligent packaging, warehousing and logistics on the efficient and enormous technological platform of Yeloworld, and establish the NB-IoT nascent state of factories, packaging service suppliers and logistics enterprises along with Yeloworld.

Yeloworld pays attention to recycling of plastic products, our packaging products are recycled according to national standards, meanwhile, by using more environment-friendly materials, the natural environment is protected, and crude oil resources are saved. Besides providing the packaging recycling service, Yeloworld also does the best to set up the efficient cycle logistics network. Based on the NB-IoT chip and the core algorithm self-developed by Yeloworld, users can enjoy the intelligent packaging service at a lower cost.

Positioning: Yeloworld is committed to being an industrial NB-IoT service enterprise based on intelligent packaging, logistics and warehousing.

Concept: Based on the concept of "click to global business", clients can easily use intelligent packaging, logistics and warehousing to establish the NB-IoT nascent state through the efficient and huge technical platform.

Objective: The Mobile Internet, the Internet of Things, big data, cloud computing and the high-precision positioning technology are integrated into intelligent packaging that can realize the packaging positioning and data uploading. Thus, deep connection between cargo information and packaging have been achieved.

1.1 Milestones

大事记

2021年

2月,乐橘作为 GRPG 成员之一,共同起草的《塑料制品易回收易再生设计评价通则》(标准号: T/CRRA 0302—2020)由中国物资再生协会正式发布,于2月1日正式实施。

3月,乐橘与陶氏(Dow)共同达成智能共享包装合作协议。

4月,乐橘运营托盘数量突破100万片。

4月,乐橘与南京电信达成战略合作关系。

5月,获中国商品条码系统成员证书。

6月,乐橘受邀出席2021中国聚烯烃大会。

8月,12家单位与乐橘共同起草的《合成树脂用塑料平托盘共用管理规范》(T/CFLP 003-2021)团体标准正式发布,并于9月15日落地实施。

9月,乐橘与万华化学共同研发无人叉车装车项目。

9月,乐橘获CQC认可,使用乐橘云盘能够有效减少碳足迹。

10月,乐橘完成B轮超亿元融资,本轮融资由万华化学与高瓴创投联合投资。

10月,乐橘受邀参加第四届物流包装技术发展大会,获评“二〇二一年度物流包装优秀案例”。

10月,乐橘可循环智能共享包装产业化项目奠基。

12月,乐橘2021年运营托盘数量突破200万片。

In February, as one of the members of GRPG, Yeloworld co-drafted the *General guidelines for the evaluation of plastics products' easy-to-collect & easy-to-regenerate design* (Standard No. T/CRRA 0302-2020) (referred to as "Double Easy Design"), which was officially released by CRRA and officially implemented on February 1.

In March, Yeloworld and Dow have reached a cooperation agreement on intelligent shared packaging.

In April, the number of Yeloworld operating pallets exceeded 1 million pieces.

In April, Yeloworld and Nanjing Telecom built a strategic partnership.

In May, Yeloworld got the membership certificate of China Commodity Barcode System.

In June, Yeloworld was invited to attend the 2021 China Polyolefin Conference.

In August, Yeloworld and 12 companies jointly drafted the group standard *Management Specifications for the Sharing of Plastic Flat Pallets for Synthetic Resins*(T/CFLP 003-2021) was officially released, and landed for implemented on September 15.

In September, Yeloworld and Wanhua Chemical jointly launched the project of developing AGV loading.

In September, CQC confirmed that using Yelopack pallets can effectively reduce carbon footprint.

In October, Yeloworld raised Series B funding of over 100 million yuan from Wanhua Chemical and GL Ventures.

In October, Yeloworld was invited to the 4th Logistics Packaging Technology Development Conference and awarded the *Excellent Case of Packaging Industry in 2021*.

In October, Yeloworld held a ground-breaking ceremony for Circular Intelligent Shared Packaging Industrialization Project.

In December, the number of pallets operated by Yeloworld 2021 exceeded 2 million.

2020年

1月,上海市工经联、经团联授予乐橘“2019年企业科技创新最佳案例”奖。

2月,乐橘助力赛科石化、中韩石化、青岛炼化、兰州石化全力战“疫”,保供Yelopack智能托盘18万片。

5月,乐橘召开第一届智能循环包装大会,与行业协会、合作伙伴共同推进共享包装智能化解决方案。

6月,乐橘与沙特阿美签订协议,迈出全球智能包装战略的重要一步。

7月,乐橘全自动托盘生产线于广东湛江投产。

11月,乐橘与亨斯迈、万华化学共同达成智能共享包装合作协议。

In January, Yeloworld was awarded as *the Best Case of Enterprise Science and Technology Innovation in 2019* by the Shanghai Federation of Industrial Economics and Shanghai Federation of Economic Organizations.

In February, Yeloworld assisted Secco Petrochemical Co., Ltd., SINOPEC-SK Petrochemical Co., Ltd., SINOPEC Qingdao Refining and Chemical Co., Ltd. and Lanzhou Petrochemical Co., Ltd. in fully fighting the COVID-19, and supplied 180,000 Yelopack intelligent pallets.

In May, Yeloworld held the 1st Intelligent Circular Packaging Forum, and jointly propelled the shared packaging intelligent solution along with industry associations and partners.

In June, Yeloworld signed an agreement with Saudi Aramco, moving an important step toward global intelligent packaging strategy.

In July, Yeloworld automatic pallet production line was put into operation in Zhanjiang, Guangdong.

In November, Yeloworld reached a shared packaging cooperation agreement with Huntsman and Wanhua Chemical.

2019年

2019年,乐橘运营的包装总数量达到20万,帮助中石化、中石油、扬子石化—巴斯夫、赛科石化、福建炼化在内的2000多位化工企业客户打造智能循环包装网络。

同年,乐橘发布一代吹塑托盘、二代组合与注塑托盘,不断更新产品性能,满足企业客户98%的使用场景,为用户带来无缝协同体验。

5月,乐橘召开中国石化合成树脂用共享托盘推广会,携手上下游产业链重新定义智能共享包装。

7月,12家单位与乐橘共同推进《合成树脂产品共享托盘管理规范》团体标准。

9月,乐橘作为战略合作单位出席第七届中国国际化物流供应链峰会。

12月,乐橘分别受邀出席第六届化学品包装及贮运论坛、2019全国化工物流行业年会并获金罐奖。

In 2019, the total quantity of packaging operated by Yeloworld achieved 200,000 and Yeloworld helped more than 2,000 chemical enterprise customers including Sinopec, PetroChina, Yangzi Petrochemical-BASF, Secco Petrochemical Co., Ltd. and Fujian Petrochemical Co., Ltd. in creating the intelligent recycle packaging network.

In 2019, Yeloworld issued first-generation blow molded pallets and second-generation composite and injection molding pallets, continuously updated the product performance, met 98% of use scenes of enterprise customers, and brought seamless collaborative experience for the users.

In May, Yeloworld held the promotion conference of shared pallets for SINOPEC synthetic resin and cooperated with upstream and downstream industry chains to redefine intelligent shared packaging.

In July, 12 companies and Yeloworld jointly promoted the *Management Specification for Shared Pallets of Synthetic Resins*.

In September, Yeloworld, as strategic partner, attended the 7th International Chemical Logistics Supply Chain Summit in China.

In December, Yeloworld was invited to attend the 6th Chemical Packaging & Logistics Forum and 2019 National Chemical and Logistics Annual Party, receiving the Golden Can Award.

1.2 Yeloworld Ecological Layout

乐橘生态布局

乐橘以包装循环共用为核心建立从摇篮到摇篮的塑料包装循环新模式,现已成为共享包装、仓储、物流、废旧塑料回收再生及供应链服务的综合型公司,各项业务在庞大的信息物流网络下,形成了较强的协同效应。

Yeloworld has established a new model of plastic packaging recycling from cradle to cradle with the core of packaging recycling. Now we have become an integrated company which provides shared packaging, storage, logistics, waste plastic recycling and supply chain services, and all businesses have formed a strong synergy effect under the huge information and logistics network.



1.3 Trademarks and Patents

商标与专利

在智能循环包装领域，乐橘始终坚持自主研发与技术创新，通过材料、工艺、物联网、大数据、云计算和高精度定位等技术，开发出拥有自主知识产权、性能优良的包装产品。

In the field of intelligent recycling packaging, Yeloworld always insists on independent research and technological innovation, and develops packaging products with independent intellectual property rights and excellent performance through technologies such as material, process, Internet of Things, big data, cloud computing and high-precision positioning.

未来，乐橘将继续把创新研发作为立身之本，持续增加研发投入和技术创新力度，加快促进科技成果转化，并与多方积极合作，共同进行新产品、新技术的研究。

In the future, Yeloworld will continue to take innovation and research as its foundation, continue to increase investment in R&D and technological innovation, promote the transformation of scientific and technological achievements, and actively cooperate with many parties and jointly conduct research on new products and technologies.

乐橘已获专利情况 The obtained patents

专利类型 Patent Type	申请号 Application Number	专利类型 Patent Type	申请号 Application Number
实用新型 Utility Model	CN202121591796.4	实用新型 Utility Model	CN202121094472.X
实用新型 Utility Model	CN202121490995.6	实用新型 Utility Model	CN202121019415.5
实用新型 Utility Model	CN202121490994.1	实用新型 Utility Model	CN202120704939.1
实用新型 Utility Model	CN202121407206.8	实用新型 Utility Model	CN202120704936.8
实用新型 Utility Model	CN202121397773.X	实用新型 Utility Model	CN202120702218.7
实用新型 Utility Model	CN202121382084.1	实用新型 Utility Model	CN202120703972.2
实用新型 Utility Model	CN202121369085.2	实用新型 Utility Model	CN202120694346.1
实用新型 Utility Model	CN202121351824.5	实用新型 Utility Model	CN202022653210.4

1.4 Research and Innovation

研究与创新

乐橘将从基于客户需求的NB-IoT智能循环包装解决方案1.0时代，迈向基于物联网新生态愿景驱动的技术创新2.0时代。

From the 1.0 era of NB-IoT intelligent circular packaging solutions based on client needs, Yeloworld will step forward to the 2.0 era of technological innovation driven by the vision of the new ecosystem of the Internet of Things.



乐橘坚持每年将10%以上的收入投入智能包装及复合环保材料研究与开发。

Yeloworld insists on investing more than 10% of revenue each year in research and development of intelligent packaging and composite environment-friendly materials.



截至2021年，从事研究与开发的人员约占乐橘总人数34%。

By 2021, staffs engaged in research and development account for about 34% of the total number of Yeloworld.



乐橘获得的专利及软件著作权均为自主研发。

Patents and software copyrights are independently developed by Yeloworld.



Yeloworld聚焦物联网、智能包装、技术平台三大领域，在产品、技术、工厂实验等方面持续投入，为企业客户实现数字化转型构建基石。

Yeloworld focuses on 3 fields of IoT, intelligent packaging and technology platform, continually investing in products, technology, factory experiments and others to build the foundation for corporate customers' realization of digital transformation.

1.5 Global Distribution Network

全球网点布局



注：地图取自中华人民共和国自然资源部标准地图服务系统网站，审图号：GS（2016）1611号 自然资源部监制
 Note: The map is taken from the website of the standard map service system of the Ministry of Natural Resources of the PRC, with the approval number: GS (2016) No. 1611, produced under the supervision of the Ministry of Natural Resources

2. Supply Chain Solutions

供应链解决方案

2.1 Problems of Packaging Industry in China

中国包装行业现存问题

现存问题 Problems

货物: 货物易污染、易损坏。

运输难以监控: 货物信息无法追踪，企业无法对货物在途运输进行有效监管，安全性低。

效率低，成本高: 人工装卸货作业效率低下，装卸成本居高不下。

非标准托盘: 托盘种类繁多，回收困难，传统木托盘易折损，使用率低，造成资源浪费。

Cargoes: Cargoes are easy to be polluted or damaged.

Difficult to monitor: Cargoes information cannot be tracked, and enterprises cannot effectively supervise the transportation state so that cargoes are in low security.

Low efficiency and high labor costs: Low efficiency of handling that leads to high labor costs.

Non-standard pallets: There are many kinds of pallets which are difficult to recycled. Traditional wooden pallets are easy to break, low utilization rate that resulting the waste of resources.

客户需求 The Client Needs

货物: 货物不易破包、污染和潮湿。

货物在途可视化: 可追踪货物信息：包括货到、存、发等信息查询。

提高效率，降低成本: 通过机械化带托运输，加快装卸速度，降低人力成本。

标准托盘: 托盘标准化可以降低托盘损耗，减少采购成本。

Cargoes: Cargoes are not easy to be broken, polluted and damaged.

Visualization of cargoes state: Trackable cargo information: including inquiries of information such as arrival, storage, and dispatch.

Improve efficiency and reduce cost: Speed up handling and reduce labor costs through mechanized transport with pallets.

Standard pallets: Standardization of pallets can reduce pallet losses and reduce purchasing costs.

2.2 Yelopack Shared Packaging Mode

Yelopack乐橘共享包装模式



乐橘不仅能为企业提供共享包装的带托装卸与运输服务，还负责包装的流转、回收、维护、清洗等工作。

Yelopack can not only provide the service of loading and unloading and transportation with shared packaging for enterprises, but also in charge of circular, recycling, maintenance and cleaning of shared packaging.

Yeloflex乐橘管理平台为产业链中各环节企业分别设立专用账户，并提供专业化服务及系统技术支持。各客户均可通过Yeloflex乐橘管理平台发起包装租赁和回收。

Yeloflex platform sets up specified account for each client in the supply chain and provides professional service and technical support. Each client can initiate packaging leasing and returning through Yeloflex platform.



2.3 Our Digital Services

数字化解决方案



平台通过数据库对共享包装进行调配，对共享包装的收、发、存进行智能化管理，并通过包装、仓库及车辆等货物接触点获取数据，对货物运输从监管、标准化、安全预防等角度进行科学管理。

Yeloflex platform allocates the shared packaging through the database, carries out intelligent management on the receive, deliver and storage of the shared packaging, and obtains data from the cargo contact points such as packaging, warehouse and vehicles, so that we can manage the cargo transportation from the perspectives of supervision, standardization and safety prevention scientifically.

NB-IoT Intelligent Terminal ▶

NB-IoT 智能终端

- 有效增加货物信息获取能力
Increase the ability of obtaining cargo information effectively

NB-IoT智能终端采用工业级NB-IoT模块，具有低功耗、低成本、覆盖广等特点，为客户提供分布式远程控制功能，为各类物流载体赋能，有效增加了客户对货物安全及节点信息的获取能力。

The industrial-grade NB-IoT module which used by our NB-IoT intelligent terminal has the characteristics of low power consumption, low cost and wide coverage, and it can provide customers with distributed remote control functions, empower various logistics carriers, and effectively increase customers' management of cargoes security and node information.

我们为客户提供完整的SaaS系统，方便与客户间的数据无缝对接，同时从安全、效率、经济和数据等多方面为客户提供解决方案。

We provide customers with a complete SaaS system to facilitate data connection with our customers, and offer them the solutions about security, efficiency, economy, data and others.

◀ SaaS Services

SaaS服务

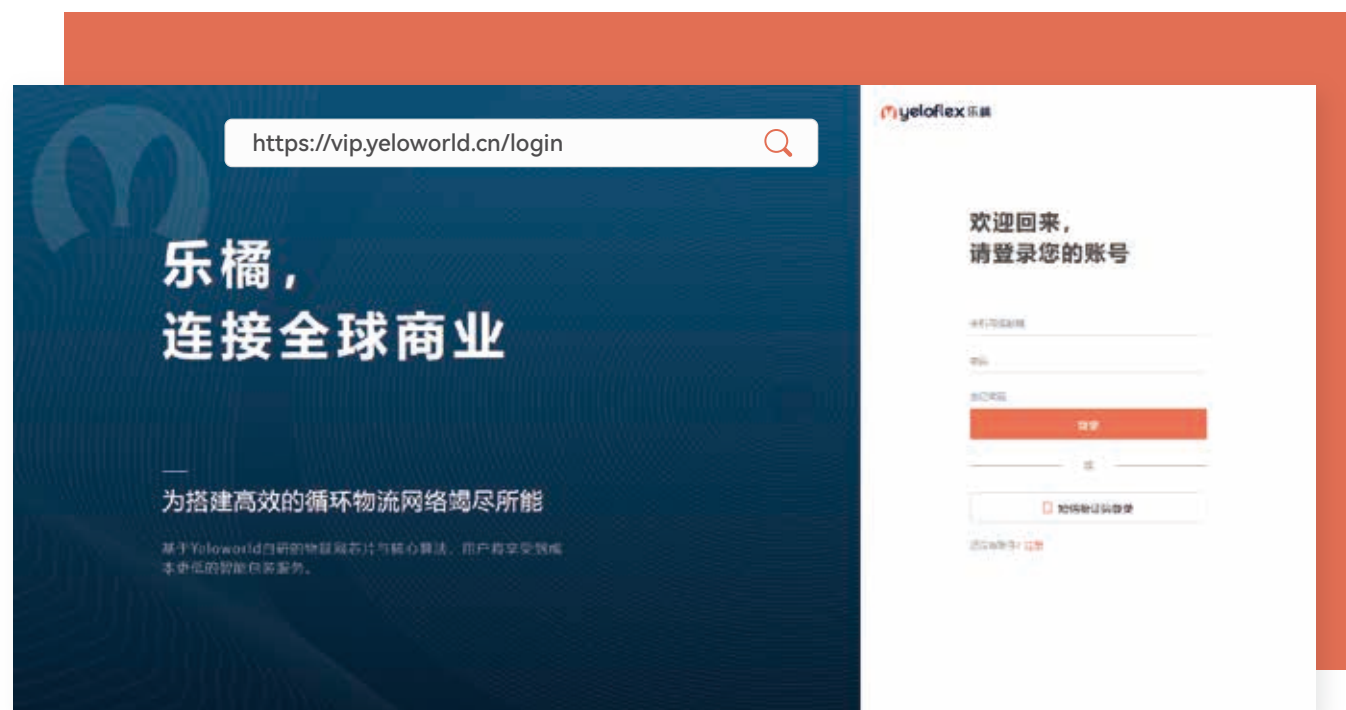
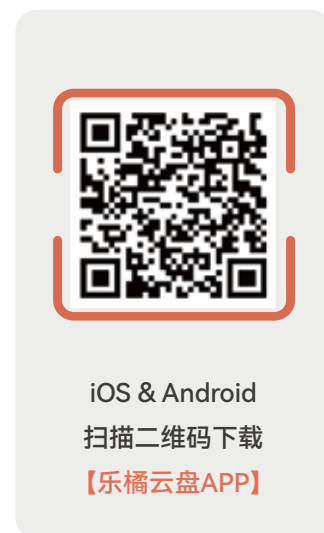
- 建立客户端与信息的无缝链接
Create a connect between customers and information

2.3.1 Yeloflex Platform and Yelopack APP

乐橘管理平台WEB端与APP端

乐橘管理平台分为WEB端和APP端，WEB端登陆网址为<https://vip.yeloworld.cn/login>，APP名为乐橘云盘。在乐橘管理平台注册企业账户，能够管理包装库存、申请包装回收、签收包装、跟踪包装物流状态和联系客服等。

The Yeloflex platform includes WEB terminal and APP terminal. The WEB terminal login URL is <https://vip.yeloworld.cn/login>, and the APP is Yelopack. Registering a corporate account on Yeloflex platform, you can manage packaging inventory, apply for packaging recycling, sign for packaging, track packaging logistics status and contact customer service, etc.



2.3.2 Yelopack Pro Enterprise Membership

乐橘Pro企业会员

乐橘PRO企业会员专享权益:

Yelopack Pro Enterprise Membership Exclusive Rights:

乐橘PRO企业会员可用积分兑换包装使用天数、MRO礼品及更低价格的物流服务。

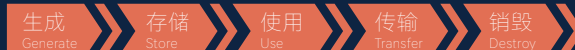
Yelopack Pro enterprise membership can redeem points for packaging usage days, MRO gifts and lower-priced logistics services.



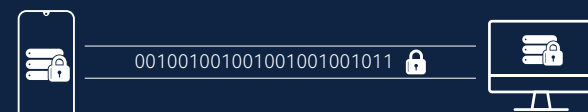
2.3.3 Data Security

数据安全

我们比您更关注您的信息安全。
We concern the security of your information seriously.



在加密通道基础上，叠加敏感数据端到端加密
Overlay end-to-end encryption of sensitive data on top of encrypted channels.



本地数据加密保存
Local data is stored encrypted

1. 数据全生命周期加密处理。
 2. 设置角色权限：不同角色对应不同的权限。一旦用户被分配了适当的角色后，该用户就只拥有此角色的操作权限。
1. Encryption in the whole life cycle of data.
 2. Set role permissions: Different role correspond to different permission. Once a user is assigned an appropriate role, the user only has the operation permissions for that role.



2.4 About Yelopack Pallets

乐橘云盘解决方案

乐橘云盘拥有十余种种类，可满足不同货物使用场景需求。本着对产品性能的不断追求，乐橘持续对托盘进行迭代升级。新版乐橘云盘在防滑指数、排水功能和牢固性等方面都得到了大幅优化，可为客户提供卓越的使用体验。

There are more than ten types of Yelopack pallets which can meet the needs of different usage scenarios. In line with the continuous pursuit of pallets performance, Yelopack keep upgrading the pallets. The new version of Yelopack pallets have been greatly optimized in anti-skid index, drainage function and firmness, which can provide customers with excellent experience.

Yelopack 1311



1300×1100×155mm

Yelopack 1210



1200×1000×155mm

Yelopack 1140



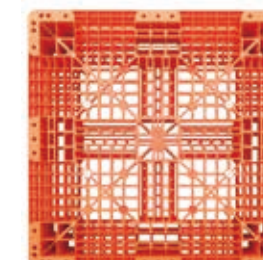
1140×1140×150mm

Yelopack 1000

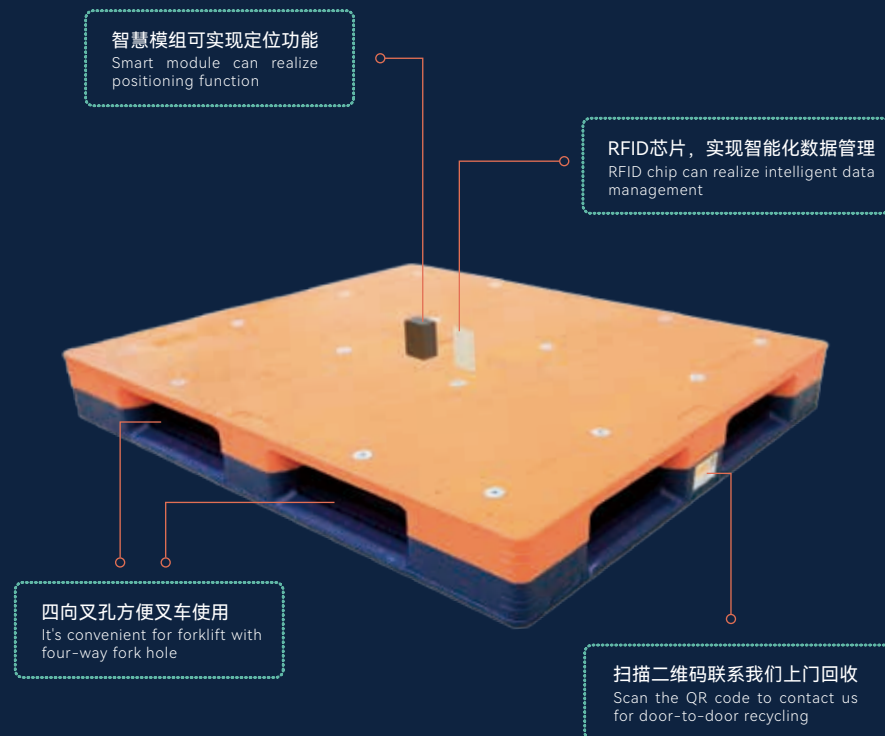


1000×1000×155mm

Yelopack 1080



1080×1080×150mm



乐橘云盘1311

材质: 聚丙烯

尺寸: 1300×1100×155 毫米

颜色: 顶面橙色, 底面蓝色

承重: 静载6吨, 动载2吨

净重: 38±0.5 千克/片

规格: 单面使用, 四向进叉, 田字托盘, 可选配RFID芯片与智慧模组

功能: 可追踪定位、测温、测压, 具备信息采集传输功能

应用场景: 适配立体库, 常用于25千克小包装化工产品的带托运输, 主要有PP、PE、EVA、PS和ABS等 (不包含危化品)

Yelopack1311

Material: PP

Size: 1300×1100×155 mm

Color: Orange for top, blue for bottom

Load-bearing: 6t for static load, 2t for dynamic load

Net Weight: 38±0.5 KG/PCS

Specification: Single-sided used, four-way lift entry, square pallet, optional RFID chip and smart module

Function: Track location, measure temperature and pressure, collect and transfer information

Application scenario: Suitable for racking warehouse, commonly used for palletized transportation of 25kg small package of chemical products, mainly include PP, PE, EVA, PS, ABS, etc. (excluding hazardous chemicals)

乐橘云盘1210

材质: 聚丙烯

尺寸: 1200×1000×155 毫米

颜色: 顶面粉色, 底面蓝色

承重: 静载6吨, 动载2吨

净重: 35±0.5 千克/片

规格: 单面使用, 四向进叉, 田字托盘, 可选配RFID芯片与智慧模组

功能: 可追踪定位、测温、测压, 防滑, 具备信息采集传输功能

应用场景: 适配立体库与集装箱载托, 常用于快消品、新材料、涂料 (25升桶)、卷材以及锂电池等

Yelopack1210

Material: PP

Size: 1200×1000×155 mm

Color: Pink for top, blue for bottom

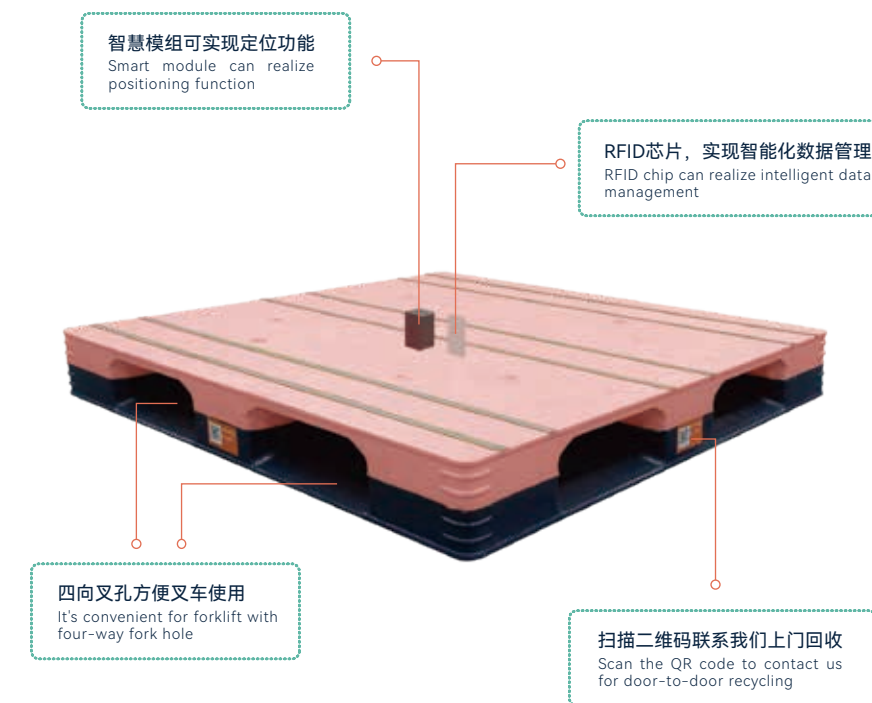
Load-bearing: 6t for static load, 2t for dynamic load

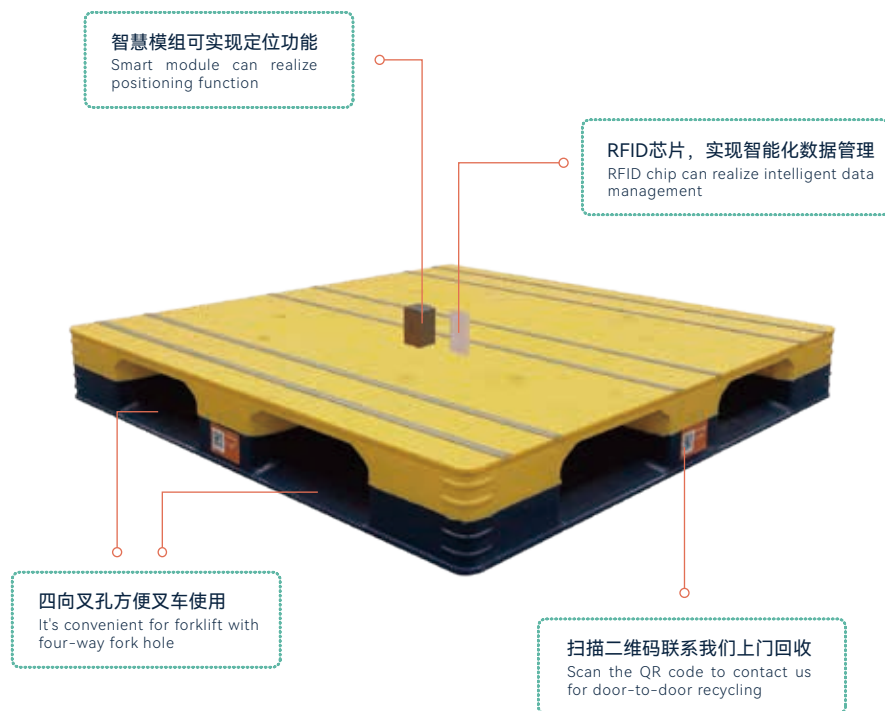
Net Weight: 35±0.5 KG/PCS

Specification: Single-sided used, four-way lift entry, square pallet, optional RFID chip and smart module

Function: Track location, measure temperature and pressure, antiskid, collect and transfer information

Application scenario: Suitable for racking warehouse and container carriers, commonly used in FMCG, new materials, coatings (25L barrels), coils, lithium batteries, etc.





乐橘云盘1140

材质: 聚丙烯

尺寸: 1140×1140×150 毫米

颜色: 顶面黄色, 底面蓝色

承重: 静载6吨, 动载2吨

净重: 32.5±0.5 千克/片

规格: 单面使用, 四向进叉, 田字托盘, 可选配RFID芯片与智慧模组

功能: 可追踪定位、测温、测压, 防滑, 具备信息采集传输功能

应用场景: 适配立体库与集装箱载托, 常用于吨袋、桶装料产品(危化品)、250升桶及其他

Yelopack1140

Material: PP

Size: 1140×1140×150 mm

Color: Yellow for top, blue for bottom

Load-bearing: 6t for static load, 2t for dynamic load

Net Weight: 32.5±0.5 KG/PCS

Specification: Single-sided used, four-way lift entry, square pallet, optional RFID chip and smart module

Function: Track location, measure temperature and pressure, antiskid, collect and transfer information

Application scenario: Suitable for racking warehouse and container carriers, commonly used in ton bags, barreled products (hazardous chemicals), 250L barrels and others

乐橘云盘1000

材质: 聚丙烯

尺寸: 1000×1000×155 毫米

颜色: 顶面浅蓝色, 底面深蓝色

承重: 静载4吨, 动载1.5吨

净重: 17.2±0.5 千克/片

规格: 单面使用, 四向进叉, 田字托盘, 可装配RFID芯片与智慧模组

功能: 可追踪定位、测温、测压, 防滑, 具备信息采集传输功能

应用场景: 适配立体库, 常用于吨袋装化工产品的带托运输, 主要有PVC、PP、PE、EVA、PS和ABS等(不包含危化品)

Yelopack1000

Material: PP

Size: 1000×1000×155 mm

Color: Light blue for top, blue for bottom

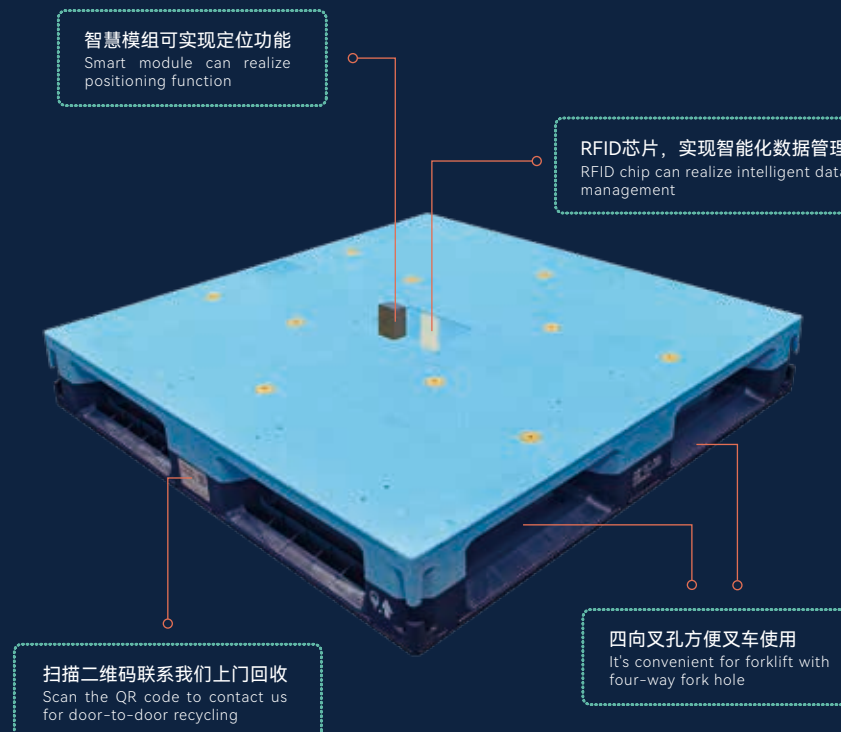
Load-bearing: 4t for static load, 1.5t for dynamic load

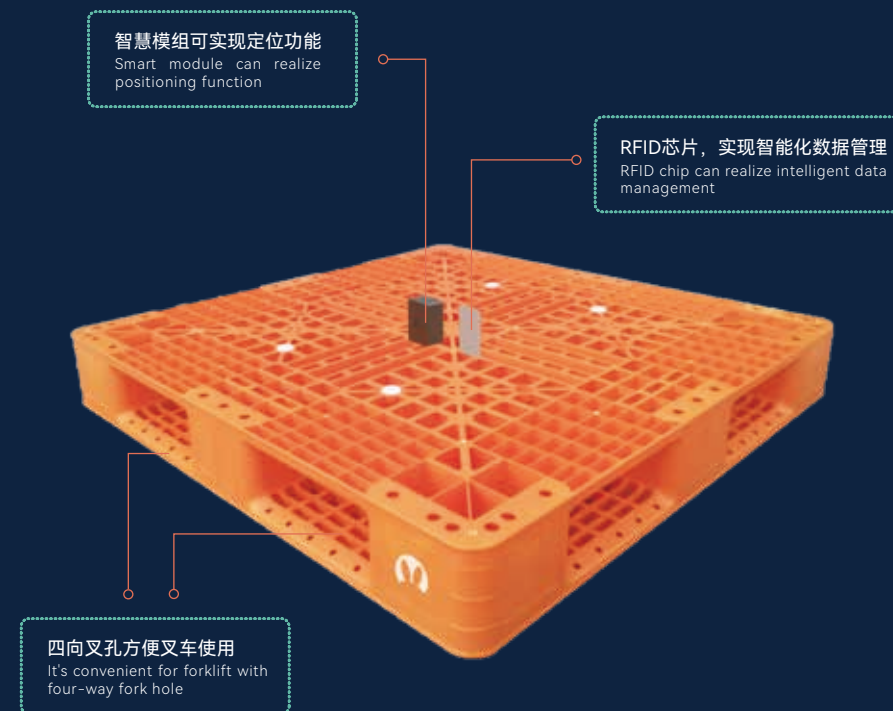
Net Weight: 17.2±0.5 KG/PCS

Specification: Single-sided used, four-way lift entry, square pallet, optional RFID chip and smart module

Function: Track location, measure temperature and pressure, antiskid, collect and transfer information

Application scenario: Suitable for racking warehouse, commonly used for pallet transportation of tons of packaged chemical products, mainly include PVC, PP, PE, EVA, PS, ABS, etc. (excluding hazardous chemicals)





乐橘云盘1080

材质: 聚丙烯

尺寸: 1080×1080×150 毫米

颜色: 橙色

承重: 静载4吨, 动载1.5吨

净重: 12.5±0.5 千克/片

规格: 单面使用, 四向进叉, 网格田字托盘, 可选配RFID芯片

功能: 具备信息采集传输功能

应用场景: 适用于吨袋及其他小包装, 常用于碳黑、轮胎市场等

Yelopack1080

Material: PP

Size: 1080×1080×150 mm

Color: Orange

Load-bearing: 4t for static load, 1.5t for dynamic load

Net Weight: 12.5±0.5 KG/PCS

Specification: Single-sided used, four-way lift entry, grid square pallet, optional RFID chip

Function: Collect and transfer information

Application scenario: Suitable for ton bags and other small packaging, commonly used in carbon black, tire market and other industries

1. 韧性强

Strong toughness

同等条件下, 乐橘云盘是一般托盘抗冲击量的2倍。

Under the same condition, the impact resistance of Yelopack pallet is twice than ordinary one.

2. 耐腐蚀、易清洗, 适用于各种使用场景

Corrosion-resistant, easy to clean, suitable for various usage scenarios

与木质托盘相比, 乐橘云盘更耐用、易清洗, 且可以防止虫害腐蚀, 降低货物污染程度。适用于生鲜冷链低温运输、医疗药物、化学用品等特殊货物的运输。

Compared with wooden pallets, Yelopack pallets are more durable and easier to clean, and prevent pest corrosion and reduce the degree of contamination of cargoes. They are suitable for the transportation of special cargoes such as fresh cold chain in low temperature transportation, medical drugs, chemicals and so on.

3. 使用寿命长

Long service life

同等条件下, 因原材料及工艺的优势, 乐橘云盘静态使用寿命达到5年。

Under the same condition, because the high quality of the raw materials and the well production process, the static service life of Yelopack pallet can reach 5 years.

4. 绿色环保可回收

Environmentally friendly and recyclable

乐橘云盘由可回收塑料制成。

Yelopack pallets are made of recyclable plastic.

预计到 2025 年, 乐橘运营系统里的共享托盘将有 70% 由再生塑料制成, 每年大约减少 50,000 吨的塑料新料用量, 可间接降低二氧化碳排放。

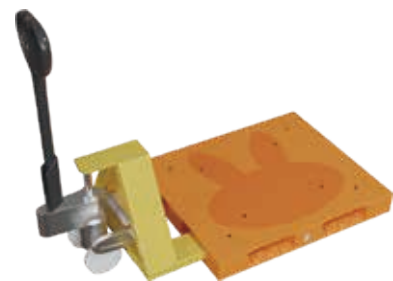
It is estimated that by 2025, 70% of the shared pallets in Yelopack operation system will be made of regenerated plastic, reducing the consumption of original plastic materials by about 50,000 tons each year, which can indirectly reduce carbon dioxide emissions.

乐橘云盘满足上下游各场景需求

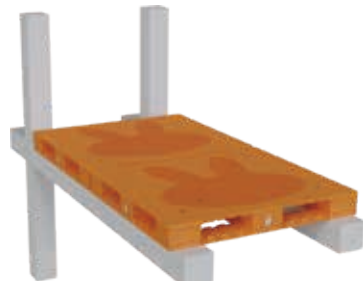
Yelopack Pallets Meet Various Needs of the Upstream and Downstream Scenes



叉车
Forklift



地牛
Pallet Truck



立体库
Racking Warehouse

乐橘云盘使用规范与维护要求手册

Yelopack Specification and Maintenance Requirements



Yelopack为客户提供托盘使用规范与维护要求，详细介绍如何在平地
和立体库正确地使用托盘。

Yelopack offers customers the instructions and maintenance requirements
for pallets, it introduces how to use pallets on the flat ground and racking
warehouse correctly.

木质托盘对比乐橘云盘

Wooden Pallet VS Yelopack Pallet

	木质托盘 Wooden Pallet	乐橘云盘 Yelopack Pallet
使用成本 Usage Cost	单次或短期使用场景下成本更低。 Lower cost of wooden pallet in single or short-term use scenarios.	多次或长期使用环境下，乐橘云盘使用成本更低。 Lower cost of Yelopack pallet in multiple or long-term use scenarios.
环境友好 Environmentally Friendly	木制托盘对木材的需求对森林资源造成了巨大消耗甚至破坏。 The demand for wood from wooden pallet has caused huge consumption and even destruction of forest resources.	乐橘云盘可采用可回收或废旧塑料制成，不会对环境产生过多负担，适宜循环使用。 Yelopack pallet can be made of recyclable or regenerated plastic, which will not cause too much burden to the environment and is suitable for recycling use.
带托运输场景 Palletized Transport Scenario	木托盘边缘锋利，长途运输过程中的颠簸易导致相邻带托货物不断碰擦，货物外包装容易被损坏。 The edge of the wooden pallet is sharp, and the bumps during long-distance transportation can easily cause the adjacent cargoes to be rubbed continuously, and the outer packaging of the cargoes is easily damaged.	乐橘云盘表面有防滑功能，底面焊接处圆润光滑，无明显落差，所有边角圆润处理，可以很好地保护货物。 The surface of Yelopack pallet has anti-skid function, the welding part of the bottom surface is round and smooth, there is no obvious drop, and all the edges and corners are rounded, which can protect the cargoes well.
客户使用场景 Customer Usage Scenarios	木质托盘容易产生木屑等杂质，容易混入原料并投入生产设备，可能会造成设备不必要的损耗。 Wooden pallet may produce impurities such as sawdust, which are easily mixed into raw materials and put into production equipment, which may cause unnecessary loss of production equipment.	乐橘云盘由塑料制成，表面平整无杂质，无飞边无毛刺，无明显气泡裂缝，适配自动化生产线。 Yelopack pallet is made of plastic, with a smooth surface and no impurities, no flash, no burr, no obvious bubble cracks, suitable for automatic production lines.

2.5 About Yelopack Containers

乐橘云箱解决方案

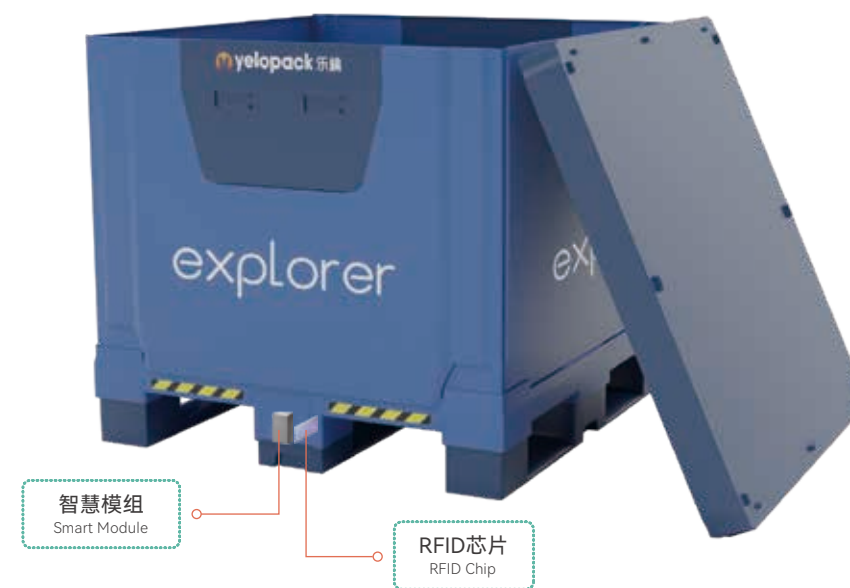
为满足客户存储液体及固体的需要，乐橘还提供共享周转箱解决方案，在降低总成本的同时，最大程度保护自然环境。

In order to satisfy clients' needs for storing liquids and solids, we also provides Yelopack containers shared solution to reduce the total cost of clients while maximizing the protection of the natural environment.



乐橘云箱-Explorer

Explorer-plastic shared container



外部尺寸：1219×1016×1133 毫米

内部尺寸：1142×935×943 毫米

载重标准：静载7.5吨，动载3吨（2层）

自重：90千克

单箱承重：1400千克

折叠高度：341毫米

满箱9.6米货车：26个

空箱13.5米货车：192个

满箱20尺集装箱：20个

适用温度范围：-20°C-40°C

适用场景：适配标准集装箱，常用于重油及其他行业

External dimensions: 1219×1016×1133 mm

Internal dimensions: 1142×935×943 mm

Load standard: 7.5t for static load, 3t for dynamic load(2 layers)

Net weight: 90KG

Load-bearing capacity of a single container: 1400KG

Folding height: 341mm

Full container 9.6m truck: 26

Empty 13.5m truck: 192

Full 20-foot container: 20

Operating temperature range: -20°C-40°C

Application scenario: Suitable for standard containers, commonly used in mazout and other industries

乐橘云箱-Tank

Tank-metal shared container

外部尺寸: 1500×1152×1103 毫米

内部尺寸: 1470×1096×1020.6 毫米

折叠高度: 202+(187n) 毫米

叉槽高度: 65毫米

容 积: 1.64立方米

净 重: 130±2千克

最大总重: 1640千克

最大载重: 1500千克

允许堆码层数(仓储): 4层

允许堆码层数(运输): 2层

适用场景: 适配标准集装箱, 常用于橡胶及其他行业

External size: 1500×1152×1103 mm

Internal size: 1470×1096×1020.6 mm

Folding height: 202+(187n) mm

Slot height: 65mm

Volume: 1.64m³

Net weight: 130±2 KG

Maximum total weight: 1640KG

Maximum load: 1500KG

Stacking layers allowed (warehouse): 4 layers

Stacking layers allowed (transport): 2 layers

Application scenario: Suitable for standard containers, commonly used in rubber and other industries



乐橘云箱的价值

Value of Yelopack Container

1.仓储 Warehousing

可折叠的乐橘云箱, 可大大降低企业的存储空间。

The foldable Yelopack containers can greatly reduce the storage space of enterprises.

2.管理 Management

乐橘不仅提供一站式整体包装解决方案, 还能提供智能仓储和物流服务。您可以及时获取货物信息, 了解货物流向, 让管理变得轻松。

Yeloworld not only provides one-stop overall packaging solutions, but also provides intelligent warehousing and logistics services. You can obtain cargo information in time and grasp the flow of cargo, so that make the management easy.

3.运输 Transportation

乐橘云箱可以堆叠放置, 重箱最高堆叠4层, 空箱折叠最高可堆叠10层, 从而节约重箱(发货)和空箱(返回)的运输成本。

Containers can be stacked, the heavy containers can be stacked up to 4 layers, and the empty containers can be stacked up to 10 layers, thus saving the transportation cost of heavy containers (delivery) and empty containers (return).

4.环保 Environmental protection

- 无需纸衬, 不会对环境产生粉尘污染并减少资源使用。
- 依托于乐橘遍布全国的服务网络, 可有效减少包装的长途返空运输, 从而减少碳排放。
- No paper lining, no dust pollution to the environment and save resource.
- Relying on Yeloworld nationwide service network, it can effectively reduce the long-distance return transportation of empty packaging, thereby reducing carbon emissions.

5.成本 Cost

- 提高20%运载能力。
- 降低人工成本, 一个人可以组装周转箱。
- 降低产品损失和废料回收处理成本。
- 防水不易发霉, 降低清洁成本。
- Increase 20% in carrying capacity.
- Reduce labor cost, one person can assemble the container.
- Reduce product loss and waste recycling costs.
- Waterproof and not easy to mold that reducing cleaning costs.

2.6 About Yelolife

乐橘新生

乐橘新生是乐橘科技基于废旧包装循环再生需求创立的全新板块，致力于乐橘旗下再生包装的研发、设计和生产，以及上下游客户废旧塑料包装的回收与再利用。

Yelolife is a new business sector of Yeloworld in response to the demand of recycling waste packaging, which is dedicated to the research, design and production of Yeloworld's regenerated packaging, and the recycling and reusing of waste plastic packaging from upstream and downstream customers.

乐橘新生塑料循环体系 ▶

Yelolife Plastic Recycling System



乐橘新生超级循环工厂
Yelolife Super Circular Factory



2.6.1 Yelolife Regenerated Packaging Solution

乐橘新生再生包装解决方案

依托乐橘新生塑料循环体系，我们将废弃塑料包装加工成再生塑料包装，减少原生塑料的使用。当客户使用完毕后，还可通过乐橘进行回购。

Relying on Yelolife plastic recycling system, we process waste plastic packaging into regenerated plastic packaging to reduce the use of original plastics. When the customer finished using regenerated plastic packaging, it can also be repurchased by Yelolife.



乐橘新生再生托盘

Yelolife Regenerated Pallet

乐橘新生再生托盘外观为黑色网格田字，静载4t，动载1.5t，配备RFID芯片可实现智能化数据管理。经测试，乐橘新生再生托盘在承载能力、防滑系数和硬度等方面，具备原生塑料托盘同等性能。

此外，乐橘新生再生托盘可接受尺寸定制。

The appearance of Yelolife regenerated pallet is black, grid and square, with a static load of 4t and a dynamic load of 1.5t. It is equipped with an RFID chip to realize intelligent data management. After testing, Yelolife regenerated pallets have the same performance as original plastic pallets in terms of bearing capacity, anti-skid coefficient and hardness. In addition, Yelolife regenerated pallets can be customized in size.

尺寸: 1300×1100×150 毫米 尺寸: 1200×1000×128 毫米

净重: 13.0±0.5 千克/片 净重: 7.8±0.5 千克/片

尺寸: 1140 ×1140×128 毫米 尺寸: 1100×1100×128 毫米

净重: 9.8±0.5 千克/片 净重: 7.8±0.5 千克/片

Size: 1300×1100×150 mm Size: 1200×1000×128 mm

Net Weight: 13.0±0.5 KG/PCS Net Weight: 7.8±0.5 KG/PCS

Size: 1140 ×1140×128 mm Size: 1100×1100×128 mm

Net Weight: 9.8±0.5 KG/PCS Net Weight: 7.8±0.5 KG/PCS

2.6.2 About Yelolife Super Circular Factory

乐橘新生超级循环工厂

乐橘新生超级循环工厂系乐橘新生基于废旧塑料回收和再生利用循环方向布局的工厂。乐橘新生采用“互联网+回收+生产”新型运营模式，将回收至超级循环工厂的废旧包装进行清洗再生生成包装新原料，形成废旧塑料回收再生的产业链闭环。

Yelolife Super Circular Factory is a factory based on the recycling and regenerating of waste plastics. Yelolife adopts the new operation mode of "Internet + Recycling + Production", and cleans and regenerates the waste packaging recycled to the factory into new raw materials for packaging, forming a closed-loop industrial chain of waste plastic recycling and regenerating.

乐橘制定完善的塑料包装分类、回收、处理及再生管理标准与规范，管理塑料回收再生的溯源数据，核算塑料包装回收再生利用过程中的回收率数据、碳减排指标、经济指标等，然后以乐橘碳积分模式分发给产业链合作伙伴，与合作伙伴一同构建再生塑料循环体系。

Yelolife formulates plastic packaging classification, recycling, treatment and regeneration management standards and specifications, manages the traceability data of plastic recycling and regenerating, calculates the recovery rate data, carbon emission reduction indicators, economic indicators, etc. in the process of plastic packaging recycling, and then distributes to industry chain partners in the mode of Yelolife carbon credits, and builds a recycling system of regenerated plastics together with partners.



2.7 About Yelotour

乐橘云途

乐橘云途（原名为奇亚物流）是上海乐橘科技有限公司旗下专注于云计算和大数据的智能货运调度平台，成立于2003年。作为业内领先的物流科技服务平台，我们致力于物联网和互联网技术的融合应用，实现人、车、货的实时感知和上下游企业间的高效协同，以信息技术促进物流产业变革。乐橘云途总部位于南京，秉持“协同运输”理念打造的信息系统，支撑着物流平台的规模化运营，累计服务上千家企业和车队，覆盖车辆上万台，年运量超千万吨。

Yelotour as an intelligent freight dispatching platform focused on cloud computing and big data of Shanghai Yellowworld Co., Ltd., was established in 2003 and was originally known as Qiya Logistics. Yelotour is a leading logistics technology service company in the industry. We are committed to the integration and application of the Internet of things and Internet technology, achieving real-time perception of people, vehicles, cargoes and collaboration efficiency between upstream and downstream enterprises, and promoting the transformation of the logistics industry with information technology. Yelotour is headquartered in Nanjing, upholding the concept of "Transportation in Synergy" to build an information system, which supports the large-scale operation of the logistics platform. We have served thousands of enterprises and covered more than 10,000 vehicles, with an annual traffic volume of more than ten million tons.

通过乐橘云途APP，司机们可接受承运商指派的运单、查看货物信息、联系装卸货物、上报运单状态，并进行对账及运费结算。

Within Yelotour APP, the driver can accept the carrier's assigned waybill, view the cargo information, contact to load and unload cargo, update the status of the waybill, and make account checking and settlement of the freight.

2.8 About Yelospace

乐橘云仓

乐橘云仓为乐橘旗下依托于云计算等现代化信息技术手段，采用科学管理法进行货物管理的新型仓库运营模式。我们不仅提供托盘收发、清洗、维护服务，还可依据不同客户提供定制化服务。针对无仓库、有建仓需求的企业，乐橘云仓可就近建仓，配合乐橘共享包装及乐橘云途物流网络为其提供定制化方案、仓储管理、物流配送、系统支持和增值服务等一站式全供应链综合服务。针对有仓库、有代管需求的企业，乐橘云仓也可为其提供智能仓储升级改造服务。

Yelospace is a new warehouse operation mode under Yellowworld that relies on cloud computing and other modern information technology means and adopts scientific management method for cargo management. We not only provide pallet receiving and dispatching, cleaning and maintenance services, but also provide customized services according to different clients. For enterprises without warehouses and with demand for warehouse construction, Yelospace can build warehouses nearby and provide one-stop comprehensive supply chain services such as customized solutions, warehouse management, logistics and distribution, system support and value-added services with Yelopack shared packaging and Yelotour logistics network. For enterprises with warehouses and escrow needs, Yelospace can also provide intelligent warehousing upgrade and transformation services.

3. Our Value

乐橘共享包装价值

乐橘的核心是流通与共享。流通共享的出发点是低成本、高效率、绿色环保；共享的基础是标准相对统一，规模化、网络化运作。乐橘依靠强大的网络和资源，为合作伙伴提供全面的服务和解决方案。

The core of Yeloworld is circulation and sharing. The starting point of circulation and sharing is low cost, high efficiency and environmental protection. The basis of sharing is relatively unified standards, large-scale and networks operation. Yeloworld relies on powerful network and resources to provide comprehensive services and solutions for partners.

3.1 Supply Chain with Palletized Transportation

供应链全线带托运输

传统“散装运输+人工装卸”模式装卸效率低下，多次人工搬运与重复码垛，人工成本较大，还会增加货物破损率。采用供应链上下游全线带托运输可有效提升装卸效率，将货损率降到最低，降低供应链综合成本。

The traditional "bulk transportation + manual handling" mode has low efficiency, multiple manual handling and repeated stacking will result in high labor costs and increase the damage rate of cargoes. The use of palletized transportation across the upstream and downstream of the supply chain can effectively improve the efficiency of handling, minimize the rate of cargo damage, and reduce the overall cost of the supply chain.

“散装运输+人工装卸”模式

The mode of "bulk transportation + manual handling"

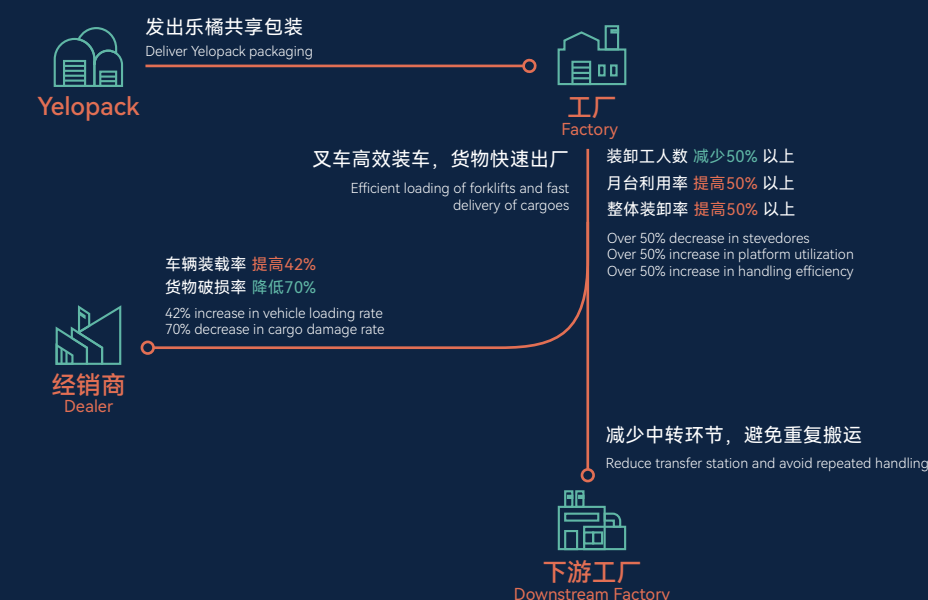
- 人工成本高
High labor costs
- 货物破损高
High breakage of cargoes
- 装卸效率低
Low handling efficiency
- 供应效率低
Inefficient supply chain



“带托运输+叉车装卸”模式

The mode of "Yelopack palletized transportation + forklift handling"

- 货物破损低
Low breakage of cargoes
- 供应链综合成本低
Inefficient supply chain costs
- 装卸效率高
High handling efficiency



3.2 Improve Efficiency of Palletized Handling

提升带托装卸效率

乐橘的共享模式，上下游企业及中转库等均享有托盘使用权，故可以完全激发全产业链的带托运输潜能，大幅提升作业效率，降低运营成本。

The upstream and downstream enterprises and transit stations have the right to use pallets in Yelopack shared pallet mode. So it can fully stimulate the transportation potential of the whole industry chain, greatly improve operation efficiency and reduce operating costs.



散装运输+人工装卸

Bulk Transportation + Manual Handling

该模式上游企业平均装卸车时效约63分钟/车，车辆等待约5个小时。下游企业同样采用散包运输，且由于劳动力资源不稳定，下游企业装卸车时效约87分钟/车，车辆等待约40分钟。

The average handling time is about 63 mins/truck, and the waiting time for each vehicle is about 5 hours. Downstream enterprises also adopt bulk transportation, and due to labor shortage, the efficiency is reduced to about 87 mins/truck, and the waiting time for each vehicle is about 40 mins.

带托运输+叉车装卸

Yelopack Palletized Transportation + Forklift Handling

该模式上游企业平均装车时间约19分钟/车，卸车时间约10分钟/车，车辆等待约45分钟。相较“散装运输+人工装卸”模式，单车可提升效能4/5。由于装卸车效率提高，配合企业的车辆出入厂管理系统，可以实现厂区的流水作业。

In this mode, the average loading time of upstream enterprises is about 19 mins/truck, the unloading time is about 10 mins/truck, and the vehicle waiting time is about 45 minutes. Compared with the "bulk transportation + manual handling" mode, the efficiency can be improved by 4/5. Due to the improved efficiency and the vehicle management system, the factory can be streamlined.

3.3 Raise the Rate of Pallet Utilization

提高托盘使用率

散装运输+人工装卸

Bulk Transportation + Manual Handling

托盘为企业所有，并处于场内使用状态，以月为单位，在散装运输模式中，托盘有效使用时间为其在翻转机和传送带的工作时间。按全月30天计算，托盘每个工作日使用8小时，此时托盘使用率约为20%。

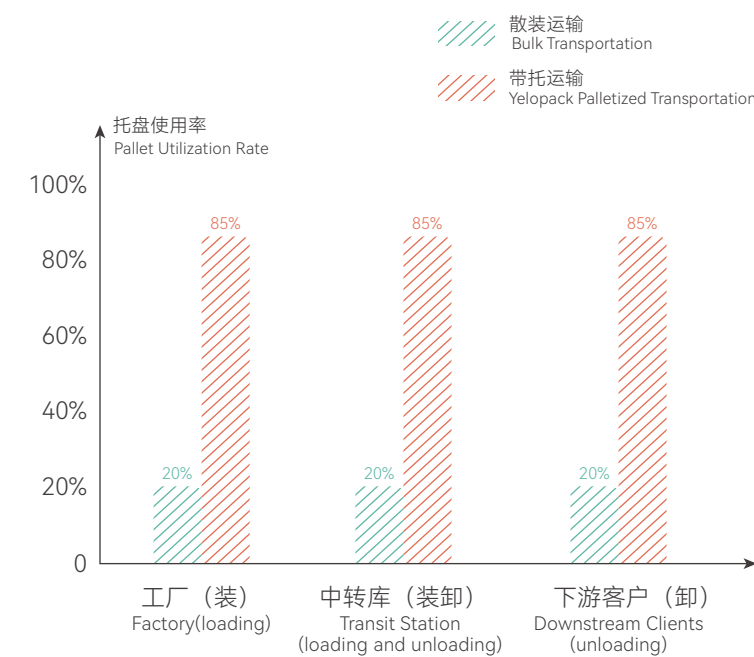
The pallet is owned by the enterprise and used in the factory. The unit is monthly, in the bulk transportation mode, the effective usage time of pallet is the working time of the turning machine and the conveyor belt. Calculated on the basis of 30 days in a month, the pallet is used for 8 hours per working day, and the pallet utilization rate is about 20%.

带托运输+叉车装卸

Yelopack Palletized Transportation + Forklift Handling

托盘为乐橘所有，企业享有托盘在储存及运输过程中的使用权。按照全流程10天周期，在与散装运输完成同样的运输任务，带托运输仅需18天即可，托盘使用效率提升至约85%。

The enterprise has the right to use the pallet during storage and transportation. According to the 10-day cycle of the whole process, in the same transportation task as the bulk transportation, it only takes 18 days for the palletized transportation, and the pallet utilization rate is increased to about 85%.



3.4 Reduce Handling Cost

降低装卸成本



散装运输+人工装卸

Bulk Transportation + Manual Handling

该模式下主要成本为人工成本，随着人口老龄化趋势愈发明显，劳动力紧张，散装运输的装卸成本将会进一步上涨。

In this mode, the main cost is labor cost. With the increasing trend of population aging and labor shortage, the handling cost of bulk transportation will be increased.

带托运输+叉车装卸

Yelopack Palletized Transportation + Forklift Handling

该模式下主要成本为叉车成本，包括叉车采购及能耗费用。但带托运输的人力成本相较于散装运输则可大幅减少，在双叉车同时作业的情况下，装卸成本和装卸时间都能达到最优化状态。

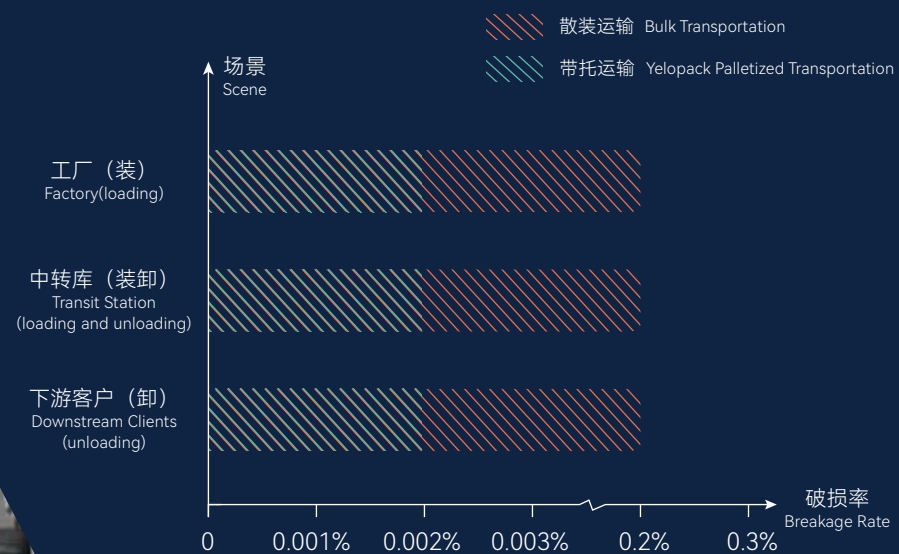
In this mode, the main cost is forklift cost, including forklift purchase and energy consumption. However, compared with bulk transportation, the labor cost of palletized transportation can be greatly reduced. When two forklifts work at the same time, the cost and time of handling can be optimized.

3.5 Reduce the Rate of Cargo Damage

降低货物破损率

当产品以散包运输时，车内货物容易破损，且货物卸车后，对存储环境要求较高。采用带托运输，货物外覆冷缩膜，整体包装效果好，且可户外存放。

Cargoes are easily damaged in bulk transportation, and they need a better storage environment after unloading. Cargoes are covered with cold shrink film in Yelopack palletized transportation, they can be stored outdoors with overall packaging.



3.6 Reduce Purchasing Cost

降低托盘购买成本

购买托盘

Pallet Purchasing

企业购买托盘主要用于仓储、厂内流转和建立托盘池。仓储和厂内流转是工厂正常生产所需，托盘池是企业安全生产的保障，为此企业需要采购大量托盘。

The pallets purchased by enterprises are mainly used for warehousing, inside factory circular and establishment of pallet pools. Warehousing and inside factory circular are required for the normal production, and the pallet pool is the guarantee for the safe production of the enterprise. For this reason, the enterprise needs to purchase a large number of pallets.

托盘租赁

Pallet Leasing

当企业进行托盘租赁后，只需租赁场内流转和仓储所需的托盘，乐橘共享托盘提供即需即租服务，可使托盘厂内使用量降低三分之一。

Enterprise only needs to lease the pallets for storage and inside factory circular. Yelopack shared pallet provides on-demand rental services which can reduce the usage of pallets in the factory by one-third.

3.7 Save More Space

减少库存占用

乐橘共享托盘采用“即需即租”的模式，不会占用企业宝贵的仓储空间。

以每月使用20,000片乐橘云盘1311为例，每月可释放库位面积为：

$20,000 \text{ 片 (托盘总数)} \div 20 \text{ (堆叠层数)} \times 50\% \text{ (空置率)} \times 1.43 \text{ (托盘面积)} = 715 \text{ 平方米}$

The "on-demand rental" mode of Yelopack shared pallet will not occupy the precious storage space of the enterprise.

Taking the monthly use of 20,000 pieces of Yelopack 1311 as an example, the monthly releasable storage space area is:

$20,000 \text{ pieces (total number of pallets)} \div 20 \text{ (number of stacked layers)} \times 50\% \text{ (vacancy rate)} \times 1.43 \text{ (pallet area)} = 715 \text{ m}^2$

3.8 Low Carbon and Environmental Protection

低碳环保



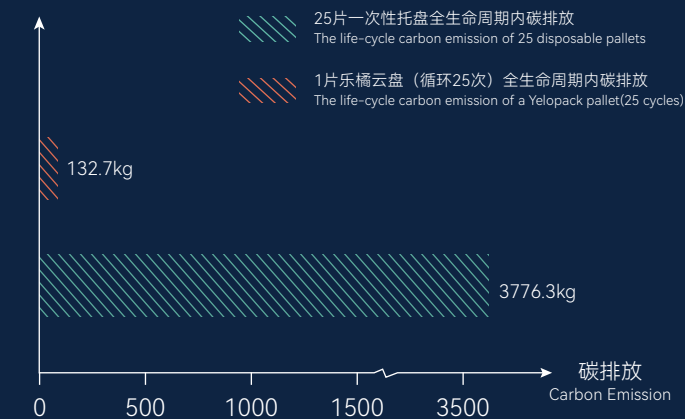
乐橘云盘由优质的塑料颗粒制成，可循环使用，使用寿命长。每流转一片乐橘云盘均可有效减少碳排放，极大程度减少了化石能源的消耗和环境污染。

Yelopack pallets are made of high-quality plastic particles, which can be recycled and have a long service life. Every piece of Yelopack pallet in circulation can effectively reduces carbon emissions, and greatly reduces the consumption of fossil energy and environmental pollution.



中国质量认证中心基于国际参考生命周期数据系统手册ILCD测算，在界定范围内，一片乐橘云盘循环25次相对25片一次性托盘可减少3643.6kg碳排放量。

Based on the International Reference Life Cycle Data System (ILCD) manual, CQC calculates that within the defined scope, compared to 25 pieces of wooden pallets, a piece of Yelopack pallet can reduce carbon emission by 3643.6 kg by recycling 25 times.



乐橘新生回收再生体系可充分利用废弃的一次性塑料包装，一定程度上减少了原生塑料的生产及废旧塑料填埋、焚烧造成的环境污染。

Yelolife recycling system can completely recycle waste disposable plastic packaging, reducing to a certain extent the production of original plastic and environmental pollution caused by landfills and incineration of waste plastic.



回收
Recycle

乐橘的包装产品添加了一定比例的再生塑料，从原材料上做到了100%可回收和重复使用。

Yelopack packaging are added a certain percentage of recycled plastics which are 100% recyclable and reusable in the raw materials.



环保
Environmental protection

与原油制造塑料相比，以废旧塑料为原料制造包装产品将减少约45%的污水排放和60%~70%的能耗。

Compared with making plastic from crude oil, using waste plastic as raw material to make packaging products will reduce sewage discharge by about 45% and energy consumption by 60% to 70%.



减排
Emission reduction

废旧塑料回收利用的温室气体减排约为0.36tCO₂e。

The greenhouse gas emission reduction of waste plastic recycling is approximately 0.36tCO₂e.

