



高效疏解，精准应对 AOCC 原料处理挑战的解决之道

13 November 2024

Putrajaya, Malaysia

1st ASEAN Pulp & Paper Summit

Peter Ma

Vice President

Kadant Fiberline (China) Co., Ltd.

KADANT

1. 凱登公司



KĀDANT

凯登是推动可持续工业加工的技术和工程系统的全球供应商。



1.2

可持续工业加工的领导者



FLOW CONTROL

Custom-engineered products and technologies that impact the flow of fluids

流体控制



INDUSTRIAL PROCESSING

Products used to process wood and virgin and recycled fibers

工业加工



MATERIAL HANDLING

Products used to handle bulk and discrete materials for secondary processing

材料处理

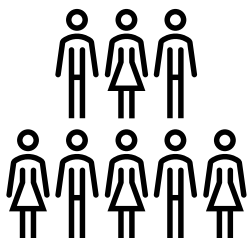
1.3

凯登速览



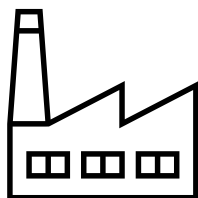
\$958

百万美元财政收入 (2023)



3,500

员工总数



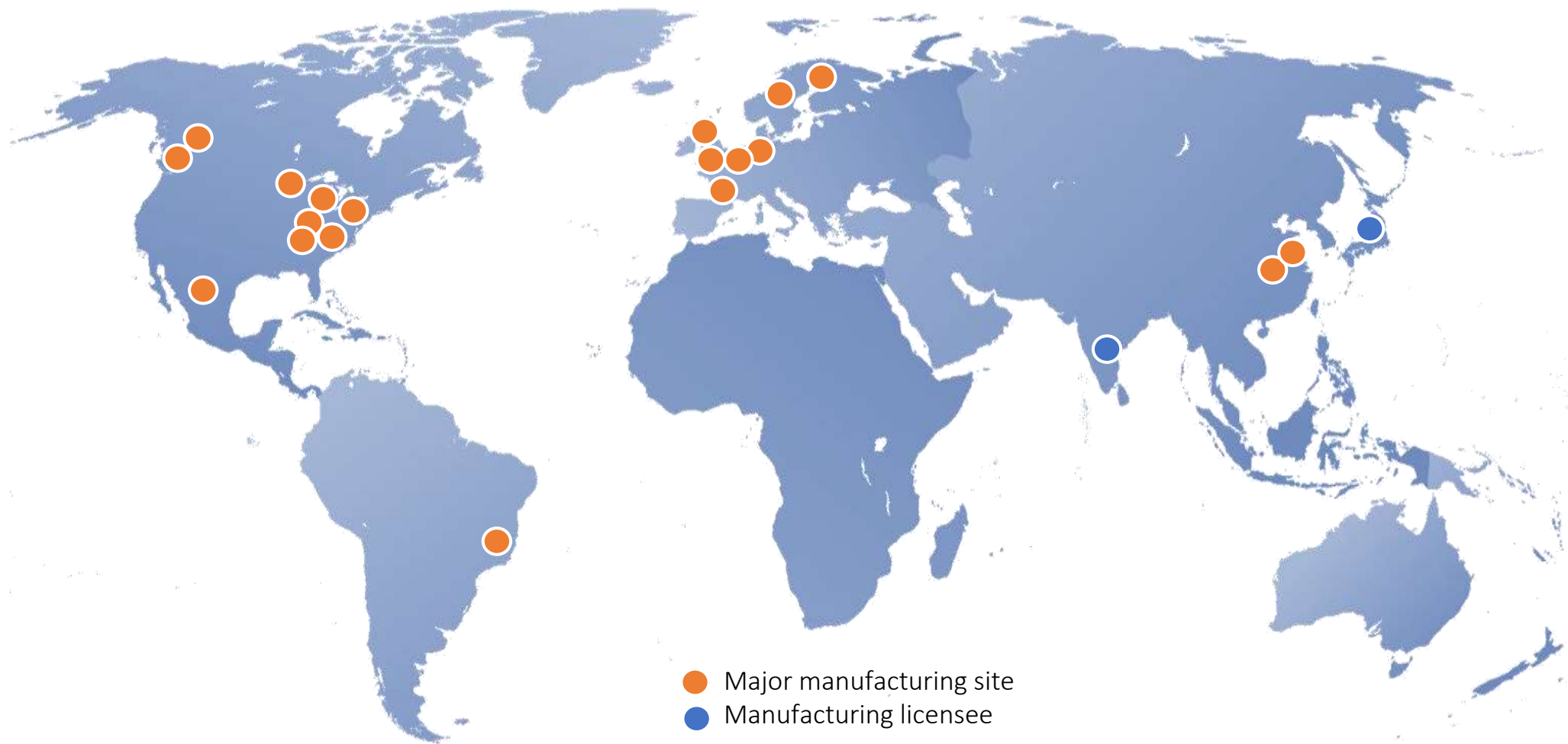
22

生产基地

NYSE: KAI


1.4

全球生产基地及客户服务网络



1.5 广泛的客户基础

INTERNATIONAL  PAPER

 理文造纸有限公司

 WestRock

 DU PONT


ArcelorMittal

 BAYER


Ingredion™


storaenso

 玖龍


CMPC


PCA
PACKAGING CORPORATION OF AMERICA

 Kellogg's®

 WILD
WE CREATE
Great Taste

 P&G

 mondi

 Cargill™

 PHILLIPS
66


ADM


OJI PAPER

 HEXCEL


SCA

 Pfizer

 3M


SUZANO
PAPEL E CELULOSE

 KADANT

2. 凯登制浆中国



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

KĀDANT

凯登制浆设备(中国)有限公司

- 凯登公司全资子公司
- 全球知名废纸浆处理设备主要供应商
- 致力于将尖端的技术应用到浆料制备和流送系统
- 设备和服务遍及北美/南美/欧洲/亚洲各地的制浆造纸企业

2.2

凯登：浆料制备领域领跑者

- 投身制浆造纸技术研发130多年；
- 世界浆料制备领域领跑者；
- 制浆造纸技术创新无地域。
- 市场占有率 69% 以上

* Company estimate in market served.

凯登制浆揭秘

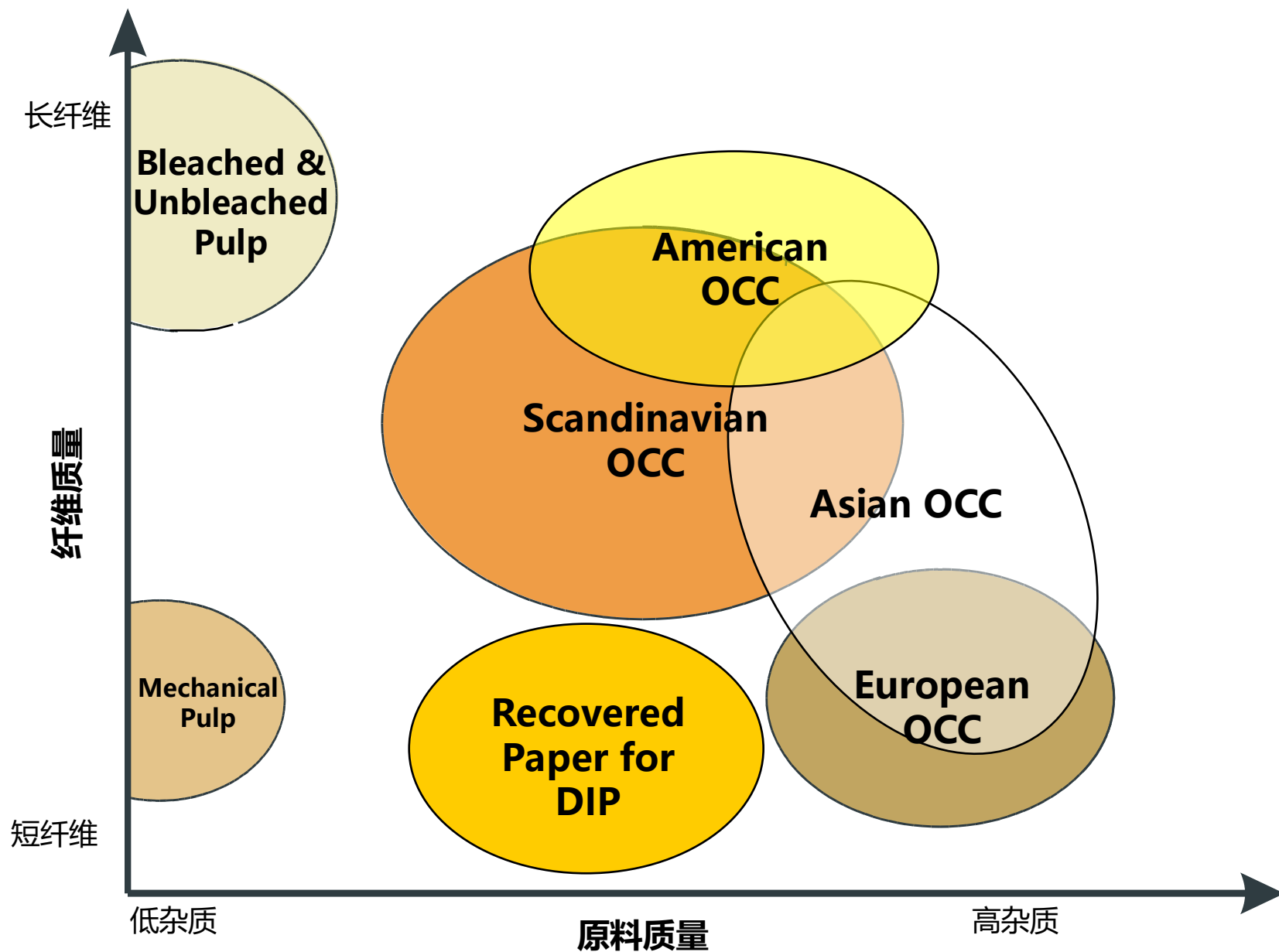
A OCC原料处理挑战解决之道

3. 原料分析



3.1

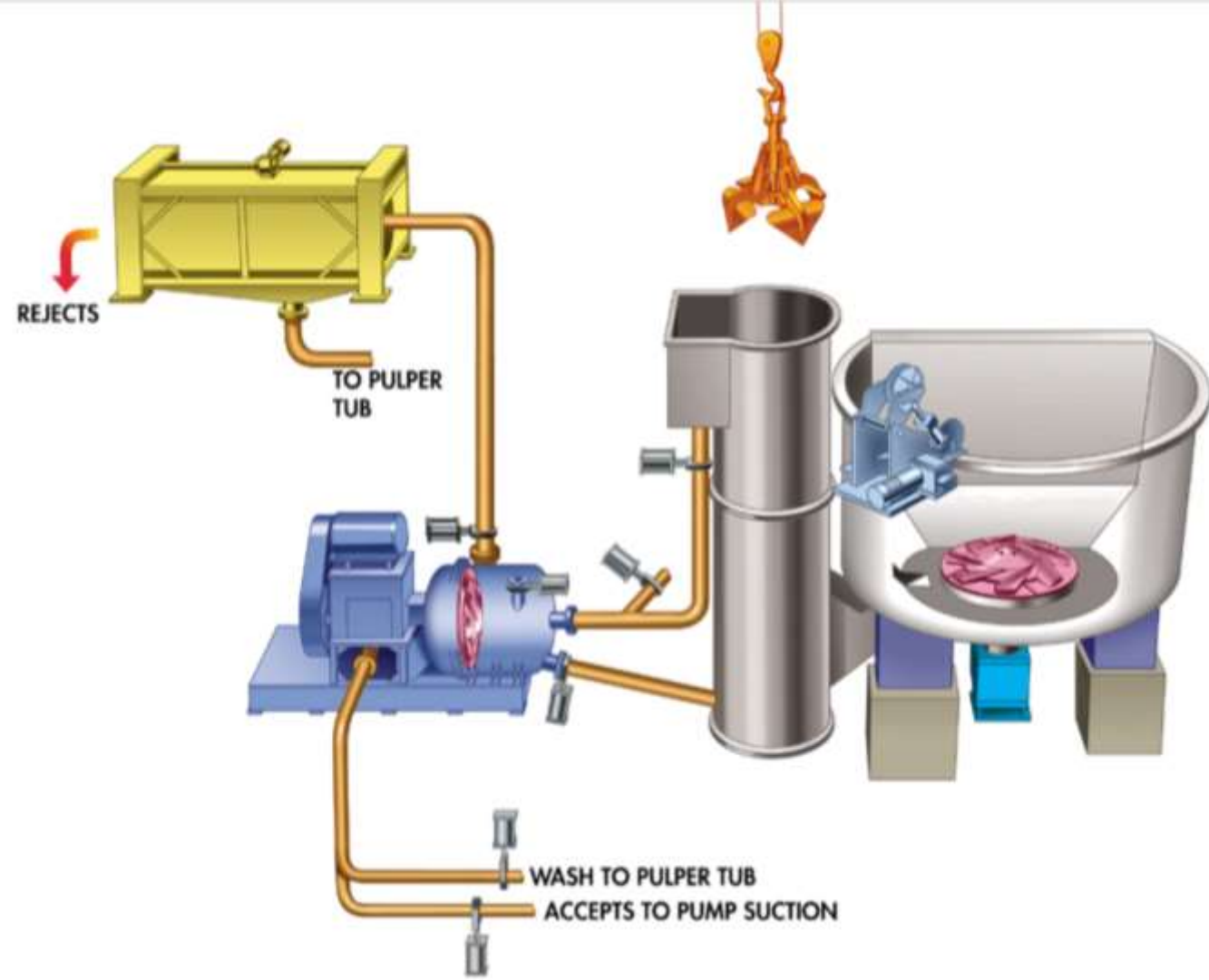
不同地区AOCC成分：纤维质量 VS 杂质



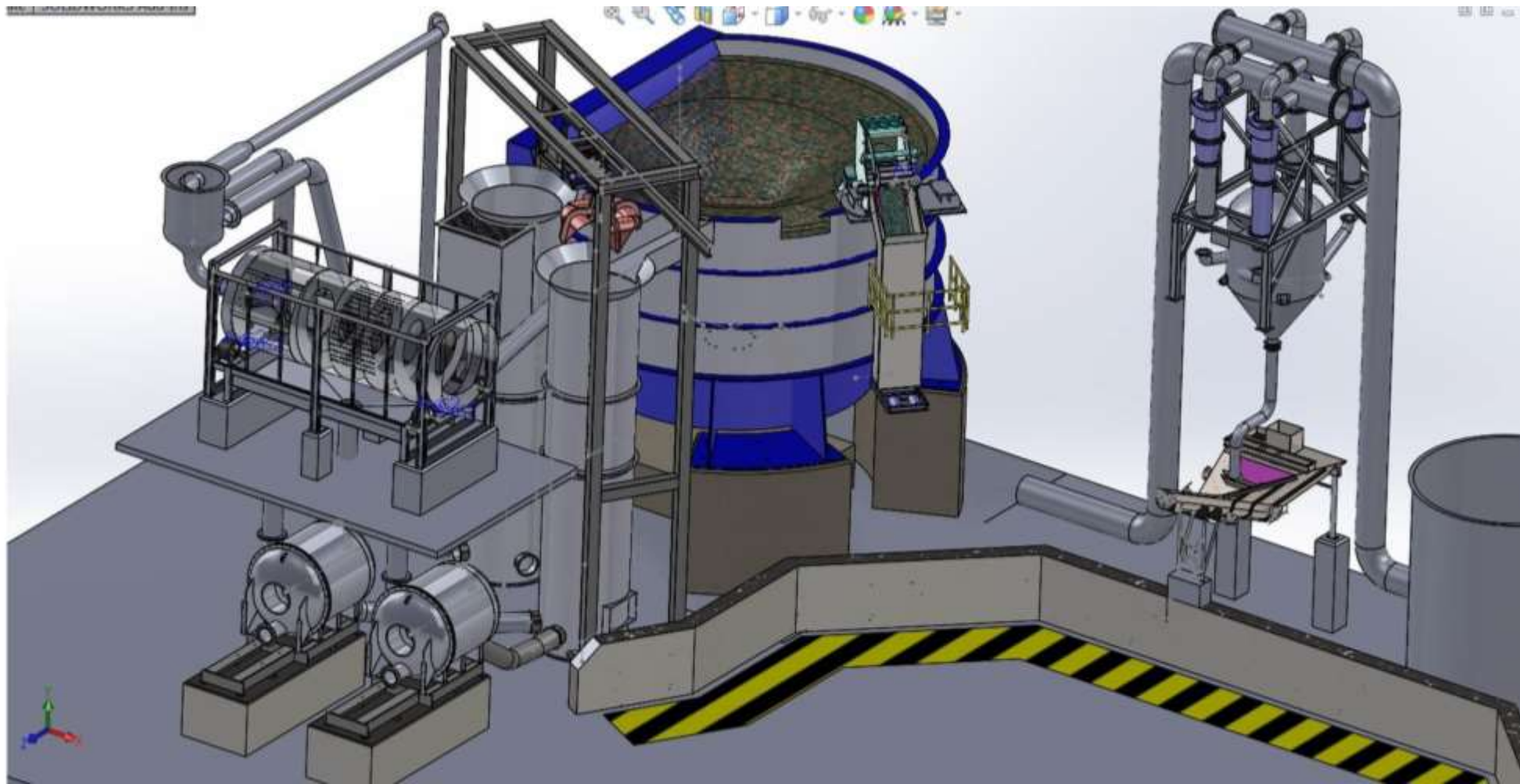
3.2 AOCC 特点

- AOCC 包含非常好的 **长纤维**，但是 **难以碎解**。一些AOCC含有小比例的 **湿强纸**，一些特殊的含有 **蜡纸**。
- AOCC中含有的 **蜡** 非常 **难除去**，影响产品质量，影响纸机成型网和毛布的使用寿命，并且容易造成烘缸断纸。
- 因为：美国的箱板纸包含非常多的 **原生纤维**，含蜡的纸箱是用于水果和食品行业的包装。

3.3 DR-Hydrapulper w/ Hydrapurge Ix



3.4 自动抓斗提升系统



4. 凯登制浆智能工厂



4.1

美国凯登绿色制浆装备与集成供应链全球制造中心项目

美国凯登全球最大智能制造中心
凯登制浆智能工厂



凯登制浆 智能工厂

- **全球顶尖** 制浆造纸设备供应商
- 凯登制浆设备（中国）有限公司 投资建设
- 占地 120 亩，生产车间、办公楼等配套设施 3.6 万平方米



4.2 迈向智能制造的数字化车间

智能制造数字化车间

客户现场观摩

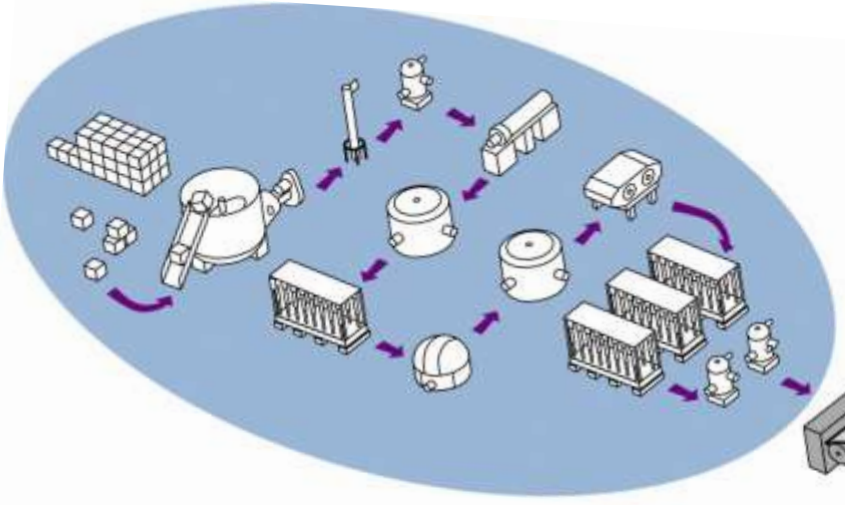


5. 重点设备介绍

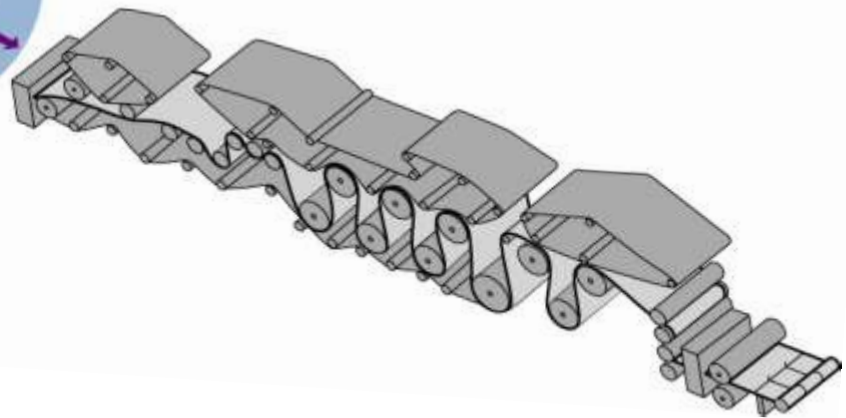
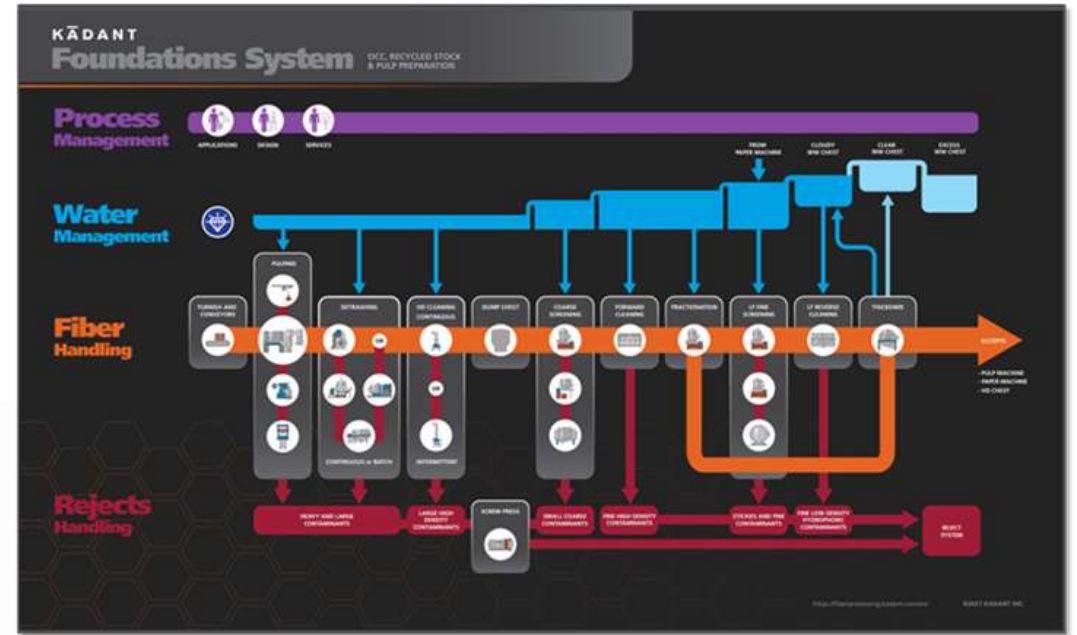


5.1 工艺流程

工艺流程图

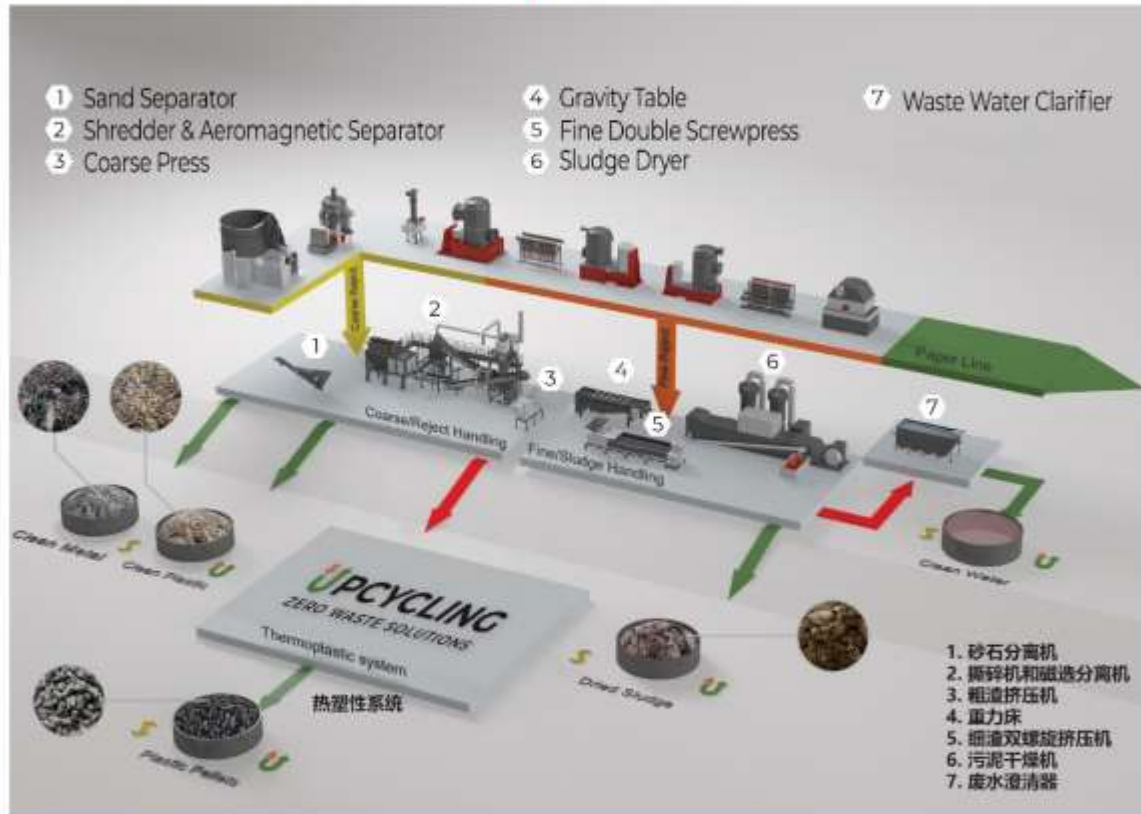


废纸 -->>> 干净浆料



KADANT

零废弃解决方案 Zero Waste Solutions



Local Support
本地支持



Repair & Upgrade
维修升级



OEM Spare Parts
OEM 备件



Service Agreement
服务协议



Pilot Unit Rental
中试设备租赁



Training
培训



Process Optimization
流程优化



Lab & On-Site Testing
实验室和现场测试

从废弃到价值

重新定义回收

FOUNDATIONS SYSTEM OVERVIEW

The Foundations fiber product line provides comprehensive and sustainable fiber processing technology to solve your application-specific challenges. Shown here is just one example of a currently installed Kadant continuous OCC system. All of our solutions are tailored to your specific project goals. To meet those goals, we offer a wide breadth of technology, with a depth of options, and the agility and knowledge to deliver and support you all along the line. All of our technologies are backed by deep and innovative industry expertise and thousands of proven product installations.

FOUNDATIONS™

UPCYCLING

5.3 Foundations™



KĀDANT Foundations

“More than just products and technologies, the Foundations Line is rooted in the deep industry expertise, forward-thinking consultative value, and pride-of-purpose passion of our people.”

KĀDANT

5.4 供货范围

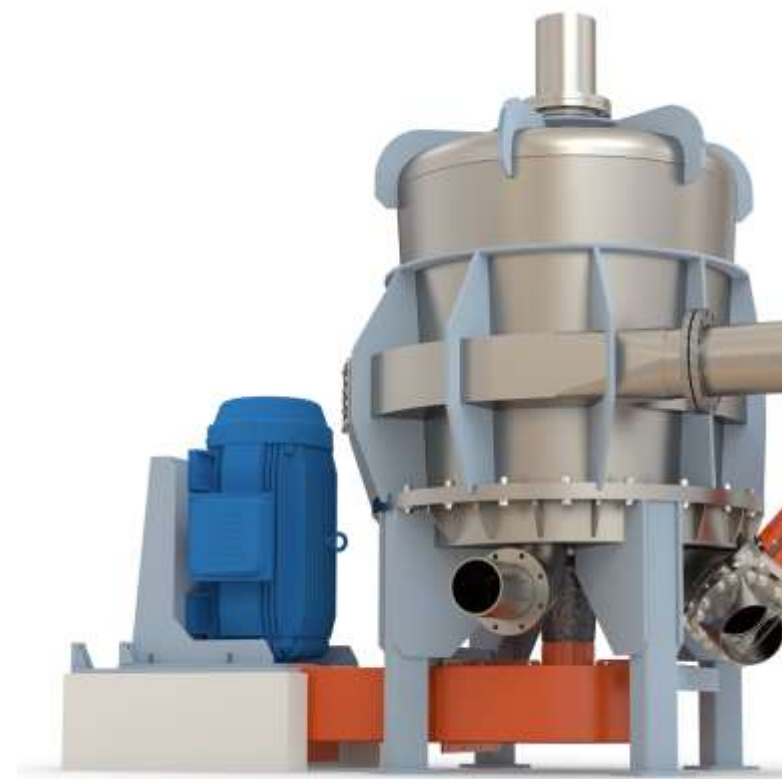
设备

- 碎解/筛选/净化/浓缩/脱墨
- 杂质清除系统
- 磨浆机和分散系统
- 尾渣处理系统
- 回收系统

服务

- 现场服务、检查和状态跟踪
- 翻新和改
- 设备升级现代化
- 维修和服务合同
- 过程控制解决方案

- 备件升级和配件



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5.5

三大优势

市场占有率

69% ↑

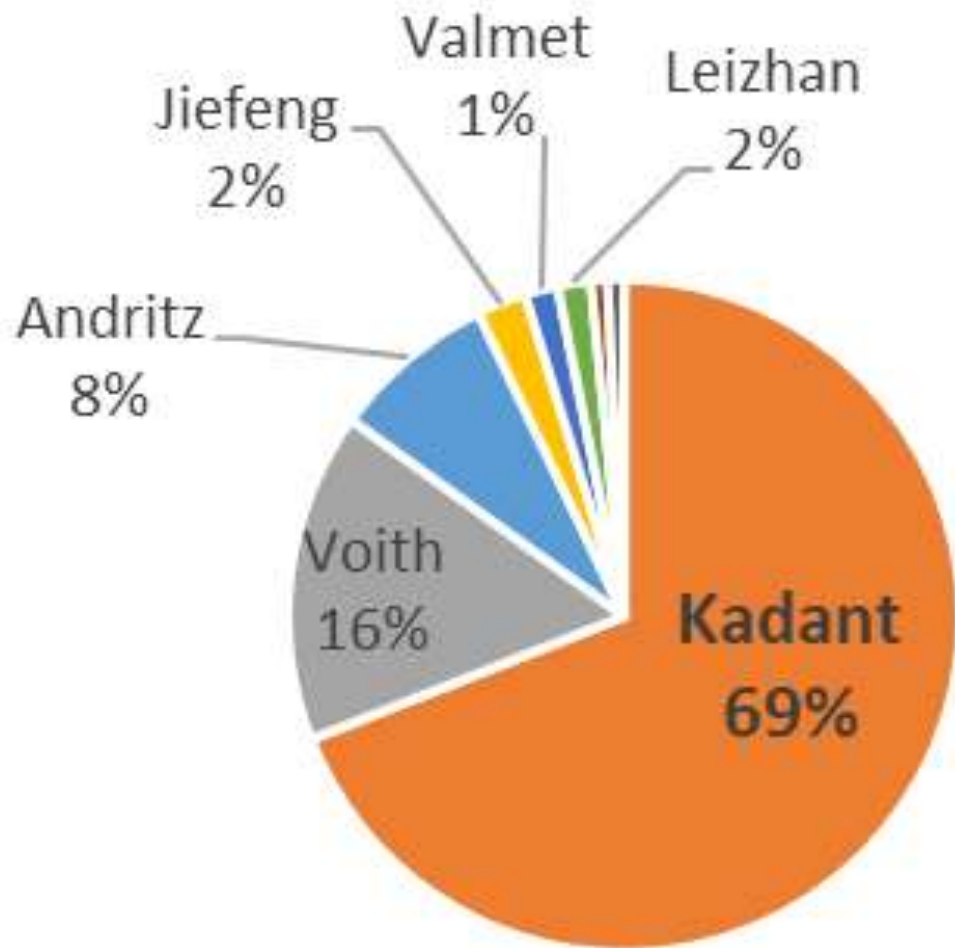
纤维流失

1% ↓

节能

20% ↑

5.6 市场占有率 – OCC 制浆设备



市场占有率

69% ↑

5.7

东南亚主要包装纸厂产能

Indonesia	6,304,672
⊕ Asia Pulp & Paper Group (APP) Sinar Mas	1,940,000
⊕ SCG Packaging Public Company Limited	1,380,000
⊕ SPS Corporate	745,000
⊕ PT Pabrik Kertas Indonesia (Pakerin)	338,400
⊕ Korindo Group	217,000
⊕ Others-Indonesia	1,684,272
Vietnam	5,726,350
⊕ Nine Dragons Paper (Holdings) Ltd.	1,050,000
⊕ Cheng Loong Corporation	700,000
⊕ Lee & Man Paper Manufacturing Ltd.	550,000
⊕ SCG Packaging Public Company Limited	500,000
⊕ Thuan An Paper Co., Ltd.	430,000
⊕ Others-Vietnam	2,496,350
Malaysia	4,092,800
⊕ Nine Dragons Paper (Holdings) Ltd.	900,000
⊕ Lee & Man Paper Manufacturing Ltd.	1,300,000
⊕ Oji Holdings Corporation	778,800
⊕ Muda Holdings Berhad	364,000
⊕ Pascorp Paper Industries Berhad	300,000
⊕ Others-Malaysia	450,000

tons / year

2024

KFC 供货

- APP 800 T/D AOCC pulping loop System
- Nine Dragons 1500T/D PM2 OCC Pulping loop System
- Lee&Man 1200T/D PM19 OCC System
- Thuan An 900T/D OCC pulping loop System
- Lee&Man 900T/D PM23 Pulping and AFS System
- Lee&Man 1000T/D PM25 Pulping and AFS System
- Lee&Man 900T/D PM26 Pulping and AFS System
- Lee&Man 1000T/D PM27 Pulping and AFS System
- Lee&Man 2*600 T/D Stock Preparation for recycled fiber
- Nine Dragons 1200 T/D Stock Preparation for recycled fiber

5.8

东南亚主要包装纸厂产能

Thailand	4,014,700
+ SCG Packaging Public Company Limited	1,392,700
+ Hiang Seng Fibre Container (HSFC) (Panjapol Fibre Container Group)	777,500
+ United Paper Public Co., Ltd.	270,000
+ Double A (1991) Plc. Ltd.	250,000
+ Panjapol Paper Industry Co. Ltd. and	240,000
+ Others-Thailand	1,084,500
Laos	1,000,000
+ Shandong Sun Holdings Group	1,000,000
Philippines	639,500
+ SCG Packaging Public Company Limited	450,000
+ Trans-National Paper Corporation	53,500
+ Keng Hua Paper Products Co., Inc. (Globe	50,000
+ Container Corp. of the Philippines	48,000
+ Bataan 2020, Inc.	18,000
+ Others-Philippines	20,000

tons / year

2024

KFC 供货

- Shanying 400 thousand Stock Preparation for recycled fiber production line

- Sun Paper 1500T/D PM1 OCC System
- Sun Paper 1500T/D PM2 OCC System
- Sun Paper 1200T/D AOCC for recycled fiber

6. 实际案例介绍



6.1

部分实际案例



江门桥裕



玉田顺发



KADANT

6.2 实际案例 – 联盛 PM10

- 联盛 OCC PM10
- 开机 Aug. 2020
- 产量 2000 TPD
- Width 8660 mm
- Location Fujian, China



6.2 实际案例 – 博汇 PM5/PM6

- Bohui OCC PM5/PM6
- 开机 2019/2019
- 产量 2150/2200 TPD
- Width 8750/9600mm
- Location Shandong, China



6.2 实际案例- 太阳 PM1/PM2

- SunPaper OCC PM1/PM2
- 开机 2020/2021
- 产量 1500/1500 TPD
- Width 6800/6800mm
- Location Laos



6.2 实际案例 – 华中山鹰 PM23

- Shanying Huazhong OCC PM23
- 开机 2022
- 产量 400,000 TPY
- Width 7800 mm
- Location Hubei, China



8.2 实际案例 – 广东山鹰 PM52

- Shanying Guangdong OCC PM52
- 开机 2022
- 产量 1400 TPD
- **Width** 8660 mm
- **Location** Guangdong, China

