



Kadant – the Expert on AOCC Handling

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Vice President
Kadant Fiberline (China) Co., Ltd.

KĀDANT

1. Who is KADANT



The background of the slide is a photograph of a large industrial facility. It features a complex network of white and blue pipes, metal walkways, and structural beams. In the upper left, a person is visible on an orange scissor lift. The lighting is bright, typical of an industrial environment.

1.1 About Kadant

Kadant is a global supplier of technologies and engineered systems that drive Sustainable Industrial Processing®

1.2

A Global Leader in Sustainable Industrial Processing



FLOW CONTROL

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



INDUSTRIAL PROCESSING

Products used to process wood and virgin and recycled fibers



MATERIAL HANDLING

Products used to handle bulk and discrete materials for secondary processing

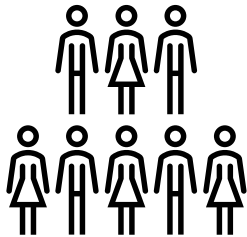
1.3

Kadant Quick Facts



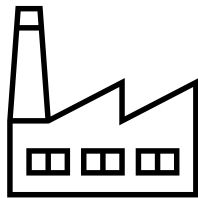
\$958

million in revenue (2023)



3,500

employees worldwide



22

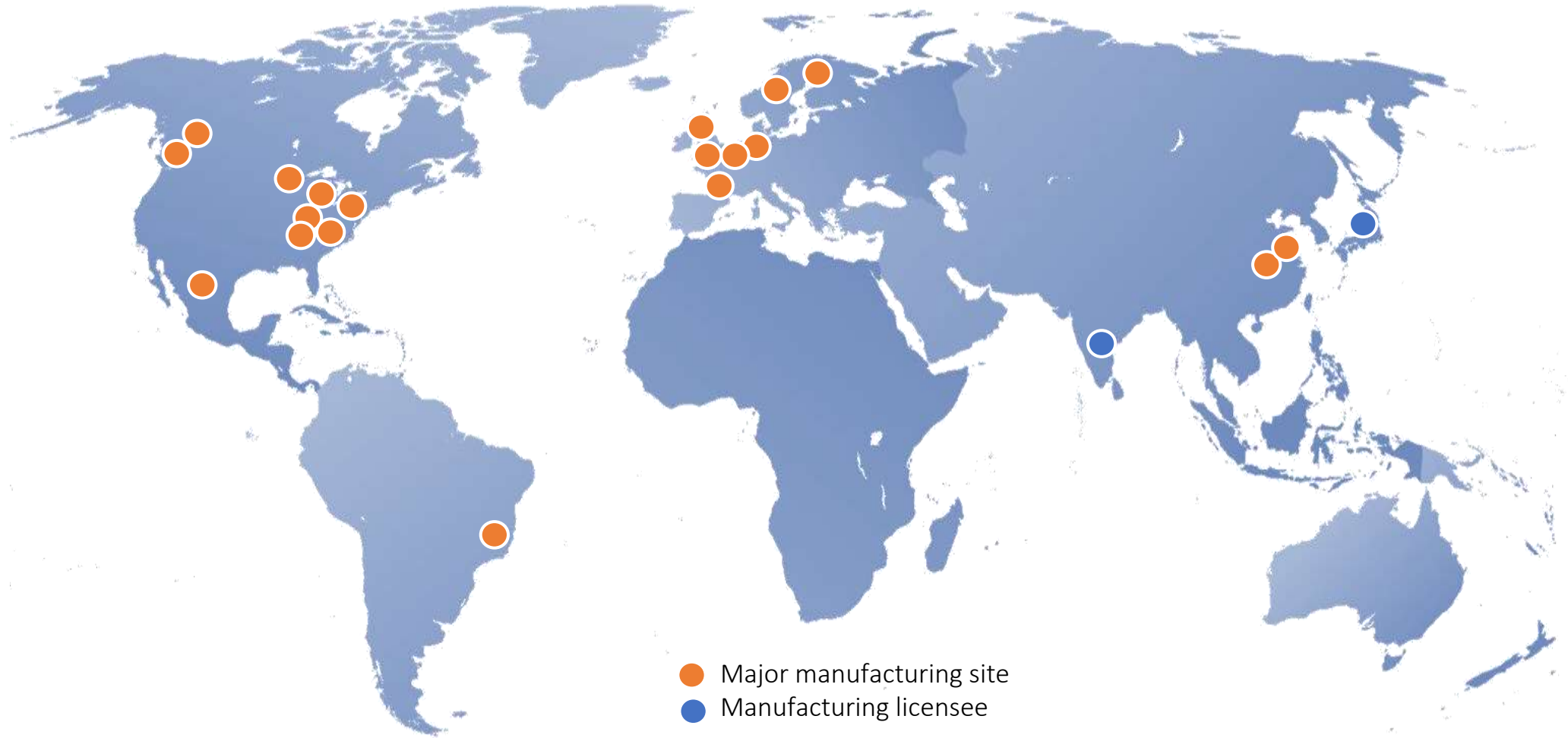
manufacturing sites

NYSE: KAI

1.4

Global Platform Serving Customers Worldwide

Locations in 20 countries



1.5 Diverse Customer Base

INTERNATIONAL  PAPER

 理文造纸有限公司

 WestRock

 DU PONT


ArcelorMittal

 BAYER


Ingredion™

 PCA
PACKAGING CORPORATION OF AMERICA

 Kellogg's®

 P&G


storaenso

 玖龍


CMPC

 WILD
WE CREATE
Great Taste

 mondi

 Cargill™

 PHILLIPS
66

 ADM



OJI PAPER

 HEXCEL


SCA

 Pfizer

 3M


SUZANO
PAPEL E CELULOSE

KADANT

2. Who is KFC



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

KĀDANT

Kadant Fiberline (China) Co. Ltd., a subsidiary of Kadant Inc. is a leading fiber processing and recycling equipment supplier that designs, manufactures, and services equipment used in virgin and recycled paper stock preparation and paper machine approach-flow applications.

2.2

Leading fiber processing and recycling equipment supplier

- Number 1 in most markets served
- Strong market positions
- Large installed base
- Market Share 69% ↑

* Company estimate in market served.

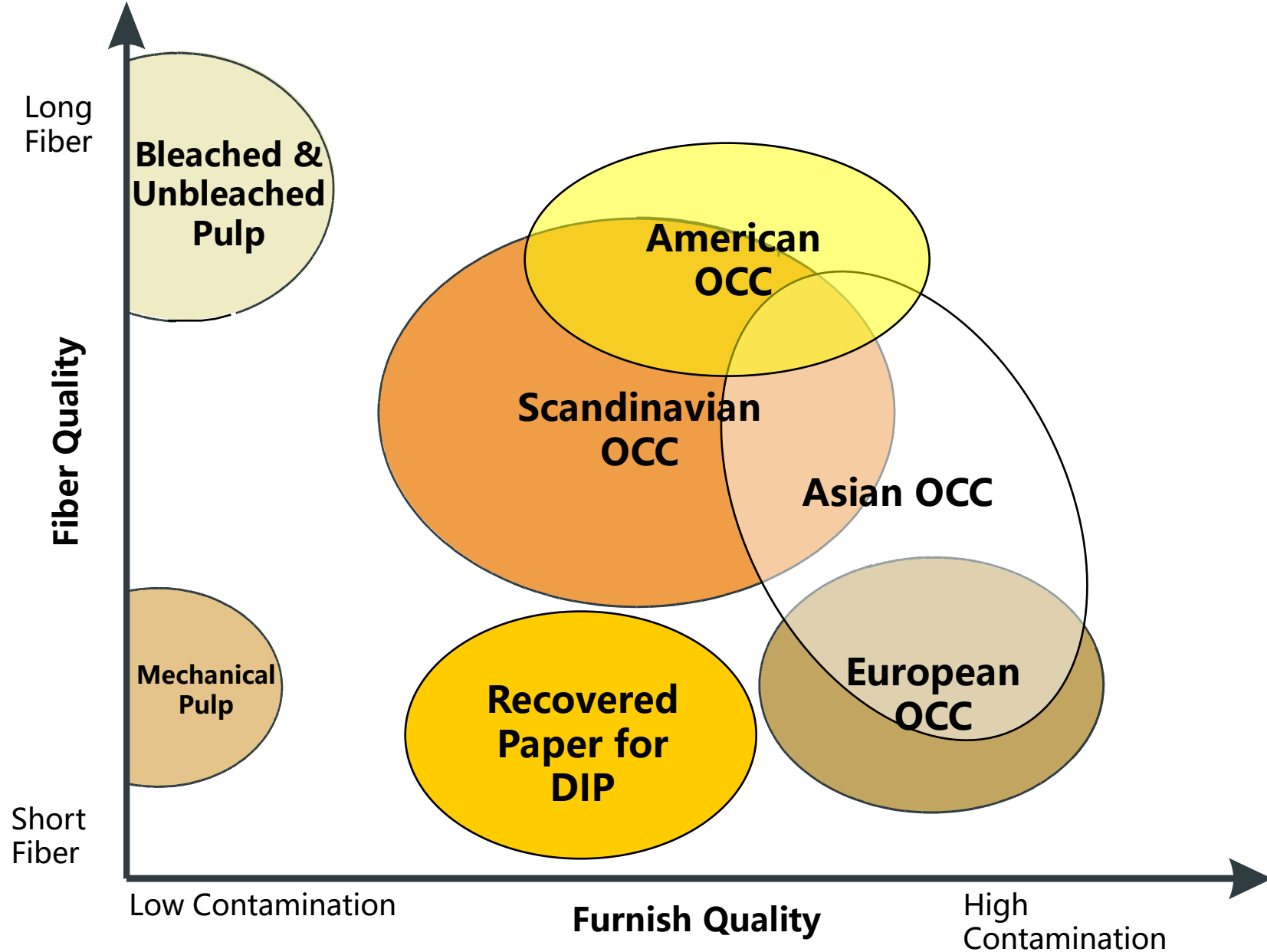
Why can Kadant do Better on AOCC Handling?

3. Knowing the Furnish



3.1

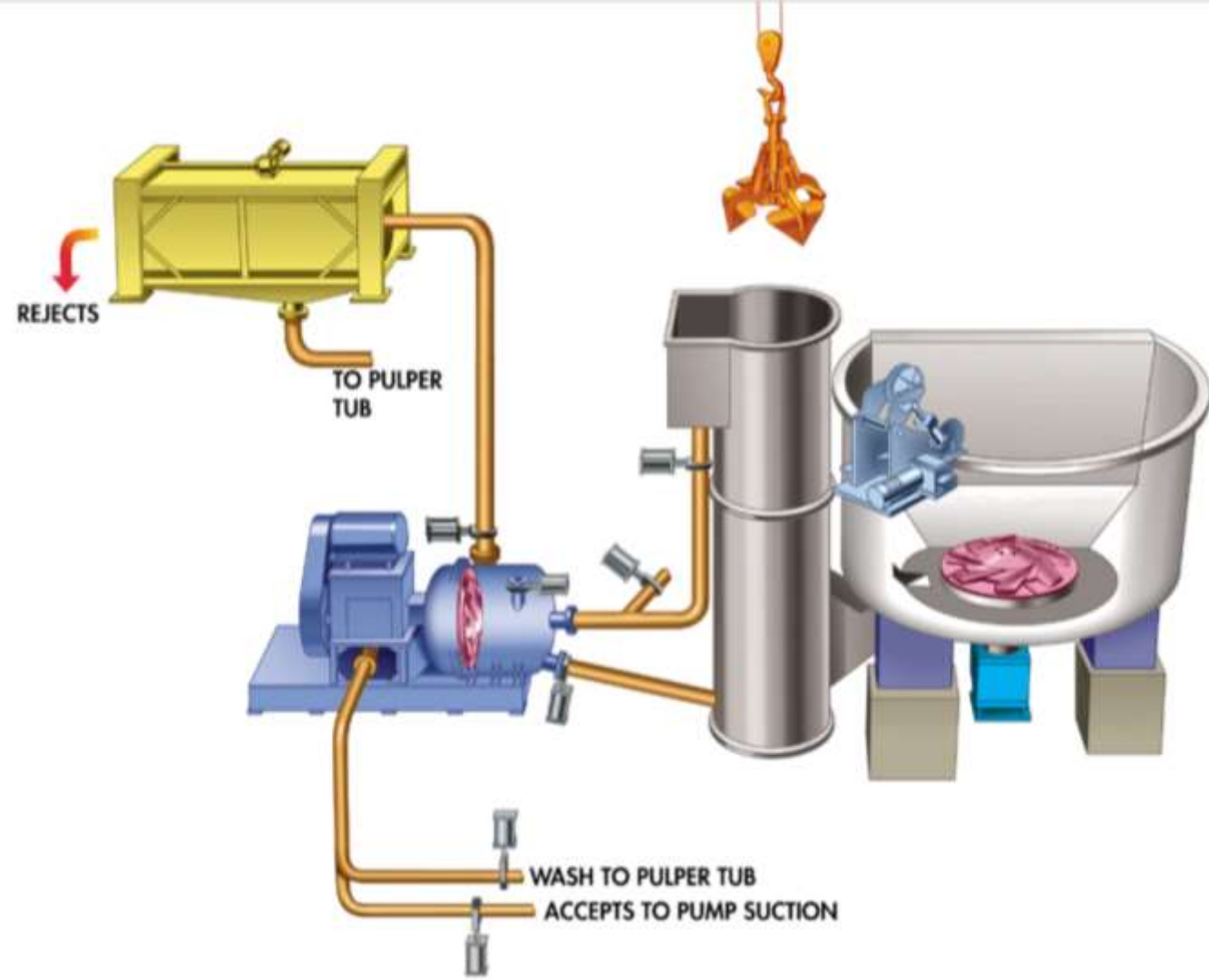
Fiber Quality VS Contamination in the Fiber Supply



3.2 AOCC Feature

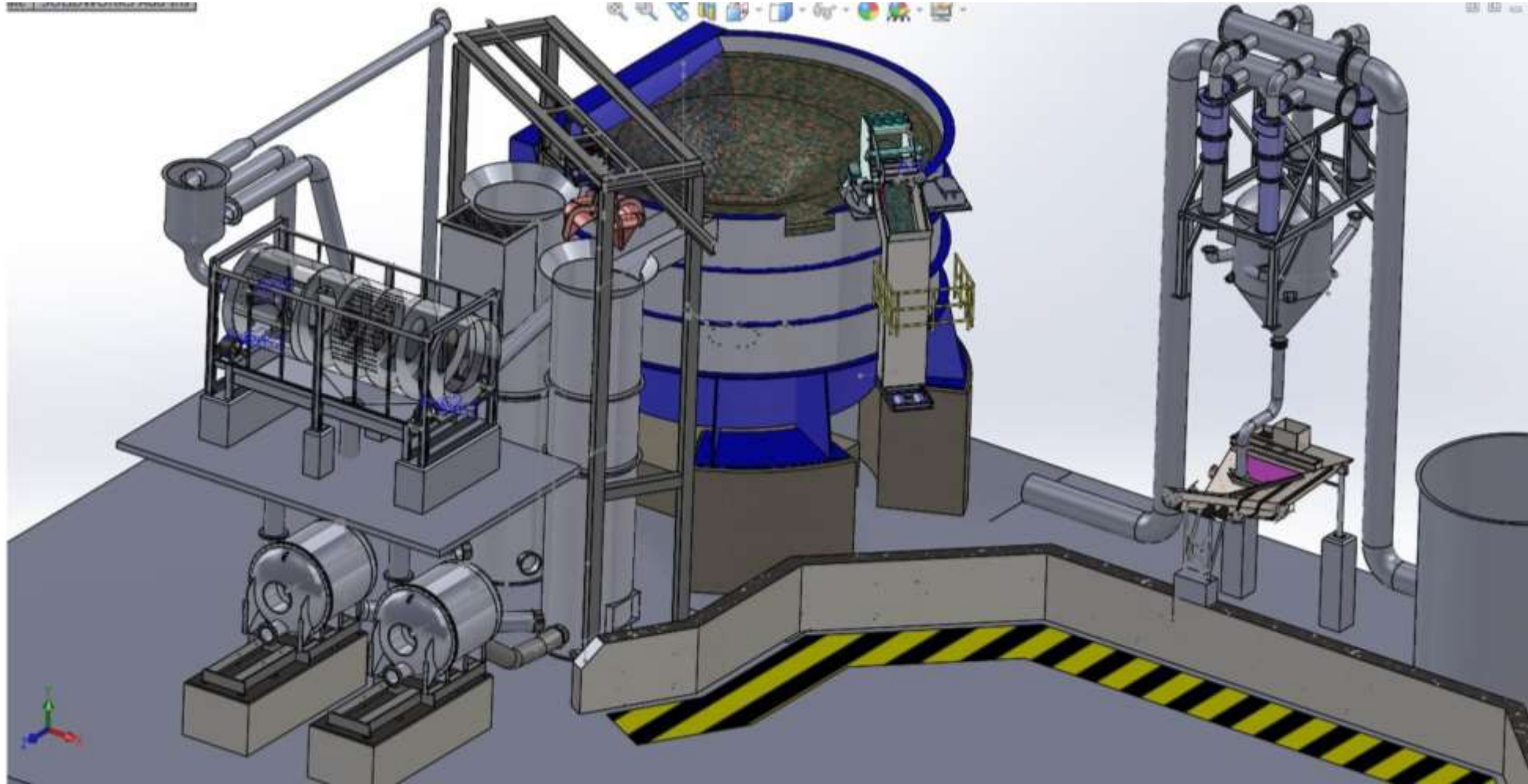
- AOCC contain very **good long fiber**, but **difficult to defiber it**. Some case, there are small percentage of **wet strength paper**.
- AOCC has more **wax** which is **difficult to removal**, effect product quality, reduce wire & felt operating life and adhibit dryer cylinder to break the paper
- Why? — American linerboard contain quite high percentage of **virgin fiber**. Wax box for fruit and food industry package.

3.3 DR-Hydrapulper w/ Hydrapurge Ix



3.4

The Automatic Grapple/Hoist Design Installation



4. KFC Intelligent Factory



4.1

World's leading manufacturing center of green pulping equipment and integrated supply chain

World's largest intelligent and manufacturing center of Kadant



4.1

World's leading manufacturing center of green pulping equipment and integrated supply chain

KFC Intelligent Factory

- The leader in the pulping equipment industry in the world
- Invested by KFC
- 120 acres, production workshop, office building and other supporting facilities 36,000 square meters



4.2

Digital workshop for intelligent manufacturing

Digital workshop for
intelligent manufacturing

Customer visit

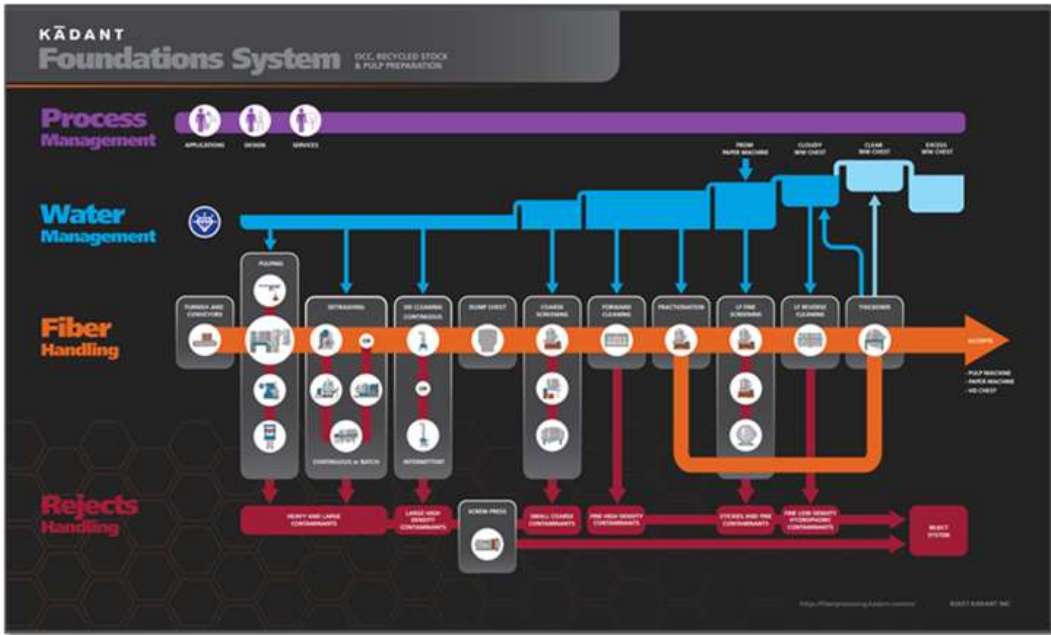
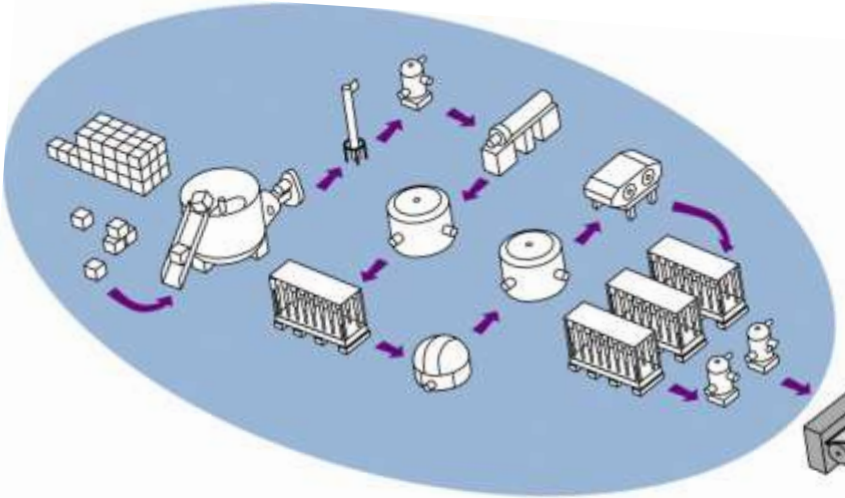


5. What can Kadant Offer to Market

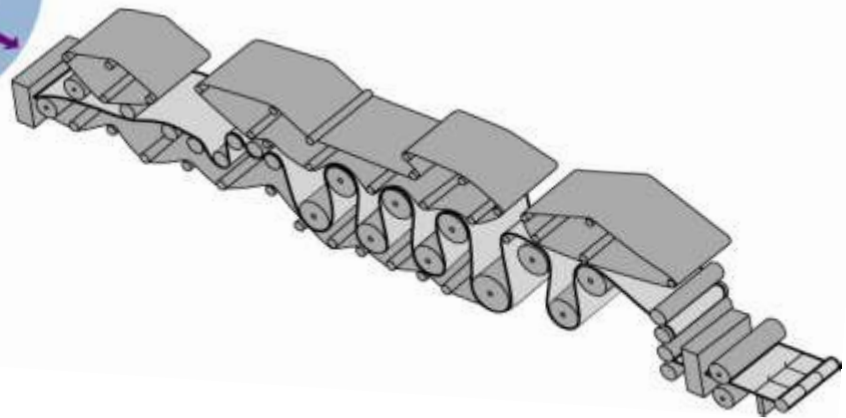


5.1 Process Flow

Process Flow

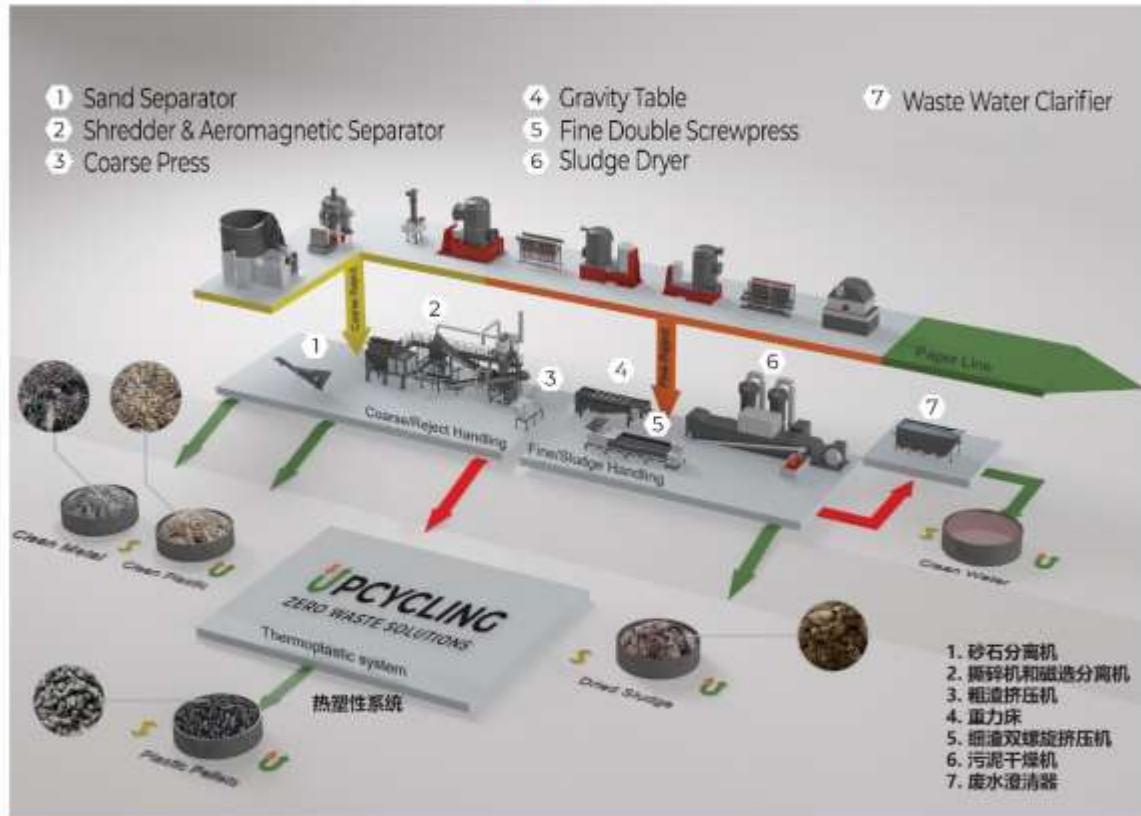


Waste Paper -->>> Pulp



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

What do we offer

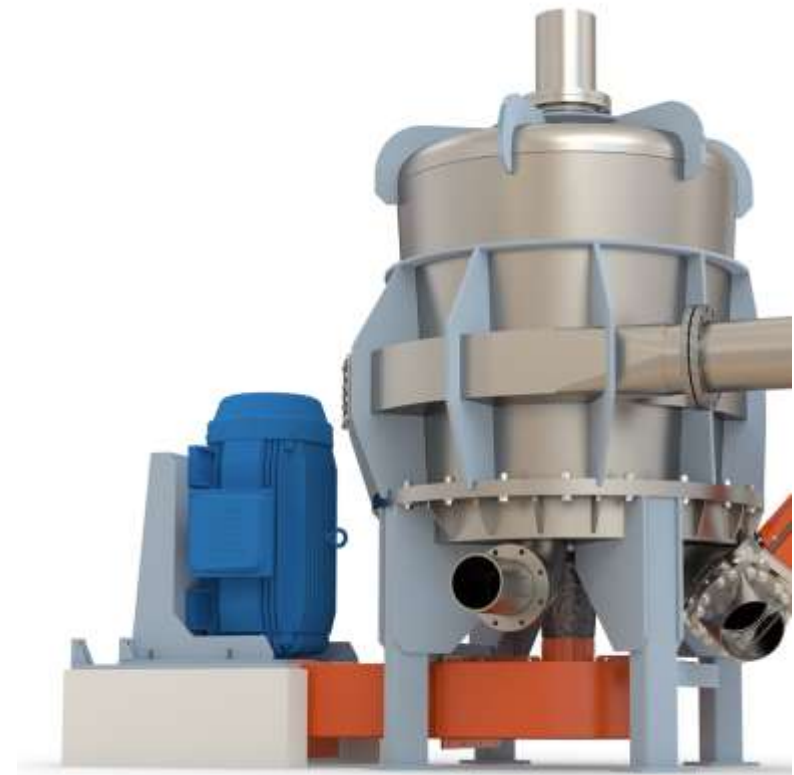
Product

- Pulping/Screening/Cleaning/Thickening/Deinking
- Detrashing
- Refining and dispersing
- Reject handling
- Recovery systems

Service

- Field services, inspections, and audits
- Rebuilds and retrofits
- Upgrades and modernizations
- Maintenance and service contracts
- Process control solutions

- Certified spare parts



KADANT

5.5

Three advantages of Foundations Line

Market Share

69% ↑

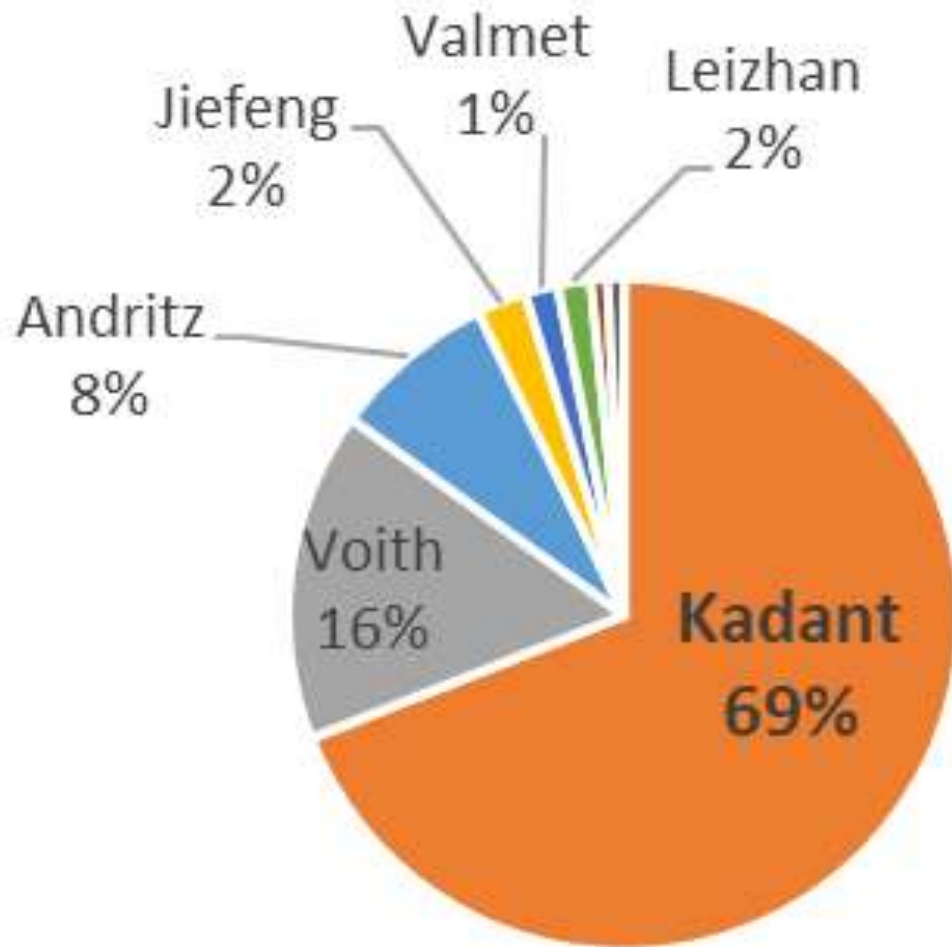
Line Fiber Loss

1% ↓

Energy Saving

20% ↑

5.6 Market Share in China – OCC Equipment



Market Share
69% ↑

5.7

Capacity of Main Packaging paper mills in SE Asia

KFC Supply

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



• 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

tons / year

2024

5.8

Capacity of Main Packaging paper mills in SE Asia

KFC Supply

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



- 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

tons / year

2024

6. Installation



6.1

Part of Chinese Customers



江门桥裕

玉田顺发

金鳳凰紙業

KADANT

6.2 Installation – Liansheng PM10

- **LianSheng OCC PM10**
- **Startup** Aug. 2020
- **Capacity** 2000 TPD
- **Width** 8660 mm
- **Location** Fujian, China



6.2 Installation – Bohui PM5/PM6

- **Bohui OCC PM5/PM6**
- **Startup** 2019/2019
- **Capacity** 2150/2200 TPD
- **Width** 8750/9600mm
- **Location** Shandong, China



6.2 Installation – Sun PM1/PM2

- **SunPaper OCC PM1/PM2**
- **Startup** 2020/2021
- **Capacity** 1500/1500 TPD
- **Width** 6800/6800mm
- **Location** Laos



8.2 Installation–Shanying HuaZhong PM23

- **Shanying Huazhong OCC PM23**
- **Startup** 2022
- **Capacity** 400,000 TPY
- **Width** 7800 mm
- **Location** Hubei, China



6.2 Installation– Shanying Guangdong PM52

- **Shanying Guangdong OCC PM52**
- **Startup** 2022
- **Capacity** 1400 TPD
- **Width** 8660 mm
- **Location** Guangdong, China

