



# KĀDANT

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the Expert on OCC Handling

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# Who is Kadant

The background of the slide is a photograph of a large industrial facility, likely a paper mill. It features a complex network of white pipes running horizontally across the upper part of the frame. Below the pipes, there are multiple levels of metal walkways and platforms. In the lower half, there are large, intricate mechanical structures, possibly part of a paper-making process, with various rollers and supports. The lighting is industrial, with bright spots from overhead lights.

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

# 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

# Global Platform Serving Customers Worldwide



# About KFC

The background image shows a vast industrial facility, likely a paper mill. It features a complex arrangement of machinery, including large rollers, pipes, and structural supports. Multiple levels of walkways with metal railings are visible, suggesting a multi-story operation. The floor is a smooth, light-colored concrete. The lighting is bright and even, typical of an industrial environment. The overall scene conveys a sense of large-scale manufacturing and engineering.

**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.

A large, modern industrial building with a curved facade and extensive glass windows. The word 'KADANT' is visible on the upper part of the building. In the foreground, there is a large stone wall with the 'KADANT' logo and Chinese text. A tree is on the left, and a road with a guardrail is on the right.

# 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
- World's largest intelligent and manufacturing center of Kadant
- 80,000m<sup>2</sup> land area, production workshop, office building and other supporting facilities 36,000m<sup>2</sup>.

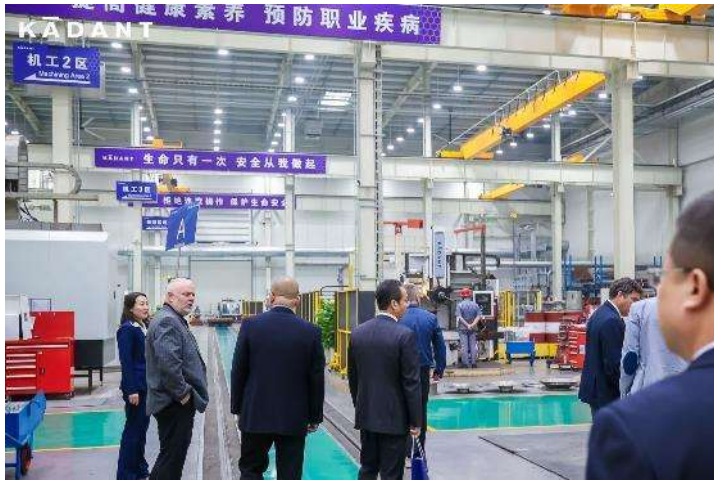
**KADANT**

凯登制浆设备（中国）有限公司

# Digital workshop for intelligent manufacturing

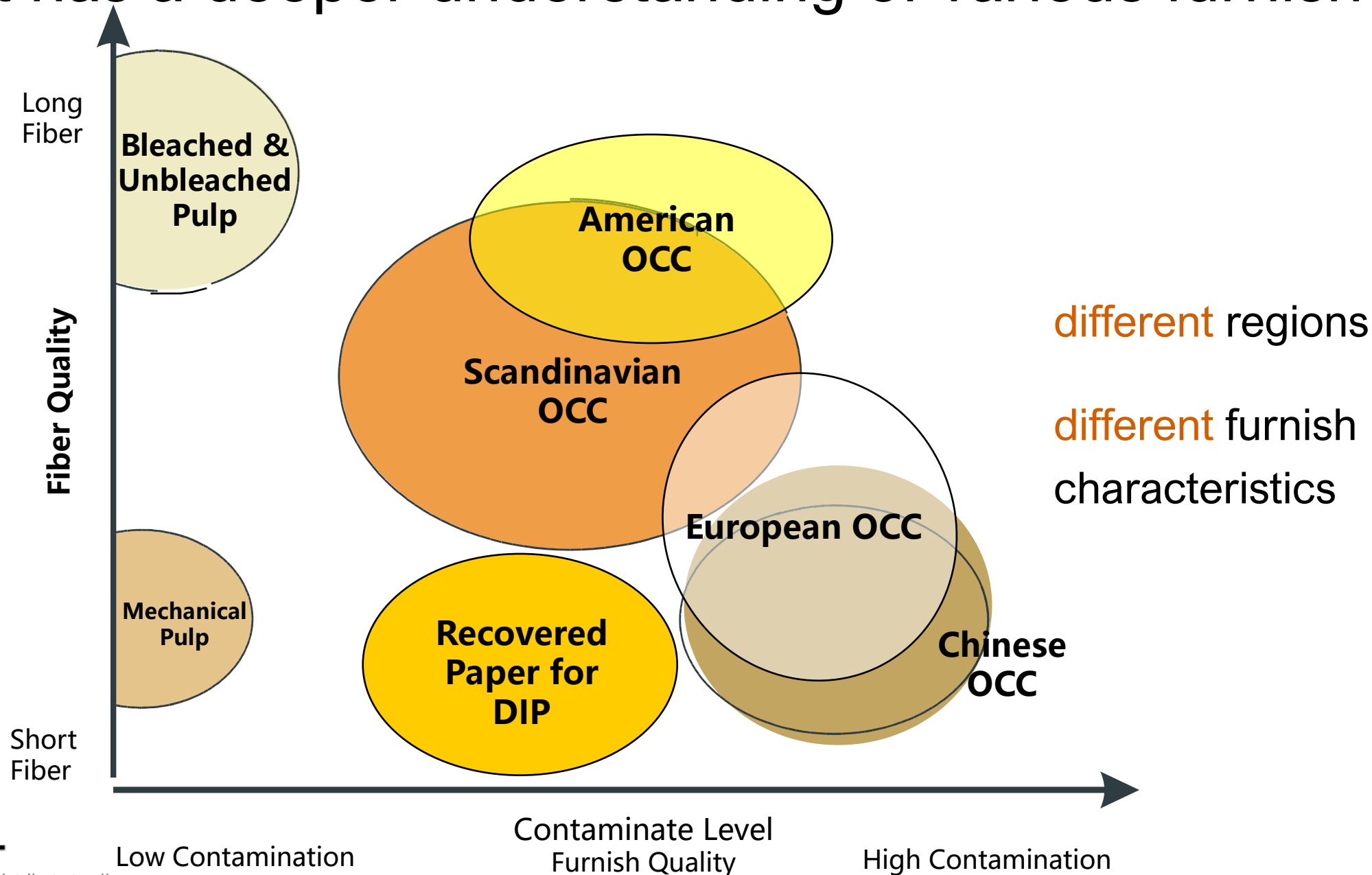
Digital workshop for  
intelligent manufacturing

Customer visit



# Why can Kadant do Better on OCC Handling?

# Kadant has a deeper understanding of various furnish



# Fiber Loss handling AOCC with Conventional Pulping Equipment

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.

# Proven technology, risk-free investment with high returns

Market Share

**69 % ↑**

Line Fiber Loss

**1 % ↓**

Energy Saving

**20 % ↑**

# Cost Savings

**6.12**

Million  
RMB/year

## Furnish Savings

**1% Fiber Loss**

$$1000 \times 1\% \times 1800 \times 340 = 6,120,000 \text{ RMB}$$

Capacity 1000 tpd

**4.42**

Million RMB  
/YEAR

## Electricity Savings

**20% compared to traditional methods**

$$20 \times 0.65 \times 1000 \times 340 = 4,420,000 \text{ RMB/YEAR}$$

based on 20 kWh saving per ton of pulp

Integrated control, seamless connection across all loops

Flume-Flowing White Water Stacking Spring System, no need for white water pump

Single-story layout (14–20 kWh energy saving compared to traditional layout)

# Kadant ensures thorough separation and removal of debris



Kadant: effectively removes debris

**Prevent debris from adversely affecting equipment performance or paper quality**



Debris not thoroughly removed  
**Affect paper quality and cause equipment blockages**

# Energy-Saving Star Product – Energy Savings



20%



**Flume**  
Single-story  
layout

15%



**Pulper**  
Permanent  
Magnet Motor

3-5%



**Screen**  
Permanent  
Magnet Motor

30%



**Coarse Screening**  
Impulse  
Rotor

25%



**Grade / fine Screen**  
Supra  
Rotor

15%



**Pulping Loop**  
Vokesteck  
Rotor

# Foundations™



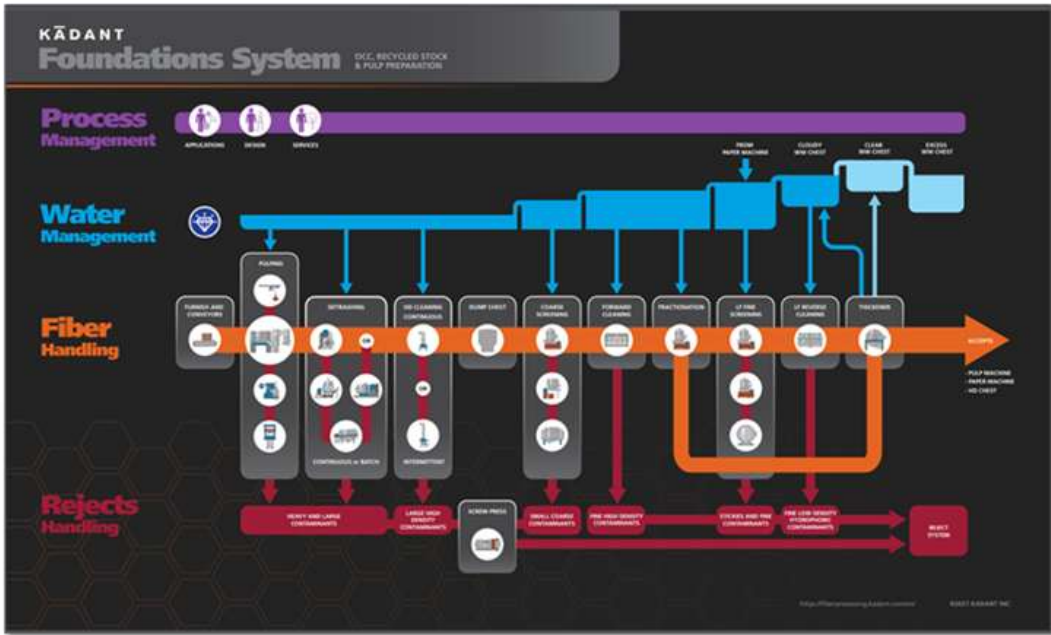
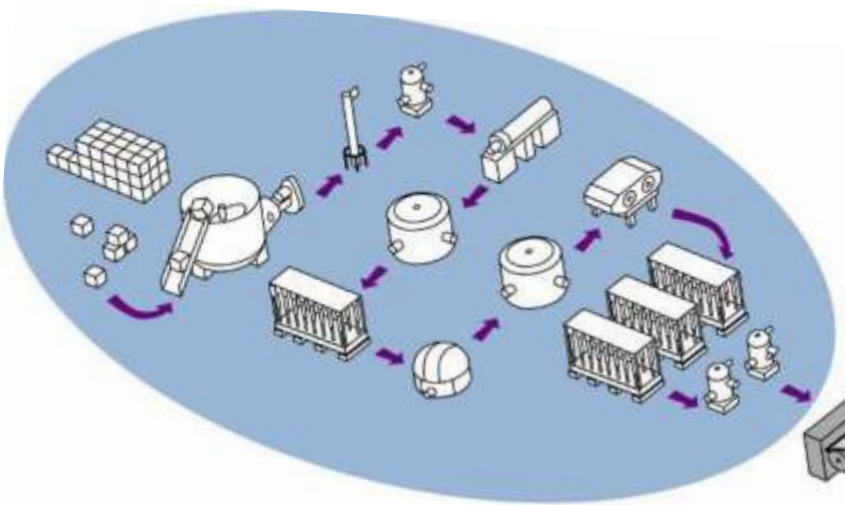
# KĀDANT Foundations

*"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."*

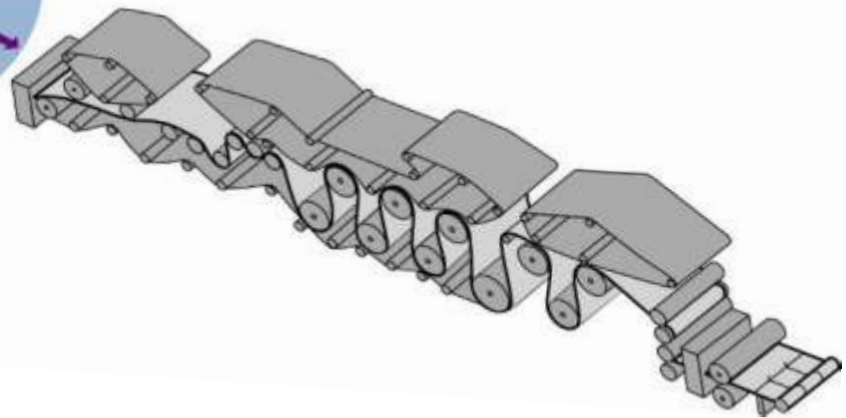
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# Process Flow

## Process Flow



Waste Paper -->>> Pulp



# Over 250 Kadant OCC systems successfully operating in China

Over **250 +** OCC Systems  
in China

Over **50 million +**  
tons/year capacity



# Kadant has nearly 100 successful AFS systems in China

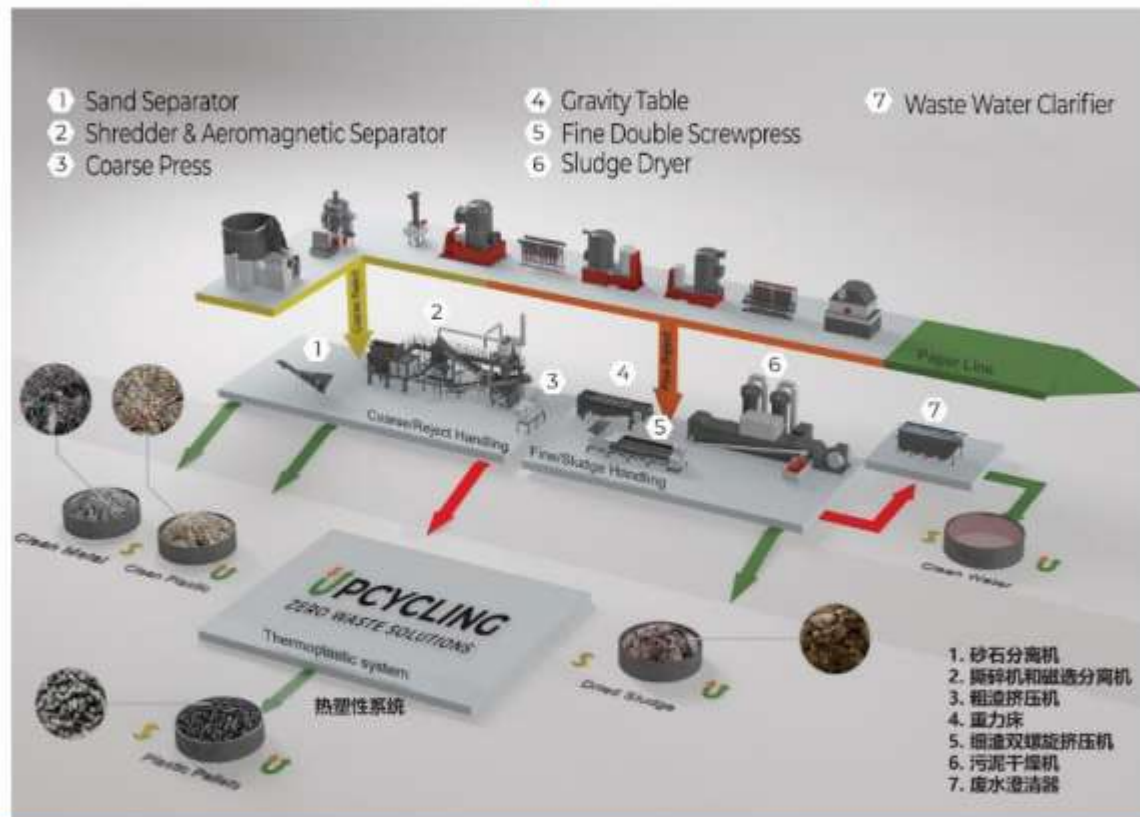
- Work for 16 paper machines with 6.6M width and 9 with over 7.8M
- Upgrade 15 AFS systems from other suppliers
- Significantly improve paper quality
- Enhance mill competitiveness



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# 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

## 从废弃到价值



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

## 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



Confidential

# 5 Direct Orders in recent 2 years in Southeast Asia

Vietnam	越南
Nine Dragons	1500T/D PM2 OCC Pulping loop System
Lee&Man	1200T/D PM19 OCC System
Thuan An	900T/D OCC pulping loop System
<b>GDT PAPER</b>	<b>1050T/D OCC System</b>
<b>Miza</b>	<b>700T/D PM5 OCC System</b>
<b>Dohaco</b>	<b>1050T/D PM3 OCC System</b>

Malaysia	马来西亚
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 AOCC for Recycle Pulp
Nine Dragons	2*1200 T/D AOCC for Recycle Pulp

Laos	老挝
Sun Paper	1500T/D PM1 OCC System
Sun Paper	1500T/D PM2 OCC System
Sun Paper	1200T/D AOCC for recycled Pulp

Indonesia	印度尼西亚
<b>APP</b>	<b>800 T/D AOCC pulping loop System</b>

Cambodia	柬埔寨
<b>Xingbang</b>	<b>PM2 OCC/AFS System</b>
<b>Xingbang</b>	<b>PM1 Rebuilt</b>

Thailand	泰国
Shanying	1200T/D AOCC for recycled Pulp

# Part of Chinese Customers



江门桥裕



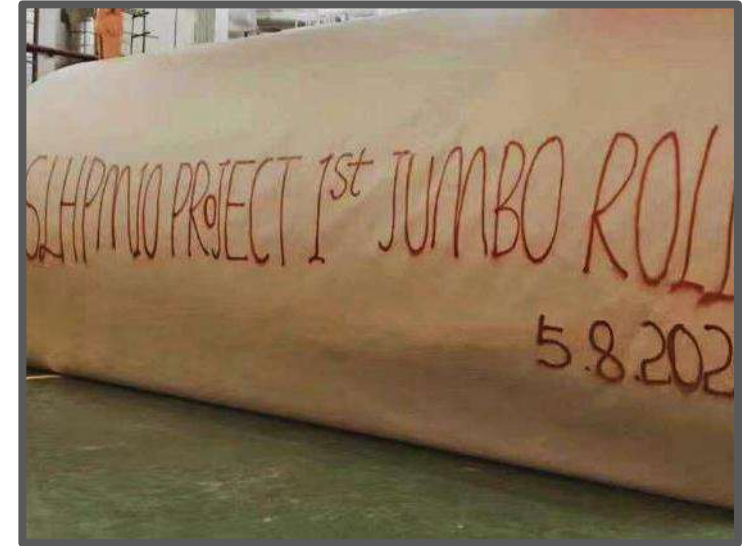
玉田顺发



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# Installation– Liansheng PM10

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



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# Installation – APP Bohui PM5/PM6

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



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# Installation– SunPaper PM1/PM2

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



# Installation – Shanying Guangdong PM52

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



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