

**THLE**  
新华起重工具

# GRAB & HOPPER



2025 Version

Manufacturer

We customize GRAB and HOPPER for dry bulk discharging. And other liftings.



# FACTORY



330 employees



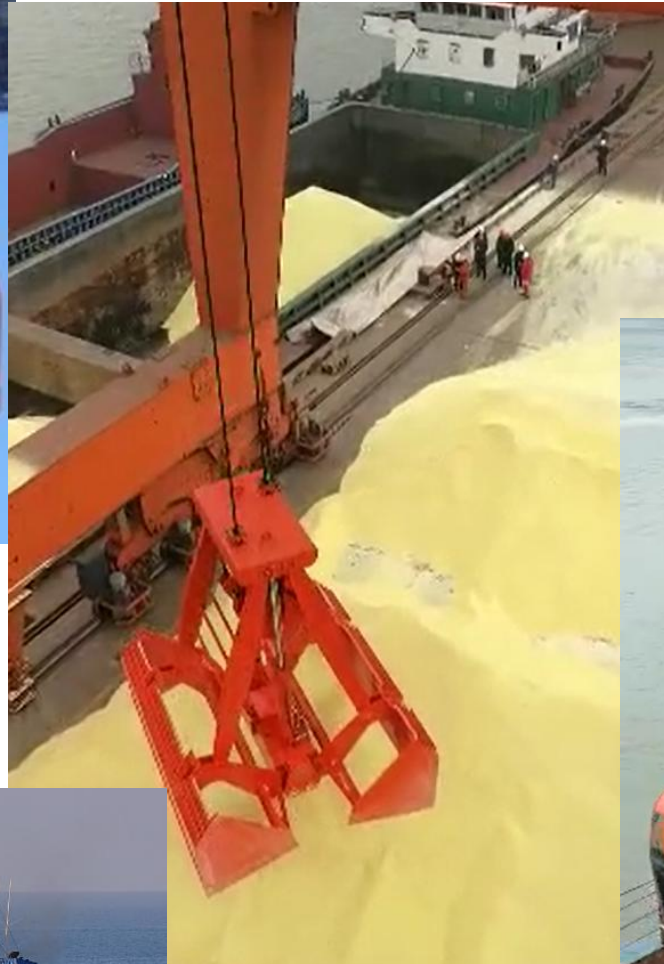
# WORKSHOP





# Remote control grab

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# Mechanical Grab



Coal  
Iron Ore  
Many others



Wooden chip



Steel scrap

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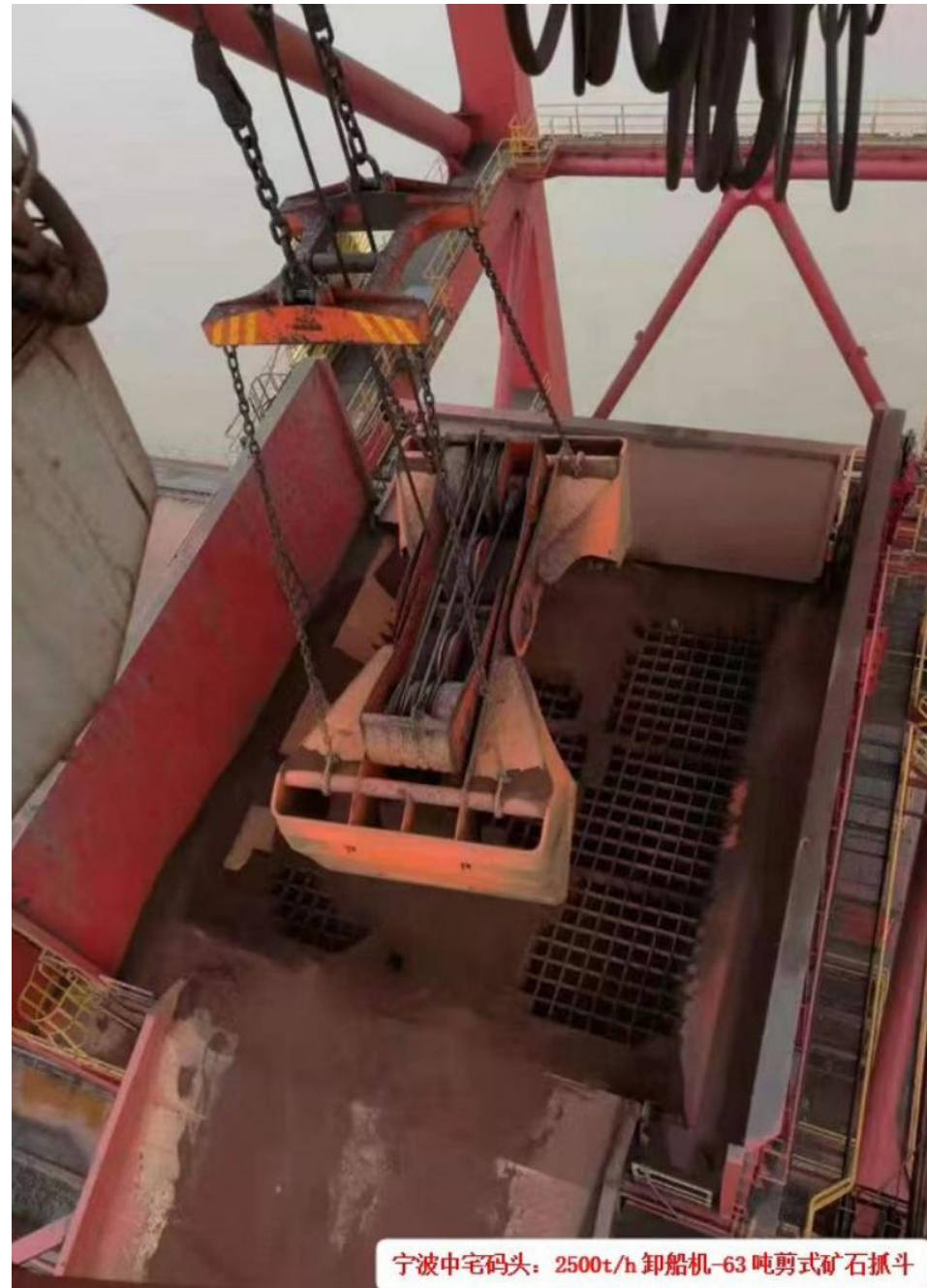
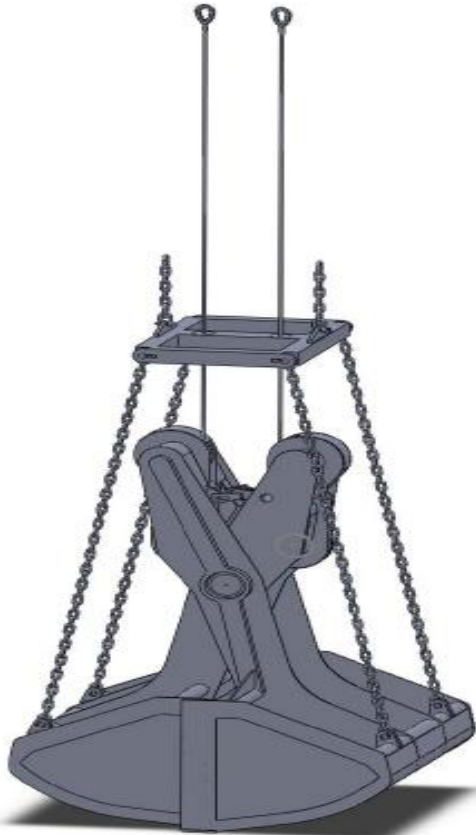
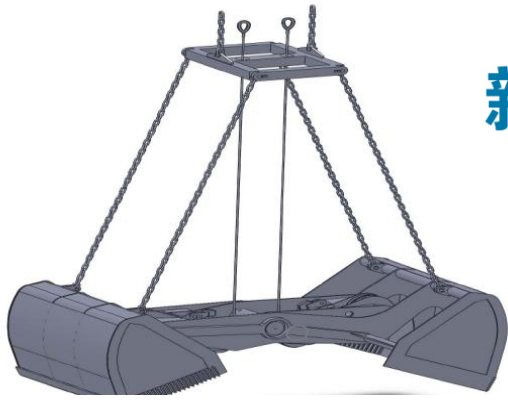
## Timber log Grab

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# Scissors Grab

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宁波中宅码头：2500t/h 卸船机-63 吨剪式矿石抓斗



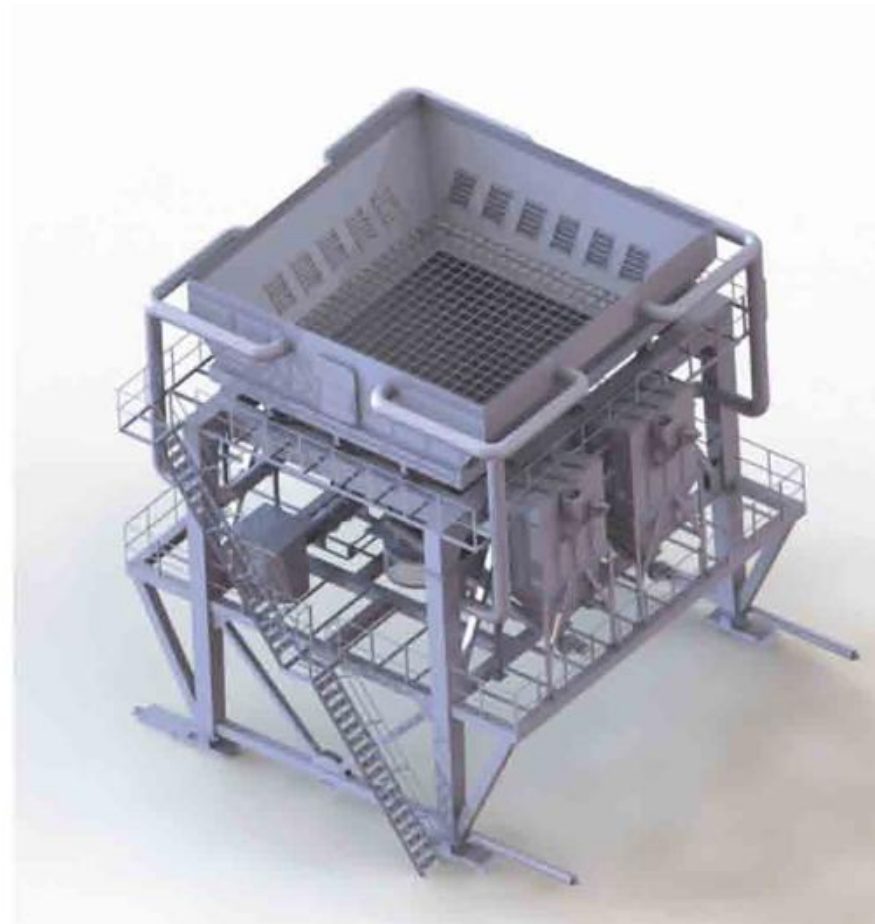
# Electric-hydraulic grab



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# Dust suppression hopper

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## Comparison

### Dust suppression hopper

1. Avoid cargo losses.
2. Super high work efficiency  
Dust filtration system



### Normal hopper:

1. Too much dry bulk powder fly to air and gone, A large amount of cargo was lost.
2. Seriously pollute the environment  
and Serious threat to human health.

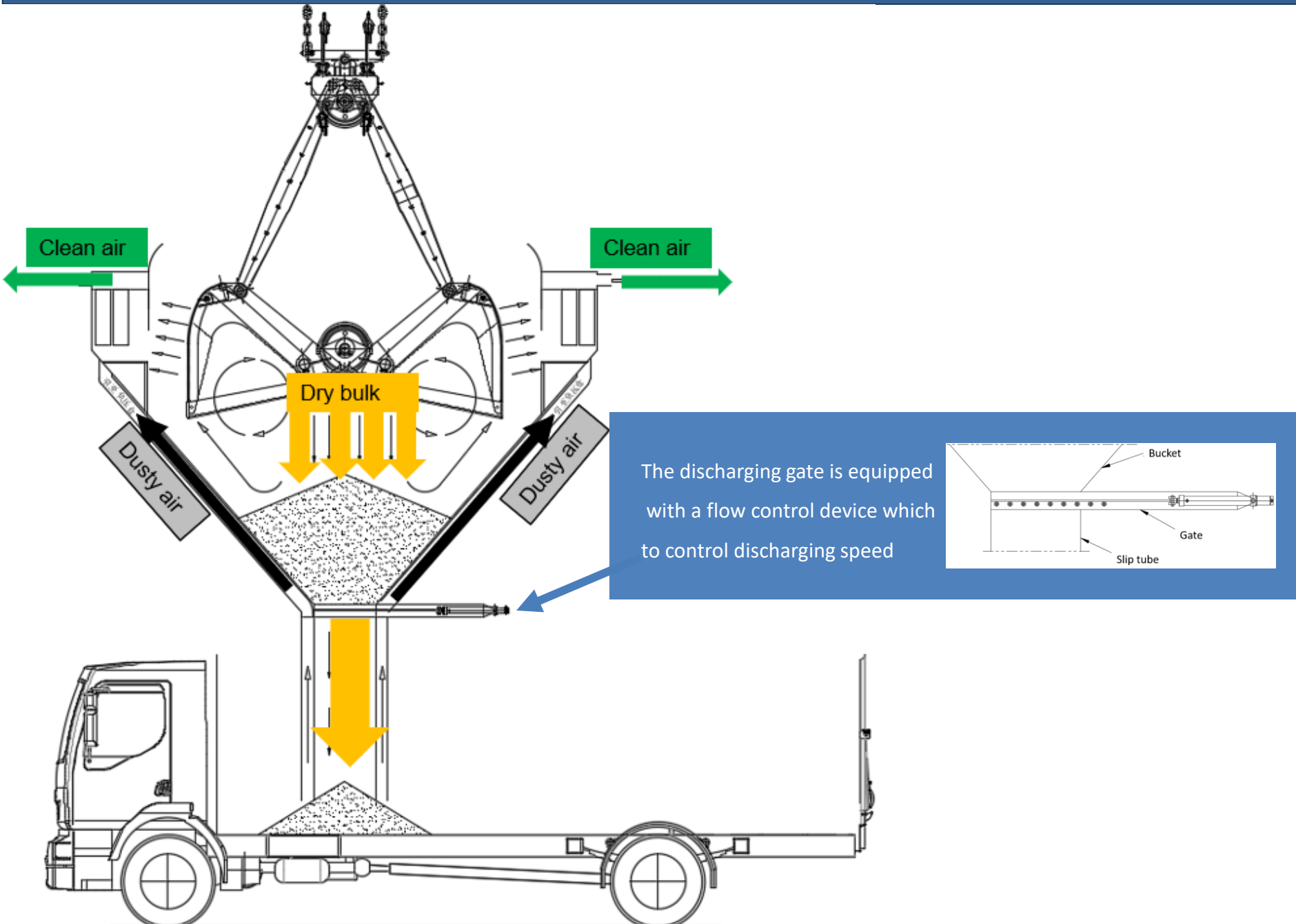


# Application: Foodstuff/Dry cassava/Clinker/Fertilizer and many others dry bulk

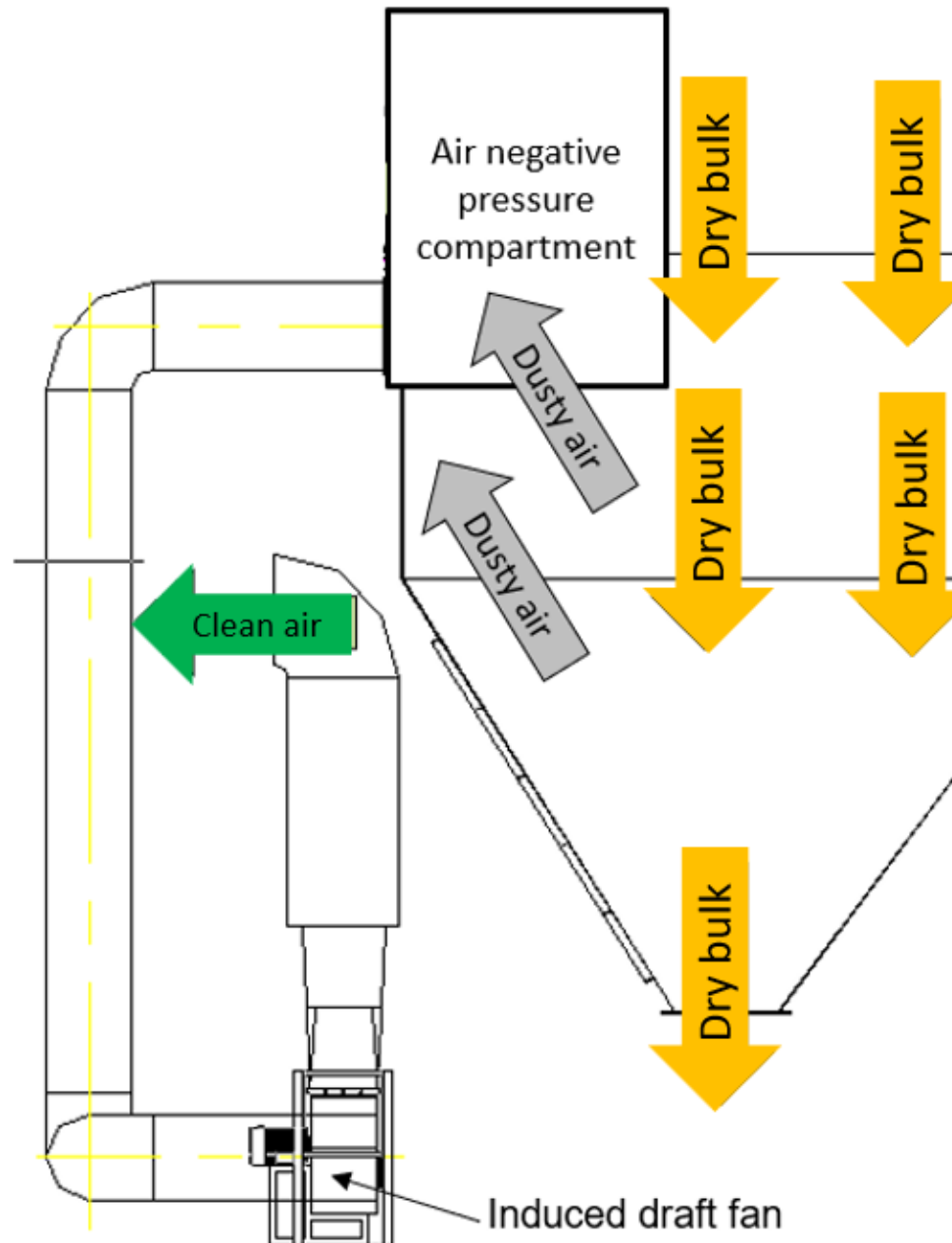




# Principle of operation

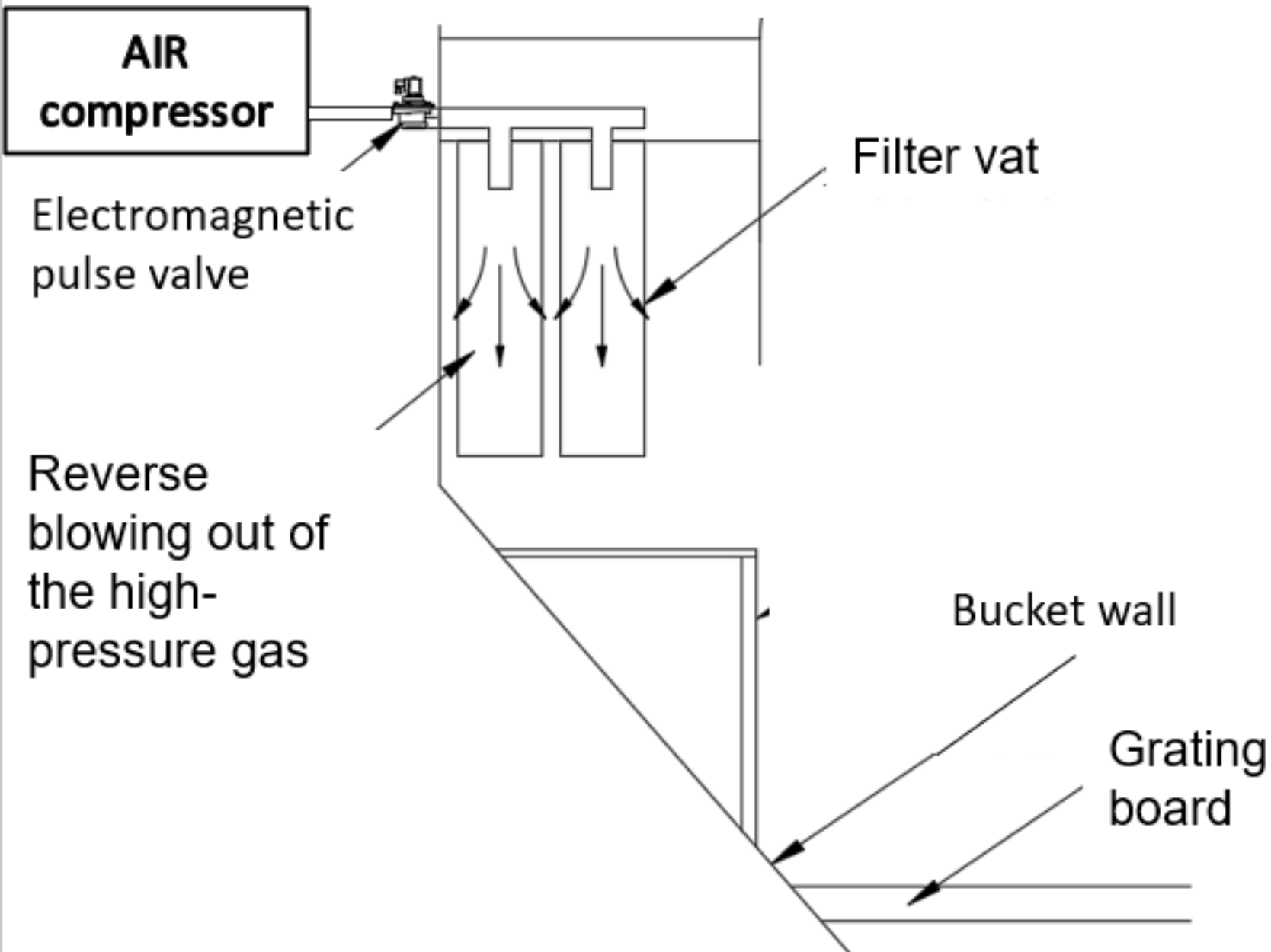


# Dust suppression system operational principle





## Dust suppression system operational principle



## Telescopic slip tube

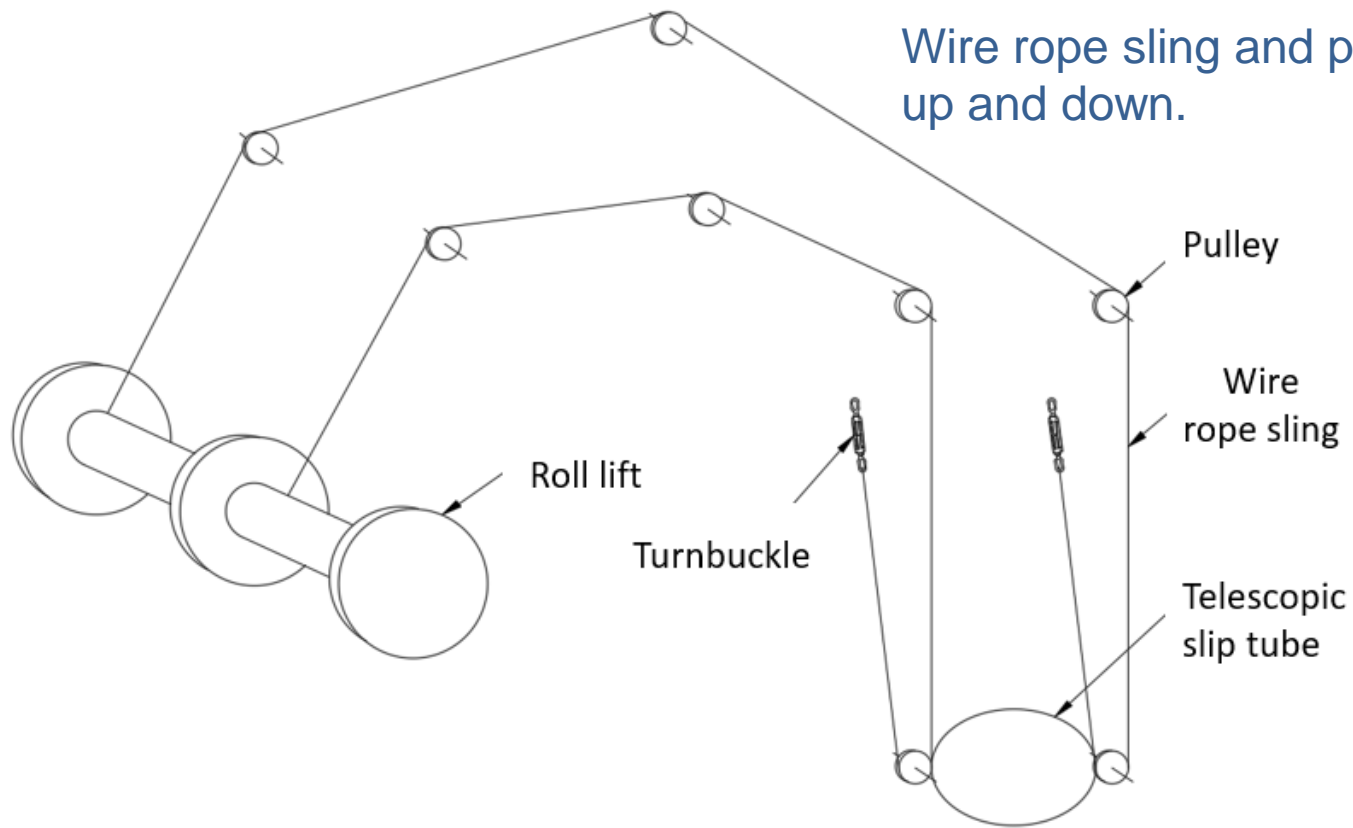
The telescopic slip tube and the hopper have a certain swing freedom in the direction of the vehicle, Avoid damage or shedding due to slight drag.



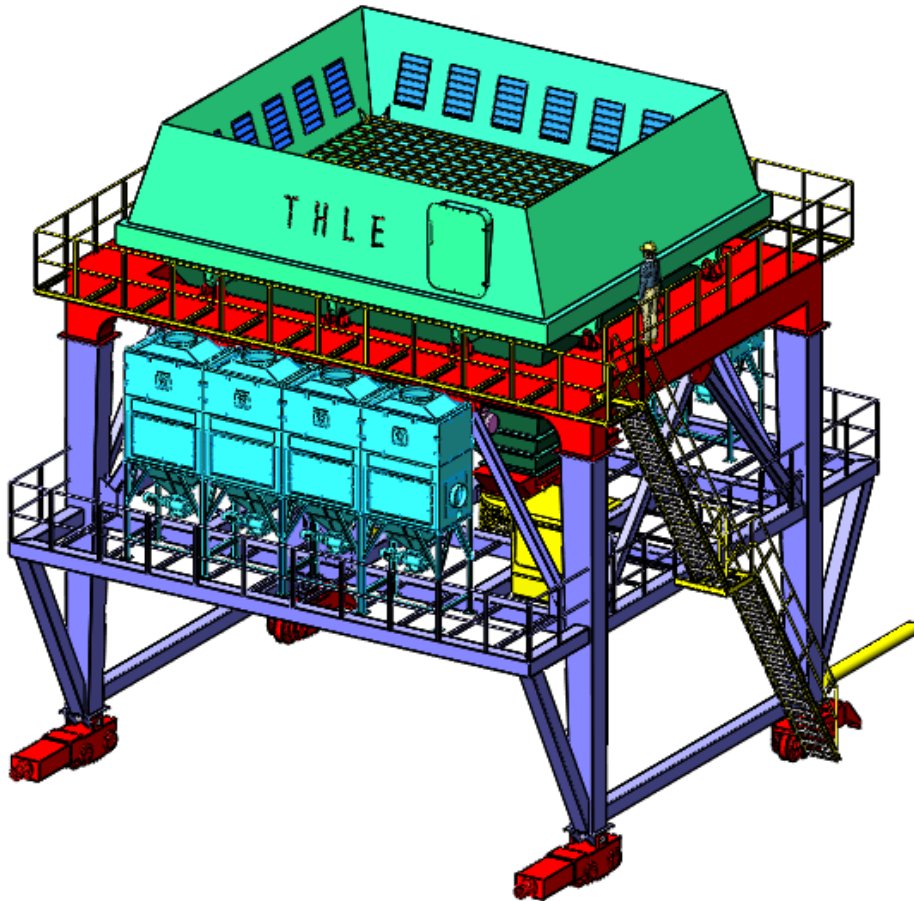


# Telescopic slip tube

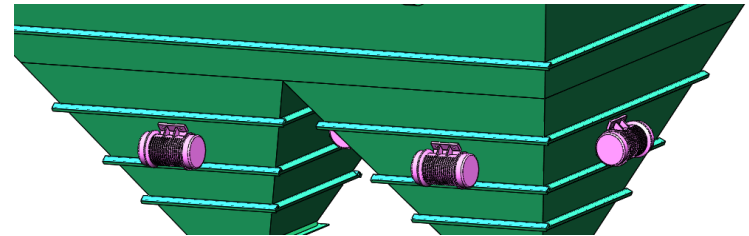
Wire rope sling and pulley drive the tube go up and down.



# Vibrating system



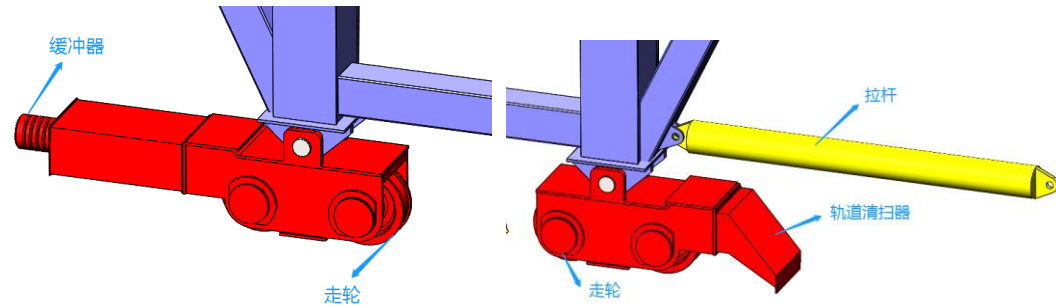
- Vibrating system to speed up dry bulk failing . Prevent cargo from sticking inside hopper bucket.
- Collect dry bulk powder into recovery system, and than fail down to discharging gate again.





## Optional configuration

- Dust spray system on top opening.
- Remote control discharging door open & close by cylinder drive.
- Gantry wheel or tyre are also optional .



## Control room & Power

The hopper is controlled by PLC in the control room.

Control transformer, air compressor, freeze dryer,  
air filtration system ,etc.



The hopper power from the crane .

The crane is equipped with a power box, which on the land side of crane leg ,  
THLE provides the corresponding power cable and control cable between  
the crane and the hopper.

Cables are equipped with drum for it storage during shutdown.





Project reference	
Discharging work efficiency	≥400t/h
Specific dry bulk	Foodstuff
Volume	≥60m <sup>3</sup>
Dry bulk weight	≥40t
Physical dimension	L 10000 X W 10000 X H 14500mm around or customize
Top opening (Grab is closed into the hopper )	≥6500x6500mm
Inner dimension （The grab opens in the hopper ）	≥7000x7000mm
Distance between legs	6500mm or customize
Vehicle maximum-through height	≥4400mm
Clearance height when the telescopic slip tube drops to the lowest position （Exclude dust suppression curtain ）	≤1.1m
Hopper materials	Main fabrication Q355B/Q235A .Bucket inner plates use wear-resisting plate NM400

Hydraulic pressure station of landing leg:	5.5kw*2 380V/50Hz 25MPa
Total handling of air volume	>60000 m <sup>3</sup> /h
Dust removal effect	>90%
noise	<90 decibels
total power:	60kw
Deadweight:	Around 65t

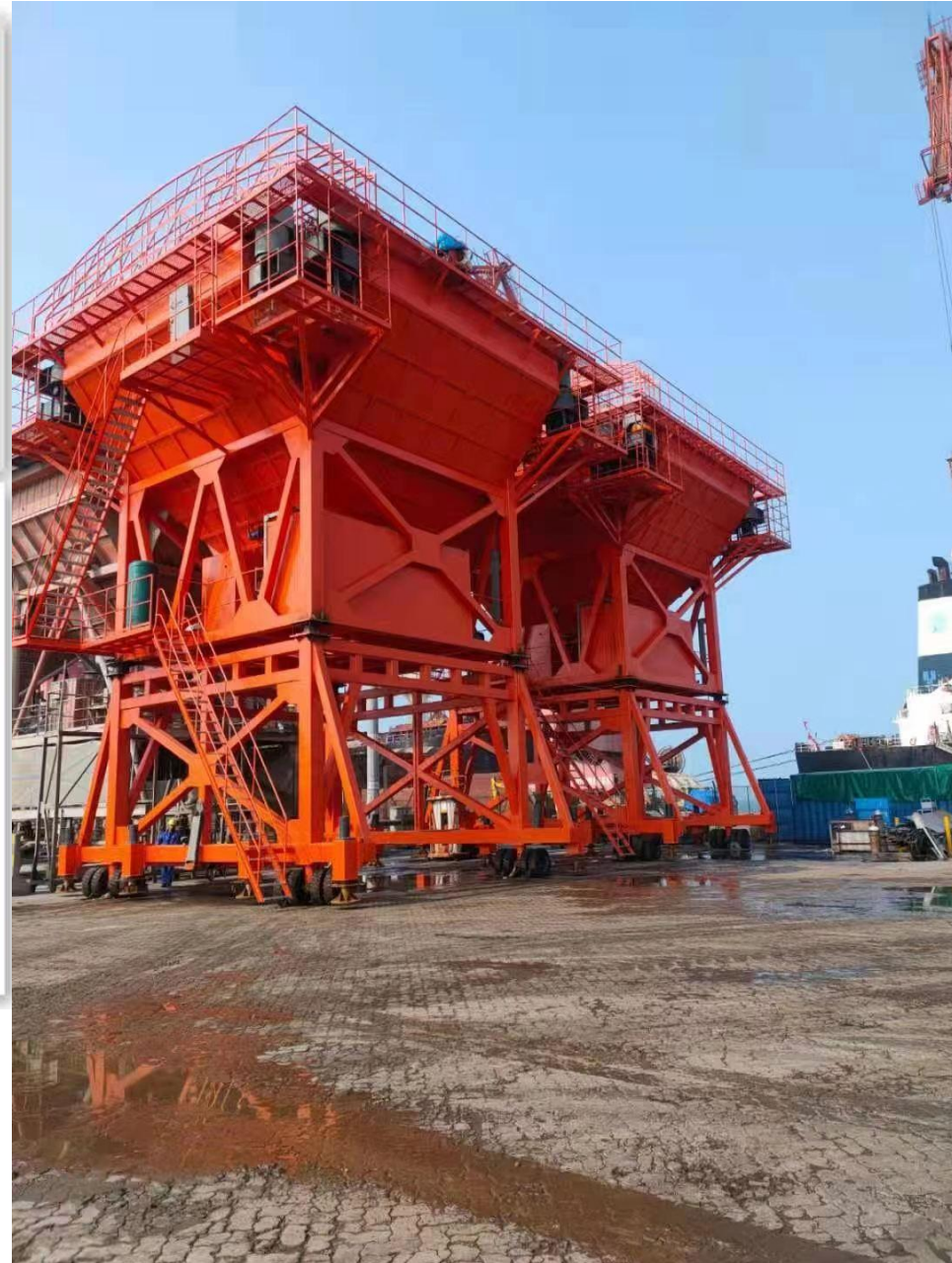
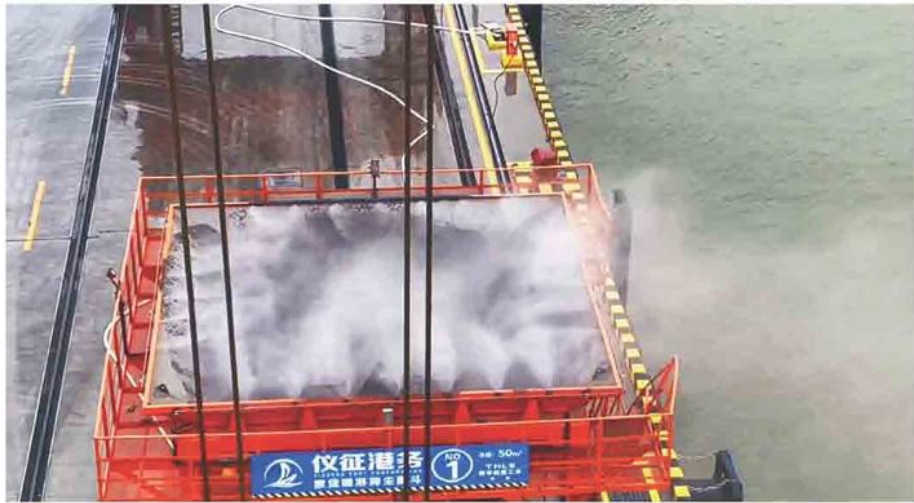
Telescopic slip tube diameter :	≥600mm
Filling gate:	≥800X500mm
Filling gate open/close time	Around 12s

## Other projects reference



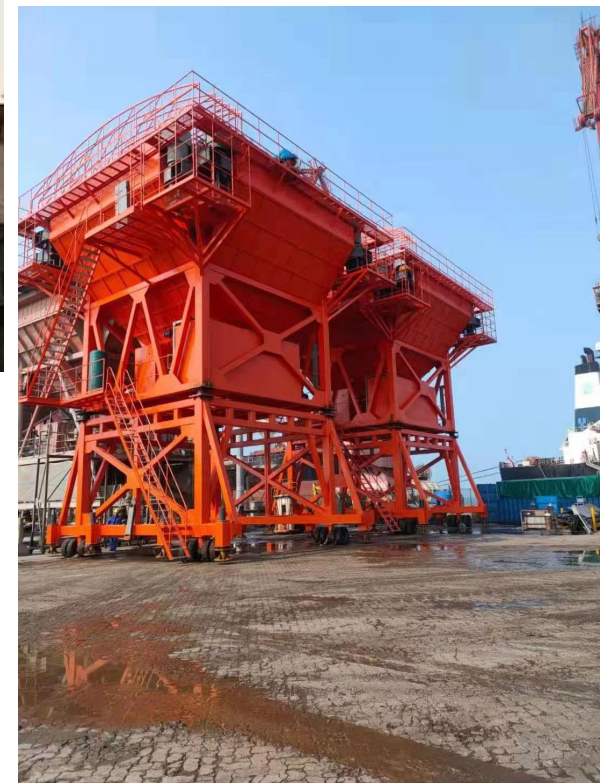


## Other projects reference

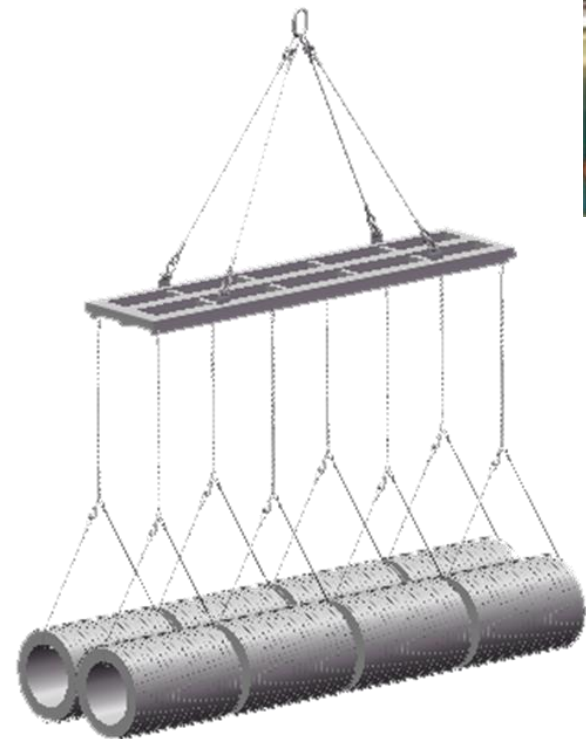




## Other projects reference



## Other lifting items





# Facilities - Forging & Machining



3000T Forging machine  
Large gantry machining center  
Furnace for heat treatment



# Facilities - Quick glance





# THLE Test Center







PARADIP  
INTERNATIONAL  
CARGO TERMINAL





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