THLE

Dust elimination hopper







Why we need dust elimination hopper

Dust elimination hopper

- 1. Avoid loss of dry bulk.
- Super high work efficiency Dust filtration system



- 1. Too much dry bulk powder fly to air and gone, Big lost.
- 2. Seriously pollute the environment and endanger the health of personnel.







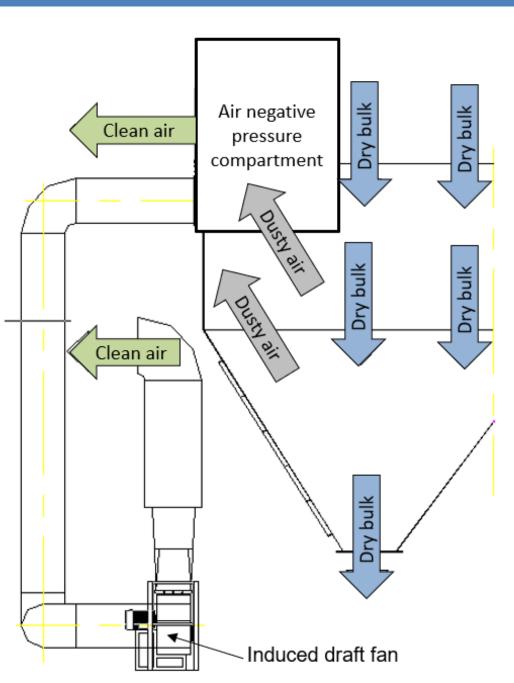
Applicable dry bulk | Foodstuff / Dried cassava / Clinker and so on



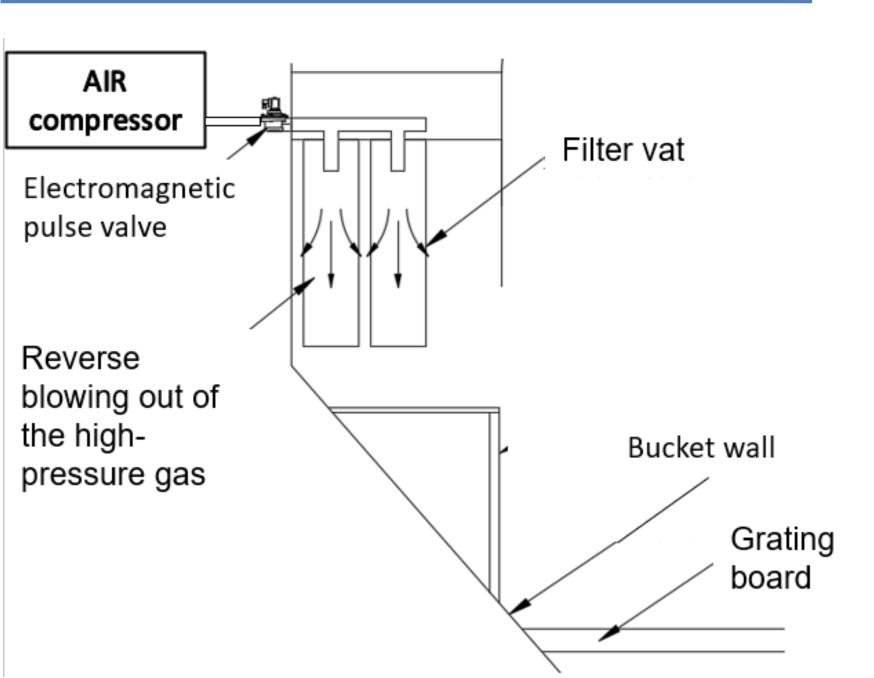


Principle of operation Take the example of unloading Dry bulk Dusty air foodstuff, Use grab discharge . Clean air The discharging door is equipped with a flow control device, Used to control the outlet size of the door opening.

Dust-removal system operational principle

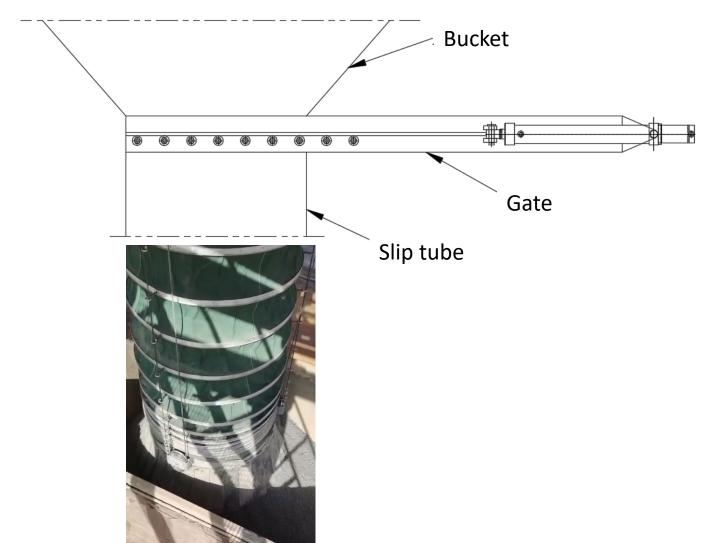


Dust-removal system operational principle

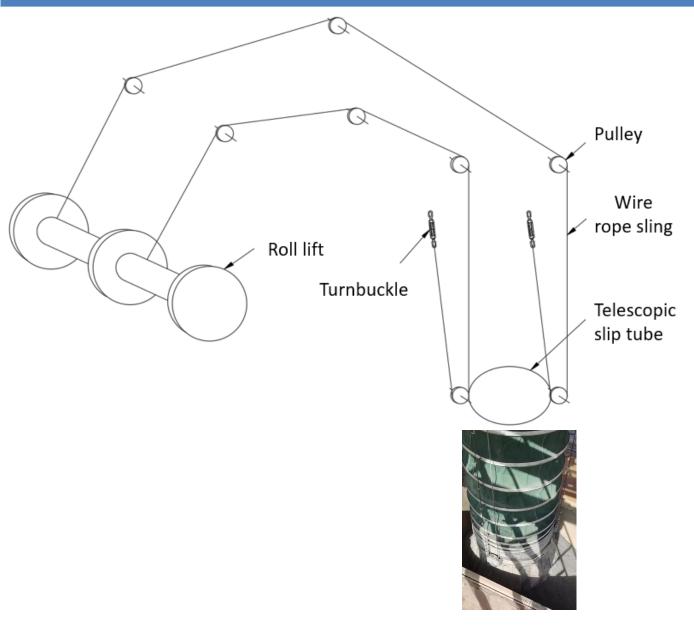


Discharge mechanism

The discharging mechanism adopts electric drive. The access door is set near the discharging door to convenient maintenance, in order to repair the obstruction of the feeding. Using electric slip tube with vacuum device. 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.

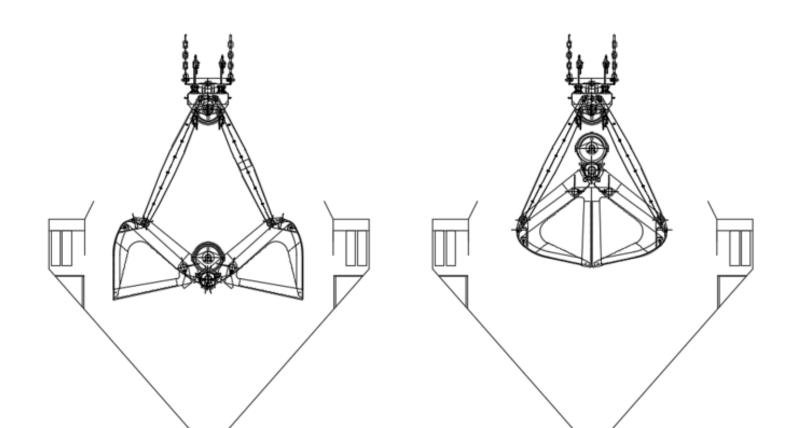


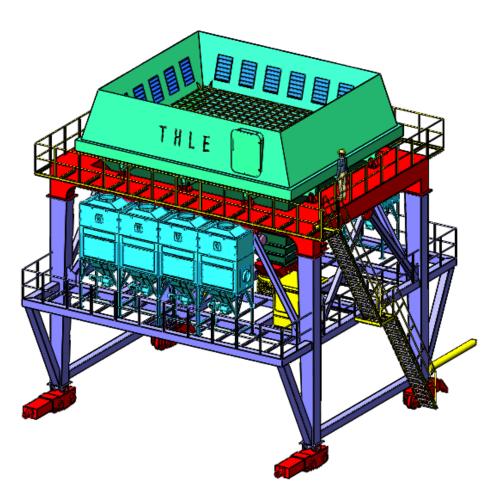
Telescopic slip tube go up and down be drived by wire rope sling and pulley.



The main component of the hopper

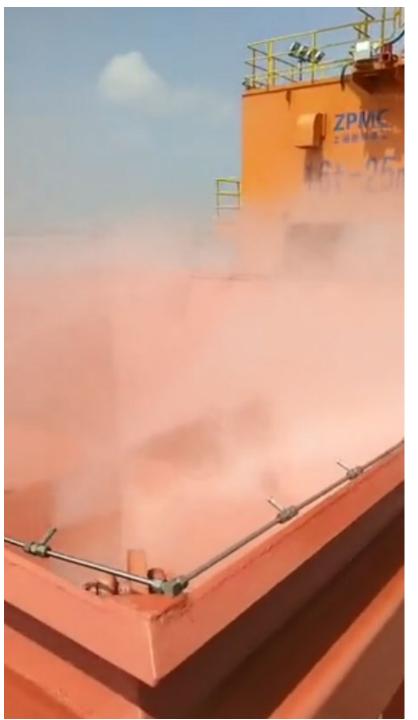
The hopper is composed of main bucket, feeding system, dust suppression system, gantry structure, mobile mechanism, electrical system, etc





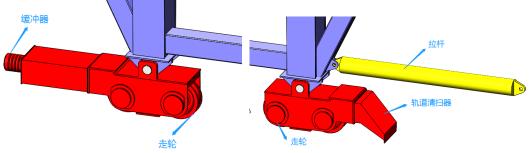
- Vibrating system to speed up dry bulk failing. Prevent cargo from sticking inside hopper bucket.
- Collect dry bulk powder into recovery system, and than fail down to discharging gate again.





Optional configuration

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



Driver room and electrical room

The hopper is controlled by PLC and operated by driver in the operation room.

Set the electrical room on the hopper which is used for placing electrical cabinet, transformer, air compressor, freeze dryer, etc.

It has air filtration system (to meet the ambient air requirements of the equipment), which is well sealed and

resistant to Marine climate corrosion



Cables

The power supply of the hopper is provided by the crane . (The crane is equipped with a power box, which is set at the crane leg on the land side) , THLE provides the corresponding power cable and control cable between the crane and the hopper. Cables are equipped with cable drum for cable storage during shutdown.



Sample reference

Discharging work efficiency	≥400t/h
Specific dry bulk	Foodstuff
Volume	≥60m³
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 m³/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

THLE Projects reference































CERTIFICATE NUMBER
13-MMPS-FF&PAC-472 MMPS: 7884: OID: 3013692: O2E: T1027475

ABS MATERIALS HOUSTON

CERTIFICATE OF FORGING FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of

Wuxi City Xinhua Lifting Equipment Co., Ltd.

attend its facilities as indicated in the ABS port office survey report number NX2195815 dated 17 April. 2013, in order to curry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Steel Forgings for Marine Applications

is accordance with the ABS Approval latter, ABS Bules, designated standards and ABS approved frawings. The approval is valid subject to adherence to relevant ABS Rules and survey requirements and annual Society and ordered by an ABS representative.

ISSUE DATE: 17 April 15 ENTRATION DATE: 16 April 18



SECOND BY

ABS MANAGER, MATERIALS, HOUSTON

DESCRIPTION OF THE PROPERTY OF

FOLISTI ANNUAL INDOSCRICTORY

THLE





中国船级社 图形形型// 1000 CHINA CLASSIFICATION SOCIETY

工厂认可证书 CERTIFICATE OF WORKS APPROVAL

U-158 9/Cartifloxe No. 3/1900002

曾证明本证书所述的选广具各版图下用的维的图案生产本证书积何产品的能力和条件。 This is to cortify that the manufacturer stated in the certificate meets the requirements of the standard's listed below and is available with the ability and conditions to produce the products on described in the certificate.

86h7/Manufacturer

无锡市新华起重工具有限公司

WENT CITY XINDIEA LIFTING EQUIPMENT CO., LTB.

无缘市新区核村工业集中区标达舞238号 No.218 Xido Read, Meinas Industrial Carden New Position, World City

京可产品/ Product Approved

Loose gear

多可能能/ Approval Standard

1.华国新统社 (明)的与张上设施出后设备提出) 在展7/2854/7原 Chapter 5.6.7 of all China Classification Society Rules for Lifting Appliances of Ships and Offitiers Installations

亚韦西敦斯里/ This Certificate is rolld until

2017年12月29日 / Dec. 29, 2017 Low Michigania

中国関係社区等分社 CCS Forges Branch

Date

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BIG MILHOR

中国副级状质量认证公司

质量管理体系认证证书 QUALITY MANAGEMENT SYSTEM CERTIFICATE

编号: No.00516Q20444R4M

被证明

无锡市新华起重工具有限公司

(在新生产能量) 江苏省无锡市岛区海村镇镇已港228 号 起源。214112、超级数码代码。73118890-7)

This is to cartify that the Quality Management System (QMS) of

WUXI CITY XINHUA LIFTING EQUIPMENT CO., LTD.

(Respicted Production Add: No.228 NIDA ROAD, MERCUN TOWN, WIRE CITY NEW ZONE, PLANTING PROPINCE 2/4112. P.R.CRINA: Organizational Cude: 73118810-73

建立的质量管理体系符合标准。 CB/T 19601-2099 / ISO 9661:2668. has been found to conform to standard GB/T 19001-2008 / ISO 9001:2008.

本证书对下述范围的质量管理体系有效: *热轧槽轮、起版工具紊乱、抓斗等侧桩构件的

This certificate in valid to the following scope for QMS: *PRODUCTION OF HOT-ROLLED PULLEYS, LIPTING TACKLE & RIGGING, GRAB AND THE LIKE STREE COMPONENTS:

本证书有效额至: 2019年3月19日。 This certificate is valid ustil 10 March 2019.

2b. Ch/19901.20001909001. 2008 法证标题有效联查 2018 年 9 円 18 円。 Remarks: The confidence to CB/T19001.JB(825090001; 2005 is valid to 15 September, 2015.

注: 是附件一, Remarks: See Attachment 1.







General Manager Huang Shiyuan

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青岛海西重机有限责任公司 QINGDAO HAIXI HEAVY-DUTY MACHINERY CO.,LTD







大连华锐重工集团股份有限公司 DALIAN HUARUI HEAVY INDUSTRY GROUP CO.,LTD.







南京港机重工制造有限公司(南京港口机械厂)

Nanjing Port-Machinery & Heavy-Industry Manufacture Co., Ltd (Nanjing port machinery plant)

















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