

DONPCRANES

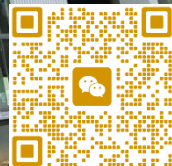


**Explosion-Proof
Crane**

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DONPCRANES 东普起重



DONPCRANES

Brief Instruction

DONPCRANES was founded in 2009, with its administrative and sales centers located in Shanghai. Its production and manufacturing bases are located in Changzhou and Yancheng, Jiangsu Province, with convenient and fast transportation. It covers a total area of 110 acres. DONPCRANES mainly adheres to and continues the advanced technology and manufacturing process of European material handling equipment, focusing on the technical research and development, innovation, and update of European material handling equipment and its supporting equipment, as well as the manufacturing of products Assembly and sales.





No. **01**

What's Explosion-Proof



Typical application of Ex-proof Crane

Offshore Platforms (Oil & Gas)

Oil Refineries

Chemical Plants

Waste Water Treatment

Paint Shops

Gas Power Plants

Printing

Explosion proof technology based on
European Standards (CENELEC)

Explosion-proof
symbol (ISO)

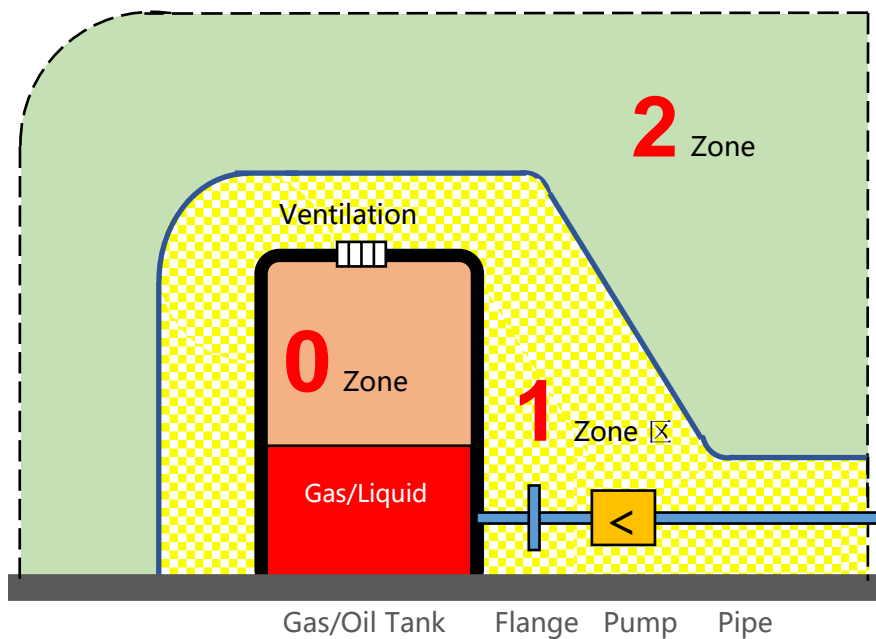


Standards

EN 50 014 - EN 50 020 / IEC60079 / GB3836

Hazardous Area

Hazardous area according to IEC 79-10



0 Zone : >1000hour/year

Explosion atmosphere is CONSTANTLY present

1 Zone : 10~1000hour/year

Explosion atmosphere is OCCASIONALLY present

2 Zone : 0.1~10hour/year

Explosion atmosphere is SHELDOM/SHORTLY present

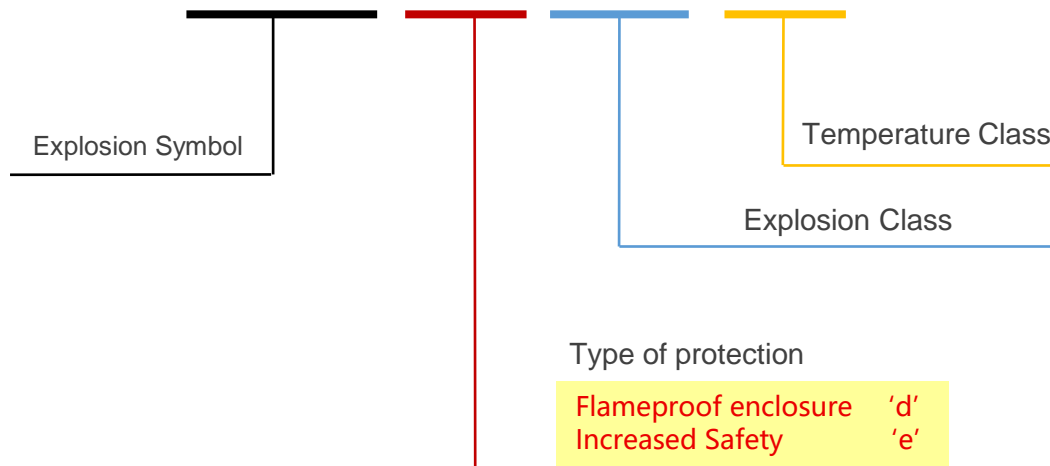
Our products meet the requirements
of Zone 1 and Zone 2

Make materials handling more easy and safe.



DONPCRANES

EEx de IIB T4



Ex-proof class code

Our delivery scope

dIIBT4

Our default class

eIIBT4

>30% Optional class

IIBT4 / eIIBT4

>50% Optional class

Type of protection

d
Default type

e
Optional type

Nr	Type	Code	Protection Method
1	Flame-proof	d	Flame enclosure for contactor, transformers, etc.
2	Increased safety	e	Spark-proof, bronze hook and wheel, etc.
3	本安型	ia	限制点火源的能量
4	本安型	ib	
5	正压型	px,py,pz	危险物质与点火源隔离
6	充油型	o	
7	充砂型	q	
8	无火花型	na,nl,nc,nr,nz	设法防止产生点火源
9	浇封型	ma,mb	
10	气密型	h	



No. **02**

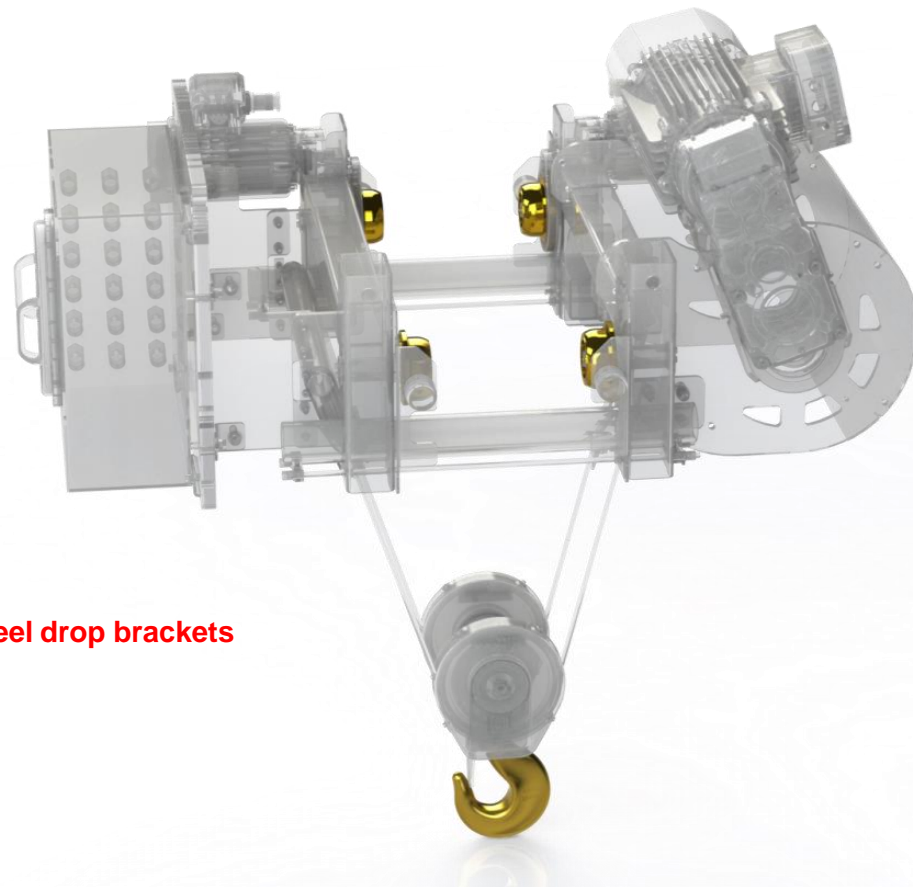
Explosion-Proof Hbist Introduction

Spark proof

No requirements in European Standards

Increased Safety “e” and IIC must be spark proof

Bronze coated hook + bronze trolley wheels and wheel drop brackets
Nilon rope guider and sheeve



Make materials handling more easy and safe.

Load and duty

Load

Max.

80t

Duty-class

M3

M4

M5

Ex-Class

dIIBT4

eIIBT4

IICT4

eIIBT4



Make materials handling more easy and safe.



KONE



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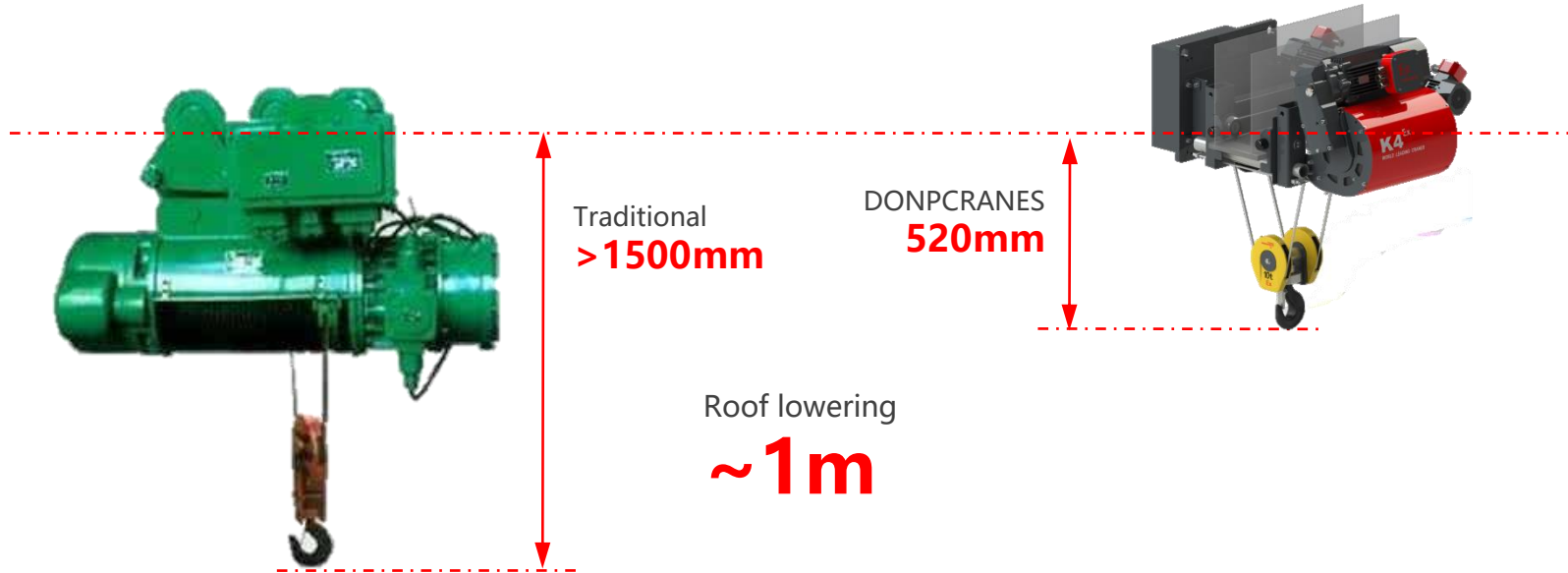
Traditional

Perfect out-looking

Make materials handling more easy and safe.

Low headroom design

Lowering roof, space saving and cost saving



Make materials handling more easy and safe.

Ex-proof power supply system

festoon system with C profile rail

Complete rubbery and round-form cable

Plastic cable trolley

2-step limit switches (Bridge and trolley)



Make materials handling more easy and safe.



Leading Design for EX.

- ◆ Low headroom
- ◆ Smart driving, higher efficiency
- ◆ 2-speed trolley
- ◆ Hardened gear
- ◆ Electromagnetic disk brake
- ◆ Heavy duty steel wire rope
- ◆ Alloy forging hook, DIN 15401
- ◆ IP65 Ex-proof Control cubicle

Make materials handling more easy and safe.



DONPCRANES



Ex-proof Motor

- ◆ Heavy duty motor
- ◆ Ex Class Up to IIC
- ◆ IP65 / H Insulation
- ◆ 60%ED rating
- ◆ Over heating protection
- ◆ Overloading protection
- ◆ Maintenance free

Make materials handling more easy and safe.

Safety Monitoring System

- ◆ Hoist safe working Period counter (SWP%)
- ◆ Lifting running time counter
- ◆ Overloading counter
- ◆ Motor starts counter
- ◆ Over heating protection
- ◆ Overloading protection
- ◆ Brake-ware supervision
- ◆ Ethernet/4G remote access



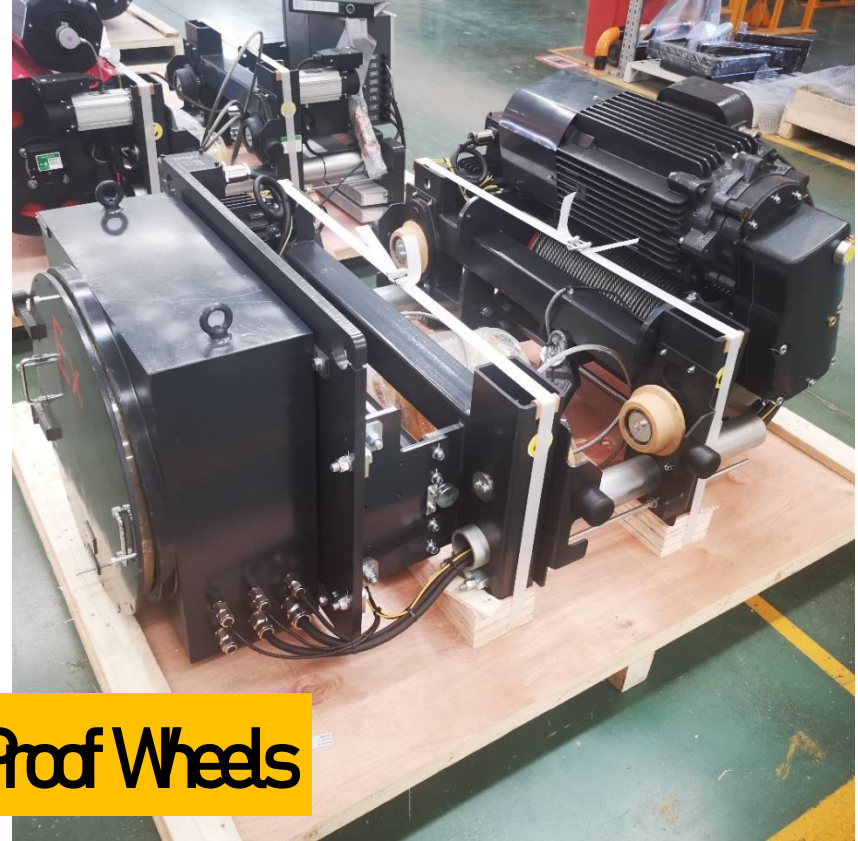
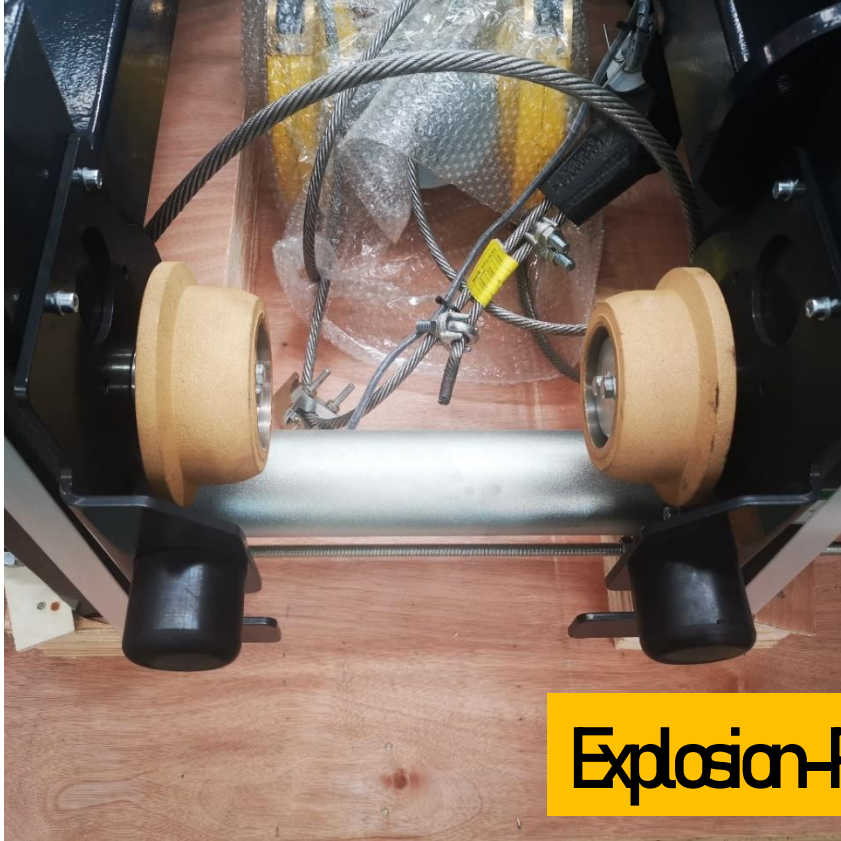
Lifting Limit Switch

- ◆ 4-steps adjustable rotation switch
- ◆ Lower, Slow-down, Upper, Top
- ◆ Phase sequence control



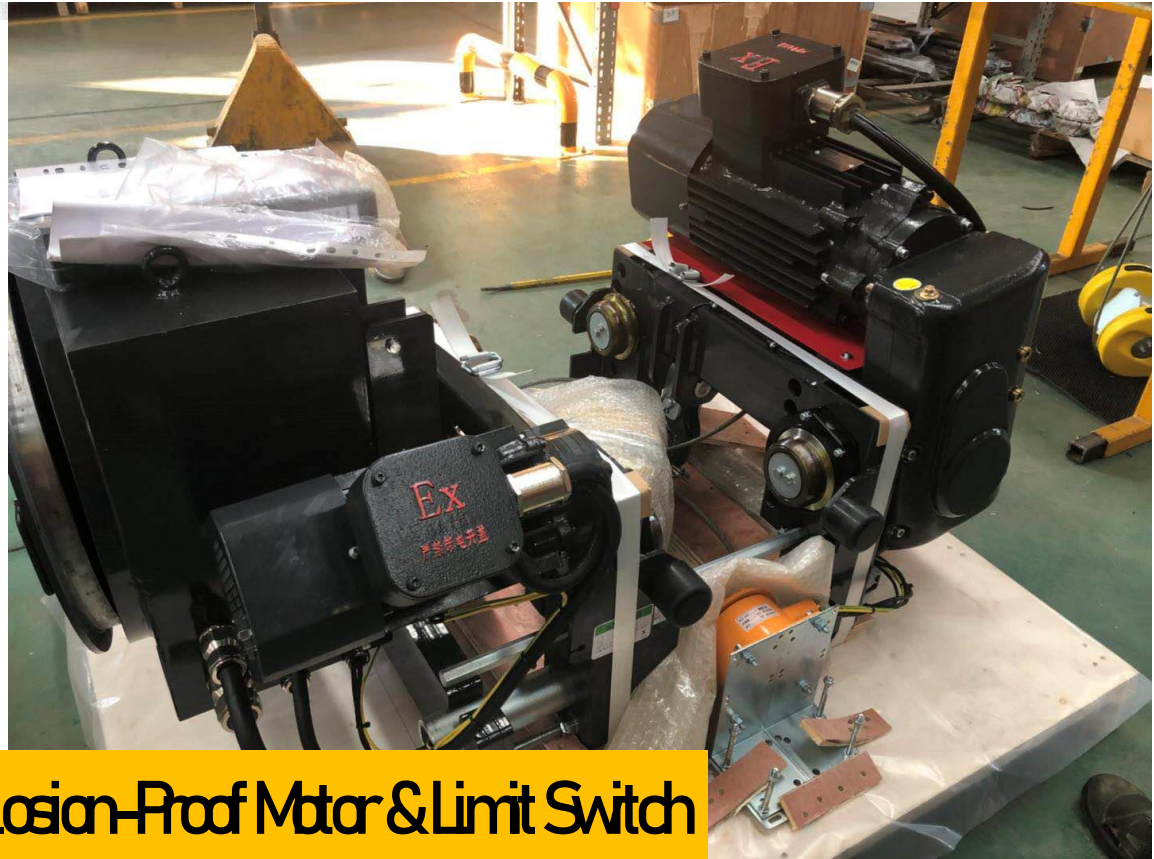


Explosion-Proof Hbist



Explosion-Proof Wheels

Make materials handling more easy and safe,



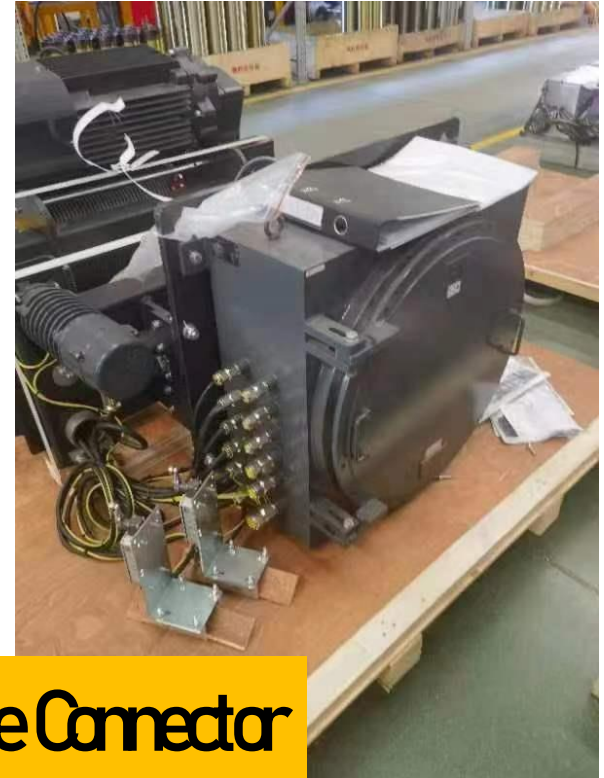
Explosion-Proof Motor & Limit Switch

Make materials handling more easy and safe.



Explosion-Proof Control Box

Make materials handling more easy and safe.



Explosion-Proof Cable Connector

Make materials handling more easy and safe,



DONPCRANES

Our Service

Priority On-call

- Spare parts
- On call service

MAKE MATERIALS HANDLING BE SAFER AND EASIER

