

# 智能安全帽及移動機械警報器實際應用

## Practical applications of Smart Helmet and Proximity Detection System of Moving Plant

### 智能安全帽 Smart Helmet

中國港灣工程有限責任公司於2020年開始應用智能安全帽及安裝移動機械警報器，提供給項目地盤工人和移動機械使用，以提升地盤安全環境及加強預防意外的發生，全力實現工人“安全上班，安全下班”的目標。

China Harbour Engineering Company Limited (CHEC) has applied Smart Helmets and Proximity Detection System of Moving Plant from a "Beeinventor" since 2020. These safety equipment were used by site workers and installed in a moving plant at site in order to enhance the site safety environment and improve the prevention of accidents. Our target is "safe work, safe get off work".



智能安全帽內置有的不同傳感器可以分別收集工友的健康狀況如心跳，體溫和工作位置。當感應到異常情況時，智能安全帽會將相關有危害人命的訊息資料上傳至網上雲端系統並發出警報，以便通知監察人員第一時間展開救援工作。此外，每個智能安全帽亦附有緊急按鈕(俗稱“救命鐘”)供給工友即時求救作用，以爭取黃金救援時間和避免失救。



Site Workers are encouraged to use the site helmets which have built-in sensors that can collect the health conditions of workers such as heartbeat, body temperature and work location. When an abnormal condition is sensed, the smart helmet will upload relevant life-threatening information to the online cloud system and send an alert to notify the monitoring personnel for carrying out rescue work as soon as possible. Furthermore, each smart helmet is also equipped with an emergency button (commonly known as a "rescue bell") to provide workers with the function of calling for help immediately, so as to gain emergency rescue golden time for saving the life.

### 移動機械警報器 Proximity Detection System of Moving Plant

智能安全帽亦可透過其定位功能與其他裝設於移動機械上的警報感應器組成“安全區域範圍”，遇上工友進入危險區域時便會觸發智能安全帽內置的警報及機械上的警報提醒雙方要注意，以防有工友進入機械操作員的盲點引致意外發生。

The smart safety helmet is able to form a "safe alarm zone" through its positioning function with the sensors of proximity detection system installed in the moving plants. A dangerous area can be delineated during moving plants in operation. In case a worker enters the dangerous area, it will trigger the alarming system built into the smart helmet and the alarming system in the sensor of the moving plant in order to alert both worker and plant operator, as such to prevent accidents caused by workers entering the blind spot of the moving plant.



接近度感應系統運作示意圖  
Schematic diagram of operation of proximity detection System

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