



Transforming the Way Mining Industry WORKS!



Traditional Methods in Maintenance @ Mining

Worst

Passive Maintenance Attitude - Reaction to Failures
brings high repair cost to mining plants.

Common

Preventive Maintenance Attitude - Scheduled or Programmed
Efficiency of maintenance management is highly crucial in this method.

WHAT's the Problem in Traditional Maintenance?

- **Lack of Continuous Health Monitoring Capability**
- **Highly Depended on Worker Experience**
- **Improper Maintenance & Higher Repair/Replace Cost**

What's More....

Uncomfortable or Dangerous Working Conditions

Wasted Input or Output Resources

Unplanned Downtime with Revenue Lost

Maximum The Performance of Your Core Equipment

What will the **UNPLANNED** downtime take to plants?



Less Revenue



High Maintenance Cost

What You Can Benefit from ALPHA PdM-plant?

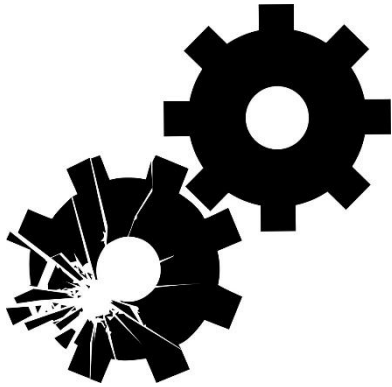


Higher Productivity & Revenue



Less Maintenance Cost

What You Can Benefit from ALPHA PdM-plant?



**Reduce Failure Rate
70% Down**



**Remote Expert Guide
Save 30% Cost**



**Less Time of Fault Removal
40% Saved**

HOW ALPHA PdM achieve Higher Plant Efficiency?



Suitable for Various Equipment

- Pumps
- Motors
- Blowers
- Fans
- Compressors
- Chillers
- Cooling Towers
- Cyclones
- Screens
- Gearboxes
- Generators



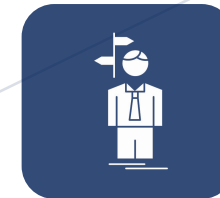
Timely Trends Monitoring & Alerts



Revenue UP Cost Down



Artificial Intelligence Machine Learning



Higher Management Efficiency



Wireless Installation & Communication



Dashboard for Mobile & Desktop

HOW ALPHA PdM achieve Higher Plant Efficiency?

Step 1 - **DATA** real-time monitoring in plants



HOW ALPHA PdM achieve Higher Plant Efficiency?

Step 2 - DATA uploaded into **ALPHA Cloud**



HOW ALPHA PdM achieve Higher Plant Efficiency?

Step 3 - **AI Analysis** Framework based on cloud-based Big Data



HOW ALPHA PdM achieve Higher Plant Efficiency?

Step 4 - Artificial Intelligence / Machine Learning

资产设备无线智能监控平台

【504产品仓末精煤配仓刮板输送机】的【尾端链条非驱动侧2791】的数据 从 2018/11/27 到 2018/12/10 [查询](#) [返回](#)



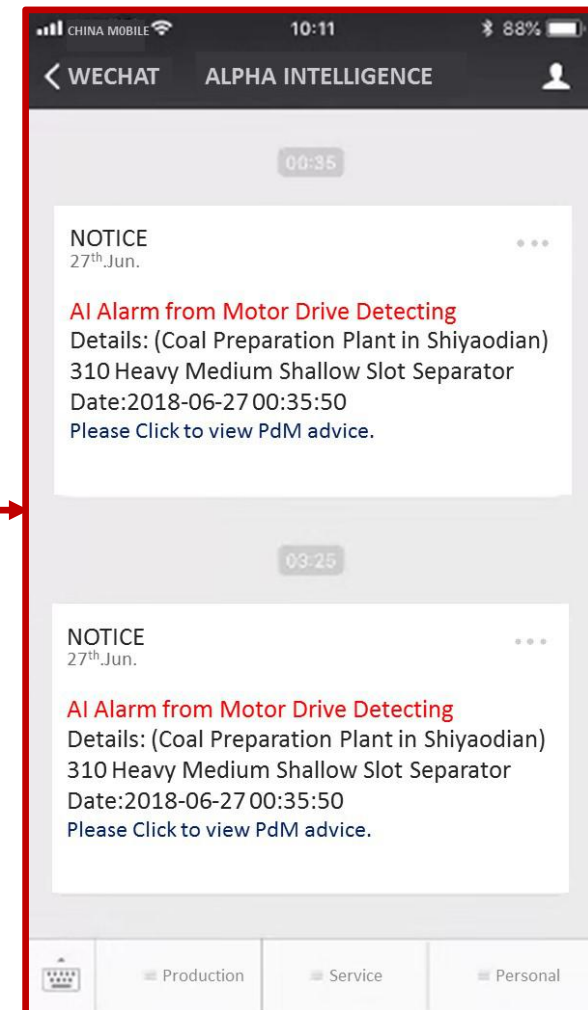
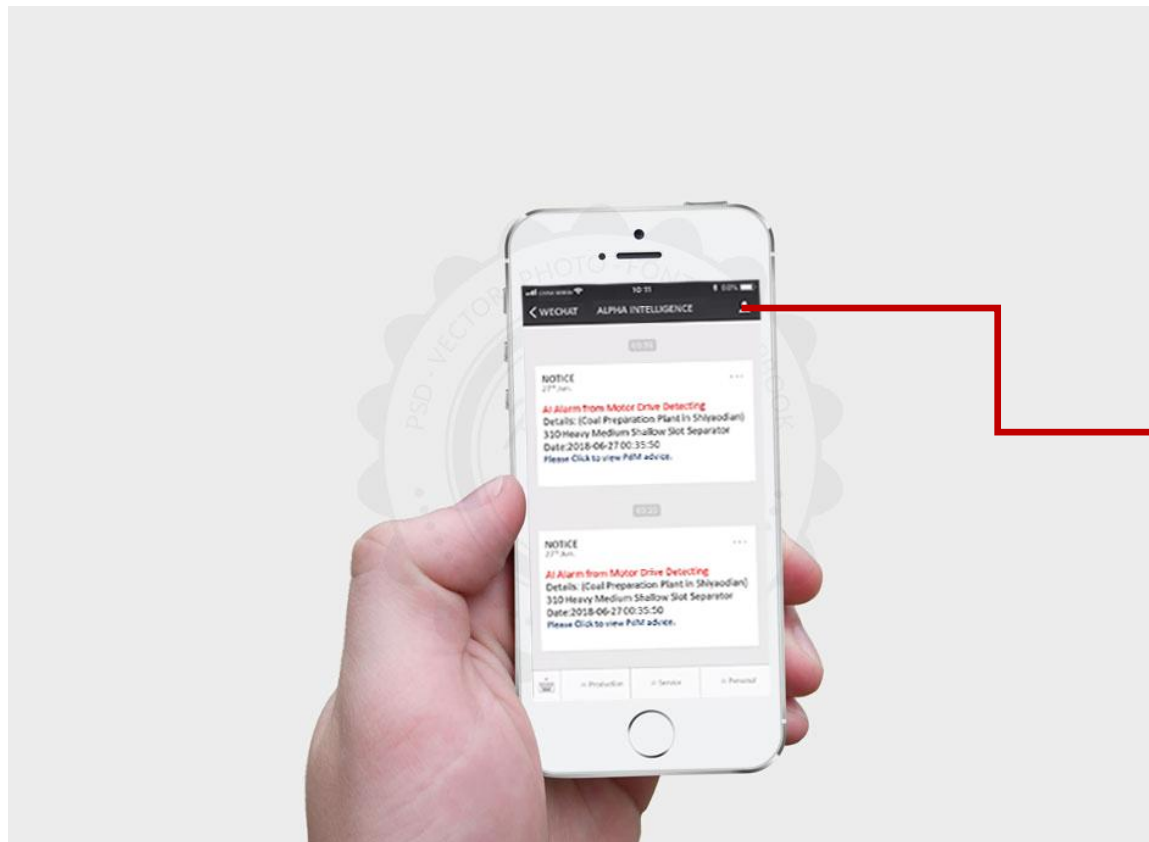
HOW ALPHA PdM achieve Higher Plant Efficiency?

Step 5 - Expert Database and Pro-support from ALPHA



HOW ALPHA PdM achieve Higher Plant Efficiency?

Step 6 - Mobile Application and Directly Notification to Maintenance Team



What ALPHA PdM Bring to Your Mine?



Optimize Management Efficiency

Visualization of the operation data and data-driven decision support can make management fleet more efficient and proactive. Enhance the connection of departments in the organization and optimize the data sharing timely and consistency.



Improve Mineral Recovery & Grade Production

Improve Mineral Recovery by balancing the variable factors in the processing plants. Based on AI framework and Big Data analysis, Predictive Maintenance brings proactive actions to your plant for guaranteeing the grade production.



Improve Technician & Sourcing Efficiency

Predictive maintenance advice of equipment failures can help with improving the cooperation between technician and sourcing department. Technician will be informed with detailed solutions from expert database and ALPHA cloud which can reduce the time cost of shooting troubles. Sourcing department can take proactive actions to make sure spare parts supply timely.



Output UP & Cost Down

Take care of your equipment in whole-life-cycle side– from conveyor to centrifuge and loaders. Get Predictive Maintenance advice from experts and ALPHA cloud to improve equipment output. Optimize Maintenance fleet to cut down cost.

Get to Know More About ALPHA Team

WHAT MAKES US DIFFERENT ?

Strong Technical Support

On-site engineers with rich experience in both domestic and overseas projects

Experts in Mining

You can have experts support and benefit from their 40+ years experience in mining, CHPP and mineral processing.

Custom-built Solutions

You can get custom-built PdM solutions for your plant, which can match and meet all your requirements, and bring you higher ROI.

Cayman

HongKong

Chengdu

Sydney

Kitwe

Transforming the Way Mining Industry WORKS!

THANK YOU!



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