



OKS and MASA:
the Next-Generation Smart Control Products
Make the air separation system safer, more efficient and
energy-saving

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盈德工程
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Industry Challenges

Currently, traditional air separation unit (ASU) operations are facing with multiple challenges such as low efficiency and high costs. For example, manual startup procedures are cumbersome, requiring multiple personnel and posing high risks of operational errors. The ASU also lacks adaptability to changing conditions, responding slowly and struggling to flexibly handle load fluctuations and off-peak production. Furthermore, declining oxygen-argon extraction rates have resulted in reduced corporate profits.

Next-Generation Smart Control Products

Yingde Engineering has independently developed smart control products for ASUs, which have low investment, fast commissioning and stable operation, and significantly improve operation efficiency and safety.

OKS (One-Key Start)



Easy operation:

With just one click, startup time is halved, ensuring safety and efficiency while reducing staffing requirements.



Multi-mode compatibility:

Supports multiple operation modes such as cold, hot, and heating start-ups with modular design compatible with various devices.



System convenience:

The intuitive interface and visual parameters enable seamless integration with various intelligent control systems, allowing instant installation and zero downtime upgrades.



Quick deployment:

No hardware modification required. The quickest deployment can be achieved in 14 days.

MASA (Automatic Load Adjustment)



Wide range of operating conditions:

Adapting to variable load demands in industries such as non-ferrous metals and steel. It ensures efficient and automated operation of air separation under 40%-110% load conditions, reducing operational risks.



Leading performance:

Compared with other automatic control products, the variable load speed is increased to 1%/2 minutes, the argon extraction rate is increased by 3%, and the venting volume is significantly reduced.



Significant benefits:

Over 1 million in revenue, with a return on investment period less than 2 years – earn while you operate.

OKS application cases:

Yunnan Copper 80,000 Nm³/h – grade ASU, Jinchuan 50,000 Nm³/h ASU, Laiwu Yingde.....

— Full-process startup with visualized operation interface. More stable and secure.



MASA application cases:

Huaibei Yingde, Xianning Yingde, Zhuhai Yingde.....

— Reduce staffing and operational risks. Energy saving and efficiency to create a million revenue.



More intelligent products to create advanced smart ASU

Yingde Engineering has been a pioneer in intelligent ASU system development. Beyond these two smart products, the company has introduced a range of innovative solutions including automated liquid filling, remote configuration, unmanned operation, and black screen technology. With continuous R&D in energy saving technologies and intelligent control systems, Yingde Engineering is committed to developing advanced smart gas supply systems. This technological leap enables customers to significantly reduce production costs and enhance overall operational efficiency.

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