

# Compressor Energy Saving Upgrade



## Energy Saving Upgrade Customer Value

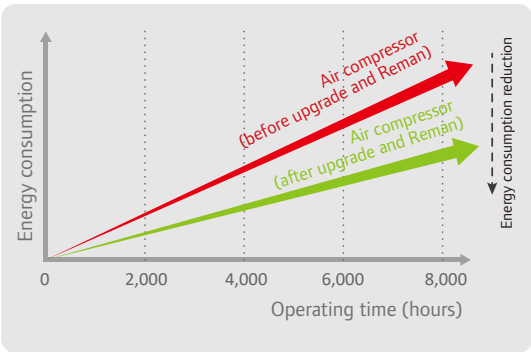
- Energy efficiency improvement, significantly reducing operating costs
- Original design, genuine spare parts, quality assurance
- Simultaneous compressor upgrade and maintenance
- Fixed price, fixed budget, avoiding additional cost charges



# Energy Cost Comparison Before and After Energy Saving Upgrade

Based on customer needs and the principles of green energy conservation and sustainable development, Ingersoll Rand has introduced customized air compressor energy saving upgrade solutions for customers whose production capacity and operating conditions have changed or whose units have entered a maintenance cycle. This involves simultaneous maintenance and upgrading of the units, extending their lifecycle while improving energy efficiency and reliability and significantly reducing operating costs.

After energy saving upgrade, the overall energy efficiency of the unit can be increased by **10%-15%** and in some cases, even up to **20%**, with a return on investment period of less than 2 years.



## Energy Saving Upgrade Business Scope and Applicable Model

Standard business scope: Ingersoll Rand M110-250/R110-160 oil-injected screw air compressors\*

<b>Energy Saving Upgrade Product Solution A</b> <ul style="list-style-type: none"><li>Focusing on reducing energy consumption</li><li>Equivalent airflow</li></ul>	<b>Upgrade Proposal</b>		
	Original air compressor	Reman plan	After upgrade and Reman
	Single-stage airend	Exchange	High-efficiency single-stage/dual-stage airend
	Main motor	Maintenance	Original motor
	Gearbox & gear set	Exchange	Matching gearbox & gear set
	Three filters & oil	Exchange	Exchange with new ones
	Other components	Reman & maintenance	Original parts & new parts
<b>Energy Saving Upgrade Product Solution B</b> <ul style="list-style-type: none"><li>Focusing on maximizing energy consumption reduction</li><li>Equivalent airflow</li></ul>	<b>Upgrade Proposal</b>		
	Original air compressor	Reman plan	After upgrade and Reman
	Single-stage airend	Exchange	High-efficiency single-stage/dual-stage airend
	Main motor	Exchange	Energy saving motor
	Gearbox & gear set	Exchange	Matching gearbox & gear set
	Three filters & oil	Exchange	Exchange with new ones
	Other components	Reman & maintenance	Original parts & new parts
<b>Energy Saving Upgrade Product Solution C</b> <ul style="list-style-type: none"><li>Focusing on increasing gas airflow</li><li>Slight reduction in unit energy consumption</li></ul>	<b>Upgrade Proposal</b>		
	Original air compressor	Reman plan	After upgrade and Reman
	Single-stage airend	Exchange	High-efficiency single-stage/dual-stage airend
	Main motor	Exchange	Energy saving motor
	Gearbox & gear set	Exchange	Matching gearbox & gear set
	Three filters & oil	Exchange	Exchange with new ones
	Other components	Reman & maintenance	Original parts & new parts

### Energy Saving Upgrade (M110)



\*For upgrades and Reman of other models, please consult the local Ingersoll Rand sales and service center



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