



J-Version Upgrade for Jenbacher Type 6 gas engines

Conversion, Modification & Upgrade

Product description

INNIO*'s J-version gas exchange and combustion technology upgrade reduces fuel gas consumption and eliminates low-temperature heat rejection losses by boosting the electrical or total efficiency of your Jenbacher* Type 6 gas engines.

Product details

The upgrade package for Type 6 F-version units includes a variety of enhancements that are best applied during a minor or major overhaul:

- **New camshaft design**
- **Modified valve train components**
- **Enhanced pre-combustion chamber**
- **Steel piston** with increased compression ratio
- Exchanged or modified **turbochargers**
- **Latest intercooler** (only for hot/tropical climate versions such as F101)
- **OEM documentation update**
- **Optional features:**
 - Upgrade to **new cylinder head design**
 - Retrofit to **latest blow-by filter system**

Note: This upgrade package is also available for Jenbacher Type 6 E-version gas engines as customized upgrade with the retrofit scope determined on a case-by-case basis. The extended bundle of enhancements is best applied during a major overhaul at one of INNIO's Overhaul Center of Excellence (COE) locations.

Customer benefits

- **Reduced fuel gas consumption**
Through improved electrical efficiency, the upgrade results in up to 4% decrease in fuel gas consumption.
- **Higher electrical efficiency**
Design enhancements translate to an up to 1.9% points increase in higher electrical efficiency.
- **Extended service intervals**
The enhanced intercooler (hot/tropical climate versions only), pre-combustion chamber and blow-by system all work together to significantly increase service intervals.
- **Lower life cycle costs and increased uptime**
The design improvements that provide extended service intervals mean substantially lower life cycle costs and more unit uptime.

Enhanced total efficiency

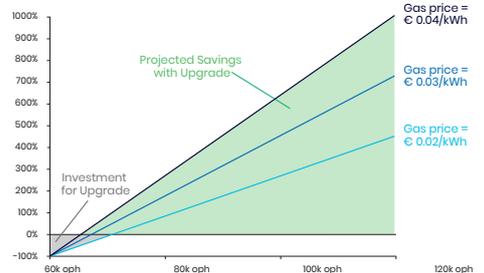
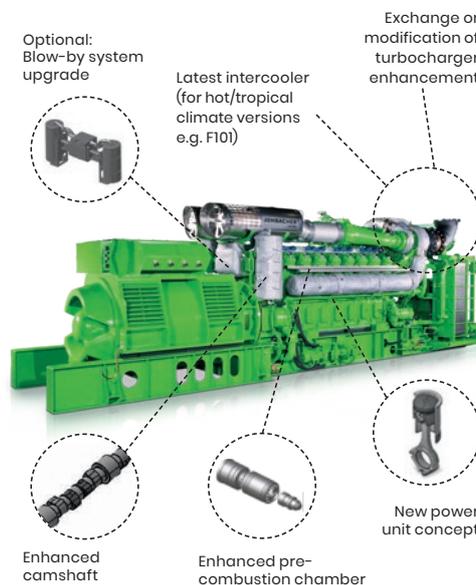
Cogeneration plants (such as J620 version F01 to J620 version J605) can realize up to 4% points improvement in total efficiency with nearly unchanged electrical efficiency.

Note: Overall benefits can vary based on site-specific boundary conditions such as the ambient environment and gas quality.

Applicable units

Type 2		Type 4	
Type 3		Type 6**	✓

** Product applicable to all Jenbacher Type 6 F-version gas engines. Upgrade also applies to Jenbacher Type 6 E-version units, but must be handled as a customized upgrade request.



Return on Investment (ROI) of package applied during major overhaul at 60,000 oph for Jenbacher J620 F-version gas engine for hot country ambient with methane number (MN) >75



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