



B-Version Upgrade for Jenbacher Type 4 gas engines

Conversion, Modification & Upgrade

Product description

Upgrading your Jenbacher* Type 4A gas engine to the latest B version technology for gas mixture distribution, combustion and knock control can offer greater uptime, reliability and performance.

Product details

The B-version upgrade packages, available in light and full versions, include a variety of enhancements as well as optional features.

Light Package

This reduced bundle of measures can be applied during any scheduled service:

- **Enhanced piston concept** with modified piston shape and piston rings**
- Cylinder head with **enhanced mixture intake** flow
- **Improved knock control logic**
- **New blow-by system**
- **OEM documentation update**

Full Package

The complete bundle of measures, ideally applies during a minor or major overhaul:

- **Enhanced piston concept** with modified piston shape and piston rings**
- **Enhanced gas mixture manifold**
- Cylinder head with **enhanced mixture intake** flow suitable for new suction manifold
- **Improved knock control logic**
- **New blow-by system**
- **OEM documentation update**

Optional:

- Power boost – up to 5% output increase. Requires ignition system upgrade, turbocharger check, engine settings update
- Advanced air filter concept

Enhanced engine performance

More stable engine performance can be achieved over the life of the unit under varying fuel gas and ambient conditions.

Additional power feed-in

When an output increase is feasible, up to 5% boost in nominal power output can be obtained.

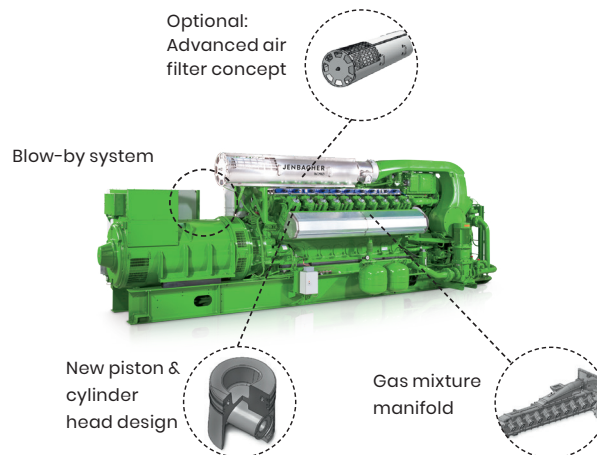
Customer benefits

- **Increased uptime**
Provides up to 1.5% more operating hours annually, based on current fleet analytics.
- **Lower life cycle costs**
- Improved piston ring and blow-by system designs lower oil consumption by up to 50%, can reduce combustion chamber deposit formation, and decrease oil carry-over to the turbocharger and intercooler.
- Enhanced control algorithms, better mixture distribution to the cylinders, and improved piston and cylinder head designs provide increased resistance to combustion chamber deposits.
- Advanced blow-by and air filter concepts provide extended service intervals.

Applicable units

Type 2		Type 4***	✓
Type 3		Type 6	

** This enhancement – introduced in the second quarter of 2010 for all Type 4 engines – completely replaced the previous piston version. The new piston concept has been applied to some engines during previous minor/major overhauls
*** Power boost only applies to certain versions, operational conditions and fuel gas qualities



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