

JENBACHER

LIKE NEW.

INNIO* is a leading solutions provider of gas engines, power equipment, a digital platform and related services for power generation and gas compression at or near the point of use. With our Jenbacher* and Waukesha* product brands, INNIO pushes beyond the possible and looks boldly toward tomorrow. Our diverse portfolio of reliable, economical and sustainable industrial gas engines generates 200 kW to 10 MW of power for numerous industries globally. We can provide life cycle support to the more than 48,000 delivered gas engines worldwide. And, backed by our service network in more than 100 countries, INNIO connects with you locally for rapid response to your service needs. Headquartered in Jenbach, Austria, the business also has primary operations in Welland, Ontario, Canada, and Waukesha, Wisconsin, US.

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LEAVE IT TO THE EXPERTS
WHO BUILT YOUR ENGINE!



Jenbacher reUp spare parts from
the experts who built your engine



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LIKE NEW JENBACHER reUp SPARE PARTS

PROVEN OEM QUALITY AND EXPERIENCE DELIVERED
WITH A SMALLER ENVIRONMENTAL IMPACT

As the experts who built your Jenbacher* gas engines, INNIO* understands that uptime is everything. That's why our reUp program offers only remanufactured parts that meet our exact standards and specifications. With reUp parts, we keep your Jenbacher engines running smoothly, at lower operating costs and with a much smaller environmental impact than new parts.

INNIO's Jenbacher remanufacturing at a glance:

3 remanufacturing sites
and **7 logistic centers** to support your needs

200,000+ cylinder heads
and **10,000 water/oil pumps** remanufactured during the last decade

10,200 tons of material saved over the last 10 years through remanufacturing

MORE THAN JUST REMANUFACTURED PARTS



Increased Uptime

- ✓ Upfront delivery of reUp parts before you return your core parts
- ✓ Fast return to service



Lower Operating Costs

- ✓ Cost savings achieved through reuse of core parts
- ✓ Improved total cost of ownership with same performance and lifetime expectation as new parts



Maintaining high reliability levels

- ✓ Holistic and systematic remanufacturing engineering process
- ✓ Accurately remanufactured to original or evolutionary specifications



Delivering quality and OEM capability

- ✓ Remanufactured and tested to INNIO's factory-quality standards and specifications
- ✓ Same factory warranty as for new parts



Reducing the environmental footprint

- ✓ Reuse of material through refurbishing parts
- ✓ Resources saved as your parts are given a new life

CHOOSE FROM OUR JENBACHER reUp SPARE PARTS PORTFOLIO

INNIO's Jenbacher reUp spare parts help ensure your plant's availability and productivity throughout your equipment's lifetime. That means lower operating costs and less unplanned downtime—all covered by the same warranty you get with new Jenbacher OEM parts. All of the parts in our reUp spare parts portfolio are fully remanufactured, not just rebuilt.

	JENBACHER TYPE 2	JENBACHER TYPE 3	JENBACHER TYPE 4	JENBACHER TYPE 6
Cylinder heads	✓	✓	✓	✓
TecJet** ¹	✓	✓	✓	✓
Water pumps ²	✓	✓		✓
Lube oil pumps ³	✓	✓		✓
Connecting rods		✓	✓	
Steel pistons				✓
Pre-chamber gas valves				✓

MINOR OVERHAUL JENBACHER reUp KIT

In addition to our reUp spare parts portfolio, INNIO offers a minor overhaul reUp kit—typically applied at 20,000 or 30,000 operating hours, depending on the maintenance schedule. Unique to Jenbacher Type 3 or 4 gas engines, our minor overhaul reUp kit offers a mix of remanufactured parts—such as reUp cylinder heads, reUp connecting rods, and a reUp water pump—along with new Jenbacher OEM parts.

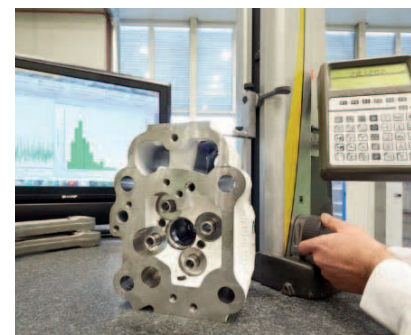
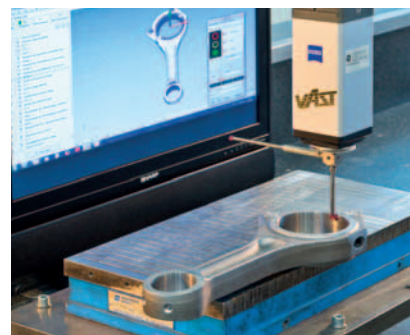


► Ask for a detailed offering for your engine.

¹ Electronic gas metering valve

² reUp water pumps (only mechanical driven) available for J208, Type 3 B- and C-version, Type 6 C-versions

³ reUp lube oil pumps available on request for Jenbacher Type 4 engines



ABOUT INNIO'S REMANUFACTURING PROCESS

REFURBISHED PARTS REMANUFACTURED BY THE EXPERTS WHO BUILD YOUR ENGINE



It's vital that our reUp parts work effectively with other OEM connected parts to increase performance and decrease wear. That's why our experienced engineers remanufacture and thoroughly inspect and test all reUp parts to make sure they meet INNIO's exact standards and specifications.

HOW IT WORKS FOR SPECIFIC reUp PARTS

Cylinder heads

- ✓ Smart process uses combination of new and remanufactured Jenbacher OEM parts to deliver cylinder heads that are re-qualified for a full new lifecycle.
- ✓ New components include valves, valve guides, valve rotators, seat rings, springs, o-rings, and gaskets.
- ✓ Core is re-machined to new parts tolerances/specifications to enable exact valve guide, seat ring concentricity, and uncompromised seal at the fire deck.

TecJet**

- ✓ Bearings, seals, gaskets, and o-rings are replaced.
- ✓ Throttle valve and leakage tests are performed to help ensure smooth and safe operation.
- ✓ TecJet is re-qualified for a full new lifecycle.

Pumps & conrods

- ✓ Pumps are overhauled and equipped with new bearings, shaft, gears, o-rings, and sealings.
- ✓ Conrods are re-qualified for a full new lifecycle and equipped with new small end pushing and bolts.

Steel pistons

- ✓ Pistons crown are visually inspected for wear marks and material deposits.
- ✓ Oil drain bore top groove is machined to prevent oil coking.
- ✓ Piston grooves are carefully inspected and cleaned.
- ✓ Dimensions of piston pin bore and coating of piston skirt are checked.

Pre-chamber gas valves

- ✓ Every pre-chamber gas valve is fully tested with analysis performed on opening/closing behavior, valve flow, and valve and system leakage.
- ✓ Pre-chamber gas valves are re-qualified for a full new lifecycle.

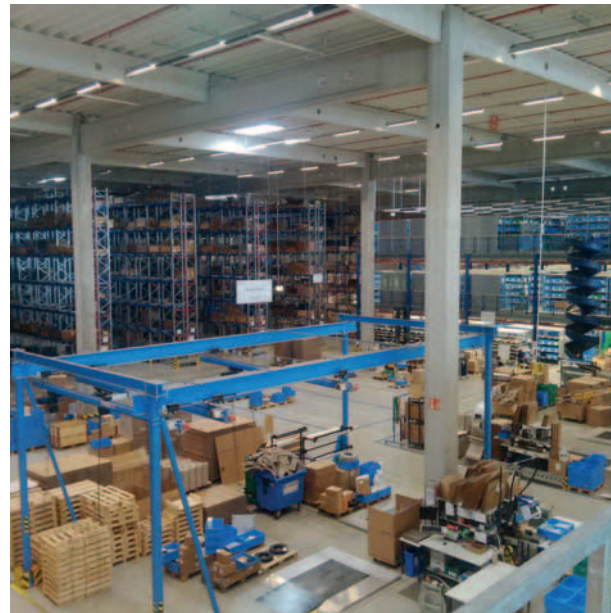
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INNIO'S REMANUFACTURING SITES & LOGISTIC CENTERS

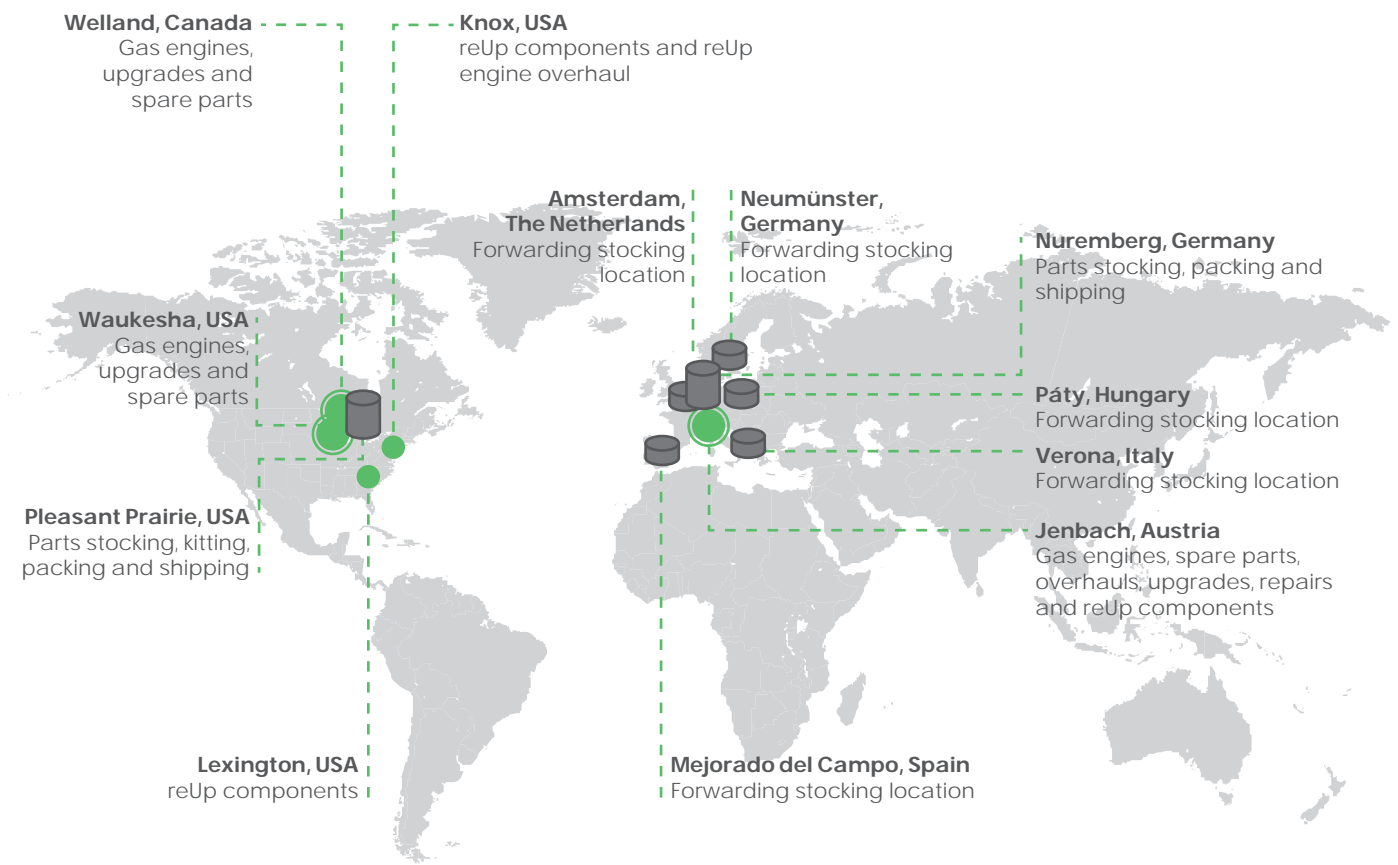
INNIO operates three main remanufacturing sites for our Jenbacher and Waukesha* spare parts. All of our reUp facilities are equipped with the latest available equipment for remanufacturing—including CNC machines, 3-D measurement equipment, and dyno test equipment—to help ensure that each of our reUp parts meets INNIO's exact, high-quality OEM standards and specifications. That's why we are able to provide the same factory warranty on all Jenbacher and Waukesha reUp spare parts as for new OEM parts.



INNIO's global distribution network provides a sophisticated spare parts network consisting of two main and several regional logistic centers dedicated to Jenbacher and Waukesha spare parts and reUp parts supply. The two main INNIO spare parts logistic facilities in Nuremberg, Germany and Pleasant Prairie, WI, USA comprise more than 290,000 square feet (27,541 square meters) and incorporate warehousing, technical inspections, repacking, and reverse logistics for fast global shipping.



TODAY'S LANDSCAPE OF INNIO'S MANUFACTURING & DISTRIBUTION CAPABILITIES



-  Main Operating Site
-  Remanufactured Parts
-  Logistic Center
-  Forwarding Stocking Location



OUR EXCHANGE PROGRAM—HOW TO RETURN YOUR REPLACED CORE PARTS

The exchange works as a charge system. Exchange parts assembled and delivered by INNIO's Jenbacher Overhaul Technology Center replace your original parts on site. Each exchange part carries a deposit, which is credited once the former part is returned.

To receive your exchange program deposit refund, you must return your replaced core parts to INNIO within six months after reUp parts arrival. You can easily use the boxes from your reUp core parts to pack and return your used core parts.

Note: If the returned core part is incomplete, excessively damaged, cracked, welded, corroded, mechanically machined, or a non-OEM core, you will be charged.