

# RELIABLE, DURABLE AND EASY TO HANDLE: THE JENBACHER P611 SPARK PLUG

For your Type 6 and 9 engines

Availability counts. To stay ahead, your asset's life-cycle operations must continue to improve. The key: longer-lasting parts and consumables and more reliable plant performance paired with cost efficiencies. With INNIO Group—your Jenbacher system's original equipment manufacturer (OEM)—you get a partner whose high-quality products are designed to improve your system. That is why we continually develop our Jenbacher spark plugs for better reliability, longer service life, and easy maintenance.

## Product description

Thanks to its advanced design and our many years of experience in the production of high-performance spark plugs, the P611 stands for longer lifetime.

This OEM product is manufactured in our inhouse spark plug production facility in Kapfenberg, Austria. Because our spark plug portfolio is developed in compliance with technical regulations for compatibility with your Jenbacher engines, it helps support engine emission and efficiency specifications.



P611 spark plug



P611 enhanced  
electrode configuration

## Product details

### Robust and improved ignition performance

Advanced geometry enables better temperature control for reduced electrode surfaces wear.

### Uniform burn-off

Featuring extreme dimensional accuracy, the annular gap helps ensure exceptionally uniform burn-off of the electrode surfaces.

### Lower exhaust emissions

The advanced design effectively avoids misfiring, enabling decreased exhaust emissions, such as 250 and 500 mg NO<sub>x</sub>/Nm<sup>3</sup>.

## Customer benefits

### Longer service life

Better efficiency leads to significantly longer lifetime and less exchange intervals downtime.

### Simplified handling

No “re-gapping” of the spark plug is necessary and therefore no additional engine shutdown.

### Remote monitoring by myPlant

In combination with INNIO Group’s myPlant Asset Performance Management remote monitoring, you get accurate remaining lifetime predictions for your Jenbacher spark plugs. This allows you to precisely plan your maintenance work.

### After-sales support

Our Jenbacher team is there for you with professional and fast technical after-sales support as well as fast delivery times.

## Applicability

The P611 spark plug can be used with all engine versions of the Jenbacher Type 6 and 9 engines including special gases.

### Applicable for all Type 6/9 engine versions

	Pipeline gas	Biogas	Special gases <sup>1</sup>
Type 6	X	X	X
J624	X		X
J920	X		

<sup>1</sup> Sewage gas/landfill gas, coal mine gas

### Rely on the OEM’s extensive experience

As the experts who developed your Jenbacher energy systems, INNIO Group understands that uptime is everything. That’s why it’s vital that our OEM-connected parts give you long service life, increased performance and decreased engine wear.

Like all of our product developments, the Jenbacher P611 spark plug went through rigorous evaluation during our design process to determine its impact on each component.

Today, we service our fleet with this proven spark plug technology of about 6,700 delivered Type 6 engines.

See on the next pages how the P611 is helping our customers, but note that in the following references, “lifetime” is dependent on specific engine versions and boundary conditions.

## INNIO Group’s Jenbacher Spark Plug strength

- Inhouse spark plug production facility with advanced laser welding technology in Kapfenberg, Austria
- More than several hundred thousand spark plugs are delivered per year
- Developed through continuous feedback from our customers and our engine experts
- Meeting INNIO Group’s high quality standards and processes for reliability

# CASES IN POINT – SOLVING YOUR CHALLENGES

## Sampedro Energia in Lordelo, Portugal

Sampedro, a leading textile company in Portugal, is running a J624 Jenbacher H-version engines at their cogeneration facility Sampedro Energia. The engines are providing steam and hot water for the production process, while producing 4.4 MW/H of energy for the national power grid. At the plant, Jenbacher P611 spark plugs have reached about 4,500 operating hours since July 2018. With a design load higher than 24 BMEP and a maximum voltage level under 26 kV, the spark plugs are still successfully in use.



## Key Technical Data

Engine type	1 x J624 H-version
Electrical output	4,400 kW
Thermal output	2,113 kW
Energy source	Pipeline gas
Commissioning	Plant: 2012 P611: 2018

»We are very happy with the P611 spark plugs. The high reliability level and no need for regular maintenance facilitates our plant operations.«

Antonio Amaro Ribeiro,  
Plant Manager of Sampedro Energia



## Lucky Energy in Kathore (Sindh), Pakistan

Orient Energy Systems, an INNIO Group distributor for Jenbacher engines, has been using Jenbacher P611 spark plugs at Pakistan’s “Lucky Energy” textile mill industrial plant. Since its commissioning at the site in 2017, a Jenbacher J624 H-version generator set with a design load of 24 bar BMEP has been operating at constant loads between 3,600 kW and 4,000 kW.



### Key Technical Data

Engine type	1 x J624 H-version
Electrical output	4,400 kW
Thermal output	-
Energy source	Pipeline gas
Commissioning	Plant: 2017 P611: 2018

»We are very satisfied with the P611 spark plugs, which have been running for around 24,000<sup>2</sup> operating hours in total, with a replacement made at every 5,000+ operating hours. For us, the benefit of P611’s longer life-time reduces our costs per operating hour.«

Adnan Mazhar,  
Director at Lucky Energy

<sup>2</sup> Around 24,000 are cumulative operating hours which were achieved till end of July 2022, with a replacement made at every 5,000+ operating hours.



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A sustainable solution  
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