

## References

Spanner wood cogeneration plants have proved themselves already a hundred times over many years of continuous and for various applications such as agriculture, forestry and local heating networks.



Pig breeder, Landshut, Bavaria,  
300 breeding sows, 1,200 sqm barn area



Wood processing company, Landshut, Bavaria,  
processing between 1,000 and 1,500 cubic meter  
of wood



Local heating operator, Ebersberg, Bavaria, net-  
work length of 870 m, supplies 13 commercial op-  
erations and 27 private households



Spanner Re<sup>2</sup>



## Spanner wood cogeneration plants Electricity and heat generated from wood

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## Product use

Spanner wood cogeneration plants generate electricity and heat from natural wood chips. Especially for users with a high demand for electricity and heat, wood cogeneration plants are an economic way to supply energy and is, of course, good for the environment.

- + Highly efficient use of wood energy through the cogeneration of heat and electricity
- + Operation with cost-efficient, natural wood chips
- + Savings thanks to the self-provision of electricity
- + Revenues from power input

## Company profile

The **Spanner Re<sup>2</sup> GmbH** is the leading manufacturer of small, decentralized wood cogeneration plants. The plants have already been tried and tested a hundred times all across Europe. In addition, the company produces several thousand biomass heating systems every year and offers complete systems for the drying of wood chips. The Spanner Re2 GmbH is part of the Spanner Group, an owner-operated group of companies with over 400 employees.

## The Spanner wood cogeneration plant

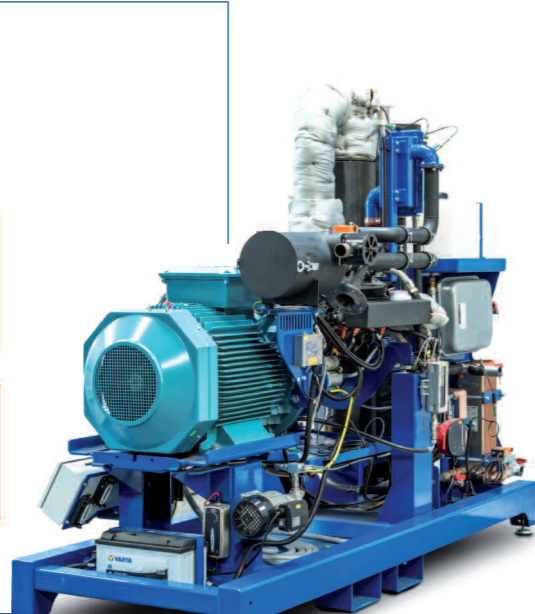
The Spanner wood cogeneration plant consists of the Spanner wood gasifier and the Spanner combined heat and power unit (CHP).

The Spanner wood gasifier is based on a process designed by the inventor Bernd Joos. The heart of the plant, the so-called reformer, produces in a controlled process

pure wood gas from natural wood chips. The CHP is operated with the wood gas. The heat generated during the process can be used for the heating of buildings, for drying plants or local heating systems. The generated electricity will preferably be consumed by the owner or fed into the network and then be paid for.

### Wood gas CHP

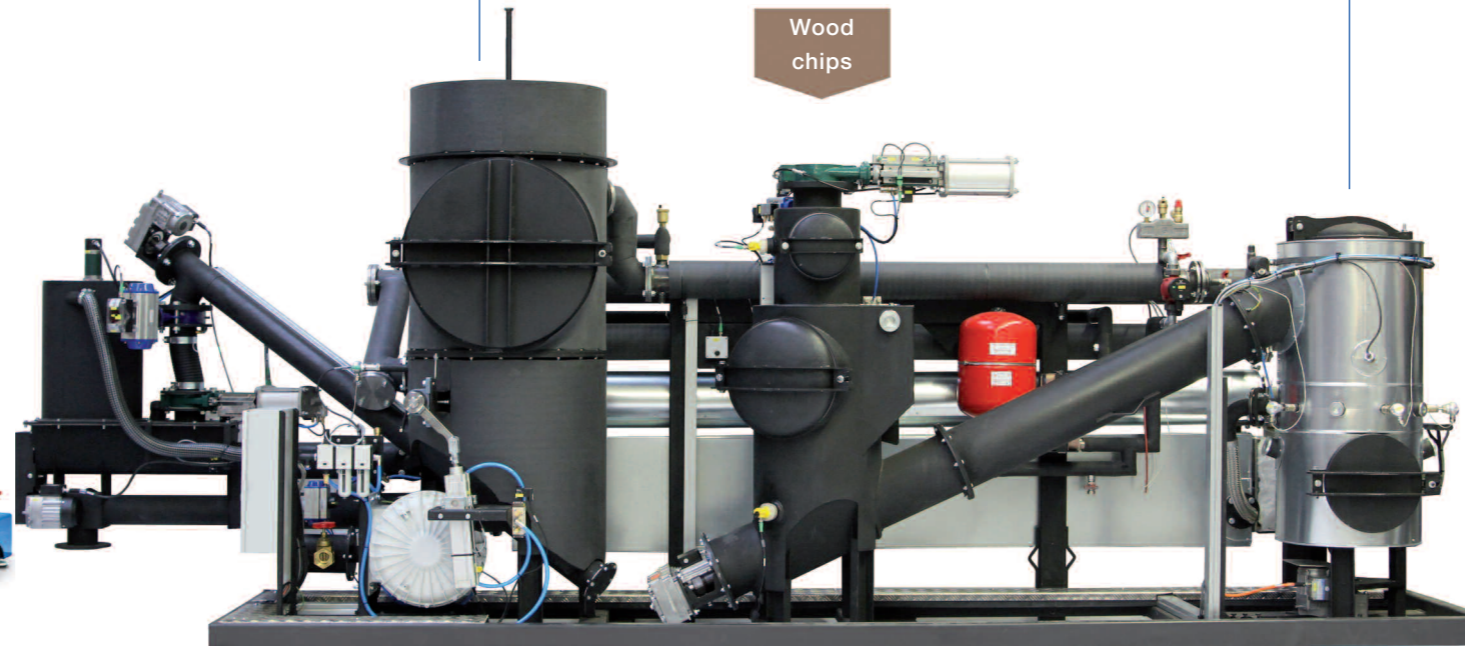
Robust motor, powerful generator, highly-efficient cogeneration of heat and power



Spanner wood gas CHP

### Wood gas filter

with integrated self-cleaning



Wood chips

### Reformer

Compact fire-bed including temperature monitoring for a controlled wood gas generation

## The Spanner wood cogeneration plant

### Technical data:

Name of model	HK 30	HK 45
Electrical power	30 kW	45 kW
Heat power	73 kW	108 kW
Wood chip consumption*	30 kg/h	45 kg/h
Wood chip consumption* for 7,000 operating hours	180 t <sub>ATRO</sub>	270 t <sub>ATRO</sub>
Wood chip quality:	Size G30 to G40 Max. moisture content: 13 % (ideal: < 8 %) Max. fines (< 4 mm grain size): 30 %	
Electrical output		
Voltage / Frequency	400 V / 50 Hz	
Heat output		
Feed / return temperature	max. 85°C / max. 60°C	
Dimensions		
Wood gasifier (LxBxH)	5.272 x 1.540 x 2.300 mm	
Dimensions		
CHP unit (LxBxH)	2.600 x 924 x 2.196 mm	

\*Depending on the quality of the wood chips

We will gladly determine your personal benefits from the use of a wood cogeneration plant for your application. Please do not hesitate to contact us:

**Support hotline: + 49 (0) 8773 707 98 - 288**

For further information, go to: [www.holz-kraft.de](http://www.holz-kraft.de)

Spanner wood gas generator