



SCHNELL Motoren AG

SCHNELL

Company profile

SCHNELL Motoren AG is the leading manufacturer worldwide of dual fuel CHP units for biogas plants. The SCHNELL dual fuel engines based on the diesel engine technology generate energy from weak gas such as biogas, sewage gas or landfill gas. Using the cogeneration principle, energy is converted into electricity and heat.

The development, production, quality control and shipment of SCHNELL dual fuel engines are carried out at the company's headquarters in Amtzell, Baden-Württemberg. The units are based on the engines of Sisu, Scania and Mitsubishi, and are available in an electrical power range from 40 kW to 1.6 MW. They stand out on account of their particularly high efficiency and long service life. A key reason for the high efficiency of the units is the electronic fuel injection technology developed by SCHNELL. It responds to the fluctuations in the biogas and controls the optimum injection point. Another innovation to increase efficiency is a gas turbine to utilize the thermal energy present in the exhaust gas. In combination with the gas turbine, a 256 kW unit can achieve an efficiency of up to 48.3%*. SCHNELL offers complete biomass gasification systems from 120 kW – 800 kW with systems for the thermochemical gasification of biological matter such as digestate, wood and dried sewage sludge. The continuous research and development is focused on increasing energy efficiency, and this is given major importance in the company with ten percent of the workforce involved.

Since its founding in 1992, SCHNELL has supplied over 3,000 units in over 20 countries on four continents. Germany, the world's largest market for biogas plants, is the most important market. SCHNELL dual fuel units are supplied to builders of complete systems, as well as directly to agricultural operators of biogas plants. They are either integrated in existing engine rooms or are connected as a ready-to-use container solution. Over 100 in-house service personnel form an extensive service network together with SCHNELL-certified partners. The company's own academy provides company employees, service personnel, as well as customers and plant operators with training courses and further seminars. The company has over 350 employees in the branches in Rodewald in Lower Saxony and Bruntál in the Czech Republic.

The founder, Hans-Jürgen Schnell, is at the head of SCHNELL Motoren AG. Already in his student years he developed a complete biogas plant on his parents' farm.

A groundbreaking factor in the company's success was its decision in 2001 to concentrate on its core expertise – the construction of CHP units with fuel injection technology. For its future strategy, SCHNELL is expanding its international business more intensively, as well as adding a broader product range with larger units to its product portfolio.

* in accordance with ISO EN 3046, tested by the Deutsche Landwirtschafts-Gesellschaft (DLG, German Agricultural Society) in the Focus Test 10/10

Facts & figures

Sector	Renewable energies
Products	- Dual fuel CHP units for biogas, landfill gas or sewage gas, as well as electricity generation from vegetable oil - Biomass gasification systems
Innovations	- Electronic injection technology - Gas turbine in the exhaust gas line - Biomass gasification systems for biological matter, e.g. wood, digestate and dried sewage sludge
Awards	2005: Innovation prize of the Ravensburg district through the Wirtschafts- und Innovationsförderungsgesellschaft 2006: VR Innovation prize for SMEs 2006: Innovation prize of the State of Baden-Württemberg: Dr. Rudolf Eberle Prize 2007: Hermes Award Top 5 2010: Focus Test of the Deutsche Landwirtschafts-Gesellschaft (DLG, German Agricultural Association): 48.3% electrical efficiency
Total turnover	89 mill. euros (2010)
Employees	Over 350
Sites	- Headquarters with development, production, quality control and shipment in Amtzell, Baden-Württemberg - branch in Rodewald, northern Germany - branch in Bruntál in the Czech Republic
Service	Extensive service network consisting of over 100 in-house service personnel and service partners

Milestones

1992	Hans-Jürgen Schnell founded the company on his parents' farm.
2001	Schnell concentrates on its core expertise – the construction of CHP units with fuel injection technology
2006	- Construction of new company buildings in Amtzell with an area of over 16,000 sq m - Establishment of a branch in Lower Saxony, northern Germany
2010	Shipment of the 2,500th SCHNELL unit - total installed power 500 MW
2011	- Change of company name to SCHNELL Motoren AG - Opening of a new SCHNELL service center in Rodewald, northern Germany - 3,000th CHP unit delivered

Date November 2011

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SCHNELL Motoren AG

Headquarters: Hugo-Schrott-Straße 6, D-88279 Amtzell
Commercial register court: Ulm district court HRB 621140
Board: Hans-Jürgen Schnell (Chairman)
Wolfram Dreier, Dirk Gutt, Peter Martetschläger
Chairman of supervisory board: Prof. Dr. Tobias Hüttche

Postal address

Postfach 11 52
D-88277 Amtzell
www.schnellmotor.de
info@schnellmotor.de

Head office address

Felix-Wankel-Straße 1
D-88239 Wangen im Allgäu
Tel. +49-75 20 96 61-0
Fax +49-75 20 53 88

Service address

Hugo-Schrott-Straße 6
D-88279 Amtzell
Tel. +49-75 20 92 09-0
Fax +49-75 20 92 09-149

North Germany Branch

Alte Celler Heerstr. 1
D-31637 Rodewald
Tel. +49-50 74 96 18-0
Fax +49-50 74 96 18-201