



ENCYCLOPAEDIA OF GERMAN GLOBAL WORLD MARKET LEADERS

The hidden champions of the German industry
published by Florian Langenscheidt and Bernd Venohr

SPECIAL EDITION

Amphenol

Amphenol-Tuchel Electronics GmbH



The German subsidiary of the multinational corporation is headquartered in Heilbronn.

AMPHENOL-TUCHEL ELECTRONICS

Amphenol-Tuchel Electronics GmbH is a subsidiary of the US-based Amphenol Corporation, the second largest manufacturer of electrical connectors worldwide. The company is located in Heilbronn, Germany, and holds a leading position in the market for plastic circular connectors, high current connectors, airbag connectors and hybrid connectors, along with SIM card readers used in mobile telephony. Its customers include global suppliers in machinery, plant and equipment sectors in machinery, plant and equipment sectors, such as textile manufacturing systems, packaging machinery or printing presses, its connectors are also used in data and signal processing applications in communication equipment. They are integrated not only in chip card readers for payment systems and in speed recorders (tachographs) for trucks, but also in portable devices such as mobile phones, tablet PCs and GPS systems. Through its worldwide presence, Amphenol-Tuchel works in close collaboration with its customers on a local basis to produce customized connector solutions. Its development facilities in Heilbronn, the USA, India and China conduct continuous research, which contributes significantly to the company's extensive expertise in the field of connectors for high current transmission in harsh environments. Product miniaturization represents another



This graphic representation illustrates typical connector applications using the example of a tractor.

core technical competence. The company looks confidently to the future, specifically targeting the growing markets of electromobility, regenerative energy and automation technology. Ulrich Tuchel founded Tuchel-Kontakt GmbH in Heilbronn in 1955. Right from the outset, the company focused on the production of electrical connectors. In 1967, following its acquisition by Amphenol-Borg

MILESTONES

1955 Ulrich Tuchel establishes Tuchel-Kontakt GmbH in Heilbronn in 1955.

1967 Following its acquisition by Amphenol-Borg GmbH, the business is renamed Amphenol-Tuchel Electronics GmbH.

1980 The company supplies connectors for the first serial production airbags.

1984 A patent application is filed for SmartCard connectors for chip card contact applications.

1986 The current parent company, Amphenol Corporation, is established.

1988 Amphenol-Tuchel patents a SIMLOCK reader assembly for SIM card contact applications.

GmbH, the business was renamed Amphenol-Tuchel Electronics GmbH. The company started to become more involved in the automotive industry with its first airbag connector designs in 1974. The patented SmartCard connectors for chip card contact applications were added to the company's product portfolio in 1984. The parent company Amphenol Corporation was established two years later. Today Amphenol-Tuchel Electronics GmbH operates production facilities in Germany, the Czech Republic, Tunisia, Mexico, India and China. It also has subsidiaries located in France and the USA. With 2,600 employees worldwide, the company generated 80% of its sales through export business in 2010.

FACTS AND FIGURES

Products: Electrical connectors and cable assemblies

Employees: 2,600 worldwide (2010)



Amphenol-Tuchel connectors are used to illuminate the Eiffel Tower.

Locations: Development centers in Heilbronn (Germany), the USA, India and China; manufacturing facilities in Germany, the Czech Republic, Tunisia, Mexico, India and China; additional subsidiaries in France and the USA.

Export share: 80%

Founded by: Ulrich Tuchel in 1955, in Heilbronn (Germany)

Owned by: Amphenol Corporation of Wallingford, Connecticut (USA)

General managers: John Treanor (Automotive), Dr. Christian Ellwein (Industry), Cyril Damnon (Mobile)

CONTACT

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IN A NUTSHELL: RADSOK® HIGH CURRENT CONTACTS



Radsok® high current contacts are electrical connectors which are specially designed for the connection of electrical and electronic components in heavy-duty applications. They play a major role in the design of electric cars, for example. The growing number of electrical components used in vehicles is leading to increasingly demanding specifications, which can easily exceed the limits of conventional connector technologies. For these applications, Amphenol-Tuchel Electronics GmbH offers Radsok® a new

generation of power connectors which are already able to meet tomorrow's needs today. Their so-called hyperbolic construction provides many advantages. Connections can be made up to 75% faster than with a screwed connector, for example. Along with contact coverage of up to 65%, these connectors also take care of absorbing vibrations and guarantee the permanent stability of the contact elements. They are perfectly able to withstand high mating cycles for current transmission values of more than 300 A.



The connectors are supplied in different product lines for the Industry, Automotive and Mobile Telephony sectors.