Technology with drive

a member of the ATB group
Since the foundation of the company in 1882, the name SCHORCH has stood for high-quality electrical machines. With numerous drive systems supplied worldwide SCHORCH is your competent partner for your national and international projects.

SCHORCH is a modern, market-oriented supplier of many different types of industry, e.g. oil & gas, chemical/petrochemical industry, energy generation, water supply and waste water management, shipbuilding, steel and metal processing industry, test stands, tunnel applications etc.

In all these applications, our tailor-made products and systems have, time and again, met the highest requirements in view of both quality and reliability.

It has always been our aim to design and construct innovative products to the highest possible quality standards, fully meeting our customers’ requirements, with due regard to the protection of the environment.

Our tailor-made drive concepts give you the competitive edge – worldwide.

Company Profile
Employees ~500
Year of foundation 1882
Ownership – Member of ATB-Group (Austria)

Key markets
- Oil & Gas
- Petrochemicals & Chemicals
- Power Generation
- Steel & Metal
- Water Supply & Irrigation
- Shipbuilding
- Material Handling & Recycling
- Test Stands
- Tunnel Building

Portfolio
- Asynchronous Machines - Low voltage up to 4,800 kW
- Asynchronous Machines - High voltage up to 25,000 kW
- Drive Systems and System Engineering
- Maintenance and repair service
Worldwide engagement for more than 130 years

Progress is based on know-how, paired with courage and vision. For more than 130 years, SCHORCH has always looked forward into the future and kept abreast of the technical development in general and that of electrical machines in particular.

The result is the enduring high quality of our products.

Chronology

1882 Foundation of the company Max Schorch & Cie, Rheydt. Manufacturing of wiring accessories, arc lamps, dynamos, planning and delivery of electrical equipment

1900 The company is converted into a joint stock company. SCHORCH specializes in the manufacture of electrical machines.

1925 Majority of shares Deutsche Continental-Gas Gesellschaft of Dessau

1959 SCHORCH, together with other electrical firms, is merged into the Continental Elektroindustrie AG.

1990 SCHORCH - a subsidiary of AEG Aktiengesellschaft, Berlin and Frankfurt

1995 SCHORCH GmbH is separated into AEG-Schorch Transformatoren GmbH (legal successor) and Schorch Elektrische Maschinen und Antriebe GmbH

1996 Schorch Elektrische Maschinen und Antriebe GmbH becomes a subsidiary of Eleks Elektroholding GmbH, Frankfurt

2001 Schorch Elektrische Maschinen und Antriebe GmbH is acquired by Lindeteves-Jacobberg Ltd., Singapore

2006 ATB Austria acquires the majority of shares in Lindeteves-Jacobberg Ltd., Singapore

2010 Schorch Elektrische Maschinen und Antriebe GmbH becomes a subsidiary of ATB AUSTRIA Antriebstechnik AG

2012 130th anniversary of SCHORCH

2012 Rebranding of Schorch Elektrische Maschinen und Antriebe GmbH to: ATB Schorch GmbH
Low-voltage Asynchronous Machines up to 4,800 kW

We supply surface-ventilated, water-cooled and internally ventilated low-voltage cage induction machines in standard and special designs. Our machines are characterized by high efficiency, low noise level, reliability and ease of maintenance. The use of paint systems with long-term corrosion protection renders these machines suitable for almost any application.

**Design features**
- Degree of protection from IP23 to IP65
- Single and change-pole speeds
- Types of protection Ex e, Ex n, Ex d, for ambient temperatures as low as – 50º C
- Converter-controlled machines
- Energy-saving designs (optimised efficiency)
- High-speed drives up to 15,000 rpm, 1,000 kW
- Motors for various marine applications to regulations of international classification societies
- Special designs

**Examples for applications**
**Motors:**
- Pumps
- Compressors
- Fans, Smoke and heat exhaust fans
- Test stands
- Presses
- Crunchers
- Mills
- Cryo-compressors
- Kneaders/Agitators
- Bow rudder pumps
- Industrial furnaces
- Cranes

**Generators:**
- Small hydro power stations
- Combined heat and power stations

1) Motor 90 kW, 400 V, 2,975 rpm, IP55, IM B35, compressor drive
2) Motors 160 kW, 400 V, 1,485 rpm, IP55, IM B3, driving pumps
3) Motor 885 kW, 690 V, 1,195 rpm, IP55, V1, water-cooled, converter-fed, ship propulsion
4) Motor 375 kW, 460 V, 3,972 rpm, (max. 9,000 rpm), IP23, IM B35, converter-controlled drive of an engine test stand
5) Motor 12 – 30 – 75 kW, 440 V, IP55, driving cooling-water pumps on board ship
6) Motor 280 kW, 400 V, 759 rpm, IP55, IM V6, water-cooled, asynchronous hydro generator
7) Motor 2,500 kW, 690 V, 1,789 rpm, IP55, IM B3, converter-controlled drive of a transmission test stand
Our high-voltage asynchronous machines are available as surface-ventilated or tube-cooled machines or in a modular design which can be adapted to all customary degrees of protection and cooling methods.

These machines are characterized by high efficiency and low noise level, ease of maintenance and long service life. They are fitted with short-circuit and shatter-proof terminal boxes. The sturdy design can be adapted to a wide range of applications. Windings are insulated, using the well-known VPI method.

The design of our high-voltage asynchronous machines is the result of a long and close cooperation with manufacturers, engineerings and users of all types of driven machines.

The design can be adapted to suit almost any application e.g. severe site and operating conditions, including hazardous areas.

**Design features**
- Ribbed frame
- Tube-cooled, internally ventilated or indirectly water-cooled
- Types of protection Ex n, Ex e, Ex p, Ex d
- Vibration- and shock resistant designs
- Low noise designs
- Degrees of protection IP23 and IP55

**Examples for applications:**
- Compressors
- Pumps
- Fans/Blowers
- Shredders
- Agitators
Frequency converters are used for continuous, low-loss speed control of three-phase motors and form together with the motor a variable-speed system. The use of state-of-the-art digital electronics makes for precise speed control, ease of start-up, diagnosis, indication, signalling, operation, and fault memory. Communication with PLC and higher-level automation systems is possible via diverse interfaces.

Design features
- Degree of protection IP20, IP23 and higher
- Low voltage and high voltage
- Frequency converters for the control of three-phase motors up to 20 MW
- Built-in converters or cubicle units

Tailor-made drive systems from only one supplier
SCHORCH offer tailor-made drive systems for a wide range of applications with reliable and safe speed control of almost any size and type of drive.

Examples for applications:
- Compressors
- Pumps
- Fans
- Test stands
Maintenance and Service

World-wide service network

Our international sales and service network offers to our partners fast and easy access to our support and maintenance service – no matter where, no matter when. This expert service also extends to products of other manufacturers.

Range

- Erection and commissioning, including off-shore
- Preventive maintenance and repair
- Shut-down service
- Problem analysis and repair planning
- Machine diagnosis
- Refurbishing of older machines
- Operator training (in our company or at site)
- Supply of spare parts
- Repair workshop with 80 t crane capacity
- Service hotline

Our expertise – your advantage

Our experts are available – worldwide – to assist you in project analysis and planning and in finding the most economical solution to any given drive problem.
Quality – the basis of trust

Our QA system is constantly updated to comply with the latest rules and regulations of DQS (003823 QM), PTB (PTB 99 ATEX 0008), TÜV (TÜV 08 ATEX 554310 Q) and BSi (FS528512/2034S).

This is in line with our company philosophy to ensure that our products always meet the highest requirements.