ATB Riva Calzoni was established in 2003 by merging the knowhow, the experience, the technological capabilities and the facilities of Acciaieria e Tubificio di Brescia (ATB) and Riva Calzoni Impianti (Riva Calzoni).

ATB was established in 1934 through the merger of the workshops, drawings, designs, patents and trademarks of “Società Italiana Tubi Togni” established in 1903. Riva Calzoni operated under different names since 1834 in the design, manufacturing and installation of equipment for hydraulic and hydroelectric power plants.

The two companies had operated for more than 100 years in the business of design, manufacturing and installation of mechanical equipment for various industrial applications. Since then, ATB Riva Calzoni expanded continuously to meet the increasing needs of components for the energy sectors.

ATB Riva Calzoni operates today in the following business sectors:

- **OIL & GAS**
- **HYDROPOWER**
- **NUCLEAR**
- **RENEWABLE**
Wind power division of ATB Riva Calzoni was formed in 2011 to serve the market for under MW wind turbines by acquiring wind turbine technology licenses from S&G Engineering GmbH. Our products are a well-proven German wind turbine design with excellent performances documented through several years of field operation. The turbine incorporates state of the art technologies at the forefront of current wind power generation systems.

ATB Wind Turbine Technology

With a state-of-the-art pitch control system, an oversize rotor to capture more energy at lower wind speeds, and the latest breakthroughs in wind turbine design efficiency, each ATB model fulfills the demand for a reliable and high performing wind turbine.

Bankable and Investment Ready

In a continuously changing market, strength of covenant and manufacturer warranties and service have become key to finance wind energy projects. ATB provides an end to end service in the manufacture, construction, operations and maintenance of ATB turbines, providing complete accountability and a high degree of reliability with its ATB Wind Service lifetime plan. Technical excellence and customer focused support, put our products at the top of the market sub-megawatt.
High Efficiency

Every ATB wind turbine is built to the highest standards of engineering, performance and quality. ATB has developed highly efficient wind turbine technology reaching the rated output power at lower wind speed than most available models and allow ATB wind turbines to be known as “best-in-class” in the sector.

Reliability

Engineering excellence and exhaustive testing are the cornerstones of our wind turbine design, production and deployment process. Throughout initial design and subsequent revisions, all of our models are manufactured to ensure our customers can count on their turbines over a 20-year lifespan.

Advanced Pitch Control

ATB wind pitch control system automatically adjusts synchronously the pitch to optimize efficiency. The blade adjustments are made extremely quickly, reacting to changes in wind conditions in around a 10th of a second.

Remote Monitoring

The remote control allows users to remotely monitor their turbine’s operational status, live energy production, wind speed and power output. The operating parameters data stored in the control unit of the wind turbine are constantly monitored and automatically adjusted during operation. The parameters are tuned to each site to ensure the safe and automatic operation of the wind turbine in all situations.

Safety

When the turbine control system detects any fault, such as high wind or a grid power loss, the pitch system activates, rotating the blades and safely stopping the turbine. In addition a mechanical parking brake supports the aerodynamic brake and brings the rotor to a standstill until the condition is cleared.
Products description

All ATB wind turbines have been designed according to IEC 61400 and are classified under Class III A. ATB wind turbines are built according to the concept of variable speed synchronous generator with full converter system and hydraulic pitch control. That concept is characterized by maximum energy yield and high efficiency.

The sophisticated power converter concept allows powerful and rapid active and reactive power control, and thus creates the conditions to maintain network stability. Furthermore, the system has excellent properties when passing through voltage dips during grid faults (fault ride-through).
Warranties and O&M services

ATB offers for all wind turbines a standard 5-year warranty on parts and labor and a 95% Warranty on Power Curve. In addition, ATB guarantees the 95% technical availability with a fully comprehensive operations and maintenance contract, providing operations and maintenance cover for the expected lifetime of each ATB wind turbine.

ATB Wind Service Contract includes

- 95% Technical Availability Warranty
- 95% Warranty on Manufacturer’s Power Curve
- Business Interruption Insurance
- Preventative, proactive and reactive maintenance in line with ATB optimum maintenance and operation procedures.
- Service contract up to 5 years