

BTU
TECH

**CARBON SPREADER
RETROFIT SYSTEM**

www.btu-tech.com

DESCRIPTION & FEATURES

Carbon fiber spreader lines play a critical role by producing the spreaded fiber tapes input used in multiaxial and UD, non-crimp carbon fabric production.

Many offline spreaders installed over the past decades still remain mechanically functional, but aging automation systems, obsolete electronics and limited spare part availability increasingly affect reliability, productivity and serviceability.

BTU-TECH Carbon Spreader Retrofit System upgrades existing spreading lines with a modern automation platform, new electrical architecture and readily available industrial components while preserving the machine's proven mechanical structure.

The retrofit improves reliability, simplifies maintenance and prepares the line for future production requirements.



Carbon-Proof Dual Compartment Electrical Cabinet: A newly engineered dual-compartment electrical cabinet provides maximum reliability in carbon fiber production environments.

Drive Compartment:

- Never to be opened compartment for servo drives
- Remote parameter change from HMI for servo drives
- Optimized thermal management
- Service access without exposing sensitive electronics

Control Compartment:

- PLC, communication modules & low-voltage electronics
- Protected from conductive carbon dust
- Reduced risk of short circuits and contamination
- Better system reliability & longer part

Advanced Motion Control:

Powered by Schneider Electric motion technology

- High-performance synchronized motion control
- Improved positioning accuracy
- Smooth machine operation
- Faster response times
- Optimized production performance
- Stable long-term operation



User-Friendly Operator Interface: The new touchscreen interface has been developed with machine operators in mind.

Features include:

- Intuitive graphical interface
- Easy recipe and parameter management
- Fast production setup
- Independent enable/disable of every machine axis
- Maintenance and diagnostics screens
- Alarm history and troubleshooting information
- Password-protected service functions

Machine adjustments that previously required engineering support can now be performed quickly by trained operators.





Remote Service & Digital Connectivity: It is built for Industry 4.0. The system supports:

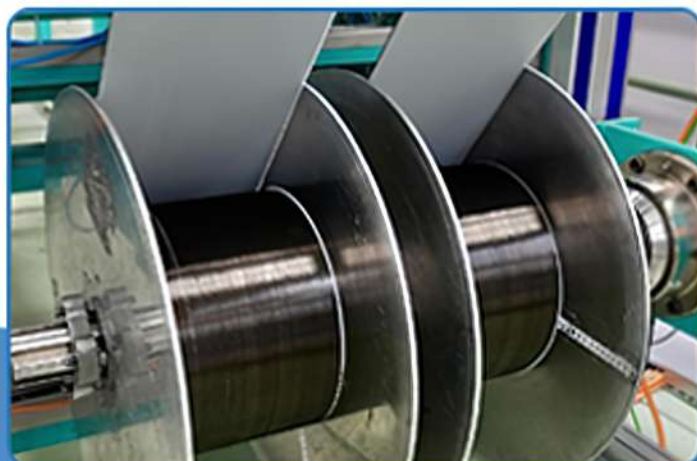
- Remote diagnostics
- Remote software updates
- Remote commissioning assistance
- Online troubleshooting
- Parameter backup and restoration

Industrial Communication: Designed for seamless factory integration. Supports industrial communication protocols for:

- Machine-to-machine communication
- Factory automation systems
- Production monitoring
- Data acquisition
- Parameter sharing

PERFORMANCE ADVANTAGES

- Eliminate obsolete electronics
- Worldwide availability of Schneider parts
- Lower maintenance costs
- Increased machine uptime
- Improved production reliability
- Easier operation
- Faster troubleshooting
- Future-proof automation platform
- Long-term software support
- Improved electrical safety
- Reduced downtime
- Extended machine lifetime



ABOUT BTU

BTU-TECH was founded in 2020 as a start-up company for engineering, design and manufacturing of machines and technologies for variety of industries, such as textile and composites.

As the main shareholder and CEO of the company, Burçin Pak received investment for the company. In addition to his 20+ years in microelectronics, communication and machinery which includes many patents and awards for the developed technologies, together with its investors, the company has a total of 60 years of experience, covering industries such as heavy duty machinery & transport equipments, robotics, microelectronics, IOT, industrial textiles.

The company has a talented core team for analysis, engineering, design, quick prototyping and serial production. The inhouse capabilities and skills are 3D modelling, FEA, programming and industrial automation.

Based in Istanbul, Turkey, BTU-TECH is aiming to serve customers globally both by direct contact and via technical partners.

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BTU Makine ve Teknoloji Sanayi Ticaret A.S.

Kaya Sultan Sk. H. Bagdatlioglu Is Mrkz. No:81 A

34742 Kozyatagi, Kadikoy / Istanbul / TURKIYE

P: +90 216 410 40 00

E: info@btu-tech.com



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