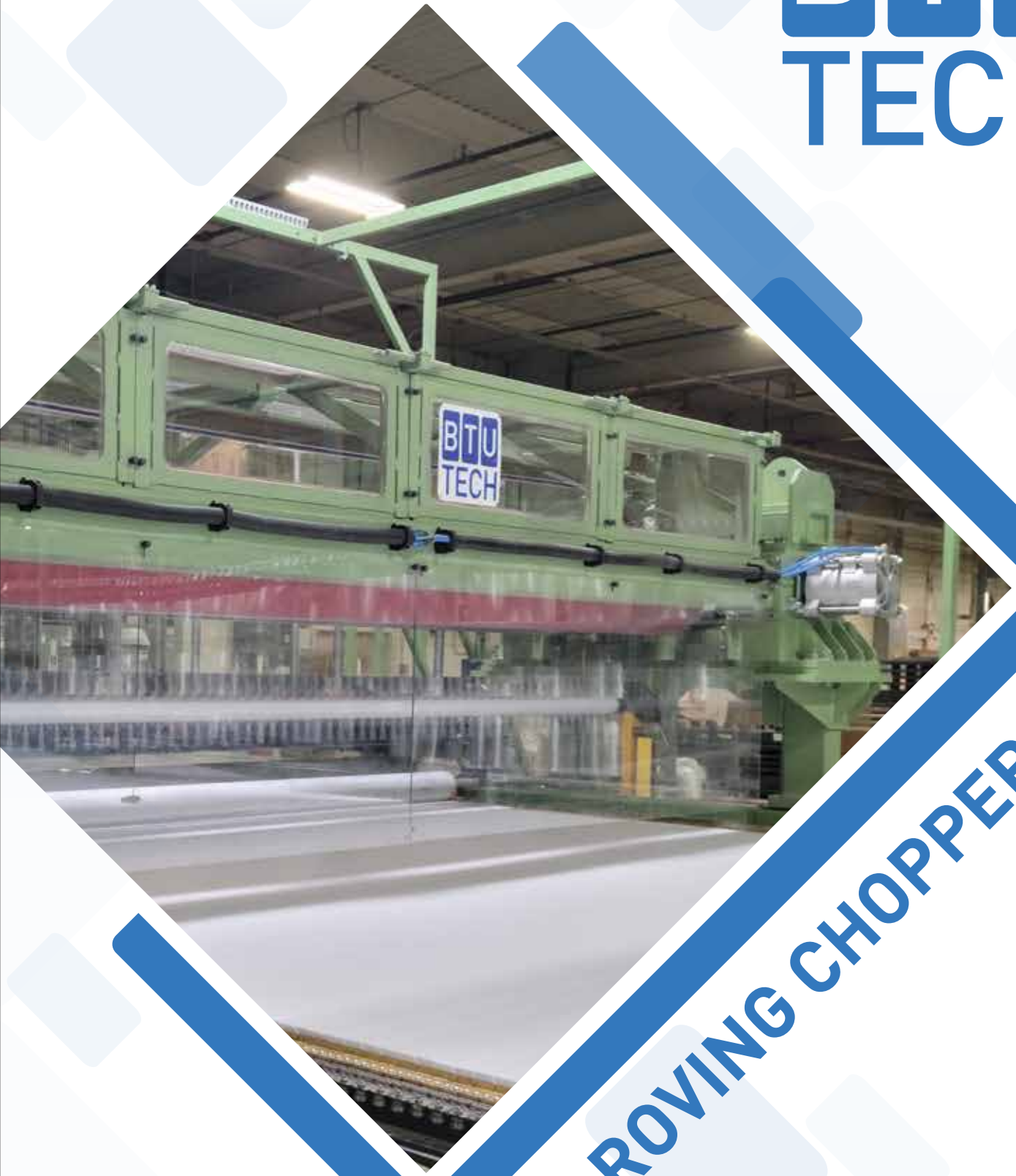


**BTU
TECH**



ROVING CHOPPER

ROVING CHOPPER SPECIFICATIONS

Working Width	50", 100", 108" or 130"
Material	Multiend chop glass rovings
Chopped Strand Length	50.8 mm (2") or 101.6mm (4")
Number of Strand	Up to 130 pcs
Rovings	Up to 4800 tex
Distance Between Rovings	27 mm
Knife Roll	Hard chromium plated
Blades	Standard steel band with 8 mm height
Carbon Brushes	To discharge static electricity for all rolls
Contact Roll	290 mm PU coating, regrindable down to 270 mm
Pressure Roll	Hard chromium plated
Roving Wrap-Around Sensors	Below mm accuracy position sensors
Roving Feeding Bar	Roving guidance device with oscillating motion
Piker Roll	Achieves better strands distribution with programmable speed
Blower	For continous cleaning of the rolls by using compressed air
Static Electricity Elimination System	For neutralisation of static electricity of the rovings
Speed Signal	Incremental encoder, analog (0-10V or 4-20mA), digital speed data.
Pneumatics	FESTO
Electronics & Drives	Schneider
Motors	Watt Drive (WEG)
HMI	7.5" Touchpanel with multiple language interface
Voltage	380-480VAC
Frequency	50-60Hz
Power	15KW
Air	4-10bar
Protection Class	IP54 min
Certifications	CE



For SMC operations or chopped strand mat combined multiaxial or woven fabric production, a roving cutter machine is necessary. This machine is supposed to work in synchrony with the main line whether it is an SMC line or a knitting line.

BTU-TECH developed a robust, reliable, safe and operator friendly roving chopper machine for this purpose.

The BTU-TECH glass chopper design features are as follows:

Knife Roll

A hard-chromium plated roll with spiral grooves ensuring only one roving is cut at a time to reduce roving-blade pressure. The knife roll is driven by a frequency inverter controlled motor and its rotational speed is automatically adjusted by the set number of rovings, tex, fabric width and desired areal weight from the touch panel.

Contact Roll:

Special PU-coated 290mm roll that can be regrinded down to 270mm . Driven by 2 pneumatic cylinders with programmable contact-knife rolls pressure that defines blade-roving cutting pressure.

Roving Pressure Roll:

A hard-chromium plated roll presses the rovings to the contact roll for feeding. The pressure is adjustable. To detect roving wrap around, the cylinders pushing/pulling the roving pressure roll, have linear position sensors that have below millimeter accuracy.

Roving Feeding Bar:

An oscillating bar which has an adjustable frequency, guides the rovings to the pressure roll ensuring the homogeneity of the CSM and that each cutting takes place on a different spot on the contact roll.

Piker Roll:

To achieve a better CSM distribution, a piker roll with adjustable rotational speed and speed curve is implemented.

Anti-Static Systems:

A special system with ions spreading bar for rovings and carbon brushes for rotating parts are used to discharge static electricity.

Blowers:

Pressurized air blowers with adjustable speed are used to keep the knives and the contact rolls clean.

HMI:

All settings and operations can be controlled from the operator touch panel.



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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www.btu-tech.com

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 10

E: info@btu-tech.com



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