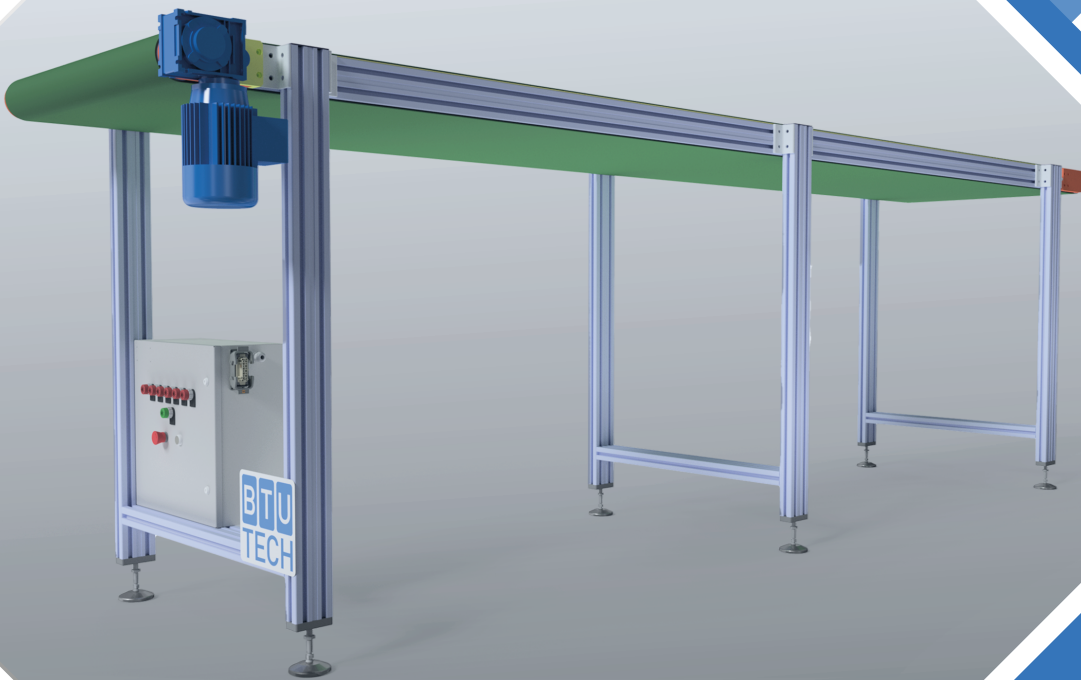


**BTU
TECH**



CONVEYOR FEEDER

DESCRIPTION & FEATURES

CNC fabric cutters require a table or a conveyor system at the exit of the line, to process the cut fabrics. If a table is used, operators need to manually drag the fabrics. When there are many pieces of fabrics, it is not an easy process and may cause wrinkles, deformation and many other issues.

A conveyor system can be used to solve these problems. However, CNC cutters has fast accelerations and decelerations. If the conveyor cannot keep up with accelerations, then wrinkles occur on the fabrics, resulting in uncut material or broken blades. If the conveyor cannot keep up with decelerations, then this may result in too much tension on the fabric which is to be avoided especially for delicate fabrics.

So, a precise speed and tension control in synchronisation with the conveyor motion, is a must in this type of operation.

BTU-TECH offers a motorized conveyor with encoder signal feedback from the CNC cutter.

BTU-TECH “**Conveyor Feeders**” offers following features;



Speed Control: Using an encoder, the linear fabric speed is measured from the CNC cutter and the feeder surface speed follows with extreme accuracy, using servo pulse control.

Tension Control: With fine adjustment of encoder pulses, the fabric tension can be kept constant without using a loadcell or pneumatic dancer.



Manual Control: The conveyor can be manually moved forward or backward with adjustable speed.



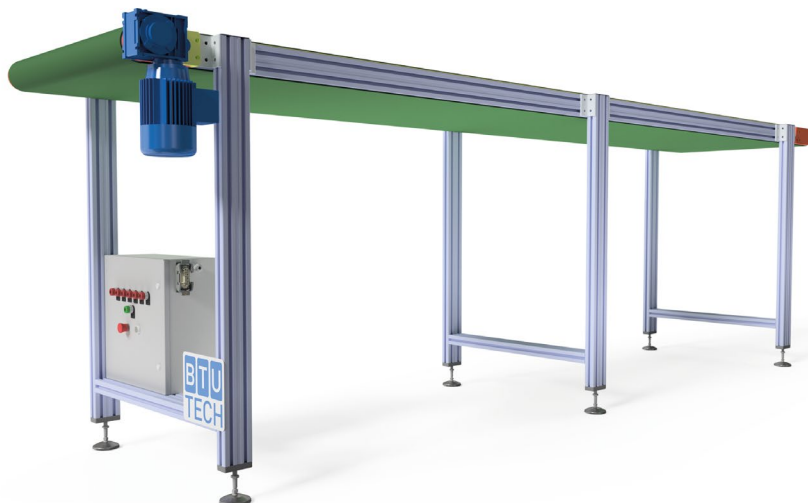
CONVEYOR FEEDER SPECIFICATIONS

| | |
|---------------------------------|---|
| Conveyor Speed | 20m/min (to be set acc. to requirement) |
| Width | Up to 130" |
| Power | 20kW |
| Supply | 50-60Hz, 380-480V, 3 Phase |
| Electric Panel AC Cooling | Yes |
| Electric Panel Protection Level | IP54 |
| Motor Protection | IP54 |
| HMI | 7.5" Touchpanel |
| Certifications | CE |



MACHINE UPGRADE OPTIONS

- IP65 Motors
- IP65 Carbon Safe Electric 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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